

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P192779

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4033.8 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



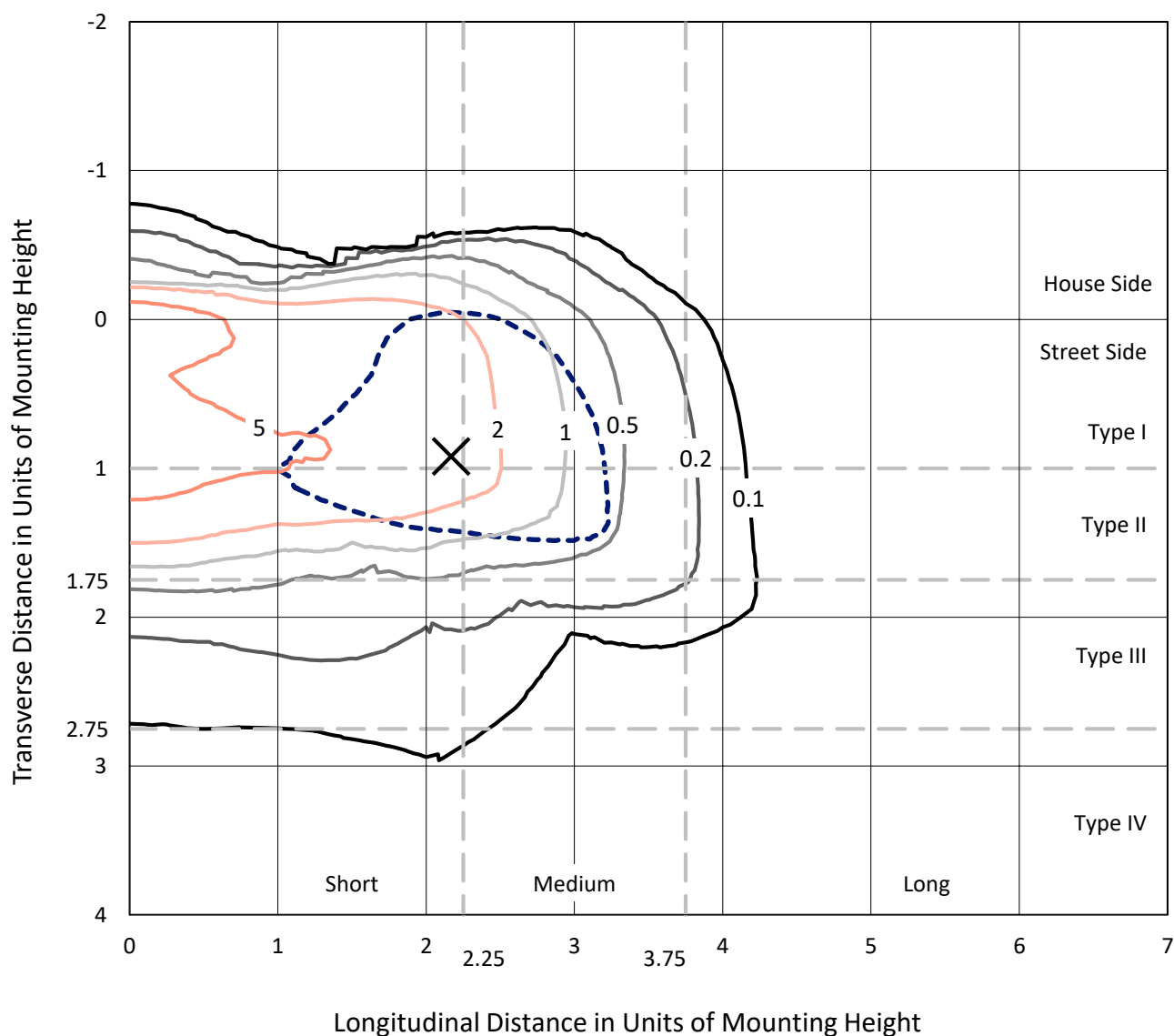
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

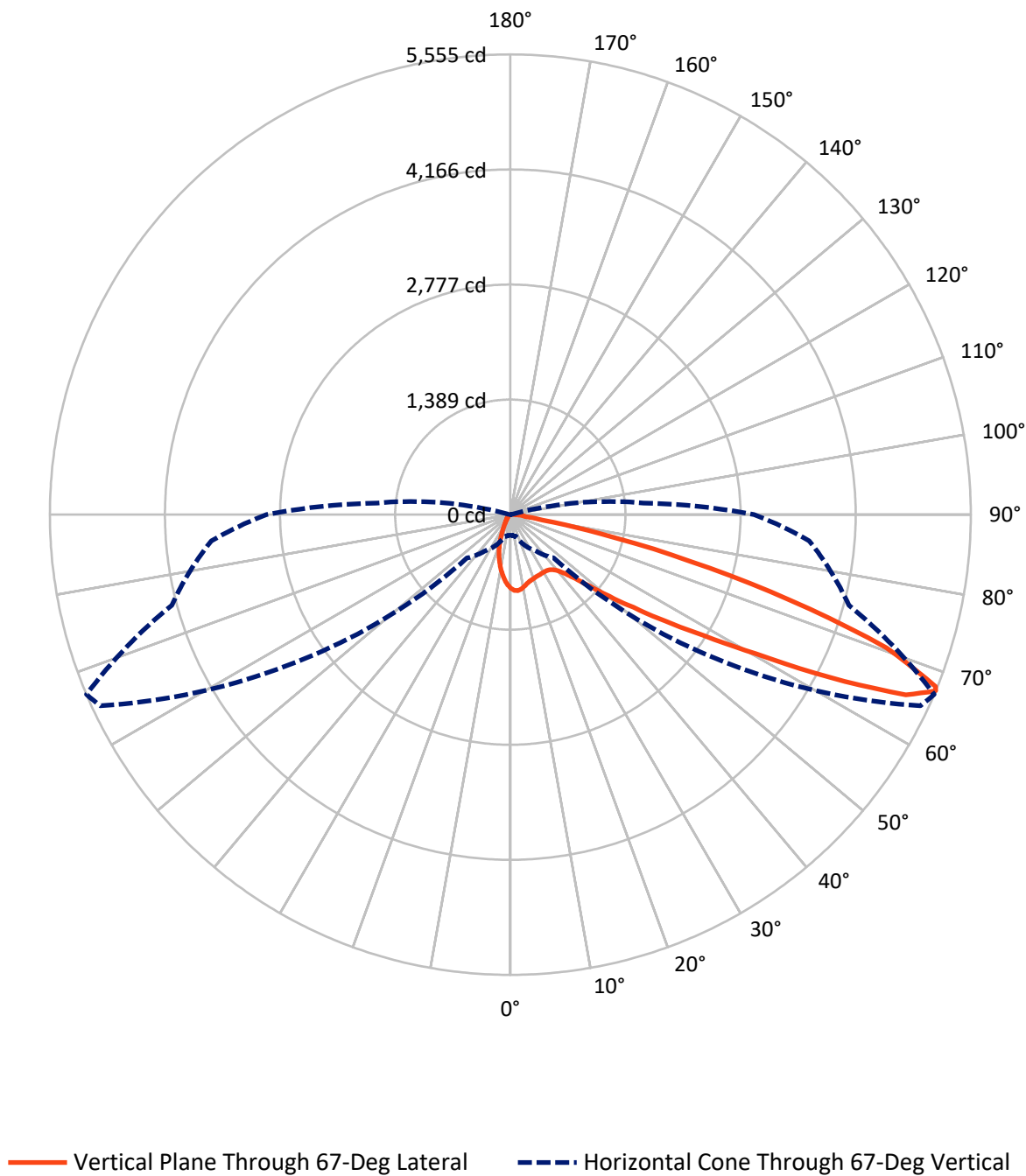


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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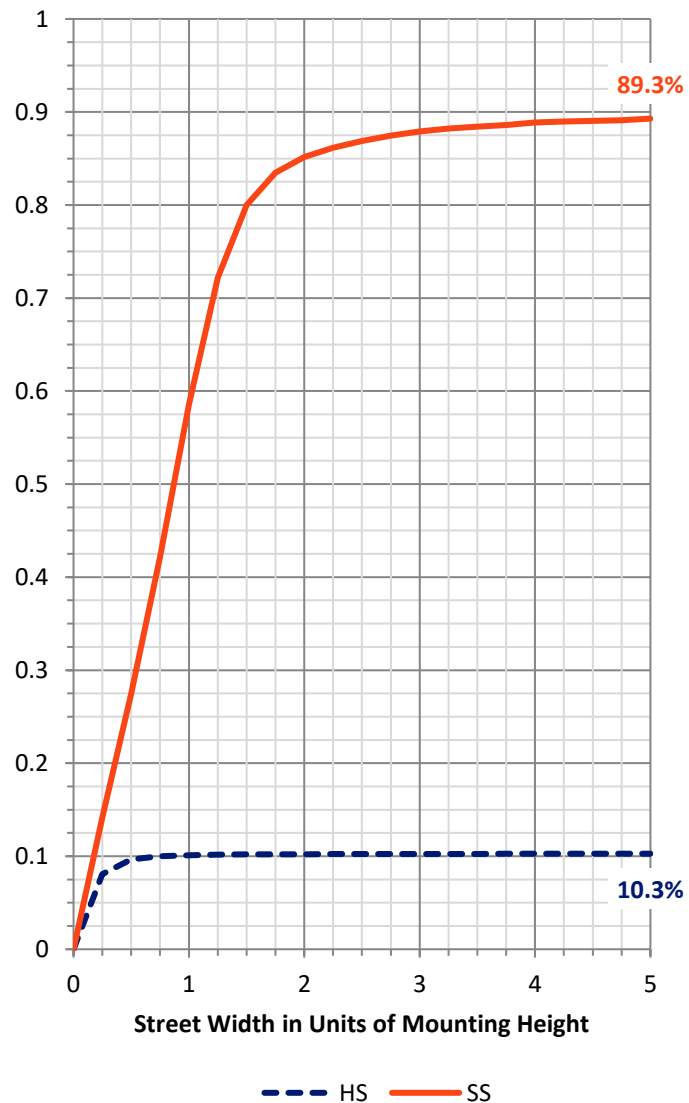
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	418.8	0.0	418.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3615.0	0.0	3615.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	4033.8	0.0	4033.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.8
10°-20°	154.1	3.8
20°-30°	224.0	5.6
30°-40°	349.5	8.7
40°-50°	619.0	15.3
50°-60°	979.5	24.3
60°-70°	1121.9	27.8
70°-80°	465.4	11.5
80°-90°	48.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4033.8	100.0
0°-180°	4033.8	100.0

Coefficient of Utilization



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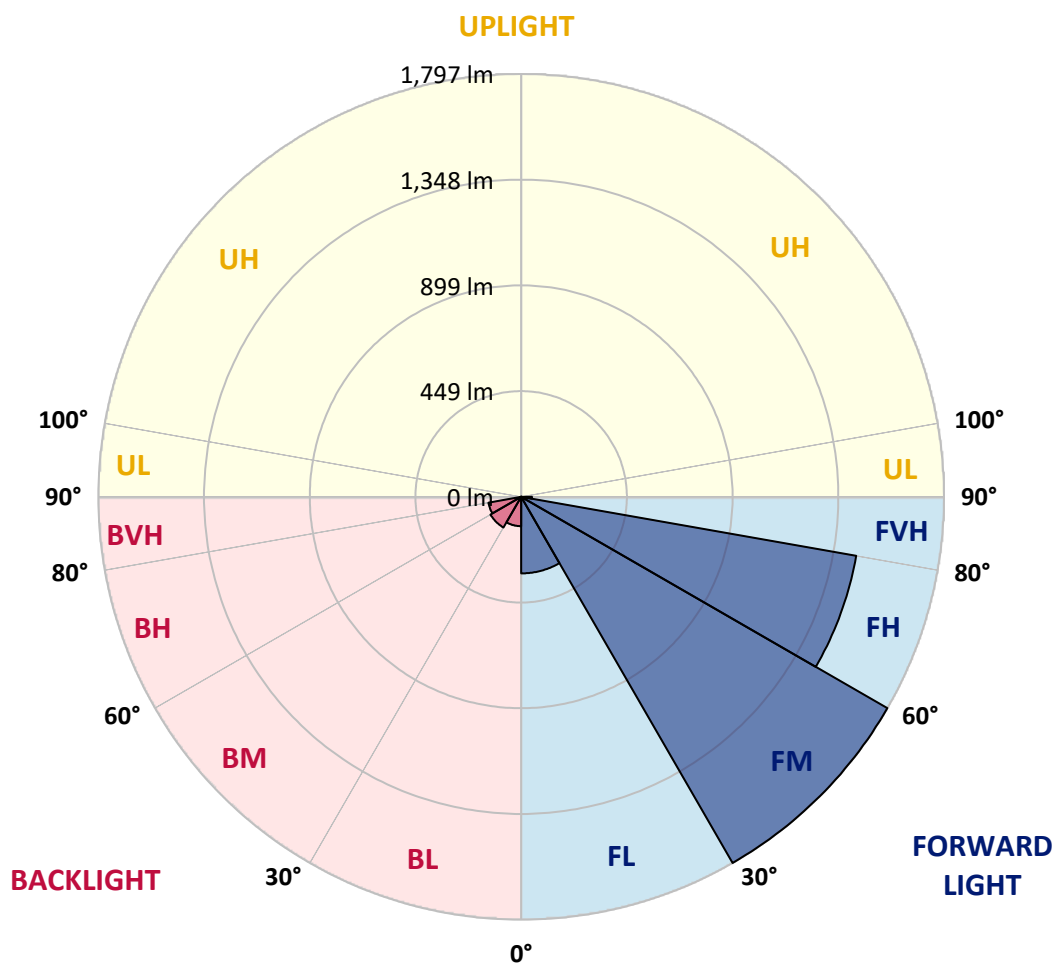
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.5	8.1			
FM	(30°-60°)	1797.5	44.6			
FH	(60°-80°)	1446.1	35.9			G1/1800
FVH	(80°-90°)	45.9	1.1			G1/100
BL	(0°-30°)	125.0	3.1	B1/500		
BM	(30°-60°)	150.5	3.7	B0/220		
BH	(60°-80°)	141.2	3.5	B1/500		G1/500
BVH	(80°-90°)	2.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	889.6	889.6	889.6	889.6	889.6	889.6	889.6	889.6	889.6	889.6	889.6
2.5°	919.8	921.6	921.4	922.8	926.1	926.3	923.0	916.6	915.3	907.1	892.6
5°	848.2	853.7	856.9	870.4	885.3	903.5	917.1	922.0	921.4	915.5	893.8
7.5°	766.6	771.9	775.7	791.5	811.5	842.6	878.1	907.3	909.8	916.2	892.8
10°	712.3	713.1	718.4	733.3	754.3	786.1	828.4	879.5	887.3	910.5	890.6
12.5°	667.5	668.2	675.0	691.3	713.6	745.5	790.1	849.2	861.2	903.5	890.1
15°	635.8	638.3	644.4	661.3	685.2	717.0	762.5	826.8	841.2	901.0	894.3
17.5°	625.2	628.0	629.9	642.1	663.8	694.8	741.7	812.3	828.4	902.4	902.6
20°	636.2	638.3	634.1	637.2	650.5	678.3	724.0	799.8	819.0	904.0	913.2
22.5°	677.4	678.3	666.8	653.4	651.0	666.4	710.0	789.8	810.6	908.5	925.7
25°	748.0	746.4	727.4	698.6	671.3	664.2	701.9	783.7	806.4	913.2	938.5
27.5°	833.1	835.5	809.6	767.5	715.5	678.3	700.7	781.1	804.4	916.4	949.9
30°	936.7	939.9	910.3	857.3	782.9	713.1	711.5	780.6	803.3	914.3	950.8
32.5°	1042.4	1046.2	1023.0	968.5	872.7	771.5	736.0	785.9	805.6	907.1	945.4
35°	1152.9	1158.5	1143.0	1096.2	994.6	855.7	779.0	801.6	816.7	906.3	939.9
37.5°	1305.6	1310.8	1281.6	1232.0	1142.1	968.7	848.2	831.3	842.8	917.6	941.4
40°	1533.6	1532.9	1457.6	1381.6	1304.2	1112.1	945.4	884.9	890.8	951.7	958.7
42.5°	1782.0	1780.9	1669.6	1554.1	1484.2	1288.9	1073.2	977.7	973.6	1014.6	1004.0
45°	1973.5	1973.3	1882.5	1752.4	1700.8	1491.7	1238.4	1106.6	1100.5	1116.6	1087.2
47.5°	2055.1	2056.6	2011.0	1919.4	1941.1	1766.0	1446.5	1293.4	1284.3	1277.6	1232.9
50°	1991.7	1994.5	1998.3	1980.5	2117.3	2134.7	1725.9	1556.6	1552.1	1522.7	1452.9
52.5°	1784.2	1798.5	1842.7	1899.5	2178.5	2488.6	2163.7	1883.7	1859.7	1828.5	1751.4
55°	1434.6	1450.3	1534.3	1671.8	2087.4	2721.1	2777.3	2305.4	2265.3	2172.0	2060.8
57.5°	949.4	973.8	1095.8	1270.8	1823.0	2758.5	3389.6	2890.5	2751.1	2495.5	2370.3
60°	523.1	546.6	678.8	837.4	1316.7	2573.6	3801.2	3652.3	3406.2	2857.0	2746.0
62.5°	322.1	334.8	432.4	579.9	789.6	2031.2	3886.5	4609.7	4324.8	3322.7	3199.8
65°	256.4	261.9	309.6	474.0	566.1	1208.2	3611.3	5339.6	5244.6	3886.5	3606.2
67°	248.9	251.1	273.5	407.0	533.6	740.7	3025.5	5458.4	5554.8	4227.6	3618.8
67.5°	250.5	252.9	274.3	388.4	532.6	680.6	2823.7	5411.6	5533.4	4254.7	3562.7
70°	241.7	248.9	314.1	388.2	506.5	565.6	1691.0	4688.8	4815.6	3953.2	3022.9
72.5°	85.7	86.1	135.8	314.1	550.7	571.8	849.2	3437.3	3531.2	3024.1	2179.4
75°	50.8	43.2	45.2	89.4	526.3	555.2	489.8	2196.4	2231.4	1732.9	1103.7
77.5°	35.1	30.6	31.5	39.6	200.5	547.5	389.2	1145.4	1108.0	607.7	235.0
80°	20.0	17.7	18.8	34.6	72.9	510.8	367.0	464.5	395.9	103.0	64.9
82.5°	10.6	9.0	10.8	28.5	50.8	318.4	367.7	224.4	177.9	34.9	44.2
85°	3.8	3.1	5.1	19.5	33.9	97.7	340.9	188.7	148.3	16.9	33.7
87.5°	0.6	0.6	2.0	7.9	13.6	29.8	201.7	112.0	75.1	10.2	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	889.6	889.6	889.6	889.6	889.6	889.6	889.6	889.6	889.6	889.6	889.6
2.5°	886.7	876.7	863.0	846.3	826.5	809.2	796.2	782.9	780.0	775.3	774.5
5°	880.9	863.4	829.6	790.8	749.4	712.0	681.7	654.6	642.6	632.2	631.1
7.5°	872.2	846.1	788.5	725.8	661.1	602.3	552.5	517.2	484.7	469.2	466.7
10°	862.0	824.7	742.1	655.2	565.9	482.8	408.7	346.6	308.8	286.6	283.7
12.5°	852.7	803.7	694.8	582.2	463.3	352.3	257.0	197.6	158.1	142.1	140.2
15°	848.2	786.7	650.5	507.3	355.9	224.2	140.5	108.7	95.7	92.0	91.8
17.5°	847.8	772.5	607.3	429.8	249.4	130.3	91.6	83.5	81.0	80.0	80.0
20°	847.6	758.8	564.0	349.6	158.3	86.9	76.3	74.3	72.4	71.2	71.2
22.5°	850.0	746.6	518.8	267.8	99.8	70.4	67.0	65.2	62.9	61.1	60.9
25°	852.7	737.2	472.6	190.5	72.2	61.1	57.9	55.2	52.0	49.9	49.6
27.5°	853.1	725.4	423.3	127.5	60.4	53.4	49.1	45.2	41.4	39.4	39.0
30°	846.1	705.6	368.4	86.1	53.4	46.3	40.8	36.5	32.9	31.2	31.2
32.5°	832.2	681.1	308.2	64.9	47.5	39.8	33.7	29.6	27.4	26.6	26.3
35°	819.8	654.8	246.4	55.0	42.6	33.7	27.6	24.9	23.5	23.3	23.1
37.5°	812.5	633.6	188.3	49.9	37.9	28.2	23.3	21.5	20.8	20.2	20.4
40°	818.2	616.0	139.1	45.7	33.3	23.5	19.7	18.8	18.1	17.9	17.9
42.5°	842.8	613.0	103.2	41.8	28.7	19.5	17.2	16.5	16.0	15.8	16.0
45°	907.7	631.7	80.2	38.4	24.2	16.5	14.6	14.3	14.1	14.1	14.1
47.5°	1005.4	670.6	66.8	34.3	20.2	14.1	12.7	12.4	12.2	12.4	12.4
50°	1170.8	741.7	59.8	30.4	16.7	12.0	10.8	10.8	10.8	10.8	11.0
52.5°	1422.3	881.4	55.0	26.3	13.6	10.2	9.2	9.2	9.4	9.4	9.7
55°	1702.5	1066.8	50.8	22.4	11.6	8.5	7.5	7.7	7.9	8.2	8.2
57.5°	2006.5	1272.3	47.3	18.3	9.9	6.8	6.3	6.5	6.8	7.3	7.3
60°	2373.3	1494.5	42.1	14.3	8.2	5.5	4.9	5.5	6.1	6.5	6.8
62.5°	2776.2	1709.6	35.5	11.3	6.8	4.3	4.1	4.9	5.9	6.3	6.5
65°	3051.4	1777.1	27.4	9.2	5.1	3.1	3.3	4.5	5.7	6.3	6.3
67°	2939.8	1611.2	22.4	7.7	4.3	2.4	3.1	4.5	5.7	6.1	6.3
67.5°	2862.5	1546.3	21.5	7.5	4.1	2.4	3.1	4.5	5.7	6.3	6.3
70°	2329.1	1161.7	17.9	5.7	3.3	2.0	2.6	4.3	5.5	6.1	6.1
72.5°	1618.2	716.2	16.0	4.1	2.8	1.8	2.4	4.1	5.1	5.9	6.1
75°	769.4	259.3	13.6	3.1	2.6	1.6	2.0	4.1	5.1	5.9	5.9
77.5°	156.9	60.2	11.0	2.6	2.0	1.6	1.8	3.8	4.9	5.7	5.7
80°	51.6	23.3	8.2	2.4	2.0	1.6	1.8	3.5	4.9	5.5	5.7
82.5°	37.1	11.8	5.5	2.4	2.0	1.6	1.6	3.5	4.7	5.5	5.5
85°	28.5	8.2	3.5	2.4	2.0	1.6	1.6	3.3	4.5	5.1	5.1
87.5°	18.8	3.3	2.8	2.4	2.0	1.6	1.6	3.3	4.3	4.9	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)