

TEST REPORT PH6979A_1
DATE 24/05/2021

ITEM Pierlux DALI Highbay 200W 4000K

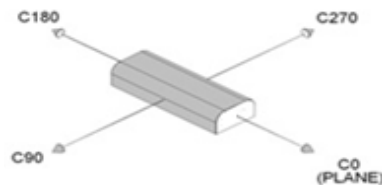
Cat. No. PLHB200WD4

Model. 200W Highbay Refractor installed

CLIENT Pierlite
 96 - 112 Gow Street
 Padstow, NSW 2211

NATURE OF TESTS The product shown above has been tested to specific clauses of the IES LM-79-08

TEST METHOD The luminaire was tested in accordance with the conditions specified in IES LM79-08 section 1 to 13

TEST DEVIATIONS **ADDITIONS OR EXCLUSIONS.**


Section 12 Colour Characteristics manual measurement at nadir.

RESULTS

Photometric Measurements		28997 lm
		142 lm/W
Colour Measurements	CCT	4112 K
	Ra	82.3
Input Electrical Measurements		240 V
		907 mA
		206 W
		0.954 PF
Test Temperature		26.7 °C
Humidity		30 %

COMMENCED 24/05/2021

COMPLETED: 24/05/2021

TESTED BY
 Nick Sais

AUTHORISED SIGNATURE

 George Ebejer

Pierlite Lighting Laboratory Australia

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**Specifications
and
Clause Nos**

Clause Title
(inc. a brief précis of Requirements and Criteria.)

**Actual Results
Assessments
Remarks**

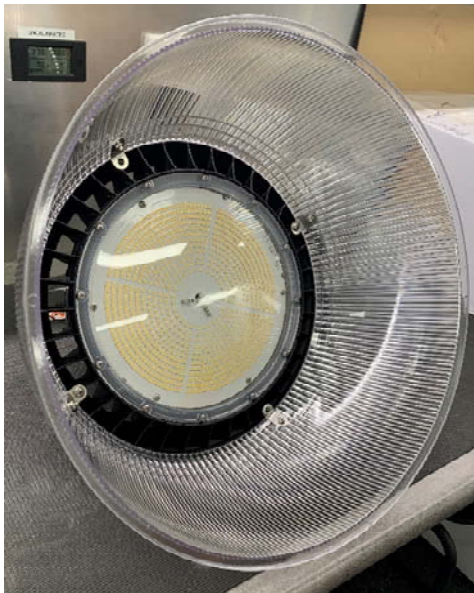
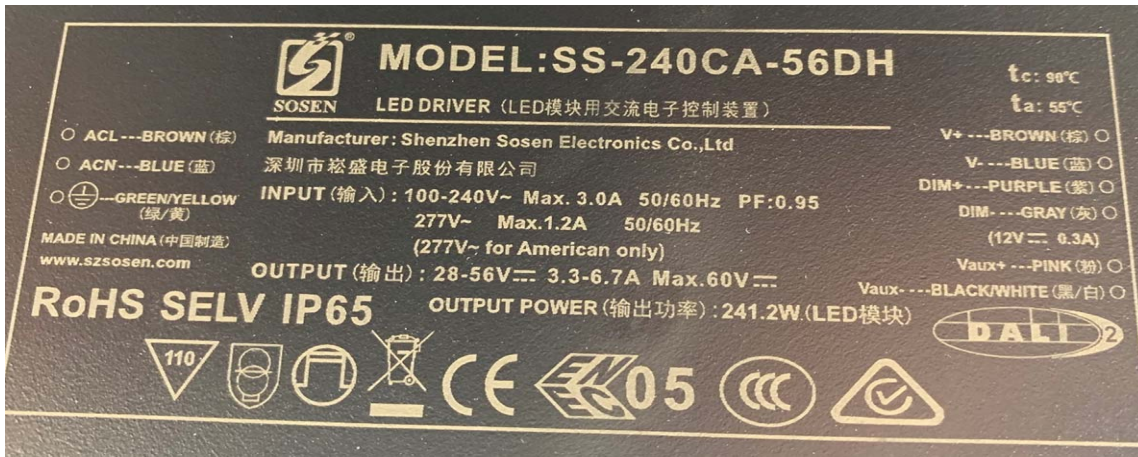
Electrical and Photometric Measurements of Solid-State Lighting Products

Photometric testing using Goniophotometer

2.0	Ambient Conditions 2.2 Air temperature should be between 25 degC +/- 1 degC 2.3 Thermal Conditioning for Mounting may not affect the heat flow away from the device. 2.4 Air Movement - Air flow around the surface may not substantially alter electrical and photometric measurements.	Applied Applied Applied
3.0	Power Supply Characteristics 3.1 Waveshape of AC power supply shall have a sinusoidal voltage with a fundamental harmonic component not exceeding 3 percent. 3.2 Voltage regulation within +/- 0.2 percent under load	Applied Applied
4.0	Seasoning of SSL Product The product shall be tested with no seasoning.	Applied
5.0	Stabilization of SSL Product The SSL product should be operated long enough to reach Stabilization and temperature equilibrium.	Applied
6.0	Operating Orientation Evaluated in the operating orientation recommended by the manufacture	Noted
7.0	Electrical Settings Operated at rated voltage	Applied
8.0	Electrical Instrumentation Measurement of Voltage, Current and Wattage	Applied
9.0	Test Method for Total Luminous Flux Measurement 9.3 Goniophotometer 9.3.1 Type of Goniophotometer - Type C 9.3.2 Principle of Total Flux Measurements 9.3.3 Scanning resolution - less than or equal to 22.5 deg lateral and 5 deg longitudinal 9.3.4 Angle coverage - must measure the light emitting area of the entire SSL product. 9.3.5 Polarization 9.3.6 Photometer head - have a relative spectral response matched to the V(λ) function 9.3.7 Calibration - traceable to national Standard	Applied Applied Applied Applied Applied Noted Applied Applied
10.0	Luminous Intensity Distribution A photometric distance of the photocell greater than 5 times the largest dimension of the SSL product	Applied
11.0	Luminous Efficacy Calculated using lm/W	Applied
12.0	Test Methods for Colour Characteristics 12.2 Method using spectroradiometer manual measurement at nadir.	Limited
13.0	Uncertainty Statement	Applied

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Photographs showing layouts



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Specifications**Luminaire Description**

Description	Pierlux DALI Highbay 200W 4000K	
Catalogue No.	PLHB200WD4	
Model	200W Highbay Refractor installed	
Test mounting	Suspended ceiling mounted	
Lens	Clear	
Luminaire Diameter	410	mm
Luminaire Width	410	mm
Luminaire Height	300	mm
Luminous opening Diameter	410	mm
Luminous opening Width	410	mm
Luminous opening Height	150	mm

Luminaire rated voltage

AC	
240	V
50	Hz

Main LED / Lamp Driver(s)

Manufacture	Shenzhen Sosen electronics	
Catalogue No.	SS-240CA-56DH	
Description	Constant current driver	
Quantity	1	
Setting	3860 Measured setting	
Output	Type	DC
	Voltage range	28-56 V
	Current range	3.3-6.7 A
	Input wattage (max)	241.2 W

Main Driver Output under LOAD

(Measured with LEDs)	49.4	V
	3860	mA
	191	W

LEDs

Chip manufacturer	Data sheet required	
Chip code	Data sheet required	
Chip quantity	1044	
Chip Ts temperature	85	degC (Data sheet required)
Board manufacturer	Data sheet required	
Board code	AL-20-0032-REV-01 (EDQ1719-52-R 18S58P)	
	Rated CCT	4146 K (Measured Data)
	Rated Ra	82.4 (Measured Data)

Diffuser

Manufacture	Data sheet required	
Catalogue No.	Data sheet required	
Description	Clear	
Material	Data sheet required	
Shape	Clear dome	
Quantity	1	

Times

Operation prior to measurements	10	Hours
Stabilisation Time	1	Hours

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Specifications

Total operating time	12	Hours
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Uncertainties of measurements.

All Expanded Uncertainties are with a confidence interval of 95% of measurements including Degrees of Freedom (V_{eff}) using a coverage factor $k = 2$
Estimated uncertainties in measurements for this test are:

Equipment Used

Everfine R5000 Goniometer

Light Output Ratio	+/-	5%
Luminous Intensity	+/-	5%
Luminous Efficacy	+/-	5%
C, Gamma Angles	+/-	0.5 degrees
Photometric Distance (m)		26.00

Stabilised AC Power Supply

Voltage	+/-	0.5%
Current	+/-	0.5%
Power	+/-	0.5%
Power factor	+/-	0.02
Frequency	+/-	0.1 Hz

Yokogawa WT310 Power meter

DC Voltage / Current	+/-	(0.1% of reading + 0.2% of range)
AC Voltage / Current	+/-	(0.1% of reading + 0.1% of range)
Power	+/-	(0.1% of reading + 0.1% of range)
Power Factor	+/-	0.2%
Frequency	+/-	(0.06% of reading)

Spectroradiometer MK350 LED Meter

CCT	+/-	4%
Ra	+/-	3.0%

Q1437 Temperature Meter - K type thermocouple

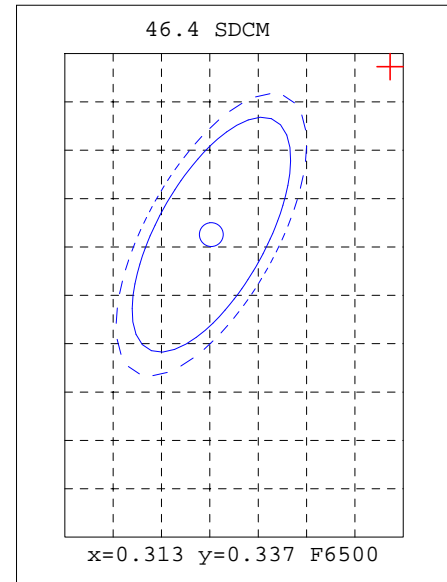
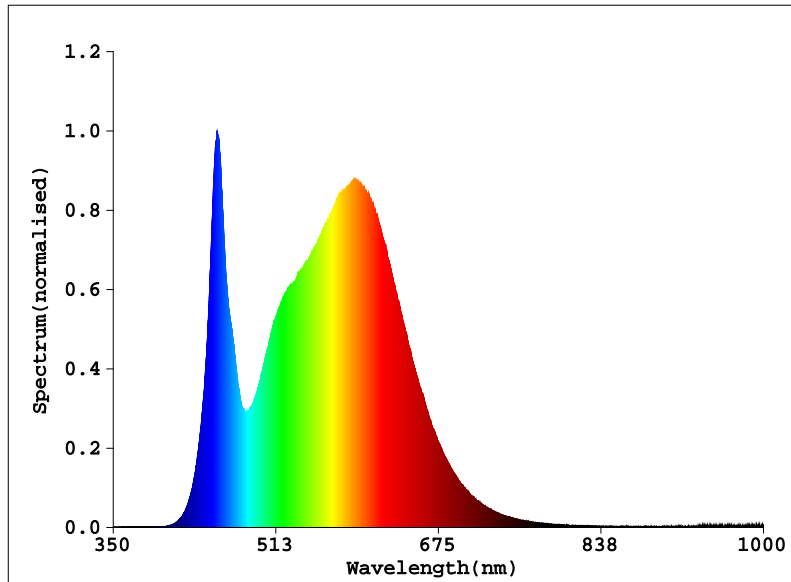
Temperature	+/-	0.1 degree Celsius
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Room Temperature stability

	+/-	1 degree Celsius
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Spectrum Test Report

NAME: PLHB200WD4		
DIM.: LA (m) -.242 x 0.0 x 0.0		
MFR.: Pierlite		



Color Parameters:

Chromaticity Coordinates: $x=0.3765$ $y=0.3772$ $u'=0.2223$ $v'=0.5012$ $duv=0.00139$

Tc=4112K Dominant WL:Ld=577.8nm Purity=26.2%

Ratio:R=17.8% G=78.3% B=3.9% Peak WL:Lp=453.9nm HWL:24.1nm

Rendering Index:Ra=82.3

R1 =80	R2 =90	R3 =96	R4 =79	R5 =80	R6 =86	R7 =85
R8 =62	R9 =3	R10=76	R11=78	R12=59	R13=83	R14=98
						R15=74

Status: T=16.00ms Ip=53315 (81%) [HAAS-2000A(CAN)]

Tester:Nick Sais
Temperature: 26.7Deg
Manufactory:Pierlite

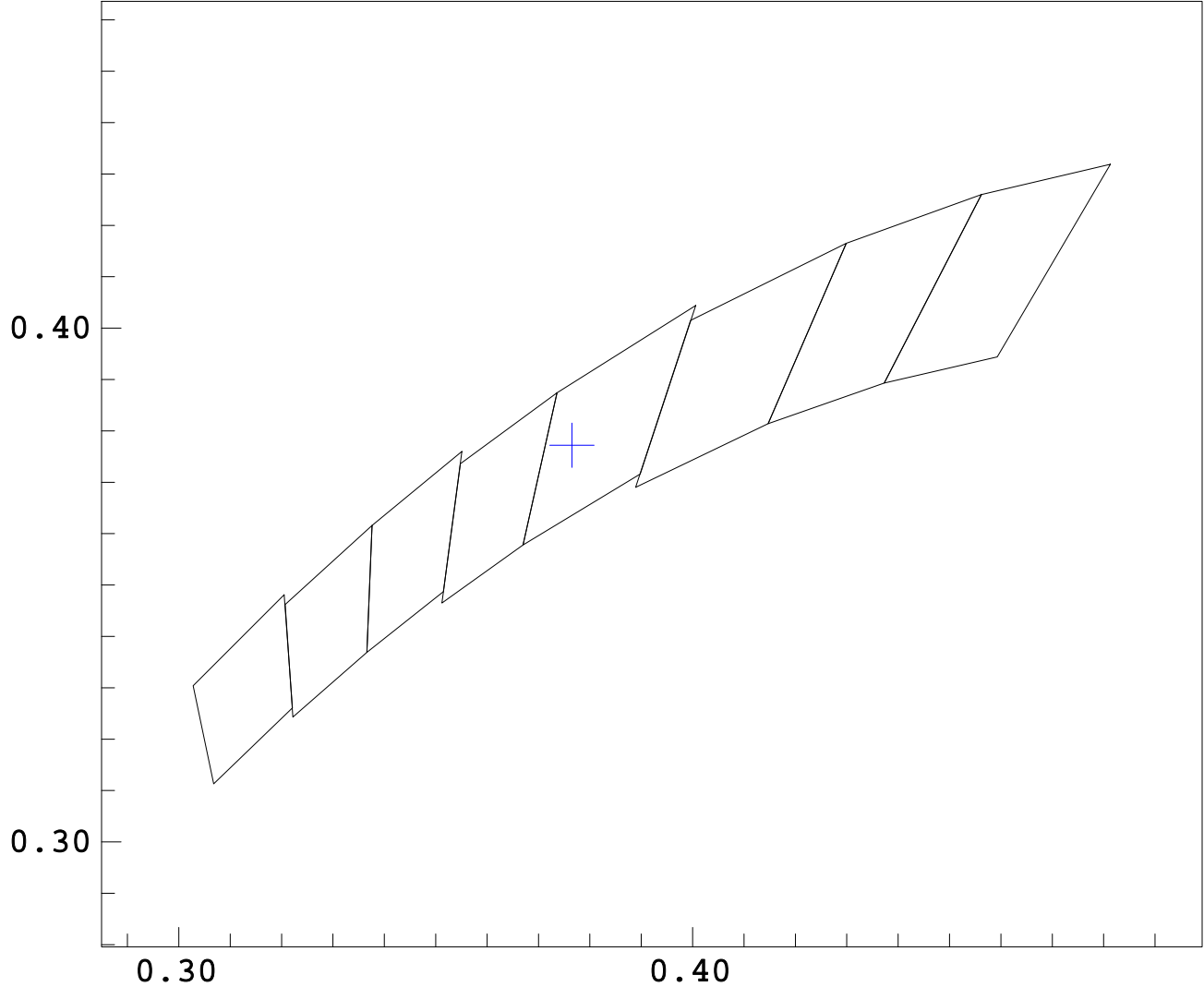
Date:20/05/2021
Humidity:30%
Remarks:Bare fitting 200W

System:HAAS-2000A(CAN)

Standard: ANSIC78-377_White.WCL

CIE x,y: x = 0.3765 , y = 0.3772

CLASS: ANSI_4000K



Tester: Nick Sais
Temperature: 26.7Deg
Manufactory: Pierlite
System: HAAS-2000A(CAN)

Date: 20/05/2021
Humidity: 30%
Remarks: Bare fitting 200W



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PH6979A PLHB200WD4 REFRACTOR.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] PH6979A_1
 [TESTLAB] Pierlite Testing Laboratory
 [DATE] 2021-05-24
 [ISSUEDATE] 2021
 [MANUFAC] Pierlite
 [LUMCAT] PLHB200WD4 - Refractor installed
 [LUMINAIRE] Pierlux DALI highbay 200W 4000K Refractor installed
 [LAMP] Data sheet required 191W at 3860mA
 [BALLAST] SS-240CA-56DH (Shenzhen Sosen Electronics) measured setting 3860mA
 [_ BRAND] Pierlite
 [_ COLOURTEMP] 840
 [_ LUMENS] 28997 lm
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28997
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	203.72
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.44
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Ellipse
Luminous Length (0-180)	0.41 m
Luminous Width (90-270)	0.41 m (Diameter)
Luminous Height	0.15 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17763	18399	18528
55	12434	12852	12854
65	7007	7376	7525
75	4138	4292	4120
85	842	855	821

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PH6979A PLHB200WD4 REFRACTOR.IES

CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000
1	10947.000	10935.000	10900.000	10906.000	10956.000	10958.000	10948.000	10939.000	10930.000	10936.000
2	10955.000	10975.000	10898.000	10918.000	10966.000	10968.000	10984.000	10954.000	10928.000	10929.000
3	10952.000	10964.000	10906.000	10944.000	10959.000	10962.000	10950.000	10912.000	10935.000	10940.000
4	10972.000	10971.000	10921.000	10988.000	11025.000	10993.000	10966.000	10944.000	10945.000	10934.000
5	10999.000	10991.000	10944.000	11011.000	11007.000	11003.000	10988.000	10957.000	10970.000	10968.000
6	11026.000	10978.000	10969.000	11012.000	11044.000	11034.000	11030.000	10964.000	10962.000	10964.000
7	11013.000	11002.000	10938.000	11009.000	11035.000	11056.000	11031.000	11000.000	10993.000	10979.000
8	11072.000	11002.000	10999.000	11045.000	11130.000	11093.000	11074.000	11034.000	11057.000	10986.000
9	11114.000	11104.000	11073.000	11130.000	11123.000	11133.000	11111.000	11041.000	11078.000	11045.000
10	11186.000	11175.000	11137.000	11229.000	11197.000	11171.000	11150.000	11132.000	11135.000	11095.000
11	11242.000	11268.000	11207.000	11307.000	11275.000	11263.000	11247.000	11238.000	11222.000	11142.000
12	11335.000	11325.000	11327.000	11406.000	11379.000	11391.000	11311.000	11265.000	11308.000	11250.000
13	11421.000	11442.000	11409.000	11471.000	11465.000	11440.000	11407.000	11392.000	11389.000	11320.000
14	11498.000	11479.000	11447.000	11536.000	11553.000	11551.000	11516.000	11471.000	11499.000	11434.000
15	11539.000	11540.000	11501.000	11620.000	11561.000	11580.000	11550.000	11550.000	11605.000	11523.000
16	11584.000	11541.000	11521.000	11625.000	11648.000	11636.000	11653.000	11643.000	11652.000	11581.000
17	11606.000	11549.000	11582.000	11611.000	11647.000	11660.000	11682.000	11666.000	11673.000	11663.000
18	11583.000	11566.000	11581.000	11611.000	11652.000	11664.000	11678.000	11692.000	11723.000	11669.000
19	11568.000	11544.000	11553.000	11617.000	11658.000	11668.000	11674.000	11710.000	11712.000	11666.000
20	11544.000	11455.000	11515.000	11577.000	11593.000	11642.000	11679.000	11687.000	11711.000	11642.000
21	11518.000	11428.000	11468.000	11489.000	11596.000	11584.000	11657.000	11672.000	11710.000	11695.000
22	11405.000	11374.000	11395.000	11479.000	11499.000	11519.000	11601.000	11623.000	11631.000	11653.000
23	11341.000	11308.000	11312.000	11391.000	11389.000	11463.000	11527.000	11544.000	11619.000	11612.000
24	11274.000	11207.000	11232.000	11255.000	11305.000	11406.000	11500.000	11508.000	11570.000	11564.000
25	11194.000	11128.000	11116.000	11206.000	11286.000	11350.000	11409.000	11431.000	11473.000	11502.000
26	11115.000	11033.000	11080.000	11121.000	11195.000	11286.000	11346.000	11385.000	11401.000	11416.000
27	11027.000	10933.000	10986.000	11052.000	11128.000	11213.000	11288.000	11328.000	11324.000	11317.000
28	10925.000	10860.000	10928.000	10989.000	11097.000	11156.000	11242.000	11233.000	11281.000	11277.000
29	10850.000	10778.000	10818.000	10899.000	11003.000	11089.000	11132.000	11150.000	11177.000	11235.000
30	10766.000	10728.000	10737.000	10829.000	10933.000	10987.000	11073.000	11079.000	11124.000	11112.000
31	10665.000	10645.000	10659.000	10722.000	10818.000	10872.000	10959.000	10998.000	10991.000	11005.000
32	10571.000	10571.000	10573.000	10620.000	10762.000	10779.000	10853.000	10918.000	10931.000	10900.000
33	10482.000	10492.000	10449.000	10527.000	10657.000	10720.000	10770.000	10775.000	10780.000	10788.000
34	10400.000	10348.000	10340.000	10413.000	10539.000	10597.000	10603.000	10654.000	10671.000	10666.000
35	10235.000	10240.000	10234.000	10298.000	10457.000	10421.000	10485.000	10501.000	10564.000	10469.000
36	10111.000	10088.000	10116.000	10141.000	10289.000	10261.000	10364.000	10326.000	10383.000	10328.000
37	9919.200	9949.300	9943.900	10007.000	10106.000	10119.000	10157.000	10132.000	10212.000	10165.000
38	9722.400	9730.600	9803.300	9863.200	9928.000	9923.400	9966.300	9957.000	9995.800	10001.000
39	9450.200	9447.400	9518.800	9614.200	9716.500	9684.400	9719.300	9711.600	9740.900	9733.700
40	9127.400	9131.300	9247.900	9331.800	9469.300	9425.000	9437.600	9413.100	9405.200	9477.900
41	8804.600	8841.400	8949.200	8994.000	9110.700	9061.100	9095.600	9069.900	9097.700	9129.800
42	8489.600	8505.400	8607.700	8646.800	8766.700	8687.500	8741.700	8653.400	8738.100	8768.200
43	8130.600	8148.700	8242.300	8297.900	8449.700	8380.100	8399.300	8346.400	8391.000	8472.200
44	7797.500	7822.300	7940.400	7951.300	8080.400	8025.500	8053.300	8015.900	8060.600	8083.300
45	7408.700	7493.700	7551.200	7609.500	7693.400	7654.800	7703.400	7643.800	7674.800	7728.000
46	7069.000	7118.300	7195.000	7225.100	7335.400	7288.300	7316.800	7274.700	7322.800	7360.400
47	6776.100	6778.300	6839.400	6894.400	6976.900	6967.600	6971.900	6940.300	6987.700	7024.700
48	6435.600	6454.400	6504.100	6542.700	6662.500	6625.400	6615.600	6605.600	6671.000	6688.800
49	6119.200	6147.400	6170.900	6216.000	6344.400	6313.600	6312.500	6314.700	6360.400	6356.000
50	5823.000	5826.400	5863.800	5877.700	6028.700	5997.500	6006.900	6027.800	6070.000	6056.500
51	5500.000	5526.200	5561.600	5583.500	5683.200	5700.900	5734.800	5713.600	5754.500	5751.900
52	5189.500	5251.700	5252.300	5276.900	5412.100	5392.800	5426.300	5415.600	5446.800	5443.600
53	4922.200	4988.000	4974.400	4958.900	5098.000	5090.200	5114.000	5085.500	5131.500	5126.700

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PH6979A PLHB200WD4 REFRACTOR.IES

CANDELA TABULATION - (Cont.)

54	4655.500	4716.300	4720.000	4705.600	4813.400	4798.600	4825.500	4800.400	4828.500	4834.100
55	4394.700	4493.000	4473.200	4484.100	4551.300	4533.700	4581.300	4547.200	4569.100	4543.100
56	4130.000	4196.000	4236.700	4231.600	4287.200	4269.100	4323.600	4271.800	4307.900	4281.100
57	3857.500	3946.900	3991.200	3968.500	4034.400	3980.200	4054.600	4017.500	4013.400	4024.800
58	3589.100	3676.400	3707.300	3684.200	3764.000	3716.400	3789.300	3737.600	3739.900	3738.400
59	3354.300	3363.600	3440.500	3396.800	3463.600	3496.700	3521.000	3488.200	3472.600	3485.400
60	3069.100	3109.000	3140.500	3116.100	3173.100	3206.300	3240.600	3213.700	3212.000	3220.400
61	2779.700	2817.100	2871.900	2826.600	2919.000	2941.400	3003.200	2954.800	2937.400	2944.800
62	2514.200	2552.700	2615.900	2575.400	2628.400	2686.900	2753.000	2719.700	2682.000	2698.200
63	2327.100	2318.600	2376.200	2323.400	2443.900	2440.100	2507.300	2493.400	2441.900	2445.600
64	2139.900	2102.500	2228.200	2118.800	2259.400	2207.200	2331.100	2237.700	2273.400	2272.700
65	1955.200	1962.500	2080.200	1955.800	2074.900	2041.600	2154.800	2058.100	2104.900	2099.900
66	1880.200	1889.500	1933.000	1881.900	1891.800	1955.000	1979.400	1981.700	1938.500	1927.900
67	1787.500	1794.900	1837.700	1784.100	1814.800	1861.100	1883.100	1883.600	1832.700	1824.400
68	1665.200	1661.900	1703.100	1673.000	1696.900	1737.200	1746.400	1750.700	1715.500	1677.600
69	1533.000	1534.200	1574.700	1530.400	1550.500	1586.100	1616.800	1592.700	1566.400	1539.500
70	1398.000	1403.100	1427.900	1390.100	1417.200	1455.900	1477.800	1452.800	1432.600	1405.100
71	1269.700	1272.600	1291.100	1271.500	1288.200	1314.500	1347.800	1317.900	1297.200	1275.200
72	1145.000	1138.700	1182.900	1149.800	1166.100	1180.500	1226.700	1195.600	1176.600	1154.200
73	1022.700	1032.500	1071.100	1044.300	1047.200	1065.300	1111.400	1078.200	1049.100	1027.900
74	908.280	926.790	954.560	939.080	946.080	950.330	979.210	960.910	941.310	916.930
75	811.830	821.030	848.160	833.840	848.680	835.370	866.200	843.600	822.720	808.170
76	722.910	728.260	745.160	745.870	748.980	740.670	761.180	743.050	724.830	717.430
77	628.890	639.390	662.510	650.400	653.660	647.660	658.110	643.900	632.860	637.050
78	552.080	548.910	569.380	558.360	573.370	555.780	563.220	547.270	550.540	545.690
79	472.620	477.640	482.510	479.980	491.610	480.630	486.260	475.830	474.460	470.210
80	389.950	388.310	395.600	396.680	407.060	393.840	402.020	402.380	396.520	392.840
81	307.500	307.250	319.920	324.340	332.680	334.260	331.020	334.770	327.940	314.570
82	224.420	224.450	238.620	243.220	256.790	250.420	256.280	255.060	252.060	248.340
83	149.860	151.260	161.020	164.950	176.330	172.150	174.550	171.810	176.430	173.500
84	108.190	109.420	115.030	115.560	121.340	115.090	115.040	110.940	115.600	115.880
85	90.360	89.532	92.124	92.556	92.937	90.542	88.001	87.377	88.274	88.169
86	77.607	77.129	79.181	79.317	78.631	75.455	75.546	74.190	74.960	75.821
87	67.569	67.026	68.248	67.800	66.080	64.902	65.652	63.736	63.596	66.220
88	61.832	62.465	61.094	59.615	58.797	57.234	56.997	55.529	56.682	57.626
89	56.547	57.100	56.151	54.588	54.299	53.210	52.235	51.960	52.731	53.283
90	51.138	52.104	51.043	50.108	50.267	48.942	48.590	48.380	49.263	49.801
91	49.153	49.950	48.615	47.902	47.025	46.986	46.168	46.374	46.233	45.707
92	49.428	49.876	48.594	47.152	46.159	45.702	45.242	45.106	44.648	44.406
93	50.650	51.083	48.967	47.462	46.276	45.261	44.360	44.356	43.787	44.093
94	52.733	53.203	50.497	48.563	47.434	45.185	44.864	44.658	44.110	44.407
95	53.769	54.623	51.808	50.549	48.940	46.437	45.919	45.715	45.133	44.886
96	55.342	56.701	53.864	51.345	50.234	48.267	47.826	46.963	46.113	45.612
97	59.422	59.326	55.511	52.924	51.447	49.042	49.278	48.552	47.281	46.468
98	64.229	61.972	58.331	54.618	52.339	50.402	50.387	49.445	48.092	47.943
99	66.177	63.070	60.417	56.533	54.659	52.658	52.318	52.078	49.975	50.714
100	64.400	61.063	59.897	57.920	56.853	54.816	54.943	54.314	51.512	51.499
101	61.760	58.733	58.034	57.615	55.941	54.245	54.467	53.284	51.075	49.824
102	60.402	58.916	57.333	56.028	54.490	52.555	52.419	50.881	49.019	49.966
103	60.087	59.027	57.042	55.187	53.999	51.171	50.869	50.335	48.917	51.518
104	60.035	60.149	58.156	55.082	53.680	50.929	51.178	51.049	49.419	51.993
105	60.649	60.989	58.471	56.008	54.440	51.934	52.341	52.946	50.481	51.739
106	60.585	60.959	58.724	57.178	55.886	52.934	52.602	54.073	51.804	52.457
107	61.652	61.856	59.765	57.818	56.263	53.244	53.082	54.441	53.359	54.741
108	63.884	64.147	61.556	59.237	57.185	54.162	53.653	55.233	54.546	56.374
109	67.512	66.741	63.313	60.614	57.980	55.185	54.638	56.594	56.757	58.439

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110	71.466	69.721	66.142	62.292	58.946	56.552	56.276	58.413	58.904	60.641
111	75.415	72.960	68.079	64.361	60.756	58.639	58.833	61.731	62.646	63.934
112	79.583	75.718	71.672	68.156	63.605	61.834	62.394	65.935	66.356	66.858
113	80.444	76.829	73.543	69.879	66.121	65.066	66.840	70.955	70.408	70.704
114	79.928	77.607	74.854	71.471	68.063	67.895	71.088	74.203	71.865	74.257
115	79.798	77.789	76.171	73.431	71.740	70.678	74.138	76.311	71.976	77.555
116	79.962	78.478	76.342	75.357	75.360	74.620	76.299	77.386	73.459	80.011
117	78.903	77.671	76.363	76.422	77.158	77.529	78.404	78.205	75.359	82.314
118	78.592	77.550	76.979	77.610	78.016	78.568	78.406	78.496	76.509	83.313
119	78.510	77.687	77.392	77.857	77.871	78.779	78.763	78.816	77.922	82.393
120	77.959	77.688	77.325	77.059	77.585	78.749	79.284	78.645	79.549	83.122
121	77.899	77.413	77.456	76.811	76.892	78.001	78.830	78.989	80.692	83.328
122	78.121	76.921	77.153	76.264	76.586	77.631	78.966	79.730	80.546	83.541
123	76.123	76.372	75.637	75.319	75.216	76.337	78.214	79.389	79.491	83.813
124	73.924	73.783	73.809	73.327	73.837	75.515	76.428	78.624	78.522	83.424
125	72.036	71.816	71.508	71.698	72.570	74.237	76.018	76.747	76.633	81.668
126	68.539	68.926	69.828	70.345	71.459	73.068	74.107	74.820	74.889	80.496
127	65.728	66.364	67.271	68.150	70.056	71.330	72.902	73.068	73.654	77.532
128	62.792	64.004	64.876	66.201	68.179	69.884	70.872	70.284	70.909	75.843
129	61.364	61.768	62.654	64.729	66.255	68.085	68.360	67.476	68.315	74.670
130	60.223	60.590	61.352	63.091	64.814	66.199	66.990	65.794	65.926	72.779
131	59.596	59.943	60.730	62.295	63.533	65.457	65.582	64.681	64.394	72.247
132	59.538	59.736	60.394	61.965	63.024	64.848	64.943	63.955	64.019	71.043
133	60.174	59.730	60.420	61.961	63.373	64.043	64.531	63.837	64.191	70.528
134	60.659	60.217	61.277	62.031	63.340	64.132	64.672	64.079	64.579	70.485
135	61.030	60.908	61.537	62.031	63.417	64.514	64.844	64.116	64.646	70.136
136	61.919	61.442	62.044	62.799	63.694	64.869	64.907	64.534	64.533	69.499
137	63.095	62.254	62.132	62.837	63.822	64.327	64.379	64.130	63.702	67.680
138	63.892	62.869	62.780	63.252	63.329	63.452	63.292	63.464	62.738	67.343
139	64.272	63.159	62.916	63.294	62.528	62.761	62.750	62.834	62.358	66.591
140	64.125	63.478	62.828	62.629	61.895	62.306	62.088	62.466	62.219	66.556
141	63.724	62.764	61.999	62.138	61.895	61.990	61.815	62.290	62.216	66.549
142	62.936	62.538	61.691	61.930	61.856	61.845	61.779	62.182	62.074	66.236
143	62.833	62.396	61.693	61.547	61.332	61.563	61.775	61.909	61.800	66.095
144	62.836	62.222	61.870	61.471	61.369	61.527	61.604	61.655	61.980	65.901
145	63.162	62.461	62.014	61.539	61.511	61.665	61.748	61.862	62.195	66.428
146	63.619	62.606	62.189	62.125	62.146	62.020	62.491	62.380	62.686	66.771
147	64.172	62.886	62.643	62.480	62.541	62.498	62.942	62.837	63.109	67.019
148	64.508	63.403	63.171	63.011	62.987	62.652	63.585	63.440	63.575	67.239
149	65.156	64.148	63.735	63.568	63.990	63.479	64.359	64.101	64.410	68.117
150	65.414	64.730	64.113	64.307	64.785	64.568	65.038	64.776	65.192	69.303
151	66.263	64.918	64.427	64.627	65.209	65.040	65.730	65.167	65.856	69.689
152	66.779	65.165	64.495	64.940	65.413	65.541	66.147	65.788	66.446	69.976
153	67.242	65.303	64.530	64.805	65.306	65.679	66.121	66.117	66.577	70.952
154	66.559	65.239	64.528	63.932	64.813	64.788	64.874	66.086	66.196	71.143
155	66.456	65.899	64.394	63.858	64.564	64.451	64.246	65.433	66.234	72.165
156	66.401	65.136	64.625	63.857	64.148	64.031	64.388	64.971	66.466	72.892
157	65.565	64.754	63.900	63.857	64.114	64.098	64.527	64.682	65.590	71.616
158	65.197	64.606	63.939	63.787	64.186	64.168	64.633	64.645	65.214	71.479
159	66.467	65.053	64.426	63.891	64.403	64.237	64.846	64.679	65.399	71.870
160	67.736	66.546	65.751	64.923	65.341	65.082	65.252	65.025	66.035	72.639
161	68.656	67.375	67.036	66.412	66.709	66.133	66.466	66.288	66.699	73.483
162	69.751	68.948	68.235	68.031	68.462	68.168	68.318	68.167	68.441	74.230
163	72.175	71.219	70.316	70.335	70.463	70.021	70.200	70.545	70.767	74.995
164	74.814	73.708	72.794	72.595	72.293	72.206	72.299	72.625	72.848	75.421
165	76.857	75.949	75.162	74.836	74.909	74.514	74.680	74.998	75.220	76.093

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CANDELA TABULATION - (Cont.)

166	79.029	78.009	77.392	76.828	76.635	76.523	76.767	76.961	77.244	77.886
167	80.775	79.792	79.230	78.789	78.929	78.793	79.156	79.122	79.349	78.948
168	83.387	82.107	81.790	80.686	81.095	80.903	81.479	81.203	81.338	80.093
169	84.214	83.322	82.725	82.054	82.535	82.477	82.810	82.320	82.602	80.130
170	85.388	84.539	84.095	83.508	84.044	83.771	84.005	83.556	83.827	80.908
171	85.727	85.015	84.472	84.312	84.709	84.379	84.497	83.741	83.897	81.746
172	85.270	84.984	84.330	84.463	84.670	84.629	84.391	83.987	83.897	82.132
173	84.877	84.462	84.000	84.116	84.365	84.386	84.290	83.883	83.898	82.385
174	86.130	85.363	85.408	85.094	85.595	85.153	85.292	85.136	84.959	83.536
175	90.573	89.993	89.872	89.746	90.110	90.174	90.182	89.527	89.643	88.411
176	92.001	91.771	91.800	91.342	92.138	92.039	92.071	91.292	91.957	90.571
177	92.382	91.997	91.830	91.835	92.102	92.236	92.176	92.040	92.237	91.062
178	92.136	91.963	91.550	91.731	91.995	92.342	92.139	92.112	92.167	90.815
179	91.844	91.472	91.184	91.520	91.568	91.920	91.680	91.867	92.021	90.151
180	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528

Vert. Angles Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000
1	10924.000	10883.000	10925.000	10913.000	10885.000	10887.000	10907.000	10903.000	10939.000	10864.000
2	10919.000	10861.000	10915.000	10936.000	10912.000	10874.000	10922.000	10953.000	10918.000	10875.000
3	10927.000	10832.000	10942.000	10954.000	10892.000	10895.000	10930.000	10960.000	10917.000	10885.000
4	10912.000	10888.000	10916.000	10927.000	10879.000	10879.000	10932.000	10937.000	10931.000	10877.000
5	10973.000	10891.000	10960.000	10959.000	10916.000	10886.000	10936.000	10947.000	10950.000	10898.000
6	10974.000	10867.000	10948.000	10954.000	10932.000	10913.000	10945.000	10963.000	10901.000	10909.000
7	11008.000	10922.000	10966.000	10948.000	10922.000	10911.000	10955.000	10969.000	10914.000	10880.000
8	11025.000	10883.000	10941.000	10993.000	10930.000	10911.000	10944.000	10973.000	10939.000	10870.000
9	11075.000	10948.000	11042.000	11008.000	10963.000	10948.000	10958.000	10939.000	10951.000	10905.000
10	11135.000	11010.000	11068.000	11049.000	11028.000	10989.000	10981.000	10953.000	10950.000	10917.000
11	11202.000	11125.000	11106.000	11086.000	11075.000	10999.000	11022.000	11070.000	10990.000	10960.000
12	11300.000	11213.000	11229.000	11171.000	11157.000	11099.000	11077.000	11080.000	11028.000	10996.000
13	11372.000	11288.000	11299.000	11237.000	11189.000	11195.000	11133.000	11134.000	11097.000	11072.000
14	11491.000	11341.000	11344.000	11372.000	11298.000	11257.000	11247.000	11225.000	11185.000	11116.000
15	11518.000	11400.000	11464.000	11413.000	11317.000	11333.000	11294.000	11293.000	11270.000	11228.000
16	11628.000	11488.000	11543.000	11472.000	11427.000	11395.000	11374.000	11337.000	11344.000	11280.000
17	11656.000	11513.000	11573.000	11528.000	11440.000	11395.000	11427.000	11385.000	11446.000	11361.000
18	11698.000	11567.000	11564.000	11585.000	11481.000	11505.000	11490.000	11476.000	11442.000	11402.000
19	11743.000	11585.000	11566.000	11578.000	11483.000	11541.000	11513.000	11487.000	11448.000	11367.000
20	11698.000	11626.000	11580.000	11578.000	11509.000	11498.000	11482.000	11492.000	11499.000	11408.000
21	11698.000	11598.000	11565.000	11542.000	11499.000	11501.000	11529.000	11491.000	11496.000	11411.000
22	11637.000	11547.000	11525.000	11512.000	11464.000	11455.000	11487.000	11459.000	11463.000	11367.000
23	11622.000	11494.000	11491.000	11476.000	11429.000	11431.000	11449.000	11443.000	11423.000	11285.000
24	11568.000	11429.000	11396.000	11349.000	11332.000	11385.000	11413.000	11396.000	11384.000	11263.000
25	11455.000	11396.000	11372.000	11312.000	11289.000	11326.000	11352.000	11348.000	11270.000	11213.000
26	11397.000	11304.000	11276.000	11279.000	11255.000	11304.000	11297.000	11307.000	11240.000	11166.000
27	11341.000	11217.000	11259.000	11219.000	11155.000	11211.000	11209.000	11220.000	11183.000	11058.000
28	11236.000	11124.000	11131.000	11105.000	11094.000	11120.000	11127.000	11164.000	11085.000	10980.000
29	11160.000	11084.000	11050.000	11051.000	11025.000	11066.000	11102.000	11085.000	11079.000	10935.000
30	11057.000	10970.000	10971.000	10967.000	10914.000	10983.000	11024.000	10996.000	10953.000	10880.000
31	10980.000	10912.000	10894.000	10888.000	10862.000	10904.000	10931.000	10912.000	10884.000	10785.000
32	10839.000	10772.000	10776.000	10807.000	10739.000	10795.000	10814.000	10813.000	10744.000	10699.000
33	10736.000	10602.000	10666.000	10668.000	10661.000	10688.000	10705.000	10727.000	10664.000	10544.000
34	10631.000	10483.000	10514.000	10536.000	10530.000	10578.000	10574.000	10621.000	10566.000	10371.000
35	10445.000	10349.000	10361.000	10407.000	10334.000	10404.000	10463.000	10471.000	10393.000	10276.000
36	10301.000	10180.000	10239.000	10206.000	10239.000	10296.000	10280.000	10282.000	10218.000	10141.000

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CANDELA TABULATION - (Cont.)

37	10093.000	10006.000	10003.000	10054.000	10009.000	10075.000	10114.000	10111.000	10040.000	9932.000
38	9920.700	9859.800	9849.300	9850.200	9805.300	9842.800	9819.700	9867.500	9748.700	9683.300
39	9688.600	9599.900	9581.400	9589.500	9535.100	9547.300	9510.100	9533.300	9419.600	9327.300
40	9419.300	9324.200	9294.300	9294.000	9205.300	9238.600	9184.300	9199.500	9112.600	9041.000
41	9042.100	9004.900	8997.500	9004.600	8883.600	8879.100	8824.600	8860.500	8768.800	8706.000
42	8747.500	8688.400	8672.200	8683.500	8567.500	8559.000	8456.200	8524.200	8407.200	8317.800
43	8385.500	8358.900	8317.600	8321.300	8184.700	8192.100	8105.600	8164.900	8025.300	7976.600
44	8041.200	8048.700	7995.000	7976.000	7868.200	7838.500	7753.200	7786.600	7701.800	7617.500
45	7685.000	7648.500	7631.600	7641.300	7483.000	7447.600	7378.700	7392.000	7338.900	7283.800
46	7335.800	7292.700	7262.900	7295.400	7155.500	7121.100	7067.900	7065.300	7000.000	6924.000
47	6980.400	6952.900	6911.000	6932.900	6856.500	6809.600	6771.000	6722.900	6685.800	6630.200
48	6638.700	6604.300	6559.200	6600.600	6530.800	6499.800	6442.400	6455.500	6371.400	6304.600
49	6312.300	6280.600	6255.700	6255.100	6225.500	6199.300	6113.900	6128.400	6025.200	5994.200
50	5983.900	5972.300	5927.400	5950.100	5872.800	5880.600	5815.900	5845.800	5711.000	5685.600
51	5674.800	5636.200	5597.500	5640.800	5563.700	5559.000	5528.200	5486.900	5394.900	5360.400
52	5384.000	5328.300	5320.900	5346.300	5235.700	5232.900	5195.400	5193.300	5094.900	5069.700
53	5077.800	5004.700	5016.700	5033.600	4959.200	4969.900	4961.000	4937.000	4821.200	4797.200
54	4810.300	4742.200	4769.000	4756.200	4666.100	4701.800	4677.100	4669.000	4560.300	4549.700
55	4506.500	4499.900	4531.800	4480.100	4402.300	4420.600	4391.300	4390.600	4294.400	4296.200
56	4246.100	4305.300	4272.400	4200.500	4104.700	4130.400	4104.000	4111.600	4031.900	4056.300
57	4021.100	4019.800	4005.900	3982.200	3840.900	3849.500	3842.700	3856.700	3789.300	3787.000
58	3745.400	3753.800	3740.400	3705.600	3602.400	3582.700	3600.100	3587.700	3531.500	3511.700
59	3453.700	3457.200	3478.800	3440.000	3340.800	3323.800	3288.400	3326.200	3231.700	3221.300
60	3166.500	3148.800	3169.300	3137.100	3035.500	3047.600	3024.900	3039.900	2945.300	2932.800
61	2890.500	2886.100	2892.900	2862.300	2759.300	2796.400	2773.600	2793.600	2695.300	2671.500
62	2622.700	2636.000	2638.400	2594.000	2505.100	2549.900	2523.000	2550.600	2446.500	2441.100
63	2365.700	2378.200	2386.400	2394.400	2258.000	2361.700	2280.700	2368.600	2240.800	2291.300
64	2149.300	2231.400	2174.900	2194.800	2093.300	2173.600	2100.500	2186.600	2064.400	2141.500
65	2005.300	2084.500	2026.900	1998.200	1976.500	1987.800	2003.900	2007.300	1974.600	1993.000
66	1913.900	1938.000	1928.500	1922.600	1887.200	1885.300	1897.400	1904.900	1869.400	1885.000
67	1797.300	1807.300	1805.700	1784.200	1741.000	1754.400	1761.000	1756.100	1732.100	1751.300
68	1661.700	1670.600	1662.200	1643.100	1605.800	1601.700	1620.200	1628.500	1605.600	1622.800
69	1531.000	1523.600	1519.600	1507.800	1487.800	1473.300	1483.900	1503.000	1469.300	1486.000
70	1389.800	1396.000	1384.700	1381.000	1350.200	1344.900	1346.900	1356.500	1329.200	1347.300
71	1248.400	1264.900	1254.100	1258.800	1224.600	1212.300	1220.900	1226.900	1193.800	1205.900
72	1133.400	1138.800	1129.400	1129.700	1106.400	1092.900	1098.100	1105.500	1079.200	1081.800
73	1017.300	1025.900	1013.300	1010.900	993.180	974.650	989.810	986.400	964.970	964.110
74	901.190	914.910	897.170	893.620	880.040	866.160	881.940	869.440	850.790	870.580
75	799.040	805.280	792.330	788.390	770.550	757.530	770.640	760.050	748.840	778.240
76	708.610	702.030	701.500	692.140	677.090	670.040	670.170	660.990	654.380	677.480
77	620.050	611.270	609.240	602.510	587.470	573.780	578.860	567.760	566.820	577.010
78	533.140	533.640	514.990	514.660	502.040	494.590	491.090	484.070	478.430	489.250
79	458.680	451.020	441.300	433.050	421.520	425.550	415.340	412.250	401.330	417.340
80	385.480	379.940	369.290	365.570	354.840	351.300	354.800	347.270	335.870	343.530
81	310.760	312.680	303.960	299.310	285.720	289.410	290.110	274.350	270.780	272.210
82	242.060	236.090	229.870	227.290	218.100	224.100	210.380	199.230	191.150	189.970
83	167.160	166.940	157.730	159.760	152.410	153.380	142.930	137.800	131.900	130.910
84	111.120	112.380	111.830	114.140	105.720	105.590	102.830	99.814	99.864	99.210
85	86.674	87.090	88.645	88.810	85.568	85.817	83.910	81.626	82.853	81.710
86	74.085	75.242	75.713	75.967	73.193	73.896	70.429	70.147	71.172	70.150
87	63.867	64.811	66.442	65.752	64.425	64.880	62.344	61.533	62.547	61.964
88	58.252	59.131	59.924	60.117	59.559	58.863	57.573	56.805	57.117	57.416
89	54.453	54.693	55.646	55.905	54.846	54.367	51.993	52.974	52.704	52.187
90	49.586	48.998	49.238	48.797	47.984	48.135	47.002	47.355	48.398	48.247
91	45.684	45.120	46.139	46.130	45.844	45.986	45.457	45.124	46.306	45.773
92	44.840	44.560	45.520	45.311	44.996	44.967	44.751	44.159	44.851	44.470

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CANDELA TABULATION - (Cont.)

93	44.461	44.561	45.372	45.104	44.937	44.863	44.357	44.023	44.543	44.342
94	44.449	44.599	45.371	45.347	45.143	45.009	44.456	44.420	44.471	44.665
95	44.973	45.234	45.785	45.594	45.006	45.242	44.908	44.858	44.985	45.475
96	45.324	46.164	46.678	46.253	45.874	46.079	46.114	45.800	45.814	46.438
97	47.398	47.442	48.027	47.769	47.644	47.535	47.372	47.188	46.854	46.969
98	48.804	49.269	49.764	49.124	49.591	49.338	49.374	49.273	48.199	47.667
99	50.366	50.630	51.060	50.343	50.287	50.705	50.750	50.155	48.862	48.933
100	51.162	51.239	51.099	50.534	50.438	51.236	51.713	50.614	50.194	49.642
101	50.996	51.146	51.755	51.268	51.289	52.031	52.253	51.475	51.743	52.020
102	51.873	51.869	52.459	52.631	52.543	52.480	53.579	53.551	51.855	52.259
103	53.560	53.374	53.441	53.078	52.066	52.084	53.042	51.861	50.579	52.192
104	53.083	53.301	53.000	52.656	51.570	51.502	52.322	51.315	51.253	52.318
105	53.036	52.917	52.373	52.524	51.868	51.572	51.949	51.417	51.224	53.153
106	53.624	52.749	52.705	52.801	51.737	51.551	51.843	51.465	51.817	53.748
107	55.036	53.360	53.798	53.277	52.493	52.101	52.120	52.039	52.690	54.638
108	56.120	54.499	54.871	54.663	53.482	53.593	52.672	52.853	54.072	55.651
109	57.444	56.039	56.326	56.039	55.151	55.463	53.773	53.658	55.491	57.486
110	58.970	57.430	59.031	59.214	58.784	57.516	55.293	55.451	56.713	57.662
111	61.559	59.239	61.483	62.013	62.705	60.844	59.110	58.261	59.107	60.606
112	65.869	63.726	65.973	66.916	69.324	67.137	65.284	64.447	63.520	63.166
113	70.788	67.930	68.713	68.779	73.552	71.060	70.020	72.100	70.631	68.698
114	76.038	73.374	71.744	71.037	76.181	75.520	74.732	77.690	77.415	77.516
115	81.757	78.881	75.903	73.535	78.179	78.518	78.364	79.830	82.830	82.684
116	84.796	81.974	78.274	76.468	79.421	79.691	80.950	82.305	84.487	85.441
117	85.720	83.906	80.189	79.389	79.698	80.846	82.948	82.961	85.086	85.752
118	84.149	82.439	81.498	81.318	80.644	81.226	83.149	82.553	83.426	84.143
119	83.903	82.285	82.846	82.760	82.122	81.544	84.158	82.909	82.031	84.240
120	81.826	81.540	83.322	83.643	81.030	81.817	86.959	83.570	80.929	81.556
121	80.597	80.445	83.362	84.366	81.072	81.675	86.569	85.467	81.261	79.955
122	79.044	79.758	82.506	84.324	80.445	81.466	87.283	86.460	81.063	79.494
123	79.358	80.299	83.213	83.802	80.614	81.141	85.460	86.743	81.714	80.591
124	79.498	78.590	83.362	83.690	79.581	80.531	84.983	87.021	82.978	81.786
125	78.646	77.672	82.069	82.101	77.868	79.463	84.335	85.566	81.915	81.541
126	77.618	76.982	80.579	80.953	76.318	78.364	82.447	83.491	81.184	80.950
127	76.779	75.680	77.600	79.006	74.632	76.876	80.495	82.416	80.143	80.932
128	75.245	74.909	75.916	76.306	73.124	75.702	76.753	79.659	78.676	78.861
129	74.413	74.145	74.112	74.064	71.618	73.096	74.749	77.182	77.775	77.151
130	73.908	73.266	72.614	72.163	70.712	71.925	72.824	75.997	75.769	76.497
131	73.563	72.568	71.617	71.024	69.793	70.660	71.040	73.592	74.690	75.067
132	72.543	71.909	70.999	69.981	69.342	69.381	69.674	71.792	73.588	73.846
133	71.974	71.342	70.606	69.458	69.022	68.850	68.962	69.074	71.730	71.976
134	71.764	70.847	70.227	69.245	68.317	68.429	68.268	67.932	70.303	70.716
135	71.201	70.120	69.312	68.818	68.212	68.105	68.078	67.792	68.704	69.441
136	69.830	68.655	68.042	67.845	68.141	67.694	68.009	67.557	67.531	67.630
137	68.655	67.079	67.315	67.528	67.427	67.521	67.216	66.666	66.187	66.531
138	68.073	66.525	66.814	66.882	66.756	66.810	66.262	66.058	65.729	65.466
139	67.927	66.351	66.465	66.438	66.040	66.459	66.146	65.708	65.310	64.954
140	67.468	66.350	66.219	66.293	65.864	66.012	65.863	65.398	64.949	64.852
141	67.116	65.685	66.212	66.086	65.862	66.084	65.758	65.398	64.806	64.887
142	66.835	65.618	66.072	65.876	65.862	66.259	65.722	65.434	64.768	64.991
143	66.447	65.685	66.071	65.882	65.999	66.368	65.862	65.541	64.733	64.956
144	66.445	65.624	65.933	66.200	66.206	66.821	66.207	65.823	64.904	64.965
145	66.340	65.933	66.212	66.689	66.455	66.968	66.319	66.072	65.327	65.529
146	66.727	66.780	66.728	67.148	67.107	67.314	66.698	66.671	65.949	66.011
147	67.383	67.330	67.295	67.564	67.437	67.984	67.228	66.878	66.522	66.928
148	68.012	67.589	67.787	68.315	68.129	68.409	67.990	67.801	67.150	67.818

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CANDELA TABULATION - (Cont.)

149	68.554	68.424	68.518	69.272	68.826	69.527	68.657	68.324	67.991	68.653
150	69.147	69.261	69.526	70.038	69.646	70.444	69.092	69.097	69.179	69.451
151	69.470	69.818	69.999	70.627	70.026	70.719	70.076	70.251	70.280	69.908
152	70.660	70.275	70.761	70.872	70.582	71.352	70.881	71.471	70.913	70.537
153	71.389	71.286	71.128	71.431	71.010	71.744	71.438	72.444	71.062	71.603
154	71.929	71.729	71.441	71.472	71.117	72.055	72.113	72.723	71.918	72.293
155	73.105	72.855	72.075	71.972	71.883	72.371	72.294	72.690	72.634	72.815
156	73.446	72.679	72.643	73.047	72.234	72.516	72.364	72.864	72.648	72.924
157	71.930	72.430	72.678	72.941	72.066	72.897	72.822	72.876	72.820	73.385
158	71.691	71.814	72.434	72.809	72.512	73.045	72.993	73.687	73.782	74.189
159	72.073	72.239	72.432	73.197	73.037	73.991	73.662	74.244	74.223	74.717
160	72.868	72.970	73.258	73.831	73.395	74.378	74.223	74.638	74.995	75.410
161	73.471	73.567	73.962	74.565	73.953	75.075	74.676	75.406	75.694	76.041
162	74.074	74.326	74.531	74.981	74.654	75.356	75.311	75.893	76.195	76.488
163	74.812	74.370	74.994	75.509	75.037	75.391	75.628	75.857	76.271	76.146
164	75.308	75.174	75.276	75.626	75.045	75.391	75.528	75.828	75.858	76.531
165	76.215	75.794	76.254	76.213	75.601	75.404	75.493	76.204	76.406	76.585
166	77.636	77.666	77.761	77.516	76.512	77.261	77.289	78.092	77.934	78.504
167	79.008	78.989	78.790	78.456	78.120	78.345	78.495	79.290	79.251	79.768
168	80.199	79.680	80.048	79.870	79.356	79.647	79.871	80.265	80.341	80.809
169	80.276	80.100	80.094	80.051	79.878	79.898	79.886	80.724	80.423	80.741
170	80.976	80.733	80.725	81.064	80.297	80.876	80.723	81.422	81.156	81.482
171	81.610	81.183	81.247	81.346	80.927	81.751	81.534	81.849	81.855	82.144
172	81.891	81.567	81.429	81.699	81.248	81.927	81.817	82.374	81.935	82.254
173	82.387	81.889	81.780	82.125	81.563	82.187	82.029	82.625	82.353	82.779
174	83.509	82.878	82.929	83.406	83.210	83.547	83.770	84.166	84.200	84.287
175	88.435	87.439	88.177	88.174	88.218	88.398	88.221	88.905	88.765	88.578
176	90.259	90.000	90.168	90.837	90.040	90.535	90.427	91.215	90.649	90.284
177	91.009	90.659	91.234	91.186	90.746	91.232	91.130	91.668	91.323	90.873
178	91.221	90.447	91.374	91.114	91.062	90.914	91.413	91.243	91.469	90.558
179	90.028	89.192	90.005	90.167	89.907	90.041	90.219	90.228	90.424	89.722
180	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000
1	10868.000	10897.000	10936.000	10903.000	10942.000	10972.000	10936.000	10942.000	10940.000	10870.000
2	10881.000	10908.000	10923.000	10894.000	10949.000	10931.000	10959.000	10902.000	10936.000	10897.000
3	10862.000	10918.000	10971.000	10939.000	10967.000	10958.000	10934.000	10932.000	10953.000	10917.000
4	10878.000	10893.000	10961.000	10941.000	10944.000	10976.000	10919.000	10989.000	10936.000	10904.000
5	10914.000	10907.000	10937.000	10938.000	10948.000	10964.000	10931.000	10980.000	10969.000	10948.000
6	10907.000	10945.000	10934.000	10914.000	10981.000	10979.000	10946.000	10958.000	10991.000	10917.000
7	10877.000	10969.000	10984.000	10926.000	10962.000	10990.000	10998.000	11003.000	10990.000	11016.000
8	10885.000	10926.000	10982.000	10950.000	10971.000	11018.000	10995.000	11023.000	11025.000	11033.000
9	10881.000	10938.000	11000.000	10980.000	11062.000	11061.000	11050.000	11118.000	11055.000	11053.000
10	10915.000	10936.000	11006.000	11044.000	11090.000	11101.000	11134.000	11171.000	11171.000	11090.000
11	10945.000	11026.000	11105.000	11096.000	11134.000	11172.000	11176.000	11211.000	11266.000	11206.000
12	10998.000	11088.000	11169.000	11187.000	11271.000	11260.000	11244.000	11274.000	11330.000	11324.000
13	11084.000	11106.000	11228.000	11265.000	11272.000	11321.000	11343.000	11342.000	11410.000	11352.000
14	11120.000	11182.000	11298.000	11334.000	11398.000	11376.000	11374.000	11439.000	11450.000	11431.000
15	11214.000	11291.000	11390.000	11397.000	11410.000	11435.000	11443.000	11435.000	11531.000	11478.000
16	11274.000	11347.000	11470.000	11476.000	11453.000	11459.000	11452.000	11503.000	11584.000	11507.000
17	11337.000	11356.000	11473.000	11477.000	11496.000	11489.000	11513.000	11530.000	11595.000	11530.000
18	11419.000	11386.000	11488.000	11510.000	11523.000	11519.000	11491.000	11565.000	11563.000	11515.000
19	11364.000	11425.000	11492.000	11480.000	11499.000	11505.000	11476.000	11507.000	11526.000	11482.000

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CANDELA TABULATION - (Cont.)

20	11434.000	11390.000	11439.000	11462.000	11502.000	11436.000	11447.000	11471.000	11468.000	11437.000
21	11326.000	11363.000	11390.000	11457.000	11457.000	11408.000	11409.000	11347.000	11410.000	11369.000
22	11339.000	11315.000	11345.000	11389.000	11392.000	11365.000	11343.000	11294.000	11341.000	11306.000
23	11293.000	11277.000	11294.000	11326.000	11352.000	11306.000	11277.000	11265.000	11333.000	11237.000
24	11224.000	11189.000	11269.000	11277.000	11263.000	11270.000	11225.000	11190.000	11241.000	11157.000
25	11143.000	11130.000	11188.000	11193.000	11183.000	11172.000	11150.000	11136.000	11171.000	11085.000
26	11107.000	11082.000	11126.000	11135.000	11112.000	11135.000	11085.000	11096.000	11075.000	11009.000
27	11021.000	10965.000	11044.000	11119.000	11059.000	11057.000	11048.000	11026.000	10991.000	10931.000
28	10946.000	10911.000	10952.000	11023.000	11016.000	10959.000	10953.000	10958.000	10930.000	10852.000
29	10860.000	10858.000	10910.000	10951.000	10914.000	10908.000	10890.000	10842.000	10870.000	10797.000
30	10761.000	10783.000	10796.000	10859.000	10839.000	10792.000	10800.000	10750.000	10767.000	10710.000
31	10684.000	10680.000	10709.000	10739.000	10694.000	10700.000	10698.000	10687.000	10683.000	10581.000
32	10590.000	10601.000	10595.000	10641.000	10632.000	10586.000	10624.000	10630.000	10628.000	10498.000
33	10462.000	10483.000	10502.000	10508.000	10535.000	10505.000	10503.000	10523.000	10503.000	10370.000
34	10301.000	10362.000	10385.000	10411.000	10427.000	10381.000	10376.000	10420.000	10385.000	10245.000
35	10179.000	10172.000	10284.000	10242.000	10263.000	10231.000	10219.000	10238.000	10221.000	10137.000
36	10078.000	10037.000	10103.000	10101.000	10120.000	10085.000	10059.000	10071.000	10102.000	99985.400
37	9851.400	9856.300	9871.400	9882.300	9867.600	9819.300	9841.700	9814.600	9829.600	9755.000
38	9605.800	9614.200	9610.700	9588.100	9584.500	9564.300	9514.600	9565.700	9600.800	9529.000
39	9242.400	9297.600	9273.500	9293.100	9266.700	9215.200	9215.300	9247.400	9301.800	9203.400
40	8921.100	8982.400	8939.900	8959.000	8888.200	8862.200	8829.600	8903.200	9002.900	8899.500
41	8566.800	8648.300	8590.600	8661.100	8557.000	8555.200	8493.400	8548.200	8667.100	8621.200
42	8236.900	8269.700	8249.000	8270.700	8209.300	8216.800	8183.700	8209.900	8325.800	8248.600
43	7858.200	7901.800	7935.100	7933.900	7856.900	7841.600	7873.300	7829.400	7980.200	7910.400
44	7526.800	7593.700	7546.800	7560.900	7482.800	7479.200	7496.100	7499.500	7602.800	7562.200
45	7216.600	7219.700	7197.400	7187.900	7147.400	7141.400	7147.200	7161.500	7239.800	7223.100
46	6886.600	6876.100	6866.900	6871.200	6802.200	6843.200	6823.300	6883.500	6925.300	6913.000
47	6578.500	6599.100	6550.400	6573.200	6477.200	6525.700	6522.900	6534.800	6614.100	6554.400
48	6257.800	6251.000	6254.500	6249.900	6207.600	6224.800	6219.100	6245.300	6304.300	6261.400
49	5948.500	5949.100	5931.000	5940.800	5929.100	5930.000	5906.300	5947.500	5985.500	5932.900
50	5638.200	5654.200	5642.600	5628.100	5623.400	5625.600	5618.300	5648.900	5671.300	5662.800
51	5341.000	5352.500	5325.300	5331.200	5315.500	5332.600	5314.400	5334.500	5360.400	5334.000
52	5058.900	5096.500	5052.200	5057.000	5041.700	5038.400	5011.100	5050.300	5074.800	5061.300
53	4824.300	4833.000	4781.800	4790.000	4759.500	4769.100	4733.500	4776.500	4805.400	4815.100
54	4597.400	4597.000	4501.000	4524.600	4506.800	4455.600	4470.600	4523.900	4535.100	4591.400
55	4346.000	4357.000	4261.400	4245.400	4244.100	4236.600	4208.500	4242.600	4308.200	4339.500
56	4081.000	4096.600	4024.500	3979.200	3960.700	3969.500	3904.700	3956.000	4047.900	4056.400
57	3821.700	3833.500	3748.400	3711.600	3725.300	3708.400	3660.600	3713.100	3775.300	3793.600
58	3534.800	3551.000	3460.000	3451.700	3445.200	3421.900	3384.000	3427.900	3492.000	3488.000
59	3250.700	3266.800	3168.400	3189.500	3183.900	3135.200	3118.800	3109.100	3201.700	3213.500
60	2979.700	2976.600	2891.000	2912.800	2933.900	2890.000	2872.100	2854.100	2909.500	2914.600
61	2721.300	2695.000	2613.800	2655.800	2670.900	2649.100	2601.100	2594.900	2652.100	2643.000
62	2473.000	2451.900	2356.600	2393.300	2414.100	2388.300	2350.900	2331.100	2390.900	2392.600
63	2255.400	2307.900	2152.900	2243.300	2192.500	2239.000	2125.300	2140.800	2244.600	2192.600
64	2115.700	2163.900	2029.000	2093.300	2052.800	2089.600	1979.500	1994.100	2098.400	2041.600
65	2035.000	2020.700	1963.400	1944.800	1972.700	1940.600	1903.600	1929.600	1953.600	1962.800
66	1910.300	1915.300	1853.600	1844.800	1864.500	1841.900	1806.800	1820.200	1856.700	1859.900
67	1761.300	1767.500	1718.900	1720.300	1729.800	1722.800	1677.400	1707.400	1737.100	1731.900
68	1620.100	1621.800	1571.400	1590.100	1586.600	1593.700	1551.200	1566.500	1601.600	1580.600
69	1475.600	1477.500	1433.600	1456.300	1464.500	1447.100	1428.300	1439.500	1457.800	1441.800
70	1342.800	1352.500	1315.700	1330.900	1328.700	1315.800	1293.900	1314.000	1319.700	1289.900
71	1215.400	1221.100	1184.300	1201.100	1206.000	1201.800	1176.300	1184.100	1192.300	1176.100
72	1087.100	1104.000	1072.300	1073.200	1089.500	1080.500	1060.900	1070.400	1077.000	1061.200
73	975.250	983.230	961.020	954.750	973.210	963.220	945.510	957.170	955.970	946.210
74	863.740	880.480	849.730	845.760	856.900	854.990	830.130	843.980	850.430	831.260
75	762.580	767.970	750.240	750.090	755.620	751.740	733.790	740.840	759.770	728.970

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CANDELA TABULATION - (Cont.)

76	661.340	669.970	656.270	648.690	662.120	650.170	641.320	650.270	654.610	639.310
77	565.200	576.820	555.530	562.850	563.510	552.440	550.390	552.780	566.410	549.290
78	488.110	488.330	476.740	478.720	481.540	483.610	469.340	465.060	478.890	463.440
79	407.640	416.640	400.400	405.050	410.150	414.790	399.340	394.430	404.900	387.250
80	334.450	334.380	323.710	335.360	335.280	343.470	328.450	319.190	323.540	310.780
81	262.080	264.250	254.030	260.980	261.680	268.420	250.570	240.220	246.730	238.740
82	185.780	190.430	183.880	181.300	180.840	186.510	172.680	163.220	172.750	166.790
83	124.650	127.350	123.210	124.260	124.120	127.430	122.070	116.660	120.450	119.200
84	95.327	96.379	95.734	96.213	96.661	98.503	96.741	95.601	97.432	96.191
85	79.460	81.062	80.514	80.735	80.572	81.629	81.429	83.631	83.050	81.203
86	68.959	69.910	69.733	70.346	69.803	70.399	71.556	71.788	72.174	70.852
87	61.533	62.590	63.307	63.228	63.026	63.942	65.024	65.522	65.934	65.861
88	56.869	57.956	58.600	58.205	58.241	59.620	60.080	61.331	62.152	61.380
89	51.916	52.711	53.095	53.149	52.434	53.819	55.025	56.734	57.803	56.796
90	48.032	48.984	50.206	50.341	50.797	52.179	53.431	54.387	55.564	54.953
91	46.187	46.926	49.297	49.553	50.372	51.708	52.446	53.760	54.800	54.334
92	45.108	46.659	48.912	49.591	50.299	52.166	52.813	54.412	55.078	55.046
93	45.076	46.799	48.869	49.883	50.985	52.749	53.374	55.393	57.577	56.272
94	45.525	47.870	49.882	50.865	52.047	53.969	54.532	56.528	57.657	56.790
95	46.040	48.615	51.162	52.344	53.980	55.154	56.501	59.181	58.584	57.638
96	47.101	49.536	51.893	53.688	55.496	57.439	58.615	61.834	62.438	61.903
97	47.594	49.789	52.594	54.414	55.962	58.774	60.512	61.742	63.636	64.812
98	48.445	50.730	54.042	55.947	57.505	58.910	61.268	60.881	60.608	63.348
99	50.052	52.055	54.849	57.431	59.531	60.064	60.851	59.365	58.457	58.502
100	50.898	53.904	56.561	57.056	59.072	58.549	58.630	58.248	58.500	58.377
101	52.624	56.071	57.609	57.157	57.397	57.182	57.225	57.282	58.812	58.444
102	53.835	56.346	58.048	56.309	56.139	56.871	57.428	57.870	59.045	59.130
103	54.417	56.601	58.127	55.939	56.280	57.195	58.017	58.666	59.902	58.902
104	54.951	57.050	57.569	56.316	56.629	57.697	59.073	59.590	60.257	59.752
105	54.927	57.154	57.461	56.674	56.911	58.636	59.534	59.282	60.625	60.419
106	55.895	57.785	58.338	57.830	57.858	58.901	60.453	60.811	61.611	62.161
107	57.003	59.085	59.661	59.101	59.831	60.585	62.267	62.444	64.019	64.307
108	57.907	59.829	61.500	62.354	63.366	63.332	64.649	65.945	66.520	66.817
109	58.321	61.155	64.910	66.357	67.484	66.944	67.690	68.980	69.380	69.968
110	59.682	63.142	68.253	70.386	73.188	73.554	71.440	71.435	72.399	72.663
111	62.794	67.756	73.233	75.316	78.724	79.208	75.400	74.961	76.350	76.796
112	65.064	70.140	75.168	77.112	79.953	79.581	77.552	76.848	77.480	77.596
113	69.115	72.993	77.068	78.491	80.092	78.847	78.359	77.472	76.938	77.301
114	76.674	76.028	78.264	79.348	80.165	78.644	79.285	78.554	77.181	77.126
115	82.731	79.064	80.544	79.425	80.027	78.794	80.195	79.072	77.248	76.642
116	86.968	81.812	81.442	81.271	80.407	79.313	80.950	80.295	77.105	76.978
117	86.598	83.181	82.051	81.944	81.603	80.010	82.004	79.251	76.983	76.673
118	86.266	83.613	82.908	83.206	82.482	79.877	82.347	78.619	75.695	76.910
119	84.150	83.030	82.741	83.856	83.105	80.759	81.211	76.859	75.429	76.320
120	82.586	83.300	83.674	84.593	83.193	81.415	81.326	74.642	73.161	74.665
121	81.419	83.128	84.487	83.488	82.059	81.062	79.733	73.202	72.616	74.433
122	81.894	82.920	83.986	82.558	81.262	79.651	77.880	71.379	70.440	73.005
123	82.120	82.967	82.408	81.453	80.198	78.316	76.878	69.426	67.075	70.841
124	82.297	81.970	81.020	79.911	79.299	77.403	74.835	67.341	65.690	68.316
125	82.370	81.712	79.822	77.743	77.194	75.462	72.367	64.715	64.213	66.243
126	81.017	80.781	77.196	76.317	74.341	72.886	70.847	63.235	62.514	63.719
127	80.264	79.402	75.738	74.153	72.122	70.867	69.688	61.881	61.434	61.621
128	79.461	77.702	73.948	71.885	70.421	69.216	68.654	61.260	60.919	60.201
129	77.938	75.911	72.315	70.879	69.997	68.814	68.349	61.872	60.898	59.855
130	77.024	73.922	71.722	69.625	69.571	69.743	68.135	62.598	61.569	60.396
131	75.059	72.552	70.965	69.487	69.494	69.704	68.796	63.102	62.880	61.348

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CANDELA TABULATION - (Cont.)

132	73.341	71.091	70.355	69.564	69.767	69.494	69.385	63.251	64.439	63.098
133	72.302	69.994	70.136	69.803	69.982	69.306	68.914	63.567	64.400	63.304
134	70.961	69.192	69.928	69.835	69.881	68.827	68.413	62.637	63.116	63.308
135	69.088	69.072	70.061	69.269	69.881	68.725	68.101	62.346	62.258	63.376
136	67.599	68.447	69.609	68.817	69.325	68.829	67.992	62.751	62.541	63.032
137	66.154	67.530	68.954	68.319	69.247	68.758	68.503	63.037	63.249	62.520
138	66.073	66.973	68.176	67.725	69.007	68.724	68.587	63.388	63.499	62.776
139	65.563	66.522	68.128	67.584	68.825	68.724	68.555	63.531	64.404	63.191
140	65.029	66.243	67.777	67.584	68.546	68.725	69.040	63.808	64.479	63.895
141	65.021	66.173	67.775	67.592	68.577	68.937	68.802	64.088	65.143	63.833
142	65.021	66.180	67.879	67.911	68.577	69.042	69.042	64.441	65.187	64.007
143	65.055	66.392	67.985	68.299	68.577	69.119	69.427	64.966	65.568	64.586
144	65.430	66.723	68.506	68.684	68.886	69.471	69.605	65.356	65.742	65.077
145	65.648	67.578	69.130	68.968	69.587	69.828	69.713	65.702	66.350	65.472
146	66.465	67.904	69.427	69.318	69.913	70.350	70.384	66.235	66.918	65.579
147	67.180	68.685	70.048	70.282	70.500	71.094	71.319	67.315	67.715	66.430
148	68.178	69.446	70.906	71.354	71.846	71.785	72.122	68.394	68.702	67.385
149	68.764	70.351	71.388	71.682	71.923	72.324	72.846	68.734	69.406	68.083
150	69.286	70.716	71.331	72.128	72.924	72.840	73.231	69.157	69.612	68.305
151	70.370	71.310	72.741	72.876	73.706	74.283	73.884	68.574	69.670	68.923
152	71.411	71.842	72.985	73.300	73.720	74.395	74.357	68.491	69.056	69.215
153	72.078	72.741	72.881	73.990	73.893	74.951	74.950	68.385	69.400	68.836
154	73.062	72.948	73.747	73.712	74.384	75.089	75.578	68.806	68.551	68.730
155	73.186	72.914	73.935	73.749	74.423	74.737	75.245	68.807	68.099	67.838
156	72.916	72.915	73.762	74.030	74.078	74.281	74.642	68.005	68.103	67.237
157	72.976	73.442	73.794	74.250	74.211	74.503	74.362	68.169	68.453	67.501
158	73.945	74.072	74.315	74.806	74.840	75.027	75.235	68.687	69.159	68.329
159	74.545	74.847	74.880	74.992	75.434	75.587	75.486	69.355	69.967	69.173
160	75.344	75.626	75.686	75.861	75.865	75.901	75.802	70.195	70.752	70.188
161	76.006	76.290	76.248	75.966	76.007	76.039	75.803	71.055	71.700	71.155
162	76.536	76.635	76.398	75.980	76.078	76.056	76.288	72.566	72.990	72.654
163	76.552	76.607	76.642	76.640	76.806	76.789	76.985	74.902	74.936	74.592
164	76.587	77.098	77.337	77.176	77.277	77.491	77.561	77.061	77.141	76.620
165	77.033	77.546	78.285	78.454	78.391	78.223	78.569	79.536	79.242	78.893
166	78.637	79.375	79.627	80.171	80.054	79.691	79.842	81.203	81.383	80.671
167	79.591	80.477	80.798	81.470	81.257	81.247	81.246	83.210	83.528	82.474
168	81.145	81.307	82.209	82.066	82.473	82.414	82.595	85.354	85.315	84.200
169	80.940	81.556	82.210	82.981	82.802	82.940	82.875	86.136	86.147	84.920
170	81.798	82.745	83.085	83.574	83.500	83.466	83.641	87.186	87.632	86.580
171	82.120	83.340	83.996	84.349	84.420	84.450	84.629	87.403	87.700	87.194
172	82.539	83.375	84.111	84.454	84.671	84.868	84.951	87.233	87.135	86.743
173	82.685	83.427	84.285	84.491	84.744	84.913	84.988	86.397	86.507	86.119
174	84.545	85.274	85.799	86.031	86.323	86.525	86.600	87.844	87.777	87.048
175	88.550	89.310	89.602	90.126	90.157	90.510	90.288	90.936	91.258	90.471
176	90.126	90.747	90.971	91.427	91.218	91.726	91.736	92.075	92.452	91.428
177	90.702	90.746	91.291	91.460	91.715	91.829	92.096	92.152	92.205	91.569
178	90.644	90.499	91.152	91.178	91.718	91.404	91.957	92.082	91.819	91.292
179	89.777	89.556	90.064	90.055	90.556	90.355	90.693	91.696	91.637	90.800
180	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528	90.528

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000	10905.000
1	10965.000	10966.000	10911.000	10942.000	10945.000	10935.000	10947.000
2	10948.000	10999.000	10911.000	10924.000	10929.000	10927.000	10955.000

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CANDELA TABULATION - (Cont.)

3	10938.00011007.00010947.00010961.00010935.00010946.00010952.000
4	10924.00010979.00010987.00010995.00010971.00010997.00010972.000
5	10959.00010970.00010937.00011005.00010978.00010989.00010999.000
6	11023.00010971.00010975.00011007.00011005.00011031.00011026.000
7	11008.00011006.00011038.00011045.00011033.00011077.00011013.000
8	11037.00011068.00011008.00011058.00011072.00011120.00011072.000
9	11026.00011107.00011117.00011117.00011088.00011155.00011114.000
10	11135.00011149.00011130.00011216.00011170.00011244.00011186.000
11	11193.00011247.00011265.00011266.00011257.00011333.00011242.000
12	11314.00011366.00011317.00011310.00011373.00011355.00011335.000
13	11462.00011427.00011425.00011424.00011414.00011416.00011421.000
14	11480.00011535.00011465.00011481.00011486.00011503.00011498.000
15	11519.00011619.00011538.00011539.00011529.00011565.00011539.000
16	11580.00011652.00011590.00011596.00011547.00011596.00011584.000
17	11578.00011649.00011608.00011625.00011637.00011592.00011606.000
18	11589.00011642.00011590.00011621.00011591.00011636.00011583.000
19	11573.00011586.00011571.00011570.00011621.00011628.00011568.000
20	11534.00011527.00011586.00011567.00011564.00011579.00011544.000
21	11425.00011498.00011554.00011518.00011552.00011504.00011518.000
22	11409.00011423.00011489.00011447.00011453.00011434.00011405.000
23	11323.00011358.00011407.00011393.00011402.00011388.00011341.000
24	11260.00011296.00011348.00011306.00011351.00011303.00011274.000
25	11173.00011235.00011234.00011244.00011213.00011217.00011194.000
26	11090.00011157.00011171.00011203.00011169.00011124.00011115.000
27	11021.00011066.00011117.00011114.00011075.00011068.00011027.000
28	10956.00010955.00010986.00011020.00011026.00010961.00010925.000
29	10849.00010878.00010943.00010932.00010988.00010844.00010850.000
30	10756.00010818.00010810.00010905.00010819.00010793.00010766.000
31	10683.00010752.00010715.00010793.00010750.00010700.00010665.000
32	10643.00010644.00010601.00010686.00010646.00010639.00010571.000
33	10465.00010545.00010522.00010565.00010552.00010555.00010482.000
34	10385.00010418.00010426.00010416.00010489.00010455.00010400.000
35	10173.00010275.00010342.00010322.00010355.00010284.00010235.000
36	10077.00010132.00010139.00010209.00010211.00010148.00010111.000
37	9818.800 9976.000 10011.00010048.00010070.0009991.800 9919.200
38	9591.600 9681.900 9707.400 9742.600 9824.500 9725.900 9722.400
39	9284.800 9373.100 9410.500 9403.300 9503.800 9463.500 9450.200
40	8977.000 9033.200 9082.800 9084.800 9158.000 9143.100 9127.400
41	8694.600 8701.900 8807.300 8777.200 8831.900 8773.000 8804.600
42	8354.100 8347.900 8394.900 8399.700 8429.800 8399.200 8489.600
43	7957.700 8001.500 8029.700 8058.800 8077.900 8088.600 8130.600
44	7658.600 7656.100 7707.400 7694.200 7756.800 7727.200 7797.500
45	7315.000 7304.300 7327.800 7345.900 7367.000 7346.200 7408.700
46	6985.000 6959.900 7036.200 7020.700 7022.600 7037.200 7069.000
47	6665.000 6651.700 6702.800 6692.700 6678.000 6717.400 6776.100
48	6351.300 6326.400 6398.800 6373.900 6395.600 6395.200 6435.600
49	6000.300 6007.300 6043.800 6065.600 6060.900 6053.700 6119.200
50	5697.600 5723.800 5741.300 5748.500 5749.200 5754.300 5823.000
51	5384.600 5409.700 5426.300 5420.400 5461.300 5446.400 5500.000
52	5081.200 5105.200 5127.900 5158.500 5153.300 5140.500 5189.500
53	4856.200 4850.300 4839.500 4867.100 4898.700 4855.900 4922.200
54	4626.200 4592.700 4587.100 4616.600 4598.000 4585.600 4655.500
55	4402.100 4327.100 4309.000 4306.900 4345.100 4307.000 4394.700
56	4139.200 4070.800 4035.200 4061.000 4071.800 4037.800 4130.000
57	3854.900 3793.100 3752.900 3772.300 3803.100 3790.300 3857.500
58	3572.300 3501.500 3519.600 3487.200 3526.000 3510.700 3589.100

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CANDELA TABULATION - (Cont.)

59	3249.800	3213.000	3231.700	3214.300	3231.700	3221.800	3354.300
60	2949.500	2903.900	2919.400	2943.200	2947.500	2970.300	3069.100
61	2665.400	2637.900	2658.200	2669.600	2705.000	2690.800	2779.700
62	2403.300	2377.300	2410.000	2423.900	2460.500	2449.600	2514.200
63	2251.900	2164.000	2250.100	2200.100	2287.300	2219.300	2327.100
64	2100.400	2013.000	2090.200	2022.600	2114.200	2044.800	2139.900
65	1949.900	1946.900	1931.400	1935.700	1942.700	1921.000	1955.200
66	1858.200	1858.300	1849.800	1854.300	1870.300	1854.600	1880.200
67	1733.700	1737.600	1733.600	1741.500	1758.500	1751.400	1787.500
68	1598.300	1590.200	1596.700	1610.600	1627.100	1626.900	1665.200
69	1448.100	1453.200	1462.700	1475.300	1507.300	1493.000	1533.000
70	1318.300	1321.000	1329.600	1357.500	1382.000	1364.800	1398.000
71	1197.100	1192.100	1203.200	1233.900	1254.700	1246.900	1269.700
72	1077.600	1080.000	1092.500	1114.700	1137.700	1132.700	1145.000
73	980.380	968.130	977.340	999.260	1018.500	1019.800	1022.700
74	868.250	856.260	871.990	883.920	916.100	906.960	908.280
75	765.520	759.160	776.890	777.960	809.710	800.720	811.830
76	672.210	665.970	679.850	688.240	700.480	706.670	722.910
77	583.970	571.480	591.220	603.190	618.310	614.300	628.890
78	506.420	491.530	509.980	525.280	544.200	535.820	552.080
79	420.630	418.220	436.500	454.160	470.000	467.760	472.620
80	341.080	340.600	358.440	378.680	399.460	395.710	389.950
81	259.000	262.910	274.470	288.120	312.640	306.200	307.500
82	183.760	186.870	192.850	195.760	210.610	205.830	224.420
83	126.570	129.890	132.320	133.810	142.550	138.250	149.860
84	99.388	100.940	102.370	104.510	107.900	104.260	108.190
85	85.663	85.341	85.506	88.946	92.157	88.218	90.360
86	73.596	72.192	73.037	76.315	77.056	74.621	77.607
87	67.122	66.098	65.699	67.375	66.950	66.666	67.569
88	63.380	61.789	61.779	62.558	61.609	61.506	61.832
89	58.016	56.191	55.343	56.073	56.822	56.022	56.547
90	55.446	53.608	51.891	52.096	51.621	51.206	51.138
91	55.036	53.156	51.008	51.177	50.265	49.776	49.153
92	56.313	53.729	51.316	51.116	51.091	49.899	49.428
93	57.368	55.185	52.777	52.124	52.347	51.523	50.650
94	57.921	55.882	54.195	53.636	54.008	53.127	52.733
95	58.214	56.030	54.700	54.998	54.913	53.902	53.769
96	61.896	59.350	56.883	57.103	57.654	56.794	55.342
97	65.223	63.655	61.546	62.203	60.928	61.371	59.422
98	64.936	66.016	66.633	67.643	65.295	66.376	64.229
99	62.210	64.651	66.631	67.084	67.187	68.163	66.177
100	60.952	62.162	66.382	64.077	64.847	65.572	64.400
101	59.979	59.977	62.663	63.135	62.474	64.219	61.760
102	58.867	58.345	59.804	60.525	60.675	62.304	60.402
103	58.566	58.012	58.122	59.219	59.401	60.855	60.087
104	59.691	58.761	58.471	58.811	59.660	60.681	60.035
105	60.777	60.225	60.068	59.753	60.247	60.714	60.649
106	61.425	62.206	61.980	61.024	61.144	61.704	60.585
107	63.765	65.466	63.919	62.920	63.497	62.593	61.652
108	67.621	68.580	66.293	65.508	66.009	65.477	63.884
109	70.753	70.965	68.870	69.412	69.503	69.093	67.512
110	74.914	74.632	72.929	71.948	71.867	72.992	71.466
111	78.432	77.716	76.343	74.892	75.562	76.863	75.415
112	79.682	79.361	79.199	77.721	78.772	79.534	79.583
113	78.854	80.367	80.688	79.434	80.124	80.138	80.444
114	78.402	79.266	81.069	80.468	78.772	80.429	79.928

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

115	76.868	78.217	80.668	80.896	80.031	79.350	79.798
116	77.387	78.704	81.383	82.069	80.279	79.939	79.962
117	76.613	77.829	79.732	82.341	80.695	79.807	78.903
118	76.544	78.213	79.281	81.970	80.730	79.521	78.592
119	76.332	77.424	78.020	80.746	80.835	79.728	78.510
120	76.076	76.391	76.959	80.352	80.835	79.082	77.959
121	75.662	76.141	75.114	79.177	79.625	78.824	77.899
122	73.889	74.529	74.919	77.691	78.199	78.438	78.121
123	72.637	73.241	73.378	75.186	76.535	76.369	76.123
124	70.477	71.276	71.936	73.367	74.054	74.319	73.924
125	68.131	69.173	70.154	71.198	71.609	71.586	72.036
126	65.641	67.524	68.000	68.630	69.712	68.808	68.539
127	63.180	64.932	66.429	66.655	66.937	65.994	65.728
128	61.634	63.185	63.974	64.597	64.472	63.513	62.792
129	60.870	62.343	62.925	63.066	62.761	61.688	61.364
130	60.945	61.837	61.405	61.927	61.477	60.645	60.223
131	61.205	61.284	60.918	61.412	60.555	59.568	59.596
132	61.857	61.271	60.751	61.375	60.533	59.517	59.538
133	62.488	61.376	61.103	61.339	60.877	59.623	60.174
134	62.559	61.513	61.450	61.442	61.121	60.105	60.659
135	62.974	62.041	61.807	61.649	61.384	61.104	61.030
136	64.355	62.866	62.272	62.174	62.604	61.998	61.919
137	64.627	64.509	63.100	63.335	63.158	62.851	63.095
138	64.384	64.609	63.913	63.621	63.368	63.424	63.892
139	63.856	64.851	64.355	64.008	63.452	64.054	64.272
140	63.799	64.618	64.385	64.354	64.390	64.267	64.125
141	64.181	63.840	64.192	64.497	64.530	64.271	63.724
142	64.427	63.665	63.263	64.361	64.656	64.133	62.936
143	64.748	63.834	63.026	63.450	63.875	63.782	62.833
144	65.300	64.284	63.559	63.027	63.298	63.498	62.836
145	65.589	64.885	64.151	63.437	63.694	63.497	63.162
146	65.984	65.376	64.787	63.972	64.187	63.777	63.619
147	66.634	65.831	65.518	64.585	64.705	64.093	64.172
148	67.481	66.893	66.294	65.683	65.234	64.683	64.508
149	68.155	67.622	67.160	66.623	66.294	65.657	65.156
150	68.744	68.192	67.591	67.233	66.782	66.371	65.414
151	69.303	68.859	68.389	67.726	67.356	67.626	66.263
152	68.983	69.208	68.766	68.294	68.077	67.828	66.779
153	68.413	69.216	68.327	68.329	68.073	67.828	67.242
154	67.790	68.275	67.543	67.984	67.829	67.209	66.559
155	67.618	67.577	67.504	67.259	67.370	67.439	66.456
156	67.583	67.184	66.597	67.034	66.564	67.231	66.401
157	67.832	67.350	66.512	66.404	66.286	65.965	65.565
158	68.504	68.008	67.684	66.985	66.645	66.207	65.197
159	69.178	68.887	68.499	67.759	67.662	67.208	66.467
160	70.444	70.012	69.482	68.845	68.464	68.038	67.736
161	71.683	70.783	70.684	69.998	69.757	68.879	68.656
162	73.072	72.523	72.103	71.507	71.143	70.559	69.751
163	74.798	74.410	73.968	73.735	73.385	72.969	72.175
164	77.058	76.751	76.239	75.845	75.405	75.482	74.814
165	79.223	78.748	78.295	77.850	77.946	77.441	76.857
166	80.953	80.698	80.258	79.811	79.742	79.127	79.029
167	83.035	82.681	82.178	81.663	81.777	81.053	80.775
168	84.850	84.736	84.410	83.915	83.900	83.584	83.387
169	85.475	85.377	85.179	84.863	84.847	84.576	84.214
170	86.807	86.540	86.542	85.997	85.832	85.503	85.388

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CANDELA TABULATION - (Cont.)

171	87.402	87.068	86.610	86.800	86.422	85.959	85.727
172	86.870	86.934	86.261	86.459	86.280	86.070	85.270
173	86.179	86.132	85.427	85.728	85.547	85.688	84.877
174	87.594	87.064	86.442	86.174	86.300	86.352	86.130
175	91.134	90.460	90.200	90.410	90.537	90.351	90.573
176	91.796	91.845	91.521	91.544	91.873	92.157	92.001
177	91.656	91.819	91.694	91.902	92.116	92.234	92.382
178	91.620	91.643	91.518	91.972	91.940	92.269	92.136
179	91.195	91.573	91.096	91.656	91.479	92.199	91.844
180	90.528	90.528	90.528	90.528	90.528	90.528	90.528

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4290.29	N.A.	14.80
0-30	9487.2	N.A.	32.70
0-40	15891.03	N.A.	54.80
0-60	25540.95	N.A.	88.10
0-80	28441.77	N.A.	98.10
0-90	28582.54	N.A.	98.60
10-90	27533.25	N.A.	95.00
20-40	11600.74	N.A.	40.00
20-50	17329.77	N.A.	59.80
40-70	11694.02	N.A.	40.30
60-80	2900.82	N.A.	10.00
70-80	856.72	N.A.	3.00
80-90	140.77	N.A.	0.50
90-110	117.17	N.A.	0.40
90-120	192.60	N.A.	0.70
90-130	259.87	N.A.	0.90
90-150	352.28	N.A.	1.20
90-180	414.40	N.A.	1.40
110-180	297.23	N.A.	1.00
0-180	28996.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1049.28
10-20	3241.00
20-30	5196.91
30-40	6403.83
40-50	5729.02
50-60	3920.9
60-70	2044.1
70-80	856.72
80-90	140.77
90-100	56.33
100-110	60.85
110-120	75.43
120-130	67.27
130-140	51.10
140-150	41.31
150-160	32.22
160-170	21.67
170-180	8.23

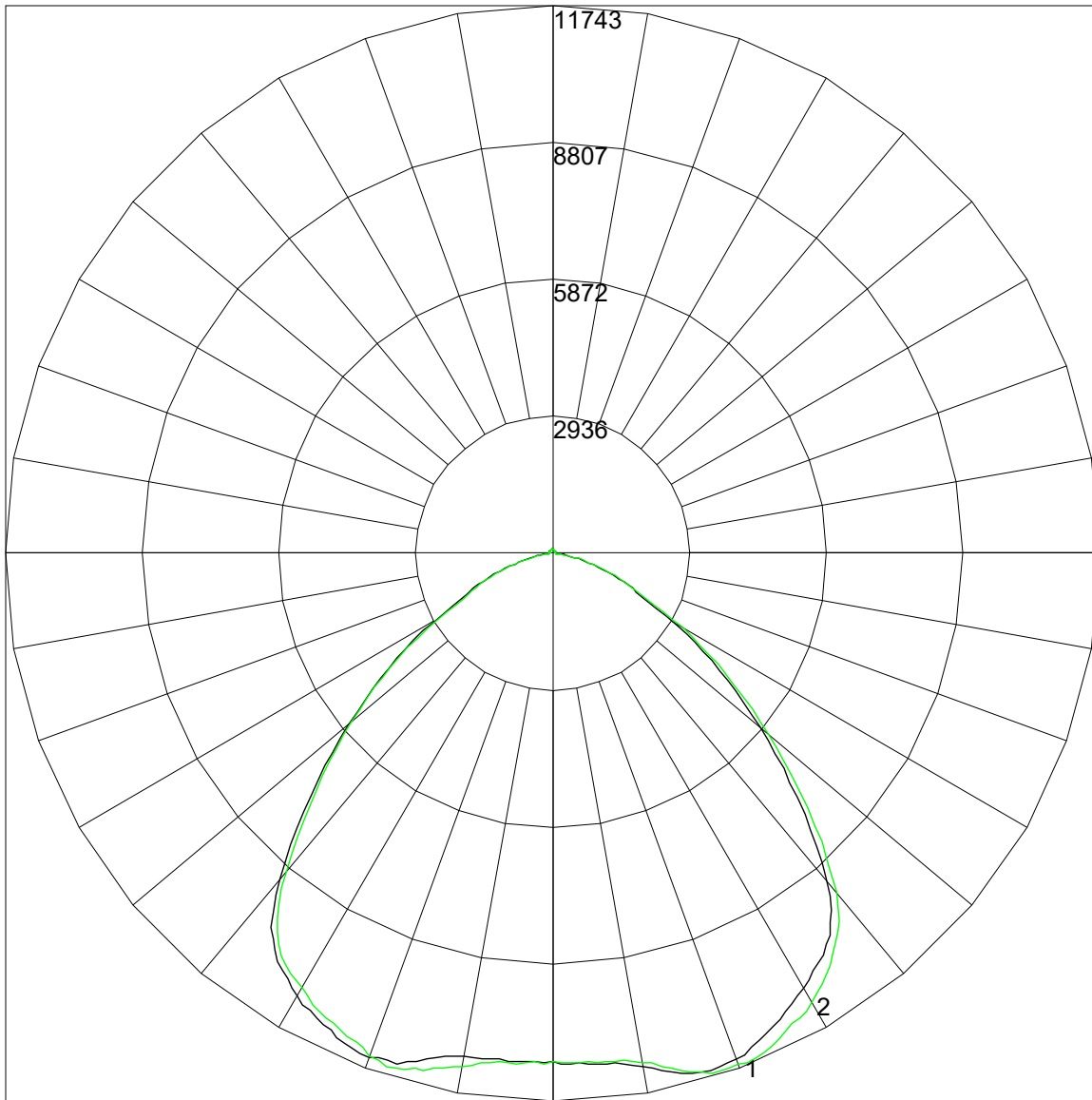
IES INDOOR REPORT
PHOTOMETRIC FILENAME : PH6979A PLHB200WD4 REFRACTOR.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	110	106	103	99	107	104	101	98	99	97	94	95	93	91	92	90	88	86
2	102	94	89	84	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	77	71	91	83	76	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	71	65	60	69	63	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	62	57	52	61	55	51	49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	53	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	38	49	42	37	48	41	37	46	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

POLAR GRAPH



Maximum Candela = 11743 Located At Horizontal Angle = 100, Vertical Angle = 19
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)