

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: P193792

Luminaire Tested: **GAN-AF-04-LED-U-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18618 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
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



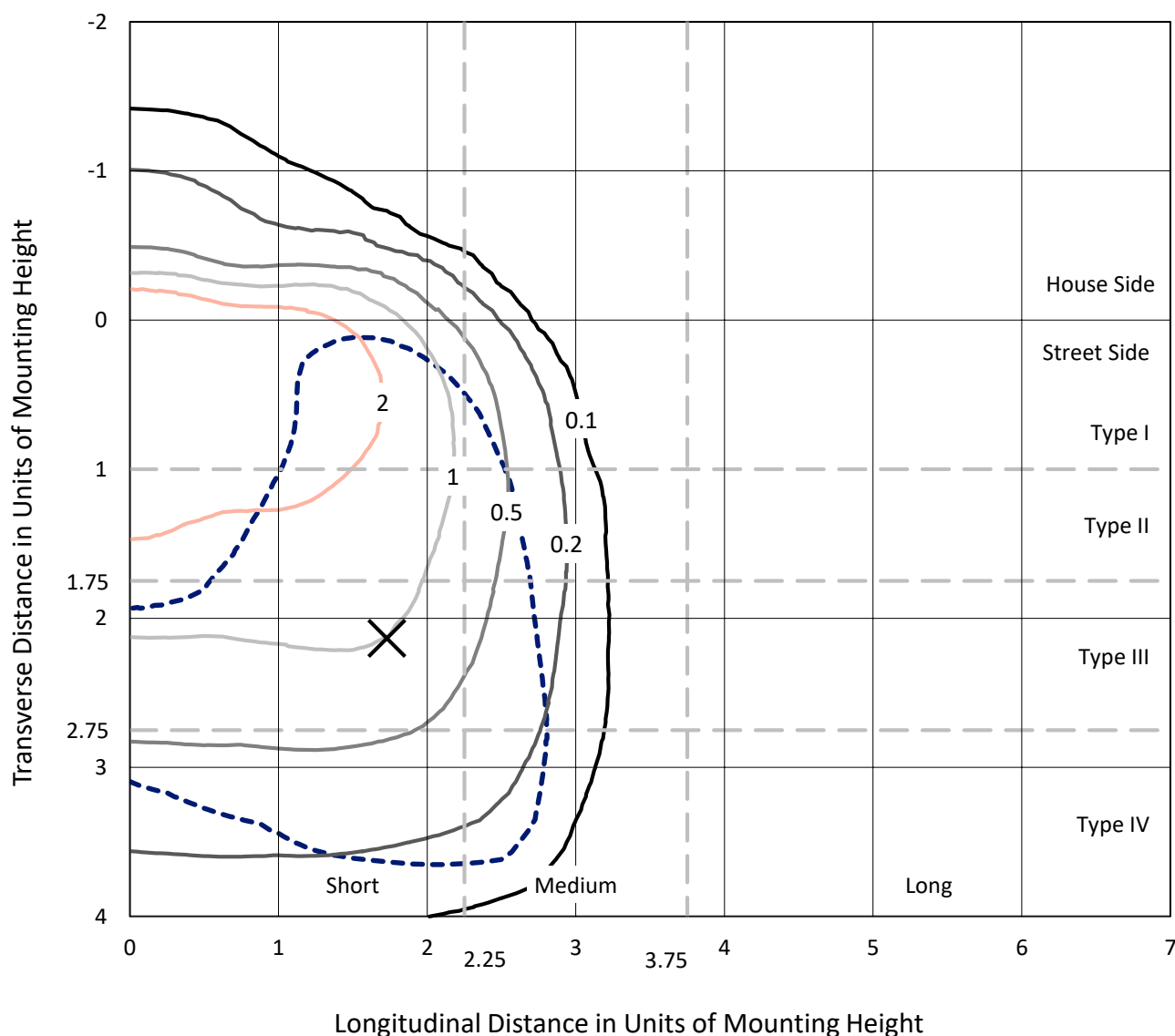
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

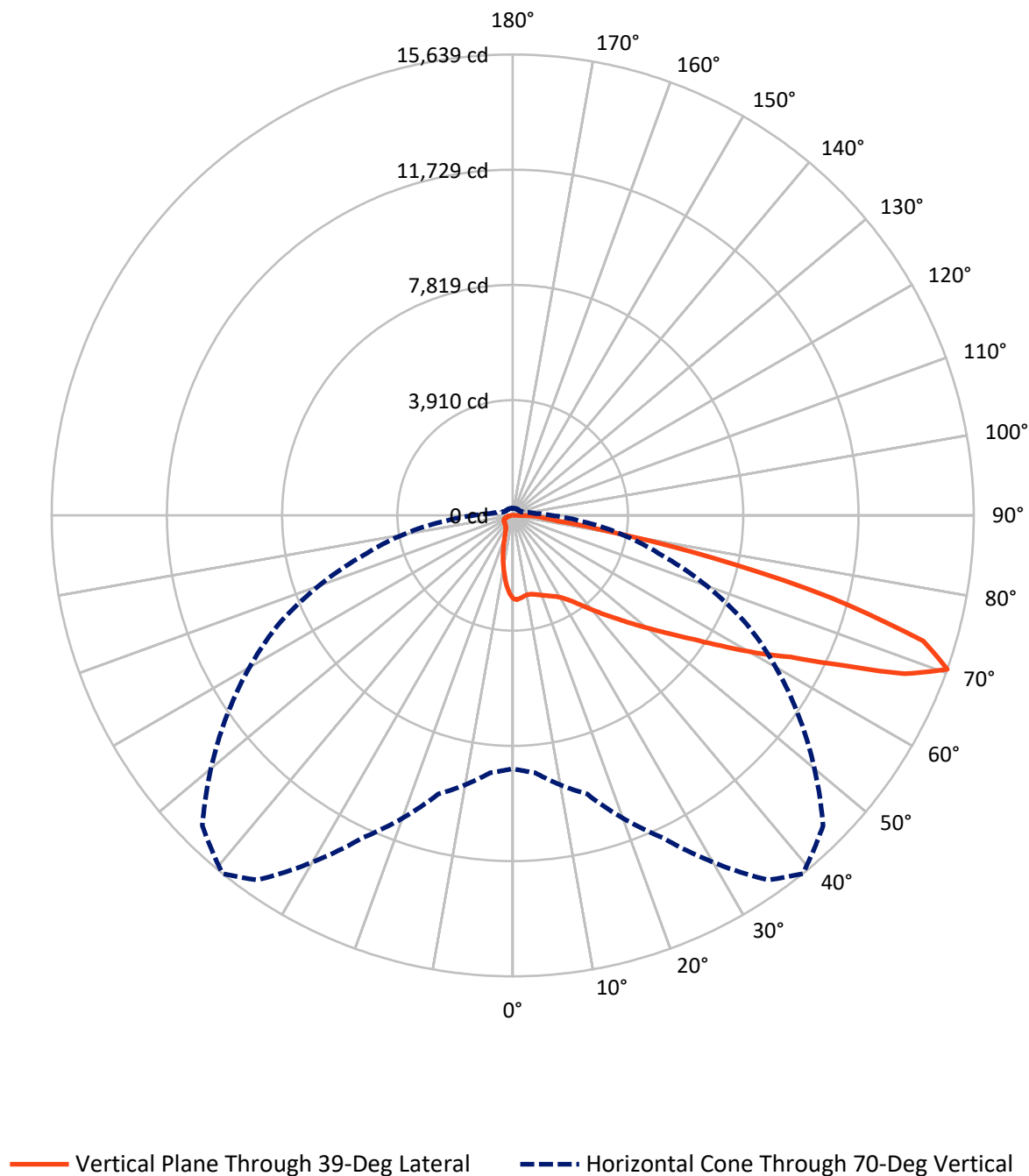


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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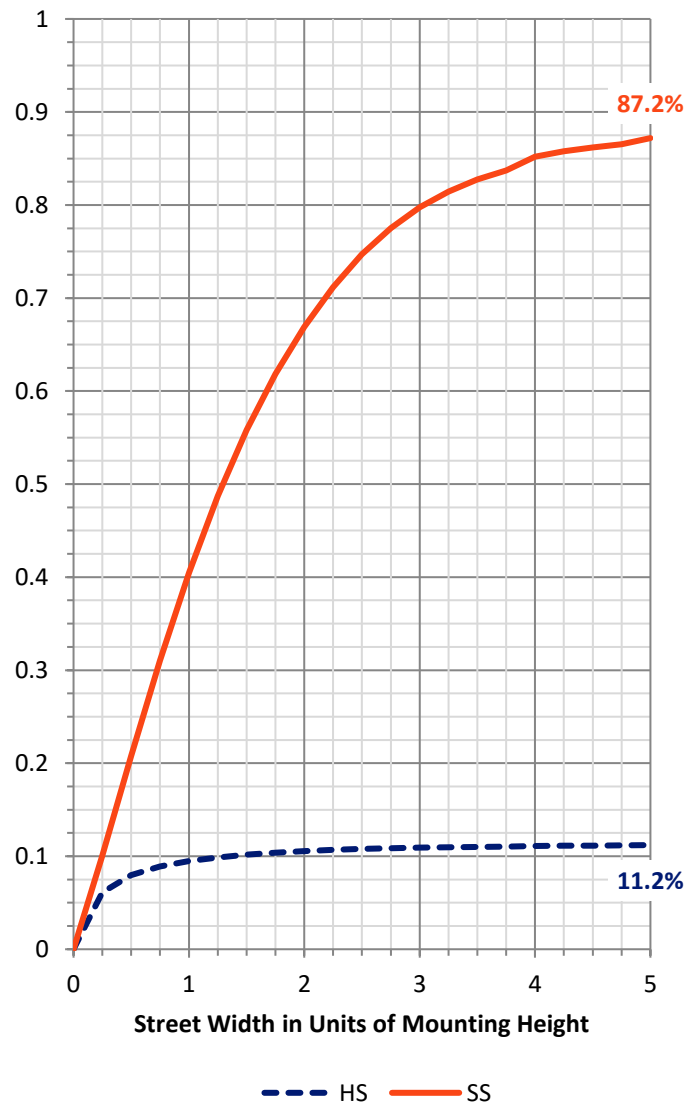
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2117.5	0.0	2117.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	16500.5	0.0	16500.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	18618.0	0.0	18618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	1.3
10°-20°	606.3	3.3
20°-30°	944.1	5.1
30°-40°	1470.7	7.9
40°-50°	2469.0	13.3
50°-60°	3922.3	21.1
60°-70°	5231.9	28.1
70°-80°	3159.4	17.0
80°-90°	571.8	3.1
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°	18618.0	100.0
0°-180°	18618.0	100.0

Coefficient of Utilization



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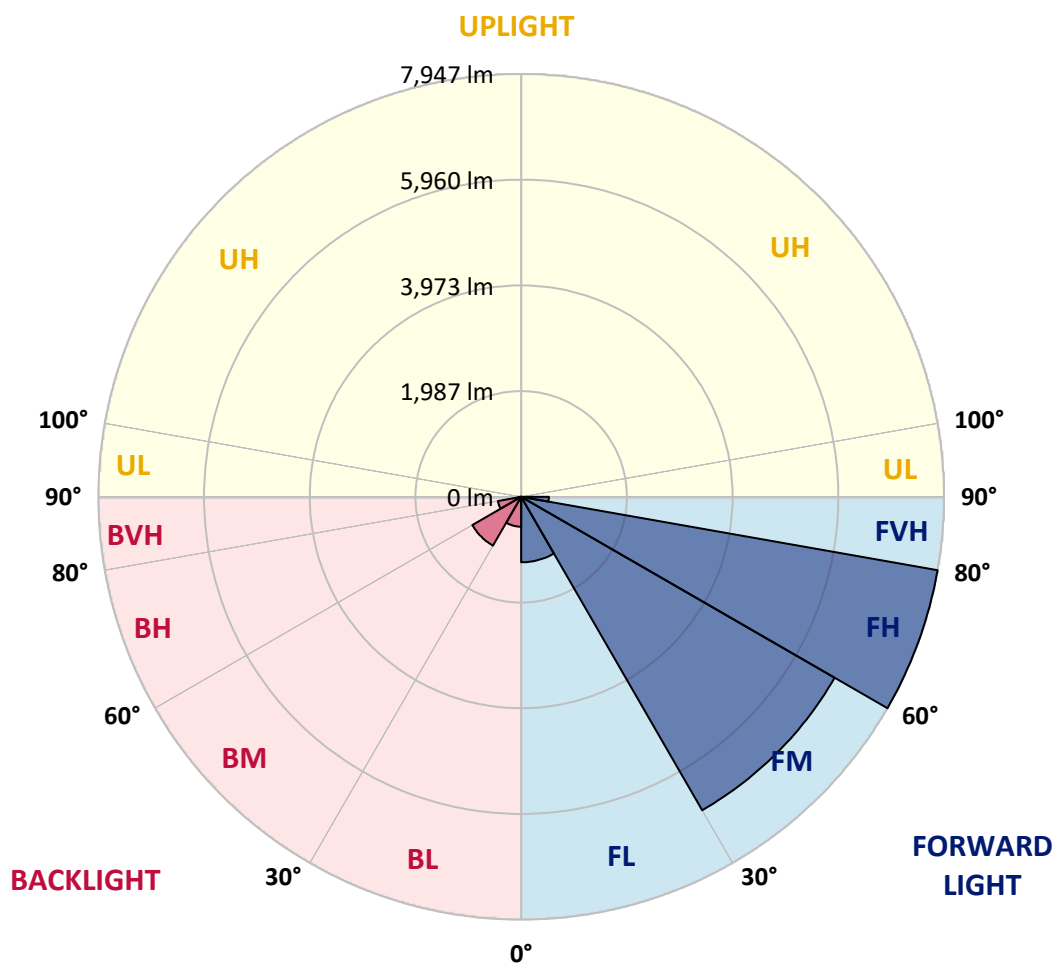
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1231.2	6.6			
FM	(30°-60°)	6802.3	36.5			
FH	(60°-80°)	7946.7	42.7			G4/12000
FVH	(80°-90°)	520.3	2.8			G4/750
BL	(0°-30°)	561.7	3.0	B2/1000		
BM	(30°-60°)	1059.7	5.7	B2/2500		
BH	(60°-80°)	444.5	2.4	B1/500		G1/500
BVH	(80°-90°)	51.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5
2.5°	2881.4	2880.5	2872.9	2867.2	2862.5	2860.6	2864.4	2850.2	2837.9	2822.7	2806.6
5°	2859.6	2858.7	2846.4	2835.0	2823.7	2819.9	2818.9	2793.4	2778.2	2755.5	2725.2
7.5°	2836.0	2831.2	2815.1	2796.2	2776.3	2766.9	2757.4	2724.3	2707.2	2684.5	2649.5
10°	2811.4	2805.7	2790.5	2771.6	2752.7	2738.5	2722.4	2690.2	2672.2	2655.2	2614.5
12.5°	2785.8	2781.1	2777.3	2768.8	2755.5	2743.2	2730.9	2703.4	2684.5	2664.6	2617.3
15°	2782.0	2780.1	2788.6	2794.3	2786.7	2779.2	2765.9	2742.3	2722.4	2702.5	2641.0
17.5°	2812.3	2811.4	2833.1	2848.3	2844.5	2831.2	2813.2	2786.7	2770.7	2753.6	2676.9
20°	2878.6	2883.3	2909.8	2929.7	2910.7	2891.8	2862.5	2825.6	2817.0	2809.5	2713.9
22.5°	3003.5	3008.2	3027.2	3034.7	2985.5	2958.1	2917.4	2870.0	2864.4	2870.0	2758.3
25°	3198.5	3193.8	3190.9	3162.5	3072.6	3030.0	2978.0	2928.7	2931.6	2957.1	2820.8
27.5°	3456.9	3431.4	3391.6	3306.4	3163.5	3116.2	3052.7	3007.3	3025.3	3074.5	2914.5
30°	3724.8	3696.4	3604.6	3465.4	3282.8	3230.7	3159.7	3108.6	3155.9	3233.5	3039.5
32.5°	3972.8	3969.0	3834.6	3655.7	3447.5	3402.0	3331.0	3273.3	3350.0	3468.3	3226.9
35°	4243.5	4252.1	4091.1	3876.3	3669.9	3622.6	3571.5	3527.9	3630.2	3793.0	3498.6
37.5°	4533.2	4550.2	4360.0	4117.6	3923.6	3903.7	3873.4	3854.5	4012.6	4237.9	3878.2
40°	4920.3	4903.3	4639.2	4390.3	4235.0	4234.1	4224.6	4247.3	4510.5	4819.1	4365.6
42.5°	5334.9	5284.8	4935.5	4682.8	4576.7	4608.9	4627.9	4720.6	5109.7	5525.2	4960.1
45°	5781.7	5669.1	5243.1	4992.3	4956.3	5024.5	5088.8	5290.5	5814.9	6328.9	5611.4
47.5°	6138.6	6029.7	5561.2	5317.0	5395.5	5498.7	5622.7	5941.7	6604.3	7159.0	6254.1
50°	6419.7	6348.7	5882.1	5695.6	5879.2	6038.3	6240.8	6679.1	7426.0	7967.4	6849.5
52.5°	6692.4	6639.3	6205.8	6083.7	6447.2	6666.8	6942.2	7470.4	8268.4	8762.5	7350.2
55°	6938.5	6900.6	6554.2	6567.4	7115.5	7401.3	7747.8	8371.6	9186.6	9471.5	7774.3
57.5°	7215.8	7167.5	6951.7	7174.2	7974.0	8345.1	8795.7	9384.4	10048.0	10101.9	8097.1
60°	7495.1	7453.4	7392.8	7874.6	9064.5	9454.5	9881.4	10366.0	10921.7	10591.3	8078.2
62.5°	7737.4	7742.1	7849.1	8610.1	10132.2	10583.8	11104.4	11583.4	11712.1	10676.5	7480.9
65°	8148.2	8223.0	8542.0	9651.4	11635.4	12239.3	12878.3	12801.6	11930.7	9880.4	6200.1
67.5°	8636.6	8768.2	9414.7	11039.1	13535.2	14337.0	14584.0	13077.1	11055.2	8031.8	4419.6
70°	8587.4	8768.2	9791.5	12073.7	15100.9	15638.5	14888.8	11835.1	8778.6	5246.9	2347.5
72.5°	7625.7	7884.1	9023.8	11599.4	14607.7	14560.4	12925.6	8823.1	5215.7	2107.1	917.2
75°	5812.0	6073.3	7053.9	9163.9	11545.5	11147.9	9171.5	4874.0	1979.3	836.8	578.4
77.5°	3343.3	3545.9	4303.2	5619.9	7324.7	6916.7	5104.9	2167.7	963.6	583.1	451.5
80°	1866.7	1979.3	2439.3	2851.1	3589.4	3290.3	2284.1	1347.0	719.4	423.1	348.3
82.5°	1475.7	1576.1	1972.7	1798.5	1639.5	1512.6	1312.0	1199.3	574.6	266.9	208.2
85°	1289.2	1384.9	1669.8	1416.1	1119.8	1027.0	1065.9	1180.4	446.8	160.9	178.0
87.5°	1194.6	1322.4	1488.0	1091.4	871.8	772.4	983.5	1294.0	143.9	100.3	71.9
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°	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5	2826.5
2.5°	2792.4	2777.3	2752.7	2730.9	2696.8	2678.8	2659.0	2644.8	2633.4	2623.9	2639.1
5°	2706.3	2677.9	2625.8	2570.0	2503.7	2451.7	2408.1	2367.4	2339.0	2320.1	2333.3
7.5°	2624.9	2578.5	2497.1	2395.8	2282.2	2185.7	2106.2	2036.1	1987.8	1956.6	1968.9
10°	2578.5	2520.8	2394.9	2235.8	2068.3	1917.8	1792.8	1684.9	1610.1	1567.5	1574.2
12.5°	2567.1	2492.4	2318.2	2099.5	1870.5	1661.3	1485.2	1335.6	1230.6	1175.7	1177.6
15°	2575.7	2480.1	2246.2	1968.9	1679.2	1415.1	1195.5	1013.8	891.7	829.2	828.3
17.5°	2589.9	2470.6	2170.5	1827.9	1485.2	1178.5	933.3	755.4	647.5	597.3	593.5
20°	2605.0	2455.4	2085.3	1675.5	1283.6	958.9	730.8	591.6	523.5	496.0	494.1
22.5°	2626.8	2442.2	1997.3	1514.5	1085.7	780.9	601.1	507.4	471.4	457.2	455.3
25°	2661.8	2435.6	1903.6	1347.0	907.8	653.1	523.5	465.7	444.9	435.4	434.5
27.5°	2720.5	2445.0	1815.5	1184.2	762.9	567.0	479.9	444.9	429.7	421.2	420.3
30°	2796.2	2474.4	1722.8	1029.9	650.3	508.3	453.4	430.7	418.4	409.9	409.9
32.5°	2922.1	2523.6	1625.3	896.4	569.8	467.6	433.5	418.4	408.0	401.4	400.4
35°	3107.6	2616.4	1534.4	785.7	512.1	438.3	416.5	405.1	397.6	393.8	393.8
37.5°	3377.4	2763.1	1454.0	706.2	477.1	418.4	400.4	391.9	387.2	387.2	387.2
40°	3740.0	2965.6	1388.6	653.1	457.2	404.2	388.1	381.5	378.6	379.6	379.6
42.5°	4187.7	3228.8	1345.1	616.2	447.7	395.7	379.6	373.9	371.1	370.1	371.1
45°	4697.9	3527.9	1340.4	588.8	438.3	390.0	373.9	368.2	362.5	358.8	358.8
47.5°	5193.9	3831.8	1379.2	579.3	427.9	383.4	369.2	363.5	355.0	346.4	346.4
50°	5632.2	4090.2	1431.2	583.1	424.1	373.9	361.6	358.8	345.5	336.0	335.1
52.5°	5980.5	4289.0	1473.8	594.5	427.9	367.3	352.1	353.1	338.9	328.5	327.5
55°	6259.8	4419.6	1462.5	605.8	436.4	363.5	343.6	345.5	334.1	323.7	323.7
57.5°	6381.9	4371.3	1336.6	596.3	443.0	364.4	337.0	344.6	335.1	325.6	325.6
60°	6119.7	3942.5	1100.9	554.7	434.5	361.6	334.1	348.3	347.4	337.9	337.0
62.5°	5326.4	3174.8	853.8	493.2	405.1	347.4	326.6	347.4	357.8	355.0	354.0
65°	4105.3	2261.4	652.2	426.9	365.4	323.7	306.7	325.6	339.8	343.6	342.7
67.5°	2664.6	1385.8	502.6	364.4	320.9	296.3	281.1	289.7	292.5	292.5	290.6
70°	1310.1	745.9	400.4	306.7	275.5	266.9	258.4	253.7	249.0	245.2	245.2
72.5°	646.5	487.5	329.4	259.4	237.6	233.8	231.9	226.2	222.4	217.7	215.8
75°	478.0	396.6	280.2	218.7	204.5	200.7	204.5	199.7	198.8	195.0	193.1
77.5°	392.8	337.9	241.4	187.4	175.1	168.5	174.2	175.1	176.1	170.4	168.5
80°	319.0	285.9	201.6	155.2	143.9	139.1	142.9	150.5	152.4	143.9	140.1
82.5°	230.0	233.8	162.8	121.2	111.7	107.9	115.5	124.9	126.8	114.5	111.7
85°	193.1	195.0	124.9	86.1	76.7	71.0	83.3	92.8	99.4	87.1	84.2
87.5°	80.5	114.5	71.9	48.3	42.6	36.9	44.5	49.2	59.6	54.9	54.0
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)