

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: P319208

Luminaire Tested: **GAN-SA4C-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22515 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

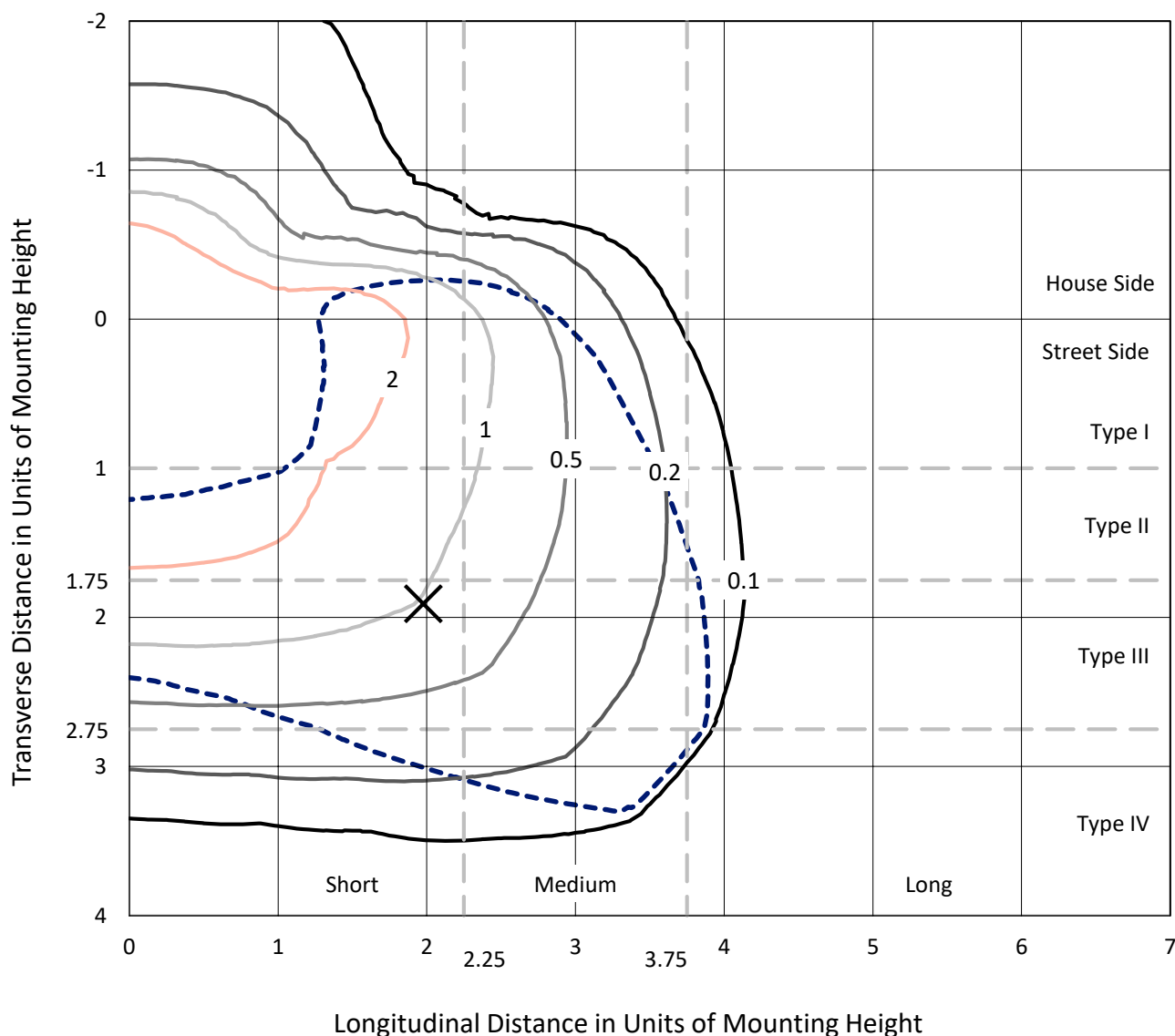
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

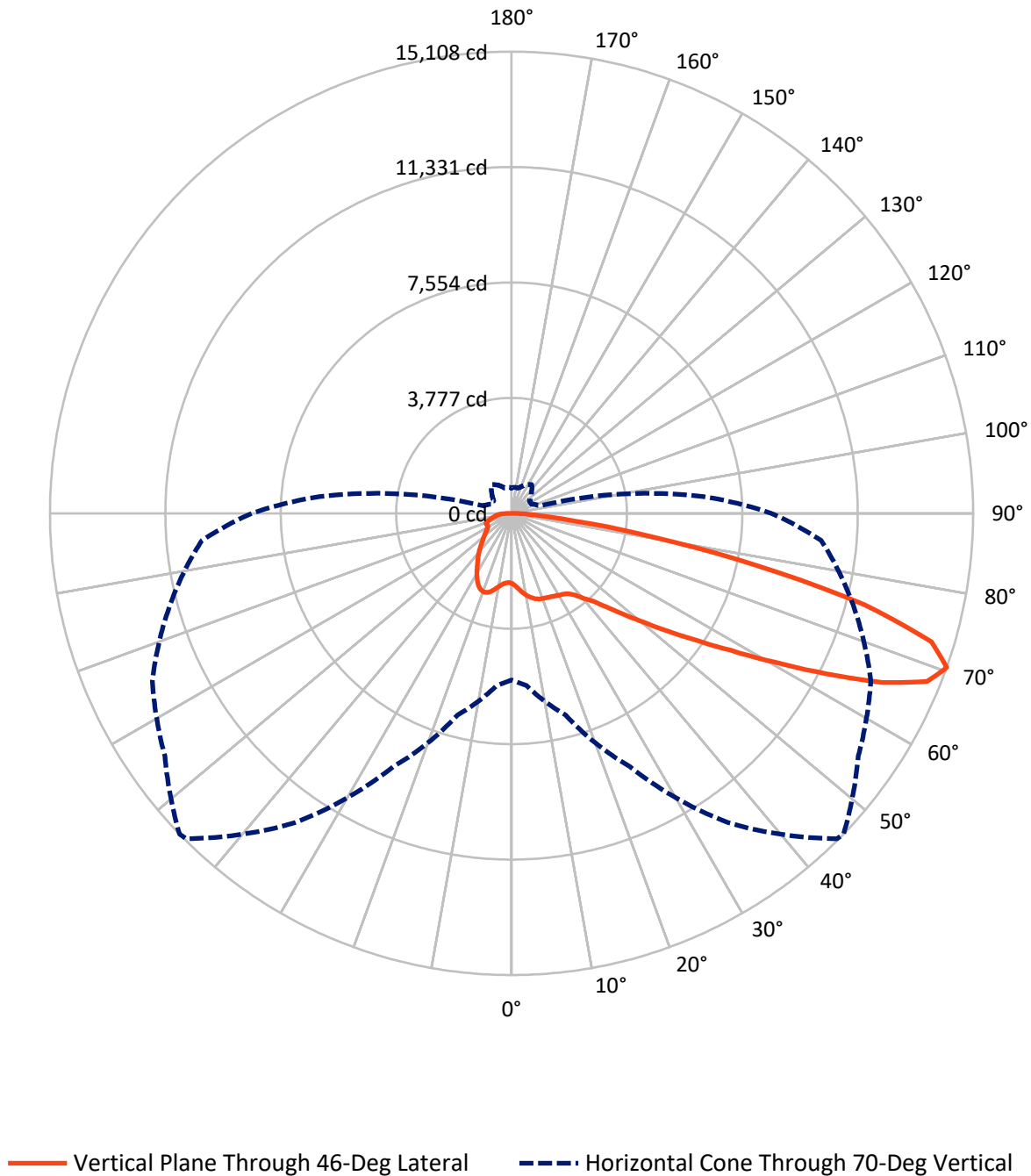
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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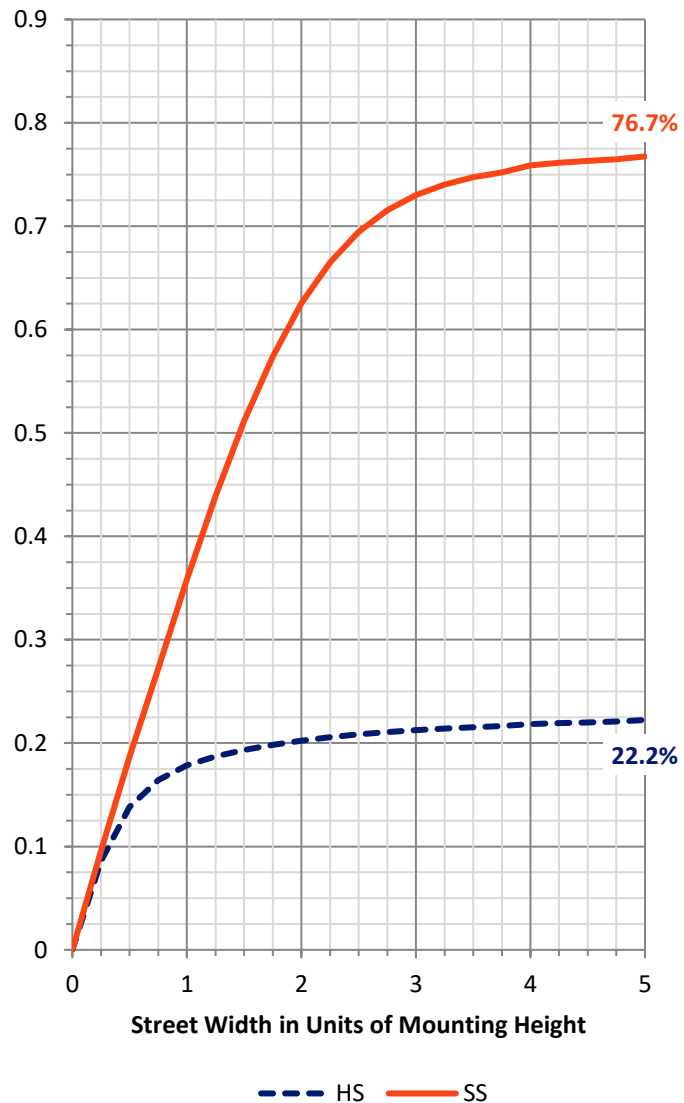
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5160.4	0.0	5160.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17354.6	0.0	17354.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	22515.0	0.0	22515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	1.0
10°-20°	779.1	3.5
20°-30°	1299.0	5.8
30°-40°	1843.4	8.2
40°-50°	2711.6	12.0
50°-60°	4592.0	20.4
60°-70°	6518.3	29.0
70°-80°	3959.9	17.6
80°-90°	577.9	2.6
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°	22515.0	100.0
0°-180°	22515.0	100.0

Coefficient of Utilization



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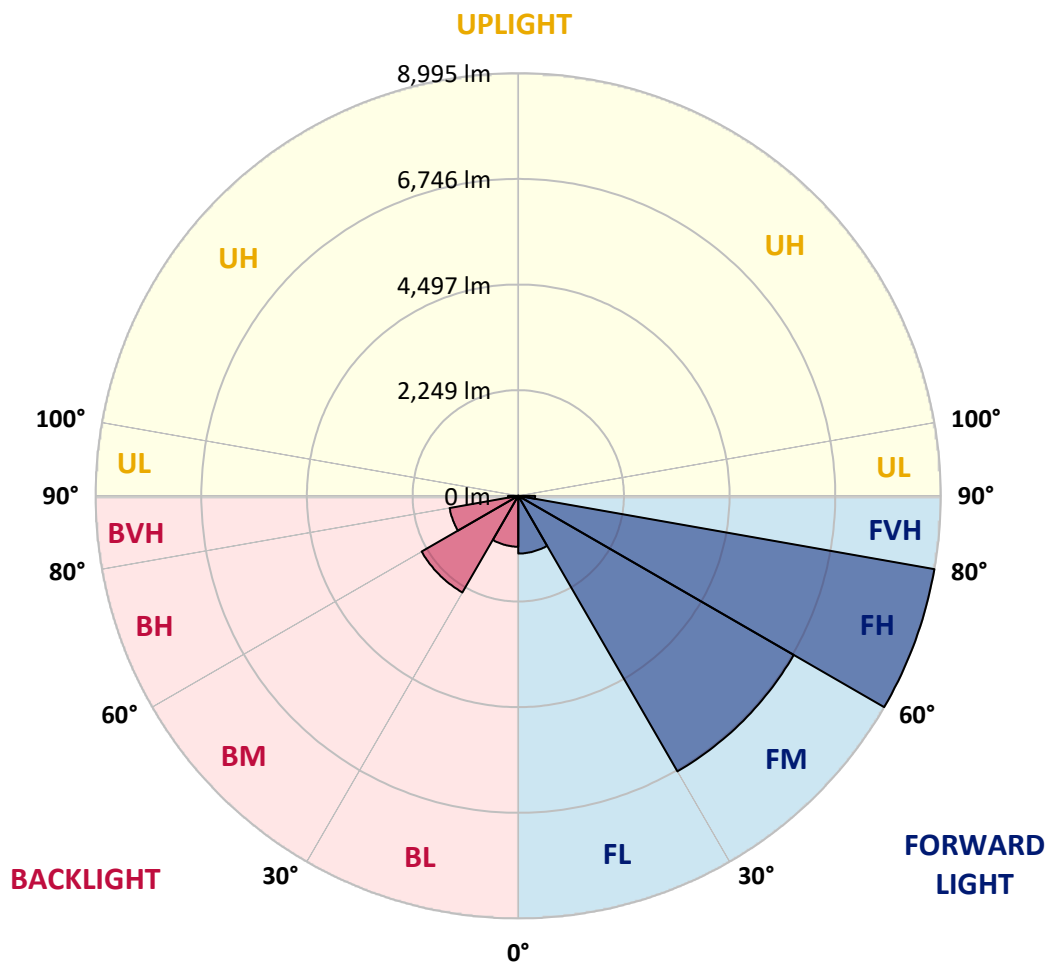
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1228.5	5.5			
FM	(30°-60°)	6771.5	30.1			
FH	(60°-80°)	8994.6	39.9			G4/12000
FVH	(80°-90°)	360.0	1.6			G3/500
BL	(0°-30°)	1083.4	4.8	B3/2500		
BM	(30°-60°)	2375.5	10.6	B2/2500		
BH	(60°-80°)	1483.6	6.6	B3/2500		G3/2500
BVH	(80°-90°)	217.9	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8
2.5°	2408.6	2410.2	2413.3	2405.6	2384.0	2377.8	2375.5	2353.2	2338.5	2317.0	2298.5
5°	2601.3	2602.8	2598.2	2576.6	2528.8	2493.4	2490.3	2439.5	2393.2	2343.9	2306.9
7.5°	2802.4	2804.7	2790.1	2749.2	2682.2	2620.5	2616.7	2547.3	2477.2	2402.5	2347.0
10°	2980.4	2971.1	2947.2	2890.2	2810.9	2735.3	2732.3	2659.8	2578.9	2488.8	2414.8
12.5°	3099.0	3091.3	3060.5	2991.2	2904.1	2834.7	2828.6	2761.5	2683.0	2584.3	2495.7
15°	3164.5	3169.9	3128.3	3049.7	2965.0	2906.4	2901.0	2853.2	2783.1	2683.7	2582.0
17.5°	3173.0	3177.6	3137.6	3059.7	2990.4	2950.3	2948.0	2916.4	2865.6	2770.0	2663.7
20°	3123.7	3126.8	3093.6	3029.7	2984.2	2971.9	2971.1	2957.3	2919.5	2834.7	2731.5
22.5°	3052.0	3054.3	3030.5	2984.2	2968.8	2988.1	2993.5	2988.1	2961.1	2881.7	2784.7
25°	3034.3	3032.8	3008.1	2961.1	2974.2	3015.0	3022.0	3024.3	3005.8	2936.5	2852.5
27.5°	3119.8	3114.4	3067.4	2991.9	3000.4	3049.7	3059.0	3081.3	3069.8	3008.9	2929.5
30°	3367.2	3357.9	3261.6	3109.0	3067.4	3092.9	3104.4	3139.9	3142.2	3091.3	3032.0
32.5°	3784.8	3773.2	3600.6	3327.9	3180.7	3136.8	3147.6	3200.7	3229.2	3190.0	3126.0
35°	4312.6	4299.5	4073.0	3700.0	3370.3	3220.8	3228.5	3270.9	3327.9	3272.4	3187.6
37.5°	4862.8	4831.2	4613.1	4137.7	3671.5	3400.3	3400.3	3405.7	3432.7	3317.1	3260.1
40°	5409.8	5378.2	5181.0	4652.4	4061.4	3683.1	3665.4	3545.9	3524.4	3425.0	3405.7
42.5°	5918.4	5909.1	5792.8	5234.1	4519.1	3961.2	3936.6	3733.9	3738.6	3676.9	3677.7
45°	6459.3	6459.3	6364.5	5821.3	5052.3	4408.1	4383.5	4085.3	4131.5	4103.0	4171.6
47.5°	6900.8	6914.6	6901.5	6433.1	5672.6	4976.0	4931.3	4572.3	4701.7	4799.6	4999.1
50°	7351.5	7373.1	7375.4	7104.2	6422.3	5651.0	5600.1	5218.7	5507.7	5788.1	6180.3
52.5°	8005.7	8054.2	7860.8	7773.8	7340.7	6452.3	6402.3	6050.1	6532.5	6926.2	7601.9
55°	8612.1	8569.7	8431.8	8485.7	8323.9	7364.6	7326.9	7017.9	7674.4	8186.0	9063.6
57.5°	8940.3	8937.3	9076.0	9307.1	9384.2	8489.6	8458.0	8157.5	8961.9	9346.4	10435.9
60°	9325.6	9331.0	9674.6	10199.4	10516.8	9890.4	9876.5	9648.5	10212.5	10429.8	11512.3
62.5°	9379.5	9476.6	10068.4	10971.4	11577.1	11527.0	11557.8	10991.5	11331.3	11294.3	12316.0
65°	8759.3	8887.2	9958.2	11204.9	12631.1	13316.9	13345.4	12342.2	12213.5	12033.2	12603.4
67.5°	7487.9	7677.5	8840.9	10697.1	12978.6	14639.9	14679.9	13389.3	12945.5	12283.6	11911.5
70°	5449.1	5659.5	6830.7	9136.1	12359.1	15062.9	15108.4	13852.4	12973.2	11570.9	10168.6
72.5°	3291.7	3456.6	4422.0	6725.9	10431.3	14292.4	14373.3	13265.3	11844.4	9801.0	7508.7
75°	1445.5	1553.4	2138.2	3875.7	7467.9	11825.2	11926.1	11354.4	9623.8	7122.7	4438.2
77.5°	615.6	646.5	876.9	1683.6	4221.7	8080.4	8219.1	8296.2	6529.4	3875.7	1875.4
80°	383.7	396.0	496.2	762.0	1975.6	4538.4	4687.8	4881.2	3242.3	1424.7	654.9
82.5°	233.5	247.3	329.8	460.8	1028.6	2057.3	2128.9	2265.3	1258.3	615.6	339.0
85°	140.2	150.3	201.9	291.3	585.6	809.0	808.3	893.8	592.5	396.0	178.8
87.5°	67.0	74.7	107.9	151.0	295.1	303.6	284.3	322.1	359.8	259.7	90.2
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°	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8	2293.8
2.5°	2292.3	2289.2	2279.2	2271.5	2270.0	2265.3	2261.5	2263.8	2266.9	2267.6	2267.6
5°	2291.5	2283.1	2270.0	2264.6	2271.5	2280.7	2292.3	2307.7	2317.0	2323.9	2328.5
7.5°	2328.5	2312.3	2297.7	2294.6	2308.5	2333.1	2359.3	2391.7	2414.0	2429.4	2432.5
10°	2390.2	2370.1	2355.5	2358.6	2383.2	2418.7	2455.6	2497.3	2531.2	2552.0	2553.5
12.5°	2461.0	2441.8	2427.9	2441.0	2481.8	2525.0	2563.5	2599.7	2630.6	2651.4	2651.4
15°	2542.7	2528.8	2512.7	2542.7	2598.2	2636.7	2652.9	2670.6	2687.6	2703.0	2699.9
17.5°	2621.3	2608.2	2599.7	2635.2	2693.0	2710.7	2699.9	2686.8	2686.8	2695.3	2696.8
20°	2689.1	2677.6	2683.0	2717.6	2747.7	2729.2	2689.1	2647.5	2630.6	2635.2	2639.8
22.5°	2748.4	2743.1	2759.2	2775.4	2753.8	2689.1	2615.1	2558.9	2538.1	2536.6	2538.1
25°	2817.8	2817.0	2837.1	2807.8	2712.2	2592.8	2493.4	2438.7	2427.1	2436.4	2451.8
27.5°	2904.1	2912.6	2922.6	2815.5	2627.5	2447.2	2346.2	2308.5	2320.0	2342.4	2357.0
30°	3014.3	3037.4	3015.8	2796.2	2505.7	2280.7	2184.4	2173.6	2205.2	2236.8	2252.2
32.5°	3121.4	3157.6	3105.2	2746.1	2348.5	2104.3	2029.5	2026.5	2065.0	2095.8	2117.4
35°	3207.7	3279.3	3172.2	2646.7	2166.7	1941.7	1887.0	1866.2	1880.1	1916.3	1940.9
37.5°	3320.2	3439.6	3218.5	2494.9	1969.4	1807.6	1743.7	1695.9	1683.6	1698.2	1710.6
40°	3525.9	3683.9	3240.0	2283.1	1776.8	1673.6	1608.8	1538.7	1490.2	1454.7	1455.5
42.5°	3861.8	4002.1	3226.2	2025.7	1598.8	1542.6	1469.4	1388.5	1309.9	1229.7	1223.6
45°	4407.4	4475.2	3184.6	1752.9	1442.4	1405.4	1336.9	1255.9	1151.2	1060.2	1051.8
47.5°	5280.4	5130.1	3119.8	1514.8	1304.5	1289.1	1225.9	1132.7	1021.7	948.5	942.3
50°	6470.8	6075.5	3088.2	1325.3	1182.7	1187.4	1135.7	1037.1	932.3	878.4	872.2
52.5°	7894.7	7176.6	3149.1	1178.9	1084.9	1101.1	1062.5	970.1	882.2	839.9	833.7
55°	9371.8	8317.0	3214.6	1072.6	992.4	1024.0	1010.9	934.6	855.3	816.0	810.6
57.5°	10636.3	9168.4	3083.6	986.3	910.0	959.3	970.9	912.3	841.4	806.0	799.8
60°	11432.2	9511.3	2740.0	905.4	844.5	907.7	947.7	906.1	846.8	843.7	839.1
62.5°	11809.8	9481.2	2224.5	841.4	803.7	885.3	964.7	940.8	908.4	936.2	938.5
65°	11640.2	9028.2	1656.6	799.0	774.4	893.8	1015.5	1006.3	926.2	953.9	957.8
67.5°	10524.5	7947.1	1226.7	762.0	742.0	917.7	1108.0	1027.9	891.5	911.5	899.2
70°	8506.5	6300.5	946.2	720.4	708.9	914.6	1149.6	1014.8	853.7	858.4	825.2
72.5°	5866.0	4296.4	769.7	681.9	661.1	833.7	1120.3	982.4	822.1	786.7	742.8
75°	3190.0	2306.2	654.2	641.8	577.1	732.0	1066.4	959.3	793.6	746.6	722.0
77.5°	1255.2	957.0	567.9	587.1	504.7	646.5	1006.3	915.4	754.3	692.7	680.4
80°	512.4	488.5	470.8	507.8	433.8	565.6	933.9	863.8	707.3	642.6	618.0
82.5°	290.5	303.6	366.0	400.7	352.1	520.9	899.2	822.1	651.1	575.6	546.3
85°	148.7	178.0	255.0	287.4	258.9	443.0	828.3	719.7	522.4	440.7	443.0
87.5°	71.7	99.4	161.0	180.3	168.0	320.5	618.7	521.6	406.8	322.1	312.1
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)