

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: P323587

Luminaire Tested: **GAN-SA3A-760-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12155 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

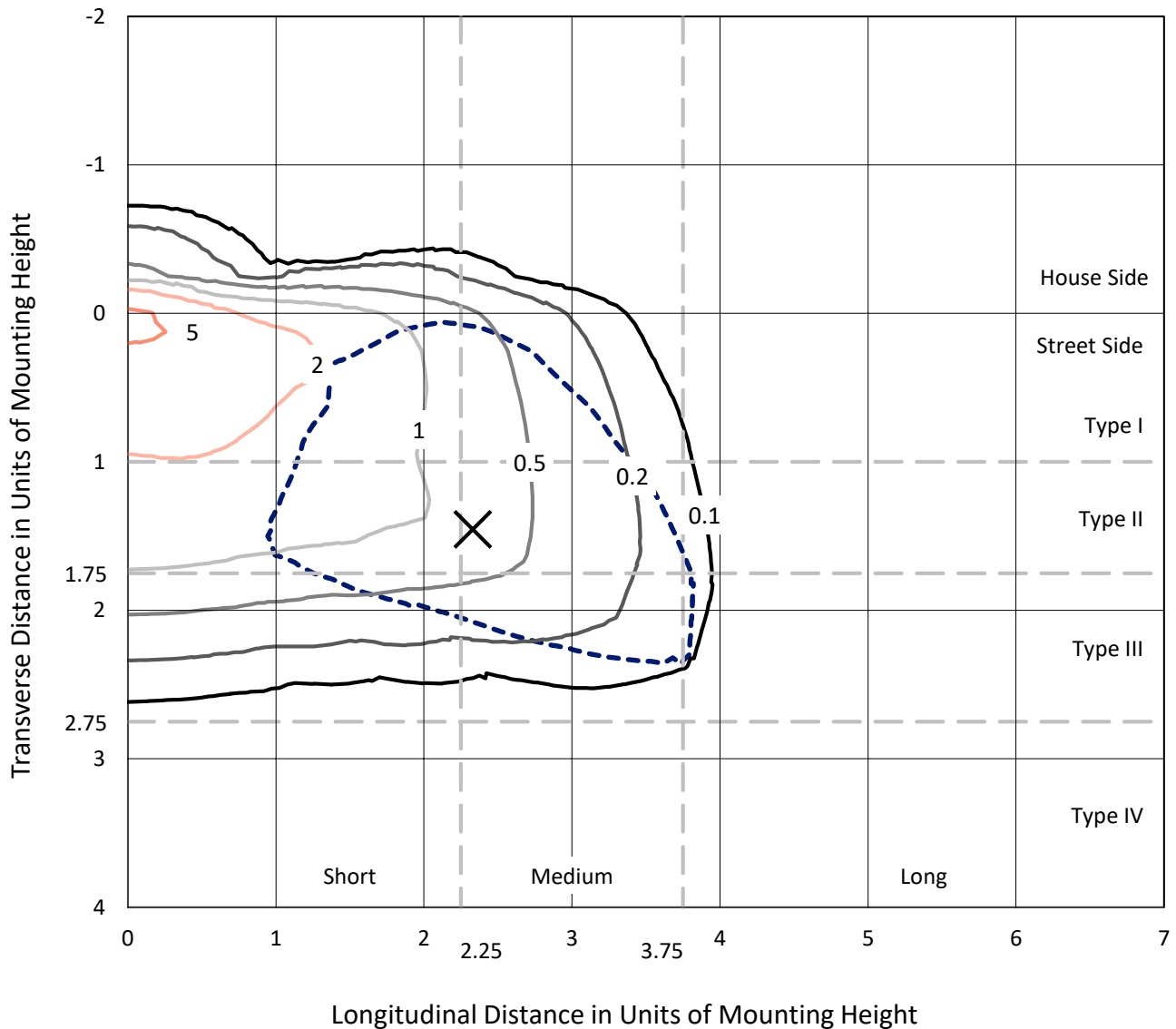
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

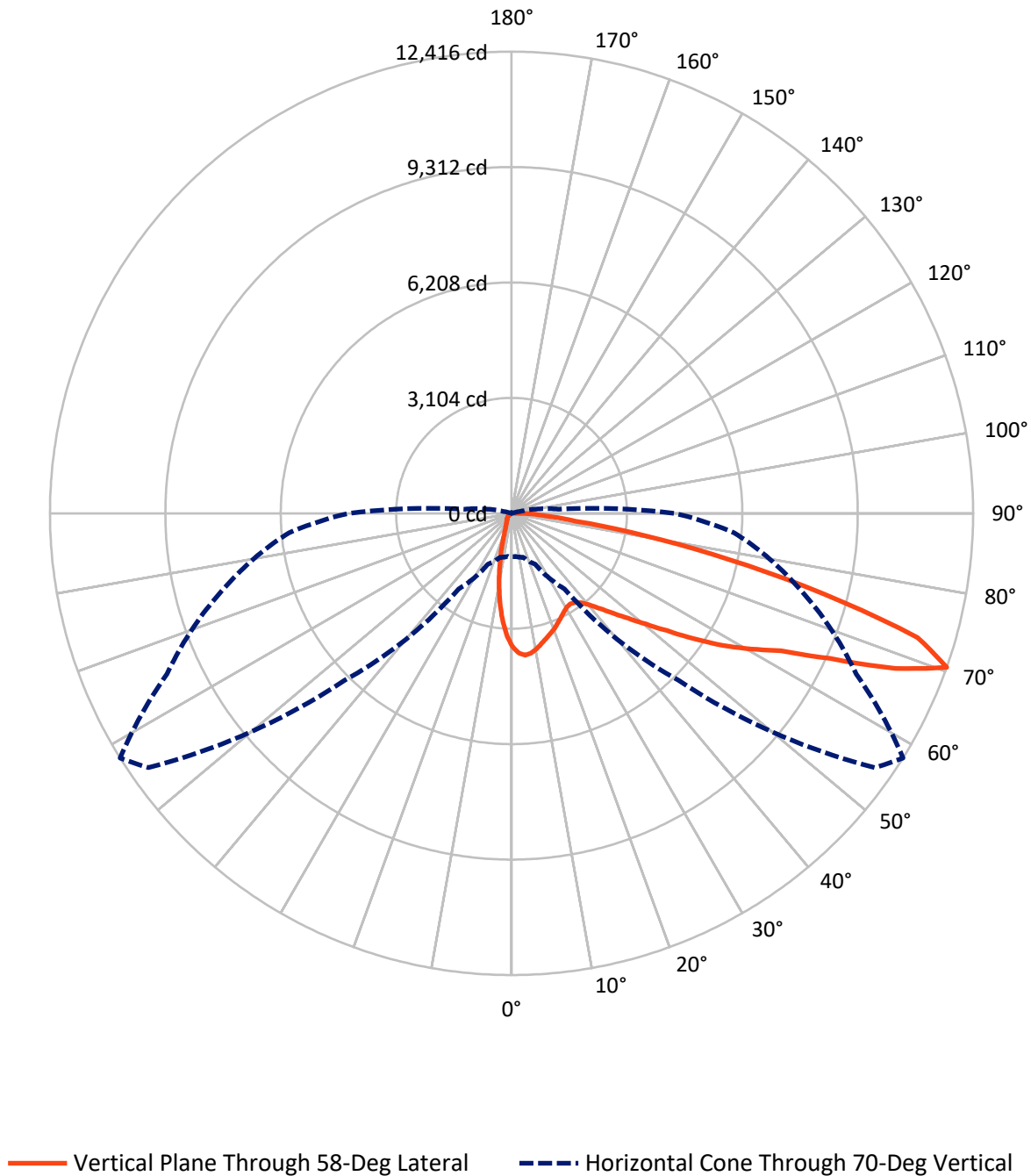
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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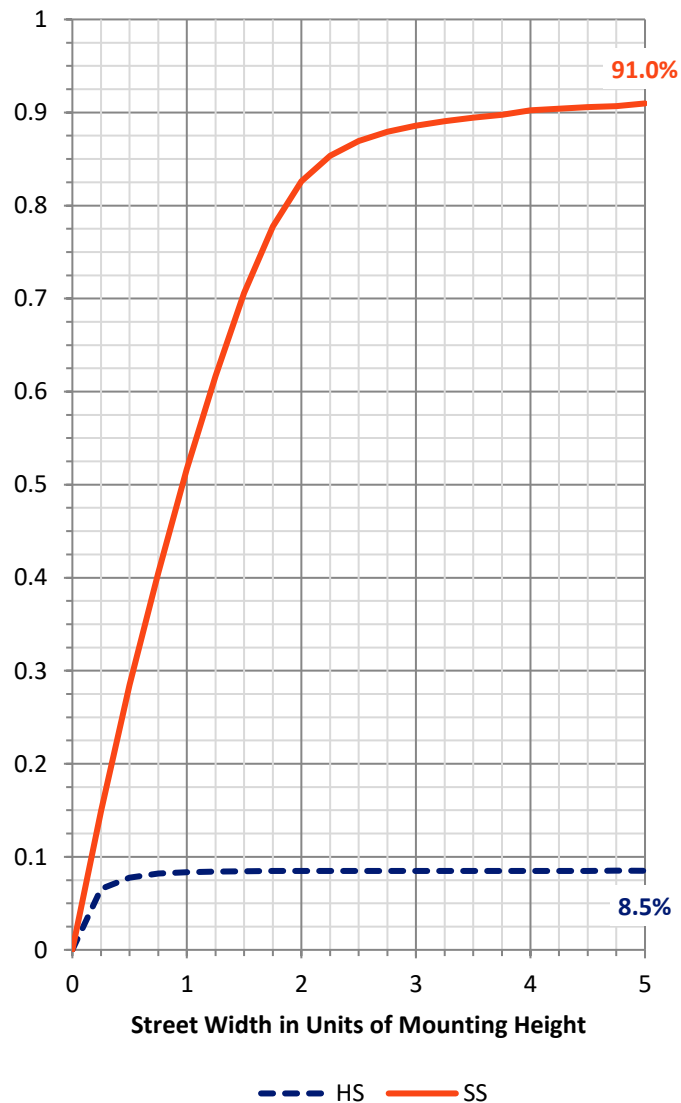
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1040.2	0.0	1040.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	11114.8	0.0	11114.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	12155.0	0.0	12155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	2.4
10°-20°	616.2	5.1
20°-30°	810.1	6.7
30°-40°	1072.9	8.8
40°-50°	1603.7	13.2
50°-60°	2569.0	21.1
60°-70°	3238.2	26.6
70°-80°	1746.7	14.4
80°-90°	204.5	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°	12155.0	100.0
0°-180°	12155.0	100.0

Coefficient of Utilization



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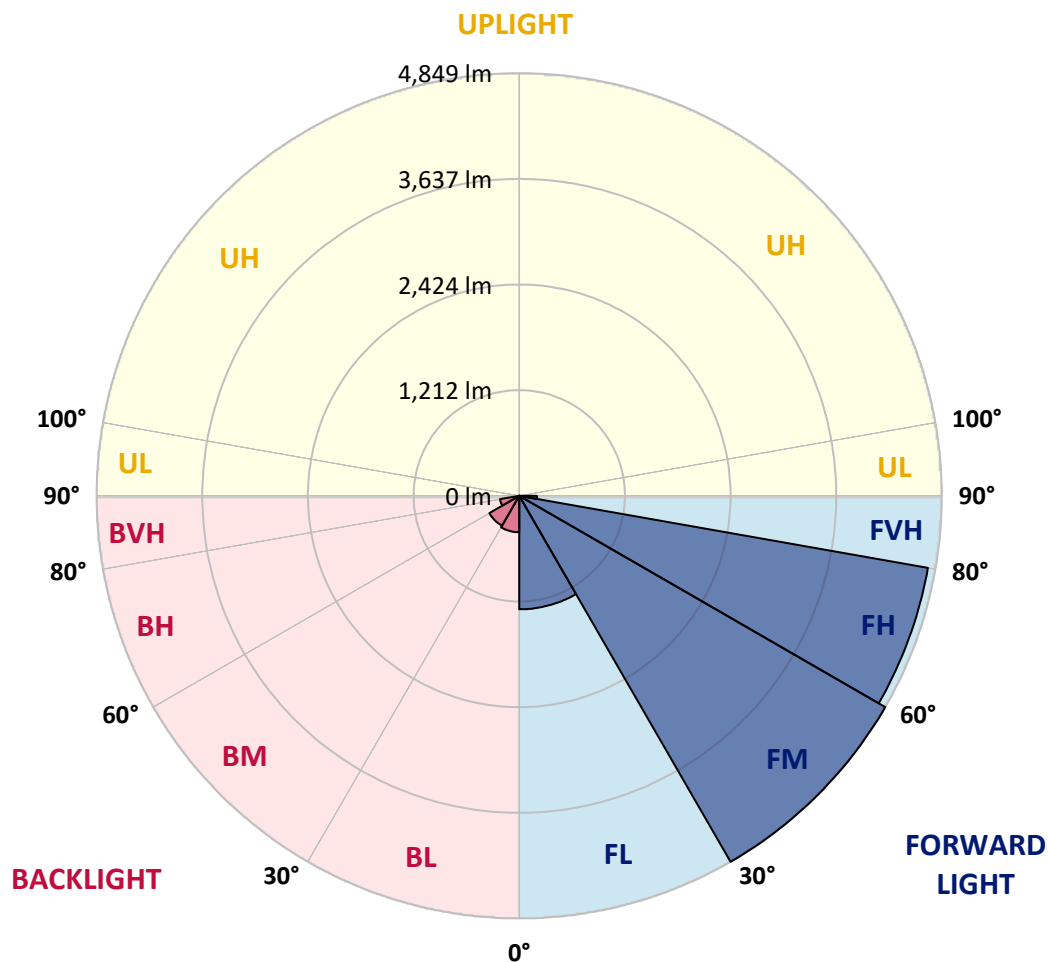
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.1	10.7			
FM	(30°-60°)	4848.8	39.9			
FH	(60°-80°)	4761.2	39.2			G2/5000
FVH	(80°-90°)	202.7	1.7			G2/225
BL	(0°-30°)	417.9	3.4	B1/500		
BM	(30°-60°)	396.8	3.3	B1/1000		
BH	(60°-80°)	223.7	1.8	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	58°	65°	75°	85°
0°	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5
2.5°	3888.2	3878.6	3875.1	3869.0	3845.8	3823.0	3778.0	3765.4	3737.1	3669.9	3598.6
5°	3891.3	3890.8	3901.4	3898.8	3890.8	3880.1	3847.8	3831.1	3783.1	3687.1	3556.7
7.5°	3703.7	3713.3	3737.1	3756.3	3778.5	3807.4	3811.4	3795.2	3755.8	3652.2	3479.3
10°	3452.0	3467.2	3500.6	3538.5	3596.6	3654.2	3705.8	3703.7	3690.1	3588.0	3386.3
12.5°	3199.8	3217.5	3255.9	3312.0	3394.4	3488.4	3580.4	3593.1	3615.8	3530.4	3300.4
15°	2979.0	2994.1	3032.0	3100.8	3202.9	3329.2	3464.2	3487.4	3546.1	3485.4	3228.6
17.5°	2791.5	2801.1	2828.9	2905.2	3023.4	3176.6	3352.0	3397.5	3484.9	3450.0	3166.5
20°	2660.5	2662.1	2680.3	2733.8	2852.1	3023.4	3235.7	3300.9	3420.2	3419.7	3102.3
22.5°	2595.9	2590.8	2594.3	2625.2	2712.1	2877.4	3119.5	3196.8	3362.1	3393.9	3037.1
25°	2583.7	2579.7	2569.6	2573.6	2626.2	2749.5	3002.2	3091.7	3311.0	3378.3	2980.5
27.5°	2621.6	2625.7	2608.5	2590.3	2594.3	2666.6	2898.1	3001.7	3269.6	3378.3	2940.6
30°	2698.0	2700.0	2687.3	2663.6	2631.7	2643.4	2825.8	2929.4	3248.9	3401.5	2915.3
32.5°	2782.4	2793.5	2792.0	2772.8	2727.3	2680.3	2808.6	2903.2	3247.3	3453.1	2912.8
35°	2887.0	2899.6	2920.8	2916.8	2869.3	2792.0	2867.3	2941.6	3277.2	3538.0	2940.0
37.5°	2998.2	3017.4	3062.9	3084.6	3053.8	2966.3	2998.7	3051.7	3357.0	3675.4	3009.3
40°	3105.8	3127.6	3210.5	3295.9	3272.6	3182.7	3197.8	3240.3	3499.0	3873.1	3140.7
42.5°	3211.5	3243.8	3365.6	3506.1	3533.9	3462.2	3470.2	3504.1	3709.8	4145.0	3355.5
45°	3337.8	3374.2	3554.6	3728.0	3802.3	3771.0	3805.3	3827.6	3985.3	4504.3	3645.1
47.5°	3523.3	3565.3	3786.6	3984.3	4114.7	4134.9	4204.1	4218.8	4333.5	4922.8	4022.7
50°	3885.2	3896.8	4097.0	4276.4	4464.4	4585.7	4664.6	4675.7	4755.0	5380.2	4494.2
52.5°	4340.6	4348.2	4461.4	4581.7	4795.5	5043.1	5227.6	5243.3	5259.9	5826.0	4959.7
55°	4792.9	4791.9	4866.7	4937.5	5182.1	5542.0	5942.3	5951.9	5832.1	6249.1	5315.5
57.5°	5075.5	5102.8	5216.5	5307.5	5649.1	6110.6	6666.0	6701.4	6433.0	6562.4	5667.3
60°	4985.5	4998.6	5250.8	5587.5	6230.9	6918.7	7398.4	7407.5	6884.9	6875.3	6112.1
62.5°	4247.6	4254.7	4650.9	5344.9	6525.5	7967.0	8281.9	8133.8	7404.5	7309.4	6644.3
65°	2911.2	2957.2	3288.3	4146.0	5984.2	8624.5	9649.5	9404.4	8196.5	7935.2	7125.5
67.5°	1714.4	1704.8	1868.6	2500.3	4395.2	8187.9	11379.6	11136.0	9276.5	8354.1	6984.4
70°	1171.1	1164.5	1227.2	1513.7	2481.1	6351.7	11924.0	12415.7	10230.3	8072.1	6011.0
72.5°	836.0	839.5	932.0	1176.1	1557.7	3700.7	10254.0	11418.0	9931.6	7037.0	4569.0
75°	567.6	577.2	709.6	964.9	1365.7	1882.7	7276.6	8679.6	8087.3	5114.4	2626.2
77.5°	305.3	315.9	472.1	777.3	1234.7	1308.0	4680.7	5973.6	5080.0	2299.2	761.2
80°	127.4	133.4	220.9	565.1	1066.9	1148.8	2754.1	3622.4	2164.7	453.4	169.8
82.5°	55.1	58.1	92.0	337.1	797.6	969.9	1458.1	1742.7	656.0	99.6	85.4
85°	10.6	11.1	37.9	178.4	509.0	547.4	945.1	926.4	294.7	43.0	62.2
87.5°	0.0	0.0	9.1	56.1	149.6	298.2	576.7	569.6	100.1	20.7	23.2
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°	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5
2.5°	3562.2	3527.4	3454.1	3363.6	3294.4	3218.0	3157.4	3080.6	3047.2	3048.7	3030.5
5°	3482.4	3410.6	3248.4	3043.7	2886.0	2723.2	2583.2	2443.7	2361.3	2334.6	2309.3
7.5°	3368.1	3254.4	2995.6	2680.3	2413.4	2152.6	1925.7	1726.0	1599.7	1538.0	1515.3
10°	3239.3	3079.5	2705.0	2289.6	1908.5	1555.7	1261.5	1005.8	903.7	834.5	816.8
12.5°	3126.0	2909.7	2421.0	1888.8	1436.4	1010.8	730.3	571.1	501.9	474.6	470.0
15°	3019.4	2751.0	2147.5	1525.9	994.7	622.2	464.5	410.4	394.2	389.7	389.7
17.5°	2918.8	2599.9	1880.2	1168.5	658.1	436.2	384.6	372.5	367.4	366.9	367.4
20°	2813.7	2448.8	1617.4	856.2	459.4	369.5	355.3	348.7	347.2	347.2	347.2
22.5°	2713.1	2297.7	1361.6	611.6	368.5	337.1	330.0	325.5	324.0	323.5	322.5
25°	2616.6	2154.1	1111.9	432.1	323.5	308.8	302.7	296.7	292.1	289.6	288.1
27.5°	2537.2	2026.2	879.4	346.7	292.1	279.5	271.9	262.8	251.7	246.6	244.6
30°	2474.0	1909.5	677.8	292.6	262.8	250.2	238.6	222.9	206.7	198.1	197.6
32.5°	2424.5	1794.8	514.5	258.8	236.5	220.9	204.2	184.5	165.8	156.2	155.7
35°	2400.3	1693.7	393.2	234.0	213.3	193.6	172.9	151.1	132.9	123.8	122.8
37.5°	2416.4	1608.3	306.8	213.3	193.6	170.8	146.6	123.8	107.7	99.6	99.1
40°	2475.6	1553.7	249.2	195.6	176.9	149.1	122.8	101.6	87.9	81.4	80.9
42.5°	2601.4	1533.5	212.8	180.9	160.7	128.9	102.1	83.9	71.3	66.7	65.7
45°	2811.7	1563.3	188.0	166.8	144.0	109.7	84.4	68.7	57.6	54.1	53.6
47.5°	3091.7	1641.6	170.3	153.1	128.9	92.5	70.3	55.6	47.0	43.5	43.0
50°	3452.5	1766.0	155.7	139.5	114.7	78.3	58.1	44.0	36.4	33.9	33.9
52.5°	3845.3	1914.0	142.5	126.9	100.6	65.2	47.0	33.9	28.8	25.8	25.8
55°	4169.7	2043.4	128.4	117.3	83.4	54.1	35.9	25.8	21.2	19.7	19.7
57.5°	4493.7	2181.4	112.2	100.6	66.7	44.0	27.3	19.2	15.7	14.7	14.7
60°	4913.7	2350.2	96.5	81.9	52.6	33.4	20.2	13.6	11.6	11.1	11.1
62.5°	5375.7	2449.3	82.4	65.7	40.9	24.8	14.7	9.1	8.6	8.6	8.1
65°	5658.2	2309.3	69.2	52.6	31.8	18.7	9.6	6.6	7.6	7.1	6.1
67.5°	5297.9	1807.9	56.6	40.9	24.8	14.2	6.1	4.5	8.1	6.6	5.1
70°	4386.6	1265.6	44.0	28.8	19.7	12.1	4.0	3.0	8.6	6.6	4.0
72.5°	3282.7	847.1	34.9	19.2	14.7	10.6	3.5	1.5	7.6	5.6	3.5
75°	1793.7	341.2	27.8	12.1	9.1	7.6	2.5	1.0	5.1	4.0	2.5
77.5°	472.1	90.0	20.2	8.1	5.1	3.0	1.5	0.5	2.5	2.0	1.0
80°	120.3	34.9	13.1	5.6	3.5	1.5	0.0	0.0	0.5	0.0	0.0
82.5°	64.2	14.7	8.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.5	9.6	4.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	3.0	1.5	0.0	0.0	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)