

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: P522747

Luminaire Tested: **GALN-SA4C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22117 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 213
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

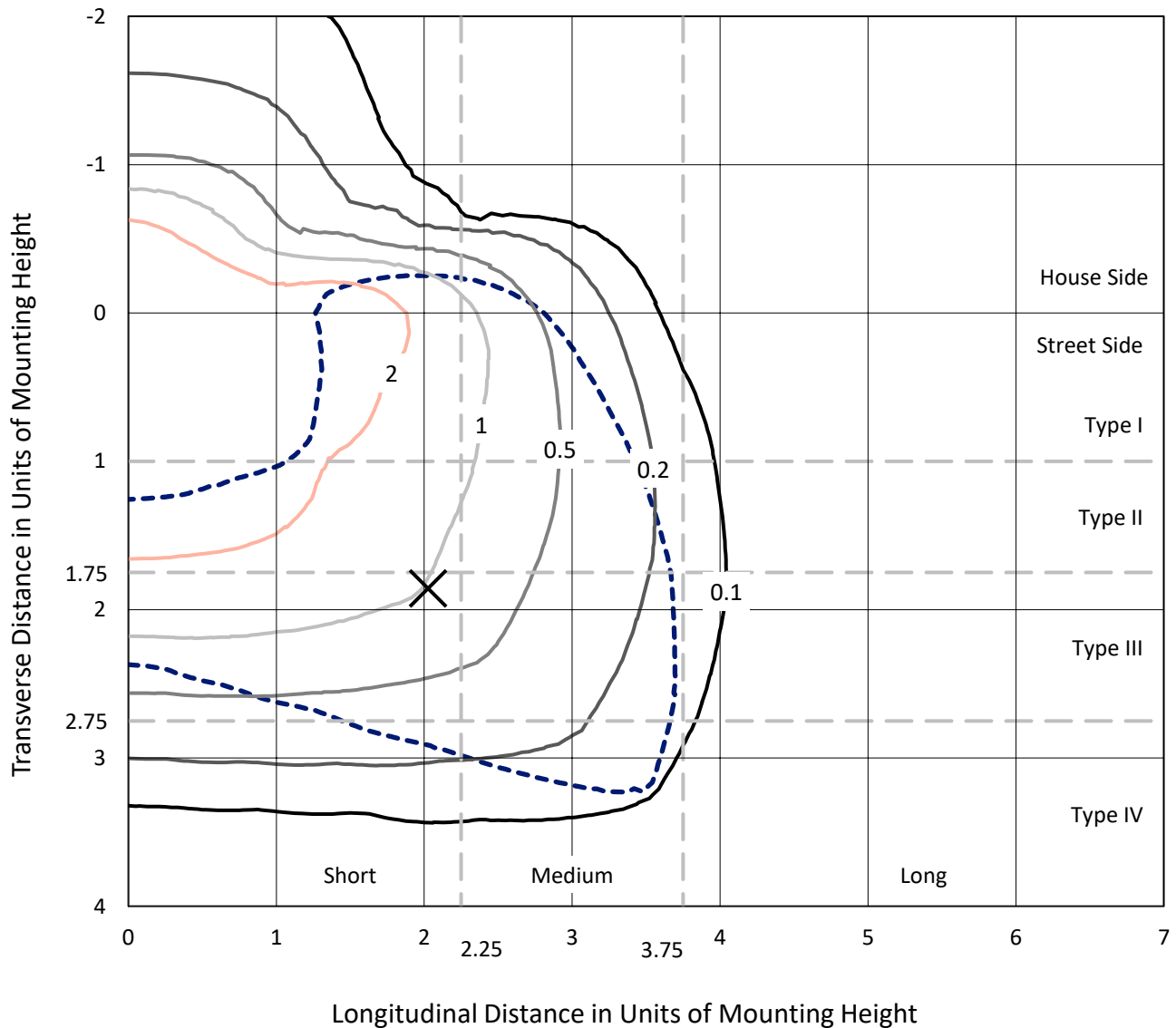


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

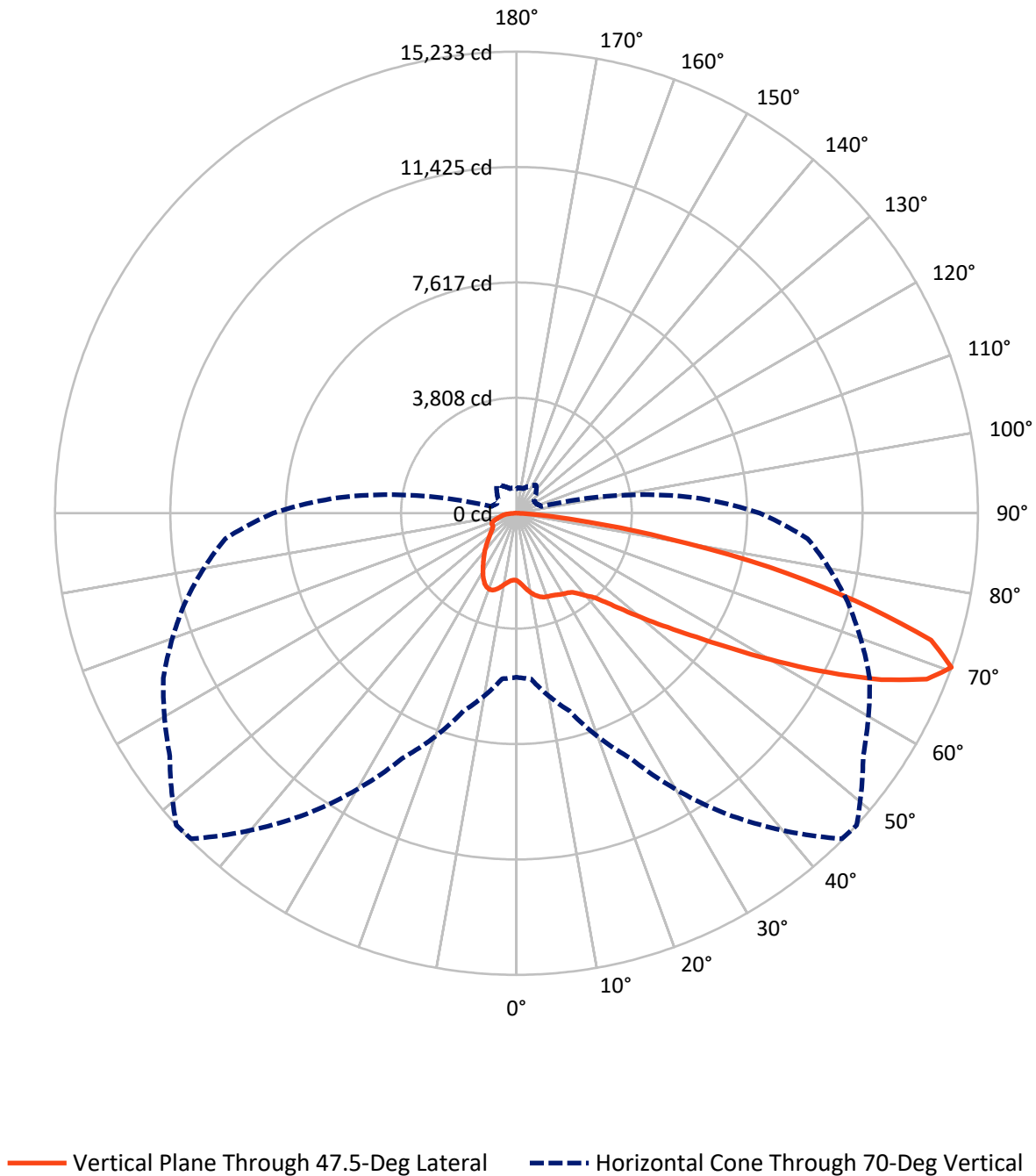


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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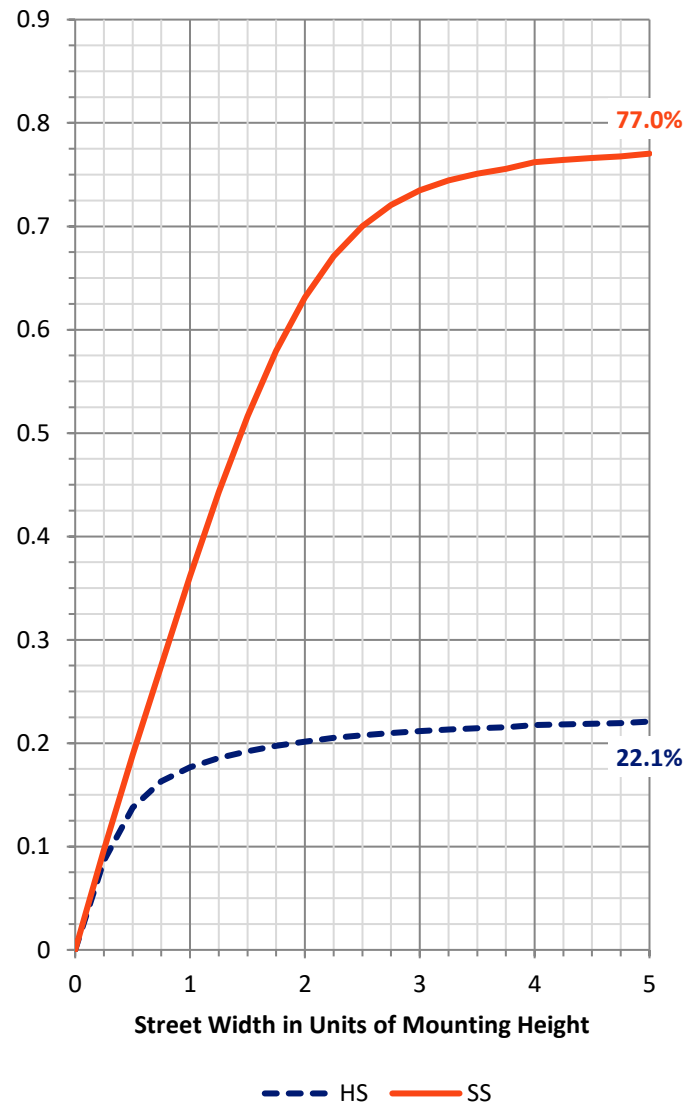
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5007.7	0.0	5007.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17109.3	0.0	17109.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	22117.0	0.0	22117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	1.0
10°-20°	765.1	3.5
20°-30°	1272.4	5.8
30°-40°	1803.4	8.2
40°-50°	2662.2	12.0
50°-60°	4611.0	20.8
60°-70°	6513.2	29.4
70°-80°	3744.2	16.9
80°-90°	516.6	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°	22117.0	100.0
0°-180°	22117.0	100.0

Coefficient of Utilization



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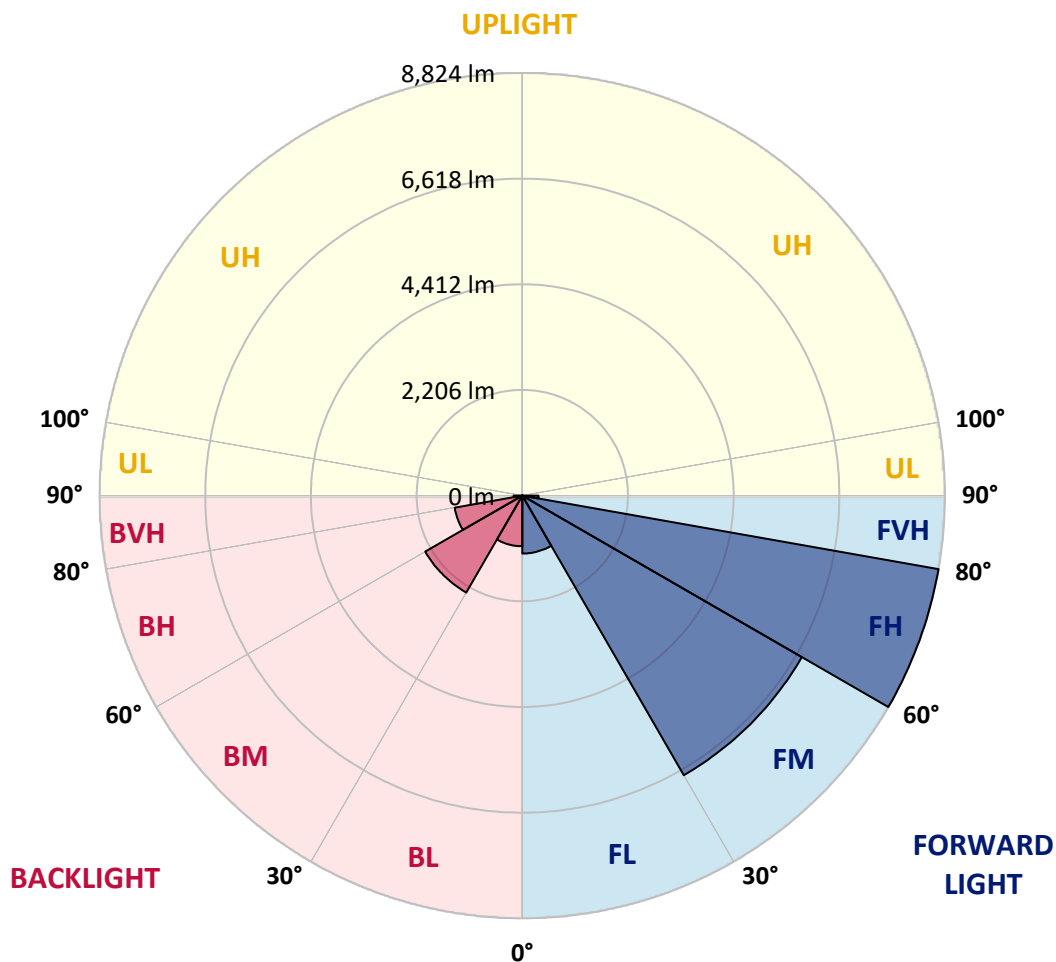
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1209.4	5.5			
FM	(30°-60°)	6738.6	30.5			
FH	(60°-80°)	8823.8	39.9			G4/12000
FVH	(80°-90°)	337.5	1.5			G3/500
BL	(0°-30°)	1056.9	4.8	B3/2500		
BM	(30°-60°)	2338.0	10.6	B2/2500		
BH	(60°-80°)	1433.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	179.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3
2.5°	2363.5	2355.2	2354.0	2336.3	2326.8	2309.0	2301.9	2285.4	2265.3	2245.1	2226.2
5°	2549.3	2549.3	2541.0	2516.2	2477.1	2436.9	2419.1	2387.2	2330.3	2284.2	2245.1
7.5°	2739.8	2742.2	2725.6	2689.0	2633.3	2568.2	2551.7	2504.3	2423.8	2356.4	2298.4
10°	2904.4	2904.4	2881.9	2832.2	2762.3	2691.3	2674.8	2621.5	2531.5	2447.5	2371.8
12.5°	3029.8	3029.8	3000.2	2935.1	2859.4	2795.5	2776.5	2725.6	2641.6	2548.1	2452.3
15°	3111.5	3105.6	3072.4	2999.0	2925.7	2870.0	2857.0	2814.4	2737.5	2642.8	2535.1
17.5°	3115.0	3112.7	3080.7	3019.2	2955.2	2917.4	2909.1	2880.7	2820.3	2730.4	2616.8
20°	3046.4	3051.1	3029.8	2986.0	2955.2	2938.7	2935.1	2925.7	2883.1	2799.0	2685.4
22.5°	2973.0	2981.3	2961.2	2937.5	2935.1	2951.7	2954.1	2956.4	2929.2	2847.5	2743.4
25°	2955.2	2961.2	2941.0	2919.7	2932.8	2976.5	2986.0	2995.5	2974.2	2905.5	2812.0
27.5°	3045.2	3040.5	3001.4	2955.2	2963.5	3022.7	3035.7	3046.4	3035.7	2976.5	2897.3
30°	3299.6	3284.3	3206.2	3071.2	3028.6	3070.0	3083.1	3112.7	3112.7	3068.9	2989.6
32.5°	3725.7	3696.1	3552.9	3287.8	3139.9	3115.0	3128.0	3176.6	3201.4	3167.1	3080.7
35°	4242.9	4212.1	4007.4	3651.2	3343.4	3205.0	3201.4	3255.9	3322.1	3245.2	3132.8
37.5°	4762.5	4730.5	4484.4	4084.3	3640.5	3394.3	3373.0	3392.0	3420.4	3279.5	3205.0
40°	5282.0	5244.2	5028.8	4568.4	4003.8	3645.2	3589.6	3504.4	3492.6	3392.0	3344.6
42.5°	5796.9	5762.6	5653.7	5111.6	4439.4	3890.2	3805.0	3658.3	3703.2	3642.9	3601.4
45°	6316.4	6318.8	6202.8	5721.1	4964.9	4342.3	4227.5	3997.9	4104.4	4082.0	4105.6
47.5°	6776.8	6770.9	6729.5	6312.9	5617.0	4924.6	4776.7	4510.4	4692.7	4775.5	4956.6
50°	7223.0	7219.5	7221.8	6983.9	6374.4	5617.0	5453.7	5174.3	5585.0	5872.6	6196.9
52.5°	7862.1	7882.2	7739.0	7676.3	7295.2	6434.8	6254.9	5966.1	6639.5	7092.8	7726.0
55°	8503.6	8487.0	8374.6	8439.7	8258.6	7402.9	7214.7	6985.1	7813.6	8309.5	9261.0
57.5°	8881.1	8887.0	9001.8	9320.2	9448.0	8610.1	8439.7	8262.1	9133.2	9484.7	10626.8
60°	9220.8	9248.0	9578.2	10179.4	10526.2	10093.0	9941.6	9768.8	10344.0	10483.6	11812.7
62.5°	9327.3	9411.3	9987.7	10887.2	11577.2	11766.5	11578.4	11197.3	11496.7	11442.3	12616.3
65°	8795.9	8910.7	9943.9	11152.3	12515.7	13354.8	13235.3	12527.5	12479.0	12151.2	12747.7
67.5°	7397.0	7511.8	8838.5	10596.0	12903.9	14730.1	14610.5	13498.0	13075.5	12217.5	11753.5
70°	5412.2	5484.4	6753.2	8921.4	12124.0	15191.6	15233.1	13971.4	12862.5	11316.8	9650.4
72.5°	3118.6	3278.3	4167.2	6276.2	9904.9	14024.7	14312.3	12986.7	11515.6	9440.9	6747.2
75°	1340.9	1344.5	1926.8	3461.8	6708.2	11273.0	11551.1	10765.3	9043.3	6528.3	3602.6
77.5°	637.9	649.8	847.4	1545.7	3692.6	7788.7	8539.1	7605.3	5783.9	3136.3	1361.0
80°	414.2	422.5	518.4	766.9	1810.8	4516.3	5039.4	4387.3	2551.7	1120.8	587.0
82.5°	250.9	253.3	346.8	468.7	996.5	2045.1	2410.8	1904.3	1088.8	671.1	345.6
85°	152.7	153.9	210.7	290.0	604.8	706.6	725.5	719.6	639.1	439.1	184.6
87.5°	73.4	75.7	108.9	137.3	237.9	219.0	207.1	240.3	301.8	236.7	79.3
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°	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3	2220.3
2.5°	2217.9	2214.4	2206.1	2202.5	2200.2	2201.3	2200.2	2200.2	2201.3	2201.3	2201.3
5°	2228.6	2222.6	2209.6	2209.6	2216.7	2233.3	2248.7	2260.5	2273.5	2272.4	2272.4
7.5°	2274.7	2264.1	2248.7	2253.4	2271.2	2297.2	2324.4	2350.5	2376.5	2378.9	2377.7
10°	2342.2	2331.5	2315.0	2320.9	2349.3	2388.3	2422.7	2460.5	2488.9	2497.2	2494.9
12.5°	2419.1	2397.8	2383.6	2400.2	2445.1	2497.2	2530.4	2558.8	2578.9	2590.7	2586.0
15°	2497.2	2477.1	2460.5	2494.9	2549.3	2597.8	2614.4	2619.1	2622.7	2634.5	2632.1
17.5°	2573.0	2545.7	2539.8	2584.8	2636.9	2658.2	2648.7	2628.6	2613.2	2622.7	2621.5
20°	2640.4	2619.1	2616.8	2661.7	2681.9	2661.7	2621.5	2586.0	2558.8	2561.1	2560.0
22.5°	2704.3	2687.8	2690.1	2709.1	2677.1	2608.5	2542.2	2493.7	2464.1	2470.0	2473.6
25°	2775.4	2758.8	2764.7	2733.9	2628.6	2509.1	2413.2	2371.8	2359.9	2371.8	2380.1
27.5°	2867.7	2857.0	2853.5	2735.1	2542.2	2362.3	2253.4	2238.0	2248.7	2274.7	2287.7
30°	2967.1	2967.1	2948.1	2715.0	2423.8	2186.0	2091.3	2093.6	2130.3	2167.0	2180.0
32.5°	3062.9	3083.1	3023.9	2660.5	2271.2	2014.3	1942.2	1944.5	1976.5	2021.4	2033.3
35°	3142.2	3200.2	3089.0	2561.1	2091.3	1870.0	1815.5	1783.6	1784.7	1819.1	1828.5
37.5°	3251.1	3358.8	3126.9	2413.2	1899.5	1746.9	1685.3	1629.7	1593.0	1578.8	1578.8
40°	3440.5	3599.1	3136.3	2194.2	1718.5	1629.7	1542.1	1475.8	1404.8	1340.9	1329.1
42.5°	3761.2	3961.2	3117.4	1942.2	1555.1	1500.7	1415.5	1333.8	1235.6	1145.6	1138.5
45°	4329.3	4432.3	3066.5	1680.6	1409.6	1376.4	1293.6	1204.8	1100.7	1020.2	1014.3
47.5°	5239.4	5093.9	2999.0	1448.6	1277.0	1267.5	1203.6	1100.7	996.5	940.9	935.0
50°	6568.5	6135.4	2989.6	1280.6	1170.5	1175.2	1123.2	1028.5	937.3	891.2	884.1
52.5°	8168.6	7393.4	3052.3	1162.2	1077.0	1094.8	1068.7	981.1	900.7	861.6	854.5
55°	9721.4	8524.9	3090.2	1069.9	989.4	1022.6	1026.1	952.7	879.4	840.3	835.6
57.5°	10981.9	9377.0	2922.1	985.9	913.7	964.6	990.6	936.2	868.7	839.1	834.4
60°	11858.9	9779.4	2444.0	911.3	858.1	918.4	977.6	937.3	894.7	898.3	900.7
62.5°	12138.2	9600.7	1833.3	855.7	820.2	903.0	998.9	985.9	942.1	969.3	974.0
65°	11675.4	8862.2	1329.1	811.9	787.0	913.7	1062.8	1021.4	925.5	945.6	945.6
67.5°	10126.2	7634.9	1034.4	771.7	749.2	933.8	1126.7	1017.8	886.5	910.1	888.8
70°	8032.5	5905.8	861.6	726.7	708.9	904.2	1132.6	981.1	840.3	845.0	804.8
72.5°	5330.6	3883.1	740.9	684.1	647.4	813.1	1084.1	933.8	795.3	768.1	727.9
75°	2612.0	1936.2	646.2	630.8	566.9	707.7	1017.8	888.8	746.8	704.2	681.7
77.5°	1011.9	823.7	551.5	563.4	493.5	623.7	930.2	824.9	682.9	624.9	607.1
80°	491.2	467.5	452.1	469.9	405.9	531.4	849.8	769.3	623.7	559.8	533.8
82.5°	305.3	288.8	346.8	365.7	312.4	485.2	806.0	721.9	549.2	463.9	442.6
85°	155.0	165.7	232.0	249.7	223.7	385.8	664.0	542.1	396.5	329.0	331.4
87.5°	59.2	79.3	121.9	131.4	119.5	203.6	365.7	316.0	254.5	172.8	159.8
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)