

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: P192943

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18866.9 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 210
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: 28.75 FT

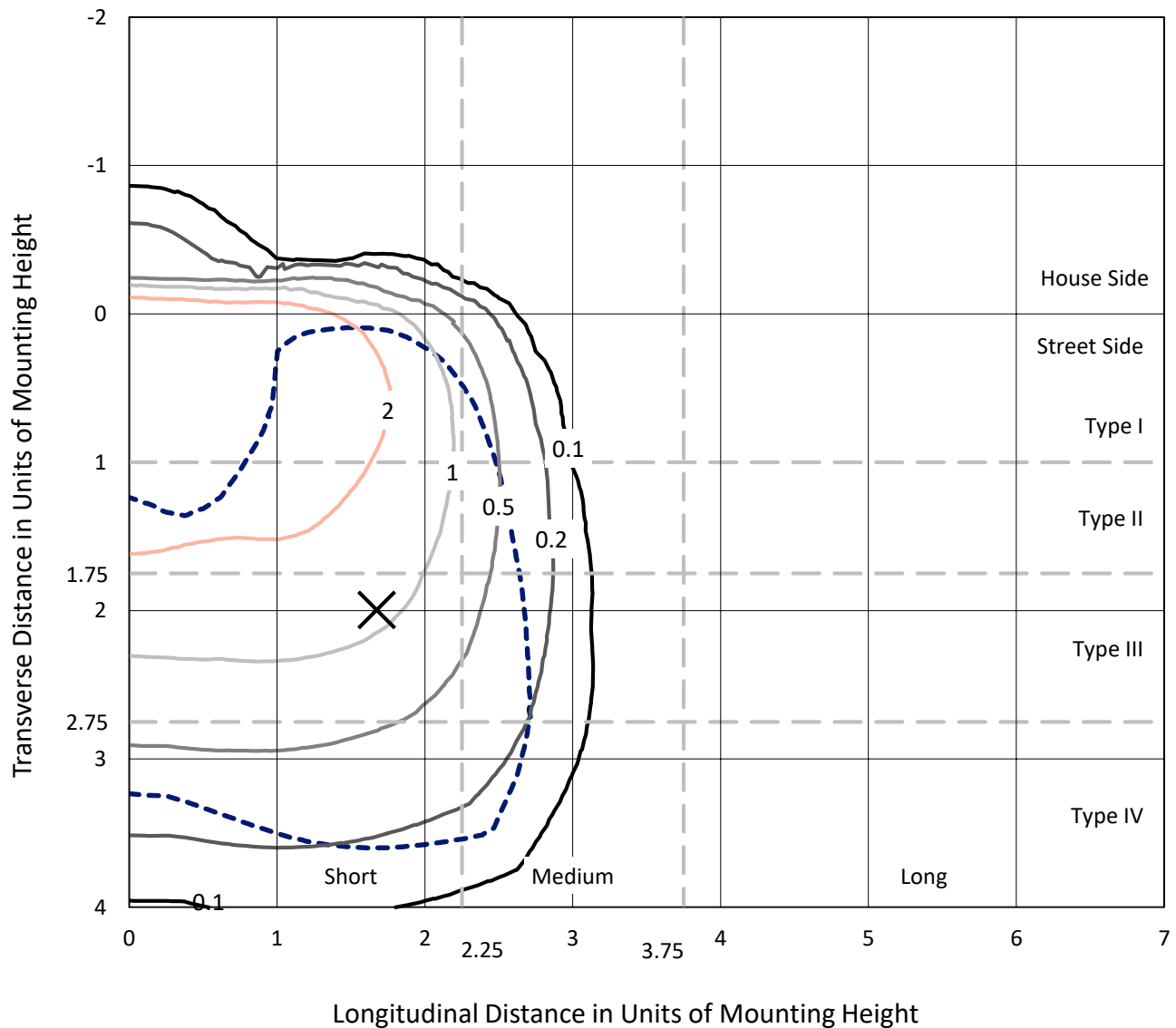


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

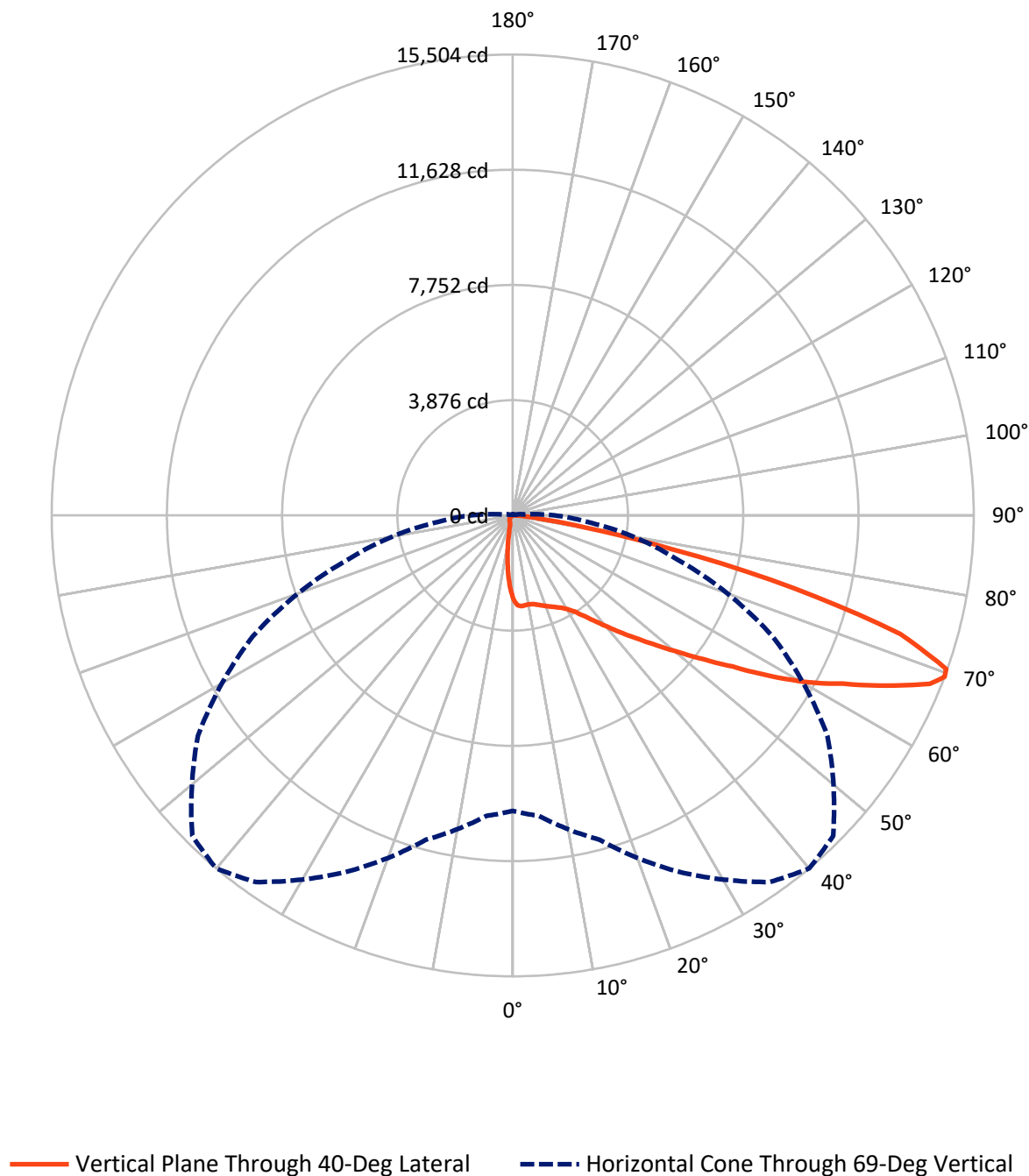


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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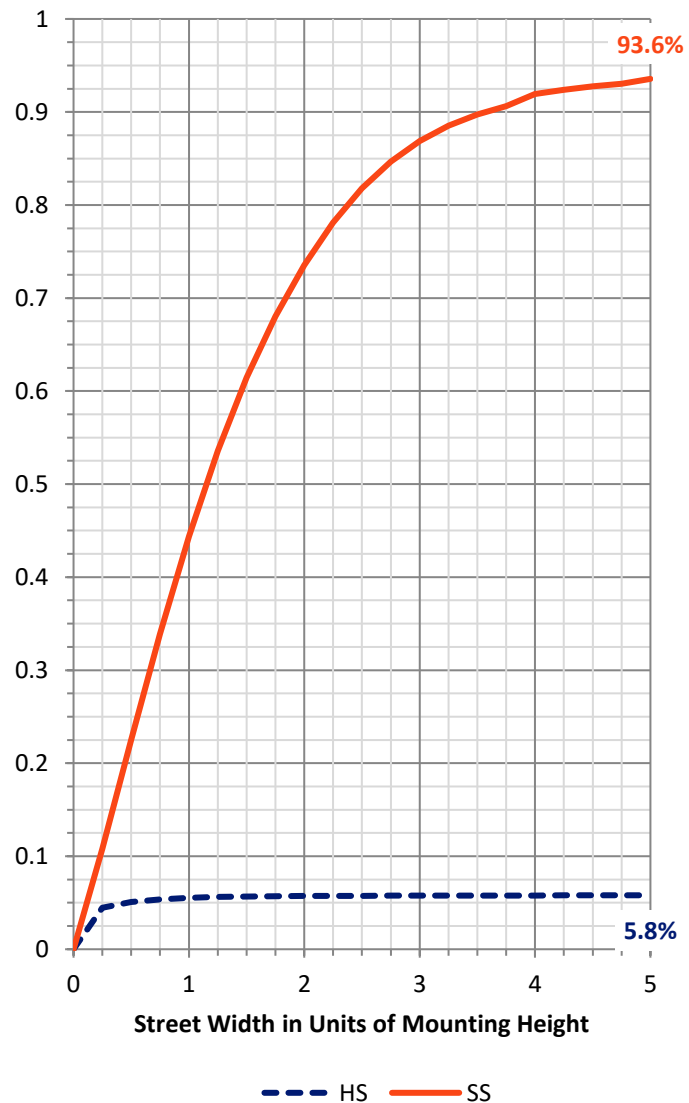
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1103.8	0.0	1103.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	17763.1	0.0	17763.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	18866.9	0.0	18866.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	1.2
10°-20°	562.0	3.0
20°-30°	946.7	5.0
30°-40°	1549.7	8.2
40°-50°	2683.3	14.2
50°-60°	4226.5	22.4
60°-70°	5519.7	29.3
70°-80°	2842.9	15.1
80°-90°	307.5	1.6
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°	18866.9	100.0
0°-180°	18866.9	100.0

Coefficient of Utilization



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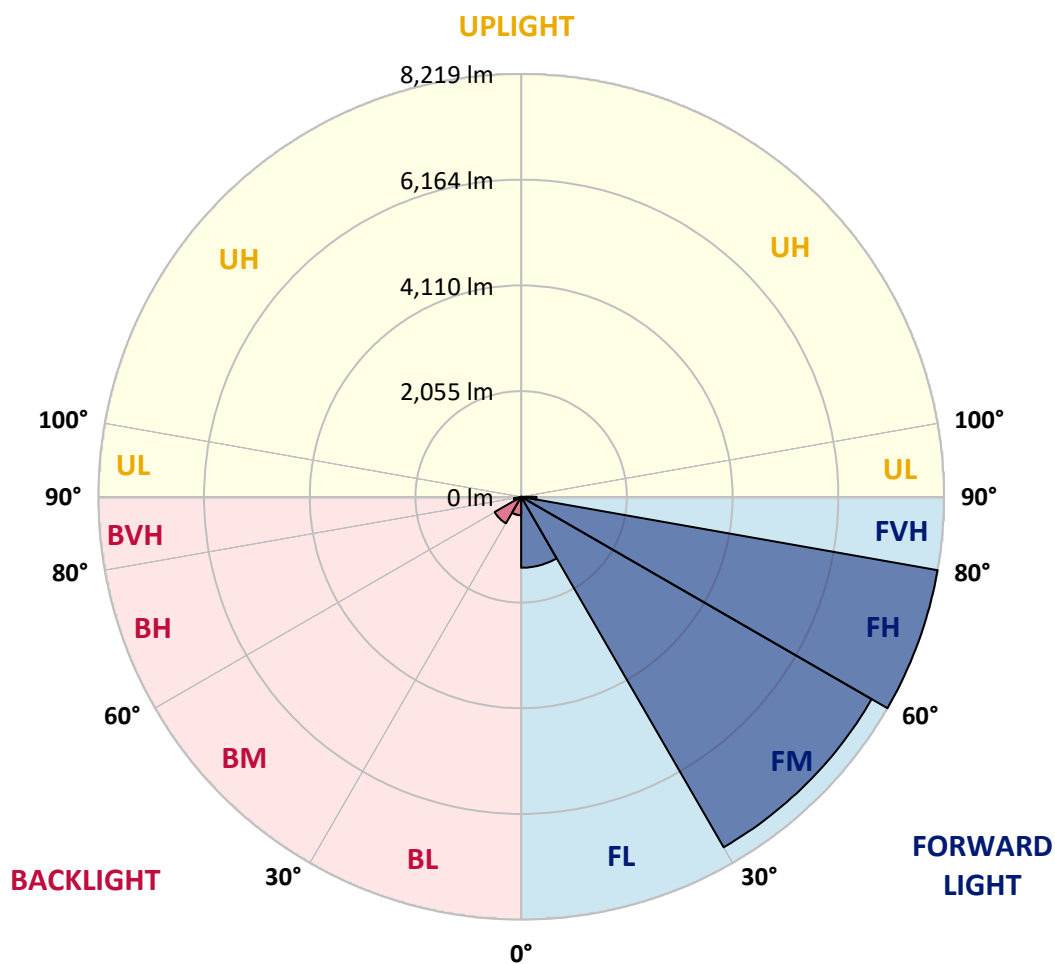
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.7	7.3			
FM	(30°-60°)	7866.3	41.7			
FH	(60°-80°)	8219.2	43.6			G4/12000
FVH	(80°-90°)	297.9	1.6			G3/500
BL	(0°-30°)	357.6	1.9	B1/500		
BM	(30°-60°)	593.3	3.1	B1/1000		
BH	(60°-80°)	143.3	0.8	B1/500		G1/500
BVH	(80°-90°)	9.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8
2.5°	3095.1	3078.3	3068.1	3054.7	3037.9	3023.2	3017.6	2976.0	2936.8	2882.8	2821.1
5°	3152.3	3146.7	3128.7	3110.8	3090.6	3068.1	3055.8	3006.4	2950.2	2871.6	2763.8
7.5°	3157.9	3151.2	3128.7	3104.0	3075.9	3049.0	3027.7	2978.3	2926.6	2846.9	2715.5
10°	3149.0	3141.1	3124.3	3097.3	3062.5	3036.7	3015.3	2968.1	2924.4	2852.5	2706.5
12.5°	3138.9	3131.1	3123.1	3109.6	3079.4	3061.3	3043.4	2998.5	2959.2	2898.5	2739.0
15°	3149.0	3144.5	3153.4	3147.9	3131.1	3115.3	3097.3	3056.8	3020.9	2970.4	2798.5
17.5°	3191.7	3191.7	3219.8	3223.1	3207.5	3184.9	3159.1	3118.7	3088.3	3045.7	2869.3
20°	3291.7	3288.2	3324.2	3330.9	3292.7	3257.9	3219.8	3170.2	3146.7	3119.8	2939.0
22.5°	3463.4	3447.6	3469.1	3462.3	3387.0	3333.2	3286.0	3225.4	3213.0	3200.6	3016.4
25°	3687.0	3677.8	3692.5	3626.4	3493.8	3420.8	3364.6	3296.2	3296.2	3308.5	3104.0
27.5°	4011.5	3977.8	3928.4	3811.6	3612.7	3519.6	3458.9	3386.0	3405.1	3451.1	3219.8
30°	4343.9	4306.8	4193.4	4013.7	3757.7	3659.9	3589.1	3512.8	3557.8	3641.9	3374.7
32.5°	4671.8	4630.3	4469.7	4242.9	3965.4	3867.7	3799.2	3715.1	3790.2	3931.7	3601.5
35°	4989.7	4952.6	4767.3	4500.0	4241.7	4160.8	4098.0	4024.9	4121.5	4319.1	3921.7
37.5°	5346.7	5306.2	5080.5	4790.8	4577.5	4519.1	4473.1	4400.1	4568.4	4858.2	4367.4
40°	5785.9	5717.3	5413.0	5124.4	4966.1	4938.0	4906.5	4896.5	5158.1	5559.0	4961.6
42.5°	6289.0	6176.7	5761.1	5475.8	5392.8	5413.0	5405.2	5450.1	5895.9	6430.5	5684.8
45°	6792.1	6647.3	6148.6	5851.0	5862.2	5933.0	5976.8	6156.4	6820.2	7429.9	6463.0
47.5°	7218.9	7076.1	6520.4	6256.4	6391.1	6530.4	6649.5	6989.8	7770.3	8413.7	7068.3
50°	7583.8	7449.1	6914.5	6702.3	7005.4	7230.1	7423.3	7927.6	8792.2	9162.8	7492.9
52.5°	7882.5	7792.7	7323.3	7213.2	7707.3	8036.4	8319.4	8923.6	9697.5	9771.5	7823.1
55°	8173.4	8109.4	7762.5	7820.8	8531.7	8979.8	9338.1	9980.4	10476.8	10279.1	8139.7
57.5°	8508.1	8449.7	8263.3	8591.2	9615.4	10179.1	10570.0	10916.9	11162.9	10798.0	8438.4
60°	8849.5	8815.8	8820.3	9447.0	10859.8	11400.9	11616.7	11706.5	11836.7	11286.5	8455.3
62.5°	9175.1	9239.2	9457.1	10399.3	12051.3	12466.8	12575.7	12664.5	12511.8	11363.9	7811.8
65°	9726.6	9831.0	10351.0	11674.0	13361.9	13806.5	13918.9	13614.5	12618.4	10362.2	6354.1
67.5°	9996.1	10187.0	11114.6	12862.1	14633.1	15127.3	15085.7	13676.3	11323.5	7901.6	4077.8
69°	9940.0	10143.2	11291.0	13226.0	15055.4	15503.5	15239.6	12920.5	9646.8	5724.1	2503.2
70°	9717.6	9923.2	11199.9	13212.5	15109.3	15464.1	14954.4	11987.3	8156.5	4185.5	1565.4
72.5°	8115.0	8292.4	9943.3	11942.4	13918.9	13630.2	12510.6	8304.8	3974.5	1139.9	352.6
75°	4995.3	5094.1	7134.6	8996.6	10512.7	9771.5	8335.2	4131.6	1184.8	322.4	195.3
77.5°	2639.1	2684.1	3905.9	5303.0	6664.0	5514.1	4272.0	1611.6	545.8	202.1	141.5
80°	1559.9	1593.5	2103.5	2424.6	2883.9	2408.9	1708.2	989.4	390.8	126.8	125.7
82.5°	892.7	914.2	1525.0	1347.6	1136.6	970.3	850.1	937.8	234.7	85.3	130.2
85°	327.9	332.3	858.0	1025.3	676.1	402.1	422.3	777.2	63.0	53.9	102.1
87.5°	152.8	149.3	441.3	627.8	395.3	254.9	329.1	170.7	24.7	34.9	28.1
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°	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8	2818.8
2.5°	2785.1	2743.6	2668.3	2590.9	2512.2	2451.6	2392.0	2344.9	2329.2	2300.0	2302.2
5°	2699.8	2623.5	2466.2	2306.7	2140.5	2003.5	1874.4	1769.9	1719.4	1667.8	1667.8
7.5°	2625.6	2514.5	2268.5	2009.1	1740.7	1515.0	1311.6	1159.0	1074.8	1007.4	1006.3
10°	2597.5	2447.1	2103.5	1731.8	1357.8	1050.0	808.6	653.6	573.8	522.3	520.0
12.5°	2609.8	2423.5	1976.5	1475.6	1006.3	674.9	468.2	368.3	334.7	318.9	318.9
15°	2645.8	2416.9	1849.6	1225.3	710.8	422.3	311.1	284.1	281.9	281.9	281.9
17.5°	2689.6	2419.0	1719.4	981.4	484.0	302.1	268.4	265.1	267.2	267.2	267.2
20°	2734.5	2420.1	1579.1	755.7	341.4	262.8	252.7	251.6	253.8	253.8	254.9
22.5°	2789.6	2425.8	1438.6	564.9	281.9	248.2	240.4	240.4	241.5	241.5	240.4
25°	2852.5	2437.0	1292.6	418.9	257.2	238.0	231.3	230.2	231.3	230.2	229.1
27.5°	2931.1	2452.7	1129.7	327.9	246.0	228.1	222.4	222.4	221.2	220.1	218.9
30°	3030.0	2470.7	946.7	278.5	234.7	218.9	213.4	212.3	211.1	208.9	208.9
32.5°	3180.4	2510.0	765.9	252.7	222.4	206.6	202.1	202.1	200.0	197.6	196.5
35°	3411.7	2587.5	604.2	237.0	208.9	193.2	187.6	187.6	185.3	184.2	183.0
37.5°	3731.9	2705.4	469.4	222.4	195.3	178.5	172.9	171.9	169.6	167.3	166.2
40°	4157.5	2851.3	369.6	208.9	181.9	164.0	159.5	157.3	152.8	149.3	149.3
42.5°	4692.0	3017.6	299.8	194.3	166.2	150.4	147.1	143.7	135.9	132.5	131.4
45°	5251.3	3167.0	253.8	177.4	150.4	137.0	134.7	129.2	119.1	115.7	115.7
47.5°	5654.5	3201.8	223.4	161.7	135.9	122.4	121.3	111.2	102.1	100.0	98.9
50°	5906.0	3133.2	198.8	146.0	122.4	108.9	105.6	93.2	87.6	85.3	84.2
52.5°	6075.6	3010.8	178.5	132.5	110.1	96.5	88.7	79.8	75.3	72.9	72.9
55°	6211.5	2837.9	158.3	120.1	100.0	86.5	75.3	68.5	64.0	61.7	61.7
57.5°	6249.6	2603.2	138.1	110.1	89.8	76.4	64.0	59.5	53.9	52.8	52.8
60°	5972.3	2179.8	122.4	97.7	80.9	66.2	56.2	50.6	44.9	43.8	42.7
62.5°	5241.1	1686.8	107.8	86.5	70.8	57.3	48.3	41.5	37.0	37.0	37.0
65°	3998.1	1131.0	94.3	75.3	61.7	48.3	41.5	33.7	31.4	31.4	32.6
67.5°	2393.3	615.4	80.9	64.0	52.8	40.4	34.9	29.2	28.1	29.2	29.2
69°	1402.7	361.6	72.9	57.3	46.0	35.9	30.4	25.7	28.1	29.2	29.2
70°	865.9	243.6	67.4	51.7	41.5	32.6	28.1	24.7	27.0	28.1	28.1
72.5°	241.5	125.7	53.9	40.4	33.7	27.0	22.5	22.5	25.7	27.0	27.0
75°	157.3	93.2	41.5	30.4	25.7	21.3	19.1	21.3	24.7	25.7	25.7
77.5°	130.2	76.4	33.7	24.7	21.3	20.2	17.9	19.1	22.5	23.6	23.6
80°	119.1	53.9	27.0	22.5	19.1	17.9	16.8	15.8	20.2	21.3	21.3
82.5°	113.4	42.7	23.6	20.2	17.9	15.8	14.6	15.8	17.9	19.1	20.2
85°	70.8	28.1	21.3	19.1	15.8	14.6	14.6	14.6	16.8	17.9	17.9
87.5°	25.7	22.5	19.1	15.8	13.4	13.4	13.4	13.4	14.6	16.8	16.8
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)