

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: P193212

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193212
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 15643.7 lumens
Efficiency: N/A
Efficacy: 121.3 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



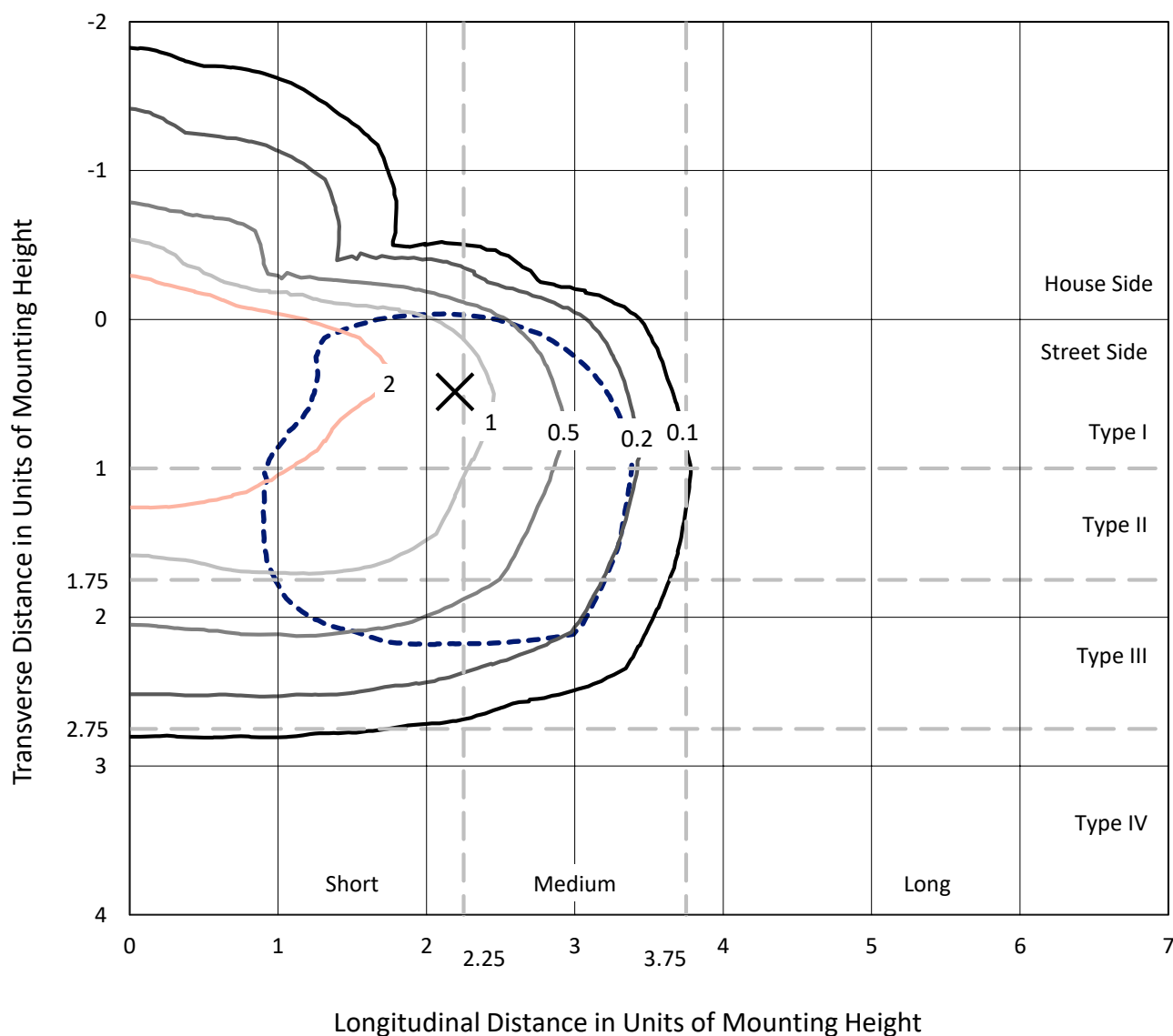
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

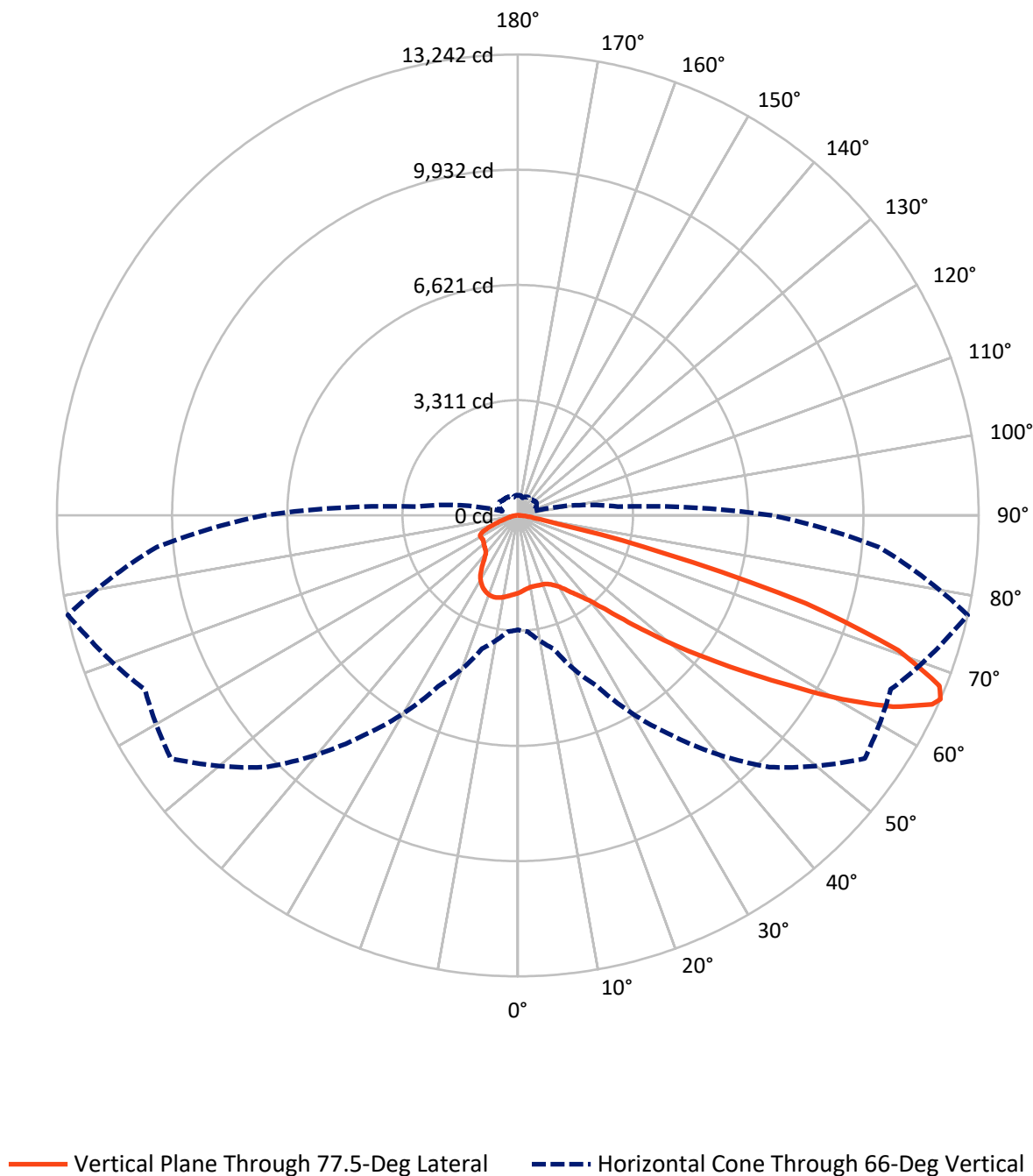


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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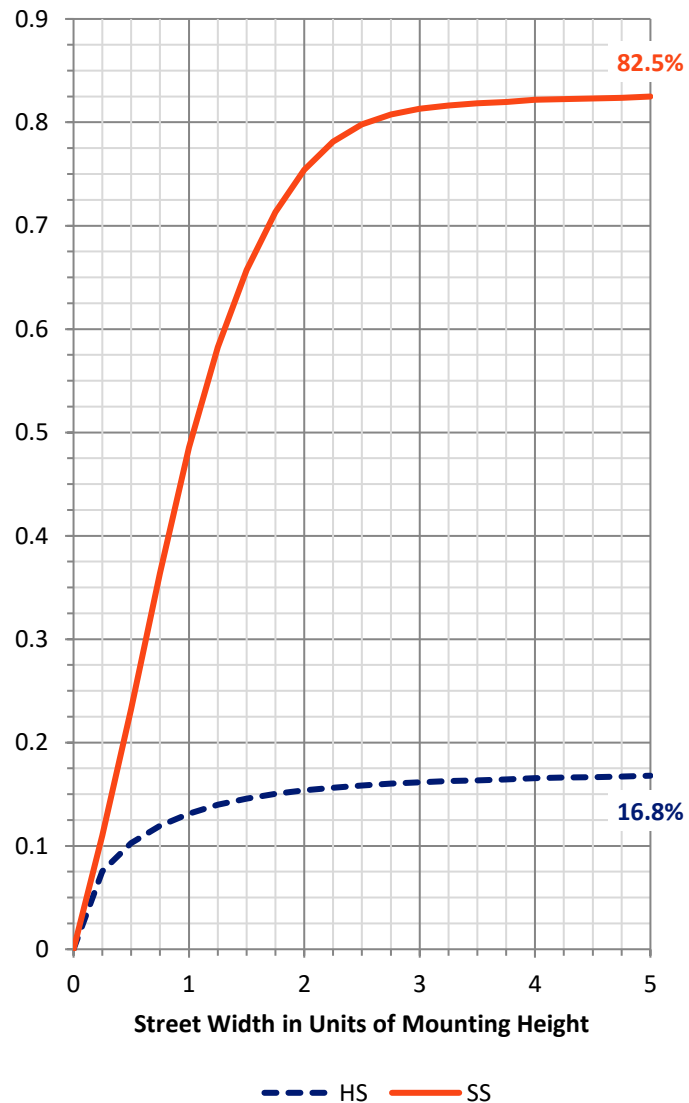
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2672.6	0.0	2672.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12971.1	0.0	12971.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	15643.7	0.0	15643.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	1.3
10°-20°	561.9	3.6
20°-30°	959.0	6.1
30°-40°	1535.1	9.8
40°-50°	2371.6	15.2
50°-60°	3363.8	21.5
60°-70°	4499.8	28.8
70°-80°	1954.2	12.5
80°-90°	199.3	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°	15643.7	100.0
0°-180°	15643.7	100.0

Coefficient of Utilization



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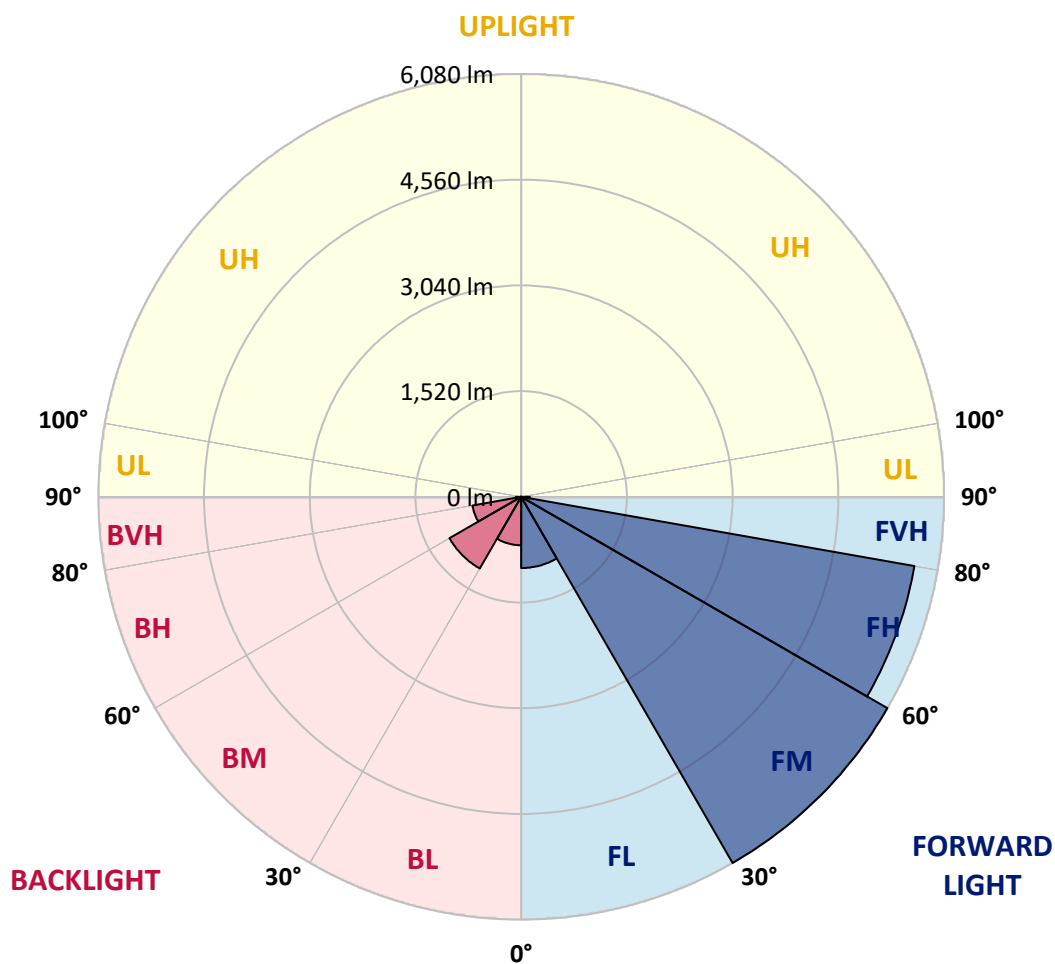
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1024.0	6.5			
FM	(30°-60°)	6080.0	38.9			
FH	(60°-80°)	5742.2	36.7			G3/7500
FVH	(80°-90°)	125.0	0.8			G2/225
BL	(0°-30°)	696.1	4.4	B2/1000		
BM	(30°-60°)	1190.5	7.6	B2/2500		
BH	(60°-80°)	711.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	74.3	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°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	1972.1	1985.4	1996.5	2006.9	2027.6	2061.5	2100.7	2132.5	2178.3	2187.2	2211.5
5°	1791.0	1791.0	1799.8	1815.4	1843.4	1894.4	1947.6	2018.7	2118.4	2142.1	2207.1
7.5°	1703.1	1703.8	1709.0	1722.3	1746.6	1793.2	1851.6	1935.1	2070.4	2109.6	2220.4
10°	1735.6	1728.2	1717.1	1710.5	1714.1	1741.5	1796.9	1890.0	2040.9	2091.1	2249.9
12.5°	1917.4	1903.3	1864.9	1813.9	1765.1	1745.2	1777.6	1868.6	2028.3	2086.7	2289.2
15°	2214.5	2208.5	2136.9	2031.2	1912.9	1813.9	1791.8	1860.4	2029.7	2091.9	2335.8
17.5°	2587.0	2578.9	2484.3	2330.6	2137.6	1944.7	1841.2	1867.1	2035.0	2100.7	2380.9
20°	2963.3	2938.2	2836.2	2652.9	2405.3	2122.9	1923.3	1884.0	2041.5	2110.4	2428.2
22.5°	3244.1	3223.4	3131.8	2953.8	2668.3	2329.1	2033.5	1913.6	2063.1	2138.4	2486.5
25°	3491.1	3492.6	3401.6	3229.3	2934.4	2547.9	2175.4	1992.8	2117.7	2196.0	2566.4
27.5°	3796.3	3778.6	3693.6	3522.8	3197.6	2768.8	2346.8	2101.4	2199.0	2278.0	2671.3
30°	4161.4	4148.9	4050.6	3857.0	3489.5	3006.2	2542.7	2227.8	2304.0	2386.0	2808.8
32.5°	4591.0	4585.1	4483.0	4233.9	3826.6	3285.5	2772.6	2394.9	2460.6	2545.6	3006.2
35°	5095.0	5095.8	4975.3	4676.0	4195.4	3610.8	3033.5	2609.9	2651.4	2740.1	3241.1
37.5°	5405.5	5443.2	5398.1	5092.8	4613.2	3974.5	3372.1	2895.3	2868.7	2958.0	3493.2
40°	5472.0	5517.8	5660.5	5505.2	5080.2	4375.1	3672.1	3169.5	3136.3	3245.6	3817.7
42.5°	5378.9	5442.4	5744.0	5853.4	5576.3	4868.8	4075.7	3576.8	3534.6	3681.7	4221.3
45°	5323.4	5370.7	5719.6	6034.5	6006.4	5426.9	4589.4	4088.3	4072.7	4265.7	4687.0
47.5°	5227.3	5270.2	5605.8	6076.7	6259.3	5938.5	5206.6	4713.7	4743.9	4996.8	5212.5
50°	5279.1	5296.8	5478.7	5969.5	6332.3	6313.2	5896.2	5438.1	5541.5	5857.1	5807.5
52.5°	5271.6	5317.5	5463.8	5793.6	6342.0	6544.5	6575.6	6246.0	6464.0	6826.2	6467.6
55°	4261.9	4346.3	5290.3	5749.2	6376.1	6771.5	7180.2	7097.4	7503.9	7926.0	7212.7
57.5°	4069.8	4123.0	4646.4	5842.3	6556.3	7204.5	7852.8	8034.7	8714.7	9204.8	8120.3
60°	4032.1	4097.9	4639.7	5956.2	6922.2	7910.5	8850.0	9169.2	10187.9	10724.5	9173.0
62.5°	3914.5	3985.6	4596.1	5941.4	7441.8	8886.9	10126.4	10375.6	11584.9	12106.7	10053.3
65°	3542.0	3608.7	4240.6	5702.6	7792.3	9929.2	11637.3	11481.4	12687.7	13080.2	10492.3
66°	3287.1	3352.1	3960.4	5421.8	7711.0	10224.8	12172.5	11823.6	12934.5	13242.0	10406.6
67.5°	2820.6	2871.7	3416.4	4792.7	7278.6	10307.6	12622.6	12080.8	12960.5	13069.0	9916.6
70°	1782.1	1796.9	2220.4	3308.5	5509.7	8939.4	11937.4	11442.1	11891.6	11597.5	8313.3
72.5°	773.1	768.0	1065.9	1683.0	3119.3	5998.4	9656.5	9441.3	9328.2	8657.0	5819.3
75°	430.2	436.1	553.6	781.3	1267.6	2946.2	6316.9	6044.9	5103.9	4355.2	2638.8
77.5°	345.2	353.4	459.0	554.4	569.1	1027.5	2955.9	2405.3	1448.0	1162.0	733.2
80°	272.7	287.6	400.7	431.7	383.6	423.5	955.0	763.5	572.8	525.5	379.9
82.5°	215.8	226.1	343.7	326.6	268.3	285.2	457.6	445.7	372.6	339.2	219.5
85°	155.2	174.5	282.3	246.2	175.9	192.2	303.7	291.1	213.6	174.5	96.8
87.5°	63.6	82.8	199.6	163.4	98.4	89.5	151.6	142.7	101.3	74.0	48.1
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°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2227.1	2244.8	2267.7	2281.8	2289.2	2294.3	2302.5	2301.8	2304.0	2304.8	2307.7
5°	2241.9	2271.4	2304.8	2313.6	2313.6	2305.5	2297.2	2283.9	2278.8	2277.4	2278.8
7.5°	2280.3	2312.8	2341.7	2331.3	2309.0	2276.6	2234.5	2197.5	2177.5	2170.9	2169.5
10°	2329.1	2368.3	2380.1	2340.9	2275.9	2197.5	2113.9	2053.4	2018.7	2009.1	2006.1
12.5°	2388.2	2425.2	2408.9	2326.1	2205.6	2079.2	1963.9	1867.1	1794.7	1771.7	1770.3
15°	2453.3	2482.2	2425.2	2280.3	2100.7	1914.4	1709.0	1541.8	1451.7	1422.9	1420.7
17.5°	2513.8	2528.7	2415.6	2200.5	1946.2	1644.7	1371.9	1243.3	1212.2	1219.7	1221.1
20°	2565.6	2565.6	2383.1	2085.9	1703.1	1289.1	1116.8	1114.7	1136.9	1159.0	1163.4
22.5°	2622.5	2588.6	2326.1	1924.0	1358.5	1054.8	1029.7	1050.3	1075.4	1099.9	1103.5
25°	2692.8	2607.0	2247.0	1678.7	1068.1	957.9	967.6	984.5	997.1	1012.7	1014.9
27.5°	2771.2	2630.6	2142.8	1340.8	926.9	897.3	904.7	910.6	909.1	915.0	916.5
30°	2865.0	2658.1	2000.2	1048.2	868.5	845.5	832.3	827.1	827.1	836.7	840.4
32.5°	2990.7	2698.7	1795.4	898.1	840.4	808.6	765.8	746.6	753.9	786.4	793.9
35°	3128.8	2742.3	1518.2	847.1	834.5	791.7	725.2	689.7	690.4	720.7	730.3
37.5°	3279.6	2797.7	1214.4	837.5	847.9	792.3	703.6	654.9	634.9	634.9	638.6
40°	3472.6	2854.6	983.2	844.1	875.9	801.2	692.6	627.5	571.3	572.8	575.8
42.5°	3723.9	2903.4	858.9	858.1	909.9	813.1	691.8	591.3	542.6	575.8	606.1
45°	4003.3	2927.8	804.2	870.7	937.2	820.4	680.0	585.4	546.2	645.2	703.0
47.5°	4324.8	2913.7	773.9	875.1	943.9	820.4	666.7	599.5	572.1	747.4	814.5
50°	4677.4	2873.1	744.4	866.3	941.7	819.0	679.3	613.5	581.7	765.1	811.6
52.5°	5092.0	2839.1	713.3	847.1	926.2	810.8	694.2	607.6	551.4	695.6	728.1
55°	5565.1	2848.7	678.5	819.8	901.8	795.3	688.9	584.0	519.6	612.7	632.7
57.5°	6169.8	2963.3	637.2	785.0	868.5	769.5	670.5	572.8	510.0	555.8	567.7
60°	6844.6	3162.8	585.4	750.3	827.1	728.1	656.3	578.0	514.5	551.4	557.3
62.5°	7339.8	3278.9	541.1	699.3	771.0	682.3	638.6	584.6	526.3	566.9	565.4
65°	7474.4	3088.2	485.6	624.6	694.8	634.2	616.4	592.0	531.4	579.5	572.8
66°	7286.0	2882.7	461.2	589.9	656.3	610.5	605.4	591.3	529.3	580.9	569.9
67.5°	6828.3	2461.4	419.1	538.8	595.0	575.0	587.6	584.6	523.4	579.5	564.0
70°	5568.8	1679.5	358.5	448.6	495.3	506.3	553.6	561.0	504.1	553.6	519.6
72.5°	3890.9	1023.0	317.1	348.1	400.7	431.7	507.1	528.5	478.2	483.4	450.9
75°	1880.5	543.2	287.6	269.8	311.2	360.7	450.9	484.1	437.6	404.4	392.5
77.5°	586.1	331.9	243.9	217.3	243.9	291.1	377.0	424.3	389.5	338.4	334.2
80°	314.8	243.9	187.7	174.5	193.0	228.4	296.4	354.1	334.9	303.7	271.3
82.5°	207.7	158.2	139.0	135.3	147.1	174.5	220.2	293.5	293.5	260.1	189.2
85°	107.2	96.8	95.4	95.4	102.7	116.1	150.0	226.1	240.9	137.4	113.8
87.5°	53.2	55.4	51.8	54.0	57.7	57.0	71.7	113.8	136.0	83.5	69.5
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)