

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: P319587

Luminaire Tested: **GAN-SA3A-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319587
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-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 11898 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

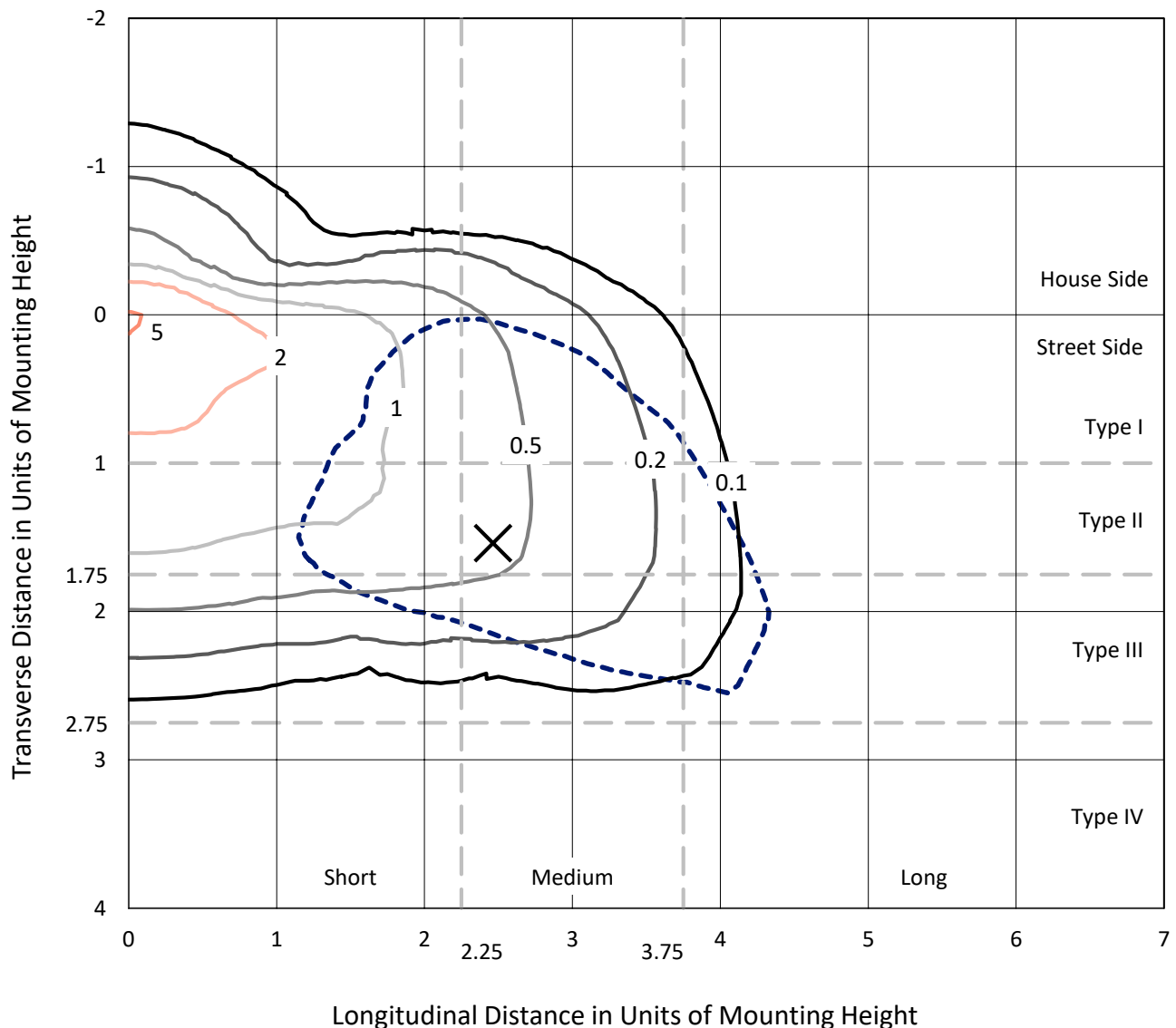
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

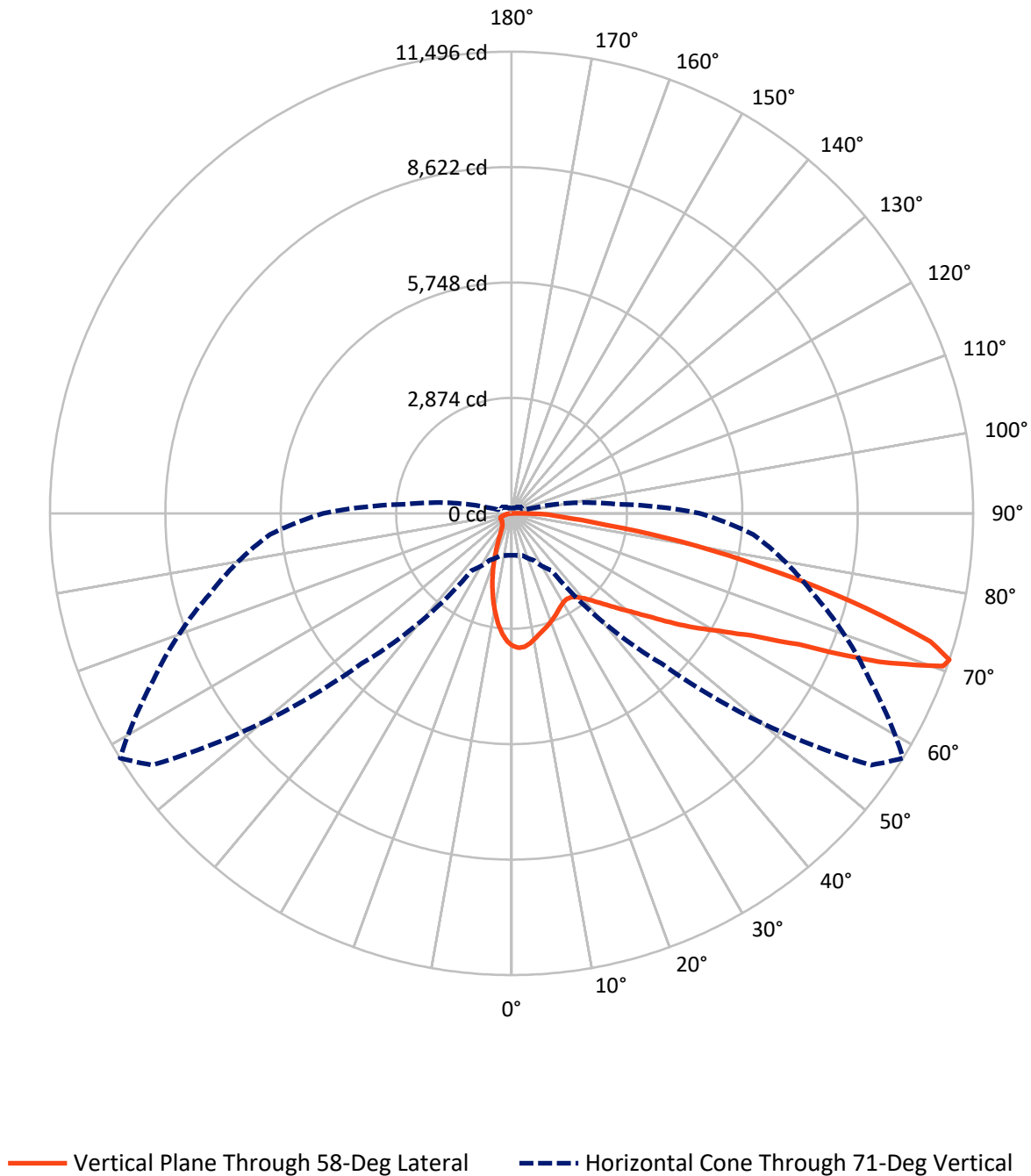
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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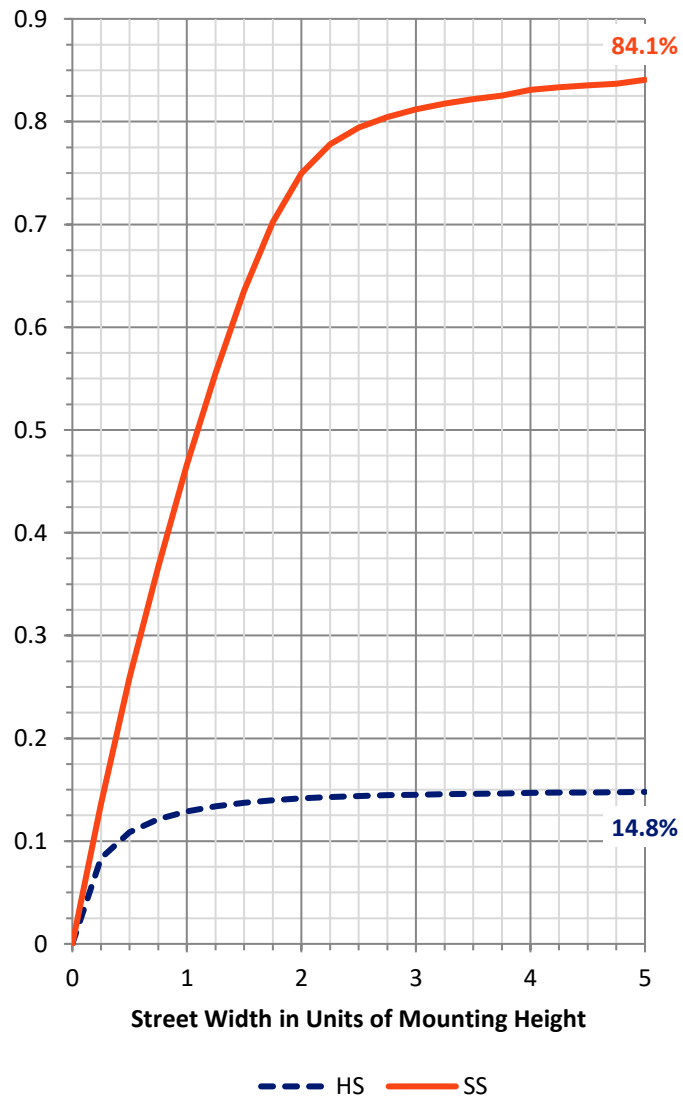
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1778.8	0.0	1778.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10119.2	0.0	10119.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	11898.0	0.0	11898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	2.4
10°-20°	632.4	5.3
20°-30°	803.7	6.8
30°-40°	1023.7	8.6
40°-50°	1451.7	12.2
50°-60°	2246.6	18.9
60°-70°	3058.4	25.7
70°-80°	2040.3	17.1
80°-90°	356.7	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°	11898.0	100.0
0°-180°	11898.0	100.0

Coefficient of Utilization



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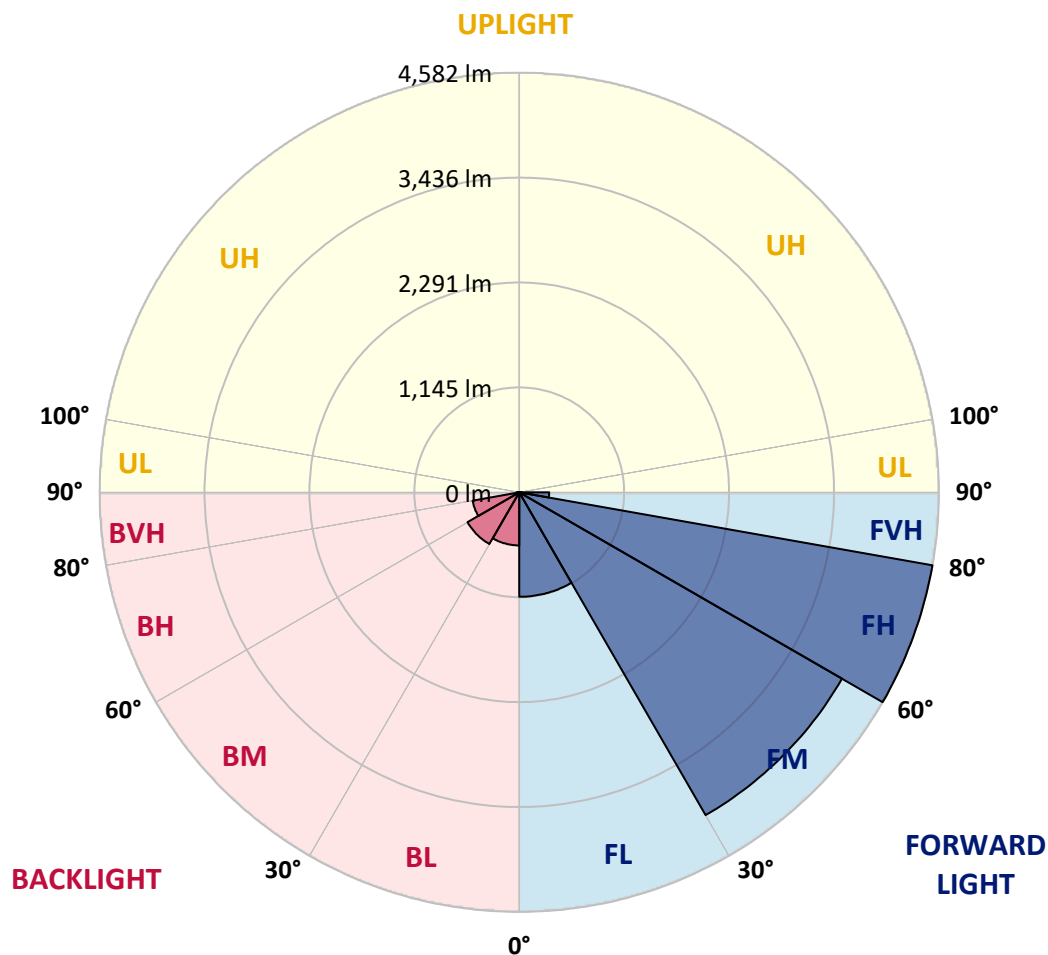
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1140.6	9.6			
FM	(30°-60°)	4069.7	34.2			
FH	(60°-80°)	4581.8	38.5			G2/5000
FVH	(80°-90°)	327.1	2.7			G3/500
BL	(0°-30°)	579.8	4.9	B2/1000		
BM	(30°-60°)	652.3	5.5	B1/1000		
BH	(60°-80°)	517.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.6	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°	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5
2.5°	3384.0	3379.4	3381.1	3377.8	3369.9	3362.0	3350.4	3352.5	3336.3	3312.3	3282.5
5°	3320.2	3318.5	3330.9	3338.0	3343.8	3339.2	3335.9	3340.1	3316.4	3283.3	3231.5
7.5°	3186.3	3168.1	3183.8	3207.4	3229.8	3246.8	3269.2	3272.1	3257.2	3222.4	3154.4
10°	2996.1	2978.7	3001.9	3038.8	3083.5	3124.1	3169.3	3177.6	3180.5	3149.0	3066.5
12.5°	2798.8	2785.5	2808.7	2860.5	2934.7	2997.3	3069.4	3081.9	3107.6	3086.4	2985.3
15°	2622.2	2617.3	2645.4	2696.4	2781.8	2877.5	2981.6	3004.4	3047.9	3040.8	2921.9
17.5°	2469.7	2468.5	2490.0	2543.5	2638.0	2759.0	2894.1	2932.7	2997.3	3005.6	2869.7
20°	2356.2	2353.7	2368.6	2408.0	2505.4	2642.5	2799.6	2852.7	2945.9	2974.9	2815.8
22.5°	2295.2	2294.8	2295.2	2313.9	2393.5	2521.1	2707.6	2772.3	2895.8	2950.5	2756.1
25°	2284.9	2283.6	2274.5	2272.4	2317.6	2419.6	2616.4	2687.7	2848.1	2933.5	2699.3
27.5°	2311.8	2313.5	2301.4	2282.0	2291.1	2352.8	2537.3	2613.5	2810.0	2930.2	2659.9
30°	2367.8	2366.9	2356.6	2336.3	2318.4	2328.0	2480.9	2557.2	2784.3	2944.7	2633.0
32.5°	2429.5	2434.1	2432.0	2420.8	2394.3	2356.2	2463.9	2538.5	2776.8	2979.5	2621.4
35°	2503.7	2508.7	2523.6	2532.3	2501.2	2439.9	2500.4	2565.0	2798.4	3045.0	2640.1
37.5°	2574.2	2587.0	2628.9	2665.7	2639.2	2570.8	2597.4	2643.4	2865.1	3148.2	2690.2
40°	2655.4	2666.6	2735.0	2813.3	2809.1	2738.3	2753.6	2784.3	2982.8	3296.1	2781.0
42.5°	2735.4	2757.8	2856.8	2967.9	2999.8	2937.2	2961.7	2977.8	3148.6	3492.2	2939.3
45°	2841.9	2865.9	3003.5	3137.4	3212.0	3176.8	3215.7	3221.9	3357.1	3759.1	3169.3
47.5°	3003.1	3030.5	3190.9	3331.4	3445.3	3449.1	3513.3	3510.8	3617.3	4064.5	3459.0
50°	3254.3	3293.6	3425.0	3556.4	3694.8	3771.9	3857.7	3845.7	3929.4	4389.9	3792.6
52.5°	3583.3	3601.6	3699.0	3796.0	3968.0	4140.8	4263.9	4253.1	4283.3	4724.3	4171.4
55°	3924.4	3938.1	3978.3	4031.4	4262.6	4544.5	4804.7	4787.7	4711.1	5071.6	4545.7
57.5°	4231.1	4258.9	4286.7	4308.6	4559.4	4966.4	5358.0	5359.3	5175.2	5446.3	4932.4
60°	4278.8	4303.2	4486.8	4660.1	5067.1	5529.2	5950.3	5937.8	5655.6	5852.9	5363.4
62.5°	3782.3	3837.4	4144.1	4605.0	5556.1	6558.7	6705.8	6690.5	6230.0	6353.9	5865.3
65°	2710.5	2773.1	3143.2	3835.7	5319.1	7693.0	8069.4	7863.0	7013.3	6970.2	6453.0
67.5°	1563.7	1578.6	1739.0	2295.2	4050.0	7752.3	10149.5	9860.6	8229.7	7669.4	6740.6
70°	1156.3	1155.9	1194.0	1412.4	2191.6	6327.0	11138.8	11397.8	9510.4	7899.4	6334.1
71°	1045.7	1046.9	1089.6	1285.6	1735.7	5295.9	10928.7	11495.6	9847.8	7785.9	6039.8
72.5°	894.4	898.5	957.8	1153.0	1460.1	3652.1	10023.5	10908.8	10007.7	7505.7	5579.3
75°	678.5	688.0	770.0	971.9	1334.5	1852.2	7356.5	8710.9	8890.4	6622.9	4145.8
77.5°	484.1	494.9	587.7	817.3	1268.6	1395.9	4926.6	6353.9	6542.5	4244.4	1870.0
80°	305.9	318.7	388.8	650.3	1192.0	1325.4	3095.9	4270.9	3567.6	1358.2	475.8
82.5°	179.5	189.4	241.2	424.8	973.5	1276.5	1821.5	2367.3	1388.4	410.3	216.3
85°	104.0	108.6	150.4	270.6	707.1	1204.8	1338.3	1323.3	602.6	200.6	102.4
87.5°	48.5	53.9	89.1	141.3	392.5	873.2	1057.7	913.9	374.7	94.1	48.1
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°	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5	3296.5
2.5°	3267.9	3260.9	3231.5	3205.4	3178.0	3142.4	3103.0	3098.0	3074.0	3078.5	3070.3
5°	3203.3	3185.5	3114.6	3050.4	2974.5	2906.5	2832.8	2798.8	2749.9	2746.6	2734.1
7.5°	3110.9	3077.7	2967.9	2846.0	2724.2	2608.1	2493.3	2417.9	2340.8	2308.1	2305.2
10°	3006.8	2950.5	2788.8	2608.6	2432.8	2263.3	2099.2	1977.8	1868.3	1816.5	1814.5
12.5°	2908.2	2824.9	2603.2	2357.8	2117.4	1897.8	1672.7	1513.2	1376.0	1330.0	1310.5
15°	2824.5	2707.2	2422.5	2108.7	1817.0	1511.9	1255.8	1087.9	961.1	917.2	908.9
17.5°	2743.2	2592.4	2237.2	1857.2	1504.5	1169.2	912.6	787.9	720.3	702.5	702.1
20°	2662.4	2474.3	2043.7	1599.8	1202.3	874.5	701.7	645.7	622.9	620.8	617.5
22.5°	2570.8	2349.1	1840.2	1341.6	938.3	687.6	596.4	574.0	571.1	578.6	578.6
25°	2485.0	2224.8	1633.8	1088.8	729.8	573.6	532.6	528.0	535.9	549.1	550.4
27.5°	2405.1	2105.0	1432.3	864.1	584.8	505.2	488.2	493.6	507.7	523.0	523.5
30°	2339.2	1991.9	1236.7	680.9	494.0	454.2	451.3	462.1	477.4	489.5	492.4
32.5°	2288.2	1895.3	1047.7	547.5	434.8	416.1	418.6	427.7	437.2	443.9	448.4
35°	2264.6	1812.4	873.2	461.7	397.0	386.7	390.0	395.0	399.1	404.1	407.8
37.5°	2268.7	1748.2	717.4	408.2	371.8	366.4	366.4	366.4	366.4	368.9	369.3
40°	2307.2	1711.3	590.6	374.2	354.8	349.0	344.4	340.3	336.9	338.6	337.8
42.5°	2405.9	1708.0	497.8	352.7	341.1	331.6	322.4	316.6	312.5	314.2	315.0
45°	2573.3	1749.4	435.2	337.4	328.2	313.7	302.1	295.9	293.0	298.4	299.2
47.5°	2790.1	1839.7	397.0	326.2	316.2	297.2	284.7	278.9	279.8	287.6	289.7
50°	3069.4	1986.5	378.8	319.1	307.9	283.1	270.2	265.2	267.7	278.9	281.4
52.5°	3376.1	2197.8	380.9	317.1	302.5	272.7	259.0	253.2	257.4	267.7	269.8
55°	3730.1	2451.9	415.3	320.0	294.7	266.1	249.9	240.0	243.3	252.8	254.5
57.5°	4123.4	2742.8	484.5	319.1	284.7	259.9	240.4	225.5	227.9	233.8	235.4
60°	4532.8	3094.3	591.8	321.6	280.2	252.4	227.5	208.9	208.1	213.0	213.9
62.5°	5024.4	3500.9	714.5	323.3	283.1	242.9	210.5	192.3	189.8	191.1	191.9
65°	5530.8	3795.1	668.5	316.6	292.2	235.0	195.6	176.1	171.6	170.8	171.2
67.5°	5546.6	3479.7	468.7	303.4	295.9	230.8	184.4	162.5	155.0	152.1	151.7
70°	4974.2	2827.0	365.1	289.3	281.0	224.2	174.1	151.3	140.1	135.5	135.1
71°	4694.9	2602.3	346.1	282.2	269.8	217.6	169.5	146.3	134.7	129.7	128.9
72.5°	4256.8	2332.9	322.9	271.1	248.3	200.6	160.8	139.3	127.2	121.4	120.2
75°	3054.9	1525.6	277.3	241.6	205.6	160.0	140.9	125.2	114.8	107.8	106.9
77.5°	1177.0	607.2	209.7	201.0	157.5	125.2	116.0	108.2	100.7	93.7	93.3
80°	363.9	271.5	152.9	151.3	114.0	93.3	90.4	88.3	85.4	77.9	76.3
82.5°	194.4	155.8	105.3	97.8	74.6	62.2	65.5	66.3	66.7	58.9	58.0
85°	92.8	82.5	59.3	55.5	43.5	34.8	40.2	43.5	43.9	36.1	33.6
87.5°	44.3	43.1	27.8	21.1	16.2	11.6	14.1	17.4	19.1	13.7	12.0
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)