

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: P194827

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194827
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-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 43959 lumens
Efficiency: N/A
Efficacy: 117.5 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

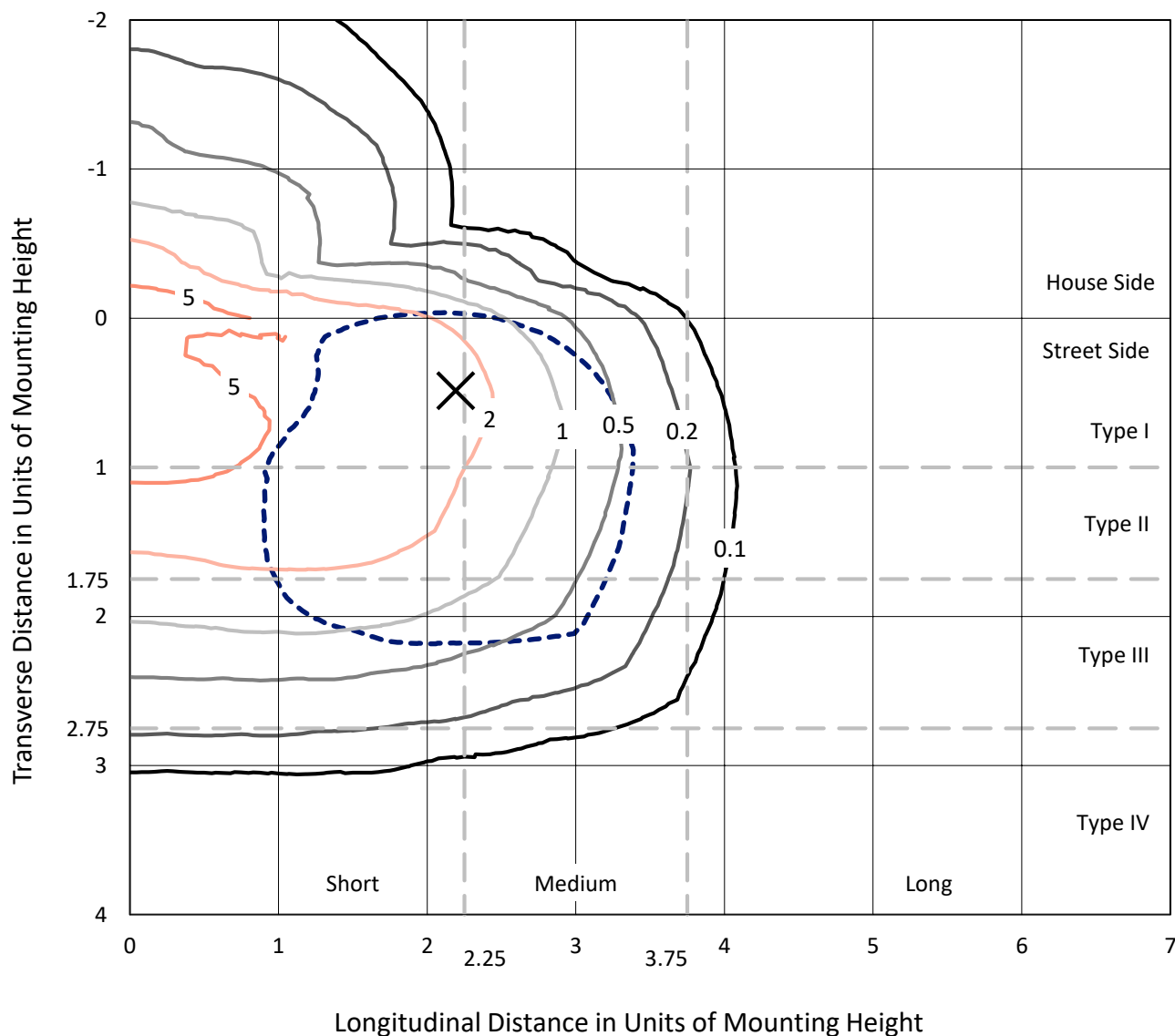


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

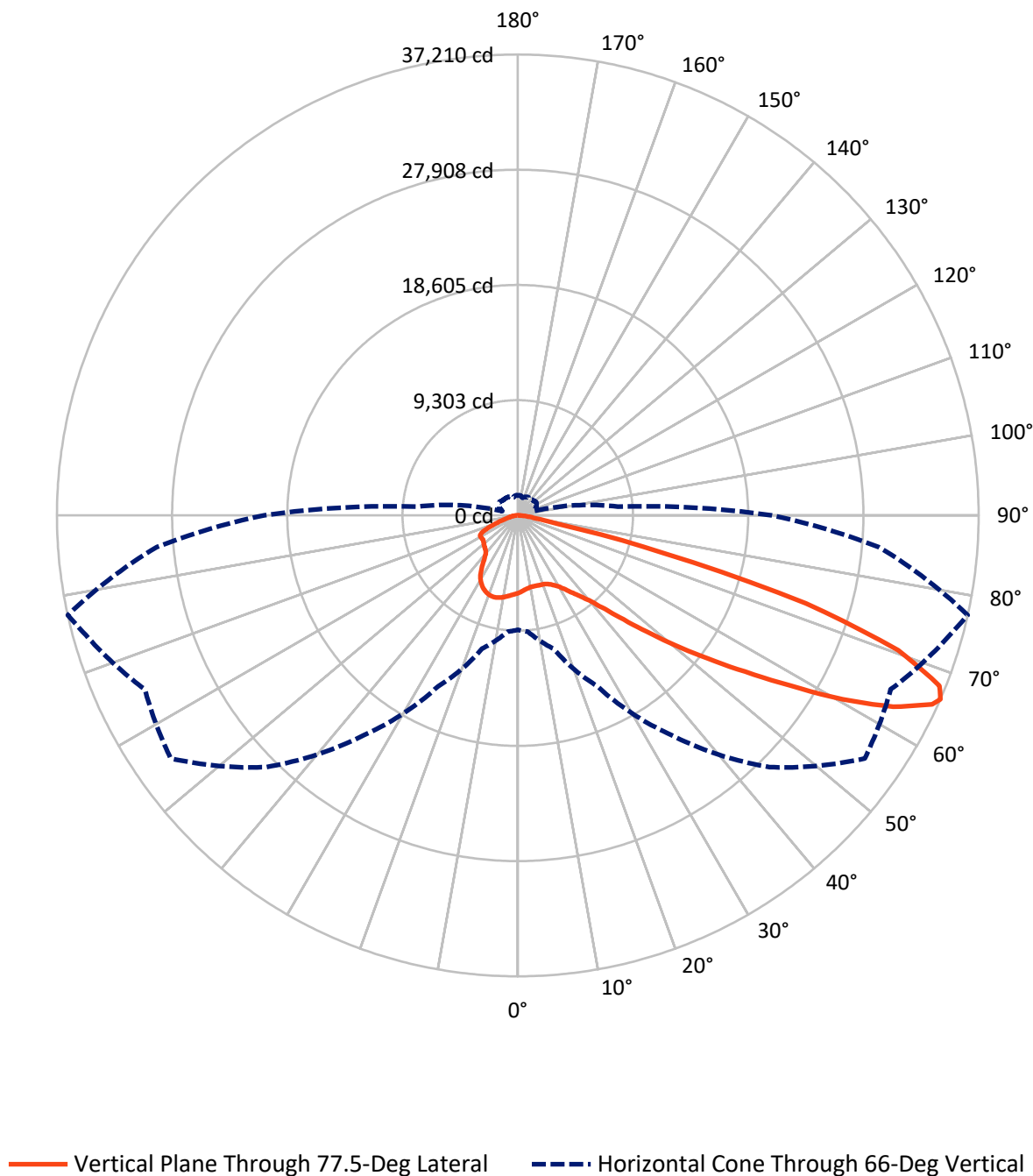


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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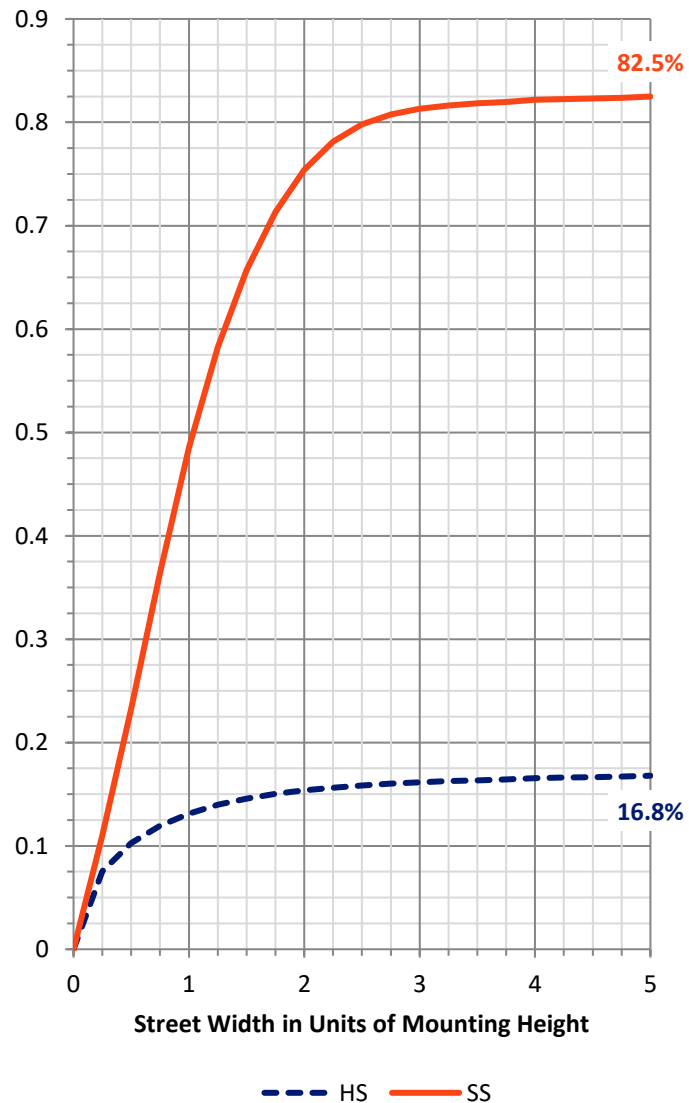
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7510.1	0.0	7510.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	36448.9	0.0	36448.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	43959.0	0.0	43959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.7	1.3
10°-20°	1578.9	3.6
20°-30°	2694.7	6.1
30°-40°	4313.7	9.8
40°-50°	6664.2	15.2
50°-60°	9452.2	21.5
60°-70°	12644.5	28.8
70°-80°	5491.2	12.5
80°-90°	559.9	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°	43959.0	100.0
0°-180°	43959.0	100.0

Coefficient of Utilization



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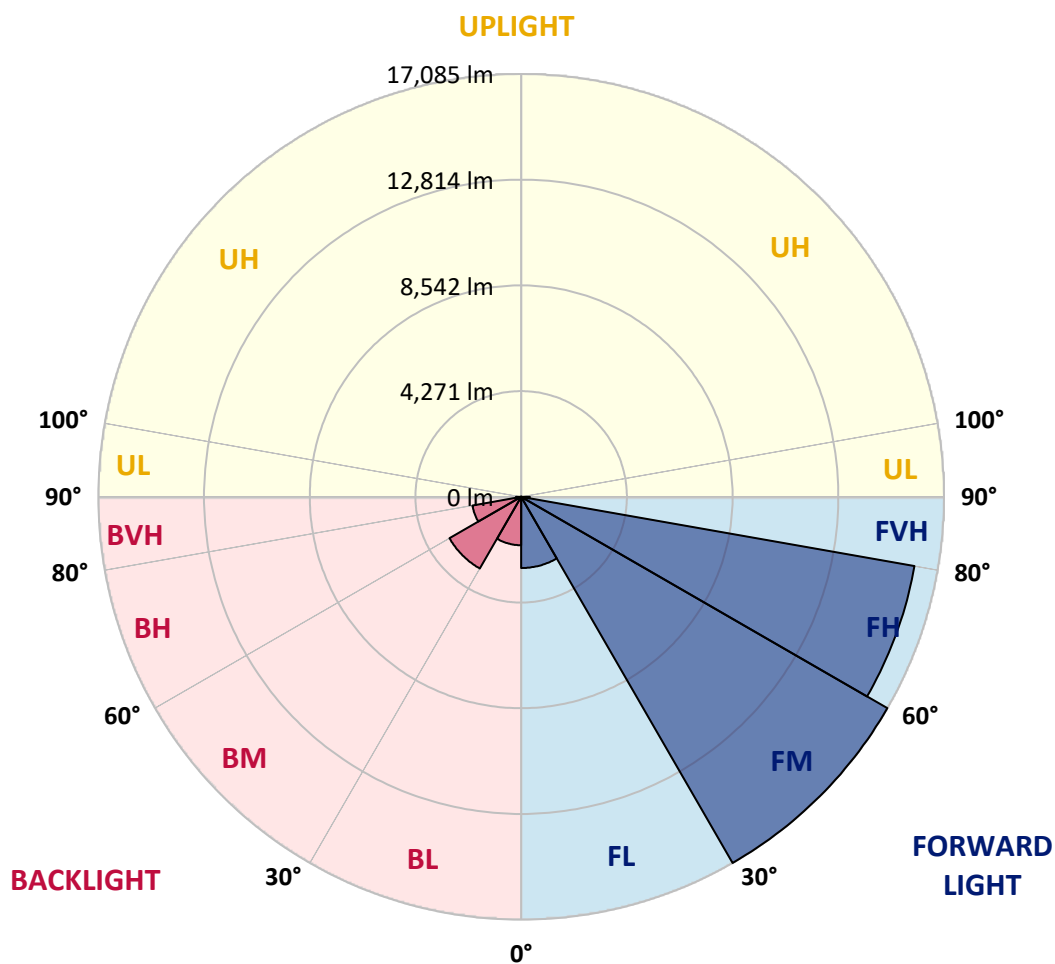
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2877.3	6.5			
FM	(30°-60°)	17084.8	38.9			
FH	(60°-80°)	16135.6	36.7			G5
FVH	(80°-90°)	351.2	0.8			G3/500
BL	(0°-30°)	1955.9	4.4	B3/2500		
BM	(30°-60°)	3345.3	7.6	B3/5000		
BH	(60°-80°)	2000.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	208.8	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°	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4
2.5°	5541.6	5578.9	5610.1	5639.2	5697.3	5792.9	5903.0	5992.3	6121.1	6146.0	6214.5
5°	5032.7	5032.7	5057.6	5101.2	5180.1	5323.5	5473.0	5672.4	5952.8	6019.3	6202.1
7.5°	4785.5	4787.6	4802.1	4839.5	4908.1	5038.9	5203.0	5437.7	5817.8	5927.9	6239.4
10°	4876.9	4856.1	4825.0	4806.3	4816.7	4893.5	5049.3	5311.0	5734.7	5876.0	6322.5
12.5°	5387.9	5348.4	5240.4	5097.1	4960.0	4903.9	4995.3	5250.8	5699.4	5863.5	6432.6
15°	6222.8	6206.2	6004.7	5707.7	5375.4	5097.1	5034.8	5227.9	5703.6	5878.0	6563.5
17.5°	7269.7	7246.8	6980.9	6548.9	6006.8	5464.7	5173.9	5246.6	5718.1	5903.0	6690.2
20°	8326.9	8256.3	7969.6	7454.5	6758.7	5965.3	5404.5	5294.4	5736.8	5930.0	6823.1
22.5°	9116.1	9058.0	8800.4	8299.9	7498.1	6544.8	5713.9	5377.5	5797.0	6008.9	6987.2
25°	9809.9	9814.0	9558.6	9074.6	8245.9	7159.6	6112.7	5599.7	5950.7	6170.9	7211.5
27.5°	10667.7	10617.9	10379.0	9899.2	8985.3	7780.6	6594.6	5905.0	6179.2	6401.5	7506.4
30°	11693.8	11658.5	11382.2	10838.0	9805.7	8447.3	7145.0	6260.2	6474.1	6704.7	7892.8
32.5°	12900.5	12883.9	12597.3	11897.3	10752.9	9232.5	7791.0	6729.6	6914.5	7153.3	8447.3
35°	14317.1	14319.1	13980.6	13139.4	11789.3	10146.4	8524.2	7334.0	7450.4	7699.6	9107.8
37.5°	15189.4	15295.4	15168.7	14310.8	12962.8	11168.3	9475.5	8135.8	8061.0	8312.3	9816.1
40°	15376.4	15505.1	15906.0	15469.8	14275.5	12294.0	10318.8	8906.4	8812.9	9120.3	10727.9
42.5°	15114.7	15293.3	16140.7	16448.1	15669.2	13681.5	11452.8	10050.8	9932.4	10345.8	11862.0
45°	14958.9	15091.8	16072.2	16957.0	16878.1	15249.7	12896.4	11488.1	11444.5	11986.6	13170.5
47.5°	14688.9	14809.3	15752.3	17075.4	17588.4	16687.0	14630.7	13245.3	13330.5	14040.8	14647.3
50°	14834.3	14884.1	15395.1	16774.2	17794.0	17740.0	16568.6	15280.8	15571.6	16458.5	16319.3
52.5°	14813.5	14942.3	15353.5	16279.9	17821.0	18390.2	18477.4	17551.0	18163.8	19181.5	18174.1
55°	11976.2	12213.0	14865.4	16155.3	17916.6	19027.8	20176.4	19943.8	21086.2	22272.1	20267.8
57.5°	11436.2	11585.8	13056.3	16417.0	18423.4	20245.0	22066.5	22577.5	24488.4	25865.4	22818.4
60°	11330.3	11515.1	13037.6	16736.8	19451.5	22228.5	24868.5	25765.7	28627.9	30135.8	25776.1
62.5°	11000.0	11199.4	12915.1	16695.3	20911.7	24972.3	28455.5	29155.5	32553.5	34019.9	28249.9
65°	9953.2	10140.1	11916.0	16024.4	21896.2	27900.9	32701.0	32262.7	35652.5	36755.4	29483.6
66°	9236.6	9419.4	11128.8	15235.1	21667.7	28731.8	34204.8	33224.4	36346.2	37210.3	29242.7
67.5°	7926.0	8069.3	9600.1	13467.6	20452.7	28964.4	35469.7	33947.2	36418.9	36724.2	27865.6
70°	5007.8	5049.3	6239.4	9296.9	15482.3	25119.8	33544.3	32152.7	33415.5	32588.8	23360.5
72.5°	2172.6	2158.0	2995.1	4729.4	8765.1	16855.2	27134.5	26530.1	26212.3	24326.3	16352.6
75°	1208.8	1225.5	1555.7	2195.4	3562.1	8279.1	17750.4	16986.1	14342.0	12237.9	7415.0
77.5°	970.0	992.8	1289.8	1557.8	1599.3	2887.1	8306.1	6758.7	4068.9	3265.1	2060.4
80°	766.4	808.0	1125.8	1213.0	1078.0	1190.1	2683.5	2145.6	1609.7	1476.8	1067.6
82.5°	606.5	635.6	965.8	918.1	754.0	801.7	1285.7	1252.5	1046.8	953.4	616.9
85°	436.2	490.2	793.4	691.7	494.3	540.0	853.7	818.4	600.3	490.2	272.1
87.5°	178.6	232.6	560.8	459.0	276.2	251.3	425.8	400.9	284.6	207.7	135.0
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°	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4	6264.4
2.5°	6258.1	6308.0	6372.4	6411.8	6432.6	6447.1	6470.0	6467.9	6474.1	6476.2	6484.5
5°	6299.7	6382.8	6476.2	6501.1	6501.1	6478.3	6455.5	6418.1	6403.5	6399.4	6403.5
7.5°	6407.7	6499.1	6580.1	6551.0	6488.7	6397.3	6278.9	6175.1	6119.0	6100.3	6096.1
10°	6544.8	6654.9	6688.1	6578.0	6395.2	6175.1	5940.3	5770.0	5672.4	5645.4	5637.1
12.5°	6710.9	6814.8	6769.1	6536.5	6197.9	5842.7	5518.7	5246.6	5043.1	4978.7	4974.5
15°	6893.7	6974.7	6814.8	6407.7	5903.0	5379.5	4802.1	4332.7	4079.3	3998.3	3992.1
17.5°	7064.0	7105.6	6787.8	6183.4	5468.9	4621.4	3855.0	3493.6	3406.4	3427.1	3431.3
20°	7209.4	7209.4	6696.4	5861.4	4785.5	3622.4	3138.4	3132.2	3194.5	3256.8	3269.3
22.5°	7369.4	7273.8	6536.5	5406.5	3817.6	2963.9	2893.3	2951.5	3022.1	3090.6	3101.0
25°	7566.7	7325.7	6314.2	4717.0	3001.3	2691.8	2718.9	2766.6	2801.9	2845.6	2851.8
27.5°	7786.8	7392.2	6021.4	3767.8	2604.6	2521.5	2542.3	2558.9	2554.8	2571.4	2575.5
30°	8050.6	7469.1	5620.5	2945.2	2440.5	2376.1	2338.8	2324.2	2324.2	2351.2	2361.6
32.5°	8403.7	7583.3	5045.1	2523.6	2361.6	2272.3	2151.8	2097.8	2118.6	2210.0	2230.7
35°	8792.1	7705.8	4266.2	2380.3	2345.0	2224.5	2037.6	1937.9	1940.0	2025.1	2052.1
37.5°	9215.8	7861.6	3412.6	2353.3	2382.4	2226.6	1977.3	1840.3	1784.2	1784.2	1794.6
40°	9758.0	8021.5	2762.5	2372.0	2461.3	2251.5	1946.2	1763.4	1605.6	1609.7	1618.0
42.5°	10464.2	8158.6	2413.5	2411.4	2556.8	2284.7	1944.1	1661.6	1524.6	1618.0	1703.2
45°	11249.3	8227.2	2259.8	2446.8	2633.7	2305.5	1910.9	1645.0	1534.9	1813.3	1975.3
47.5°	12152.8	8187.7	2174.7	2459.2	2652.4	2305.5	1873.5	1684.5	1607.6	2099.9	2288.9
50°	13143.5	8073.5	2091.6	2434.3	2646.2	2301.4	1908.8	1723.9	1634.6	2149.7	2280.6
52.5°	14308.8	7977.9	2004.3	2380.3	2602.5	2278.5	1950.3	1707.3	1549.5	1954.5	2045.9
55°	15638.1	8004.9	1906.7	2303.4	2534.0	2234.9	1935.8	1640.9	1460.2	1721.9	1778.0
57.5°	17337.1	8326.9	1790.4	2205.8	2440.5	2162.2	1883.9	1609.7	1433.2	1561.9	1595.2
60°	19233.4	8887.7	1645.0	2108.2	2324.2	2045.9	1844.4	1624.2	1445.6	1549.5	1566.1
62.5°	20625.1	9213.8	1520.4	1964.9	2166.4	1917.1	1794.6	1642.9	1478.9	1593.1	1588.9
65°	21003.1	8677.9	1364.6	1755.1	1952.4	1782.1	1732.3	1663.7	1493.4	1628.4	1609.7
66°	20473.4	8100.5	1296.1	1657.5	1844.4	1715.6	1701.1	1661.6	1487.2	1632.6	1601.4
67.5°	19187.7	6916.6	1177.7	1514.2	1672.0	1615.9	1651.3	1642.9	1470.5	1628.4	1584.8
70°	15648.5	4719.0	1007.4	1260.8	1391.6	1422.8	1555.7	1576.5	1416.5	1555.7	1460.2
72.5°	10933.6	2874.6	891.1	978.3	1125.8	1213.0	1424.9	1485.1	1343.8	1358.4	1267.0
75°	5284.0	1526.6	808.0	758.1	874.4	1013.6	1267.0	1360.5	1229.6	1136.1	1102.9
77.5°	1647.1	932.6	685.4	610.7	685.4	818.4	1059.3	1192.2	1094.6	951.3	938.8
80°	884.8	685.4	527.6	490.2	542.1	641.8	832.9	994.9	940.9	853.7	762.3
82.5°	583.6	444.5	390.5	380.1	413.3	490.2	619.0	824.6	824.6	731.1	531.7
85°	301.2	272.1	267.9	267.9	288.7	326.1	421.6	635.6	677.1	386.3	319.9
87.5°	149.5	155.8	145.4	151.6	162.0	159.9	201.5	319.9	382.2	234.7	195.2
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)