

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: P318327

Luminaire Tested: **GAN-SA3C-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18062 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

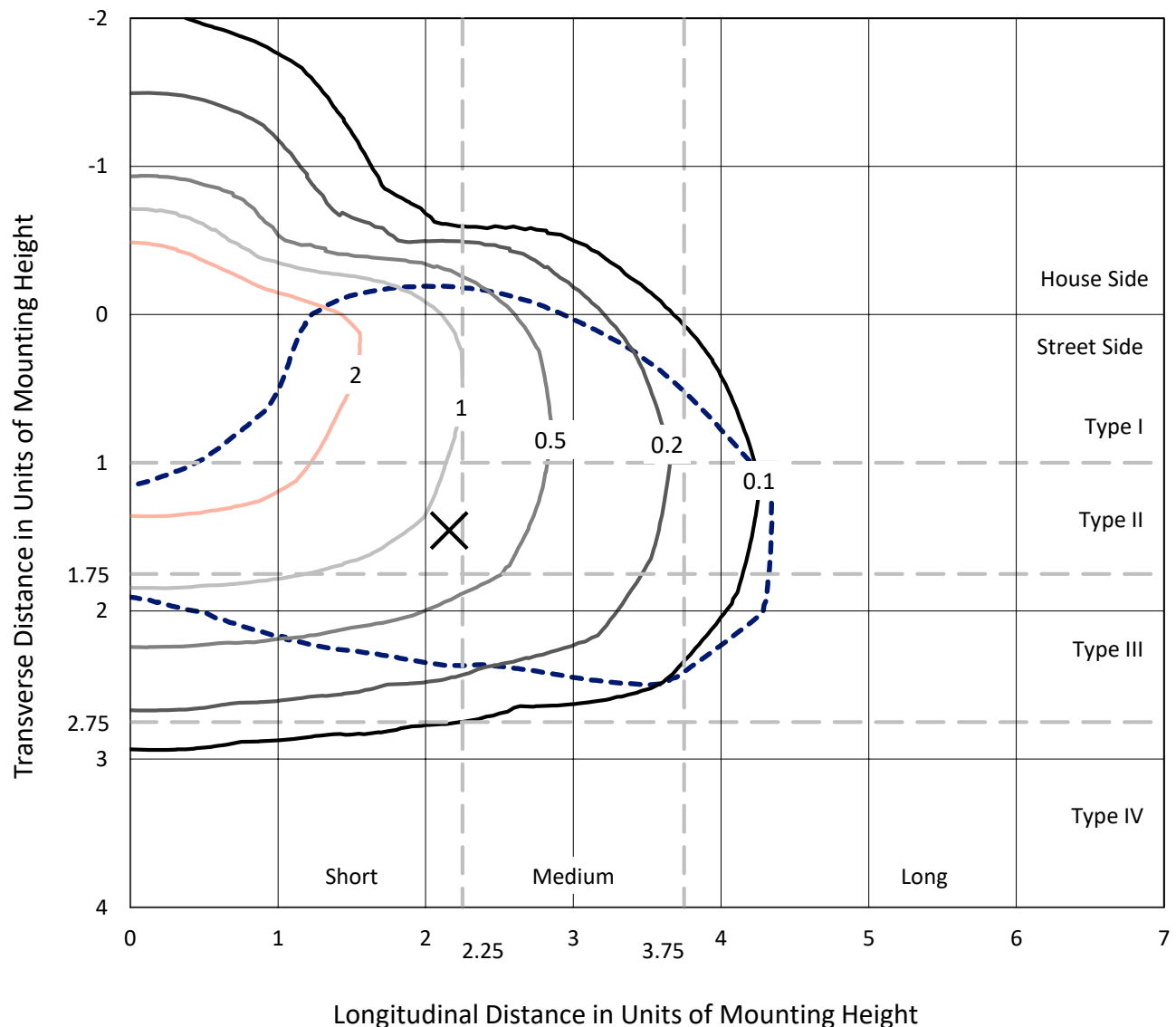
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

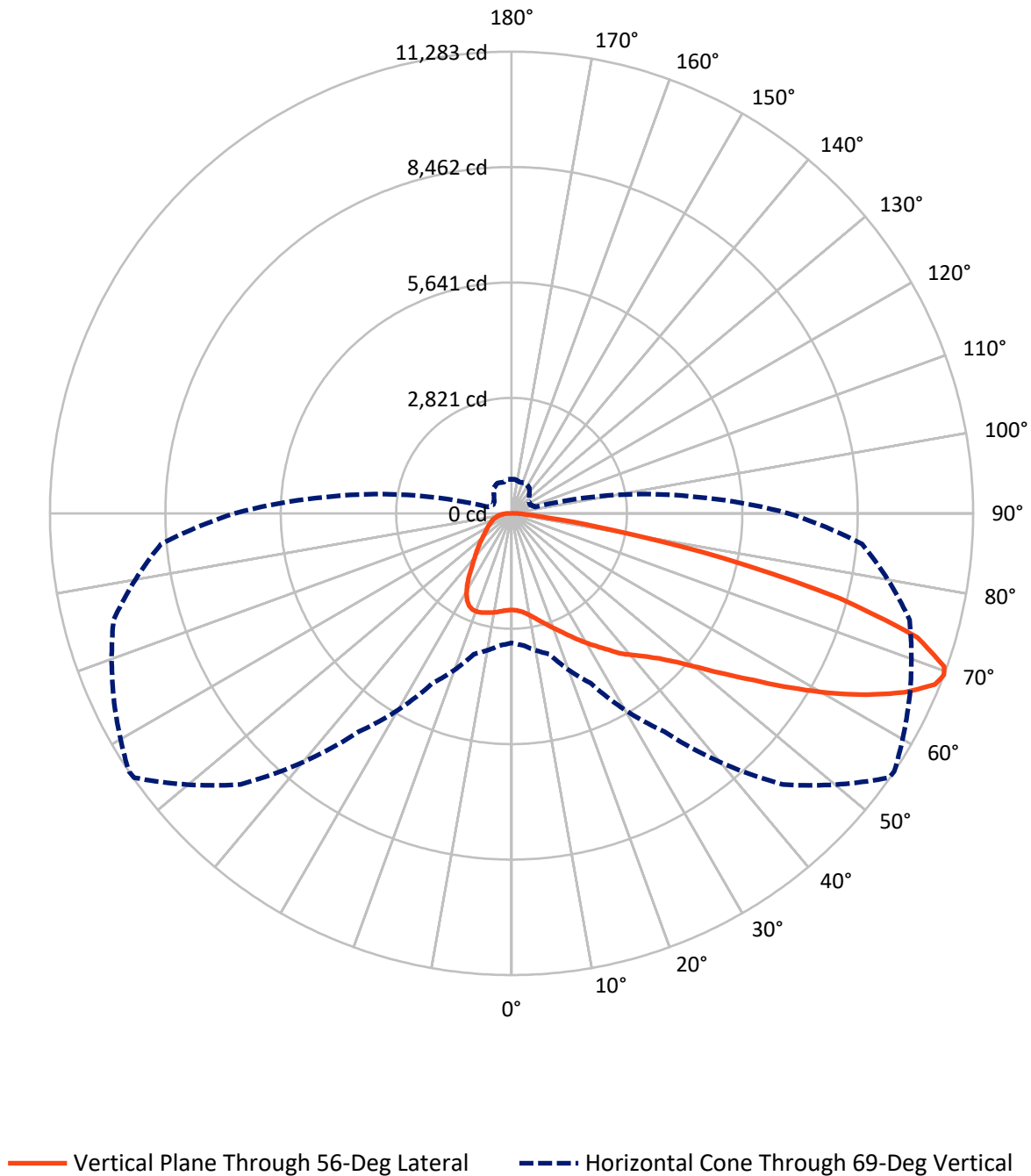
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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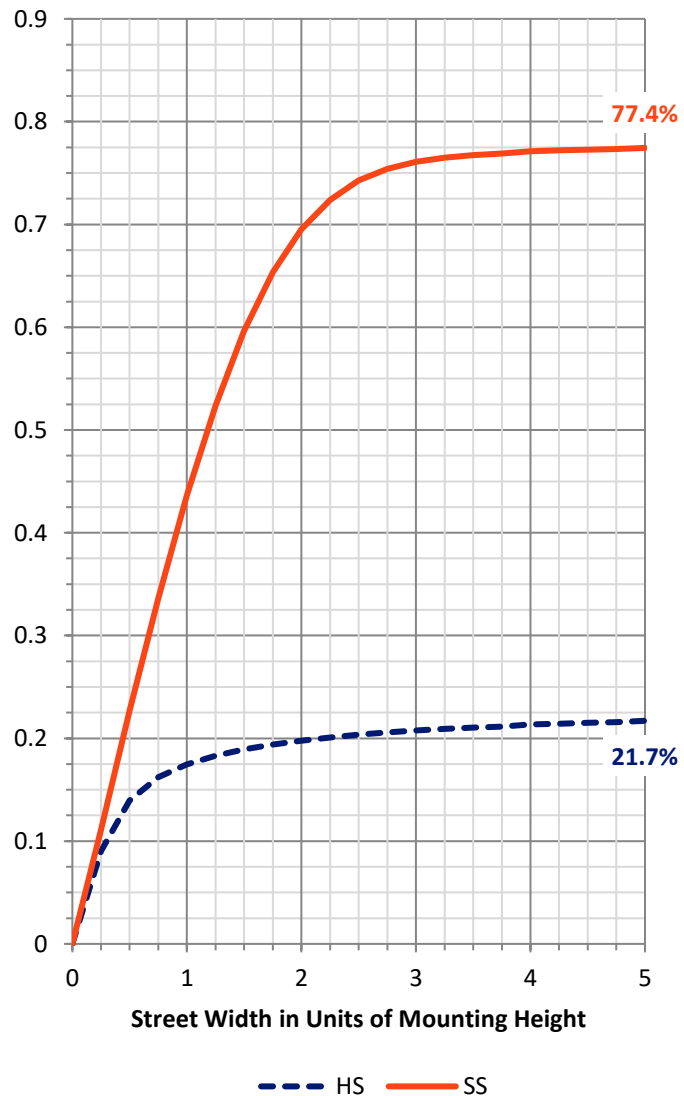
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4022.4	0.0	4022.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14039.6	0.0	14039.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	18062.0	0.0	18062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.9	1.3
10°-20°	745.8	4.1
20°-30°	1301.8	7.2
30°-40°	1870.0	10.4
40°-50°	2588.0	14.3
50°-60°	3791.8	21.0
60°-70°	4622.9	25.6
70°-80°	2555.8	14.2
80°-90°	354.0	2.0
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°	18062.0	100.0
0°-180°	18062.0	100.0

Coefficient of Utilization



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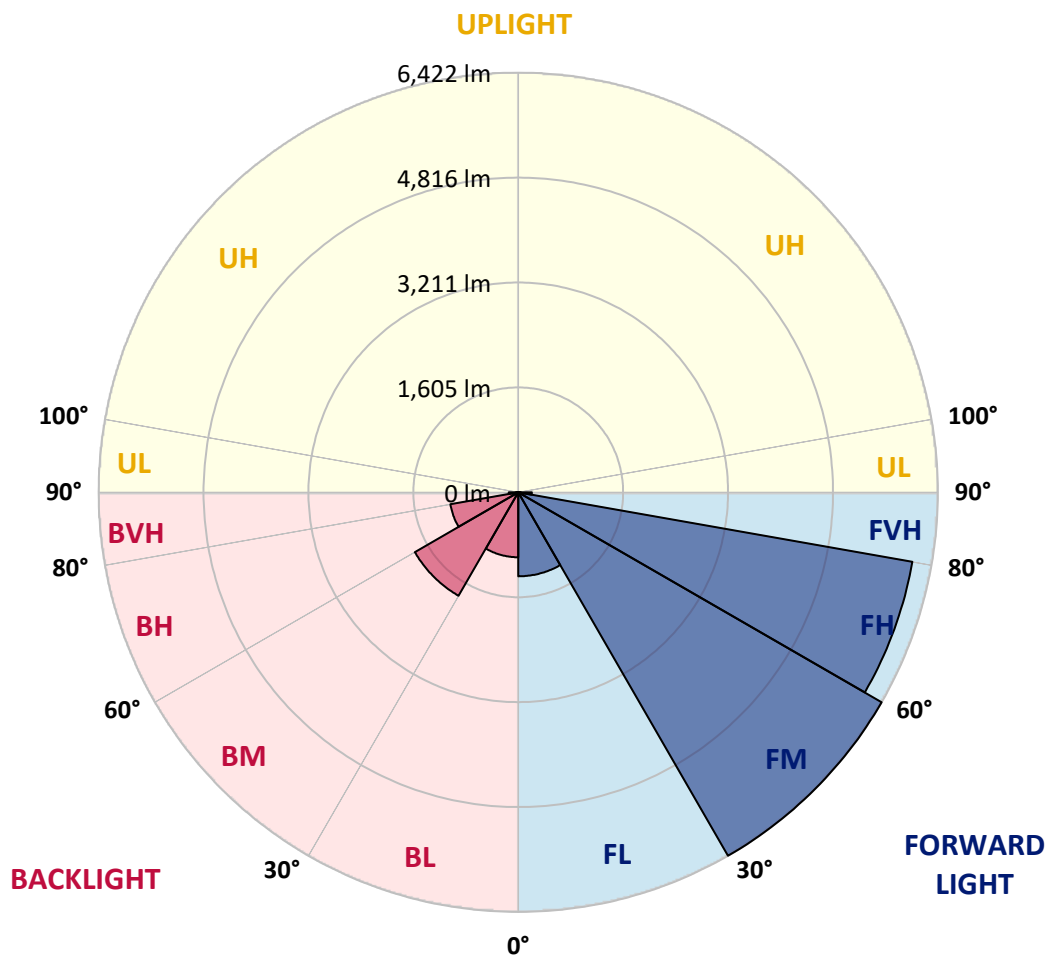
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1285.5	7.1			
FM	(30°-60°)	6421.7	35.6			
FH	(60°-80°)	6123.9	33.9			G3/7500
FVH	(80°-90°)	208.5	1.2			G2/225
BL	(0°-30°)	994.0	5.5	B2/1000		
BM	(30°-60°)	1828.1	10.1	B2/2500		
BH	(60°-80°)	1054.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	145.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3
2.5°	2376.3	2378.8	2376.9	2381.9	2376.3	2380.0	2376.9	2376.9	2375.0	2369.4	2363.2
5°	2413.6	2418.6	2415.5	2420.4	2413.6	2414.8	2409.2	2409.2	2403.6	2391.8	2379.4
7.5°	2472.1	2477.7	2475.2	2480.2	2470.8	2470.8	2463.4	2462.8	2451.6	2432.3	2418.0
10°	2541.8	2549.2	2546.8	2554.2	2546.8	2549.2	2541.8	2541.8	2526.8	2499.5	2481.4
12.5°	2643.2	2652.5	2645.7	2645.1	2642.0	2646.9	2640.7	2639.5	2625.8	2588.4	2563.6
15°	2778.8	2788.8	2774.5	2773.2	2755.8	2754.0	2754.0	2752.1	2743.4	2698.6	2657.5
17.5°	2935.0	2938.1	2925.7	2905.8	2883.4	2869.1	2867.2	2872.2	2872.2	2819.9	2754.6
20°	3088.1	3093.7	3083.7	3061.3	3032.7	3011.6	2996.6	3006.6	3006.0	2943.7	2851.0
22.5°	3254.8	3267.9	3253.0	3224.4	3190.8	3167.1	3141.0	3149.7	3150.3	3073.8	2945.6
25°	3470.8	3458.9	3449.6	3409.2	3361.2	3337.0	3312.7	3321.4	3318.9	3213.8	3043.3
27.5°	3661.8	3664.3	3651.8	3608.9	3553.5	3500.0	3498.8	3504.4	3495.0	3359.4	3135.4
30°	3883.9	3885.2	3867.7	3829.2	3768.8	3699.7	3683.6	3692.9	3673.0	3497.5	3232.4
32.5°	4104.8	4111.0	4091.7	4045.1	3996.5	3912.5	3880.2	3886.4	3836.6	3638.8	3332.6
35°	4298.3	4307.0	4300.8	4269.7	4216.8	4144.6	4106.0	4102.3	4040.7	3811.7	3465.2
37.5°	4495.6	4503.6	4496.8	4470.7	4449.5	4373.0	4352.4	4352.4	4245.4	3988.4	3633.8
40°	4698.4	4710.8	4702.8	4666.7	4648.6	4613.8	4564.6	4552.8	4437.1	4200.6	3908.8
42.5°	4886.9	4903.1	4935.5	4914.3	4877.6	4882.6	4783.6	4777.4	4692.8	4514.2	4254.1
45°	5154.5	5178.1	5232.9	5216.7	5209.2	5181.9	5064.3	5058.7	5026.3	4936.1	4682.8
47.5°	5446.3	5478.7	5577.6	5580.7	5661.0	5609.3	5449.4	5430.1	5437.6	5441.3	5206.1
50°	5715.1	5750.6	5913.0	5989.5	6178.7	6189.9	5934.1	5916.7	5946.0	6031.8	5815.9
52.5°	5929.8	5974.6	6177.4	6413.9	6738.0	6830.1	6530.8	6517.8	6539.6	6687.6	6505.3
55°	6087.2	6135.7	6356.6	6787.2	7304.9	7467.3	7217.8	7205.3	7219.0	7407.6	7255.1
57.5°	6123.9	6135.7	6456.2	7038.6	7783.4	8173.5	8058.4	8033.5	7966.3	8130.6	8082.7
60°	5951.6	5998.8	6374.0	7126.9	8153.6	8869.8	8937.0	8905.9	8717.3	8851.7	8813.2
62.5°	5601.9	5686.5	6067.3	6992.5	8298.6	9438.5	9798.8	9761.4	9436.6	9523.7	9338.3
65°	5030.7	5066.8	5466.8	6529.0	8114.4	9802.5	10567.2	10548.5	10139.7	10003.5	9435.4
67.5°	4009.0	4076.8	4416.5	5560.2	7360.9	9759.6	11161.4	11159.6	10598.9	10181.4	9091.3
69°	3167.1	3237.4	3561.0	4580.2	6513.4	9366.9	11261.0	11282.8	10728.4	10073.2	8599.7
70°	2525.0	2606.5	2828.6	3857.8	5761.2	8849.2	11178.2	11217.4	10703.5	9894.6	8146.1
72.5°	1074.6	1140.5	1298.6	1988.6	3511.2	6608.0	10220.6	10368.7	10126.7	9055.8	6732.4
75°	469.2	489.7	561.2	810.8	1558.7	3596.4	8006.8	8280.5	8658.8	7654.6	5015.1
77.5°	343.5	352.2	391.4	476.0	699.4	1358.3	5148.9	5308.2	6244.6	5570.1	3076.3
80°	265.7	271.9	302.4	349.7	456.7	549.4	2348.3	2485.2	3511.2	2861.0	1281.2
82.5°	211.6	215.9	237.1	257.6	315.5	332.9	779.6	864.9	1296.1	790.2	339.1
85°	196.6	201.6	209.1	187.9	202.2	195.4	337.2	352.8	391.4	310.5	141.9
87.5°	89.0	105.2	207.2	146.2	107.6	85.9	138.1	144.4	162.4	163.0	62.8
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°	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3
2.5°	2366.9	2365.1	2368.2	2360.7	2370.0	2369.4	2366.3	2367.6	2373.8	2373.2	2373.8
5°	2381.2	2380.0	2383.7	2378.1	2389.3	2393.1	2393.7	2399.3	2406.1	2408.0	2408.0
7.5°	2417.3	2417.3	2419.2	2411.7	2419.2	2418.6	2415.5	2421.1	2427.9	2428.5	2427.9
10°	2479.6	2480.2	2477.1	2457.8	2451.6	2434.8	2419.2	2419.8	2428.5	2435.4	2437.2
12.5°	2558.0	2555.5	2541.8	2506.3	2480.2	2446.0	2429.8	2429.2	2437.9	2443.5	2445.3
15°	2647.6	2640.7	2605.2	2547.4	2501.3	2467.7	2441.6	2435.4	2430.4	2424.2	2424.8
17.5°	2732.2	2716.6	2657.5	2577.2	2528.7	2483.9	2433.5	2393.1	2365.1	2348.9	2343.9
20°	2818.0	2787.6	2702.3	2605.2	2543.6	2462.1	2365.1	2282.9	2231.9	2208.3	2203.9
22.5°	2896.4	2847.3	2744.0	2634.5	2531.8	2388.7	2236.3	2116.8	2045.9	2014.1	2016.6
25°	2973.0	2904.5	2787.6	2655.0	2472.1	2259.3	2057.1	1910.2	1828.1	1792.6	1791.4
27.5°	3040.2	2962.4	2834.8	2638.2	2360.7	2075.1	1844.9	1701.8	1633.3	1602.8	1597.9
30°	3117.3	3035.2	2897.7	2574.1	2197.7	1862.3	1637.7	1536.9	1488.4	1457.9	1452.3
32.5°	3211.3	3134.1	2949.3	2457.8	1989.2	1640.2	1475.9	1405.6	1361.4	1327.2	1321.0
35°	3348.2	3264.8	2962.4	2291.0	1760.3	1464.7	1357.1	1284.9	1225.2	1181.0	1176.6
37.5°	3519.9	3428.4	2932.5	2075.1	1538.1	1350.8	1258.1	1169.2	1091.4	1029.2	1019.2
40°	3767.6	3629.4	2849.8	1826.2	1374.5	1263.1	1161.7	1060.3	963.8	891.0	876.7
42.5°	4065.0	3865.2	2722.8	1578.6	1254.4	1174.1	1065.9	940.2	848.1	796.4	789.0
45°	4443.3	4110.4	2546.8	1362.0	1136.2	1085.2	962.6	846.8	789.6	751.6	745.4
47.5°	4875.1	4385.4	2362.0	1186.0	1036.0	1001.8	879.8	805.2	759.7	729.9	724.3
50°	5405.9	4695.9	2166.0	1041.6	935.2	901.6	840.6	782.1	746.0	723.0	717.4
52.5°	6004.4	5046.2	2024.7	927.7	851.8	827.6	820.1	769.7	740.4	723.0	717.4
55°	6649.1	5402.8	1872.3	831.9	779.6	786.5	806.4	770.9	751.0	729.9	721.8
57.5°	7294.3	5771.1	1702.4	751.0	722.4	756.0	797.1	773.4	756.6	736.1	728.6
60°	7804.5	6004.4	1439.2	683.2	677.0	722.4	774.7	754.8	733.0	733.6	732.4
62.5°	8042.8	5992.0	1148.6	622.8	631.6	677.0	738.6	725.5	707.5	731.7	733.6
65°	7909.1	5693.3	894.1	568.1	583.0	629.7	701.2	711.2	717.4	764.1	770.3
67.5°	7347.8	5112.2	692.5	520.2	538.8	597.3	705.0	774.7	782.8	831.9	831.3
69°	6767.3	4567.1	601.7	495.3	517.1	605.4	753.5	815.1	784.6	836.9	829.4
70°	6280.7	4135.9	553.2	478.5	507.1	619.7	785.9	814.5	775.3	820.1	807.6
72.5°	4837.2	2975.5	469.2	447.4	473.5	593.0	795.2	796.4	753.5	762.2	741.1
75°	3317.7	1880.4	409.4	405.1	422.5	534.5	765.3	761.0	696.9	684.4	667.0
77.5°	1829.3	955.1	347.8	364.6	376.4	473.5	695.6	689.4	636.5	610.4	604.2
80°	705.6	418.1	293.7	324.2	331.6	410.0	609.8	604.2	560.0	526.4	517.1
82.5°	266.3	219.0	242.7	280.6	278.1	338.5	516.4	513.3	470.4	421.2	406.3
85°	123.2	131.3	192.3	231.5	213.4	250.8	413.2	418.8	366.5	308.0	308.0
87.5°	52.3	73.4	136.3	174.8	143.7	169.2	303.0	289.3	265.7	184.2	173.0
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)