

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: P192772

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12674.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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



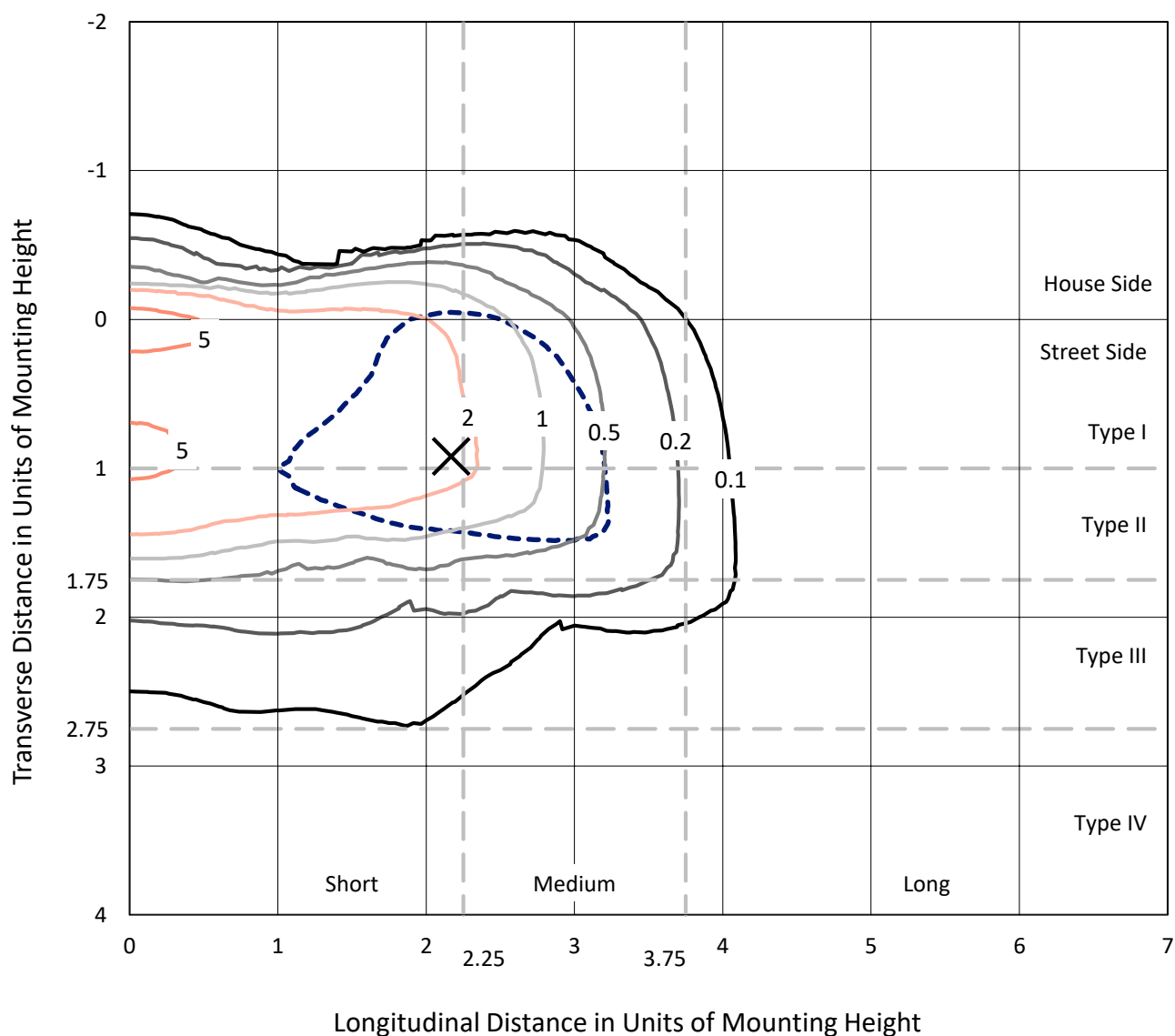
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

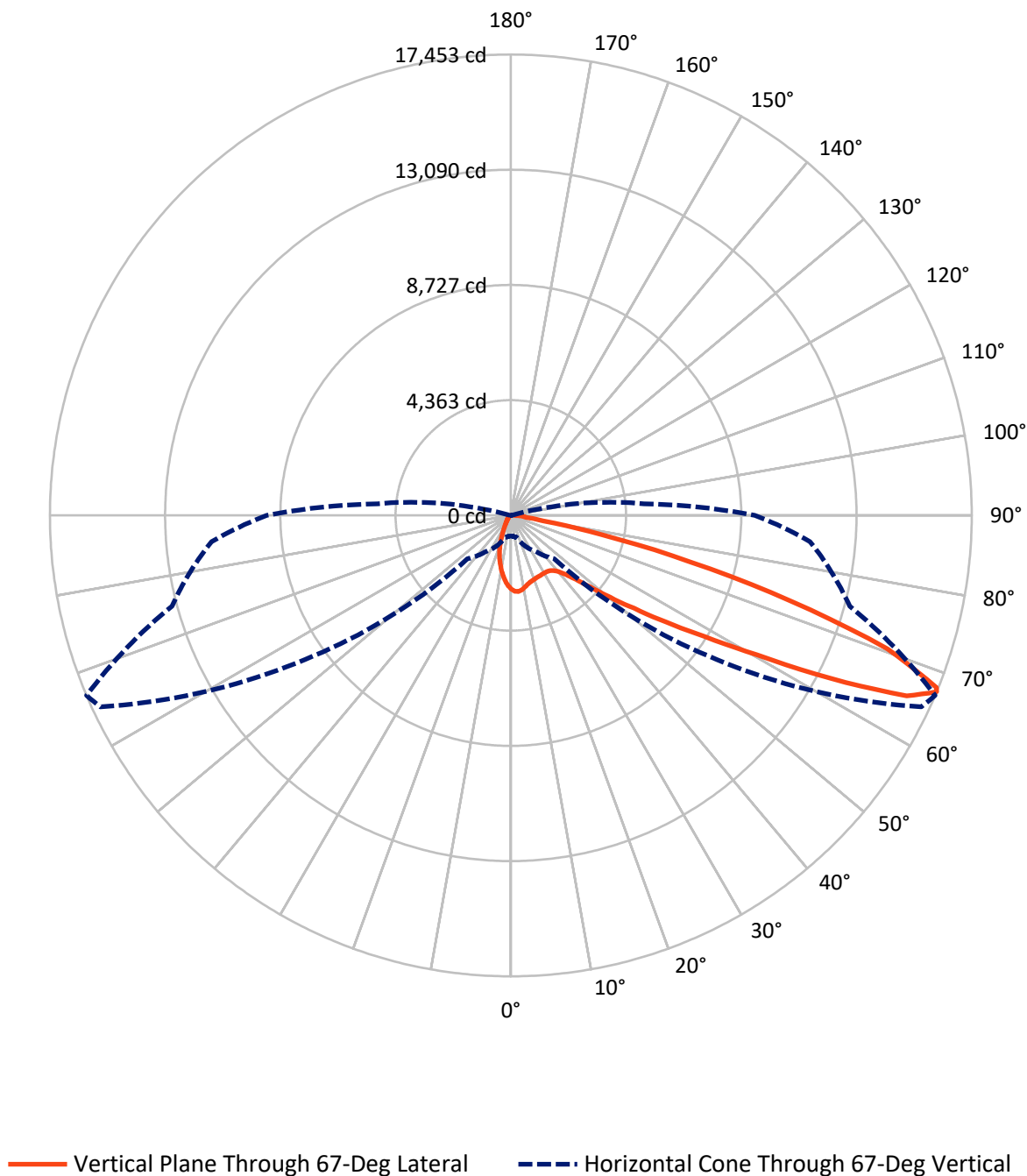


Based on 20 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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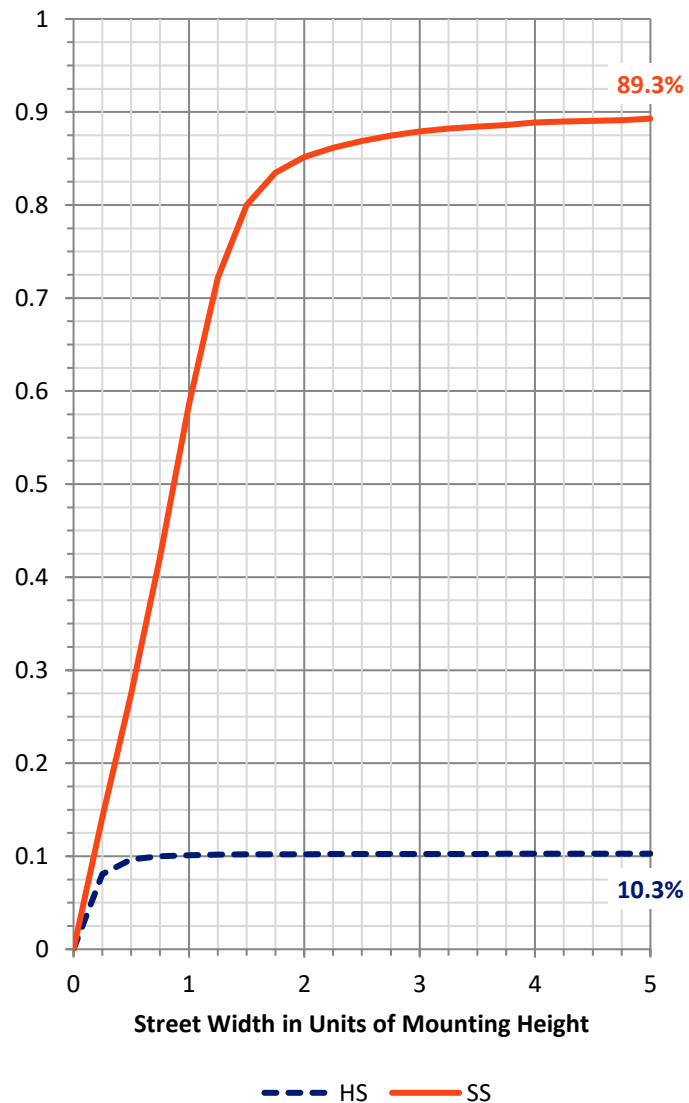
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1316.0	0.0	1316.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11358.1	0.0	11358.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	12674.1	0.0	12674.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.8
10°-20°	484.1	3.8
20°-30°	703.8	5.6
30°-40°	1097.9	8.7
40°-50°	1944.9	15.3
50°-60°	3077.7	24.3
60°-70°	3525.1	27.8
70°-80°	1462.2	11.5
80°-90°	151.0	1.2
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°	12674.1	100.0
0°-180°	12674.1	100.0

Coefficient of Utilization



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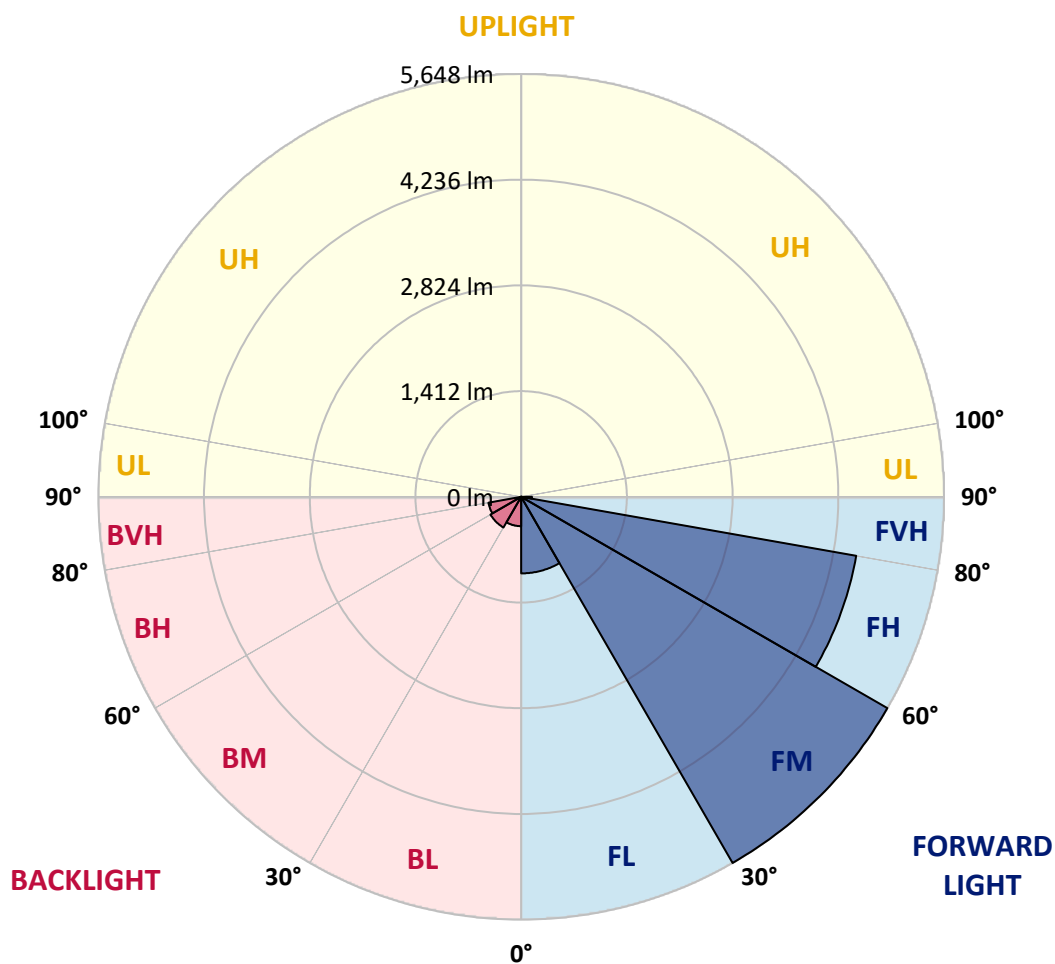
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.6	8.1			
FM	(30°-60°)	5647.6	44.6			
FH	(60°-80°)	4543.7	35.9			G2/5000
FVH	(80°-90°)	144.2	1.1			G2/225
BL	(0°-30°)	392.7	3.1	B1/500		
BM	(30°-60°)	473.0	3.7	B1/1000		
BH	(60°-80°)	443.5	3.5	B1/500		G1/500
BVH	(80°-90°)	6.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1
2.5°	2889.7	2895.6	2895.0	2899.3	2909.7	2910.4	2900.1	2880.1	2875.7	2849.8	2804.6
5°	2665.0	2682.0	2692.3	2734.4	2781.7	2838.7	2881.6	2897.1	2895.0	2876.5	2808.4
7.5°	2408.5	2425.4	2437.3	2486.8	2549.7	2647.3	2758.9	2850.6	2858.7	2878.7	2805.4
10°	2237.7	2240.7	2257.0	2304.3	2370.1	2469.8	2602.9	2763.2	2787.8	2860.9	2798.0
12.5°	2097.2	2099.4	2120.9	2172.0	2242.1	2342.6	2482.4	2668.0	2705.7	2838.7	2796.6
15°	1997.5	2005.6	2024.8	2078.0	2152.7	2252.5	2395.9	2597.7	2642.8	2830.6	2809.9
17.5°	1964.2	1973.0	1979.0	2017.4	2085.4	2183.0	2330.1	2551.9	2602.9	2835.1	2835.8
20°	1998.9	2005.6	1992.3	2001.8	2044.0	2131.2	2274.7	2512.8	2573.3	2840.2	2869.0
22.5°	2128.3	2131.2	2095.0	2052.9	2045.6	2093.5	2231.1	2481.6	2546.8	2854.3	2908.2
25°	2350.0	2344.9	2285.8	2194.8	2109.0	2086.9	2205.2	2462.4	2533.4	2869.0	2948.9
27.5°	2617.7	2625.1	2543.8	2411.5	2248.0	2131.2	2201.5	2454.3	2527.5	2879.4	2984.3
30°	2942.9	2953.3	2860.2	2693.8	2459.5	2240.7	2235.5	2452.9	2523.8	2872.8	2987.2
32.5°	3274.8	3287.4	3214.3	3042.8	2741.9	2424.0	2312.4	2469.0	2531.2	2849.8	2970.3
35°	3622.3	3640.1	3591.3	3444.2	3124.9	2688.7	2447.6	2518.7	2566.0	2847.7	2953.3
37.5°	4102.1	4118.3	4026.6	3870.7	3588.3	3043.5	2665.0	2611.8	2648.0	2883.1	2957.7
40°	4818.5	4816.2	4579.6	4340.9	4097.7	3494.4	2970.3	2780.3	2798.7	2990.3	3012.4
42.5°	5599.1	5595.3	5245.7	4882.7	4663.1	4049.5	3371.7	3071.6	3059.0	3187.6	3154.5
45°	6200.8	6200.1	5914.8	5505.9	5344.0	4686.9	3890.7	3476.7	3457.5	3508.5	3416.1
47.5°	6457.3	6461.8	6318.4	6030.8	6098.9	5548.8	4544.8	4063.7	4034.8	4014.0	3873.7
50°	6257.8	6266.6	6278.5	6222.4	6652.5	6707.2	5422.4	4890.9	4876.8	4784.5	4564.9
52.5°	5605.8	5650.8	5789.7	5968.0	6844.6	7819.0	6798.1	5918.5	5843.0	5744.8	5503.0
55°	4507.2	4556.7	4820.6	5253.0	6558.7	8549.4	8726.1	7243.2	7117.4	6824.0	6475.0
57.5°	2982.9	3059.8	3442.6	3992.7	5727.7	8667.0	10649.6	9081.6	8644.0	7840.5	7447.2
60°	1643.4	1717.2	2132.7	2631.0	4136.9	8085.9	11943.3	11475.4	10702.2	8976.7	8627.7
62.5°	1012.1	1051.9	1358.7	1822.2	2481.0	6382.0	12211.0	14483.4	13588.1	10439.7	10053.8
65°	805.8	822.8	972.9	1489.6	1778.6	3796.0	11346.7	16776.5	16477.8	12211.0	11330.5
67°	782.1	788.8	859.8	1278.9	1676.6	2327.1	9506.0	17149.9	17453.0	13282.8	11370.4
67.5°	787.3	794.7	861.9	1220.5	1673.7	2138.6	8871.8	17002.7	17385.7	13367.9	11193.7
70°	759.3	782.1	986.9	1219.8	1591.6	1777.1	5312.9	14731.8	15130.2	12420.9	9497.9
72.5°	269.1	270.5	426.5	986.9	1730.5	1796.3	2668.0	10799.7	11094.6	9501.6	6847.8
75°	159.6	136.0	141.9	280.9	1653.7	1744.7	1539.1	6901.0	7011.0	5444.6	3467.8
77.5°	110.2	96.1	99.1	124.2	629.9	1720.3	1222.7	3598.7	3481.1	1909.6	738.5
80°	62.9	55.4	59.1	108.7	229.1	1604.9	1153.2	1459.2	1244.1	323.9	204.0
82.5°	33.3	28.1	34.0	89.5	159.6	1000.2	1155.4	705.3	558.9	109.4	139.0
85°	11.8	9.7	16.3	61.4	106.4	306.8	1071.2	592.8	465.8	53.2	105.8
87.5°	2.1	2.1	6.7	25.1	42.8	93.9	633.4	352.0	235.8	31.8	72.4
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°	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1	2795.1
2.5°	2786.2	2754.4	2711.6	2659.1	2597.0	2542.3	2501.6	2459.5	2450.5	2435.8	2433.6
5°	2767.7	2713.0	2606.6	2484.7	2354.5	2237.0	2141.6	2056.6	2018.9	1986.4	1982.6
7.5°	2740.4	2658.4	2477.2	2280.6	2077.2	1892.5	1735.8	1624.9	1522.8	1474.0	1466.7
10°	2708.6	2591.1	2331.6	2058.8	1777.8	1516.9	1284.2	1088.9	970.7	900.4	891.5
12.5°	2679.0	2525.3	2183.0	1828.9	1455.6	1106.7	807.2	620.9	496.8	446.6	440.7
15°	2665.0	2472.1	2044.0	1593.9	1118.5	704.5	441.3	341.6	300.9	289.1	288.3
17.5°	2663.5	2426.9	1908.0	1350.7	783.6	409.5	287.6	262.4	254.3	251.3	251.3
20°	2662.7	2384.0	1771.9	1098.5	497.5	272.8	239.5	233.6	227.7	224.0	224.0
22.5°	2671.0	2345.7	1630.0	841.3	313.5	221.0	210.7	204.8	197.4	192.2	191.4
25°	2679.0	2316.1	1485.2	598.7	226.9	192.2	181.8	173.7	163.4	156.7	156.0
27.5°	2680.5	2279.1	1329.9	400.7	190.0	167.8	154.5	141.9	130.1	123.5	122.7
30°	2658.4	2217.0	1157.7	270.5	167.8	145.7	128.0	114.6	103.5	98.4	98.4
32.5°	2614.7	2140.2	968.4	204.0	149.3	124.9	105.8	93.2	85.8	83.6	82.8
35°	2575.6	2057.4	774.0	172.9	133.9	105.8	86.6	78.3	74.0	73.2	72.4
37.5°	2552.7	1990.8	591.4	156.7	119.0	88.7	73.2	67.3	65.0	63.6	64.4
40°	2570.4	1935.3	436.9	143.4	104.3	74.0	62.1	59.1	57.0	56.2	56.2
42.5°	2648.0	1925.7	324.5	131.5	90.1	61.4	54.0	51.8	50.3	49.5	50.3
45°	2852.0	1984.9	252.1	120.5	76.2	51.8	45.8	45.2	44.4	44.4	44.4
47.5°	3158.8	2106.8	210.0	107.9	63.6	44.4	39.9	39.3	38.5	39.3	39.3
50°	3678.5	2330.1	187.8	95.4	52.5	37.7	34.0	34.0	34.0	34.0	34.8
52.5°	4468.8	2769.1	172.9	82.8	42.8	31.8	28.9	28.9	29.6	29.6	30.3
55°	5349.3	3351.7	159.6	70.3	36.3	26.7	23.7	24.4	25.1	25.9	25.9
57.5°	6304.4	3997.1	148.6	57.7	31.0	21.5	20.0	20.6	21.5	23.0	23.0
60°	7456.8	4695.8	132.3	45.2	25.9	17.1	15.6	17.1	19.2	20.6	21.5
62.5°	8722.3	5371.4	111.7	35.5	21.5	13.3	12.6	15.6	18.5	20.0	20.6
65°	9587.3	5583.5	85.8	28.9	16.3	9.7	10.4	14.1	17.7	20.0	20.0
67°	9236.9	5062.4	70.3	24.4	13.3	7.4	9.7	14.1	17.7	19.2	20.0
67.5°	8993.6	4858.3	67.3	23.7	12.6	7.4	9.7	14.1	17.7	20.0	20.0
70°	7317.8	3649.7	56.2	17.7	10.4	6.7	8.0	13.3	17.1	19.2	19.2
72.5°	5084.6	2250.3	50.3	12.6	8.8	5.9	7.4	12.6	16.3	18.5	19.2
75°	2417.4	814.6	42.8	9.7	8.0	5.1	6.7	12.6	16.3	18.5	18.5
77.5°	493.1	189.2	34.8	8.0	6.7	5.1	5.9	11.8	15.6	17.7	17.7
80°	161.9	73.2	25.9	7.4	6.7	5.1	5.9	11.0	15.6	17.1	17.7
82.5°	116.8	36.9	17.1	7.4	6.7	5.1	5.1	11.0	14.7	17.1	17.1
85°	89.5	25.9	11.0	7.4	6.7	5.1	5.1	10.4	14.1	16.3	16.3
87.5°	59.1	10.4	8.8	7.4	6.7	5.1	5.1	10.4	13.3	15.6	16.3
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)