

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: P193227

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42516.1 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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



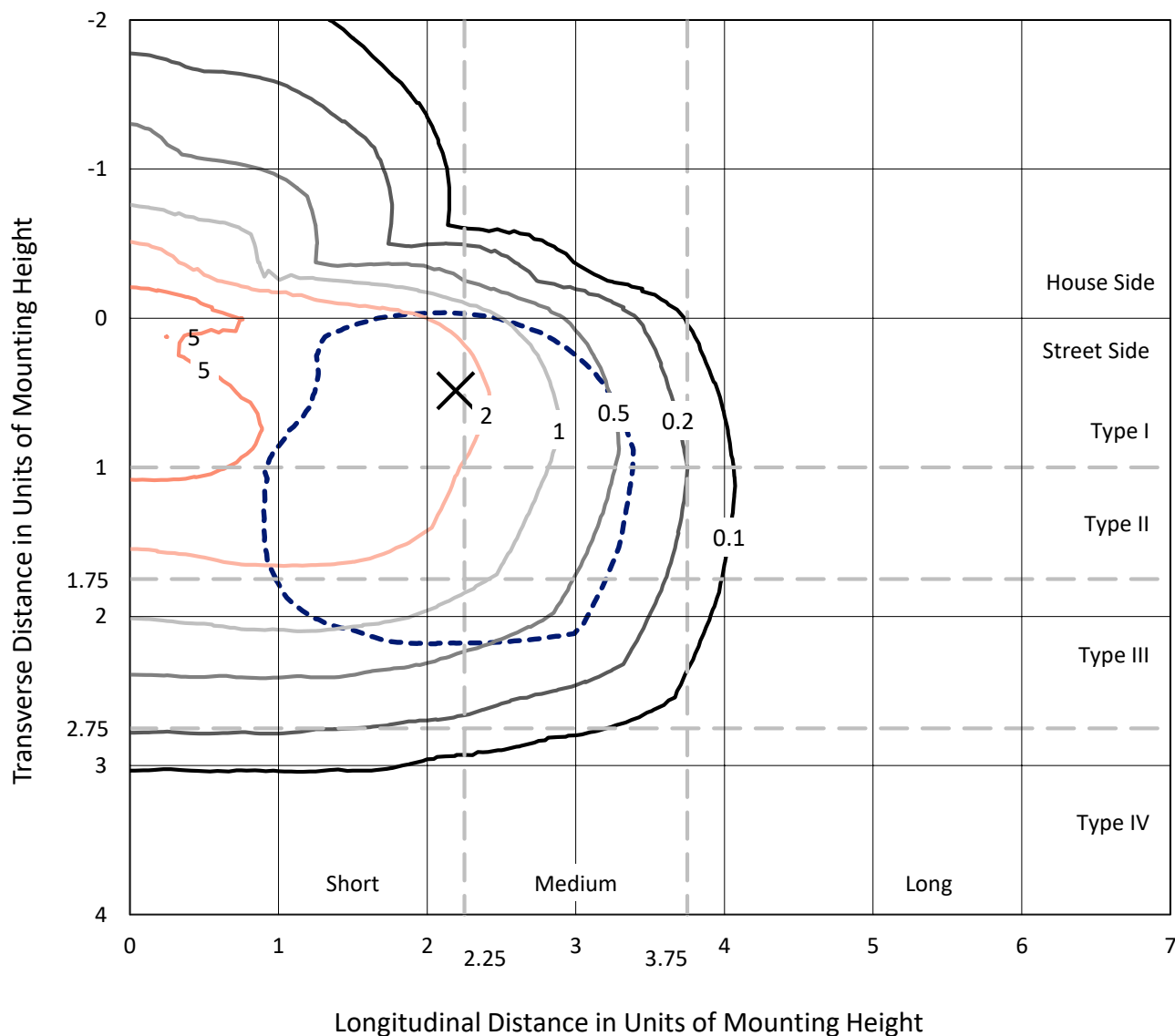
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

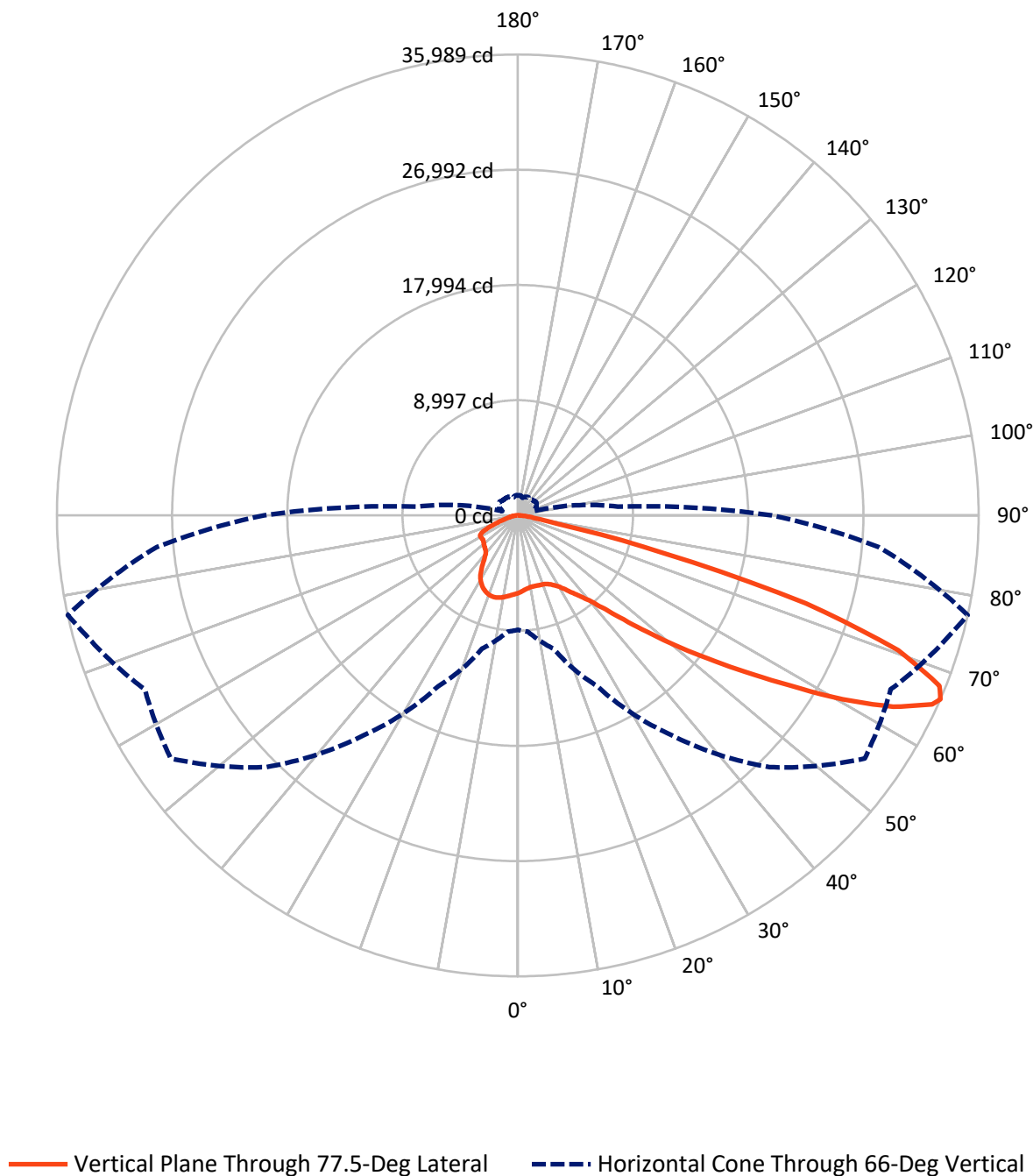


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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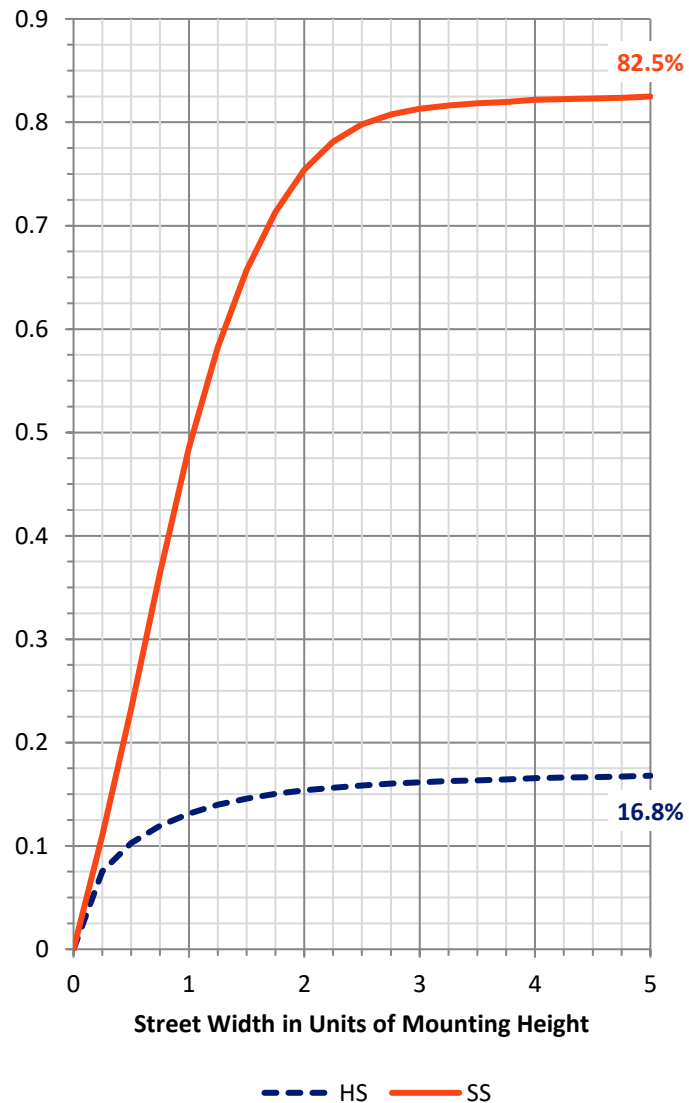
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7263.6	0.0	7263.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	35252.5	0.0	35252.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	42516.1	0.0	42516.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.3	1.3
10°-20°	1527.1	3.6
20°-30°	2606.2	6.1
30°-40°	4172.1	9.8
40°-50°	6445.5	15.2
50°-60°	9141.9	21.5
60°-70°	12229.4	28.8
70°-80°	5311.0	12.5
80°-90°	541.5	1.3
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°	42516.1	100.0
0°-180°	42516.1	100.0

Coefficient of Utilization



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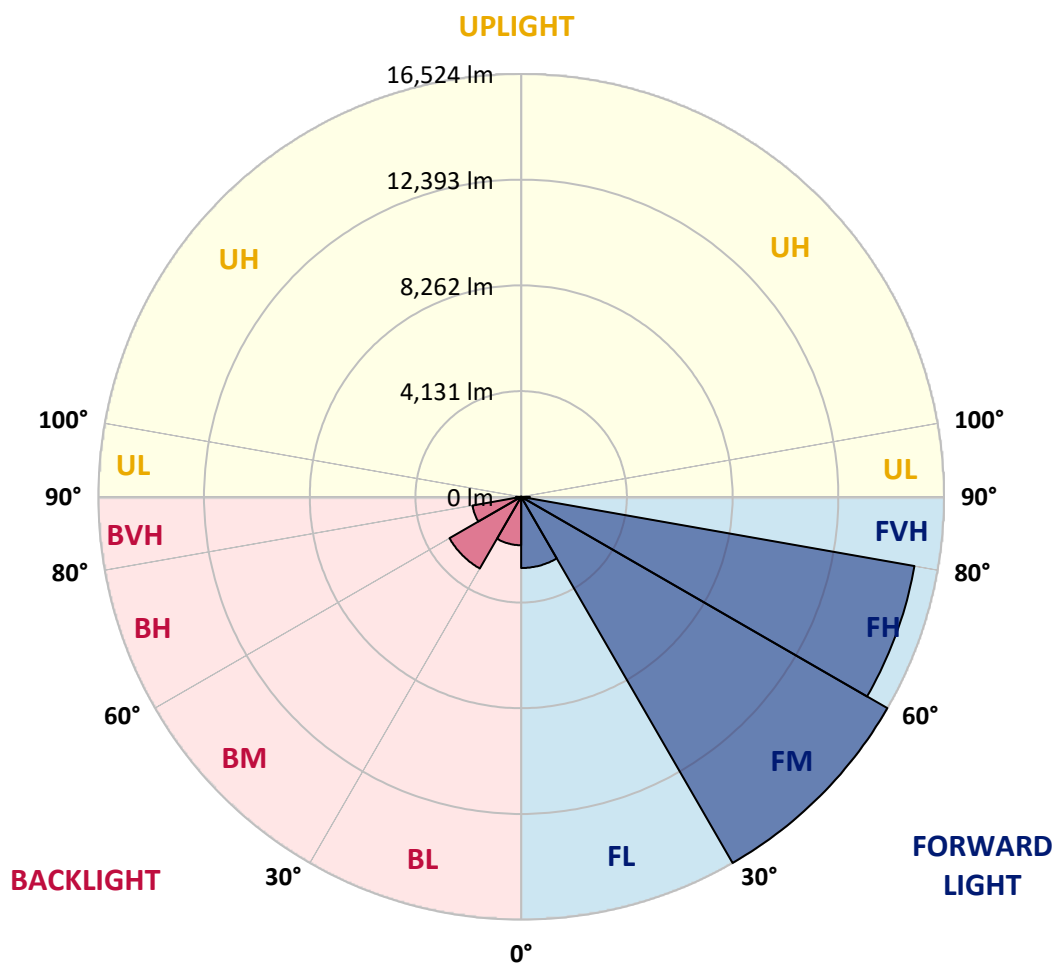
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2782.9	6.5			
FM	(30°-60°)	16524.0	38.9			
FH	(60°-80°)	15606.0	36.7			G5
FVH	(80°-90°)	339.6	0.8			G3/500
BL	(0°-30°)	1891.7	4.4	B3/2500		
BM	(30°-60°)	3235.5	7.6	B3/5000		
BH	(60°-80°)	1934.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	201.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8
2.5°	5359.6	5395.8	5426.0	5454.1	5510.3	5602.7	5709.3	5795.5	5920.1	5944.2	6010.6
5°	4867.5	4867.5	4891.5	4933.8	5010.1	5148.8	5293.4	5486.2	5757.4	5821.7	5998.5
7.5°	4628.4	4630.4	4644.5	4680.6	4747.0	4873.5	5032.3	5259.2	5626.9	5733.3	6034.6
10°	4716.8	4696.7	4666.6	4648.6	4658.6	4732.9	4883.6	5136.8	5546.4	5683.1	6115.0
12.5°	5211.0	5172.9	5068.3	4929.8	4797.1	4743.0	4831.3	5078.4	5512.3	5671.0	6221.4
15°	6018.5	6002.4	5807.6	5520.4	5199.0	4929.8	4869.4	5056.3	5516.4	5685.1	6348.0
17.5°	7031.1	7009.0	6751.7	6334.0	5809.7	5285.3	5004.1	5074.4	5530.3	5709.3	6470.6
20°	8053.5	7985.2	7708.0	7209.8	6536.9	5769.4	5227.1	5120.7	5548.5	5735.3	6599.2
22.5°	8816.9	8760.6	8511.6	8027.4	7252.0	6329.9	5526.5	5201.0	5606.7	5811.6	6757.8
25°	9487.8	9491.9	9244.8	8776.7	7975.2	6924.6	5912.1	5415.9	5755.4	5968.3	6974.8
27.5°	10317.6	10269.3	10038.3	9574.3	8690.4	7525.2	6378.1	5711.2	5976.4	6191.2	7260.1
30°	11309.9	11275.8	11008.6	10482.3	9483.8	8170.1	6910.5	6054.7	6261.6	6484.6	7633.7
32.5°	12477.1	12461.0	12183.7	11506.7	10400.0	8929.4	7535.3	6508.7	6687.5	6918.6	8170.1
35°	13847.1	13849.1	13521.7	12708.1	11402.3	9813.3	8244.3	7093.3	7205.7	7446.9	8808.9
37.5°	14690.9	14793.2	14670.8	13841.1	12537.3	10801.7	9164.4	7868.8	7796.4	8039.6	9493.9
40°	14871.6	14996.2	15383.9	14962.1	13807.0	11890.4	9980.1	8614.0	8523.7	8820.9	10375.8
42.5°	14618.6	14791.3	15610.9	15908.2	15155.0	13232.4	11076.9	9720.9	9606.4	10006.2	11472.7
45°	14467.9	14596.4	15544.7	16400.4	16324.1	14749.1	12473.0	11111.0	11068.8	11593.2	12738.2
47.5°	14206.7	14323.3	15235.2	16514.9	17011.1	16139.2	14150.5	12810.5	12892.9	13580.0	14166.5
50°	14347.3	14395.6	14889.8	16223.6	17210.0	17157.7	16024.7	14779.3	15060.6	15918.2	15783.7
52.5°	14327.2	14451.8	14849.5	15745.5	17236.0	17786.6	17870.9	16974.9	17567.6	18551.9	17577.6
55°	11583.1	11812.1	14377.4	15624.9	17328.5	18403.2	19514.1	19289.1	20394.0	21541.1	19602.5
57.5°	11060.9	11205.4	12627.7	15878.1	17818.6	19580.5	21342.1	21836.3	23684.5	25016.4	22069.4
60°	10958.3	11137.2	12609.6	16187.5	18813.1	21498.8	24052.2	24920.0	27688.2	29146.6	24930.0
62.5°	10638.9	10831.9	12491.2	16147.3	20225.3	24152.7	27521.5	28198.5	31484.9	32903.2	27322.6
65°	9626.5	9807.3	11524.8	15498.4	21177.5	26985.1	31627.6	31203.7	34482.2	35548.9	28515.9
66°	8933.5	9110.2	10763.4	14735.0	20956.5	27788.7	33081.9	32133.8	35153.2	35988.8	28282.9
67.5°	7665.8	7804.5	9285.0	13025.5	19781.3	28013.6	34305.4	32833.0	35223.4	35518.8	26951.0
70°	4843.4	4883.6	6034.6	8991.7	14974.1	24295.2	32443.2	31097.3	32318.7	31519.1	22593.7
72.5°	2101.3	2087.2	2896.8	4574.1	8477.4	16301.9	26243.8	25659.2	25351.9	23527.9	15815.9
75°	1169.2	1185.3	1504.6	2123.4	3445.2	8007.4	17167.8	16428.6	13871.2	11836.3	7171.7
77.5°	938.1	960.3	1247.5	1506.6	1546.8	2792.3	8033.5	6536.9	3935.4	3157.9	1992.8
80°	741.4	781.4	1088.8	1173.2	1042.6	1151.0	2595.5	2075.2	1556.8	1428.3	1032.6
82.5°	586.6	614.7	934.1	888.0	729.2	775.4	1243.5	1211.3	1012.5	922.0	596.7
85°	421.8	474.0	767.4	669.0	478.1	522.3	825.7	791.5	580.6	474.0	263.2
87.5°	172.7	225.0	542.4	443.9	267.1	243.1	411.8	387.8	275.3	200.9	130.6
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°	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8	6058.8
2.5°	6052.8	6100.9	6163.2	6201.3	6221.4	6235.5	6257.6	6255.6	6261.6	6263.7	6271.7
5°	6092.9	6173.2	6263.7	6287.8	6287.8	6265.7	6243.5	6207.3	6193.4	6189.3	6193.4
7.5°	6197.4	6285.8	6364.2	6336.0	6275.8	6187.4	6072.8	5972.3	5918.1	5900.0	5896.0
10°	6329.9	6436.4	6468.5	6362.0	6185.2	5972.3	5745.4	5580.6	5486.2	5460.1	5452.0
12.5°	6490.6	6591.1	6547.0	6321.8	5994.5	5650.9	5337.6	5074.4	4877.6	4815.3	4811.2
15°	6667.4	6745.7	6591.1	6197.4	5709.3	5202.9	4644.5	4190.5	3945.5	3867.0	3861.0
17.5°	6832.2	6872.3	6565.0	5980.5	5289.3	4469.7	3728.5	3379.0	3294.5	3314.6	3318.6
20°	6972.8	6972.8	6476.6	5669.0	4628.4	3503.5	3035.4	3029.3	3089.7	3150.0	3162.0
22.5°	7127.4	7035.1	6321.8	5229.0	3692.3	2866.6	2798.3	2854.6	2922.9	2989.3	2999.2
25°	7318.3	7085.3	6106.9	4562.1	2902.8	2603.5	2629.7	2675.8	2709.9	2752.1	2758.1
27.5°	7531.2	7149.6	5823.7	3644.2	2519.1	2438.7	2458.9	2474.9	2470.9	2487.0	2491.0
30°	7786.4	7223.9	5435.9	2848.6	2360.4	2298.2	2262.0	2247.9	2247.9	2274.0	2284.1
32.5°	8127.9	7334.3	4879.5	2440.8	2284.1	2197.8	2081.2	2029.0	2049.0	2137.4	2157.6
35°	8503.5	7452.9	4126.1	2302.2	2268.0	2151.6	1970.7	1874.3	1876.3	1958.7	1984.8
37.5°	8913.4	7603.6	3300.6	2276.1	2304.2	2153.5	1912.5	1779.9	1725.6	1725.6	1735.7
40°	9437.7	7758.3	2671.8	2294.1	2380.5	2177.6	1882.3	1705.5	1552.9	1556.8	1564.9
42.5°	10120.6	7890.8	2334.4	2332.2	2472.9	2209.8	1880.4	1607.1	1474.5	1564.9	1647.3
45°	10880.0	7957.2	2185.6	2366.4	2547.3	2229.9	1848.1	1591.1	1484.5	1753.7	1910.4
47.5°	11753.9	7919.0	2103.2	2378.5	2565.3	2229.9	1811.9	1629.2	1554.9	2030.9	2213.8
50°	12712.1	7808.4	2022.9	2354.4	2559.3	2225.8	1846.2	1667.4	1581.0	2079.2	2205.7
52.5°	13839.1	7716.1	1938.6	2302.2	2517.2	2203.8	1886.4	1651.2	1498.6	1890.3	1978.6
55°	15124.8	7742.2	1844.2	2227.8	2450.8	2161.5	1872.2	1587.0	1412.2	1665.3	1719.6
57.5°	16768.0	8053.5	1731.6	2133.4	2360.4	2091.2	1822.0	1556.8	1386.1	1510.6	1542.8
60°	18602.2	8596.0	1591.1	2039.0	2247.9	1978.6	1783.8	1570.9	1398.2	1498.6	1514.7
62.5°	19948.0	8911.3	1470.5	1900.3	2095.3	1854.1	1735.7	1589.0	1430.3	1540.8	1536.7
65°	20313.7	8393.1	1319.9	1697.5	1888.3	1723.6	1675.4	1609.1	1444.4	1575.0	1556.8
66°	19801.4	7834.6	1253.5	1603.1	1783.8	1659.3	1645.2	1607.1	1438.4	1579.1	1548.9
67.5°	18557.9	6689.5	1139.0	1464.5	1617.1	1562.9	1597.1	1589.0	1422.2	1575.0	1532.8
70°	15134.8	4564.2	974.3	1219.4	1346.0	1376.1	1504.6	1524.7	1370.0	1504.6	1412.2
72.5°	10574.6	2780.3	861.8	946.1	1088.8	1173.2	1378.1	1436.3	1299.7	1313.9	1225.5
75°	5110.6	1476.5	781.4	733.2	845.7	980.3	1225.5	1315.8	1189.3	1098.8	1066.7
77.5°	1593.0	901.9	662.8	590.6	662.8	791.5	1024.6	1153.1	1058.7	920.1	908.1
80°	855.8	662.8	510.2	474.0	524.3	620.7	805.6	962.2	910.0	825.7	737.3
82.5°	564.6	429.9	377.7	367.6	399.8	474.0	598.6	797.5	797.5	707.1	514.3
85°	291.2	263.2	259.2	259.2	279.2	315.4	407.7	614.7	654.9	373.6	309.3
87.5°	144.7	150.7	140.6	146.6	156.7	154.7	194.8	309.3	369.7	227.0	188.8
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)