

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: P192840

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12657.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-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



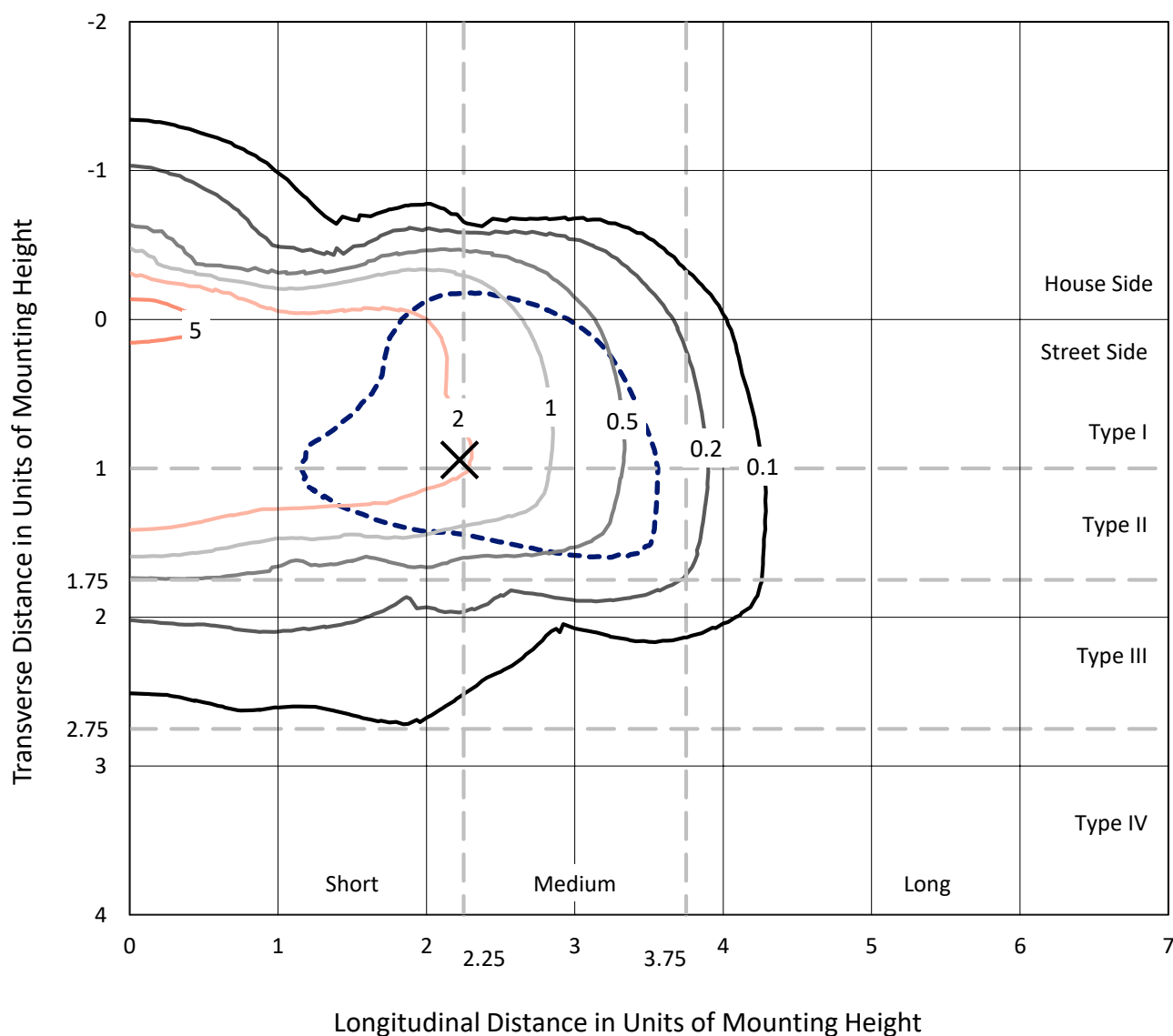
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

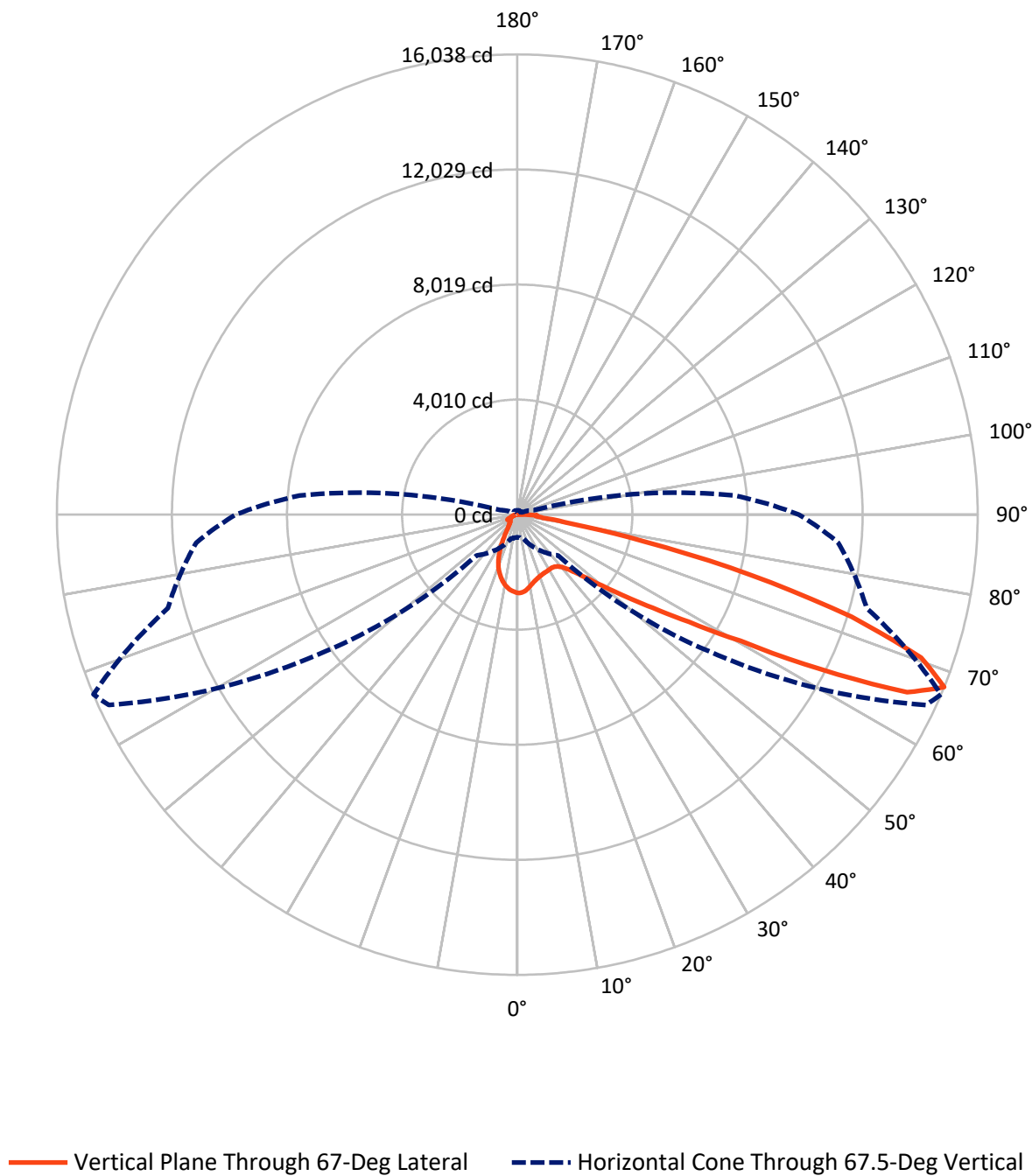


Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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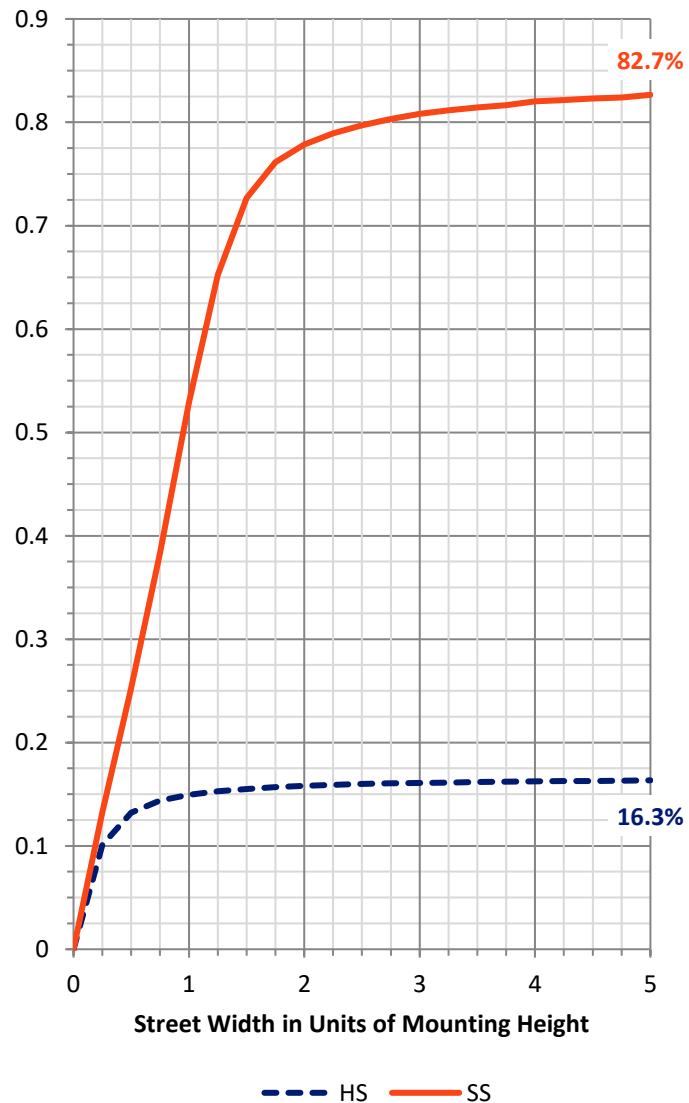
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2097.2	0.0	2097.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	10560.4	0.0	10560.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	12657.7	0.0	12657.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	1.8
10°-20°	539.0	4.3
20°-30°	730.6	5.8
30°-40°	1038.6	8.2
40°-50°	1737.6	13.7
50°-60°	2748.9	21.7
60°-70°	3501.8	27.7
70°-80°	1834.2	14.5
80°-90°	294.2	2.3
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°	12657.7	100.0
0°-180°	12657.7	100.0

Coefficient of Utilization



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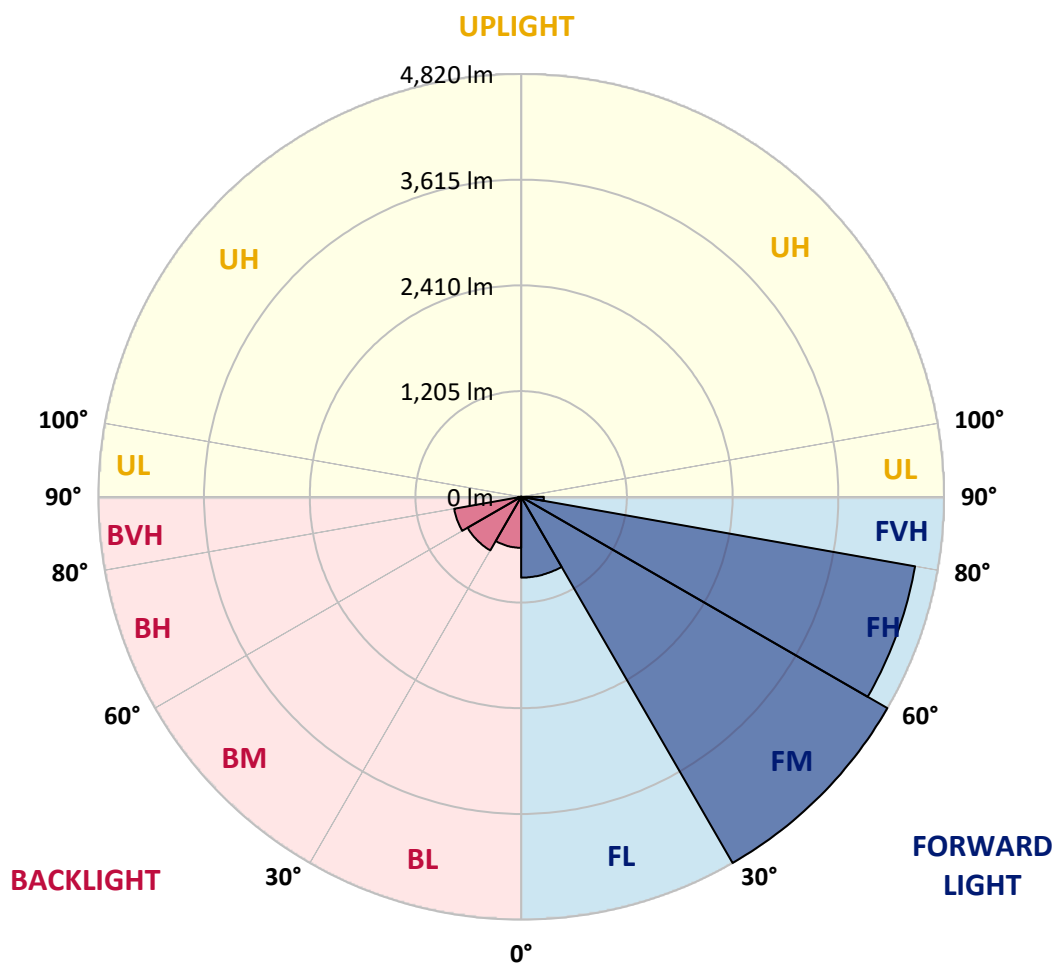
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.2	7.3			
FM	(30°-60°)	4820.3	38.1			
FH	(60°-80°)	4560.3	36.0			G2/5000
FVH	(80°-90°)	258.7	2.0			G3/500
BL	(0°-30°)	581.3	4.6	B2/1000		
BM	(30°-60°)	704.7	5.6	B1/1000		
BH	(60°-80°)	775.7	6.1	B2/1000		G2/1000
BVH	(80°-90°)	35.5	0.3			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3
2.5°	2617.9	2622.2	2636.0	2644.7	2684.1	2700.9	2712.8	2724.6	2726.4	2732.1	2726.4
5°	2343.3	2352.6	2378.1	2406.9	2483.0	2543.0	2606.1	2671.6	2683.4	2725.9	2737.7
7.5°	2130.3	2128.0	2149.1	2183.4	2261.4	2344.4	2454.9	2585.4	2611.0	2706.5	2752.7
10°	1975.0	1973.1	1995.5	2031.1	2105.4	2184.1	2308.8	2487.4	2523.7	2676.0	2767.1
12.5°	1860.1	1860.6	1883.2	1922.5	1998.1	2077.3	2204.1	2392.6	2438.7	2640.4	2782.1
15°	1783.9	1788.9	1807.0	1848.8	1922.5	2001.8	2125.9	2321.4	2373.2	2612.3	2798.9
17.5°	1758.3	1766.5	1772.7	1803.4	1866.3	1945.6	2067.3	2269.0	2323.8	2592.9	2813.9
20°	1782.1	1791.5	1779.7	1790.2	1830.1	1900.0	2021.2	2227.8	2283.9	2571.1	2815.7
22.5°	1883.8	1892.6	1857.6	1827.1	1824.5	1867.0	1983.0	2195.3	2253.4	2554.8	2816.3
25°	2063.0	2068.6	2010.0	1938.8	1869.4	1855.1	1956.2	2172.8	2234.6	2540.5	2804.4
27.5°	2282.7	2287.1	2219.6	2114.8	1975.6	1883.2	1946.9	2159.7	2224.0	2528.0	2784.6
30°	2549.9	2570.5	2479.9	2347.7	2144.8	1966.2	1965.6	2152.9	2212.2	2506.7	2745.2
32.5°	2823.3	2832.0	2769.5	2635.4	2372.6	2112.3	2018.0	2157.9	2209.0	2481.2	2695.3
35°	3100.3	3111.6	3071.1	2963.1	2684.1	2326.3	2120.4	2187.2	2228.4	2472.4	2660.4
37.5°	3459.2	3474.2	3418.0	3293.3	3063.0	2616.6	2290.8	2260.8	2287.7	2497.4	2649.7
40°	4026.6	4019.8	3855.6	3669.7	3477.4	2988.0	2534.3	2385.6	2401.3	2578.0	2682.2
42.5°	4687.1	4670.2	4387.6	4095.4	3933.0	3437.4	2856.4	2602.2	2599.2	2736.5	2796.4
45°	5213.9	5200.2	4945.5	4585.4	4455.5	3949.2	3272.7	2925.0	2901.9	2988.0	3007.4
47.5°	5499.1	5499.8	5353.0	5059.1	5056.0	4599.7	3807.5	3391.9	3352.0	3392.5	3372.0
50°	5399.3	5412.3	5396.8	5303.1	5604.0	5452.4	4506.1	4042.9	3962.4	4002.3	3923.1
52.5°	4916.1	4933.0	5025.4	5168.9	5834.3	6482.9	5532.3	4851.8	4758.2	4743.9	4655.9
55°	4059.7	4080.4	4268.9	4659.1	5642.7	7175.2	7151.4	5883.1	5733.8	5598.5	5561.0
57.5°	2798.2	2832.5	3136.0	3715.3	5022.8	7384.3	9079.6	7353.0	7049.6	6576.6	6585.3
60°	1577.3	1617.2	1975.0	2501.2	3772.0	7157.0	10546.4	9579.6	8939.1	7721.9	7786.8
62.5°	1003.1	1046.1	1317.6	1737.8	2263.3	5933.7	11147.5	12674.9	11861.6	9133.8	9197.6
65°	812.2	830.8	958.7	1434.3	1643.5	3574.8	10691.2	15224.7	14921.4	10925.9	10628.8
67.5°	792.6	799.0	865.2	1204.0	1576.1	2009.3	8527.8	15701.6	16038.0	12599.3	11224.9
70°	783.4	805.2	975.0	1149.2	1509.3	1694.7	5124.7	14394.6	14925.8	13037.0	10431.5
72.5°	380.1	378.9	490.6	1039.3	1700.3	1757.8	2632.8	11646.8	12179.9	11294.7	8572.1
75°	306.5	280.2	267.8	380.8	1634.7	1815.2	1677.7	8014.0	8399.9	7572.8	5269.5
77.5°	290.8	259.7	237.8	238.4	690.9	1925.0	1421.3	4435.5	4547.9	3420.6	1443.8
80°	240.9	212.2	196.6	221.6	334.6	1833.3	1536.7	2007.4	1842.0	840.2	480.6
82.5°	167.2	152.3	147.9	186.0	267.8	1306.4	1787.1	1078.6	904.4	420.7	296.5
85°	106.7	91.1	101.2	135.5	208.4	603.0	1840.8	840.7	668.5	267.1	167.2
87.5°	49.2	40.0	49.9	75.0	136.0	207.8	1751.5	944.4	688.5	141.1	105.4
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°	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3	2730.3
2.5°	2731.5	2719.6	2710.2	2692.8	2673.5	2654.7	2637.8	2616.6	2610.4	2604.7	2613.5
5°	2740.2	2728.3	2694.0	2640.4	2581.0	2525.5	2470.0	2422.5	2393.3	2376.9	2386.3
7.5°	2753.4	2736.5	2665.3	2566.7	2460.0	2362.6	2262.1	2181.6	2122.3	2094.2	2102.2
10°	2765.2	2732.7	2616.6	2468.7	2312.7	2167.8	2009.3	1878.1	1780.8	1729.7	1742.1
12.5°	2770.2	2718.4	2548.6	2346.4	2132.3	1920.0	1686.5	1490.7	1350.8	1299.5	1288.9
15°	2775.1	2702.1	2473.7	2207.1	1914.4	1614.2	1287.1	1052.3	936.3	910.6	905.1
17.5°	2776.4	2674.0	2388.9	2056.1	1659.1	1250.3	880.1	731.0	731.6	772.8	777.7
20°	2763.2	2632.3	2285.8	1868.3	1353.2	864.5	604.2	578.6	672.9	775.8	788.3
22.5°	2733.3	2576.7	2169.2	1649.2	1003.1	569.2	467.5	495.6	617.4	743.4	757.8
25°	2695.3	2509.2	2031.1	1395.1	664.2	407.0	392.0	426.3	508.7	592.9	601.2
27.5°	2643.4	2429.4	1876.3	1104.2	431.3	335.2	345.2	368.3	402.0	439.4	443.1
30°	2576.7	2333.9	1710.9	805.2	325.8	301.4	315.9	328.4	342.6	364.0	365.8
32.5°	2499.9	2242.1	1541.1	556.1	289.0	284.0	295.2	301.4	312.7	325.8	327.1
35°	2435.6	2154.7	1365.0	393.3	273.3	270.9	278.4	280.9	291.5	305.8	307.1
37.5°	2398.8	2083.6	1183.5	317.1	262.8	259.1	263.5	263.5	278.4	299.6	302.7
40°	2401.3	2044.2	1001.8	286.5	254.0	249.0	249.6	249.6	269.0	292.2	294.0
42.5°	2469.4	2054.2	840.7	274.7	247.2	241.6	238.4	240.3	256.5	271.5	272.8
45°	2629.1	2124.8	689.8	267.1	240.3	238.4	231.6	231.0	237.2	244.0	244.0
47.5°	2891.3	2264.0	587.4	262.1	234.7	234.1	225.9	217.9	217.2	219.7	219.7
50°	3317.5	2503.6	518.7	256.5	231.0	225.9	216.6	204.1	199.7	201.6	201.6
52.5°	3956.9	2931.2	492.5	249.0	222.9	214.7	204.1	191.6	187.9	188.5	188.5
55°	4795.1	3587.8	488.7	240.3	214.1	201.0	192.3	182.9	178.5	179.7	179.7
57.5°	5819.3	4496.1	555.6	226.6	202.2	187.3	182.3	176.0	172.8	174.9	174.2
60°	7064.6	5684.5	824.0	212.2	190.3	174.9	174.9	169.8	167.2	169.2	168.6
62.5°	8499.1	7049.6	1158.4	201.6	177.9	164.8	167.2	164.8	162.2	163.6	162.9
65°	9771.2	7939.1	1084.8	193.5	165.4	155.4	159.8	158.5	156.7	157.9	157.4
67.5°	9807.9	7609.6	609.2	184.7	153.5	146.1	152.3	151.7	150.4	151.7	151.1
70°	8753.1	6425.4	343.3	168.6	141.1	134.8	143.5	142.9	141.7	144.2	143.5
72.5°	7012.8	4662.7	251.0	148.6	128.6	122.9	133.0	132.3	132.3	136.0	134.2
75°	4035.4	2399.5	200.4	127.3	115.5	111.1	119.8	120.5	121.8	126.7	122.9
77.5°	1150.4	747.8	163.6	107.9	99.2	97.4	106.1	107.4	107.9	113.6	108.6
80°	427.5	344.6	134.8	90.4	81.2	81.7	89.9	91.8	92.5	98.0	91.8
82.5°	272.8	227.3	109.3	69.9	63.7	63.1	72.9	75.5	75.5	76.2	72.4
85°	159.2	136.0	82.4	50.6	44.9	43.0	54.3	58.7	56.9	55.5	53.1
87.5°	106.7	93.6	50.6	28.1	24.4	23.1	31.8	35.0	33.8	31.8	29.9
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)