

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: P323308

Luminaire Tested: **GAN-SA4A-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11447 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

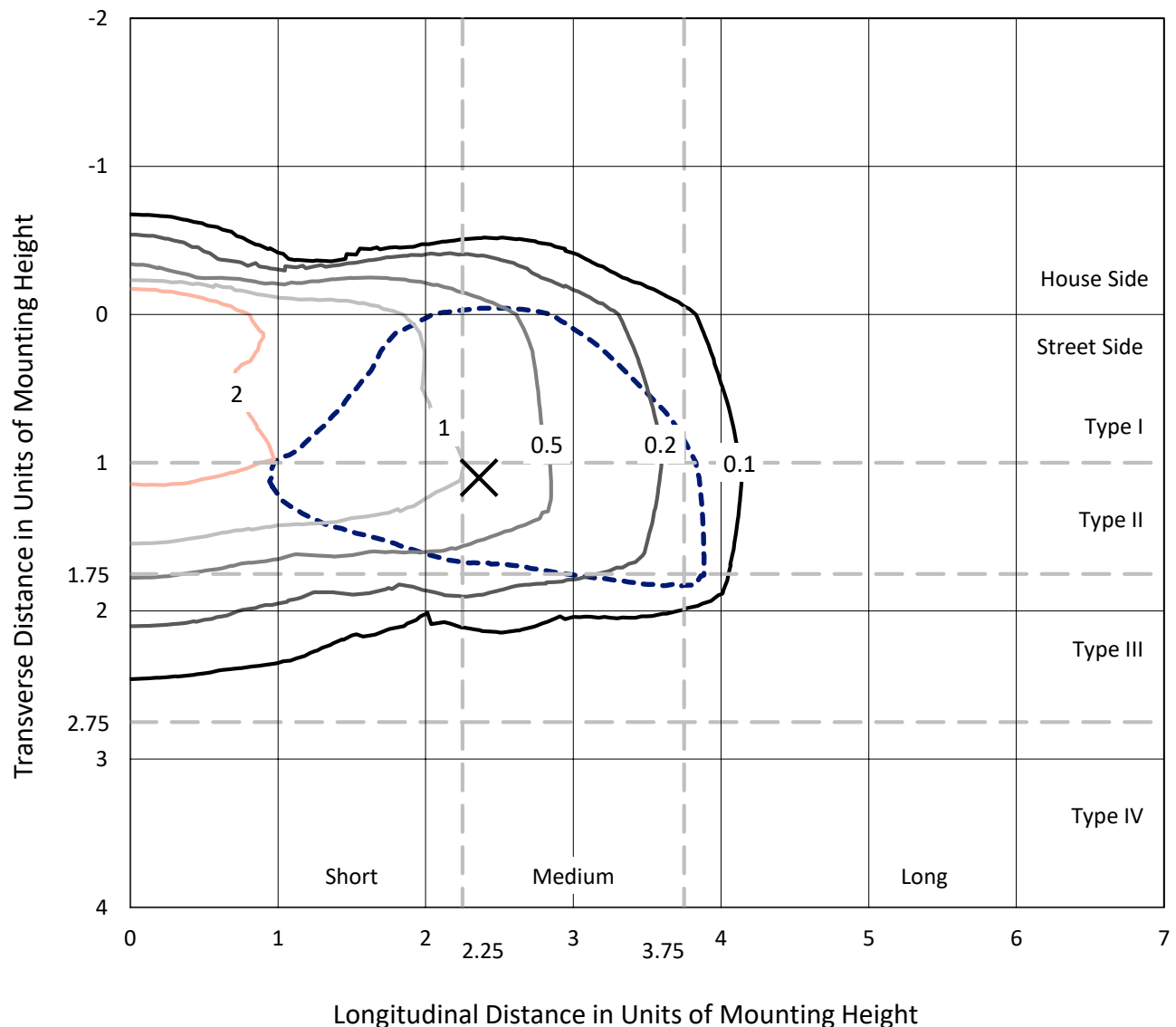
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

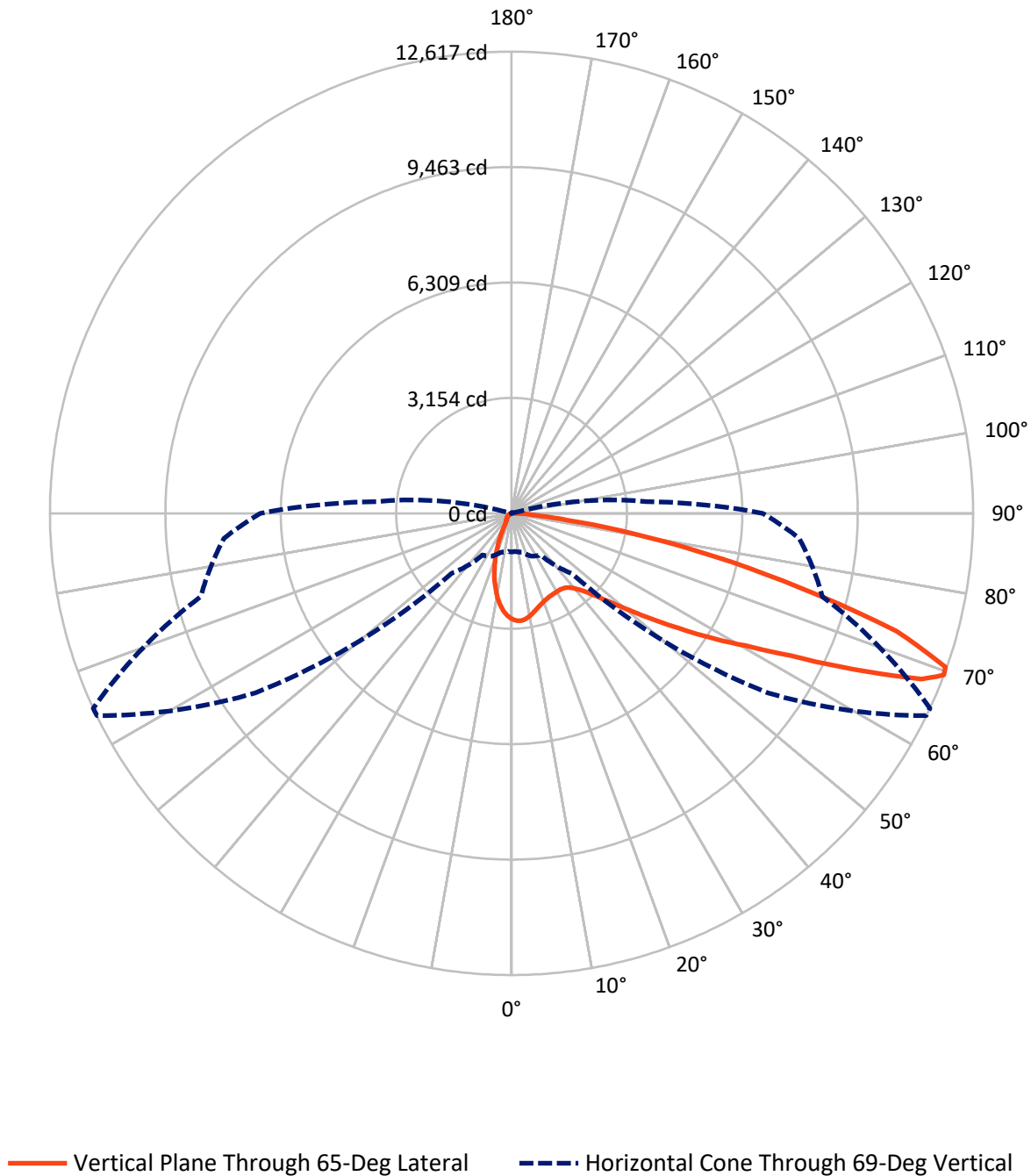
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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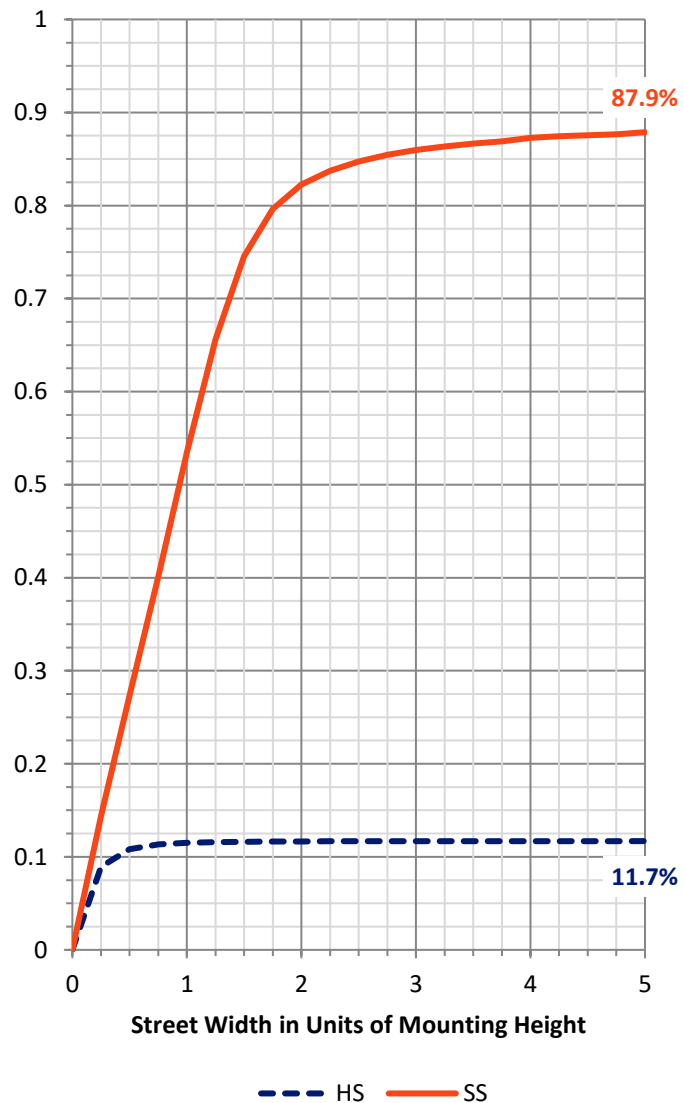
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1349.3	0.0	1349.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10097.7	0.0	10097.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	11447.0	0.0	11447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	2.1
10°-20°	529.5	4.6
20°-30°	733.4	6.4
30°-40°	1022.6	8.9
40°-50°	1589.4	13.9
50°-60°	2551.6	22.3
60°-70°	2886.3	25.2
70°-80°	1695.1	14.8
80°-90°	197.2	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°	11447.0	100.0
0°-180°	11447.0	100.0

Coefficient of Utilization



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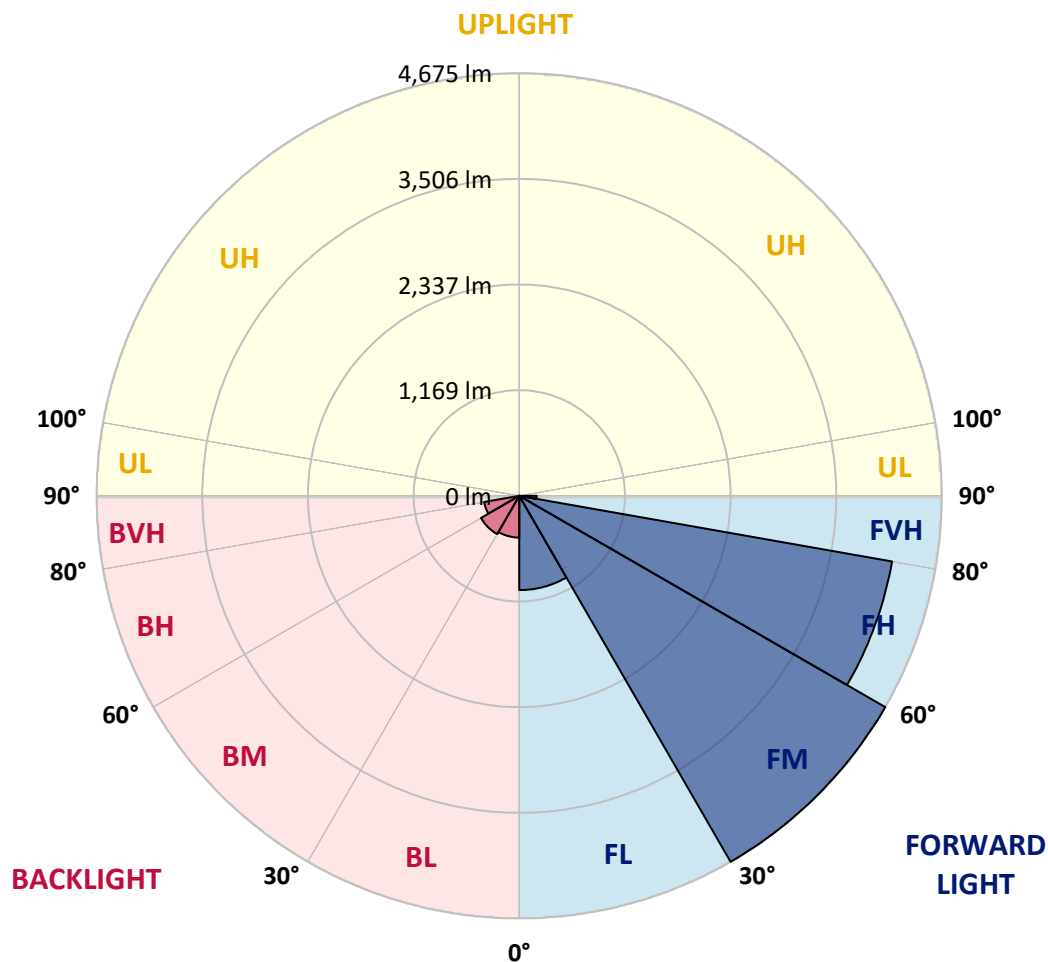
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.1	9.1			
FM	(30°-60°)	4674.6	40.8			
FH	(60°-80°)	4187.2	36.6			G2/5000
FVH	(80°-90°)	192.8	1.7			G2/225
BL	(0°-30°)	461.7	4.0	B1/500		
BM	(30°-60°)	489.0	4.3	B1/1000		
BH	(60°-80°)	394.2	3.4	B1/500		G1/500
BVH	(80°-90°)	4.4	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°	64°	65°	75°	85°
0°	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7
2.5°	2918.3	2911.1	2916.9	2929.5	2935.8	2935.8	2940.6	2934.8	2936.8	2922.7	2902.4
5°	2735.7	2724.6	2740.6	2775.9	2819.5	2856.8	2912.1	2941.1	2944.0	2944.5	2920.8
7.5°	2539.1	2528.9	2552.6	2594.3	2650.5	2719.8	2816.1	2900.4	2905.3	2950.8	2933.4
10°	2379.2	2372.0	2399.6	2444.1	2510.0	2587.5	2705.7	2822.9	2837.0	2937.7	2931.4
12.5°	2252.3	2246.5	2272.7	2324.0	2391.4	2477.1	2600.6	2736.7	2755.6	2908.2	2921.7
15°	2159.8	2158.9	2180.6	2230.1	2304.6	2384.6	2511.0	2656.8	2678.6	2876.2	2920.3
17.5°	2111.4	2112.8	2128.8	2171.0	2234.9	2314.3	2435.4	2589.5	2613.2	2847.6	2927.6
20°	2106.5	2108.0	2116.7	2140.4	2192.3	2262.5	2373.9	2532.8	2557.5	2826.3	2939.2
22.5°	2149.2	2148.2	2150.6	2148.2	2177.3	2230.5	2333.2	2489.2	2517.8	2812.3	2948.4
25°	2231.0	2229.6	2228.6	2210.7	2191.3	2219.9	2316.3	2464.5	2491.6	2802.1	2953.7
27.5°	2344.9	2343.9	2342.4	2312.9	2254.8	2236.8	2318.2	2455.3	2478.1	2793.9	2952.7
30°	2494.5	2501.3	2499.4	2458.2	2367.6	2288.7	2338.6	2450.4	2470.3	2777.9	2942.6
32.5°	2670.3	2683.9	2694.6	2650.5	2537.1	2391.4	2385.5	2455.8	2470.3	2765.8	2924.2
35°	2853.0	2870.4	2909.6	2894.1	2744.9	2545.9	2466.4	2487.7	2499.9	2772.6	2915.4
37.5°	3032.7	3053.5	3138.7	3183.8	3017.2	2750.3	2592.4	2566.7	2573.0	2813.7	2925.1
40°	3241.4	3272.9	3402.2	3474.9	3342.2	3023.9	2780.8	2702.3	2704.7	2904.3	2970.2
42.5°	3515.6	3548.0	3688.0	3801.8	3708.4	3369.8	3036.5	2909.6	2907.2	3073.8	3076.3
45°	3849.8	3883.7	4028.5	4155.0	4112.8	3779.6	3364.0	3212.4	3209.5	3341.2	3277.3
47.5°	4228.6	4262.0	4391.3	4521.6	4567.2	4258.1	3781.0	3625.5	3618.8	3712.7	3587.8
50°	4553.6	4575.4	4694.5	4869.9	5075.3	4846.2	4299.8	4150.1	4142.8	4206.3	4043.5
52.5°	4671.8	4684.4	4805.5	5051.0	5563.5	5642.5	4981.3	4788.5	4783.2	4810.8	4650.5
55°	4432.5	4455.3	4604.0	4968.2	5828.0	6542.4	5841.5	5579.0	5538.8	5479.2	5285.0
57.5°	3780.5	3816.9	3976.7	4461.1	5704.5	7256.4	7105.8	6473.2	6414.1	6049.8	5800.9
60°	2832.6	2877.2	3009.9	3532.5	5045.2	7510.7	8487.2	7469.5	7336.3	6504.2	6275.1
62.5°	1943.8	1966.1	2056.2	2396.7	3715.6	7094.1	9642.9	8804.0	8560.8	6998.2	6788.0
65°	1484.6	1492.4	1529.2	1646.4	2212.6	5762.6	10102.6	10564.7	10270.7	7589.2	7320.3
67.5°	1196.4	1190.1	1241.0	1408.6	1481.7	3515.6	9566.4	12230.4	12092.9	8379.2	7856.0
69°	1055.0	1046.2	1098.1	1292.8	1391.6	2324.0	8552.1	12608.7	12617.4	8796.2	7892.9
70°	949.4	955.2	1006.5	1224.0	1361.1	1824.1	7583.3	12512.3	12581.1	8952.2	7672.0
72.5°	634.0	649.5	752.7	1016.2	1308.8	1380.5	4578.8	10737.1	11001.6	8601.0	6582.1
75°	357.5	369.1	491.6	766.3	1233.2	1314.6	2418.5	7910.3	8166.0	7192.5	5075.7
77.5°	175.3	181.6	278.0	494.5	1031.2	1252.6	1371.7	5373.2	5665.2	4694.5	2870.9
80°	74.1	77.5	139.0	305.2	737.2	1195.4	1018.6	3306.8	3343.1	1839.2	764.8
82.5°	28.6	29.5	58.6	190.4	468.4	931.9	852.0	1567.9	1530.1	346.3	174.4
85°	3.4	3.9	21.3	114.3	260.6	479.5	692.2	675.7	625.3	68.8	89.6
87.5°	0.0	0.0	1.5	34.9	77.5	224.7	359.9	280.5	252.8	22.3	46.5
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°	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7
2.5°	2885.4	2880.6	2854.4	2816.6	2780.8	2736.2	2693.6	2667.9	2647.6	2634.0	2650.0
5°	2893.2	2871.8	2792.4	2690.7	2590.9	2478.5	2373.9	2285.3	2250.4	2211.6	2229.1
7.5°	2890.7	2850.5	2707.6	2526.5	2343.4	2154.0	1974.8	1836.7	1765.1	1694.8	1712.7
10°	2878.6	2810.8	2594.3	2326.0	2051.8	1779.6	1525.3	1332.0	1224.0	1126.2	1140.2
12.5°	2852.0	2757.5	2460.6	2096.4	1729.7	1370.8	1072.9	825.4	692.7	634.0	641.3
15°	2836.0	2705.7	2319.2	1863.9	1385.8	954.7	655.8	487.8	427.2	407.8	410.3
17.5°	2828.3	2655.8	2172.9	1597.9	1034.1	607.9	423.8	373.9	360.9	357.5	358.4
20°	2820.5	2605.4	2022.3	1334.9	712.5	408.8	348.3	333.7	328.9	324.5	325.5
22.5°	2807.4	2557.0	1860.5	1068.5	480.5	331.8	313.9	299.8	289.7	284.3	285.3
25°	2791.4	2506.1	1695.3	795.8	350.7	296.0	279.0	259.1	247.0	237.3	237.8
27.5°	2765.8	2443.7	1524.8	579.3	294.5	265.0	242.2	220.4	200.0	188.9	188.9
30°	2729.9	2372.9	1335.4	414.6	264.0	234.4	206.8	179.7	157.9	147.7	146.8
32.5°	2690.2	2299.3	1144.1	314.4	239.8	205.9	174.4	145.8	126.4	118.2	117.7
35°	2656.3	2219.9	953.2	263.5	215.5	178.2	143.9	119.6	104.1	97.4	96.9
37.5°	2634.5	2140.4	767.2	235.4	193.7	152.6	120.6	98.8	87.7	82.3	81.9
40°	2631.1	2081.4	597.2	214.1	173.4	129.8	100.7	83.8	73.6	67.8	67.3
42.5°	2675.2	2047.4	458.2	196.2	152.6	110.0	85.7	71.7	61.0	55.2	54.7
45°	2791.0	2058.1	352.6	180.2	131.7	93.0	72.7	59.6	49.9	45.5	44.6
47.5°	3002.1	2131.7	280.5	164.2	111.9	79.0	62.0	49.4	41.2	36.8	36.3
50°	3378.0	2304.6	234.4	146.8	93.5	67.3	51.3	40.2	33.4	29.5	29.1
52.5°	3876.9	2612.7	209.2	129.8	77.5	57.2	42.1	32.0	26.2	23.2	22.8
55°	4427.2	2985.7	192.8	111.4	63.5	47.5	33.4	25.2	20.3	17.9	17.0
57.5°	4964.3	3308.8	177.3	93.5	52.8	38.7	26.6	19.9	16.0	13.6	13.1
60°	5457.9	3605.7	159.4	75.1	43.1	30.5	20.8	15.5	12.6	10.2	10.2
62.5°	5986.4	3835.3	134.7	58.6	35.4	23.2	17.0	14.0	10.2	8.7	8.2
65°	6546.3	4005.8	105.6	45.5	27.6	17.4	14.0	14.5	8.2	6.3	5.8
67.5°	6960.0	3971.9	78.0	35.8	21.3	13.6	13.6	15.5	7.3	4.8	4.4
69°	6868.9	3696.3	65.4	31.0	18.4	11.6	12.6	15.5	6.8	4.4	3.9
70°	6604.9	3391.1	57.6	27.6	16.5	10.7	12.1	15.0	6.3	4.4	3.9
72.5°	5500.5	2554.1	45.0	20.8	13.1	8.7	10.2	13.1	6.3	4.4	3.4
75°	4137.5	1634.8	34.4	15.0	9.7	6.8	7.7	9.7	6.3	3.9	3.4
77.5°	2251.4	589.5	24.7	10.2	6.8	5.3	5.3	7.3	5.8	2.9	1.9
80°	578.8	148.2	15.5	6.8	5.3	3.9	3.4	4.8	3.4	0.5	0.0
82.5°	142.9	33.4	8.2	4.8	3.9	1.5	1.5	2.4	1.5	0.0	0.0
85°	78.5	16.5	5.3	3.4	1.9	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	40.2	4.8	1.5	1.0	0.5	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)