

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: P317827

Luminaire Tested: **GAN-SA3A-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14547 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

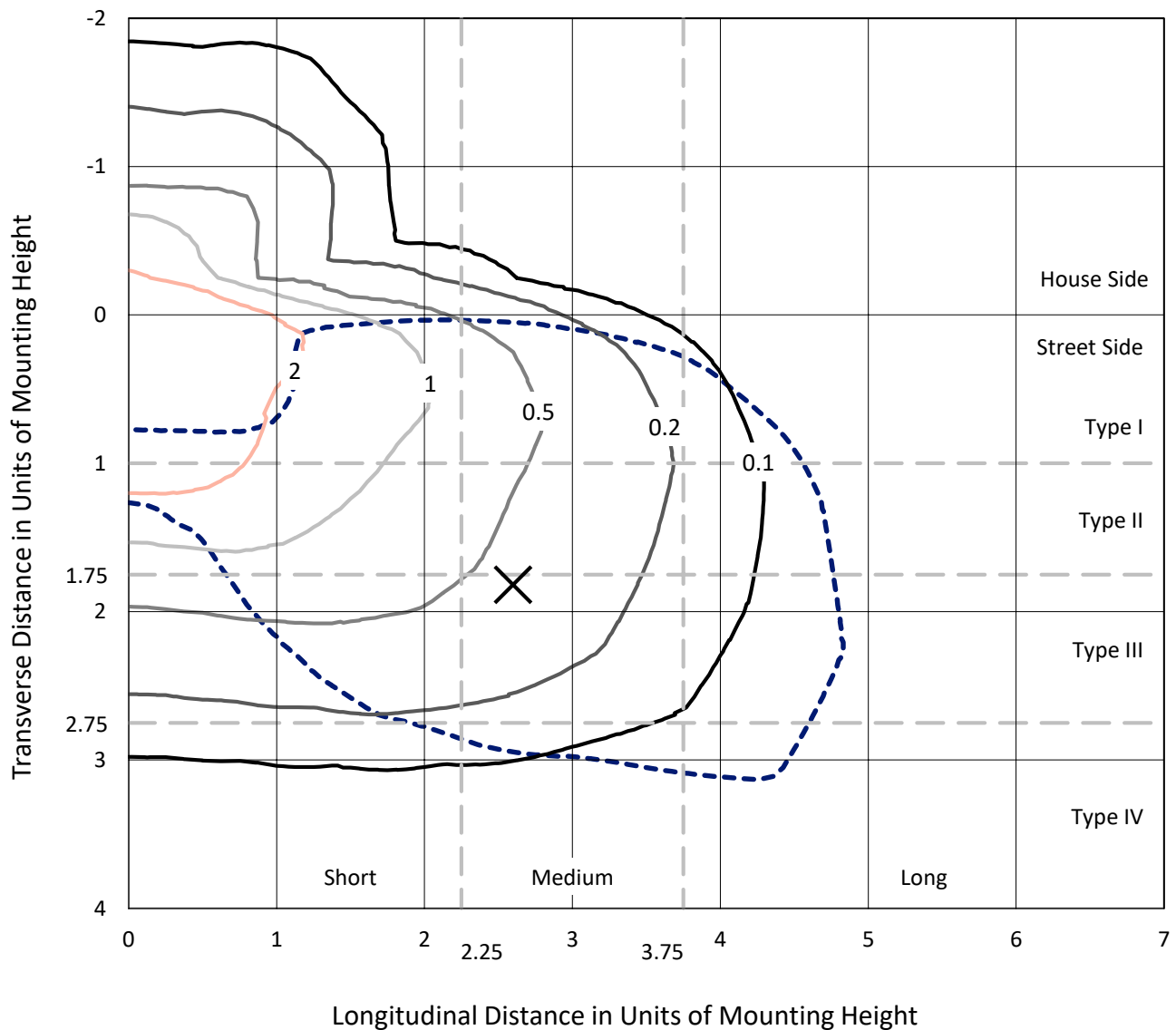
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

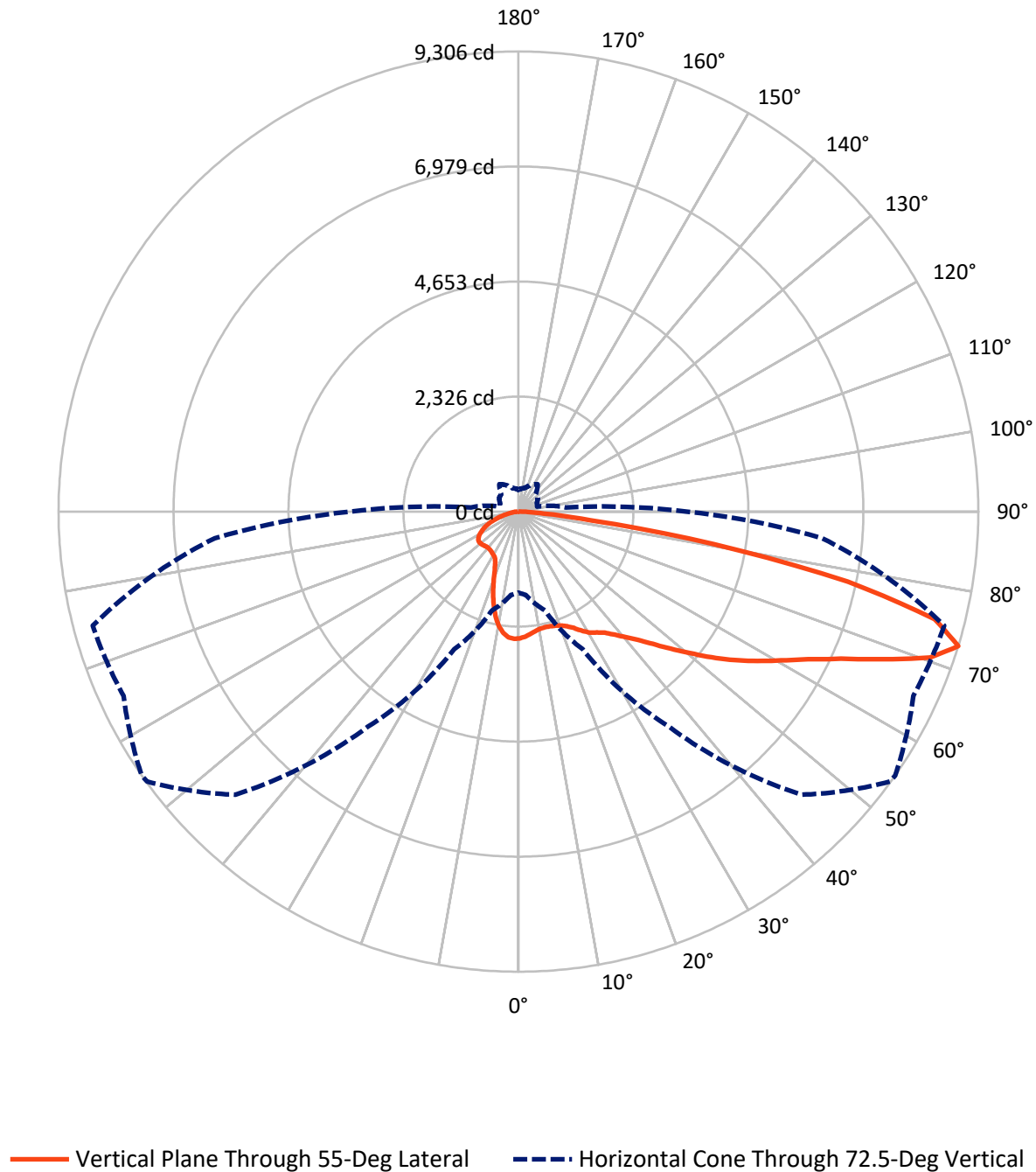
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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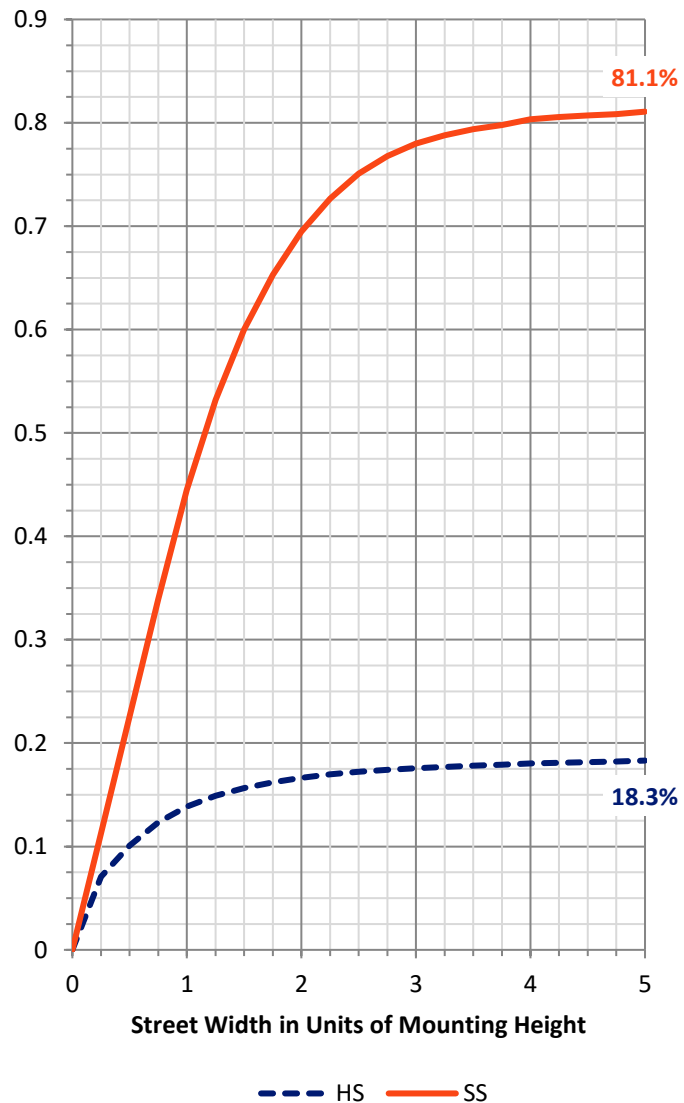
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2703.8	0.0	2703.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11843.2	0.0	11843.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	14547.0	0.0	14547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	1.6
10°-20°	618.1	4.2
20°-30°	1019.1	7.0
30°-40°	1507.6	10.4
40°-50°	2104.2	14.5
50°-60°	2739.8	18.8
60°-70°	3367.1	23.1
70°-80°	2639.4	18.1
80°-90°	319.4	2.2
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°	14547.0	100.0
0°-180°	14547.0	100.0

Coefficient of Utilization



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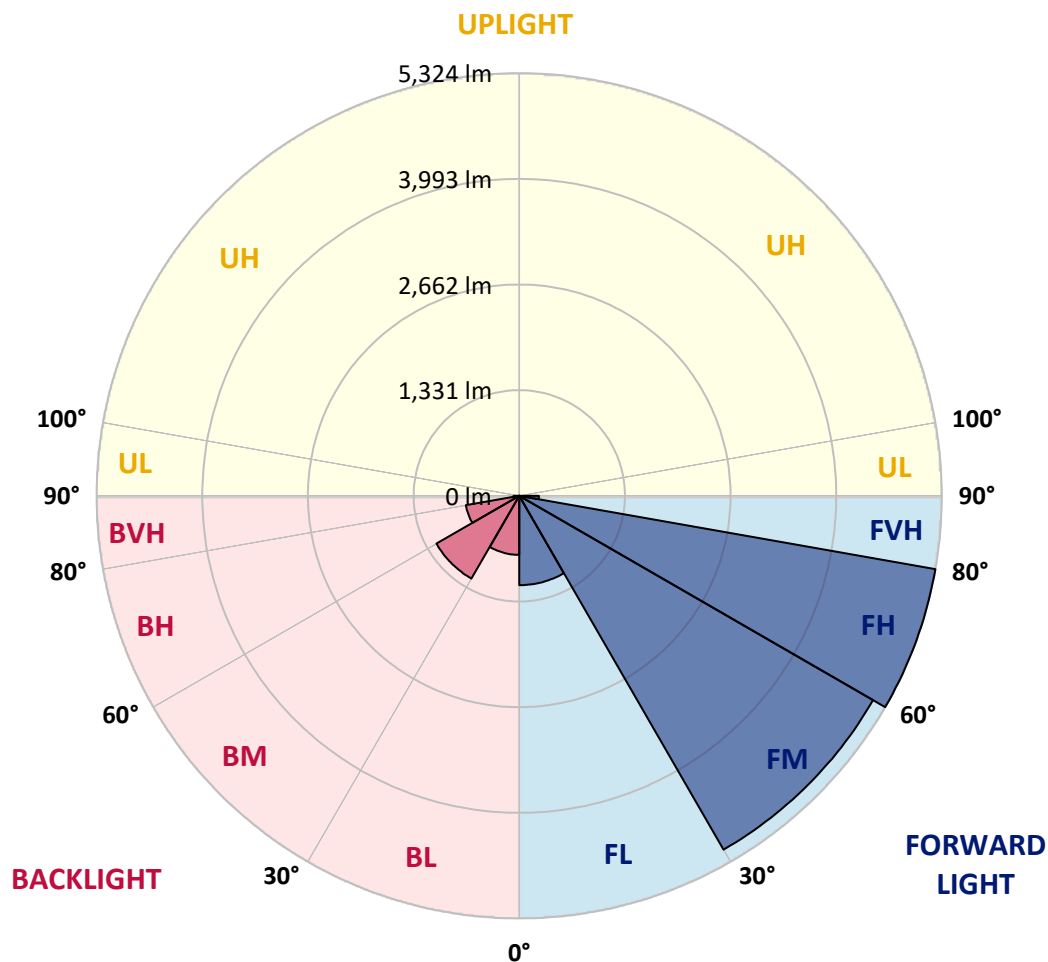
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.5	7.7			
FM	(30°-60°)	5147.0	35.4			
FH	(60°-80°)	5323.7	36.6			G3/7500
FVH	(80°-90°)	247.0	1.7			G3/500
BL	(0°-30°)	743.9	5.1	B2/1000		
BM	(30°-60°)	1204.6	8.3	B2/2500		
BH	(60°-80°)	682.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	72.5	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8
2.5°	2482.2	2476.4	2483.7	2494.0	2505.3	2520.6	2529.4	2533.3	2548.6	2554.5	2567.3
5°	2367.3	2364.3	2376.6	2394.3	2419.4	2454.7	2483.2	2488.6	2528.9	2557.4	2583.5
7.5°	2283.7	2283.7	2298.0	2319.1	2347.1	2394.8	2435.1	2442.5	2510.7	2572.2	2620.3
10°	2217.4	2219.9	2236.6	2261.6	2294.6	2345.2	2398.7	2407.1	2505.8	2606.6	2683.2
12.5°	2173.2	2179.1	2194.3	2216.9	2257.7	2319.1	2386.9	2398.2	2516.2	2655.7	2758.9
15°	2201.2	2211.0	2212.5	2221.8	2244.4	2311.3	2393.8	2405.6	2538.3	2705.8	2844.9
17.5°	2324.0	2327.5	2312.2	2292.6	2281.8	2324.5	2414.4	2426.7	2564.8	2755.4	2927.4
20°	2510.7	2508.8	2475.9	2422.8	2367.8	2374.6	2448.3	2461.1	2600.7	2799.2	3009.9
22.5°	2746.6	2739.7	2689.1	2591.3	2497.5	2458.2	2507.8	2518.6	2654.7	2861.6	3098.4
25°	3032.6	3017.3	2950.5	2819.3	2681.2	2580.0	2597.2	2607.5	2733.3	2931.3	3179.5
27.5°	3334.2	3319.0	3234.0	3075.3	2891.5	2733.8	2720.5	2729.4	2822.7	2982.9	3239.4
30°	3649.7	3633.5	3555.8	3378.0	3114.6	2893.0	2835.5	2839.0	2885.6	3010.9	3288.5
32.5°	3966.6	3951.4	3864.4	3658.0	3356.8	3064.0	2918.6	2914.1	2923.5	3039.9	3344.1
35°	4287.9	4293.8	4192.1	3963.6	3625.1	3254.1	3016.8	3007.5	2986.9	3099.4	3422.7
37.5°	4631.9	4627.9	4496.3	4257.5	3905.7	3460.5	3157.8	3156.4	3085.1	3211.9	3546.0
40°	4861.8	4864.3	4784.2	4558.2	4189.2	3689.0	3338.7	3335.2	3241.9	3380.4	3707.7
42.5°	4951.7	4967.9	4988.6	4845.1	4485.9	3953.8	3554.4	3549.4	3460.5	3622.2	3897.8
45°	4958.1	4990.5	5118.3	5100.1	4786.6	4257.0	3830.0	3816.2	3752.4	3943.5	4124.8
47.5°	4903.1	4936.5	5148.8	5251.9	5055.4	4576.8	4152.3	4141.5	4086.5	4345.4	4370.5
50°	4782.7	4814.6	5085.9	5326.1	5276.5	4884.4	4523.8	4495.3	4465.8	4809.7	4651.5
52.5°	4557.2	4618.6	5001.8	5343.8	5408.7	5157.6	4914.4	4895.7	4911.9	5299.6	4933.1
55°	4023.1	4091.9	4785.2	5329.1	5506.4	5387.1	5305.0	5304.0	5388.0	5813.5	5235.2
57.5°	3723.9	3772.5	4343.9	5304.0	5622.4	5615.0	5691.7	5701.0	5864.6	6373.2	5551.7
60°	3554.8	3605.9	4120.4	5211.2	5802.2	5909.8	6086.2	6104.9	6349.1	6992.8	5932.4
62.5°	3401.1	3457.1	3981.8	5022.0	6014.0	6331.4	6558.9	6575.6	6862.1	7629.5	6300.5
65°	3138.2	3201.6	3778.9	4897.7	6206.6	6881.2	7159.8	7171.1	7451.2	8296.8	6582.0
67.5°	2766.7	2824.7	3396.1	4623.0	6349.1	7548.9	7958.7	7965.1	8035.4	8768.0	6726.0
70°	2332.9	2355.0	2850.8	4056.0	6180.6	8173.4	8834.3	8835.8	8568.0	9069.6	6702.4
72.5°	1639.1	1691.2	2069.5	3070.4	5311.4	8097.3	9288.8	9305.5	8815.6	8917.3	6166.8
75°	1005.3	1060.3	1298.1	1860.7	3369.6	6368.3	8582.2	8698.2	8351.3	7950.9	5037.7
77.5°	672.2	692.8	847.1	1084.9	1526.6	3663.9	6598.2	6816.4	6937.7	5798.3	3221.7
80°	374.9	414.2	561.6	674.1	679.0	1455.8	3956.3	4007.4	3860.0	2308.8	994.0
82.5°	198.5	220.1	374.9	396.0	370.5	487.4	1474.5	1476.0	1233.3	619.1	295.3
85°	153.8	172.0	257.0	241.7	189.2	216.2	486.4	513.0	419.6	253.5	96.3
87.5°	76.6	95.3	174.4	153.3	74.2	61.9	173.9	185.7	165.6	99.3	34.9
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°	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8
2.5°	2572.2	2576.6	2582.0	2576.1	2574.1	2566.3	2553.0	2550.1	2543.2	2543.7	2547.6
5°	2594.8	2602.1	2599.2	2576.6	2549.6	2511.7	2472.4	2439.0	2416.9	2415.4	2414.0
7.5°	2638.0	2642.9	2619.8	2555.5	2479.8	2392.3	2309.8	2237.6	2193.8	2183.0	2180.6
10°	2705.8	2704.8	2641.4	2511.7	2360.9	2204.6	2072.0	1971.7	1913.3	1896.1	1891.7
12.5°	2781.5	2770.2	2648.8	2432.1	2192.9	1976.2	1808.1	1696.6	1635.7	1616.0	1611.1
15°	2859.6	2831.6	2630.6	2313.2	1986.5	1730.0	1553.6	1450.4	1417.5	1406.7	1404.7
17.5°	2932.3	2878.3	2578.6	2152.1	1751.1	1484.8	1347.3	1306.0	1313.8	1328.1	1328.6
20°	3003.6	2909.7	2495.0	1948.7	1503.0	1282.9	1236.2	1266.7	1304.0	1333.0	1336.9
22.5°	3073.8	2931.8	2387.4	1713.8	1280.9	1169.4	1202.3	1257.8	1300.6	1332.0	1337.4
25°	3132.8	2937.2	2239.0	1463.2	1126.6	1126.6	1186.1	1238.7	1280.9	1311.9	1317.3
27.5°	3154.4	2900.9	2029.7	1231.3	1049.0	1107.0	1163.5	1207.2	1243.1	1276.0	1281.9
30°	3162.8	2833.6	1788.0	1045.1	1017.1	1085.9	1133.0	1170.4	1204.3	1235.2	1240.6
32.5°	3164.2	2752.5	1531.5	939.4	995.0	1063.8	1095.2	1128.1	1164.5	1176.8	1178.7
35°	3173.6	2656.7	1261.3	885.4	974.3	1043.1	1068.2	1091.8	1032.8	1037.2	1041.1
37.5°	3200.6	2561.8	1035.3	854.9	961.1	1032.3	1062.3	976.8	930.6	919.8	918.3
40°	3251.2	2460.6	867.7	830.4	956.1	1037.7	1024.4	911.9	832.3	772.9	764.0
42.5°	3321.5	2351.6	760.6	814.2	959.6	1063.8	971.9	849.5	717.4	679.0	674.1
45°	3400.6	2237.1	702.6	802.8	971.4	1083.9	961.1	766.5	663.8	634.8	632.4
47.5°	3477.2	2097.0	672.6	797.9	987.6	1067.7	915.4	740.9	638.3	623.0	624.5
50°	3565.2	1970.8	654.5	792.5	1001.8	1057.4	863.8	727.7	628.4	647.1	666.7
52.5°	3639.4	1840.1	638.3	781.7	1007.2	1039.2	850.5	730.1	628.4	664.3	683.0
55°	3727.3	1741.3	619.6	759.1	996.9	987.6	841.2	744.9	635.8	613.2	615.2
57.5°	3840.8	1708.9	598.9	723.7	962.5	912.4	836.8	759.1	631.4	617.1	622.0
60°	3998.0	1743.3	590.6	677.6	909.0	853.5	837.2	751.8	600.4	575.9	576.3
62.5°	4147.9	1781.6	590.1	648.6	843.1	800.9	825.9	727.7	584.7	570.4	575.9
65°	4197.0	1742.8	566.5	616.1	768.9	738.0	805.3	702.1	572.9	551.3	550.3
67.5°	4131.2	1622.4	518.9	563.6	683.9	664.8	778.3	671.7	554.2	536.5	533.6
70°	3935.6	1353.6	459.9	494.3	587.2	582.2	735.5	636.3	529.2	513.9	501.2
72.5°	3409.4	964.5	387.7	411.3	478.1	493.8	676.6	590.1	493.8	460.9	441.2
75°	2800.1	713.9	318.4	323.3	363.1	405.8	595.5	536.1	452.0	396.0	380.8
77.5°	1714.8	436.8	253.5	255.5	260.4	323.8	490.4	475.6	399.0	330.2	319.4
80°	555.2	238.3	183.3	192.6	177.9	237.3	379.3	404.9	342.5	276.1	264.3
82.5°	211.3	139.0	123.8	130.2	123.3	159.2	276.6	324.3	280.6	227.0	184.7
85°	102.2	78.6	73.2	82.1	76.2	81.6	176.9	238.8	212.8	147.9	137.6
87.5°	36.4	34.9	28.0	37.8	32.4	29.0	54.0	120.4	140.5	101.7	90.9
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)