

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: P452458

Luminaire Tested: **GALN-SA3B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 11047 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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: 24 FT

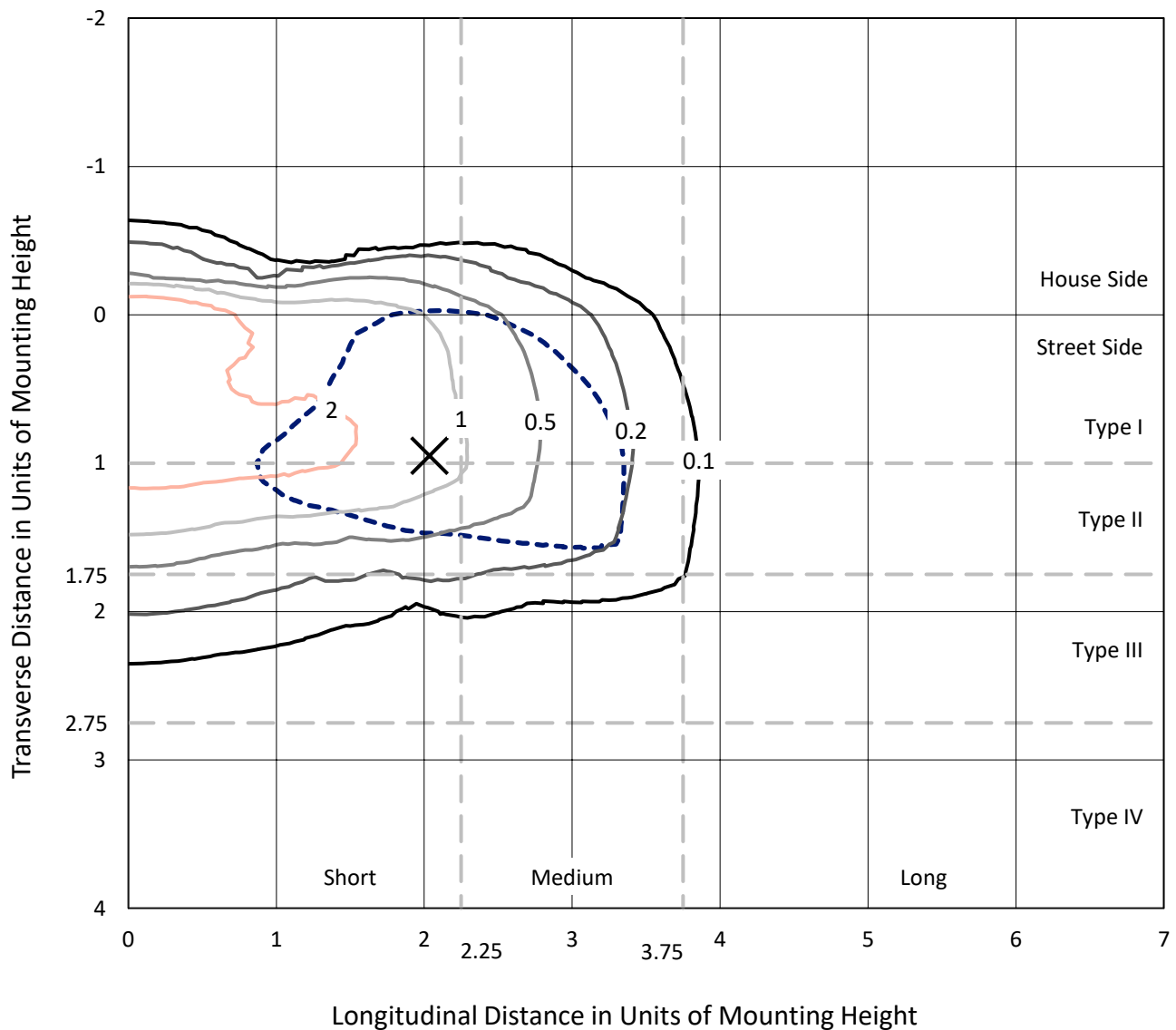


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Iso-Footcandle Lines of Horizontal Illumination

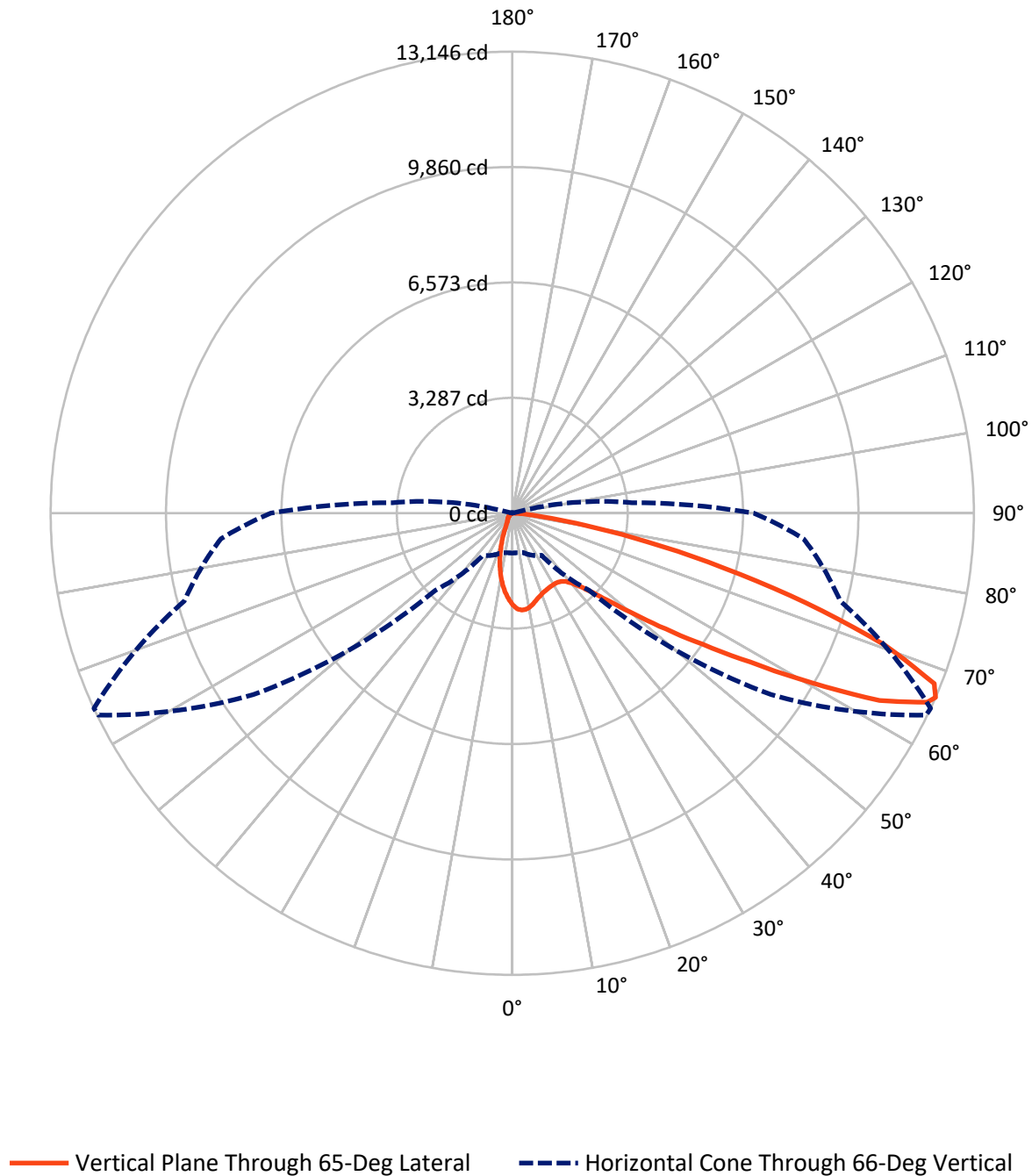
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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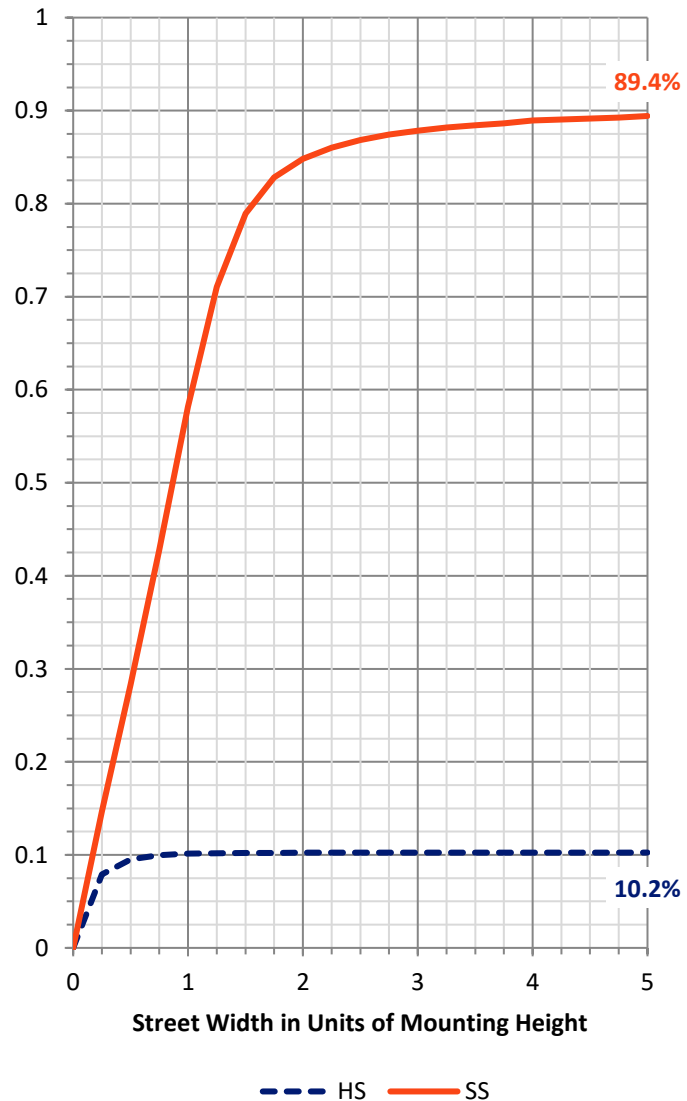
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1142.4	0.0	1142.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9904.6	0.0	9904.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	11047.0	0.0	11047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	1.9
10°-20°	466.8	4.2
20°-30°	668.7	6.1
30°-40°	976.7	8.8
40°-50°	1637.8	14.8
50°-60°	2733.2	24.7
60°-70°	2901.2	26.3
70°-80°	1313.9	11.9
80°-90°	134.4	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°	11047.0	100.0
0°-180°	11047.0	100.0

Coefficient of Utilization



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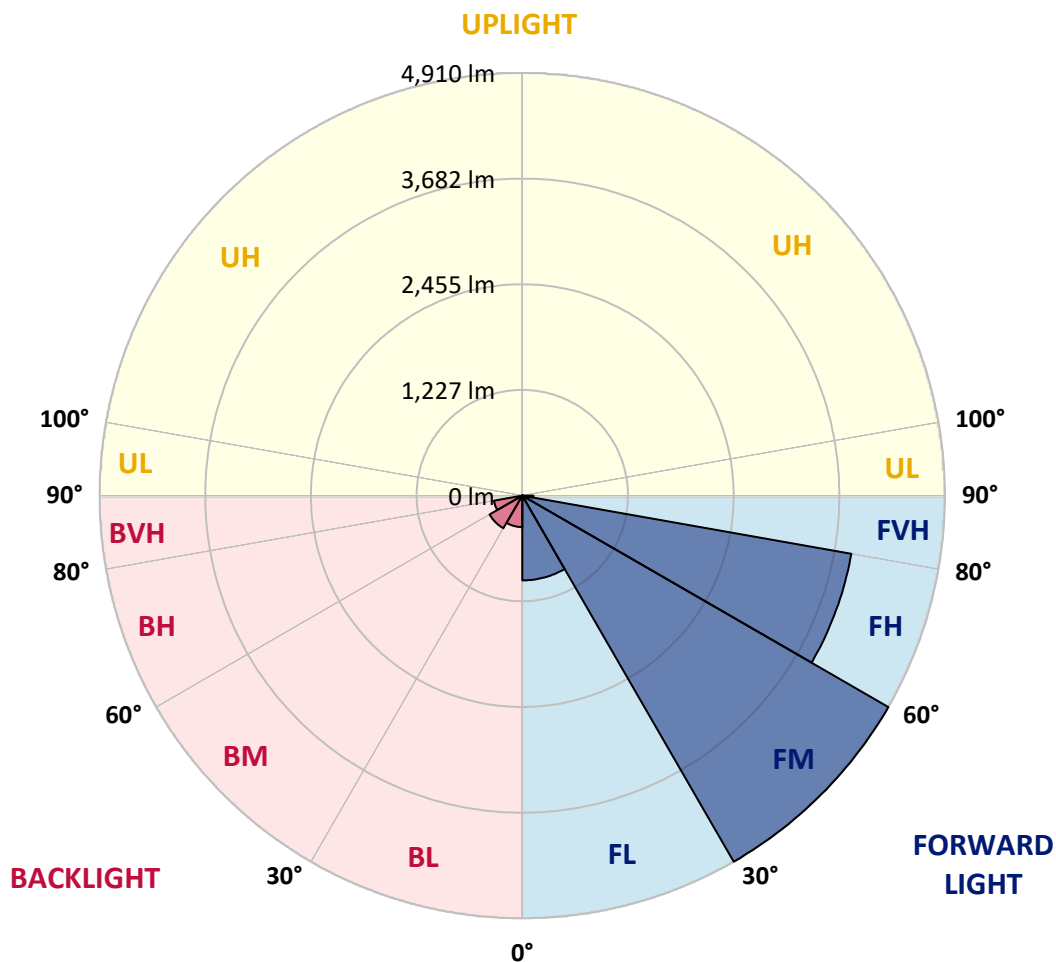
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	984.3	8.9			
FM	(30°-60°)	4909.5	44.4			
FH	(60°-80°)	3880.6	35.1			G2/5000
FVH	(80°-90°)	130.2	1.2			G2/225
BL	(0°-30°)	365.4	3.3	B1/500		
BM	(30°-60°)	438.1	4.0	B1/1000		
BH	(60°-80°)	334.6	3.0	B1/500		G1/500
BVH	(80°-90°)	4.3	0.0			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°	64°	65°	75°	85°
0°	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7
2.5°	2760.7	2763.7	2767.4	2772.6	2776.3	2765.1	2749.5	2731.6	2727.8	2689.8	2643.5
5°	2612.9	2617.4	2650.2	2668.1	2708.4	2745.0	2768.1	2771.1	2769.6	2733.8	2659.9
7.5°	2402.5	2415.2	2447.3	2478.6	2554.0	2623.4	2705.5	2762.9	2766.6	2756.9	2665.2
10°	2231.7	2239.9	2256.3	2318.2	2380.9	2486.8	2601.7	2709.9	2718.9	2757.7	2660.7
12.5°	2098.1	2110.0	2130.2	2177.9	2253.3	2353.3	2483.9	2629.4	2648.0	2743.5	2648.0
15°	2004.8	2010.8	2031.0	2078.0	2151.1	2243.6	2375.7	2545.0	2561.5	2724.9	2645.8
17.5°	1960.8	1967.5	1981.7	2019.0	2079.5	2165.3	2294.3	2477.1	2498.0	2712.9	2654.0
20°	1972.8	1978.7	1979.5	1998.9	2039.9	2112.3	2234.6	2413.7	2440.6	2705.5	2667.4
22.5°	2040.7	2041.4	2032.4	2023.5	2037.7	2089.9	2198.1	2373.4	2401.0	2704.0	2683.1
25°	2142.1	2144.4	2129.4	2098.1	2069.8	2096.6	2189.9	2347.3	2371.9	2700.2	2692.8
27.5°	2282.4	2281.7	2277.2	2225.0	2144.4	2126.5	2196.6	2333.1	2354.0	2689.8	2696.5
30°	2478.6	2472.7	2463.0	2404.0	2280.9	2198.8	2225.0	2324.2	2343.6	2674.9	2686.8
32.5°	2671.9	2694.3	2692.8	2636.8	2483.1	2327.9	2283.9	2336.1	2350.3	2665.2	2672.6
35°	2897.2	2896.5	2953.9	2933.0	2753.2	2492.8	2384.6	2375.7	2386.9	2671.9	2665.9
37.5°	3106.1	3125.5	3215.1	3236.7	3072.6	2725.6	2527.1	2460.7	2464.5	2717.4	2682.3
40°	3366.5	3403.8	3537.4	3609.8	3465.0	3071.1	2737.5	2616.7	2617.4	2829.3	2744.3
42.5°	3702.3	3761.2	3885.8	4006.7	3929.1	3479.9	3053.2	2863.6	2862.1	3026.3	2886.0
45°	4110.4	4151.4	4293.2	4485.0	4435.7	4050.7	3512.8	3246.4	3227.0	3349.4	3137.5
47.5°	4462.6	4518.5	4662.5	4881.2	5105.0	4747.6	4061.9	3772.4	3759.7	3863.4	3568.7
50°	4616.3	4665.5	4817.0	5123.7	5666.1	5662.4	4879.7	4540.2	4518.5	4574.5	4235.8
52.5°	4447.7	4493.9	4646.9	5028.9	5930.2	6777.1	6064.5	5503.4	5477.3	5405.7	5032.6
55°	3870.2	3908.2	4134.3	4573.0	5828.7	7520.2	7697.0	6693.5	6592.0	6313.7	5934.7
57.5°	3081.5	3062.1	3202.4	3712.0	5233.3	7769.4	9372.8	8176.1	7994.7	7098.7	6698.0
60°	2135.4	2195.1	2251.8	2587.6	3935.1	7337.4	10415.2	10039.9	9801.1	7870.9	7429.2
62.5°	1569.9	1609.4	1646.7	1801.9	2474.2	5858.6	10599.5	11954.4	11742.5	8690.9	8126.8
65°	1241.6	1244.5	1259.5	1412.4	1630.3	3809.7	9713.8	13034.1	12979.6	9480.3	8409.6
66°	1131.1	1131.9	1155.0	1319.2	1463.2	3102.4	9004.3	13116.2	13146.0	9669.8	8326.8
67.5°	988.6	985.6	1019.2	1185.6	1332.6	2236.9	7734.4	12783.4	12960.2	9815.3	8029.1
70°	766.3	762.5	803.6	994.6	1227.4	1492.3	5140.8	10976.3	11261.3	9517.6	7103.9
72.5°	510.4	513.3	583.5	784.9	1171.4	1313.9	3092.7	8349.9	8752.8	7859.7	5588.5
75°	297.7	302.9	382.8	583.5	1017.0	1252.7	1750.4	5954.1	6211.5	5427.3	3481.4
77.5°	155.9	158.2	214.1	385.0	779.7	1163.2	1166.2	3803.8	3924.6	2637.6	1378.1
80°	82.8	80.6	114.9	232.0	536.5	1021.4	946.1	2013.8	2093.6	783.4	348.4
82.5°	31.3	34.3	61.2	152.2	317.1	733.4	814.8	890.1	862.5	172.4	146.2
85°	6.0	7.5	26.1	90.3	159.7	306.7	600.6	436.5	404.4	64.9	84.3
87.5°	0.7	1.5	7.5	21.6	23.1	103.7	177.6	120.9	104.5	23.9	35.1
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°	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7
2.5°	2621.1	2601.0	2533.8	2467.4	2399.5	2338.4	2296.6	2228.7	2211.5	2186.9	2172.7
5°	2615.9	2568.9	2439.8	2298.8	2167.5	2025.7	1917.5	1813.1	1757.1	1728.8	1718.3
7.5°	2601.0	2526.4	2324.9	2104.1	1893.7	1681.8	1497.5	1357.2	1266.9	1205.0	1163.2
10°	2571.2	2468.2	2191.4	1887.7	1569.9	1290.1	1056.5	878.9	741.7	698.4	699.9
12.5°	2540.6	2403.3	2042.1	1647.4	1253.5	900.6	652.9	512.6	446.9	425.3	420.8
15°	2512.2	2341.3	1895.9	1414.7	933.4	583.5	420.8	371.6	353.7	349.9	349.2
17.5°	2497.3	2283.9	1740.0	1148.3	651.4	396.2	337.2	323.8	318.6	314.9	313.4
20°	2484.6	2233.9	1590.7	899.1	445.4	324.6	302.2	289.5	280.5	276.8	274.6
22.5°	2475.6	2182.4	1436.3	696.1	341.0	288.0	267.9	251.4	238.8	234.3	231.3
25°	2462.2	2125.7	1280.4	508.9	287.3	255.9	232.8	213.4	197.0	188.8	187.3
27.5°	2442.8	2061.5	1109.5	376.8	256.7	227.6	199.2	175.3	158.9	150.0	150.7
30°	2411.5	1994.4	938.6	299.2	232.0	198.5	167.9	144.7	129.1	122.4	121.6
32.5°	2374.2	1913.1	781.9	256.7	209.7	172.4	140.3	120.1	108.2	103.0	102.2
35°	2339.1	1831.0	622.3	230.6	186.5	148.5	117.9	100.7	91.8	87.3	88.0
37.5°	2319.7	1757.9	485.0	209.7	167.9	127.6	101.5	86.6	78.3	74.6	73.9
40°	2332.4	1698.2	385.7	191.0	147.0	109.7	87.3	74.6	66.4	61.2	61.2
42.5°	2392.1	1672.1	311.1	173.1	127.6	94.8	76.1	64.2	55.2	50.0	50.7
45°	2574.1	1699.7	260.4	156.7	109.7	82.1	65.7	53.0	44.8	41.0	40.3
47.5°	2876.3	1803.4	225.3	139.5	94.0	70.1	55.2	44.0	35.8	32.8	32.1
50°	3404.6	2017.5	199.2	122.4	79.8	59.7	45.5	35.1	28.4	25.4	25.4
52.5°	4131.3	2484.6	180.6	103.0	67.2	50.7	37.3	28.4	22.4	20.1	19.4
55°	4890.9	2977.0	170.9	86.6	56.0	41.8	29.8	22.4	17.2	14.9	14.2
57.5°	5621.3	3363.5	159.7	70.1	44.8	32.1	23.1	17.2	11.9	10.4	9.7
60°	6321.9	3676.2	135.8	56.0	35.1	23.1	17.2	11.9	8.2	6.7	6.7
62.5°	6948.7	3858.2	106.7	44.8	26.9	16.4	11.2	9.0	6.0	4.5	4.5
65°	7021.8	3621.7	80.6	34.3	19.4	10.4	6.7	6.7	4.5	3.0	3.0
66°	6874.8	3421.0	70.9	31.3	17.2	9.0	6.0	5.2	3.7	2.2	2.2
67.5°	6546.5	3078.5	61.2	26.9	14.2	6.7	4.5	4.5	3.0	1.5	1.5
70°	5656.4	2514.4	48.5	20.1	10.4	5.2	3.0	3.0	2.2	1.5	1.5
72.5°	4311.1	1877.3	39.5	14.9	7.5	3.7	2.2	2.2	2.2	1.5	1.5
75°	2600.3	1011.0	30.6	11.2	6.7	3.0	1.5	2.2	3.0	2.2	1.5
77.5°	958.0	344.0	23.9	9.0	5.2	3.0	1.5	1.5	3.0	2.2	2.2
80°	235.0	89.5	17.2	7.5	5.2	3.0	1.5	1.5	3.0	3.0	3.0
82.5°	108.9	38.1	11.9	6.7	5.2	3.0	1.5	1.5	2.2	3.0	3.0
85°	62.7	17.9	9.7	7.5	5.2	3.0	1.5	1.5	2.2	3.0	3.0
87.5°	25.4	9.0	9.0	7.5	6.0	3.7	1.5	1.5	1.5	2.2	2.2
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)