

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: P193235

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193235
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-07-LED-E1-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41634.3 lumens
Efficiency: N/A
Efficacy: 106.5 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): 391
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

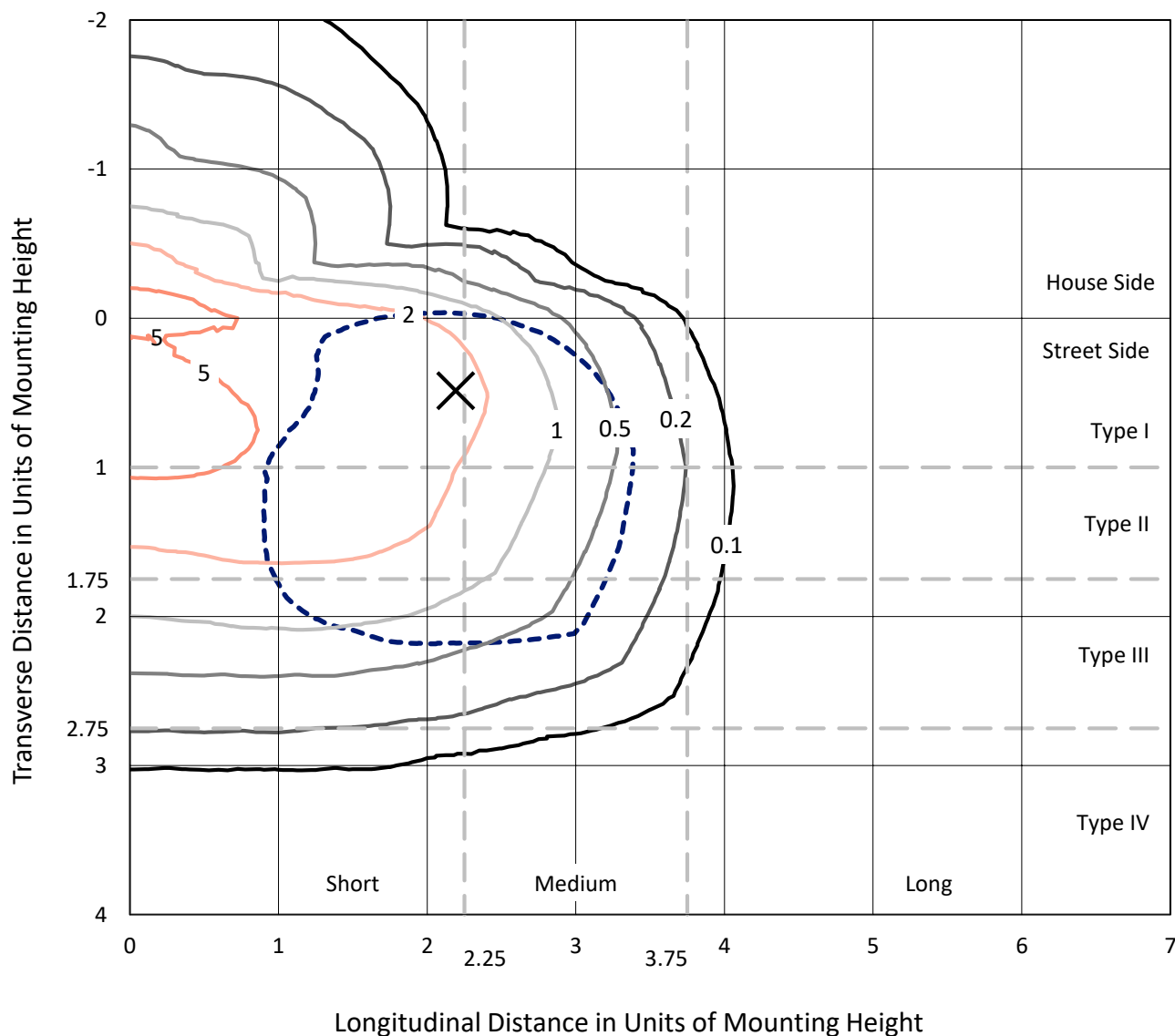


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

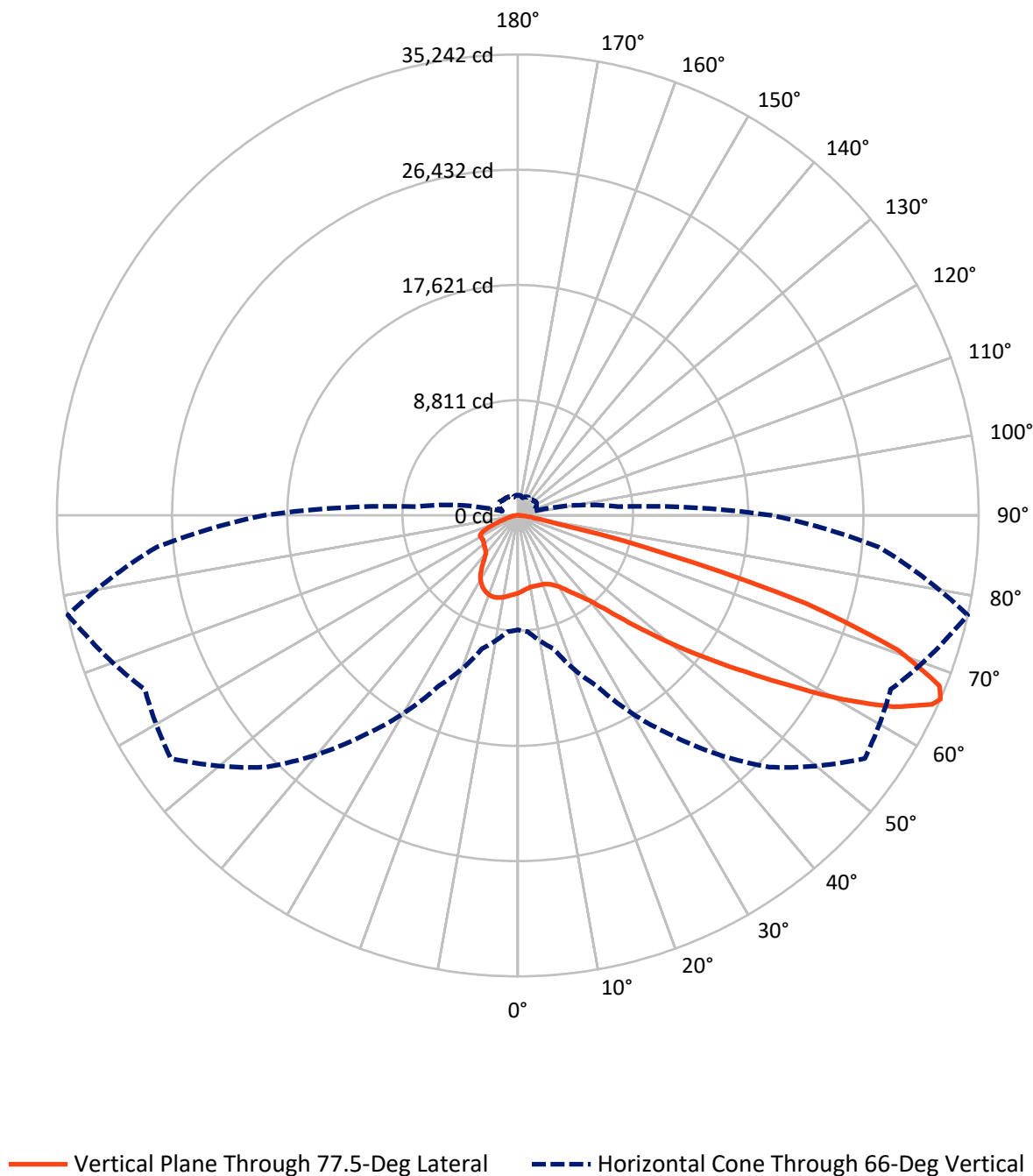


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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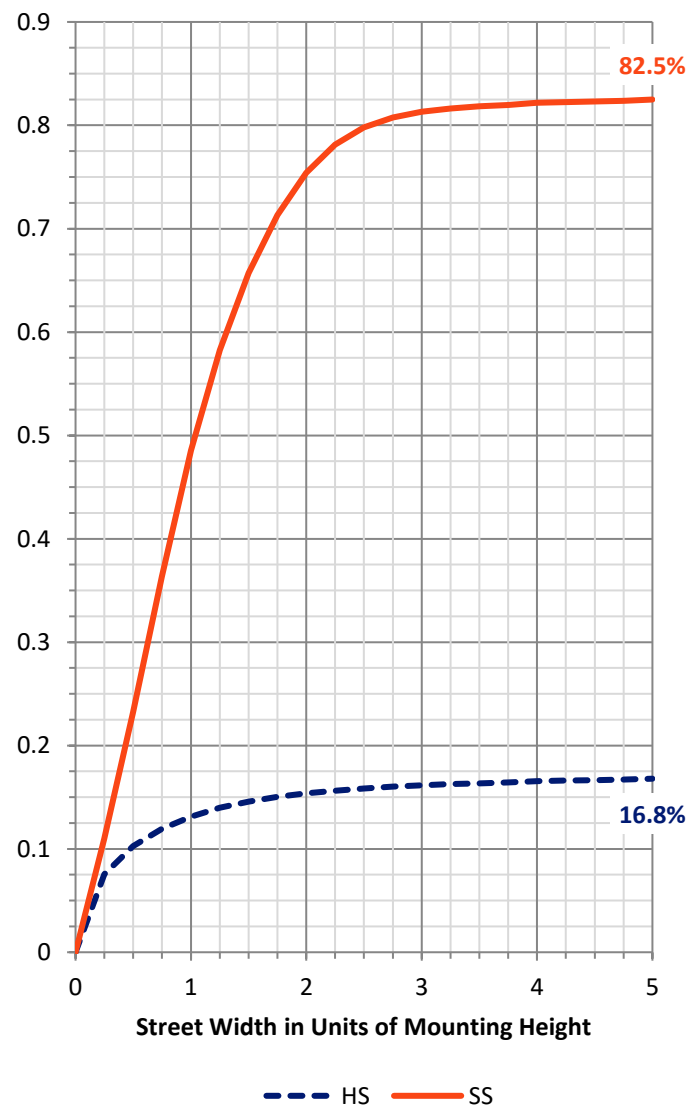
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7112.9	0.0	7112.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	34521.4	0.0	34521.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	41634.3	0.0	41634.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.1	1.3
10°-20°	1495.4	3.6
20°-30°	2552.2	6.1
30°-40°	4085.6	9.8
40°-50°	6311.8	15.2
50°-60°	8952.3	21.5
60°-70°	11975.8	28.8
70°-80°	5200.9	12.5
80°-90°	530.3	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°	41634.3	100.0
0°-180°	41634.3	100.0

Coefficient of Utilization



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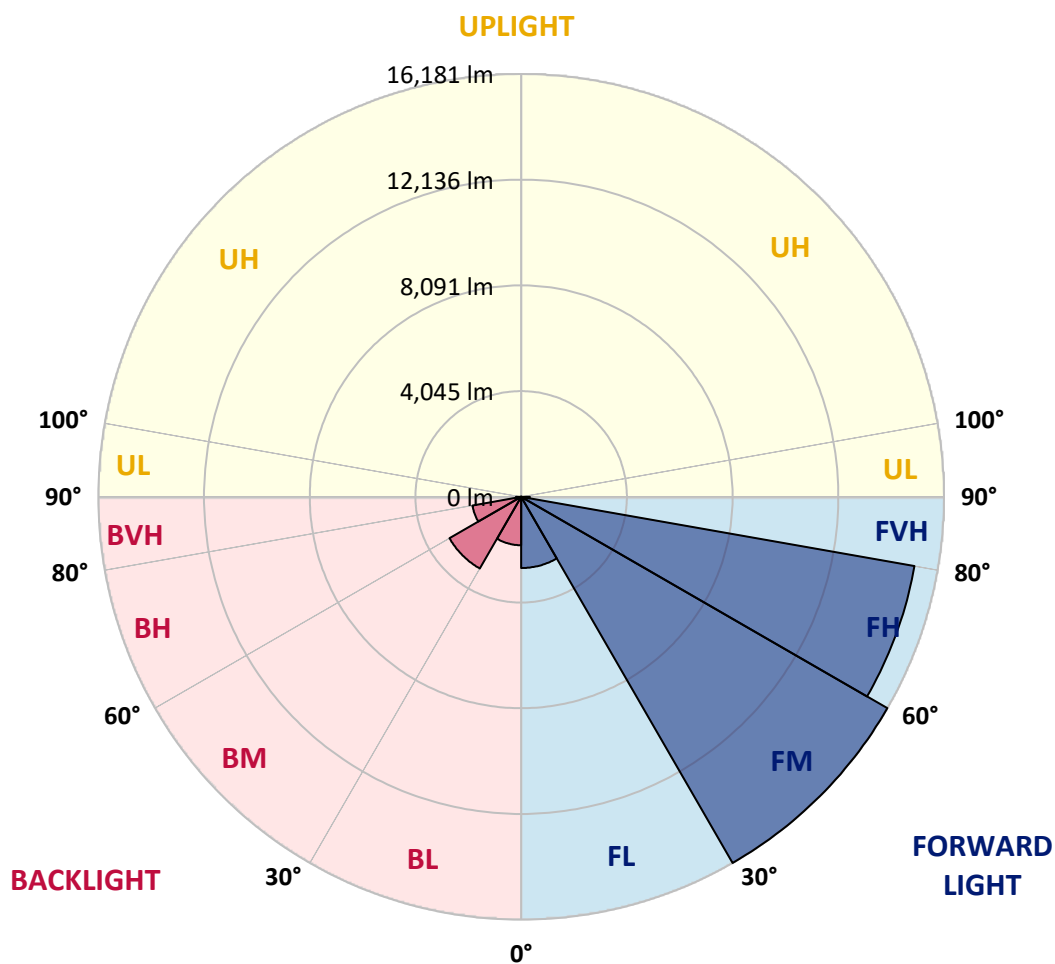
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2725.2	6.5			
FM	(30°-60°)	16181.3	38.9			
FH	(60°-80°)	15282.3	36.7			G5
FVH	(80°-90°)	332.6	0.8			G3/500
BL	(0°-30°)	1852.5	4.4	B3/2500		
BM	(30°-60°)	3168.4	7.6	B3/5000		
BH	(60°-80°)	1894.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	197.7	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°	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1
2.5°	5248.5	5283.9	5313.4	5340.9	5396.1	5486.6	5590.8	5675.4	5797.4	5821.0	5885.9
5°	4766.6	4766.6	4790.2	4831.5	4906.2	5042.0	5183.6	5372.4	5638.0	5700.9	5874.1
7.5°	4532.4	4534.4	4548.1	4583.5	4648.6	4772.5	4927.8	5150.2	5510.2	5614.4	5909.5
10°	4619.1	4599.4	4569.8	4552.1	4561.9	4634.8	4782.3	5030.2	5431.5	5565.2	5988.2
12.5°	5103.0	5065.6	4963.2	4827.5	4697.7	4644.6	4731.2	4973.1	5398.1	5553.4	6092.4
15°	5893.8	5878.0	5687.2	5405.9	5091.2	4827.5	4768.5	4951.4	5402.0	5567.2	6216.5
17.5°	6885.2	6863.5	6611.9	6202.6	5689.1	5175.7	4900.3	4969.1	5415.8	5590.8	6336.4
20°	7886.6	7819.6	7548.1	7060.4	6401.3	5649.8	5118.7	5014.5	5433.5	5616.4	6462.2
22.5°	8634.1	8578.9	8335.1	7860.9	7101.7	6198.8	5411.8	5093.1	5490.5	5691.1	6617.8
25°	9291.1	9295.0	9053.1	8594.8	7809.9	6780.9	5789.5	5303.6	5636.0	5844.6	6830.2
27.5°	10103.5	10056.3	9830.2	9375.6	8510.1	7369.1	6246.0	5592.8	5852.5	6062.9	7109.5
30°	11075.4	11042.0	10780.3	10264.9	9287.1	8000.6	6767.2	5929.2	6131.7	6350.1	7475.4
32.5°	12218.4	12202.6	11931.1	11268.1	10184.3	8744.2	7379.0	6373.7	6548.8	6775.0	8000.6
35°	13559.9	13562.0	13241.2	12444.5	11165.9	9609.8	8073.3	6946.1	7056.4	7292.4	8626.2
37.5°	14386.1	14486.4	14366.5	13554.0	12277.4	10577.6	8974.3	7705.5	7634.7	7872.7	9297.0
40°	14563.1	14685.2	15064.8	14651.7	13520.7	11643.9	9773.0	8435.4	8346.9	8638.0	10160.6
42.5°	14315.3	14484.5	15287.1	15578.3	14840.5	12957.9	10847.1	9519.3	9407.2	9798.7	11234.7
45°	14167.7	14293.8	15222.2	16060.2	15985.5	14443.2	12214.4	10880.6	10839.3	11352.7	12474.0
47.5°	13912.1	14026.1	14919.3	16172.4	16658.3	15804.6	13857.1	12544.8	12625.6	13298.3	13872.7
50°	14049.7	14096.9	14580.9	15887.2	16853.0	16801.9	15692.4	14472.7	14748.2	15588.1	15456.4
52.5°	14030.1	14152.1	14541.6	15419.0	16878.6	17417.7	17500.3	16622.9	17203.2	18167.2	17213.0
55°	11342.9	11567.2	14079.2	15300.8	16969.2	18021.5	19109.5	18889.1	19971.1	21094.3	19196.0
57.5°	10831.4	10973.0	12365.9	15548.8	17449.1	19174.4	20899.5	21383.5	23193.3	24497.6	21611.7
60°	10731.1	10906.1	12348.2	15851.8	18422.9	21053.0	23553.3	24403.2	27114.0	28542.2	24413.0
62.5°	10418.3	10607.2	12232.1	15812.4	19805.9	23651.7	26950.8	27613.6	30832.0	32220.9	26756.0
65°	9426.9	9603.9	11285.8	15176.9	20738.3	26425.5	30971.7	30556.6	33767.1	34811.6	27924.5
66°	8748.2	8921.2	10540.2	14429.5	20521.8	27212.3	32395.9	31467.4	34424.1	35242.4	27696.2
67.5°	7506.8	7642.5	9092.4	12755.4	19371.1	27432.7	33594.0	32152.0	34492.9	34782.1	26392.0
70°	4743.0	4782.3	5909.5	8805.2	14663.5	23791.4	31770.4	30452.3	31648.4	30865.4	22125.1
72.5°	2057.7	2043.9	2836.7	4479.3	8301.6	15963.9	25699.5	25127.1	24826.1	23039.9	15487.8
75°	1144.9	1160.7	1473.5	2079.3	3373.7	7841.3	16811.7	16087.8	13583.5	11590.8	7022.9
77.5°	918.7	940.2	1221.6	1475.4	1514.8	2734.4	7866.8	6401.3	3853.8	3092.5	1951.5
80°	725.9	765.3	1066.3	1148.9	1021.0	1127.2	2541.6	2032.1	1524.6	1398.7	1011.2
82.5°	574.3	602.0	914.7	869.4	714.1	759.4	1217.7	1186.2	991.4	902.9	584.2
85°	413.1	464.3	751.4	655.1	468.1	511.5	808.5	775.0	568.4	464.3	257.8
87.5°	169.2	220.3	531.1	434.8	261.6	238.0	403.2	379.6	269.6	196.6	127.9
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°	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1	5933.1
2.5°	5927.2	5974.4	6035.4	6072.7	6092.4	6106.2	6127.8	6125.8	6131.7	6133.7	6141.6
5°	5966.5	6045.2	6133.7	6157.3	6157.3	6135.7	6114.0	6078.6	6064.9	6060.9	6064.9
7.5°	6068.8	6155.3	6232.1	6204.7	6145.5	6059.0	5946.9	5848.5	5795.4	5777.6	5773.7
10°	6198.8	6302.9	6334.5	6230.2	6057.0	5848.5	5626.2	5464.9	5372.4	5346.8	5339.0
12.5°	6356.0	6454.4	6411.2	6190.8	5870.2	5533.8	5226.9	4969.1	4776.4	4715.4	4711.5
15°	6529.2	6606.0	6454.4	6068.8	5590.8	5095.1	4548.1	4103.6	3863.6	3786.8	3780.9
17.5°	6690.5	6729.9	6428.9	5856.4	5179.7	4377.0	3651.1	3308.8	3226.2	3245.9	3249.8
20°	6828.1	6828.1	6342.3	5551.5	4532.4	3430.8	2972.4	2966.5	3025.6	3084.6	3096.4
22.5°	6979.6	6889.2	6190.8	5120.7	3615.7	2807.2	2740.3	2795.4	2862.3	2927.2	2937.0
25°	7166.6	6938.3	5980.3	4467.5	2842.6	2549.4	2575.0	2620.4	2653.8	2695.1	2701.0
27.5°	7375.0	7001.4	5702.9	3568.5	2466.8	2388.2	2407.8	2423.6	2419.6	2435.4	2439.3
30°	7624.8	7074.1	5323.2	2789.5	2311.5	2250.5	2215.1	2201.3	2201.3	2226.9	2236.7
32.5°	7959.3	7182.2	4778.4	2390.1	2236.7	2152.1	2038.0	1986.9	2006.5	2093.1	2112.7
35°	8327.2	7298.3	4040.6	2254.4	2221.0	2106.8	1929.8	1835.4	1837.4	1918.0	1943.6
37.5°	8728.5	7445.9	3232.1	2228.9	2256.4	2108.8	1872.8	1742.9	1689.8	1689.8	1699.6
40°	9241.9	7597.4	2616.4	2246.6	2331.1	2132.4	1843.3	1670.1	1520.7	1524.6	1532.5
42.5°	9910.8	7727.2	2285.9	2283.9	2421.6	2163.9	1841.3	1573.8	1444.0	1532.5	1613.1
45°	10654.4	7792.2	2140.3	2317.4	2494.4	2183.5	1809.9	1558.0	1453.8	1717.3	1870.8
47.5°	11510.1	7754.6	2059.6	2329.2	2512.1	2183.5	1774.4	1595.4	1522.6	1988.8	2167.8
50°	12448.5	7646.5	1981.0	2305.6	2506.2	2179.6	1807.9	1632.8	1548.2	2036.0	2159.9
52.5°	13552.1	7556.1	1898.4	2254.4	2464.9	2158.0	1847.2	1617.0	1467.6	1851.2	1937.7
55°	14811.0	7581.6	1805.9	2181.6	2400.0	2116.7	1833.5	1554.1	1382.9	1630.8	1683.9
57.5°	16420.2	7886.6	1695.7	2089.1	2311.5	2047.8	1784.2	1524.6	1357.3	1479.4	1510.8
60°	18216.4	8417.7	1558.0	1996.7	2201.3	1937.7	1746.8	1538.4	1369.1	1467.6	1483.3
62.5°	19534.4	8726.5	1440.0	1861.0	2051.8	1815.8	1699.6	1556.1	1400.7	1508.9	1504.9
65°	19892.4	8219.0	1292.4	1662.3	1849.2	1687.8	1640.6	1575.7	1414.5	1542.3	1524.6
66°	19390.8	7672.0	1227.5	1569.8	1746.8	1624.9	1611.1	1573.8	1408.6	1546.2	1516.7
67.5°	18173.1	6550.7	1115.4	1434.1	1583.6	1530.5	1563.9	1556.1	1392.7	1542.3	1501.0
70°	14820.9	4469.5	954.1	1194.1	1318.0	1347.5	1473.5	1493.1	1341.6	1473.5	1382.9
72.5°	10355.4	2722.6	843.9	926.5	1066.3	1148.9	1349.5	1406.6	1272.8	1286.5	1200.0
75°	5004.6	1445.9	765.3	718.1	828.1	960.0	1200.0	1288.5	1164.6	1076.1	1044.6
77.5°	1560.0	883.3	649.2	578.3	649.2	775.0	1003.3	1129.2	1036.8	901.0	889.2
80°	838.0	649.2	499.7	464.3	513.4	607.9	788.9	942.3	891.1	808.5	721.9
82.5°	552.8	420.9	369.9	360.0	391.4	464.3	586.1	780.9	780.9	692.4	503.5
85°	285.2	257.8	253.8	253.8	273.4	308.8	399.4	602.0	641.4	365.9	302.9
87.5°	141.6	147.5	137.6	143.5	153.4	151.5	190.7	302.9	361.9	222.4	184.8
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)