

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: P319806

Luminaire Tested: **GAN-SA2C-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319806
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-SA2C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 10640 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

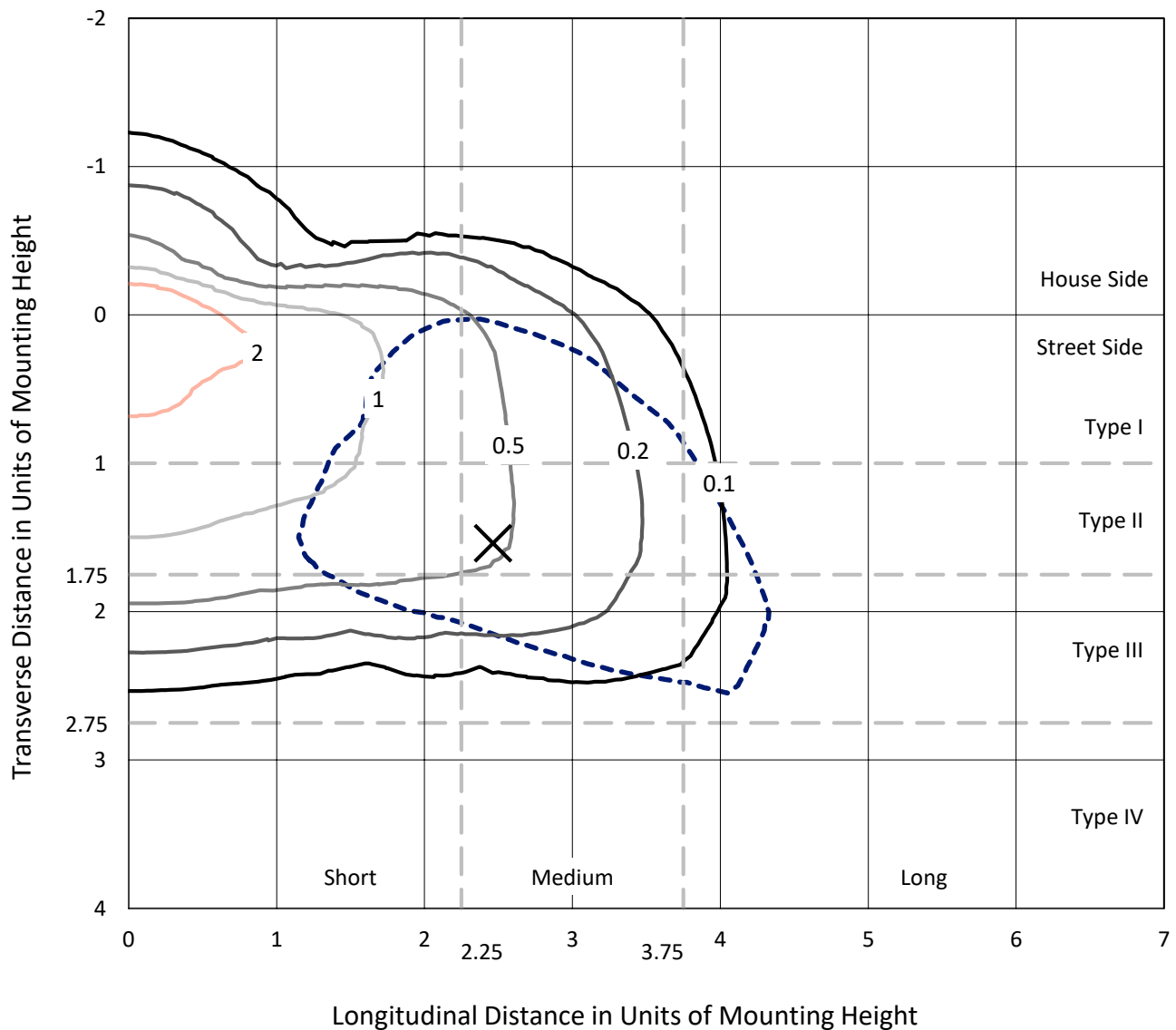
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

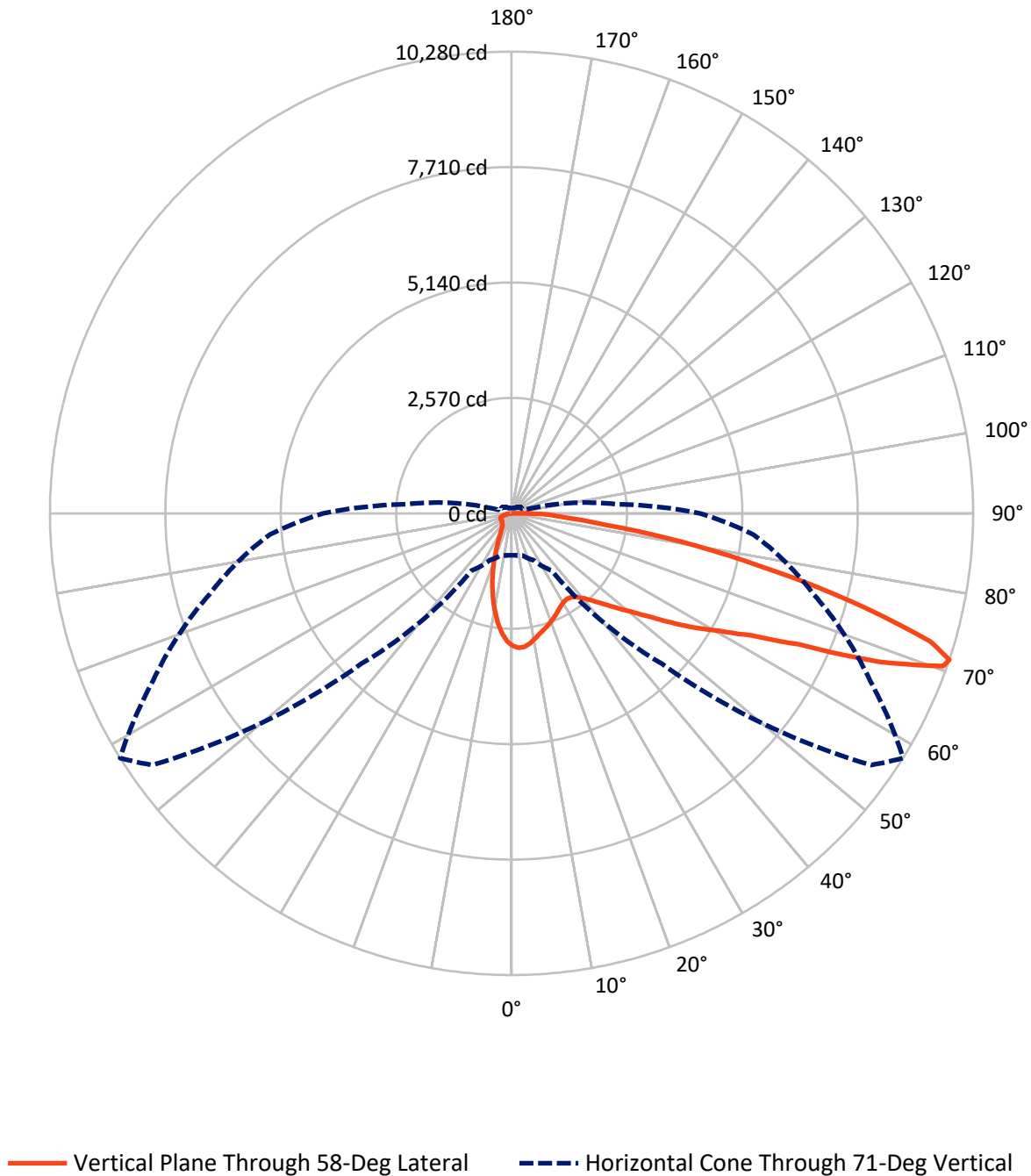
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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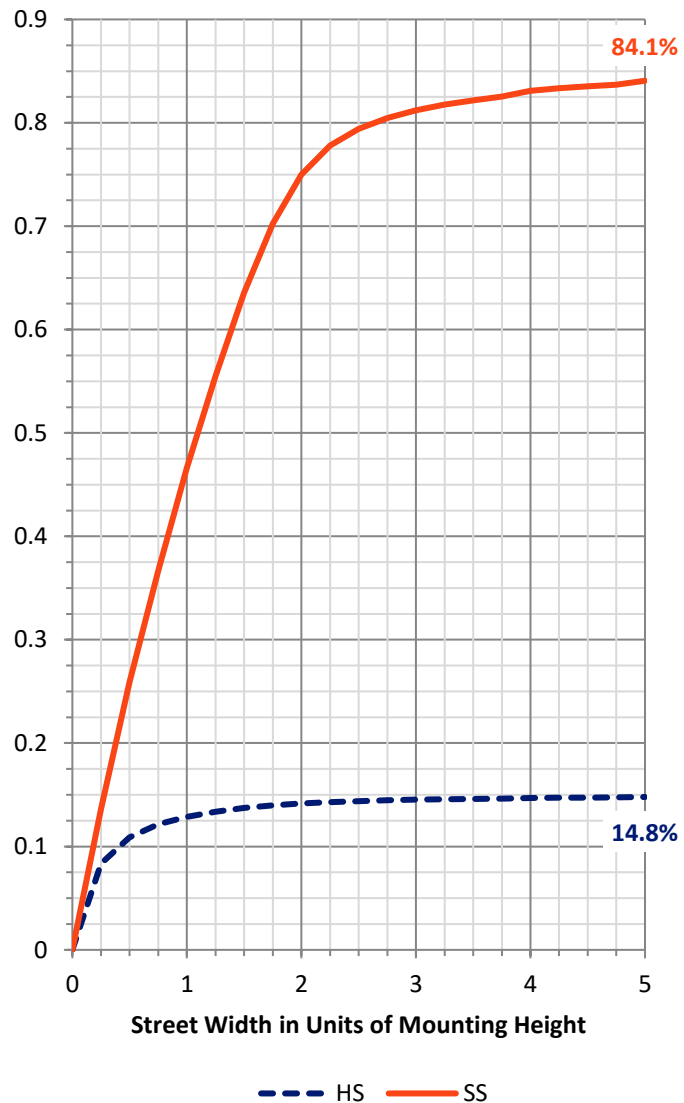
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1590.8	0.0	1590.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9049.2	0.0	9049.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	10640.0	0.0	10640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.3	2.4
10°-20°	565.5	5.3
20°-30°	718.7	6.8
30°-40°	915.5	8.6
40°-50°	1298.2	12.2
50°-60°	2009.1	18.9
60°-70°	2735.1	25.7
70°-80°	1824.6	17.1
80°-90°	319.0	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°	10640.0	100.0
0°-180°	10640.0	100.0

Coefficient of Utilization



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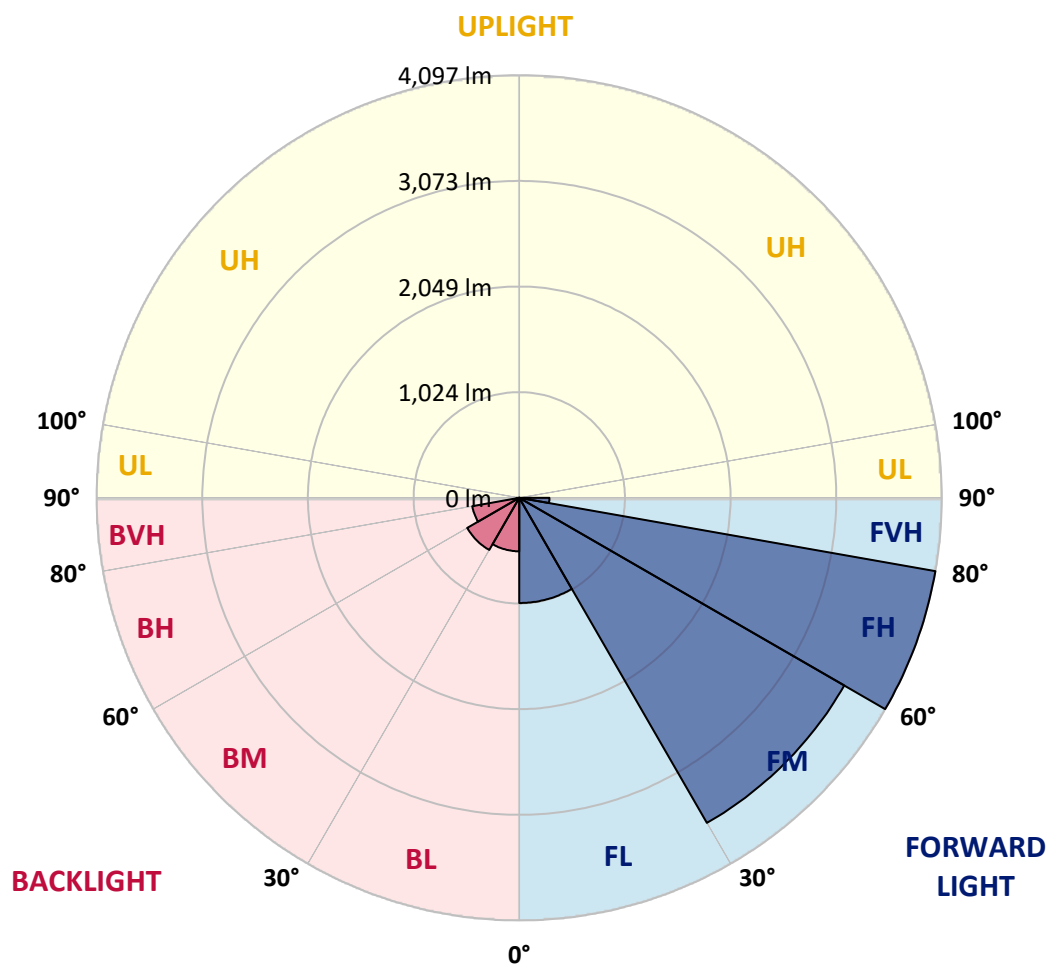
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1020.0	9.6			
FM	(30°-60°)	3639.4	34.2			
FH	(60°-80°)	4097.3	38.5			G2/5000
FVH	(80°-90°)	292.5	2.7			G3/500
BL	(0°-30°)	518.5	4.9	B2/1000		
BM	(30°-60°)	583.4	5.5	B1/1000		
BH	(60°-80°)	462.3	4.3	B1/500		G1/500
BVH	(80°-90°)	26.5	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°	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0
2.5°	3026.2	3022.1	3023.6	3020.6	3013.6	3006.6	2996.2	2998.0	2983.6	2962.1	2935.4
5°	2969.1	2967.6	2978.8	2985.1	2990.2	2986.2	2983.2	2986.9	2965.8	2936.1	2889.8
7.5°	2849.4	2833.1	2847.2	2868.3	2888.3	2903.5	2923.5	2926.1	2912.8	2881.6	2820.9
10°	2679.3	2663.7	2684.5	2717.5	2757.5	2793.8	2834.2	2841.6	2844.2	2816.0	2742.3
12.5°	2502.9	2491.0	2511.8	2558.1	2624.4	2680.4	2744.9	2756.0	2779.0	2760.1	2669.6
15°	2345.0	2340.5	2365.7	2411.3	2487.7	2573.3	2666.3	2686.7	2725.6	2719.3	2612.9
17.5°	2208.6	2207.5	2226.7	2274.6	2359.1	2467.3	2588.1	2622.6	2680.4	2687.8	2566.2
20°	2107.0	2104.8	2118.2	2153.4	2240.5	2363.1	2503.6	2551.0	2634.4	2660.4	2518.1
22.5°	2052.5	2052.2	2052.5	2069.2	2140.4	2254.5	2421.3	2479.1	2589.6	2638.5	2464.7
25°	2043.3	2042.2	2034.0	2032.2	2072.6	2163.7	2339.8	2403.5	2547.0	2623.3	2413.9
27.5°	2067.4	2068.9	2058.1	2040.7	2048.8	2104.1	2269.0	2337.2	2512.9	2620.4	2378.7
30°	2117.4	2116.7	2107.4	2089.2	2073.3	2081.8	2218.6	2286.8	2489.9	2633.3	2354.6
32.5°	2172.6	2176.7	2174.9	2164.9	2141.1	2107.0	2203.4	2270.1	2483.2	2664.5	2344.2
35°	2239.0	2243.4	2256.8	2264.5	2236.8	2181.9	2236.0	2293.8	2502.5	2723.0	2360.9
37.5°	2302.0	2313.5	2350.9	2383.9	2360.2	2299.0	2322.7	2363.9	2562.2	2815.3	2405.8
40°	2374.6	2384.6	2445.8	2515.8	2512.1	2448.8	2462.5	2489.9	2667.4	2947.6	2486.9
42.5°	2446.2	2466.2	2554.8	2654.1	2682.6	2626.7	2648.5	2663.0	2815.7	3122.9	2628.5
45°	2541.4	2562.9	2686.0	2805.7	2872.4	2840.9	2875.7	2881.3	3002.1	3361.6	2834.2
47.5°	2685.6	2710.0	2853.5	2979.1	3081.0	3084.4	3141.8	3139.6	3234.9	3634.8	3093.3
50°	2910.2	2945.4	3062.9	3180.4	3304.2	3373.1	3449.8	3439.1	3513.9	3925.7	3391.6
52.5°	3204.5	3220.8	3307.9	3394.6	3548.4	3703.0	3813.0	3803.4	3830.5	4224.8	3730.4
55°	3509.5	3521.7	3557.7	3605.1	3811.9	4064.0	4296.7	4281.5	4213.0	4535.4	4065.1
57.5°	3783.8	3808.6	3833.4	3853.1	4077.3	4441.3	4791.5	4792.6	4628.1	4870.4	4410.9
60°	3826.4	3848.3	4012.4	4167.4	4531.3	4944.6	5321.1	5310.0	5057.6	5234.0	4796.3
62.5°	3382.4	3431.7	3705.9	4118.1	4968.7	5865.2	5996.8	5983.1	5571.3	5682.1	5245.2
65°	2423.9	2479.9	2810.9	3430.2	4756.7	6879.6	7216.2	7031.6	6271.8	6233.3	5770.7
67.5°	1398.4	1411.7	1555.2	2052.5	3621.8	6932.6	9076.4	8818.0	7359.6	6858.5	6027.9
70°	1034.1	1033.7	1067.8	1263.1	1959.9	5658.0	9961.1	10192.7	8504.8	7064.2	5664.3
71°	935.1	936.2	974.4	1149.7	1552.2	4735.9	9773.1	10280.2	8806.5	6962.7	5401.2
72.5°	799.8	803.5	856.5	1031.1	1305.7	3266.0	8963.7	9755.4	8949.6	6712.1	4989.4
75°	606.7	615.2	688.6	869.1	1193.4	1656.3	6578.7	7789.9	7950.4	5922.7	3707.4
77.5°	432.9	442.5	525.6	730.9	1134.5	1248.3	4405.7	5682.1	5850.8	3795.6	1672.3
80°	273.5	285.0	347.7	581.5	1065.9	1185.3	2768.6	3819.3	3190.4	1214.6	425.5
82.5°	160.5	169.4	215.7	379.9	870.6	1141.5	1628.9	2117.0	1241.6	366.9	193.5
85°	93.0	97.1	134.5	242.0	632.3	1077.4	1196.8	1183.4	538.9	179.4	91.5
87.5°	43.4	48.2	79.7	126.4	351.0	780.9	945.8	817.2	335.0	84.1	43.0
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°	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0
2.5°	2922.4	2916.1	2889.8	2866.5	2842.0	2810.1	2774.9	2770.5	2749.0	2753.0	2745.6
5°	2864.6	2848.7	2785.3	2727.8	2660.0	2599.2	2533.3	2502.9	2459.1	2456.2	2445.0
7.5°	2781.9	2752.3	2654.1	2545.1	2436.2	2332.4	2229.7	2162.3	2093.3	2064.0	2061.4
10°	2688.9	2638.5	2494.0	2332.7	2175.6	2024.0	1877.2	1768.6	1670.8	1624.5	1622.6
12.5°	2600.7	2526.2	2327.9	2108.5	1893.5	1697.1	1495.9	1353.2	1230.5	1189.4	1171.9
15°	2525.8	2421.0	2166.3	1885.8	1624.8	1352.1	1123.0	972.9	859.5	820.2	812.8
17.5°	2453.2	2318.3	2000.7	1660.8	1345.4	1045.5	816.1	704.6	644.2	628.2	627.8
20°	2380.9	2212.7	1827.6	1430.6	1075.2	782.0	627.5	577.4	557.1	555.2	552.2
22.5°	2299.0	2100.7	1645.6	1199.7	839.1	614.9	533.3	513.3	510.7	517.4	517.4
25°	2222.3	1989.5	1461.0	973.6	652.7	513.0	476.3	472.2	479.2	491.1	492.2
27.5°	2150.8	1882.4	1280.9	772.8	523.0	451.8	436.6	441.4	454.0	467.7	468.1
30°	2091.8	1781.2	1106.0	608.9	441.8	406.2	403.6	413.3	427.0	437.7	440.3
32.5°	2046.2	1694.9	937.0	489.6	388.8	372.1	374.3	382.5	391.0	396.9	401.0
35°	2025.1	1620.8	780.9	412.9	355.1	345.8	348.8	353.2	356.9	361.4	364.7
37.5°	2028.8	1563.3	641.6	365.1	332.5	327.6	327.6	327.6	327.6	329.9	330.2
40°	2063.3	1530.3	528.1	334.7	317.3	312.1	308.0	304.3	301.3	302.8	302.1
42.5°	2151.5	1527.4	445.1	315.4	305.0	296.5	288.4	283.2	279.5	280.9	281.7
45°	2301.2	1564.4	389.2	301.7	293.5	280.6	270.2	264.6	262.0	266.9	267.6
47.5°	2495.1	1645.2	355.1	291.7	282.8	265.7	254.6	249.4	250.2	257.2	259.1
50°	2744.9	1776.4	338.8	285.4	275.4	253.1	241.7	237.2	239.4	249.4	251.7
52.5°	3019.2	1965.5	340.6	283.5	270.6	243.9	231.6	226.5	230.2	239.4	241.3
55°	3335.7	2192.6	371.4	286.1	263.5	237.9	223.5	214.6	217.6	226.1	227.6
57.5°	3687.4	2452.8	433.3	285.4	254.6	232.4	215.0	201.6	203.8	209.0	210.5
60°	4053.6	2767.1	529.3	287.6	250.5	225.7	203.5	186.8	186.1	190.5	191.2
62.5°	4493.1	3130.7	639.0	289.1	253.1	217.2	188.3	172.0	169.7	170.9	171.6
65°	4946.1	3393.9	597.8	283.2	261.3	210.1	174.9	157.5	153.4	152.7	153.1
67.5°	4960.1	3111.8	419.2	271.3	264.6	206.4	164.9	145.3	138.6	136.0	135.7
70°	4448.3	2528.1	326.5	258.7	251.3	200.5	155.7	135.3	125.3	121.2	120.8
71°	4198.5	2327.2	309.5	252.4	241.3	194.6	151.6	130.8	120.5	116.0	115.3
72.5°	3806.7	2086.3	288.7	242.4	222.0	179.4	143.8	124.5	113.8	108.6	107.5
75°	2731.9	1364.3	248.0	216.1	183.8	143.1	126.0	111.9	102.7	96.4	95.6
77.5°	1052.6	543.0	187.5	179.8	140.8	111.9	103.8	96.7	90.1	83.8	83.4
80°	325.4	242.8	136.8	135.3	101.9	83.4	80.8	78.9	76.3	69.7	68.2
82.5°	173.8	139.4	94.1	87.5	66.7	55.6	58.6	59.3	59.7	52.6	51.9
85°	83.0	73.8	53.0	49.7	38.9	31.1	36.0	38.9	39.3	32.2	30.0
87.5°	39.7	38.5	24.8	18.9	14.5	10.4	12.6	15.6	17.0	12.2	10.7
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)