

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: P193228

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193228
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-10-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 47071.1 lumens
Efficiency: N/A
Efficacy: 112.3 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): 419
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



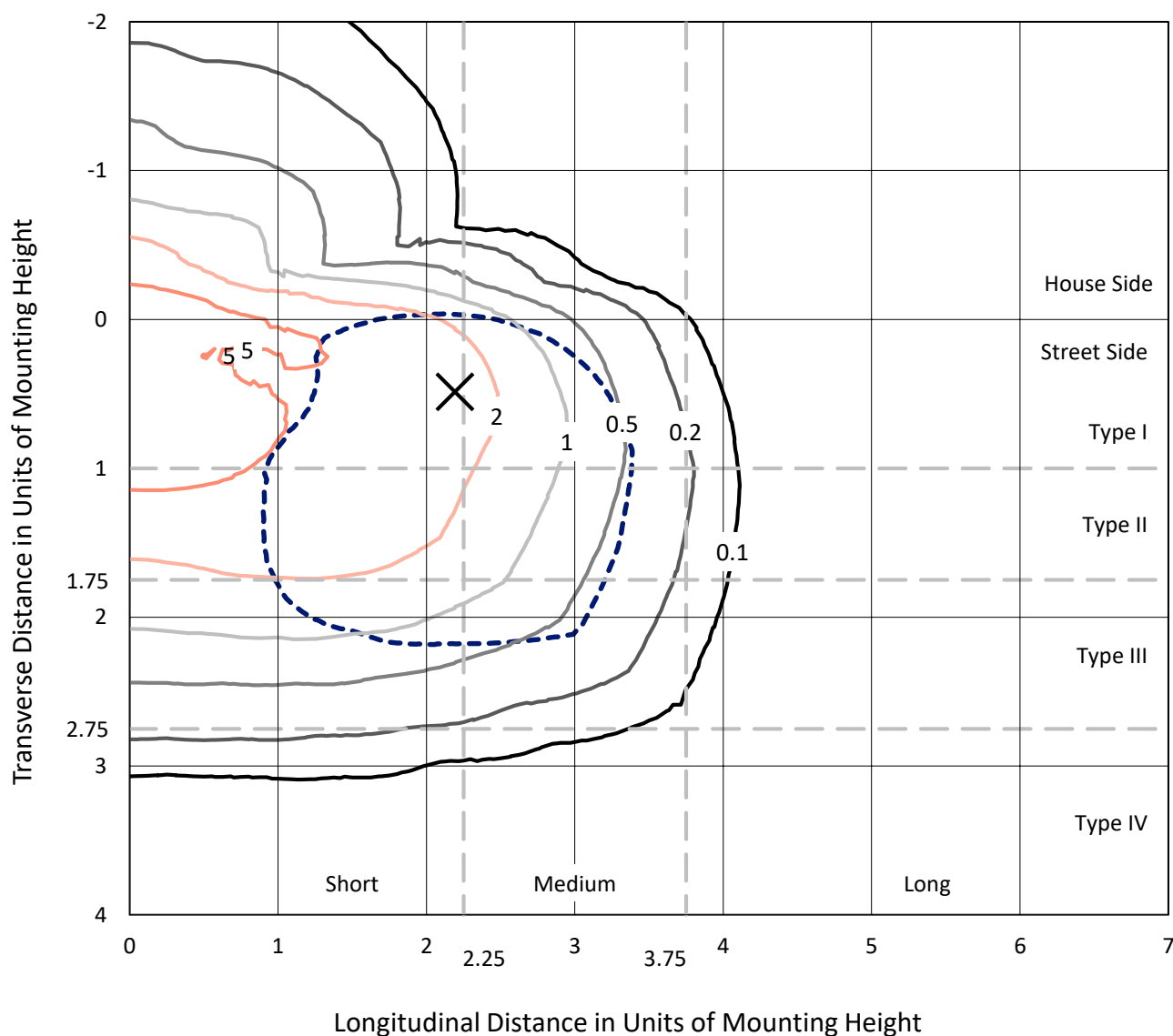
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

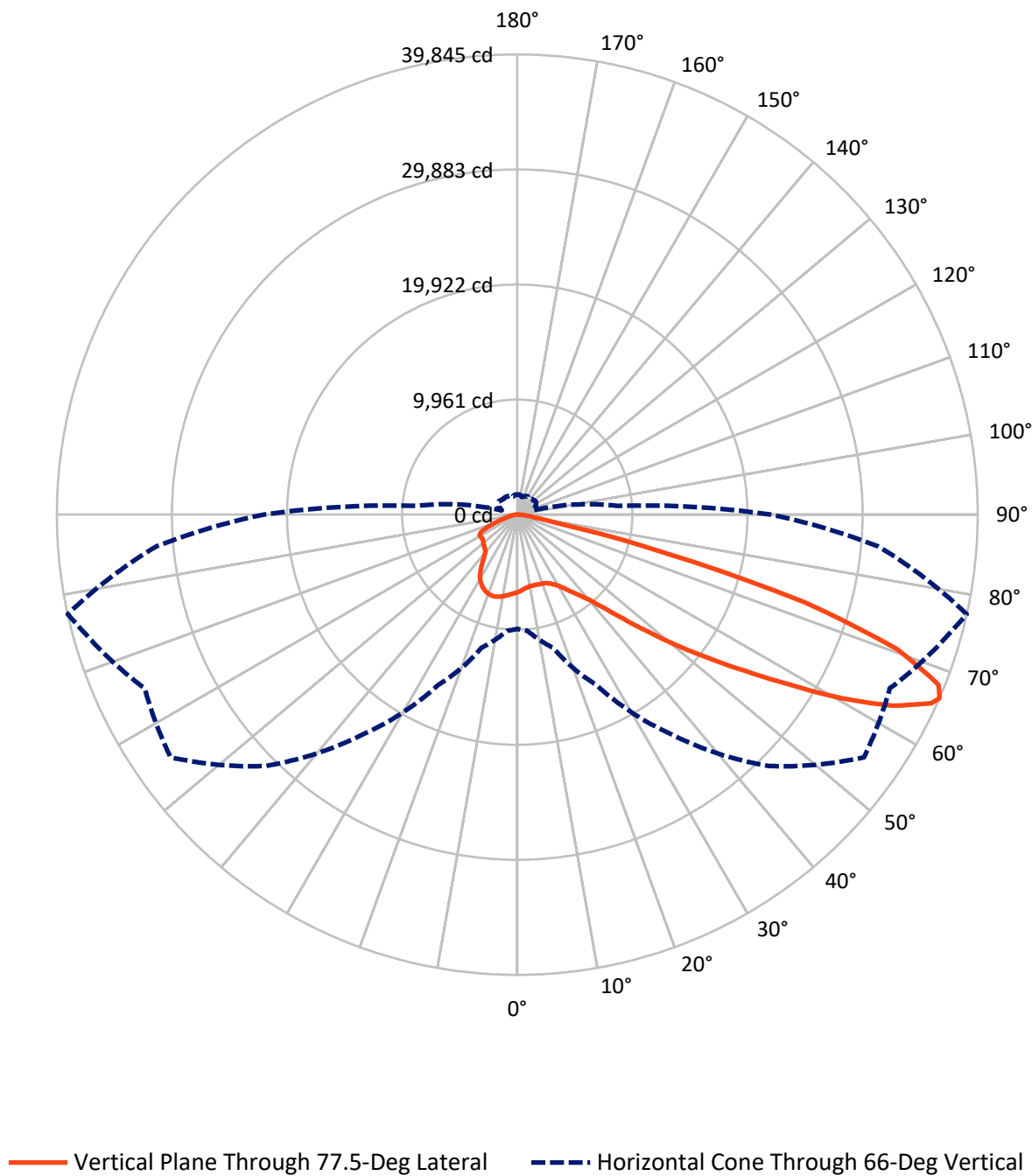


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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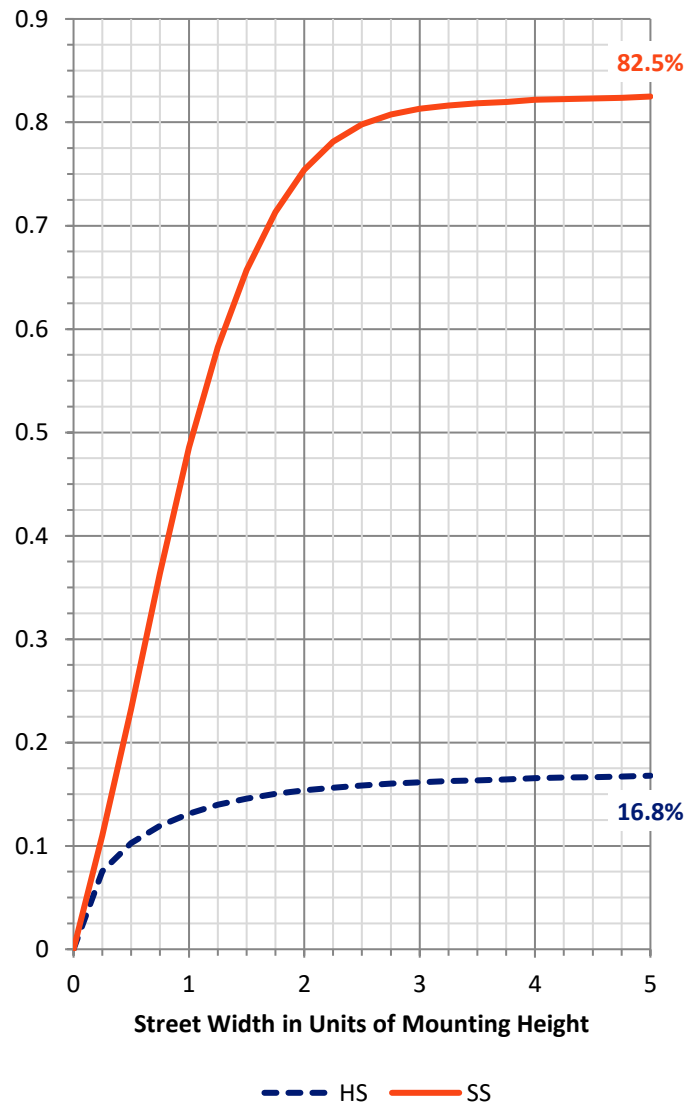
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8041.8	0.0	8041.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	39029.3	0.0	39029.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	47071.1	0.0	47071.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.3	1.3
10°-20°	1690.7	3.6
20°-30°	2885.4	6.1
30°-40°	4619.1	9.8
40°-50°	7136.0	15.2
50°-60°	10121.3	21.5
60°-70°	13539.6	28.8
70°-80°	5880.0	12.5
80°-90°	599.6	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°	47071.1	100.0
0°-180°	47071.1	100.0

Coefficient of Utilization



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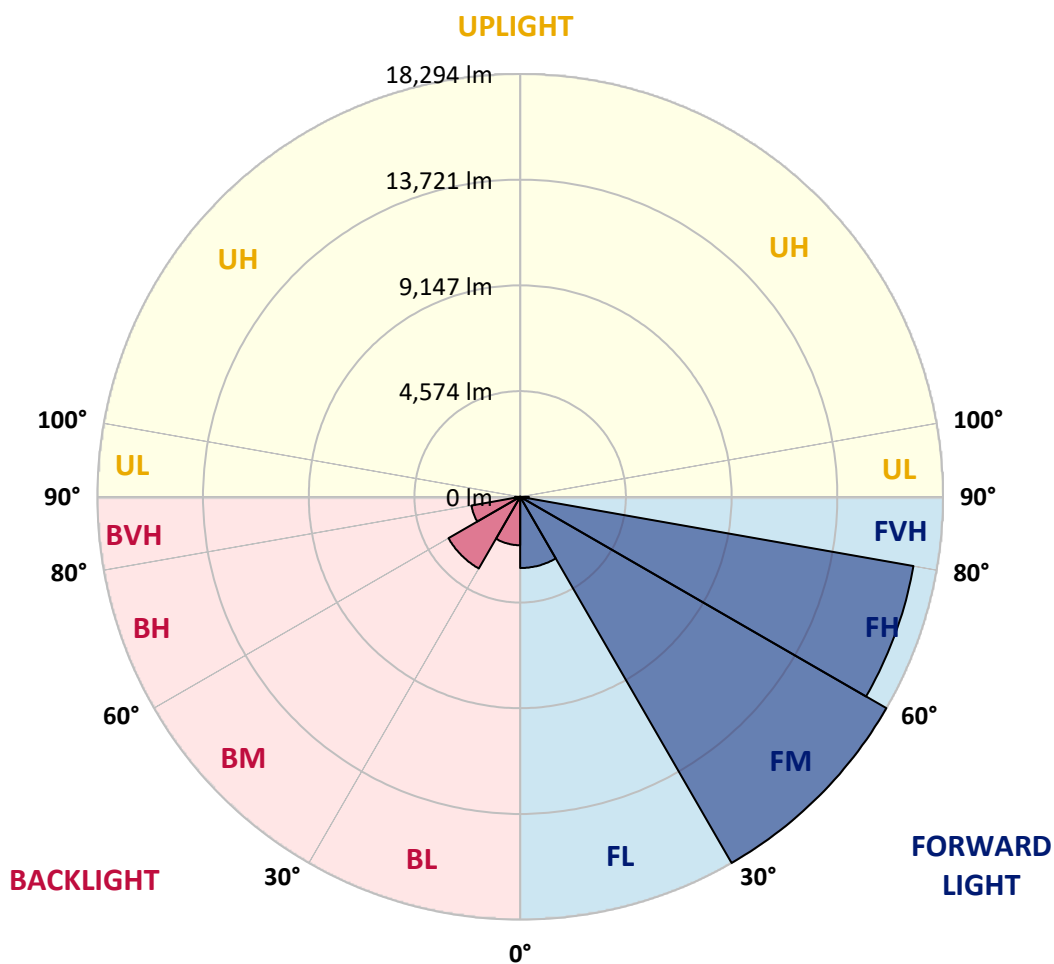
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3081.0	6.5			
FM	(30°-60°)	18294.3	38.9			
FH	(60°-80°)	17277.9	36.7			G5
FVH	(80°-90°)	376.0	0.8			G3/500
BL	(0°-30°)	2094.4	4.4	B3/2500		
BM	(30°-60°)	3582.2	7.6	B3/5000		
BH	(60°-80°)	2141.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	223.5	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°	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9
2.5°	5933.9	5973.9	6007.3	6038.4	6100.7	6202.9	6320.8	6416.5	6554.4	6581.1	6654.4
5°	5389.0	5389.0	5415.7	5462.4	5546.9	5700.4	5860.4	6073.9	6374.1	6445.4	6641.1
7.5°	5124.3	5126.6	5142.1	5182.1	5255.5	5395.7	5571.3	5822.7	6229.6	6347.5	6681.2
10°	5222.1	5199.8	5166.6	5146.5	5157.7	5240.0	5406.8	5687.0	6140.7	6291.9	6770.1
12.5°	5769.3	5727.1	5611.3	5457.9	5311.1	5251.1	5348.9	5622.5	6102.9	6278.6	6888.0
15°	6663.4	6645.5	6429.8	6111.8	5756.0	5457.9	5391.2	5598.0	6107.4	6294.2	7028.1
17.5°	7784.2	7759.8	7475.2	7012.6	6432.1	5851.6	5540.2	5618.0	6122.9	6320.8	7163.8
20°	8916.3	8840.7	8533.8	7982.3	7237.3	6387.7	5787.0	5669.3	6142.9	6349.8	7306.1
22.5°	9761.6	9699.3	9423.5	8887.4	8028.9	7008.1	6118.5	5758.2	6207.4	6434.3	7481.8
25°	10504.4	10508.8	10235.3	9717.1	8829.7	7666.4	6545.5	5996.1	6372.0	6607.8	7722.0
27.5°	11422.9	11369.5	11113.8	10600.0	9621.4	8331.4	7061.5	6323.1	6616.6	6854.6	8037.8
30°	12521.6	12483.9	12188.0	11605.3	10500.0	9045.3	7650.9	6703.4	6932.5	7179.3	8451.5
32.5°	13813.8	13796.0	13489.1	12739.6	11514.1	9886.1	8342.6	7206.0	7404.0	7659.7	9045.3
35°	15330.6	15332.9	14970.3	14069.6	12624.0	10864.6	9127.6	7853.2	7977.8	8244.7	9752.6
37.5°	16264.8	16378.2	16242.5	15323.9	13880.6	11959.0	10146.3	8711.8	8631.7	8900.8	10511.1
40°	16465.0	16602.8	17032.1	16565.1	15286.1	13164.4	11049.3	9536.9	9436.8	9765.9	11487.4
42.5°	16184.7	16376.0	17283.4	17612.6	16778.5	14650.0	12263.6	10762.4	10635.7	11078.3	12701.7
45°	16017.9	16160.2	17210.0	18157.5	18072.9	16329.3	13809.4	12301.4	12254.7	12835.2	14102.9
47.5°	15728.8	15857.8	16867.5	18284.2	18833.6	17868.4	15666.4	14183.1	14274.1	15034.8	15684.2
50°	15884.4	15937.8	16484.9	17961.7	19053.7	18996.0	17741.5	16362.6	16673.9	17623.6	17474.7
52.5°	15862.1	16000.2	16440.5	17432.5	19082.6	19692.2	19785.5	18793.5	19449.7	20539.4	19460.8
55°	12824.1	13077.7	15917.8	17298.9	19185.0	20374.8	21604.8	21355.7	22579.0	23848.9	21702.7
57.5°	12245.9	12406.0	13980.6	17579.2	19727.7	21678.2	23628.7	24175.8	26222.0	27696.5	24433.8
60°	12132.3	12330.4	13960.6	17921.7	20828.6	23802.2	26629.0	27589.8	30654.7	32269.2	27601.0
62.5°	11778.8	11992.3	13829.4	17877.2	22392.1	26740.2	30470.0	31219.5	34858.2	36428.3	30249.8
65°	10657.8	10857.9	12759.7	17158.8	23446.4	29876.2	35016.1	34546.8	38176.5	39357.5	31570.9
66°	9890.4	10086.3	11916.7	16313.7	23201.6	30765.8	36626.3	35576.6	38919.3	39844.5	31312.9
67.5°	8487.1	8640.6	10279.7	14421.0	21900.6	31014.9	37980.8	36350.5	38997.2	39324.1	29838.3
70°	5362.2	5406.8	6681.2	9955.0	16578.4	26898.1	35919.0	34428.9	35781.1	34896.0	25014.4
72.5°	2326.3	2310.9	3207.1	5064.2	9385.7	18048.4	29055.6	28408.3	28068.0	26048.5	17510.2
75°	1294.4	1312.2	1665.8	2350.8	3814.3	8865.2	19007.1	18188.6	15357.4	13104.3	7940.0
77.5°	1038.6	1063.1	1381.1	1668.1	1712.5	3091.5	8894.1	7237.3	4357.0	3496.3	2206.3
80°	820.6	865.3	1205.4	1298.9	1154.4	1274.4	2873.5	2297.5	1723.7	1581.3	1143.2
82.5°	649.4	680.5	1034.2	983.0	807.3	858.4	1376.6	1341.1	1120.9	1020.8	660.6
85°	467.1	524.9	849.6	740.7	529.4	578.3	914.1	876.3	642.8	524.9	291.4
87.5°	191.3	249.1	600.5	491.5	295.8	269.1	455.9	429.3	304.8	222.5	144.5
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°	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9	6707.9
2.5°	6701.2	6754.5	6823.5	6865.8	6888.0	6903.5	6928.0	6925.8	6932.5	6934.6	6943.7
5°	6745.6	6834.6	6934.6	6961.4	6961.4	6937.0	6912.5	6872.4	6856.9	6852.4	6856.9
7.5°	6861.3	6959.2	7045.9	7014.8	6948.1	6850.2	6723.4	6612.3	6552.2	6532.2	6527.7
10°	7008.1	7126.0	7161.6	7043.7	6848.0	6612.3	6360.8	6178.5	6073.9	6045.1	6036.1
12.5°	7186.0	7297.2	7248.3	6999.2	6636.7	6256.4	5909.4	5618.0	5400.1	5331.1	5326.7
15°	7381.8	7468.5	7297.2	6861.3	6320.8	5760.3	5142.1	4639.4	4368.0	4281.4	4274.7
17.5°	7564.1	7608.6	7268.4	6621.1	5856.1	4948.6	4128.0	3740.9	3647.5	3669.8	3674.2
20°	7719.8	7719.8	7170.4	6276.4	5124.3	3878.8	3360.6	3353.9	3420.7	3487.3	3500.6
22.5°	7891.0	7788.8	6999.2	5789.3	4087.8	3173.8	3098.1	3160.5	3236.0	3309.5	3320.6
25°	8102.3	7844.4	6761.2	5050.9	3213.9	2882.4	2911.3	2962.4	3000.3	3047.0	3053.7
27.5°	8338.1	7915.5	6447.6	4034.5	2789.1	2700.1	2722.3	2740.1	2735.7	2753.5	2757.9
30°	8620.5	7997.8	6018.4	3153.8	2613.3	2544.3	2504.3	2488.7	2488.7	2517.7	2528.8
32.5°	8998.7	8120.1	5402.4	2702.3	2528.8	2433.2	2304.2	2246.4	2268.5	2366.4	2388.6
35°	9414.6	8251.4	4568.2	2548.8	2511.0	2382.0	2181.8	2075.1	2077.3	2168.5	2197.4
37.5°	9868.3	8418.2	3654.1	2519.8	2550.9	2384.2	2117.3	1970.5	1910.5	1910.5	1921.7
40°	10448.8	8589.4	2958.0	2540.0	2635.6	2411.0	2084.0	1888.2	1719.2	1723.7	1732.6
42.5°	11205.0	8736.3	2584.4	2582.2	2737.8	2446.6	2081.7	1779.3	1632.5	1732.6	1823.7
45°	12045.7	8809.6	2419.8	2619.9	2820.1	2468.7	2046.2	1761.5	1643.6	1941.6	2115.2
47.5°	13013.1	8767.4	2328.7	2633.3	2840.2	2468.7	2006.1	1803.8	1721.5	2248.5	2450.9
50°	14074.0	8645.0	2239.7	2606.6	2833.5	2464.4	2043.9	1846.1	1750.4	2302.0	2442.1
52.5°	15321.8	8542.8	2146.3	2548.8	2786.7	2439.9	2088.4	1828.2	1659.2	2092.9	2190.7
55°	16745.2	8571.6	2041.7	2466.5	2713.4	2393.1	2072.8	1757.0	1563.5	1843.7	1903.9
57.5°	18564.5	8916.3	1917.2	2361.9	2613.3	2315.3	2017.3	1723.7	1534.6	1672.5	1708.0
60°	20595.1	9516.9	1761.5	2257.4	2488.7	2190.7	1975.0	1739.2	1547.9	1659.2	1676.9
62.5°	22085.2	9866.1	1628.1	2104.0	2319.7	2052.9	1921.7	1759.3	1583.6	1705.9	1701.3
65°	22490.0	9292.3	1461.3	1879.4	2090.6	1908.3	1854.9	1781.5	1599.1	1743.7	1723.7
66°	21922.9	8674.0	1387.8	1774.8	1975.0	1837.0	1821.6	1779.3	1592.5	1748.1	1714.9
67.5°	20546.1	7406.2	1261.1	1621.4	1790.4	1730.3	1768.2	1759.3	1574.7	1743.7	1697.1
70°	16756.3	5053.1	1078.7	1350.0	1490.2	1523.5	1665.8	1688.0	1516.8	1665.8	1563.5
72.5°	11707.5	3078.2	954.2	1047.6	1205.4	1298.9	1525.7	1590.3	1439.0	1454.6	1356.7
75°	5658.1	1634.7	865.3	811.8	936.4	1085.4	1356.7	1456.8	1316.7	1216.6	1181.0
77.5°	1763.7	998.6	734.0	653.9	734.0	876.3	1134.3	1276.5	1172.2	1018.7	1005.3
80°	947.5	734.0	564.9	524.9	580.5	687.2	891.9	1065.4	1007.5	914.1	816.2
82.5°	625.0	476.0	418.1	407.0	442.6	524.9	662.7	883.0	883.0	782.9	569.4
85°	322.6	291.4	287.0	287.0	309.1	349.2	451.5	680.5	725.1	413.6	342.5
87.5°	160.2	166.8	155.7	162.4	173.5	171.2	215.8	342.5	409.2	251.3	209.0
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)