

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: STREETWORKS

Report Number: P323696

Luminaire Tested: **GAN-SA2D-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10778 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

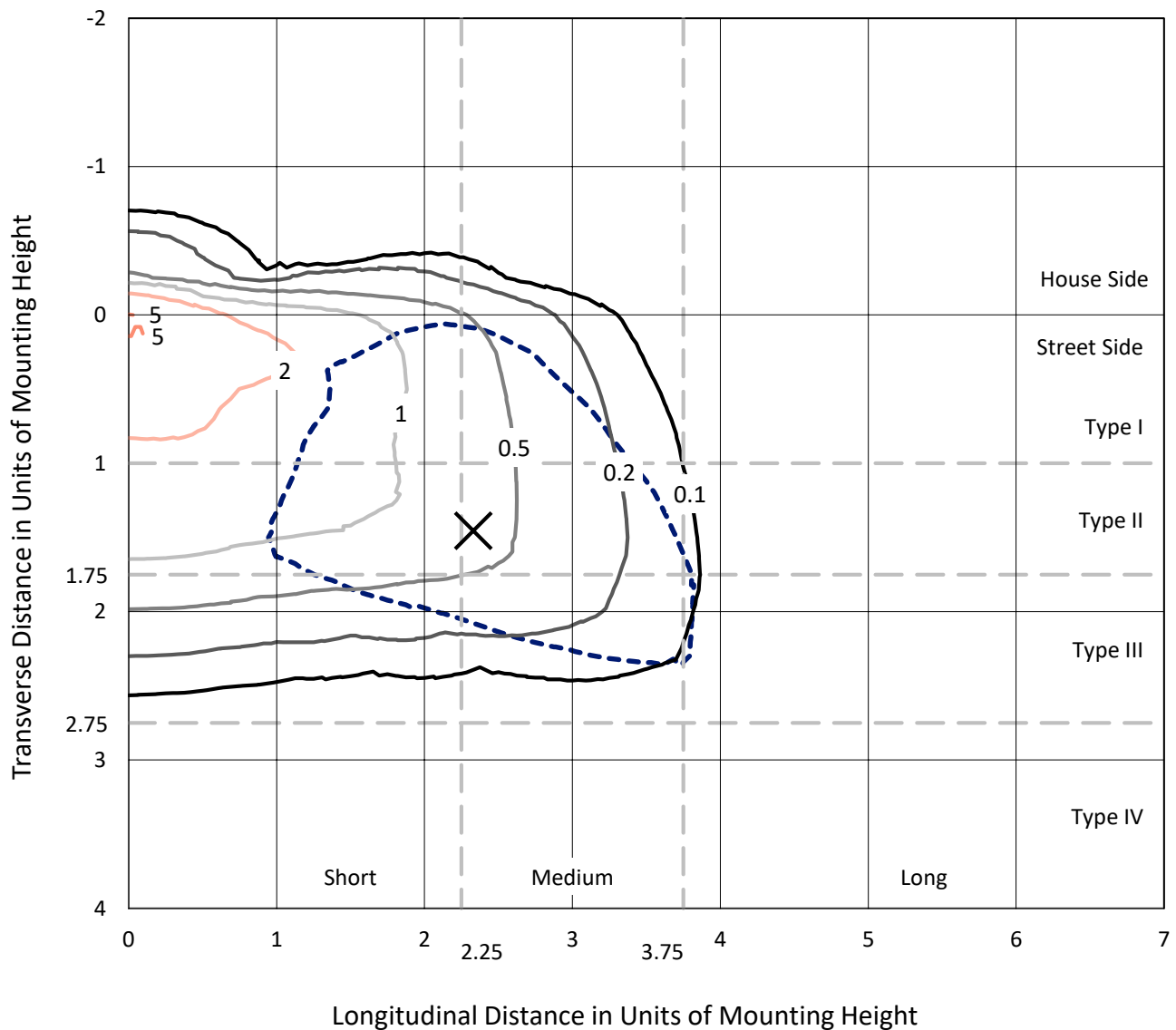
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

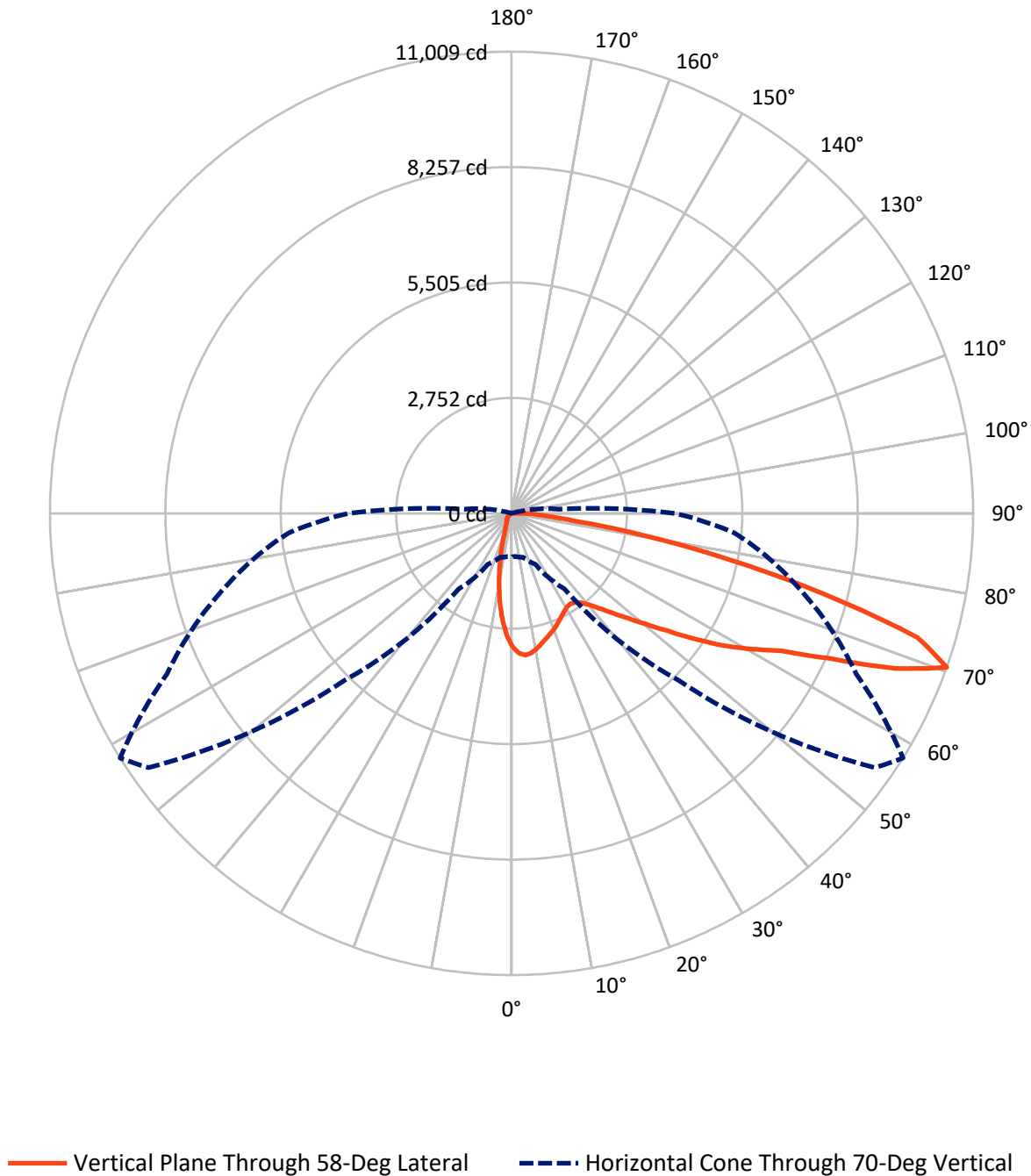
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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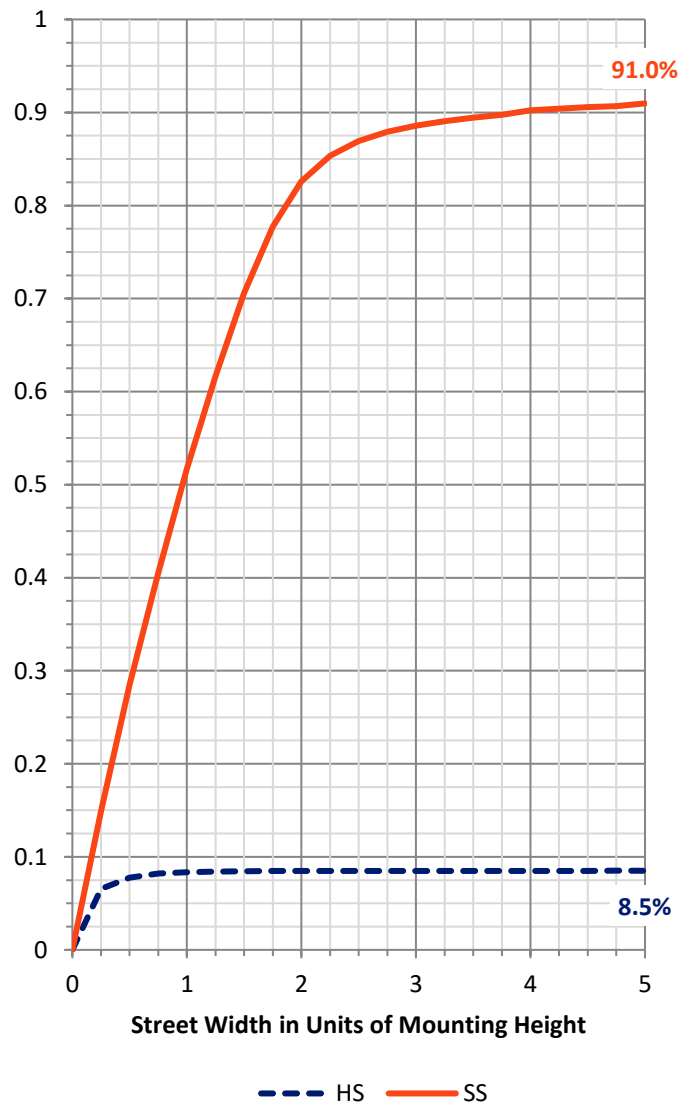
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	922.4	0.0	922.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	9855.6	0.0	9855.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	10778.0	0.0	10778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	2.4
10°-20°	546.4	5.1
20°-30°	718.3	6.7
30°-40°	951.4	8.8
40°-50°	1422.0	13.2
50°-60°	2278.0	21.1
60°-70°	2871.4	26.6
70°-80°	1548.8	14.4
80°-90°	181.3	1.7
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°	10778.0	100.0
0°-180°	10778.0	100.0

Coefficient of Utilization



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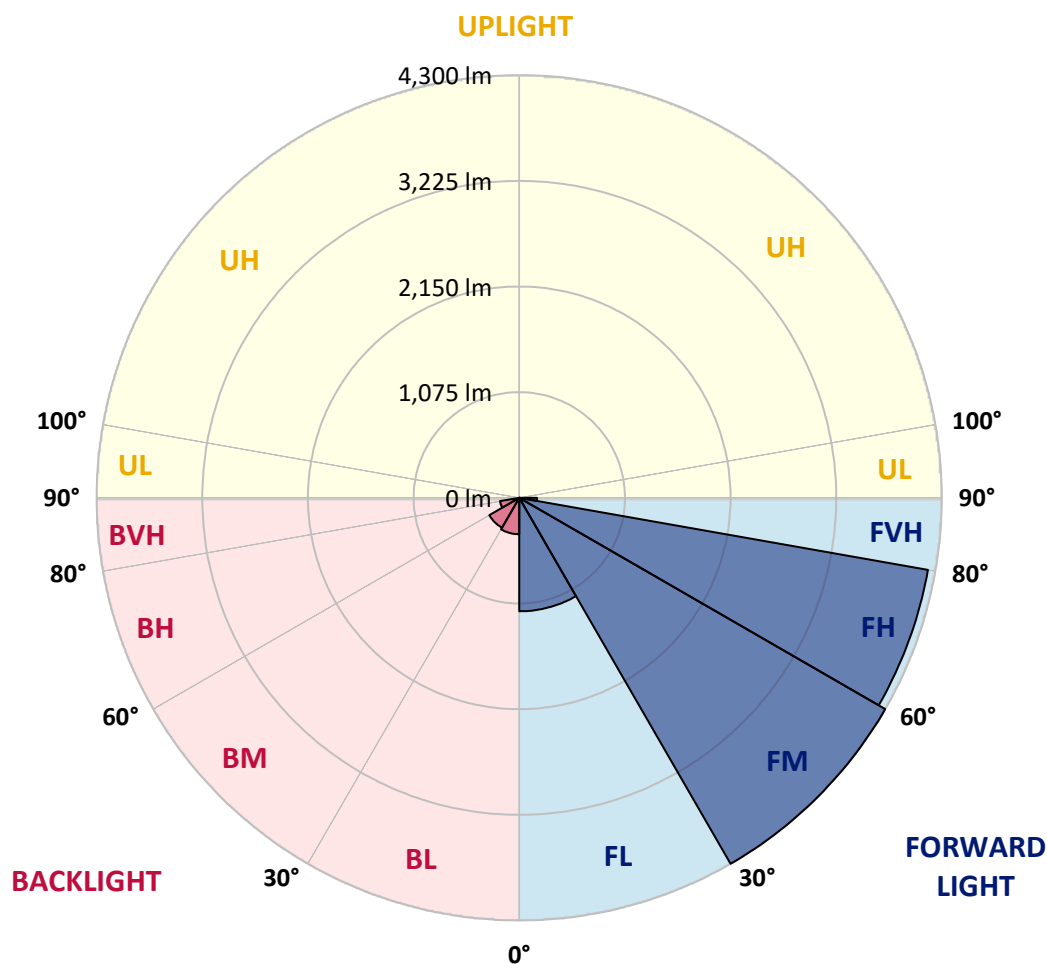
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1154.5	10.7			
FM	(30°-60°)	4299.5	39.9			
FH	(60°-80°)	4221.9	39.2			G2/5000
FVH	(80°-90°)	179.7	1.7			G2/225
BL	(0°-30°)	370.6	3.4	B1/500		
BM	(30°-60°)	351.9	3.3	B1/1000		
BH	(60°-80°)	198.4	1.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8
2.5°	3447.7	3439.2	3436.1	3430.7	3410.1	3389.9	3350.0	3338.8	3313.7	3254.1	3190.9
5°	3450.4	3450.0	3459.4	3457.2	3450.0	3440.6	3411.9	3397.1	3354.5	3269.4	3153.7
7.5°	3284.2	3292.7	3313.7	3330.8	3350.5	3376.0	3379.6	3365.3	3330.3	3238.4	3085.2
10°	3061.0	3074.4	3104.0	3137.6	3189.1	3240.2	3286.0	3284.2	3272.1	3181.5	3002.7
12.5°	2837.3	2853.0	2887.1	2936.8	3009.9	3093.2	3174.8	3186.0	3206.2	3130.4	2926.5
15°	2641.5	2654.9	2688.5	2749.5	2840.0	2952.1	3071.7	3092.3	3144.3	3090.6	2862.9
17.5°	2475.2	2483.7	2508.4	2576.1	2680.9	2816.7	2972.2	3012.6	3090.1	3059.2	2807.8
20°	2359.1	2360.5	2376.6	2424.1	2529.0	2680.9	2869.2	2927.0	3032.7	3032.3	2750.8
22.5°	2301.8	2297.3	2300.4	2327.8	2404.9	2551.4	2766.1	2834.6	2981.2	3009.4	2693.0
25°	2291.0	2287.4	2278.5	2282.1	2328.7	2438.0	2662.1	2741.4	2935.9	2995.5	2642.8
27.5°	2324.6	2328.2	2313.0	2296.8	2300.4	2364.5	2569.8	2661.7	2899.2	2995.5	2607.4
30°	2392.3	2394.1	2382.9	2361.8	2333.6	2343.9	2505.7	2597.6	2880.8	3016.2	2585.0
32.5°	2467.2	2477.0	2475.7	2458.6	2418.3	2376.6	2490.5	2574.3	2879.5	3061.9	2582.8
35°	2559.9	2571.1	2590.0	2586.4	2544.2	2475.7	2542.4	2608.3	2905.9	3137.2	2607.0
37.5°	2658.5	2675.6	2715.9	2735.2	2707.8	2630.3	2659.0	2706.0	2976.7	3259.1	2668.4
40°	2754.0	2773.3	2846.7	2922.5	2901.9	2822.1	2835.5	2873.2	3102.7	3434.3	2784.9
42.5°	2847.6	2876.3	2984.3	3108.9	3133.6	3069.9	3077.1	3107.1	3289.5	3675.4	2975.4
45°	2959.7	2992.0	3152.0	3305.7	3371.6	3343.8	3374.2	3394.0	3533.8	3994.1	3232.2
47.5°	3124.2	3161.4	3357.7	3532.9	3648.5	3666.4	3727.8	3740.8	3842.6	4365.1	3567.0
50°	3445.1	3455.4	3632.8	3791.9	3958.6	4066.2	4136.1	4146.0	4216.3	4770.7	3985.1
52.5°	3848.8	3855.6	3956.0	4062.6	4252.2	4471.8	4635.4	4649.3	4664.1	5166.0	4397.9
55°	4250.0	4249.1	4315.4	4378.1	4595.0	4914.1	5269.1	5277.6	5171.4	5541.1	4713.4
57.5°	4500.5	4524.7	4625.5	4706.2	5009.1	5418.3	5910.9	5942.2	5704.3	5819.0	5025.3
60°	4420.7	4432.4	4656.0	4954.5	5525.0	6134.9	6560.3	6568.3	6104.9	6096.4	5419.7
62.5°	3766.4	3772.7	4124.0	4739.4	5786.3	7064.4	7343.6	7212.3	6565.6	6481.4	5891.6
65°	2581.4	2622.2	2915.8	3676.3	5306.3	7647.5	8556.4	8339.0	7267.9	7036.2	6318.2
67.5°	1520.2	1511.7	1656.9	2217.1	3897.3	7260.3	10090.5	9874.4	8225.6	7407.7	6193.2
70°	1038.4	1032.6	1088.1	1342.3	2200.0	5632.1	10573.1	11009.2	9071.3	7157.7	5330.0
72.5°	741.3	744.4	826.4	1042.9	1381.2	3281.5	9092.4	10124.5	8806.5	6239.8	4051.4
75°	503.3	511.8	629.2	855.5	1210.9	1669.4	6452.2	7696.4	7171.1	4535.0	2328.7
77.5°	270.7	280.1	418.6	689.3	1094.9	1159.9	4150.5	5296.9	4504.5	2038.7	674.9
80°	112.9	118.3	195.8	501.0	946.1	1018.7	2442.1	3212.0	1919.5	402.0	150.6
82.5°	48.9	51.5	81.6	298.9	707.2	860.0	1293.0	1545.3	581.7	88.3	75.7
85°	9.4	9.9	33.6	158.2	451.3	485.4	838.1	821.5	261.3	38.1	55.1
87.5°	0.0	0.0	8.1	49.7	132.7	264.4	511.4	505.1	88.7	18.4	20.6
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°	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8
2.5°	3158.7	3127.7	3062.8	2982.5	2921.1	2853.5	2799.7	2731.6	2702.0	2703.3	2687.2
5°	3087.9	3024.2	2880.4	2698.9	2559.0	2414.7	2290.6	2166.9	2093.8	2070.1	2047.7
7.5°	2986.6	2885.7	2656.3	2376.6	2140.0	1908.7	1707.5	1530.5	1418.4	1363.8	1343.6
10°	2872.3	2730.7	2398.6	2030.2	1692.3	1379.5	1118.6	891.9	801.3	739.9	724.2
12.5°	2771.9	2580.1	2146.7	1674.8	1273.7	896.3	647.6	506.4	445.0	420.8	416.8
15°	2677.3	2439.4	1904.3	1353.0	882.0	551.7	411.9	363.9	349.6	345.5	345.5
17.5°	2588.2	2305.4	1667.2	1036.2	583.5	386.8	341.1	330.3	325.8	325.4	325.8
20°	2494.9	2171.4	1434.1	759.2	407.4	327.6	315.1	309.2	307.9	307.9	307.9
22.5°	2405.8	2037.4	1207.4	542.3	326.7	298.9	292.7	288.6	287.3	286.8	285.9
25°	2320.2	1910.1	986.0	383.2	286.8	273.8	268.5	263.1	259.0	256.8	255.5
27.5°	2249.8	1796.7	779.8	307.4	259.0	247.8	241.1	233.0	223.2	218.7	216.9
30°	2193.8	1693.2	601.0	259.5	233.0	221.8	211.5	197.6	183.3	175.7	175.2
32.5°	2149.9	1591.4	456.2	229.5	209.7	195.8	181.1	163.6	147.0	138.5	138.0
35°	2128.3	1501.8	348.7	207.5	189.1	171.6	153.3	134.0	117.9	109.8	108.9
37.5°	2142.7	1426.1	272.0	189.1	171.6	151.5	130.0	109.8	95.5	88.3	87.8
40°	2195.1	1377.7	220.9	173.4	156.9	132.2	108.9	90.1	78.0	72.2	71.7
42.5°	2306.7	1359.7	188.7	160.4	142.5	114.3	90.5	74.4	63.2	59.2	58.3
45°	2493.1	1386.2	166.7	147.9	127.7	97.3	74.8	61.0	51.1	48.0	47.5
47.5°	2741.4	1455.6	151.0	135.8	114.3	82.0	62.3	49.3	41.7	38.5	38.1
50°	3061.4	1565.9	138.0	123.7	101.7	69.5	51.5	39.0	32.3	30.0	30.0
52.5°	3409.6	1697.2	126.4	112.5	89.2	57.8	41.7	30.0	25.5	22.9	22.9
55°	3697.4	1811.9	113.8	104.0	73.9	48.0	31.8	22.9	18.8	17.5	17.5
57.5°	3984.6	1934.3	99.5	89.2	59.2	39.0	24.2	17.0	13.9	13.0	13.0
60°	4357.1	2084.0	85.6	72.6	46.6	29.6	17.9	12.1	10.3	9.9	9.9
62.5°	4766.7	2171.8	73.1	58.3	36.3	22.0	13.0	8.1	7.6	7.6	7.2
65°	5017.2	2047.7	61.4	46.6	28.2	16.6	8.5	5.8	6.7	6.3	5.4
67.5°	4697.7	1603.1	50.2	36.3	22.0	12.5	5.4	4.0	7.2	5.8	4.5
70°	3889.6	1122.2	39.0	25.5	17.5	10.8	3.6	2.7	7.6	5.8	3.6
72.5°	2910.8	751.1	30.9	17.0	13.0	9.4	3.1	1.3	6.7	4.9	3.1
75°	1590.5	302.5	24.6	10.8	8.1	6.7	2.2	0.9	4.5	3.6	2.2
77.5°	418.6	79.8	17.9	7.2	4.5	2.7	1.3	0.4	2.2	1.8	0.9
80°	106.7	30.9	11.7	4.9	3.1	1.3	0.0	0.0	0.4	0.0	0.0
82.5°	56.9	13.0	7.2	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.0	8.5	4.0	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)