

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: P319827

Luminaire Tested: **GAN-SA3A-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11307 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

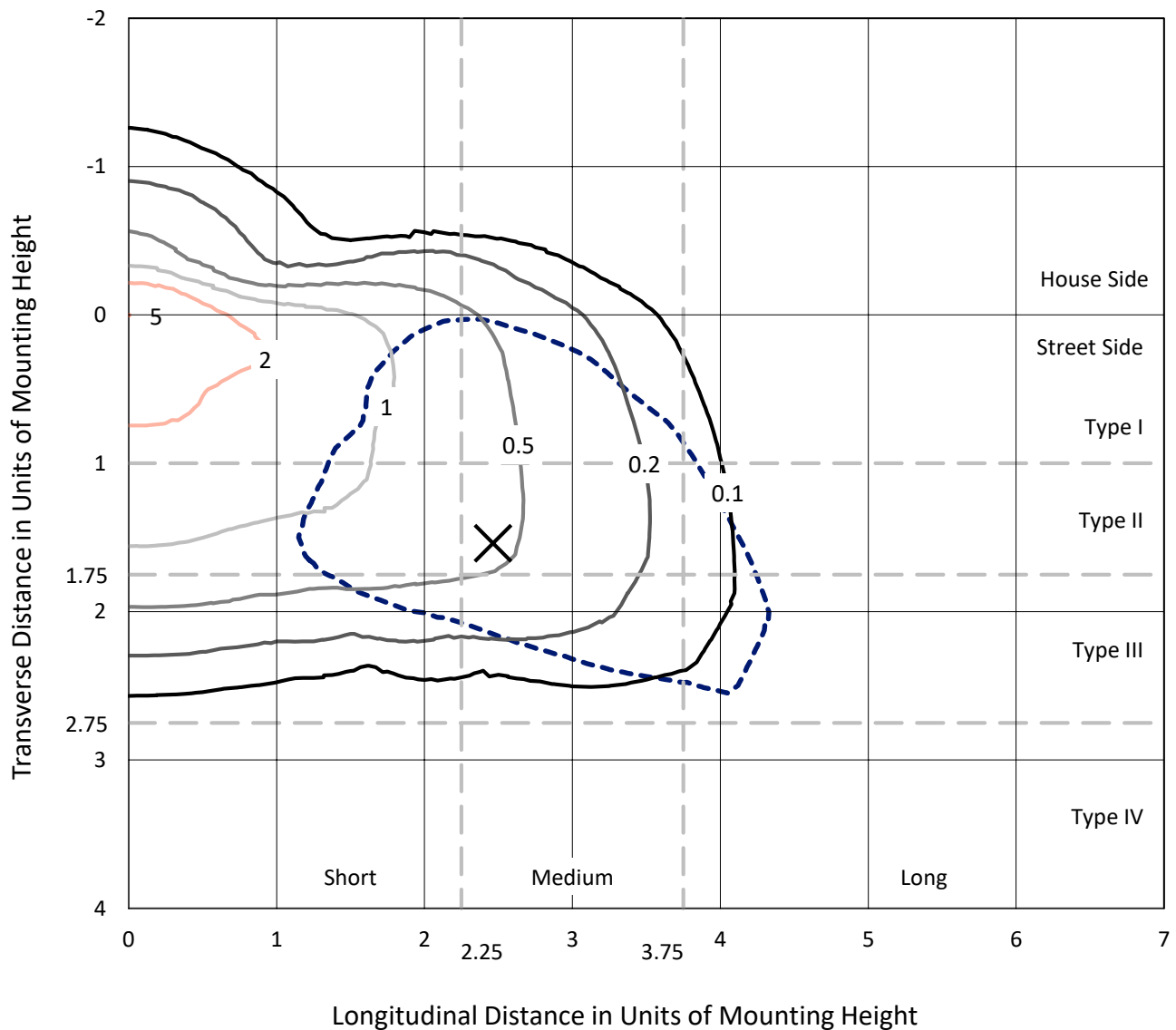
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

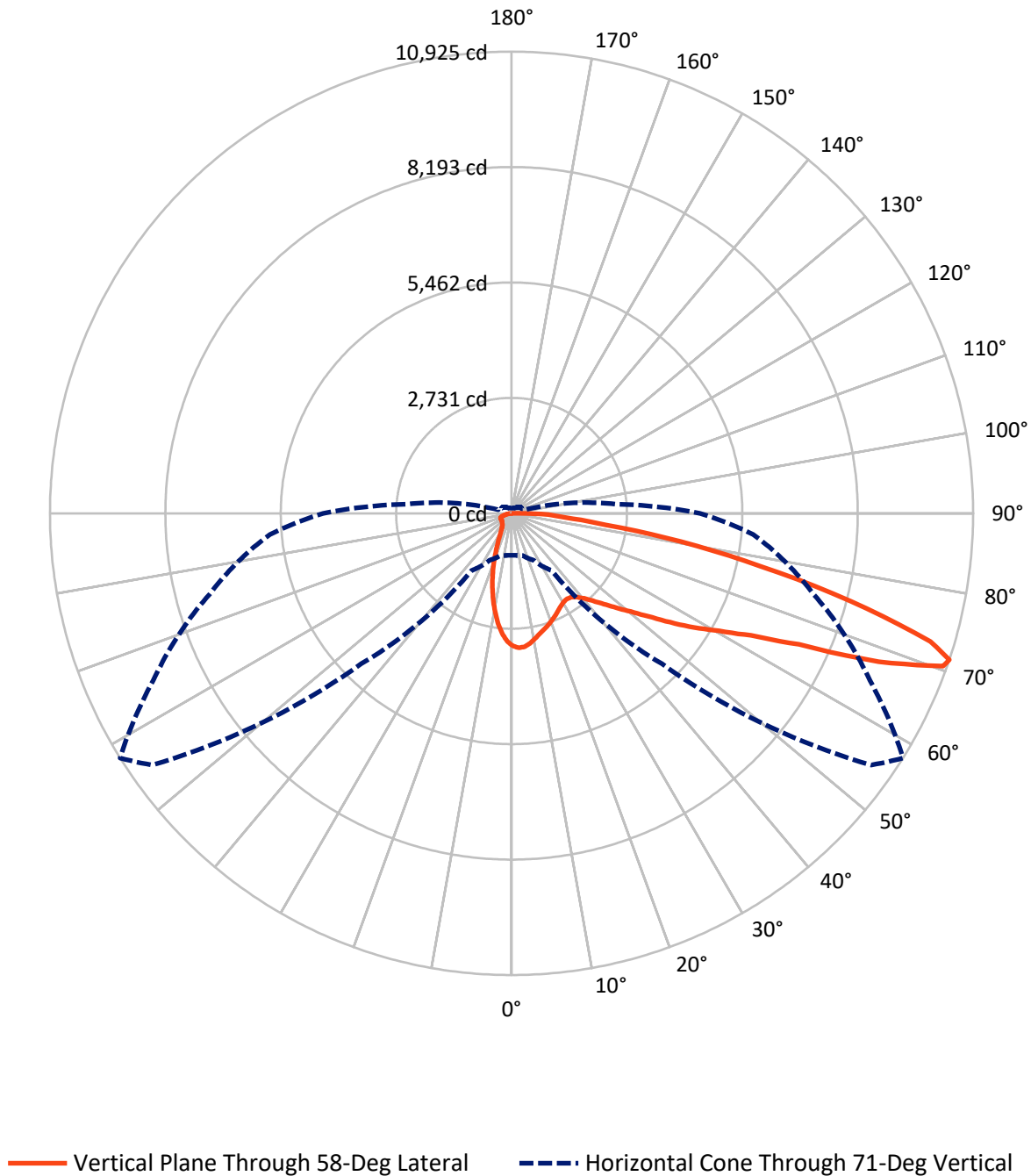
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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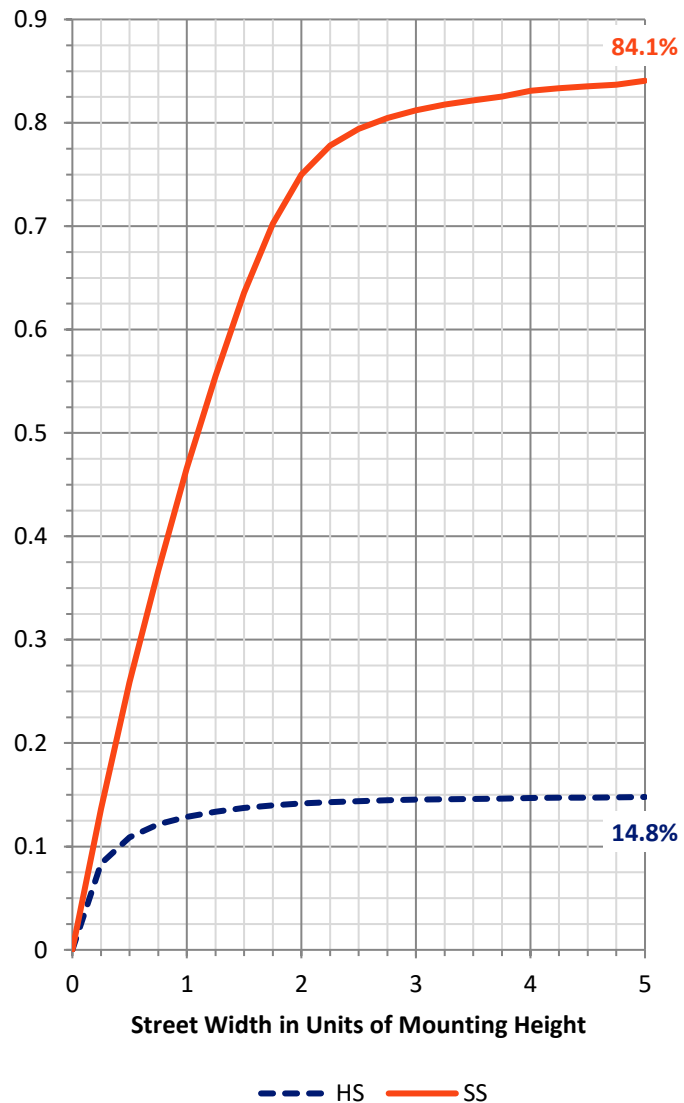
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1690.5	0.0	1690.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9616.5	0.0	9616.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	11307.0	0.0	11307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	2.4
10°-20°	601.0	5.3
20°-30°	763.8	6.8
30°-40°	972.9	8.6
40°-50°	1379.6	12.2
50°-60°	2135.0	18.9
60°-70°	2906.5	25.7
70°-80°	1939.0	17.1
80°-90°	339.0	3.0
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°	11307.0	100.0
0°-180°	11307.0	100.0

Coefficient of Utilization



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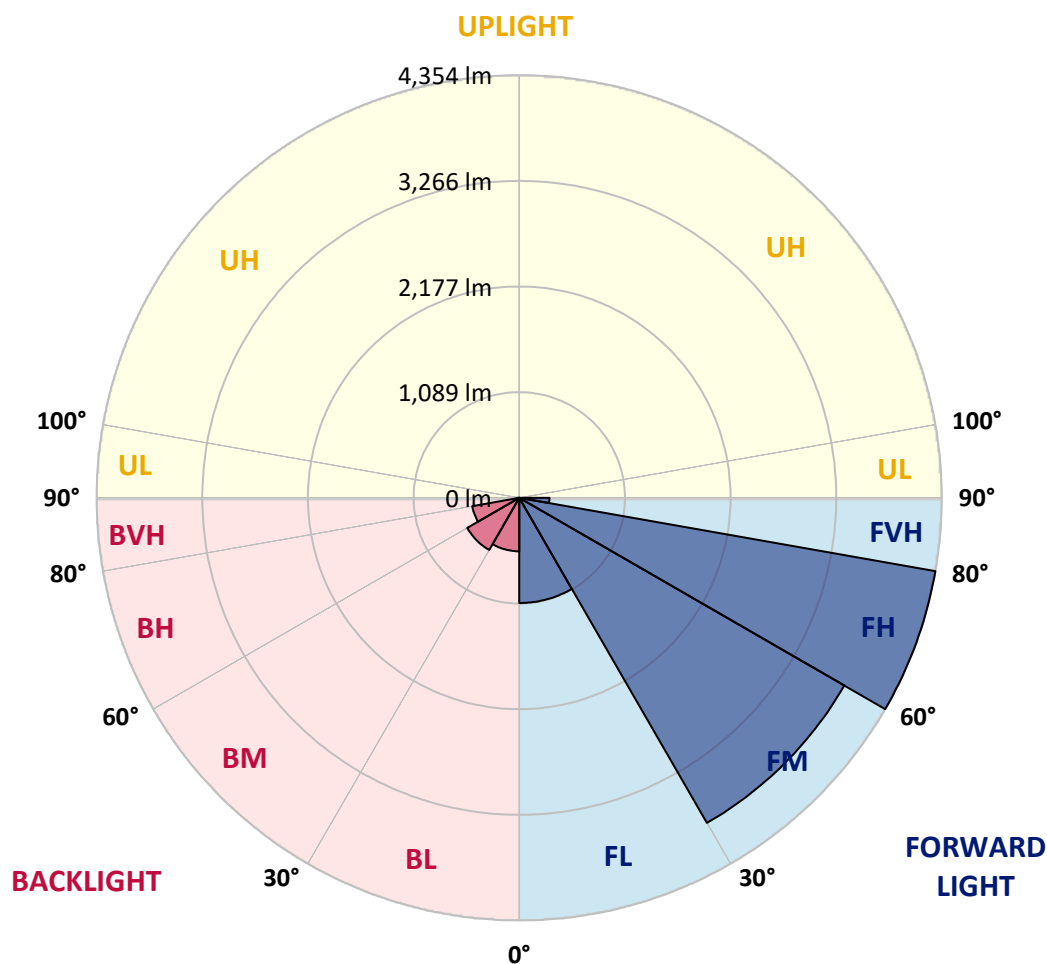
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.0	9.6			
FM	(30°-60°)	3867.5	34.2			
FH	(60°-80°)	4354.2	38.5			G2/5000
FVH	(80°-90°)	310.8	2.7			G3/500
BL	(0°-30°)	551.0	4.9	B2/1000		
BM	(30°-60°)	620.0	5.5	B1/1000		
BH	(60°-80°)	491.3	4.3	B1/500		G1/500
BVH	(80°-90°)	28.2	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8
2.5°	3215.9	3211.6	3213.1	3210.0	3202.5	3195.0	3184.0	3186.0	3170.6	3147.8	3119.4
5°	3155.2	3153.7	3165.5	3172.2	3177.7	3173.4	3170.2	3174.2	3151.7	3120.2	3071.0
7.5°	3028.0	3010.7	3025.7	3048.1	3069.4	3085.5	3106.8	3109.6	3095.4	3062.3	2997.7
10°	2847.2	2830.7	2852.8	2887.8	2930.3	2968.9	3011.9	3019.8	3022.5	2992.6	2914.2
12.5°	2659.8	2647.2	2669.2	2718.4	2789.0	2848.4	2917.0	2928.8	2953.2	2933.1	2837.0
15°	2492.0	2487.3	2514.0	2562.5	2643.6	2734.6	2833.5	2855.1	2896.5	2889.8	2776.7
17.5°	2347.0	2345.9	2366.3	2417.1	2506.9	2622.0	2750.4	2787.0	2848.4	2856.3	2727.1
20°	2239.1	2236.8	2250.9	2288.4	2380.9	2511.3	2660.6	2711.0	2799.6	2827.2	2675.9
22.5°	2181.2	2180.8	2181.2	2198.9	2274.6	2395.9	2573.1	2634.6	2751.9	2803.9	2619.2
25°	2171.4	2170.2	2161.5	2159.6	2202.5	2299.4	2486.5	2554.2	2706.6	2787.8	2565.2
27.5°	2197.0	2198.5	2187.1	2168.6	2177.3	2236.0	2411.2	2483.7	2670.4	2784.6	2527.8
30°	2250.1	2249.4	2239.5	2220.2	2203.3	2212.3	2357.7	2430.1	2646.0	2798.4	2502.2
32.5°	2308.8	2313.2	2311.2	2300.6	2275.4	2239.1	2341.5	2412.4	2638.9	2831.5	2491.2
35°	2379.3	2384.1	2398.2	2406.5	2377.0	2318.7	2376.2	2437.6	2659.4	2893.7	2508.9
37.5°	2446.3	2458.5	2498.3	2533.3	2508.1	2443.1	2468.3	2512.1	2722.8	2991.8	2556.6
40°	2523.5	2534.1	2599.1	2673.5	2669.6	2602.3	2616.8	2646.0	2834.6	3132.4	2642.8
42.5°	2599.5	2620.8	2714.9	2820.5	2850.8	2791.3	2814.6	2829.9	2992.2	3318.7	2793.3
45°	2700.7	2723.6	2854.3	2981.6	3052.4	3019.0	3056.0	3061.9	3190.3	3572.3	3011.9
47.5°	2853.9	2879.9	3032.4	3165.9	3274.2	3277.7	3338.8	3336.4	3437.6	3862.6	3287.2
50°	3092.6	3130.0	3254.9	3379.7	3511.3	3584.6	3666.1	3654.7	3734.2	4171.8	3604.3
52.5°	3405.3	3422.7	3515.2	3607.4	3770.9	3935.1	4052.1	4041.8	4070.6	4489.7	3964.2
55°	3729.5	3742.5	3780.7	3831.1	4050.9	4318.7	4566.1	4549.9	4477.1	4819.7	4319.9
57.5°	4021.0	4047.3	4073.7	4094.6	4332.9	4719.7	5091.9	5093.1	4918.2	5175.8	4687.4
60°	4066.3	4089.5	4264.0	4428.6	4815.4	5254.5	5654.7	5642.9	5374.7	5562.1	5097.0
62.5°	3594.4	3646.8	3938.2	4376.2	5280.1	6232.9	6372.7	6358.1	5920.6	6038.3	5574.0
65°	2575.9	2635.3	2987.1	3645.2	5054.9	7310.9	7668.5	7472.4	6665.0	6624.0	6132.5
67.5°	1486.0	1500.2	1652.7	2181.2	3848.8	7367.2	9645.3	9370.8	7821.0	7288.5	6405.8
70°	1098.9	1098.5	1134.7	1342.3	2082.8	6012.7	10585.5	10831.7	9038.0	7507.0	6019.4
71°	993.7	994.9	1035.5	1221.8	1649.5	5032.8	10385.8	10924.6	9358.6	7399.1	5739.8
72.5°	850.0	853.9	910.2	1095.7	1387.6	3470.7	9525.6	10366.9	9510.6	7132.9	5302.2
75°	644.8	653.8	731.8	923.6	1268.2	1760.2	6991.1	8278.2	8448.8	6293.9	3939.8
77.5°	460.0	470.3	558.5	776.7	1205.6	1326.5	4681.9	6038.3	6217.5	4033.6	1777.1
80°	290.7	302.9	369.4	618.0	1132.8	1259.6	2942.2	4058.8	3390.4	1290.7	452.2
82.5°	170.5	180.0	229.2	403.7	925.2	1213.1	1731.0	2249.8	1319.4	389.9	205.6
85°	98.9	103.2	143.0	257.2	671.9	1145.0	1271.8	1257.6	572.7	190.6	97.3
87.5°	46.1	51.2	84.7	134.3	373.0	829.9	1005.1	868.5	356.1	89.4	45.7
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°	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8
2.5°	3105.6	3098.9	3071.0	3046.1	3020.1	2986.3	2948.9	2944.1	2921.3	2925.6	2917.7
5°	3044.2	3027.2	2959.9	2898.8	2826.8	2762.2	2692.1	2659.8	2613.3	2610.1	2598.3
7.5°	2956.3	2924.8	2820.5	2704.7	2588.9	2478.6	2369.5	2297.8	2224.5	2193.4	2190.7
10°	2857.5	2803.9	2650.3	2479.0	2312.0	2150.9	1994.9	1879.5	1775.5	1726.3	1724.3
12.5°	2763.7	2684.6	2473.9	2240.7	2012.3	1803.5	1589.6	1438.0	1307.6	1263.9	1245.4
15°	2684.2	2572.7	2302.1	2004.0	1726.7	1436.8	1193.4	1033.9	913.4	871.6	863.7
17.5°	2607.0	2463.6	2126.1	1764.9	1429.7	1111.1	867.3	748.7	684.5	667.6	667.2
20°	2530.2	2351.4	1942.1	1520.3	1142.6	831.1	666.8	613.6	592.0	590.0	586.9
22.5°	2443.1	2232.4	1748.8	1274.9	891.7	653.4	566.8	545.5	542.7	549.8	549.8
25°	2361.6	2114.3	1552.6	1034.7	693.6	545.1	506.1	501.8	509.3	521.9	523.1
27.5°	2285.6	2000.4	1361.2	821.2	555.7	480.1	464.0	469.1	482.5	497.1	497.5
30°	2223.0	1892.9	1175.3	647.1	469.5	431.7	428.9	439.2	453.7	465.2	467.9
32.5°	2174.5	1801.1	995.7	520.3	413.2	395.4	397.8	406.5	415.5	421.8	426.2
35°	2152.1	1722.4	829.9	438.8	377.3	367.5	370.6	375.4	379.3	384.0	387.6
37.5°	2156.0	1661.3	681.8	388.0	353.3	348.2	348.2	348.2	348.2	350.5	350.9
40°	2192.6	1626.3	561.3	355.7	337.1	331.6	327.3	323.4	320.2	321.8	321.0
42.5°	2286.4	1623.1	473.0	335.2	324.2	315.1	306.4	300.9	297.0	298.5	299.3
45°	2445.5	1662.5	413.6	320.6	311.9	298.2	287.1	281.2	278.5	283.6	284.4
47.5°	2651.5	1748.4	377.3	310.0	300.5	282.4	270.6	265.1	265.9	273.3	275.3
50°	2917.0	1887.8	360.0	303.3	292.6	269.0	256.8	252.1	254.4	265.1	267.4
52.5°	3208.4	2088.7	362.0	301.3	287.5	259.2	246.2	240.7	244.6	254.4	256.4
55°	3544.8	2330.1	394.7	304.1	280.0	252.9	237.5	228.0	231.2	240.3	241.8
57.5°	3918.6	2606.6	460.4	303.3	270.6	247.0	228.4	214.3	216.6	222.1	223.7
60°	4307.7	2940.6	562.4	305.6	266.3	239.9	216.2	198.5	197.7	202.4	203.2
62.5°	4774.8	3327.0	679.0	307.2	269.0	230.8	200.1	182.8	180.4	181.6	182.4
65°	5256.1	3606.6	635.3	300.9	277.7	223.3	185.9	167.4	163.1	162.3	162.7
67.5°	5271.1	3306.9	445.5	288.3	281.2	219.4	175.3	154.4	147.3	144.5	144.2
70°	4727.2	2686.5	347.0	274.9	267.0	213.1	165.4	143.8	133.1	128.8	128.4
71°	4461.7	2473.1	328.9	268.2	256.4	206.8	161.1	139.0	128.0	123.3	122.5
72.5°	4045.4	2217.1	306.8	257.6	235.9	190.6	152.8	132.3	120.9	115.4	114.2
75°	2903.2	1449.8	263.5	229.6	195.4	152.0	133.9	118.9	109.1	102.4	101.6
77.5°	1118.6	577.0	199.3	191.0	149.7	118.9	110.3	102.8	95.7	89.0	88.6
80°	345.8	258.0	145.3	143.8	108.3	88.6	85.9	83.9	81.1	74.0	72.5
82.5°	184.7	148.1	100.0	93.0	70.9	59.1	62.2	63.0	63.4	55.9	55.1
85°	88.2	78.4	56.3	52.8	41.4	33.1	38.2	41.4	41.7	34.3	31.9
87.5°	42.1	41.0	26.4	20.1	15.4	11.0	13.4	16.5	18.1	13.0	11.4
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)