

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: P192891

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11580.4 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 96
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



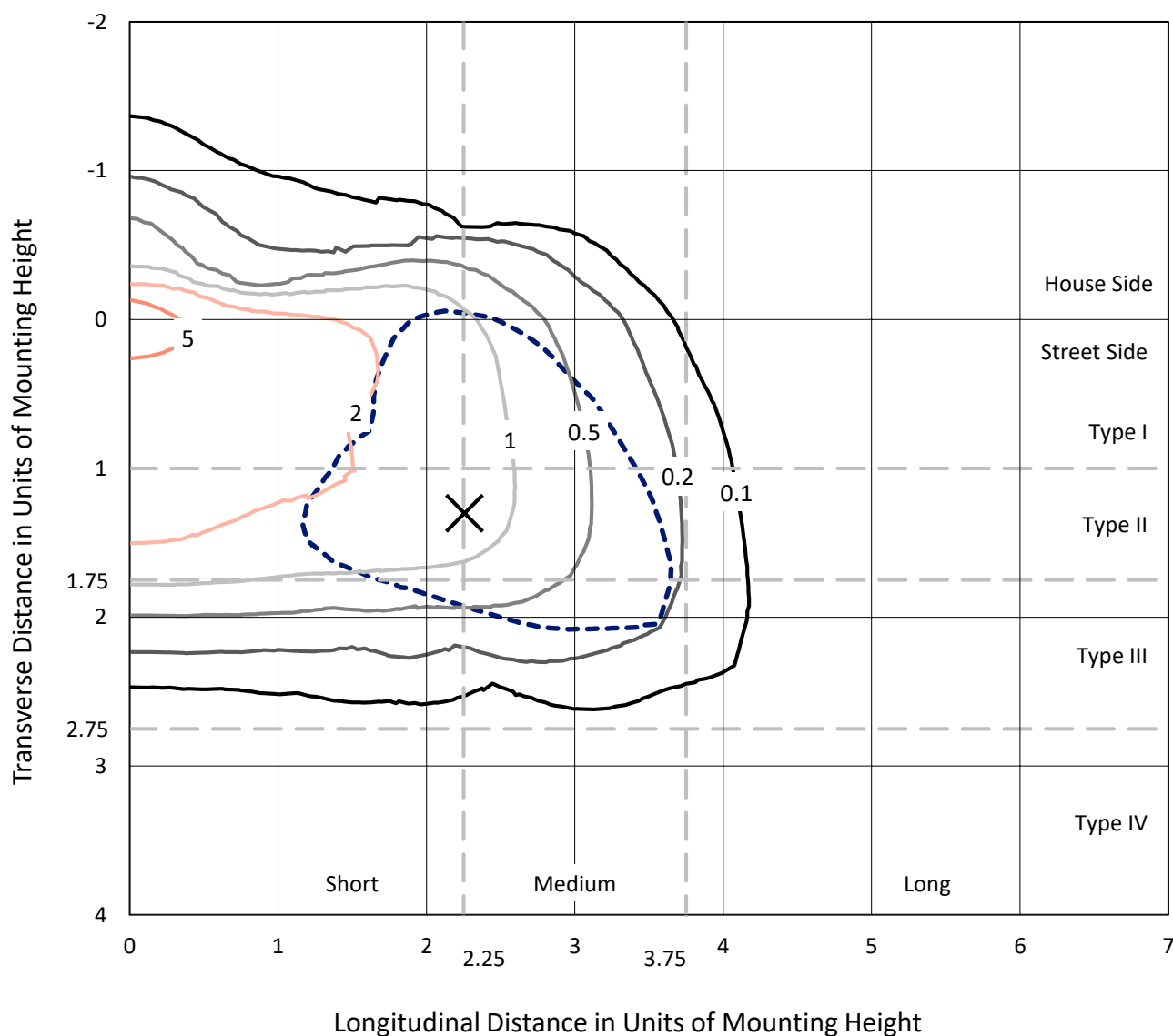
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

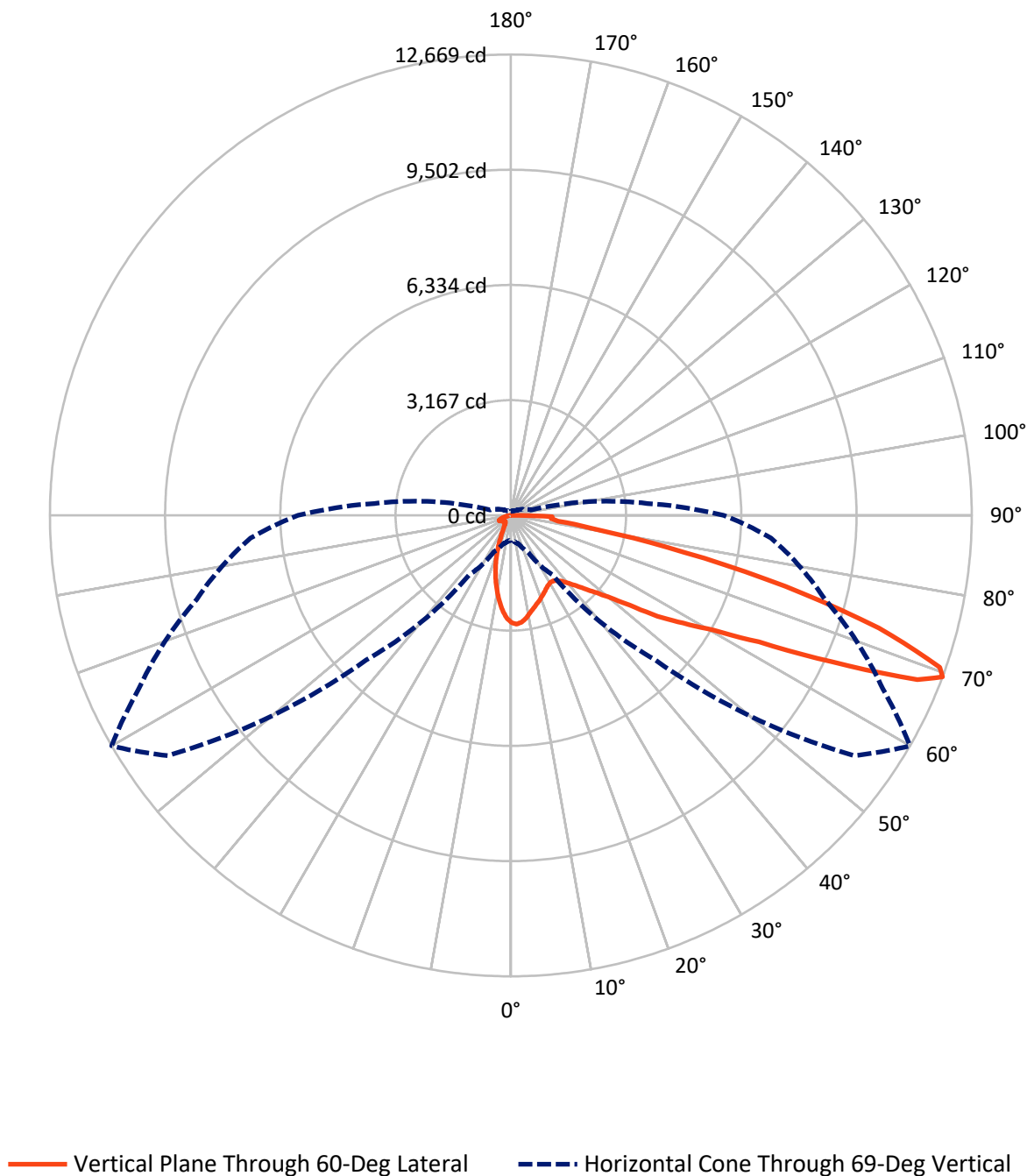


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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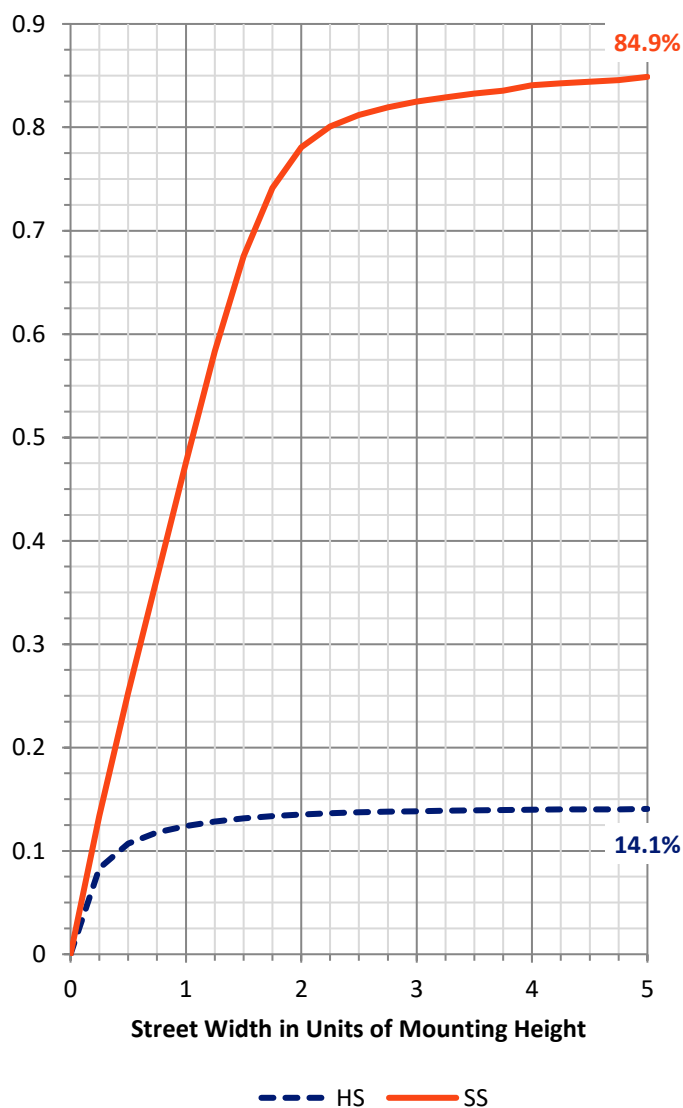
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1647.5	0.0	1647.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9932.9	0.0	9932.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	11580.4	0.0	11580.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	2.2
10°-20°	531.6	4.6
20°-30°	677.3	5.8
30°-40°	931.2	8.0
40°-50°	1510.9	13.0
50°-60°	2423.1	20.9
60°-70°	3225.0	27.8
70°-80°	1741.2	15.0
80°-90°	290.5	2.5
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°	11580.4	100.0
0°-180°	11580.4	100.0

Coefficient of Utilization



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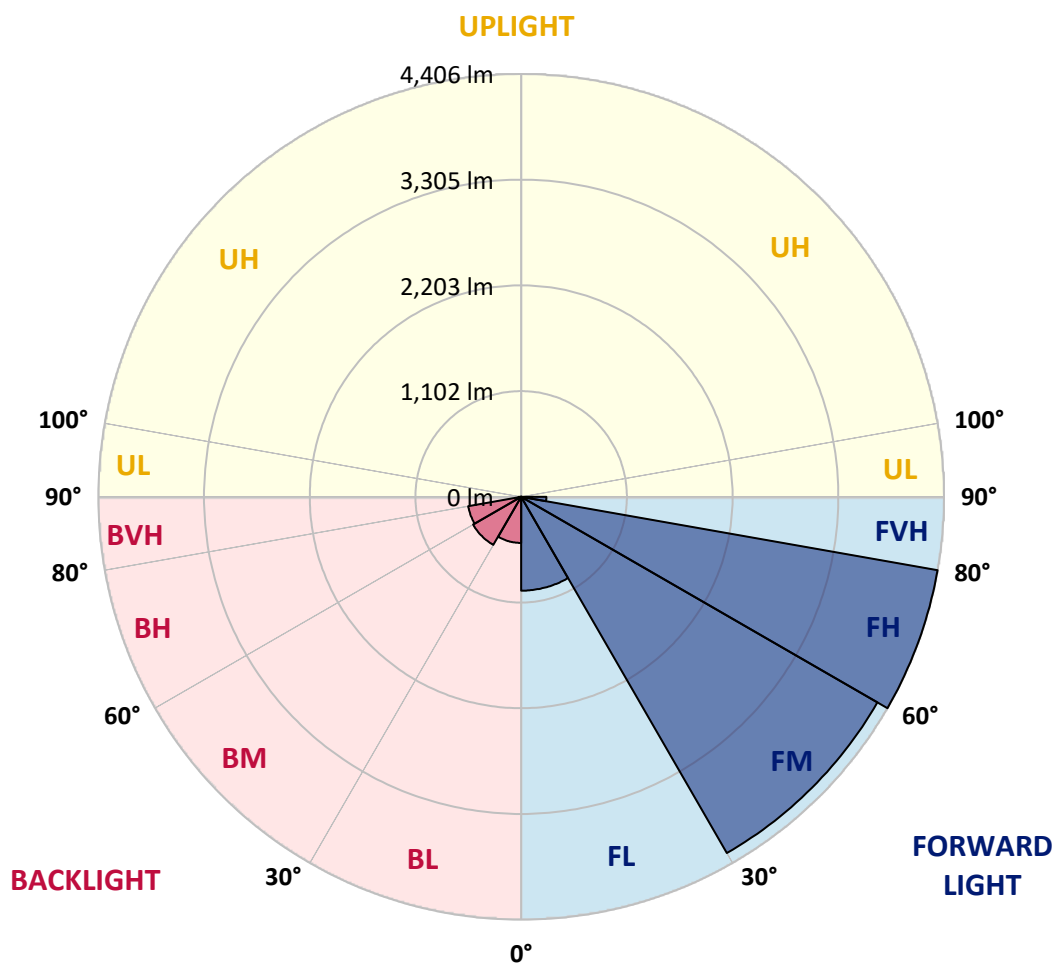
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	977.8	8.4			
FM	(30°-60°)	4286.4	37.0			
FH	(60°-80°)	4406.1	38.0			G2/5000
FVH	(80°-90°)	262.6	2.3			G3/500
BL	(0°-30°)	480.6	4.2	B1/500		
BM	(30°-60°)	578.8	5.0	B1/1000		
BH	(60°-80°)	560.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	28.0	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9
2.5°	3011.3	3018.0	3015.2	3013.5	3018.5	3010.7	2994.5	2989.5	2981.5	2963.2	2931.9
5°	2898.3	2918.5	2917.3	2932.4	2957.5	2964.3	2957.0	2958.0	2943.6	2920.6	2868.6
7.5°	2703.1	2711.5	2715.8	2749.0	2794.8	2831.7	2863.0	2873.1	2866.4	2846.9	2779.7
10°	2501.7	2508.4	2519.0	2557.6	2615.7	2666.7	2726.0	2760.1	2774.6	2771.3	2696.3
12.5°	2328.8	2335.5	2349.5	2393.1	2462.4	2525.2	2611.3	2653.8	2688.6	2709.2	2628.7
15°	2173.8	2188.4	2201.8	2252.2	2330.0	2412.1	2509.4	2563.2	2616.9	2663.3	2568.8
17.5°	2053.0	2067.5	2075.4	2121.3	2204.1	2304.8	2418.9	2482.1	2549.2	2625.3	2509.4
20°	1983.0	1989.8	1986.5	2012.2	2086.7	2193.4	2328.8	2402.1	2483.3	2589.5	2450.1
22.5°	1963.5	1964.1	1951.8	1948.9	1997.0	2087.2	2232.6	2321.5	2421.0	2566.0	2399.4
25°	2011.0	2009.4	1975.9	1948.4	1953.4	2006.0	2139.8	2243.2	2369.1	2560.9	2360.1
27.5°	2116.8	2121.9	2072.0	2020.5	1969.6	1968.0	2069.3	2178.3	2326.5	2583.9	2343.4
30°	2265.1	2273.4	2220.2	2154.8	2059.2	1980.4	2041.8	2139.8	2300.2	2631.4	2340.6
32.5°	2427.3	2436.2	2395.9	2327.1	2201.8	2056.4	2060.8	2143.1	2299.2	2698.0	2359.6
35°	2600.2	2610.2	2589.5	2531.3	2392.0	2196.7	2133.7	2197.3	2335.5	2799.8	2410.5
37.5°	2793.1	2808.7	2814.4	2759.1	2610.2	2382.0	2252.7	2300.2	2417.8	2941.4	2503.9
40°	3071.2	3092.9	3091.3	3011.8	2860.2	2631.9	2436.8	2449.0	2545.8	3130.4	2653.3
42.5°	3603.7	3608.2	3468.9	3296.1	3135.4	2895.0	2653.8	2643.7	2722.6	3369.9	2873.1
45°	4281.1	4262.6	3952.8	3618.7	3423.0	3197.0	2936.4	2887.0	2946.9	3661.9	3148.3
47.5°	4843.4	4800.9	4409.2	3948.3	3727.3	3525.4	3268.1	3181.8	3214.9	3993.0	3504.2
50°	5038.6	5006.7	4682.2	4222.5	4015.4	3925.9	3676.3	3554.4	3563.4	4388.0	3920.9
52.5°	4996.7	4992.2	4775.6	4403.0	4285.0	4346.6	4254.9	4089.8	4002.5	4826.5	4370.6
55°	4897.5	4907.1	4828.8	4613.4	4593.3	4752.7	5010.6	4888.6	4617.3	5269.0	4835.5
57.5°	4553.6	4578.2	4750.5	4878.0	5089.6	5326.6	5619.2	5584.6	5279.1	5747.4	5388.2
60°	3668.6	3725.6	4187.7	4826.5	5600.2	6342.0	6472.8	6392.3	5961.6	6340.9	6118.2
62.5°	2570.5	2629.8	3179.1	4178.7	5516.3	7488.7	7999.0	7651.5	6941.7	7215.2	7063.1
65°	1376.1	1404.6	1824.2	2899.4	4657.0	7725.4	10229.3	9700.6	8493.5	8293.3	7871.4
67.5°	759.2	774.7	935.4	1464.0	2982.8	6802.9	11650.2	12049.5	10432.9	9010.9	7724.3
69°	686.3	700.9	806.2	1108.8	1995.9	5624.7	11511.4	12668.8	11283.2	8939.8	7180.5
70°	671.3	684.7	779.2	1022.0	1615.5	4636.3	11046.5	12510.5	11485.7	8685.3	6706.2
72.5°	604.2	618.7	710.4	918.0	1380.6	2311.5	8750.2	10577.8	10427.8	7530.7	5086.7
75°	563.3	576.8	732.2	898.9	1321.8	1462.9	5768.6	7795.8	7665.5	5267.9	2742.7
77.5°	241.1	240.0	339.6	760.8	1341.4	1416.4	3099.6	4870.1	4443.3	2251.7	787.6
80°	161.1	158.3	161.1	223.8	1230.1	1424.2	1623.9	2472.0	1867.2	573.9	388.2
82.5°	138.8	136.5	141.5	136.5	432.4	1625.7	1380.6	1314.6	887.7	326.1	192.4
85°	93.4	89.5	122.0	122.5	204.2	1444.4	1555.2	1110.4	718.3	193.6	95.0
87.5°	44.8	43.6	71.0	86.8	119.7	586.8	1744.8	1137.8	724.4	99.0	45.4
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°	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9
2.5°	2922.3	2899.4	2877.1	2850.1	2822.1	2790.9	2775.1	2759.6	2755.6	2751.1	2735.6
5°	2841.8	2809.4	2753.5	2691.8	2626.9	2563.8	2515.7	2485.4	2462.4	2450.8	2430.0
7.5°	2737.7	2690.2	2592.2	2485.9	2376.9	2277.3	2191.2	2136.9	2085.4	2061.4	2034.0
10°	2638.7	2567.7	2415.5	2258.8	2102.2	1951.8	1810.2	1710.1	1621.2	1571.3	1536.0
12.5°	2553.7	2456.3	2245.5	2033.5	1818.6	1604.4	1392.4	1225.7	1086.4	1013.1	975.5
15°	2470.9	2353.5	2083.8	1814.7	1538.9	1247.5	968.9	779.8	664.7	618.7	603.0
17.5°	2395.9	2245.5	1921.6	1594.3	1250.3	897.9	651.1	547.1	502.9	487.9	482.8
20°	2314.7	2136.3	1753.2	1363.8	949.4	627.7	508.5	462.6	444.6	440.2	438.0
22.5°	2236.5	2029.0	1592.0	1117.1	681.9	484.4	436.9	417.9	415.0	419.0	419.0
25°	2169.9	1932.8	1418.0	859.3	500.6	407.7	391.0	386.6	397.1	411.7	414.5
27.5°	2120.1	1853.9	1232.9	634.4	398.9	354.6	354.1	361.4	387.7	415.6	421.2
30°	2086.0	1779.0	1034.9	457.6	334.6	312.2	321.1	336.7	375.5	415.0	425.7
32.5°	2068.8	1723.6	828.5	354.1	286.4	274.1	289.2	308.2	346.3	383.2	397.1
35°	2082.2	1682.7	633.8	295.3	252.8	243.3	259.1	277.5	299.8	315.5	326.1
37.5°	2132.4	1666.4	478.3	264.6	229.9	220.9	233.3	243.8	252.8	257.3	262.3
40°	2241.0	1683.8	383.2	248.9	217.1	205.9	210.9	214.8	220.3	224.8	227.2
42.5°	2401.0	1735.8	343.5	242.8	210.4	194.2	193.0	194.7	201.9	210.4	212.0
45°	2624.7	1827.6	340.7	246.7	206.9	184.6	179.6	181.8	193.0	205.9	208.1
47.5°	2910.5	1967.4	363.1	258.4	209.8	179.6	171.2	173.9	187.9	205.3	208.1
50°	3256.8	2162.7	400.6	275.8	222.2	180.8	168.4	170.0	184.6	203.7	206.4
52.5°	3665.7	2439.5	441.4	292.6	234.9	187.9	170.7	166.7	180.2	196.8	200.3
55°	4120.6	2794.8	483.4	307.7	241.7	196.8	175.2	162.2	171.7	185.7	188.5
57.5°	4678.8	3291.6	556.0	322.2	246.2	203.1	179.6	157.8	161.1	171.2	173.4
60°	5434.7	3994.2	684.2	346.3	256.2	205.3	178.9	153.8	150.4	156.0	157.3
62.5°	6340.4	4757.1	791.0	376.5	273.0	206.9	175.7	151.0	141.5	141.5	142.7
65°	6877.9	4961.4	731.7	401.6	287.1	205.3	171.7	148.3	134.8	128.7	129.3
67.5°	6421.9	4363.4	627.0	406.7	286.4	197.4	165.6	143.2	128.1	118.5	118.0
69°	5850.9	3764.7	580.0	393.3	273.0	187.4	157.8	137.6	123.0	113.0	112.4
70°	5390.5	3399.5	549.3	378.7	258.4	180.2	151.7	132.5	119.2	109.7	108.5
72.5°	3919.2	2227.6	469.4	325.6	213.2	151.0	130.9	116.4	106.3	100.7	99.5
75°	1958.5	1062.3	381.0	264.1	163.4	120.8	107.4	97.4	92.4	91.2	90.5
77.5°	643.3	486.6	272.4	196.8	121.4	94.5	86.8	79.4	78.3	81.7	80.6
80°	353.6	283.1	172.8	130.3	82.8	69.4	68.3	64.4	66.0	71.6	70.5
82.5°	180.2	147.2	106.8	78.3	55.9	49.8	54.3	52.0	54.3	59.3	58.8
85°	88.9	80.6	67.7	47.5	36.9	31.9	38.6	40.3	41.4	45.4	45.4
87.5°	51.5	47.5	35.8	22.4	18.5	16.8	22.4	21.9	25.7	28.0	27.5
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)