

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: P194812

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194812
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-04-LED-E1-T3R-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16175 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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



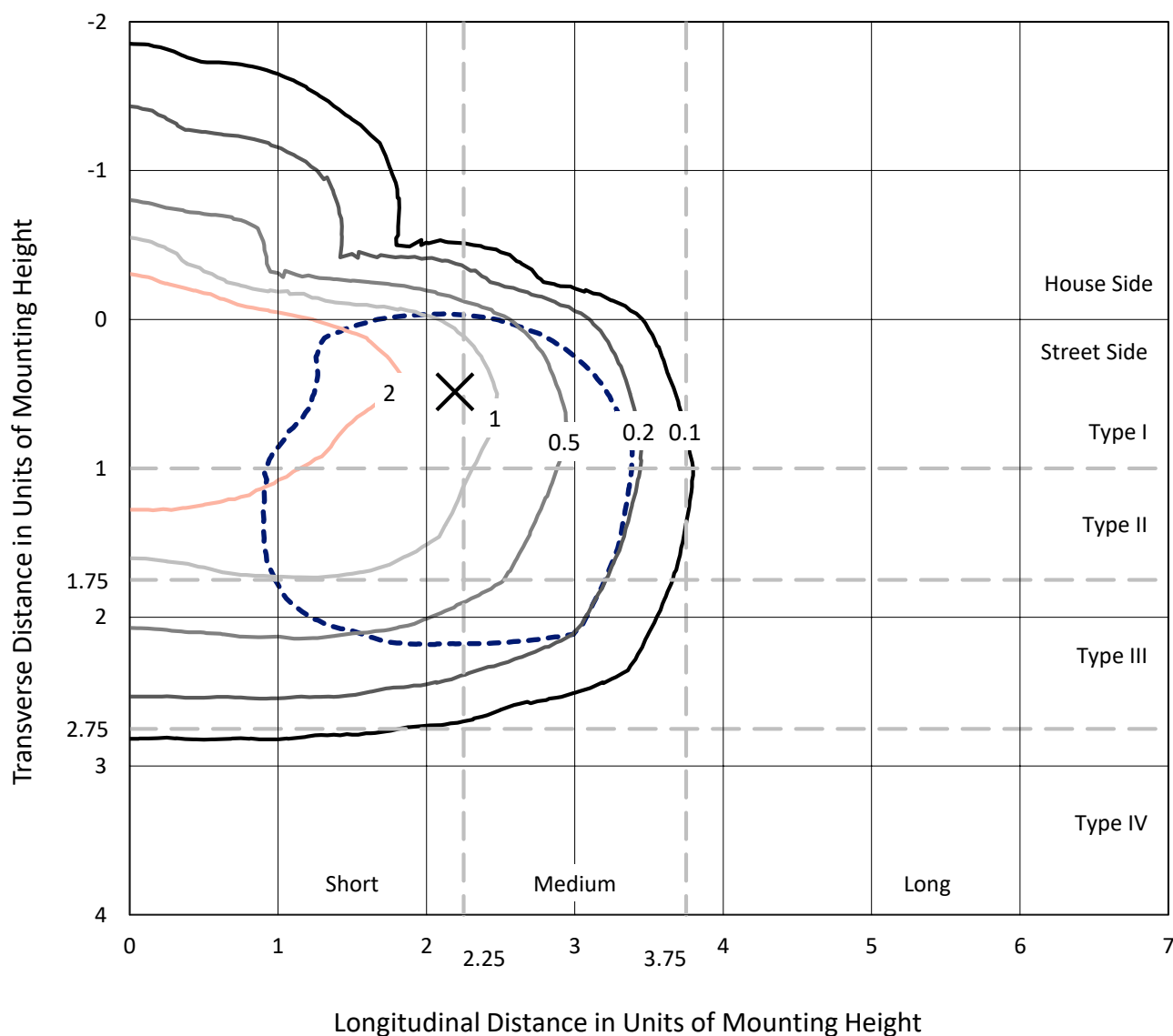
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

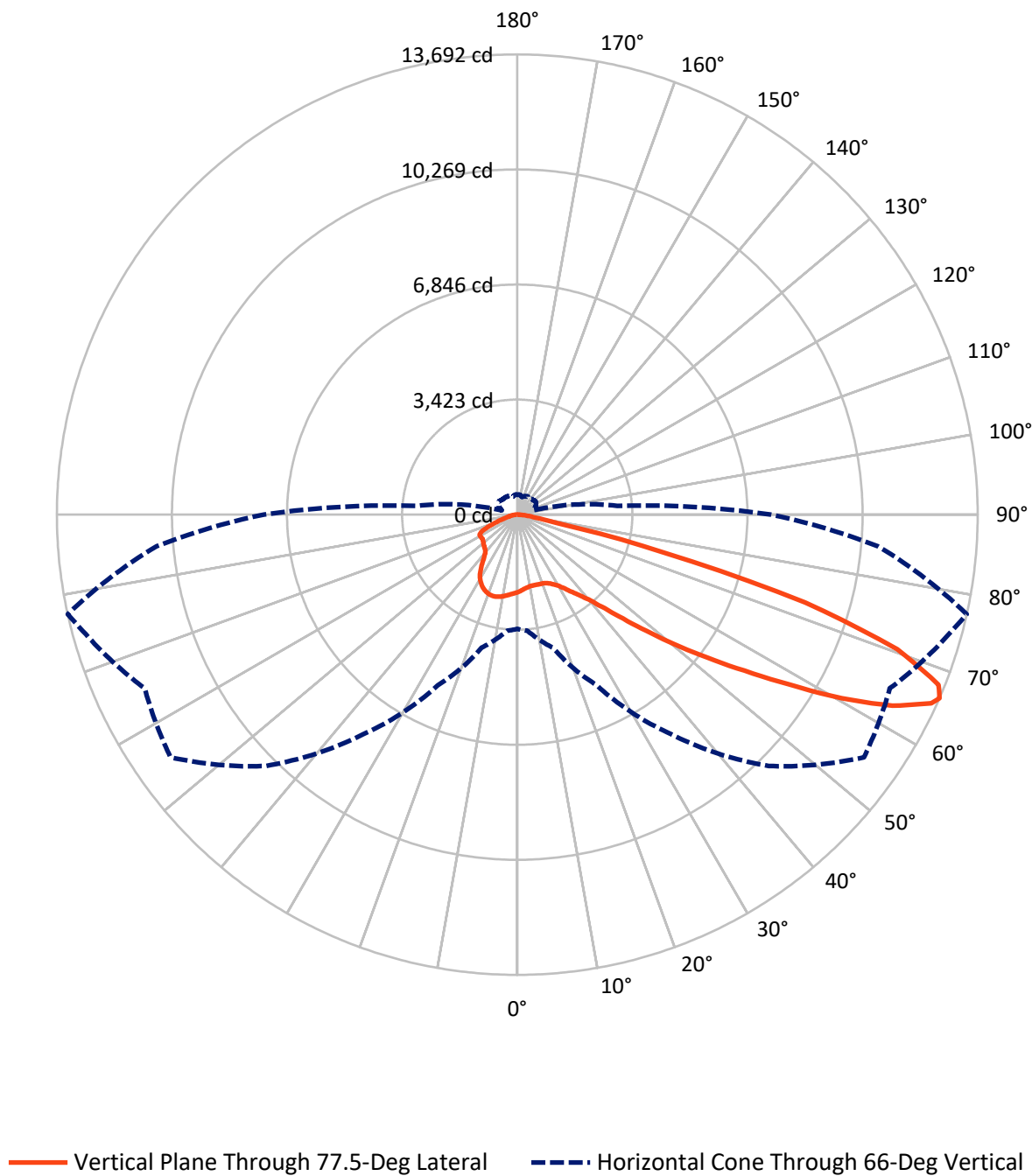


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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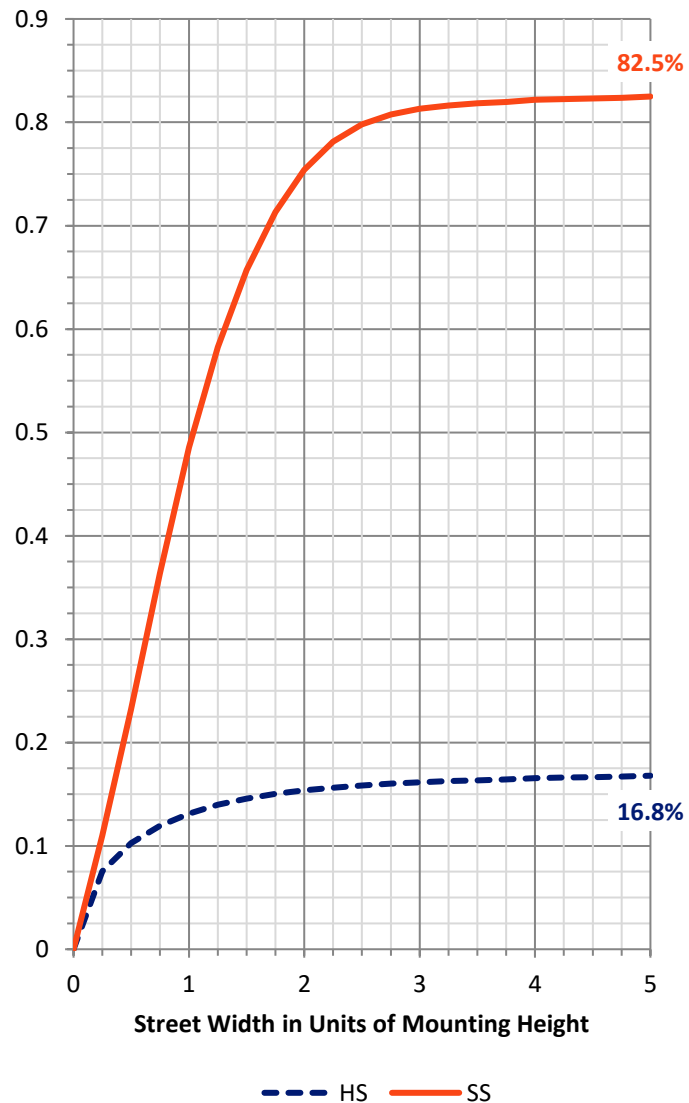
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2763.4	0.0	2763.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	13411.6	0.0	13411.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	16175.0	0.0	16175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	1.3
10°-20°	581.0	3.6
20°-30°	991.5	6.1
30°-40°	1587.2	9.8
40°-50°	2452.2	15.2
50°-60°	3478.0	21.5
60°-70°	4652.6	28.8
70°-80°	2020.5	12.5
80°-90°	206.0	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°	16175.0	100.0
0°-180°	16175.0	100.0

Coefficient of Utilization



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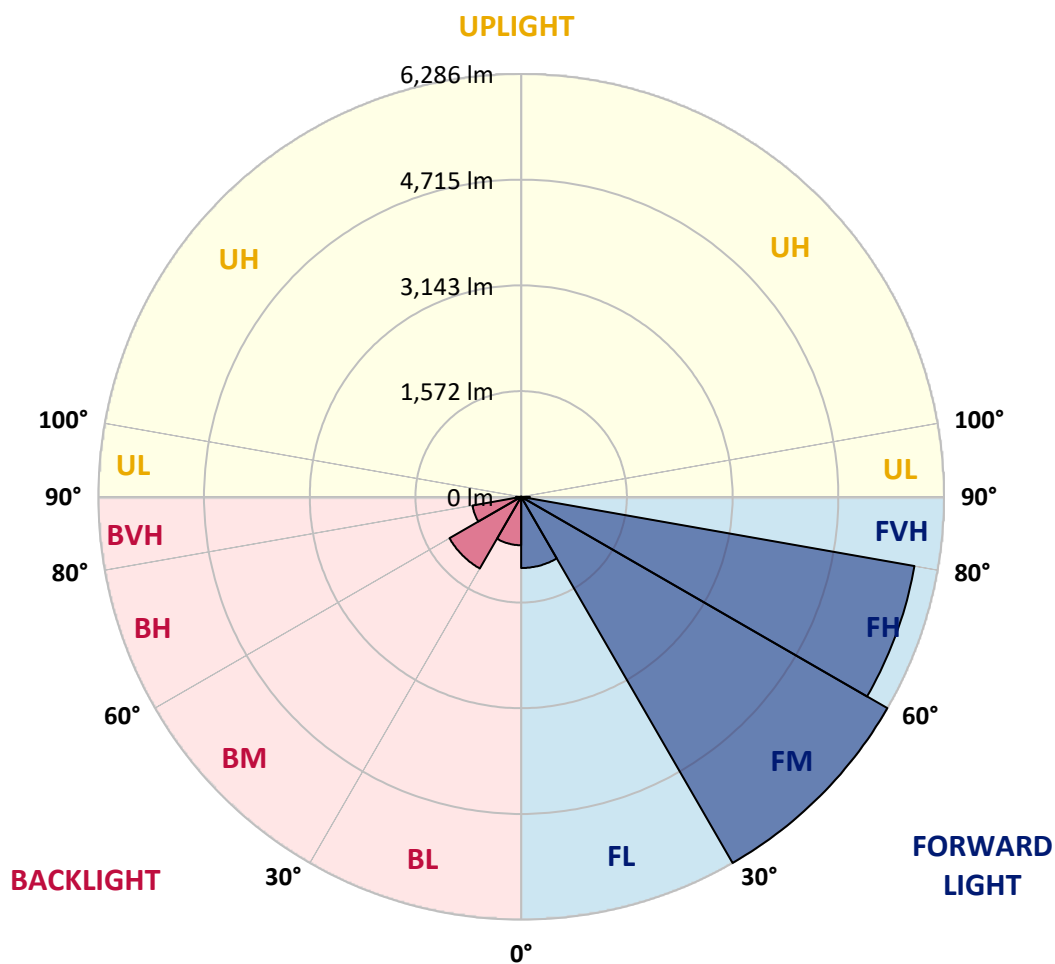
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1058.7	6.5			
FM	(30°-60°)	6286.5	38.9			
FH	(60°-80°)	5937.2	36.7			G3/7500
FVH	(80°-90°)	129.2	0.8			G2/225
BL	(0°-30°)	719.7	4.4	B2/1000		
BM	(30°-60°)	1230.9	7.6	B2/2500		
BH	(60°-80°)	735.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	76.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0
2.5°	2039.1	2052.8	2064.3	2075.0	2096.4	2131.5	2172.0	2204.9	2252.3	2261.5	2286.7
5°	1851.8	1851.8	1861.0	1877.0	1906.1	1958.8	2013.8	2087.2	2190.4	2214.8	2282.1
7.5°	1760.9	1761.6	1767.0	1780.7	1806.0	1854.1	1914.5	2000.8	2140.7	2181.2	2295.8
10°	1794.5	1786.8	1775.4	1768.5	1772.3	1800.6	1857.9	1954.2	2110.1	2162.1	2326.4
12.5°	1982.5	1968.0	1928.2	1875.5	1825.1	1804.4	1838.1	1932.1	2097.1	2157.5	2366.9
15°	2289.7	2283.6	2209.5	2100.2	1977.9	1875.5	1852.6	1923.6	2098.7	2162.9	2415.1
17.5°	2674.9	2666.5	2568.7	2409.7	2210.2	2010.8	1903.8	1930.5	2104.0	2172.0	2461.7
20°	3063.9	3037.9	2932.5	2742.9	2486.9	2195.0	1988.6	1948.1	2110.9	2182.0	2510.6
22.5°	3354.3	3332.9	3238.2	3054.0	2759.0	2408.2	2102.5	1978.7	2133.1	2211.0	2571.0
25°	3609.6	3611.1	3517.1	3339.1	3034.1	2634.4	2249.2	2060.5	2189.6	2270.6	2653.5
27.5°	3925.2	3906.9	3819.0	3642.5	3306.2	2862.9	2426.5	2172.8	2273.7	2355.5	2762.0
30°	4302.8	4289.8	4188.2	3987.9	3608.1	3108.3	2629.1	2303.5	2382.2	2467.0	2904.2
32.5°	4746.8	4740.7	4635.2	4377.7	3956.6	3397.1	2866.7	2476.2	2544.2	2632.1	3108.3
35°	5268.1	5268.8	5144.2	4834.7	4338.0	3733.4	3136.5	2698.6	2741.4	2833.1	3351.3
37.5°	5589.0	5628.0	5581.4	5265.8	4769.8	4109.4	3486.6	2993.6	2966.1	3058.6	3611.9
40°	5657.8	5705.2	5852.7	5692.2	5252.8	4523.7	3796.9	3277.2	3242.8	3355.9	3947.4
42.5°	5561.5	5627.3	5939.1	6052.2	5765.6	5034.2	4214.1	3698.3	3654.7	3806.8	4364.7
45°	5504.2	5553.1	5913.9	6239.4	6210.4	5611.2	4745.3	4227.1	4211.1	4410.6	4846.2
47.5°	5404.9	5449.2	5796.2	6283.0	6471.8	6140.1	5383.5	4873.7	4905.0	5166.4	5389.6
50°	5458.4	5476.7	5664.7	6172.2	6547.4	6527.6	6096.5	5622.7	5729.7	6056.0	6004.8
52.5°	5450.7	5498.1	5649.4	5990.3	6557.4	6766.8	6798.9	6458.0	6683.5	7058.0	6687.3
55°	4406.7	4493.9	5469.8	5944.4	6592.5	7001.4	7424.0	7338.4	7758.8	8195.2	7457.7
57.5°	4208.0	4263.1	4804.2	6040.7	6779.0	7449.3	8119.5	8307.5	9010.6	9517.4	8396.2
60°	4169.0	4237.1	4797.3	6158.4	7157.3	8179.1	9150.5	9480.7	10533.8	11088.7	9484.5
62.5°	4047.5	4120.9	4752.2	6143.1	7694.6	9188.7	10470.4	10727.9	11978.3	12517.8	10394.7
65°	3662.3	3731.1	4384.6	5896.3	8056.9	10266.3	12032.5	11871.3	13118.6	13524.4	10848.7
66°	3398.7	3465.9	4094.9	5605.9	7972.8	10572.0	12585.9	12225.1	13373.8	13691.8	10760.0
67.5°	2916.4	2969.2	3532.4	4955.5	7525.7	10657.6	13051.3	12491.1	13400.6	13512.9	10253.3
70°	1842.6	1857.9	2295.8	3420.8	5696.8	9243.0	12342.8	11830.8	12295.4	11991.3	8595.7
72.5°	799.4	794.1	1102.1	1740.2	3225.2	6202.0	9984.3	9761.9	9645.0	8951.0	6017.0
75°	444.8	450.9	572.4	807.8	1310.7	3046.3	6531.4	6250.1	5277.2	4503.0	2728.4
77.5°	356.9	365.3	474.6	573.2	588.5	1062.3	3056.3	2486.9	1497.2	1201.4	758.1
80°	282.0	297.3	414.2	446.3	396.7	437.9	987.4	789.5	592.3	543.4	392.8
82.5°	223.2	233.9	355.4	337.8	277.4	295.0	473.1	460.9	385.2	350.8	227.0
85°	160.5	180.4	291.9	254.5	181.9	198.7	314.1	301.1	220.9	180.4	100.1
87.5°	65.7	85.6	206.4	168.9	101.6	92.5	156.7	147.5	104.7	76.4	49.7
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°	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0	2305.0
2.5°	2302.7	2321.1	2344.8	2359.3	2366.9	2372.3	2380.7	2379.9	2382.2	2383.0	2386.0
5°	2318.0	2348.6	2383.0	2392.1	2392.1	2383.7	2375.3	2361.6	2356.2	2354.7	2356.2
7.5°	2357.7	2391.4	2421.2	2410.5	2387.6	2353.9	2310.4	2272.2	2251.5	2244.6	2243.1
10°	2408.2	2448.7	2460.9	2420.4	2353.2	2272.2	2185.8	2123.1	2087.2	2077.3	2074.2
12.5°	2469.3	2507.5	2490.7	2405.1	2280.6	2149.9	2030.6	1930.5	1855.6	1831.9	1830.4
15°	2536.6	2566.4	2507.5	2357.7	2172.0	1979.4	1767.0	1594.3	1501.0	1471.2	1468.9
17.5°	2599.3	2614.5	2497.6	2275.2	2012.3	1700.5	1418.5	1285.5	1253.4	1261.0	1262.6
20°	2652.8	2652.8	2464.0	2156.7	1760.9	1332.9	1154.8	1152.5	1175.4	1198.4	1202.9
22.5°	2711.6	2676.4	2405.1	1989.4	1404.7	1090.6	1064.6	1086.0	1112.0	1137.2	1141.0
25°	2784.2	2695.6	2323.4	1735.6	1104.4	990.5	1000.4	1018.0	1031.0	1047.0	1049.3
27.5°	2865.2	2720.0	2215.6	1386.4	958.4	927.8	935.5	941.6	940.0	946.2	947.7
30°	2962.3	2748.3	2068.1	1083.7	898.0	874.3	860.6	855.2	855.2	865.1	869.0
32.5°	3092.2	2790.3	1856.4	928.6	869.0	836.1	791.8	771.9	779.5	813.2	820.8
35°	3235.1	2835.4	1569.8	875.8	862.9	818.5	749.7	713.1	713.8	745.2	755.1
37.5°	3391.0	2892.7	1255.7	865.9	876.6	819.3	727.6	677.1	656.5	656.5	660.3
40°	3590.5	2951.6	1016.5	872.8	905.7	828.5	716.1	648.9	590.8	592.3	595.4
42.5°	3850.4	3002.0	888.1	887.3	940.8	840.7	715.3	611.4	561.0	595.4	626.7
45°	4139.2	3027.2	831.5	900.3	969.1	848.3	703.1	605.3	564.8	667.2	726.8
47.5°	4471.7	3012.7	800.2	904.9	976.0	848.3	689.4	619.8	591.5	772.7	842.2
50°	4836.3	2970.7	769.6	895.7	973.7	846.8	702.4	634.3	601.5	791.0	839.2
52.5°	5265.0	2935.5	737.5	875.8	957.6	838.4	717.6	628.2	570.1	719.2	752.8
55°	5754.1	2945.5	701.6	847.6	932.4	822.3	712.3	603.8	537.3	633.6	654.2
57.5°	6379.3	3063.9	658.8	811.6	898.0	795.6	693.2	592.3	527.3	574.7	587.0
60°	7077.1	3270.3	605.3	775.7	855.2	752.8	678.7	597.7	531.9	570.1	576.3
62.5°	7589.1	3390.3	559.4	723.0	797.1	705.4	660.3	604.5	544.2	586.2	584.7
65°	7728.2	3193.1	502.1	645.8	718.4	655.7	637.4	612.2	549.5	599.2	592.3
66°	7533.3	2980.6	476.9	609.9	678.7	631.3	625.9	611.4	547.2	600.7	589.2
67.5°	7060.3	2545.0	433.3	557.1	615.2	594.6	607.6	604.5	541.1	599.2	583.1
70°	5758.0	1736.4	370.7	463.9	512.1	523.5	572.4	580.1	521.2	572.4	537.3
72.5°	4023.1	1057.7	327.9	360.0	414.2	446.3	524.3	546.4	494.5	499.8	466.2
75°	1944.3	561.7	297.3	279.0	321.8	373.0	466.2	500.6	452.4	418.1	405.8
77.5°	606.1	343.2	252.2	224.7	252.2	301.1	389.8	438.7	402.8	350.0	345.4
80°	325.6	252.2	194.1	180.4	199.5	236.2	306.5	366.1	346.2	314.1	280.5
82.5°	214.8	163.6	143.7	139.9	152.1	180.4	227.8	303.4	303.4	269.0	195.7
85°	110.8	100.1	98.6	98.6	106.2	120.0	155.1	233.9	249.1	142.2	117.7
87.5°	55.0	57.3	53.5	55.8	59.6	58.8	74.1	117.7	140.6	86.4	71.8
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)