

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: P192706

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38244 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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



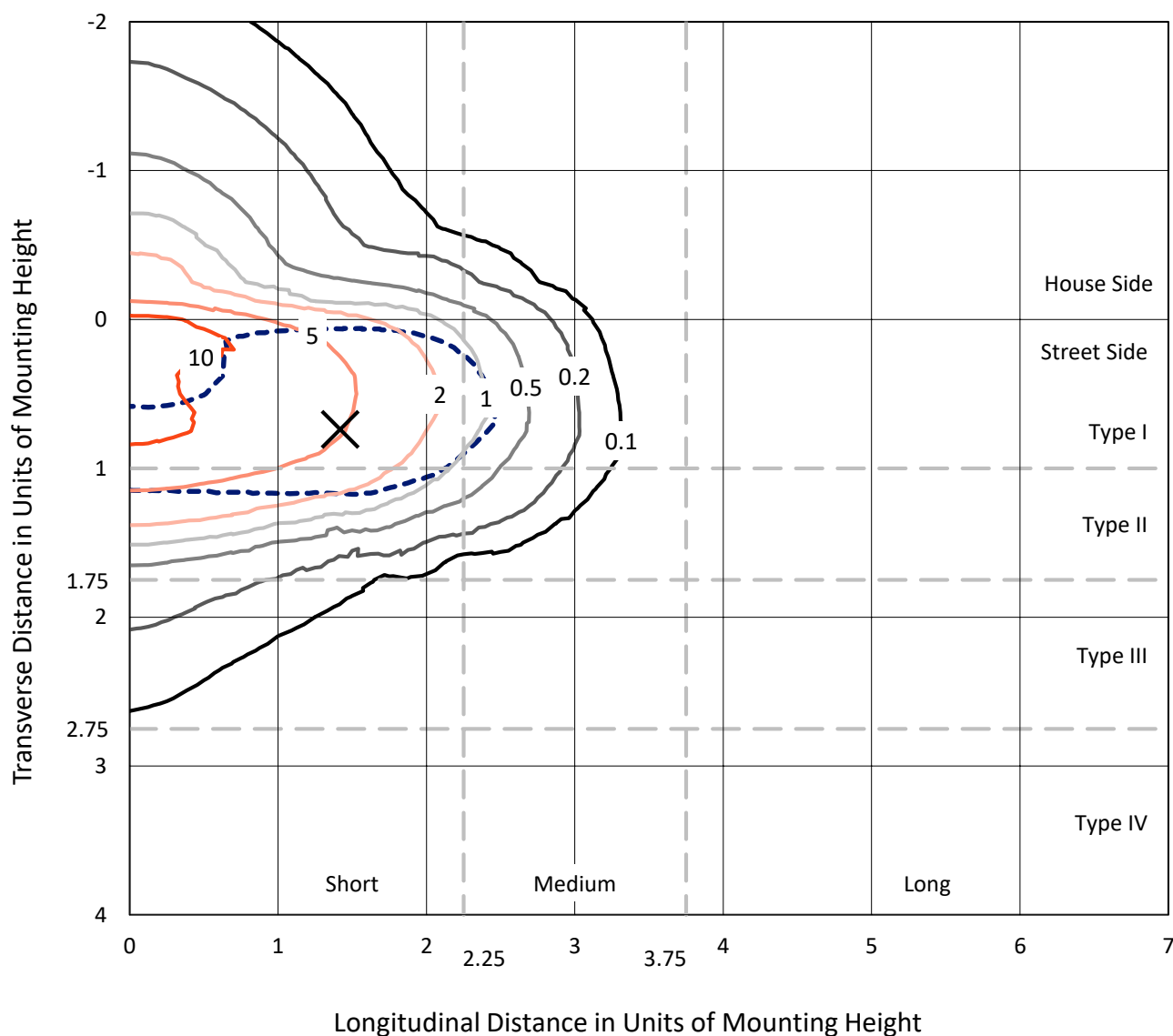
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

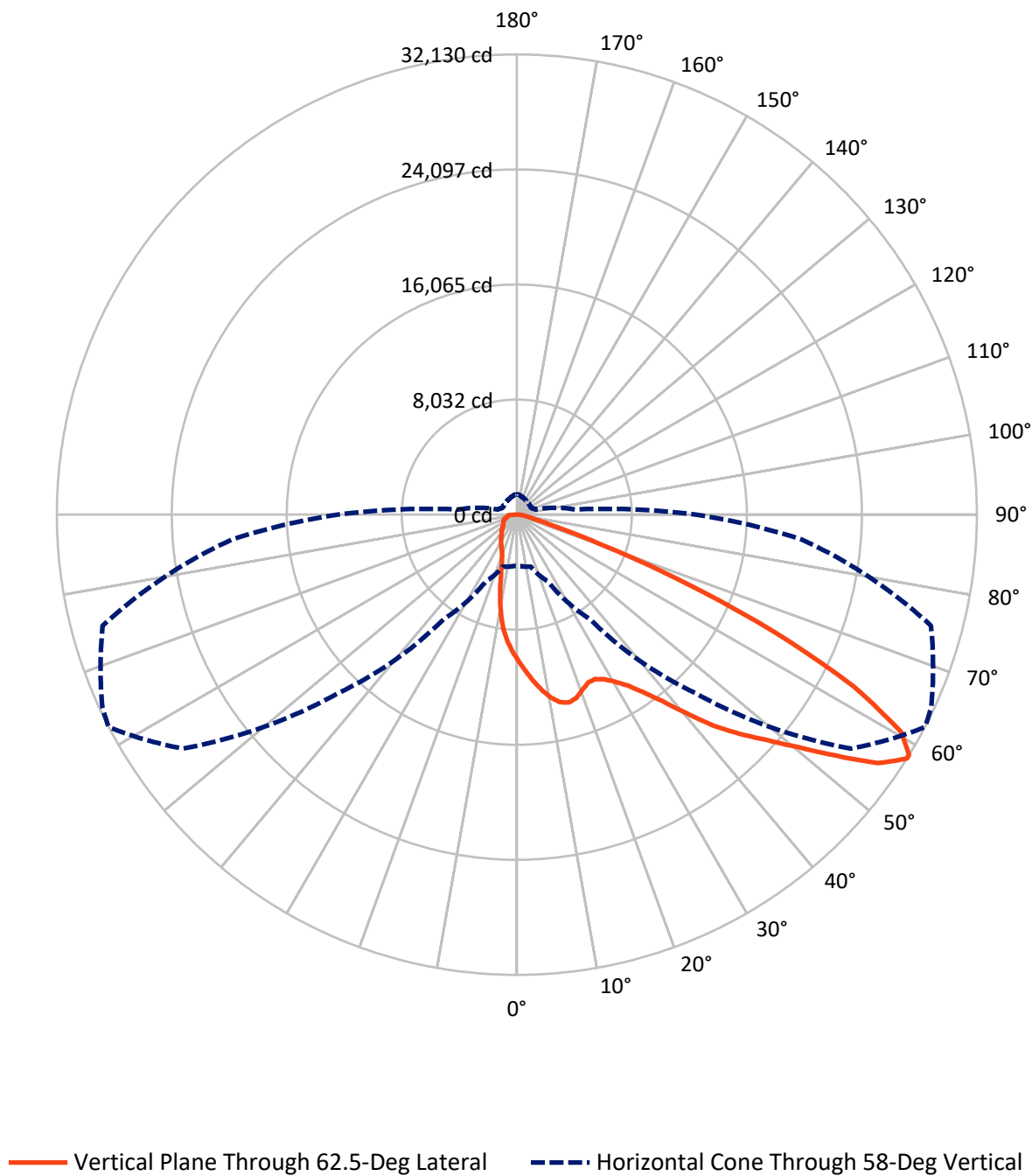


Based on 30 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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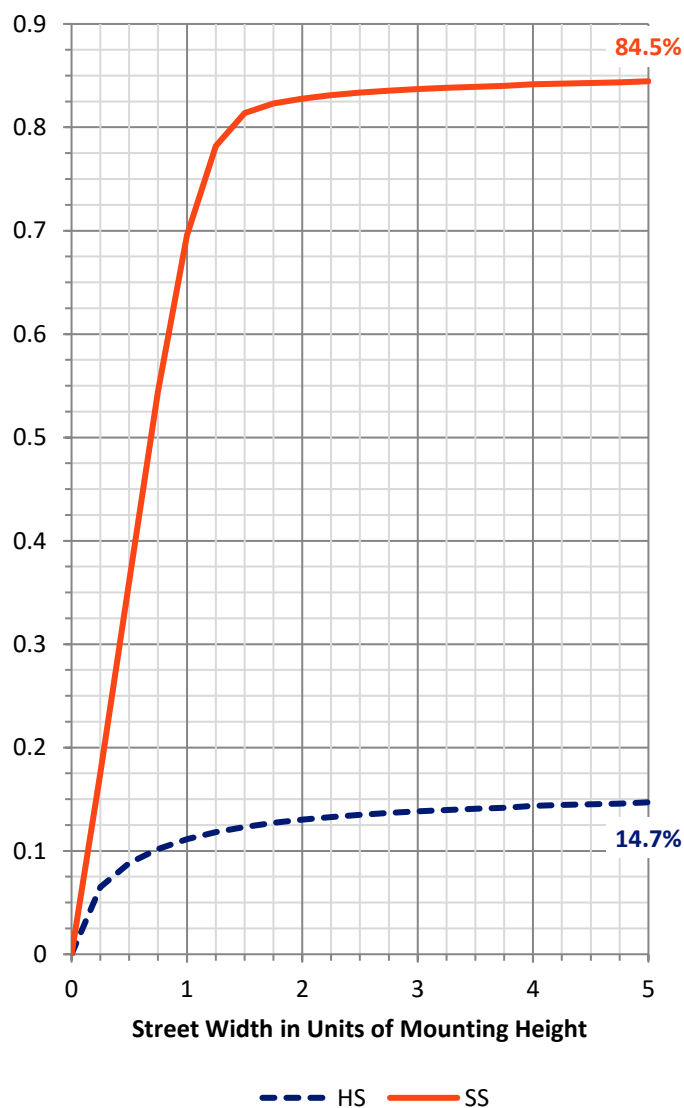
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5832.4	0.0	5832.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	32411.7	0.0	32411.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	38244.0	0.0	38244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.6	2.4
10°-20°	2322.4	6.1
20°-30°	3754.2	9.8
30°-40°	5959.8	15.6
40°-50°	8720.4	22.8
50°-60°	9120.9	23.8
60°-70°	5388.6	14.1
70°-80°	1518.0	4.0
80°-90°	551.1	1.4
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°	38244.0	100.0
0°-180°	38244.0	100.0

Coefficient of Utilization



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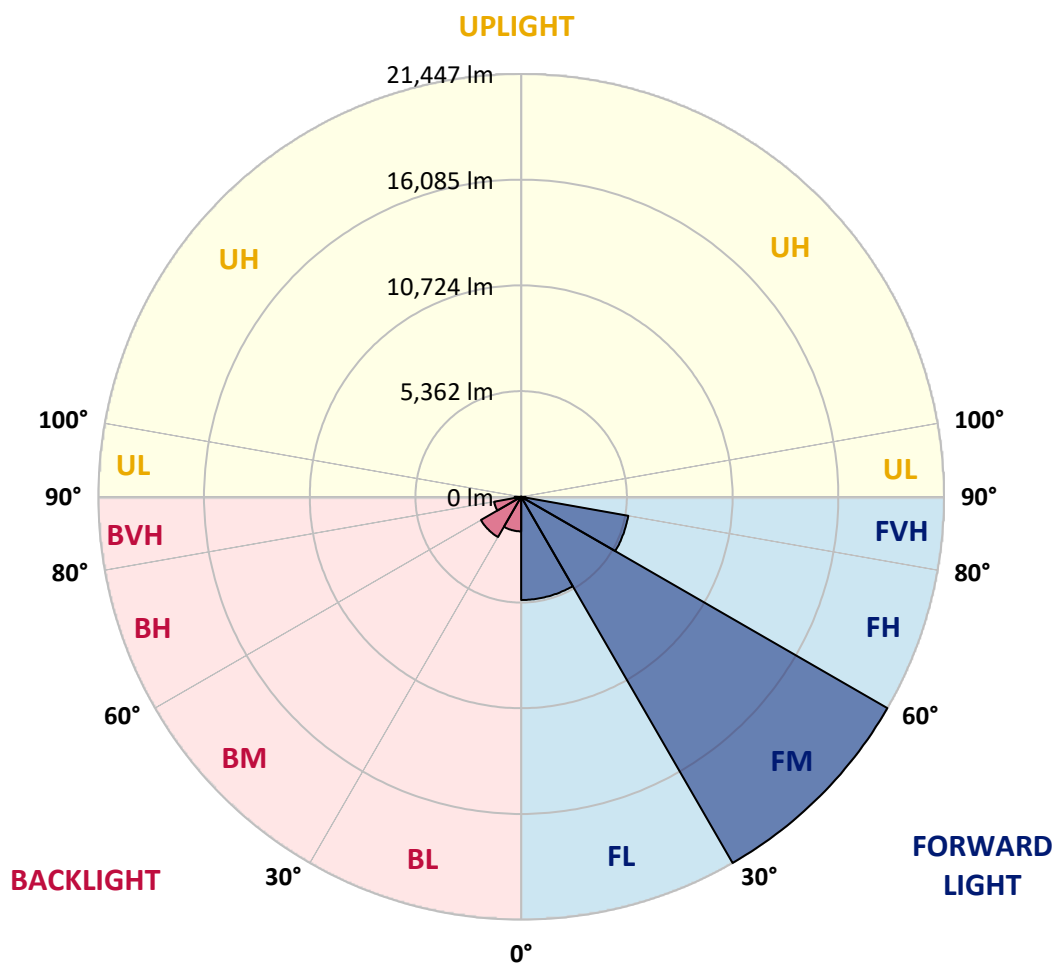
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5232.3	13.7			
FM	(30°-60°)	21447.0	56.1			
FH	(60°-80°)	5514.9	14.4			G3/7500
FVH	(80°-90°)	217.4	0.6			G2/225
BL	(0°-30°)	1752.9	4.6	B3/2500		
BM	(30°-60°)	2354.1	6.2	B2/2500		
BH	(60°-80°)	1391.7	3.6	B3/2500		G3/2500
BVH	(80°-90°)	333.7	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7
2.5°	11608.5	11514.9	11455.4	11403.2	11334.7	11188.8	10992.6	10868.2	10805.3	10590.9	10337.0
5°	12746.6	12663.8	12602.5	12532.2	12409.8	12181.1	11864.1	11612.1	11487.7	11059.2	10551.3
7.5°	12480.0	12514.3	12620.5	12806.1	12964.4	12933.9	12651.1	12330.6	12166.7	11570.7	10799.8
10°	10873.7	10933.1	11116.8	11550.8	12253.2	12973.6	13193.3	12971.7	12806.1	12076.7	11055.6
12.5°	10551.3	10549.5	10563.9	10679.2	11097.0	12110.9	13211.2	13434.5	13335.5	12559.4	11316.7
15°	10682.9	10686.4	10675.6	10724.3	10854.0	11255.5	12660.2	13612.8	13683.1	13045.5	11586.8
17.5°	11028.5	11019.6	10978.2	10978.2	11025.0	11181.6	12011.9	13447.2	13771.2	13475.9	11824.6
20°	11608.5	11567.1	11457.2	11356.3	11305.9	11390.5	11745.4	13065.3	13618.2	13852.3	12020.8
22.5°	12310.8	12278.3	12100.1	11884.0	11709.4	11707.4	11882.2	12732.2	13353.4	14207.1	12186.6
25°	13218.4	13166.2	12901.5	12555.7	12249.6	12132.4	12181.1	12716.0	13209.5	14592.4	12334.2
27.5°	14284.5	14189.1	13875.7	13376.9	12926.7	12690.8	12620.5	13009.5	13340.9	15069.7	12539.4
30°	15577.5	15467.8	15066.1	14416.0	13780.4	13393.1	13243.7	13530.0	13776.7	15651.4	12869.1
32.5°	17049.0	16890.4	16425.8	15709.1	14873.5	14282.7	14039.6	14217.9	14414.2	16352.0	13281.4
35°	19082.1	18893.0	18221.2	17232.6	16288.9	15476.7	15087.7	15217.4	15408.3	17396.5	13877.6
37.5°	20468.7	20384.2	19937.5	19008.3	17981.8	17047.0	16445.6	16521.2	16629.3	18702.1	14641.2
40°	20456.2	20490.4	20499.3	20508.4	19809.7	18914.6	18268.0	18188.8	18167.2	20135.6	15509.2
42.5°	19431.4	19571.9	20025.8	20946.0	21371.0	20960.4	20367.9	20139.2	20025.8	21824.9	16429.5
45°	17862.9	17938.5	18788.5	20585.9	22170.6	22986.4	22538.0	21817.7	21612.3	23377.2	17192.9
47.5°	17054.3	17137.1	17672.0	19631.3	22161.6	24623.4	24882.7	23510.4	23143.1	24727.9	17852.1
50°	15129.1	15302.1	15975.6	17971.0	21353.0	25376.1	27333.7	25527.5	24767.4	26042.5	18513.0
52.5°	11594.0	11860.5	12615.2	15240.8	19301.7	25003.3	29294.8	27973.0	26899.7	27404.0	19080.3
55°	7313.4	7511.5	8145.4	10763.7	15440.7	23063.9	30038.6	30618.5	29664.0	28693.3	19571.9
57.5°	3976.4	4064.6	4302.3	5942.9	10043.4	18775.9	28954.5	32124.1	31727.8	29788.3	19942.9
58°	3558.6	3618.0	3765.6	5150.5	8907.2	17603.6	28473.6	32129.5	31931.3	29948.6	19971.7
60°	2640.0	2609.4	2478.0	2939.1	4957.8	12161.3	25567.0	30843.6	31425.2	30144.8	19831.2
62.5°	2319.6	2245.8	1977.4	1946.8	2411.4	5602.5	19562.9	26420.6	27794.7	29024.7	18977.7
65°	2179.0	2099.9	1754.0	1642.3	1739.6	2370.0	11523.8	19815.0	21538.5	25628.3	16795.0
67.5°	2074.7	1971.9	1611.8	1458.7	1465.9	1566.8	4619.3	12480.0	14419.6	19458.4	13063.6
70°	1973.8	1862.1	1491.2	1314.6	1273.2	1239.0	1836.8	6247.2	8006.7	12291.0	8329.1
72.5°	1865.7	1755.9	1384.9	1201.2	1120.1	1006.8	1199.3	2555.5	3569.4	5815.0	3778.1
75°	1709.1	1609.9	1278.7	1100.4	985.1	833.7	905.9	1334.5	1600.9	2316.0	1820.7
77.5°	1516.3	1435.3	1159.8	1017.5	873.4	677.1	697.0	925.7	1026.5	1325.5	1082.3
80°	1089.6	1118.4	1032.0	914.8	777.9	549.2	534.9	675.3	729.3	851.7	704.1
82.5°	765.4	781.5	853.7	747.4	642.9	432.2	394.4	475.4	507.8	560.1	380.0
85°	527.6	509.7	585.3	520.4	464.7	288.1	270.1	322.4	342.2	347.6	196.3
87.5°	317.0	317.0	338.6	279.1	250.3	149.4	145.9	183.7	196.3	187.3	108.0
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°	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7	10158.7
2.5°	10185.8	10057.9	9786.0	9568.1	9292.5	9006.1	8845.9	8674.8	8557.7	8473.2	8608.2
5°	10263.2	10002.0	9440.2	8907.2	8318.2	7705.9	7241.3	6809.1	6508.3	6321.0	6497.5
7.5°	10385.6	9984.1	9089.1	8177.7	7120.7	6101.4	5190.2	4619.3	4286.1	4122.3	4224.8
10°	10526.1	9955.2	8676.6	7189.2	5676.3	4392.3	3711.6	3481.1	3405.5	3374.8	3389.2
12.5°	10643.2	9894.0	8170.6	5993.3	4262.6	3468.4	3272.2	3266.8	3283.0	3286.6	3292.0
15°	10726.0	9804.0	7419.6	4747.1	3409.1	3160.6	3149.7	3182.1	3212.8	3225.4	3232.6
17.5°	10781.8	9618.5	6571.4	3753.0	3054.3	3011.0	3036.4	3077.8	3110.1	3119.2	3126.4
20°	10776.5	9346.6	5561.1	3130.0	2861.6	2861.6	2904.7	2937.2	2939.1	2928.2	2933.6
22.5°	10720.6	8973.8	4581.5	2798.5	2690.5	2721.1	2764.4	2733.7	2607.7	2524.9	2530.2
25°	10627.0	8529.0	3742.2	2587.8	2532.1	2586.0	2573.5	2342.9	2162.9	2081.8	2081.8
27.5°	10544.2	8003.1	3097.5	2404.1	2373.5	2440.2	2216.9	2007.9	1932.4	1894.5	1881.9
30°	10484.7	7435.8	2667.1	2227.7	2224.1	2175.5	1923.3	1865.7	1853.1	1822.5	1811.6
32.5°	10499.2	6861.4	2391.5	2072.7	2085.4	1862.1	1782.9	1795.4	1784.6	1752.3	1737.9
35°	10618.0	6315.6	2211.5	1932.4	1894.5	1682.0	1700.1	1723.4	1719.8	1674.8	1660.4
37.5°	10830.5	5798.8	2092.7	1815.3	1653.2	1592.0	1620.8	1656.8	1647.8	1617.1	1606.3
40°	11053.8	5312.6	1995.4	1723.4	1510.9	1530.7	1556.0	1575.7	1584.8	1593.8	1586.6
42.5°	11271.7	4804.7	1876.5	1629.8	1451.5	1473.2	1484.0	1503.7	1552.3	1586.6	1584.8
45°	11401.3	4327.5	1754.0	1496.6	1404.6	1417.3	1410.1	1449.7	1509.1	1564.9	1566.8
47.5°	11545.4	3956.5	1656.8	1374.1	1359.6	1368.7	1347.0	1386.7	1440.7	1509.1	1516.3
50°	11720.1	3735.0	1579.4	1276.8	1298.4	1298.4	1293.1	1329.0	1404.6	1484.0	1498.4
52.5°	11918.2	3691.8	1514.6	1206.5	1237.3	1235.4	1240.8	1294.8	1377.6	1455.2	1467.7
55°	12159.6	3808.9	1444.3	1154.4	1177.9	1185.0	1203.0	1264.2	1334.5	1422.7	1428.1
57.5°	12440.5	4046.5	1388.4	1113.0	1123.7	1147.1	1175.9	1231.8	1307.4	1404.6	1410.1
58°	12487.2	4097.0	1379.5	1109.3	1113.0	1139.9	1172.4	1226.4	1302.1	1408.3	1413.7
60°	12489.1	4264.5	1359.6	1093.1	1071.5	1116.5	1152.5	1206.5	1293.1	1420.9	1433.5
62.5°	12046.1	4262.6	1345.3	1069.7	1028.3	1084.2	1125.6	1188.6	1284.1	1451.5	1476.7
65°	10607.2	3873.7	1276.8	1033.7	994.0	1055.3	1102.1	1175.9	1309.3	1584.8	1600.9
67.5°	8296.6	3175.0	1149.0	983.3	949.0	1026.5	1087.6	1174.2	1336.2	1615.4	1626.3
70°	5485.5	2375.4	1008.5	925.7	902.3	992.3	1094.9	1235.4	1305.6	1550.6	1521.8
72.5°	2847.2	1667.7	895.1	853.7	848.2	961.7	1199.3	1228.2	1275.0	1458.7	1422.7
75°	1494.7	1157.9	796.0	774.4	783.4	954.5	1415.5	1195.8	1235.4	1395.7	1464.1
77.5°	914.8	934.6	711.4	702.3	720.3	932.8	1413.7	1154.4	1177.9	1284.1	1359.6
80°	612.3	758.1	646.5	648.4	660.9	853.7	1269.6	1089.6	1107.6	1213.8	1291.2
82.5°	387.3	448.4	587.0	617.8	601.5	704.1	1078.7	992.3	1017.5	1388.4	1467.7
85°	196.3	280.9	509.7	594.3	542.0	493.5	875.2	869.8	882.4	1001.3	1046.2
87.5°	90.0	154.9	398.0	518.7	408.8	308.0	635.7	644.7	695.1	711.4	711.4
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)