

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: P193226

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193226
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-08-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38114 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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



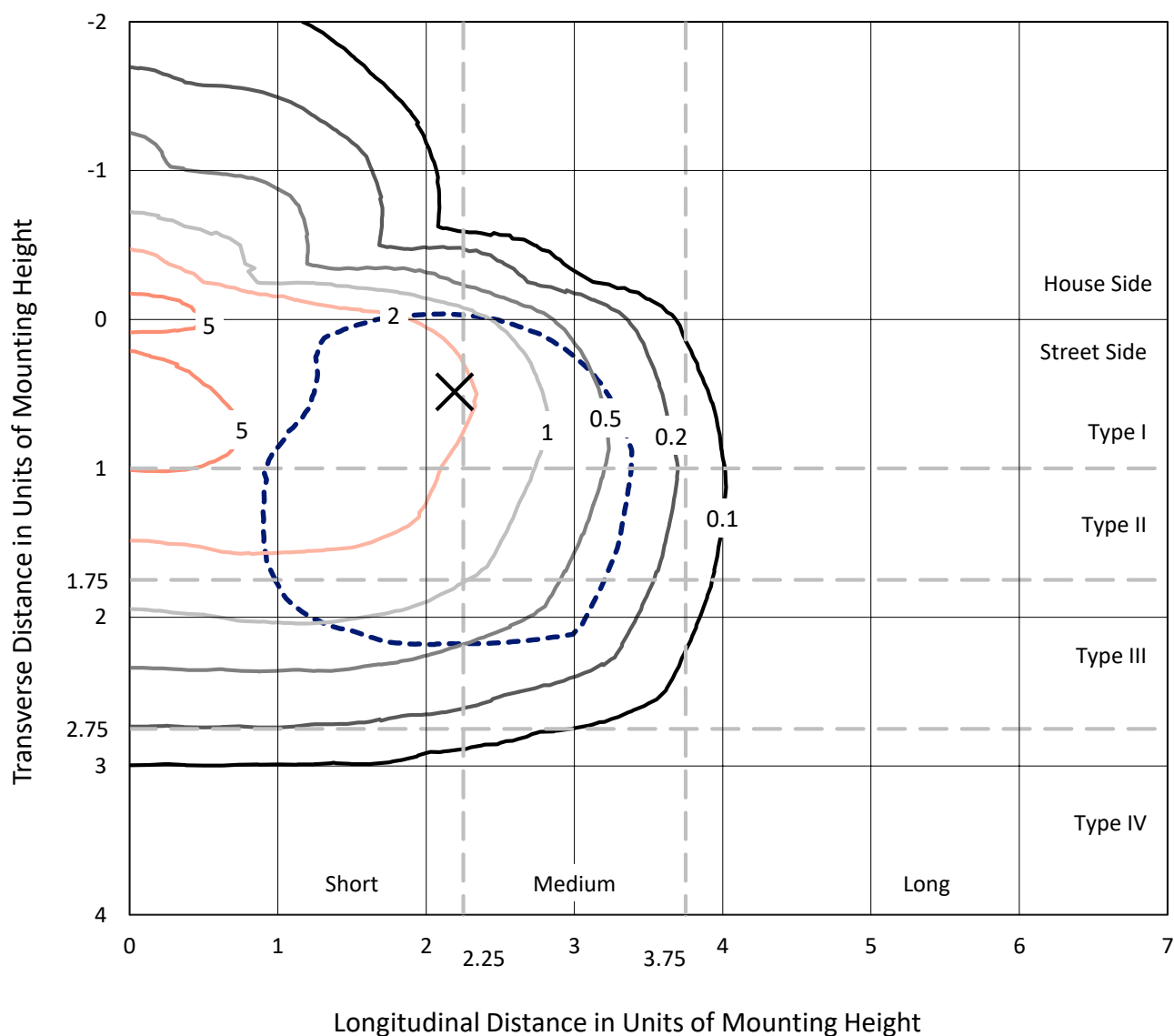
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

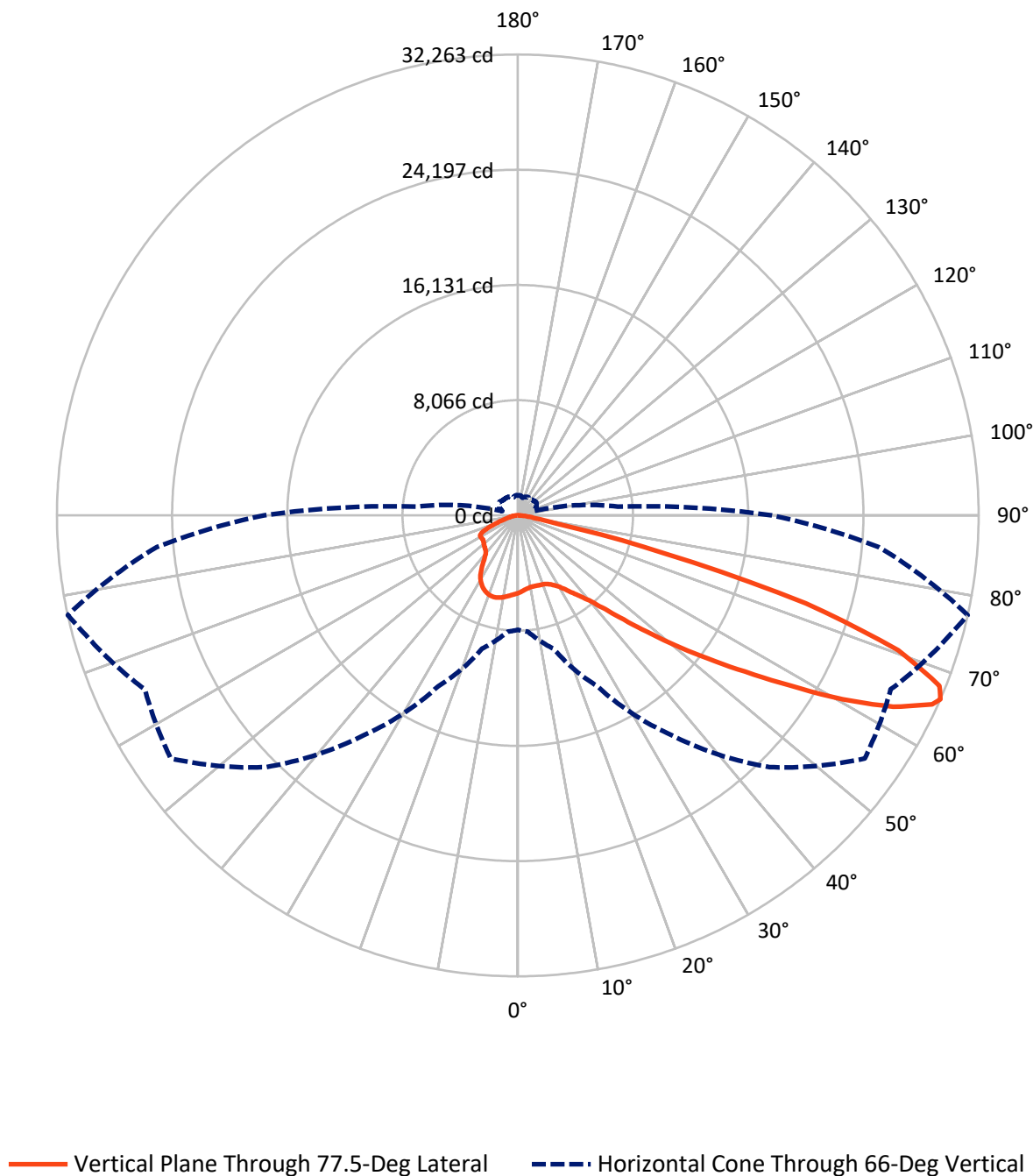


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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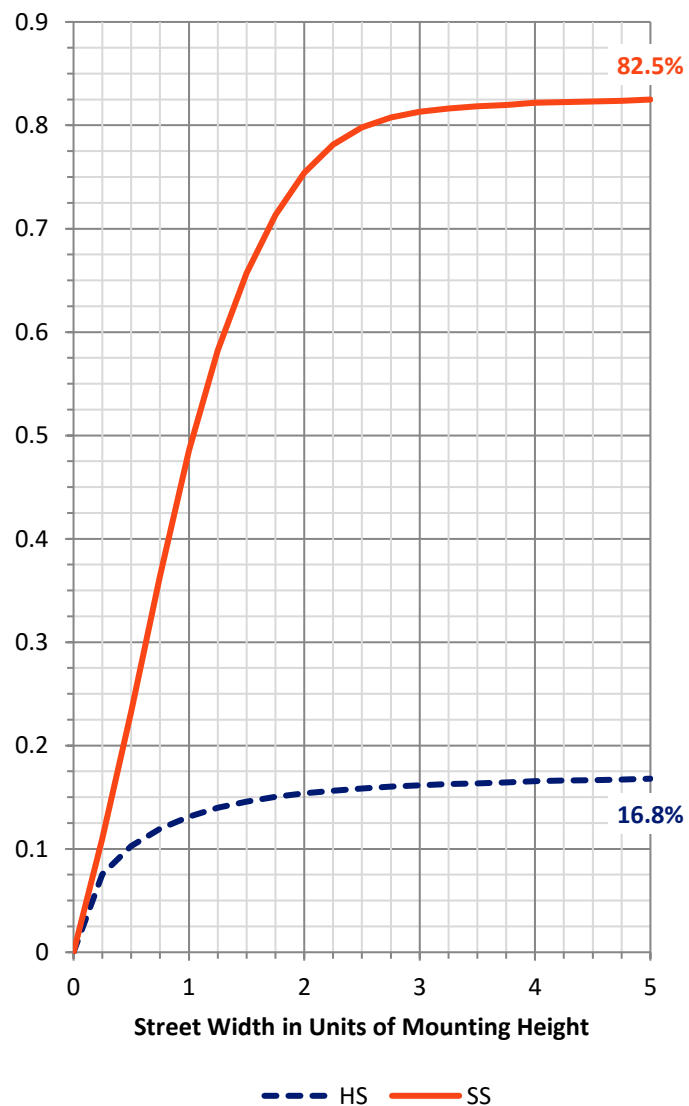
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6511.5	0.0	6511.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	31602.5	0.0	31602.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	38114.0	0.0	38114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.3	1.3
10°-20°	1369.0	3.6
20°-30°	2336.4	6.1
30°-40°	3740.1	9.8
40°-50°	5778.1	15.2
50°-60°	8195.4	21.5
60°-70°	10963.2	28.8
70°-80°	4761.1	12.5
80°-90°	485.5	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°	38114.0	100.0
0°-180°	38114.0	100.0

Coefficient of Utilization



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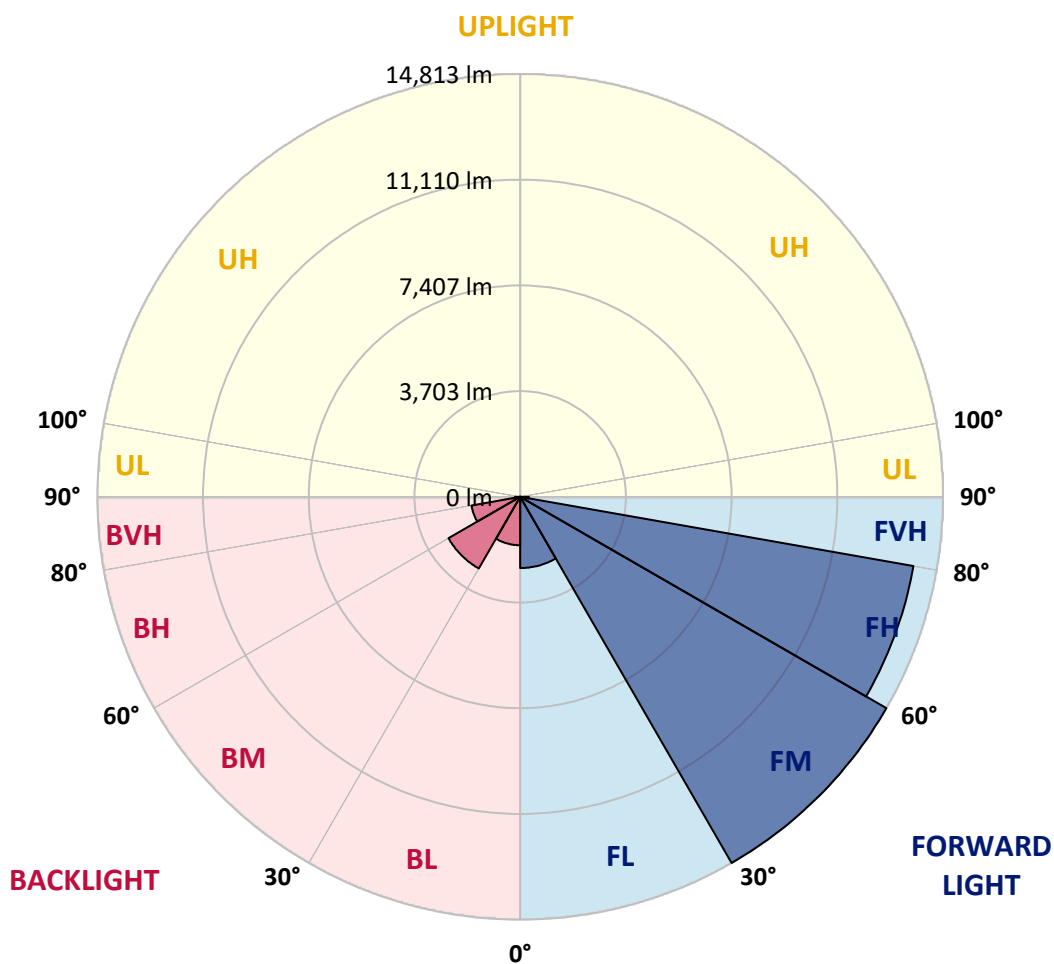
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2494.7	6.5			
FM	(30°-60°)	14813.1	38.9			
FH	(60°-80°)	13990.2	36.7			G5
FVH	(80°-90°)	304.5	0.8			G3/500
BL	(0°-30°)	1695.9	4.4	B3/2500		
BM	(30°-60°)	2900.5	7.6	B3/5000		
BH	(60°-80°)	1734.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	181.0	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°	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4
2.5°	4804.6	4837.1	4864.1	4889.4	4939.8	5022.6	5118.0	5195.5	5307.2	5328.8	5388.2
5°	4363.5	4363.5	4385.1	4423.0	4491.3	4615.6	4745.3	4918.2	5161.3	5218.9	5377.4
7.5°	4149.2	4151.0	4163.7	4196.0	4255.4	4368.9	4511.2	4714.6	5044.3	5139.7	5409.9
10°	4228.5	4210.5	4183.4	4167.2	4176.2	4242.9	4377.9	4604.8	4972.2	5094.6	5481.9
12.5°	4671.5	4637.3	4543.5	4419.3	4300.5	4251.9	4331.1	4552.7	4941.6	5083.9	5577.2
15°	5395.4	5381.0	5206.3	4948.8	4660.7	4419.3	4365.4	4532.8	4945.2	5096.5	5690.8
17.5°	6303.0	6283.3	6052.8	5678.1	5208.2	4738.1	4485.9	4549.0	4957.7	5118.0	5800.6
20°	7219.8	7158.4	6910.0	6463.3	5860.0	5172.2	4685.9	4590.4	4974.0	5141.5	5915.9
22.5°	7904.1	7853.5	7630.3	7196.3	6501.2	5674.6	4954.2	4662.4	5026.3	5209.9	6058.1
25°	8505.5	8509.1	8287.7	7868.0	7149.5	6207.6	5299.9	4855.2	5159.4	5350.4	6252.6
27.5°	9249.3	9206.0	8998.9	8583.0	7790.5	6746.1	5717.7	5119.9	5357.6	5550.3	6508.3
30°	10138.9	10108.3	9868.8	9397.0	8501.9	7324.2	6195.0	5427.8	5613.3	5813.2	6843.4
32.5°	11185.2	11170.7	10922.3	10315.3	9323.1	8004.9	6755.1	5834.8	5995.0	6202.2	7324.2
35°	12413.4	12415.2	12121.7	11392.4	10221.8	8797.2	7390.8	6358.9	6459.7	6675.8	7896.8
37.5°	13169.8	13261.6	13151.7	12408.0	11239.3	9683.3	8215.5	7054.0	6989.2	7207.1	8511.0
40°	13331.9	13443.5	13791.0	13412.8	12377.4	10659.4	8946.7	7722.1	7641.0	7907.6	9301.5
42.5°	13104.9	13259.8	13994.6	14261.1	13585.8	11862.4	9930.0	8714.4	8611.9	8970.1	10284.8
45°	12969.8	13085.1	13935.2	14702.4	14633.8	13222.0	11181.6	9960.6	9922.8	10392.8	11419.3
47.5°	12735.8	12840.2	13657.9	14804.9	15249.8	14468.2	12685.3	11484.1	11558.0	12173.8	12699.7
50°	12861.8	12905.0	13348.1	14543.8	15428.1	15381.2	14365.5	13249.0	13501.1	14270.2	14149.4
52.5°	12843.9	12955.4	13312.0	14115.2	15451.5	15944.9	16020.5	15217.4	15748.6	16631.0	15757.6
55°	10383.8	10589.1	12888.9	14007.1	15534.3	16497.8	17493.6	17291.9	18282.5	19310.7	17572.9
57.5°	9915.6	10045.3	11320.3	14234.1	15973.7	17553.0	19132.5	19575.4	21232.3	22426.2	19784.3
60°	9823.7	9984.0	11304.1	14511.4	16865.1	19272.9	21561.9	22339.8	24821.4	26128.8	22348.8
62.5°	9537.5	9710.3	11197.8	14475.4	18131.1	21651.9	24672.0	25278.8	28225.1	29496.5	24493.6
65°	8629.8	8791.9	10331.5	13893.7	18984.8	24191.1	28352.9	27972.9	30911.9	31868.2	25563.4
66°	8008.4	8166.9	9649.0	13209.3	18786.7	24911.4	29656.8	28806.7	31513.4	32262.6	25354.4
67.5°	6872.1	6996.4	8323.6	11676.9	17733.3	25113.1	30753.4	29433.5	31576.5	31841.2	24160.5
70°	4341.9	4377.9	5409.9	8060.7	13423.7	21779.7	29084.0	27877.5	28972.4	28255.6	20254.4
72.5°	1883.7	1871.1	2596.9	4100.6	7599.6	14614.1	23526.6	23002.6	22727.0	21091.9	14178.2
75°	1048.2	1062.5	1348.8	1903.6	3088.5	7178.3	15390.3	14727.5	12435.1	10610.7	6429.2
77.5°	841.0	860.9	1118.4	1350.7	1386.7	2503.2	7201.8	5860.0	3527.9	2831.0	1786.5
80°	664.6	700.6	976.1	1051.7	934.6	1031.9	2326.6	1860.2	1395.7	1280.4	925.7
82.5°	525.9	551.1	837.4	796.0	653.7	695.1	1114.8	1085.9	907.6	826.5	534.9
85°	378.1	425.0	687.9	599.8	428.7	468.1	740.1	709.5	520.4	425.0	235.9
87.5°	154.8	201.7	486.2	398.0	239.5	217.9	369.2	347.6	246.7	180.1	117.0
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°	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4	5431.4
2.5°	5426.1	5469.2	5525.0	5559.3	5577.2	5589.9	5609.7	5607.9	5613.3	5615.2	5622.4
5°	5462.1	5534.1	5615.2	5636.6	5636.6	5616.9	5597.2	5564.7	5552.1	5548.5	5552.1
7.5°	5555.8	5634.9	5705.2	5680.0	5625.9	5546.6	5444.1	5354.0	5305.4	5289.1	5285.5
10°	5674.6	5770.0	5798.8	5703.4	5544.9	5354.0	5150.5	5002.9	4918.2	4894.9	4887.6
12.5°	5818.6	5908.6	5869.1	5667.4	5373.8	5065.8	4784.9	4549.0	4372.5	4316.8	4313.1
15°	5977.1	6047.3	5908.6	5555.8	5118.0	4664.3	4163.7	3756.7	3536.9	3466.7	3461.3
17.5°	6124.7	6160.8	5885.2	5361.3	4741.8	4007.0	3342.5	3029.1	2953.4	2971.5	2975.0
20°	6250.8	6250.8	5806.0	5082.0	4149.2	3140.7	2721.1	2715.7	2769.7	2823.8	2834.6
22.5°	6389.5	6306.7	5667.4	4687.7	3310.0	2569.9	2508.6	2559.1	2620.2	2679.7	2688.7
25°	6560.6	6351.7	5474.7	4089.8	2602.2	2333.9	2357.4	2398.8	2429.4	2467.2	2472.6
27.5°	6751.4	6409.2	5220.7	3266.8	2258.3	2186.3	2204.3	2218.6	2215.1	2229.4	2233.0
30°	6980.1	6475.9	4873.2	2553.6	2116.1	2060.2	2027.8	2015.2	2015.2	2038.6	2047.6
32.5°	7286.3	6575.0	4374.3	2188.0	2047.6	1970.2	1865.7	1818.8	1836.8	1916.1	1934.1
35°	7623.1	6681.2	3699.0	2063.8	2033.2	1928.8	1766.6	1680.2	1682.0	1755.8	1779.3
37.5°	7990.4	6816.2	2958.8	2040.4	2065.5	1930.5	1714.4	1595.6	1547.0	1547.0	1556.0
40°	8460.5	6955.0	2395.2	2056.6	2134.1	1952.1	1687.4	1529.0	1392.1	1395.7	1402.9
42.5°	9072.8	7073.8	2092.7	2090.7	2216.9	1981.0	1685.7	1440.7	1321.8	1402.9	1476.7
45°	9753.5	7133.2	1959.3	2121.4	2283.5	1999.0	1656.8	1426.3	1330.9	1572.1	1712.6
47.5°	10536.9	7099.0	1885.5	2132.2	2299.7	1999.0	1624.3	1460.5	1393.8	1820.7	1984.5
50°	11396.0	7000.0	1813.4	2110.7	2294.3	1995.4	1655.0	1494.7	1417.3	1863.9	1977.4
52.5°	12406.2	6917.1	1737.9	2063.8	2256.5	1975.5	1691.0	1480.4	1343.5	1694.6	1773.9
55°	13558.7	6940.5	1653.2	1997.2	2197.1	1937.7	1678.4	1422.7	1266.0	1492.9	1541.5
57.5°	15031.9	7219.8	1552.3	1912.5	2116.1	1874.7	1633.4	1395.7	1242.6	1354.3	1383.1
60°	16676.0	7705.9	1426.3	1827.9	2015.2	1773.9	1599.2	1408.3	1253.4	1343.5	1357.9
62.5°	17882.7	7988.7	1318.2	1703.6	1878.2	1662.2	1556.0	1424.5	1282.2	1381.2	1377.6
65°	18210.5	7524.0	1183.2	1521.8	1692.9	1545.2	1501.9	1442.5	1294.8	1411.8	1395.7
66°	17751.2	7023.4	1123.7	1437.1	1599.2	1487.6	1474.9	1440.7	1289.5	1415.5	1388.4
67.5°	16636.5	5996.9	1021.1	1312.9	1449.7	1401.0	1431.8	1424.5	1275.0	1411.8	1374.1
70°	13567.7	4091.5	873.4	1093.1	1206.5	1233.6	1348.8	1366.9	1228.2	1348.8	1266.0
72.5°	9479.8	2492.4	772.6	848.2	976.1	1051.7	1235.4	1287.6	1165.1	1177.9	1098.5
75°	4581.5	1323.6	700.6	657.3	758.1	878.8	1098.5	1179.6	1066.2	985.1	956.2
77.5°	1428.1	808.6	594.3	529.5	594.3	709.5	918.5	1033.7	949.0	824.8	814.0
80°	767.2	594.3	457.5	425.0	470.1	556.4	722.2	862.6	815.8	740.1	660.9
82.5°	506.1	385.3	338.6	329.5	358.4	425.0	536.7	715.0	715.0	633.9	461.1
85°	261.1	235.9	232.2	232.2	250.3	282.8	365.6	551.1	587.0	335.0	277.3
87.5°	129.7	135.1	126.0	131.4	140.5	138.6	174.7	277.3	331.4	203.5	169.3
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)