

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: P319199

Luminaire Tested: **GAN-SA5B-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319199
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-SA5B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22538 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

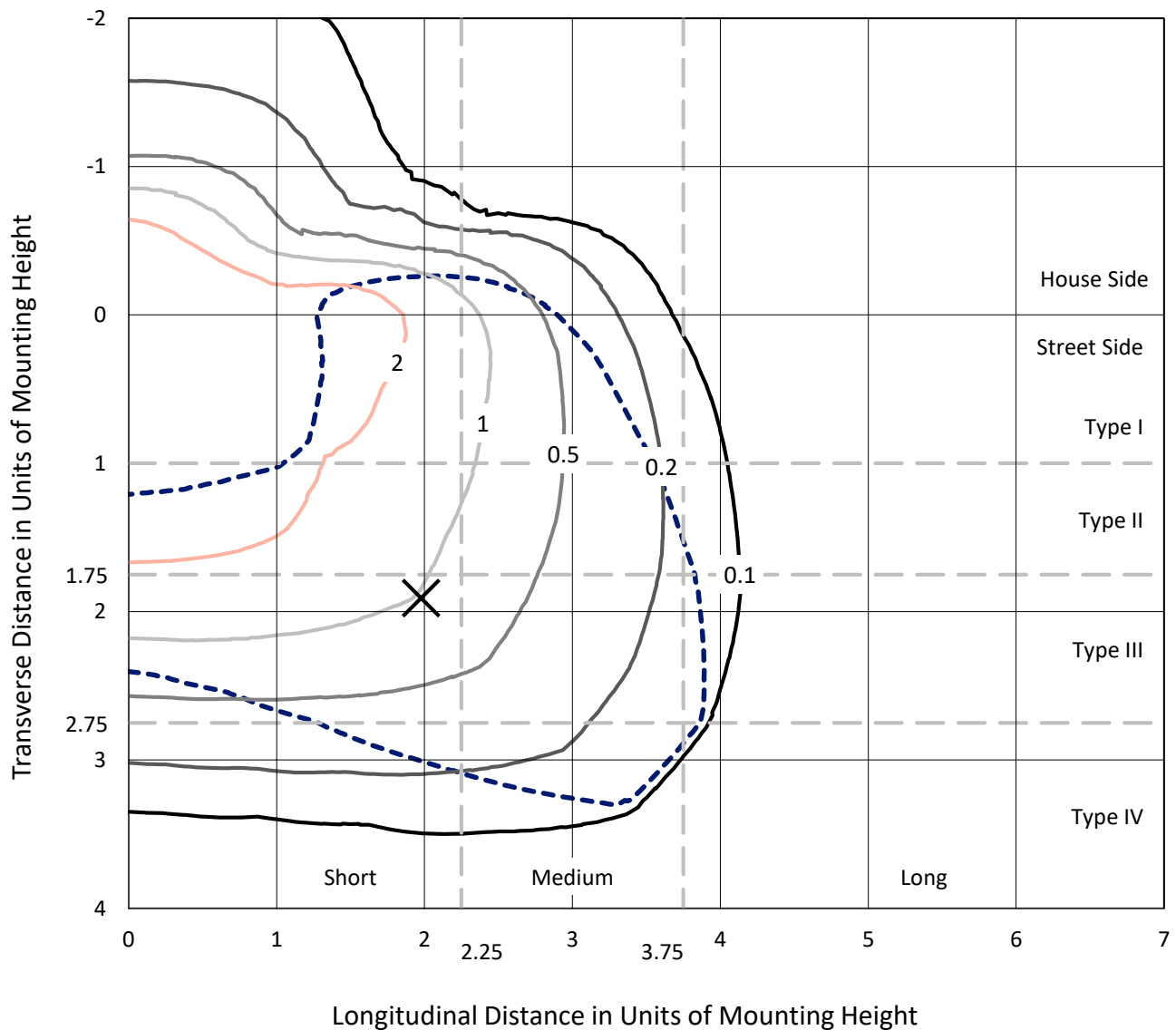
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

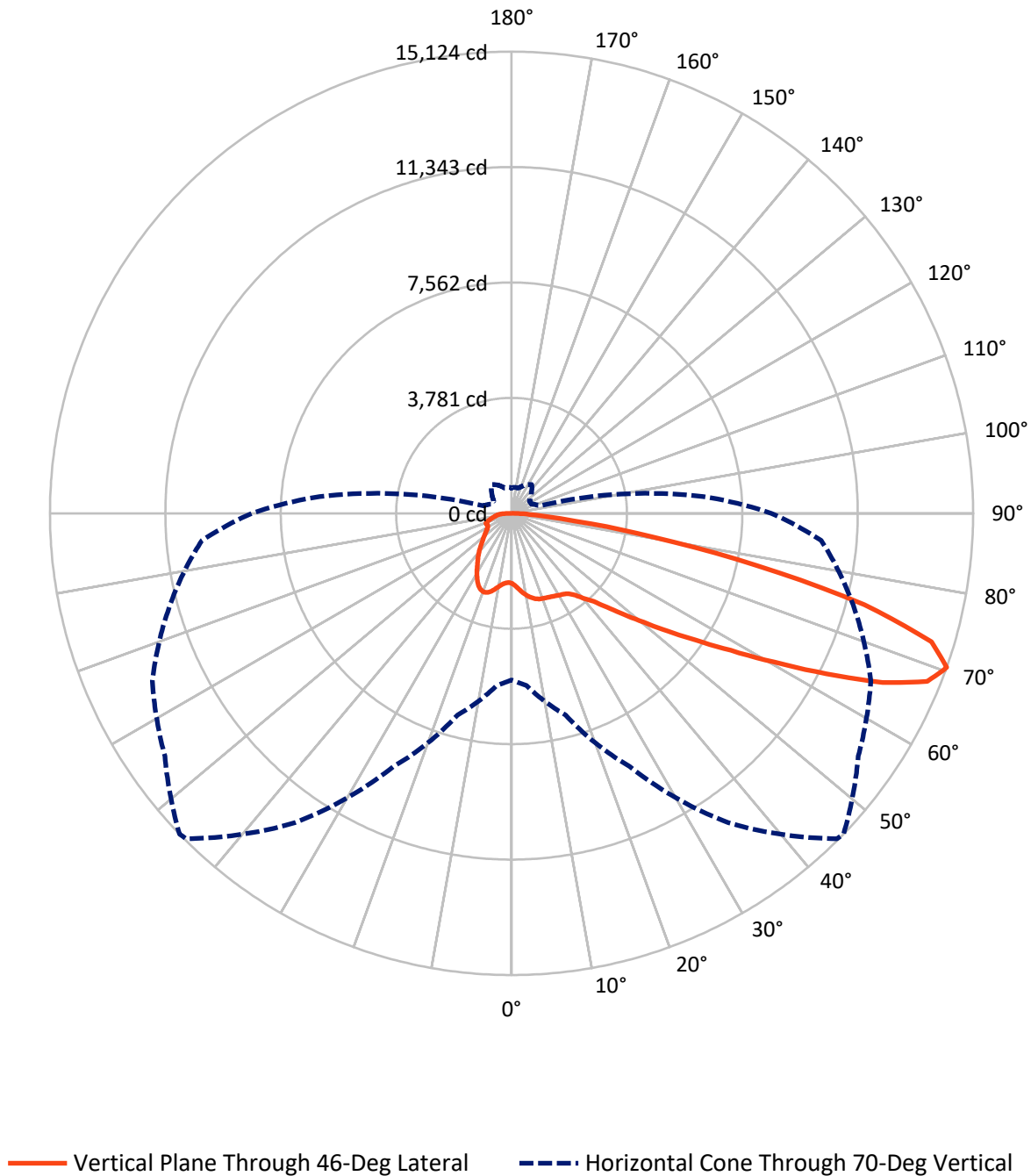
✕ Max cd
 - - - 1/2 Max cd



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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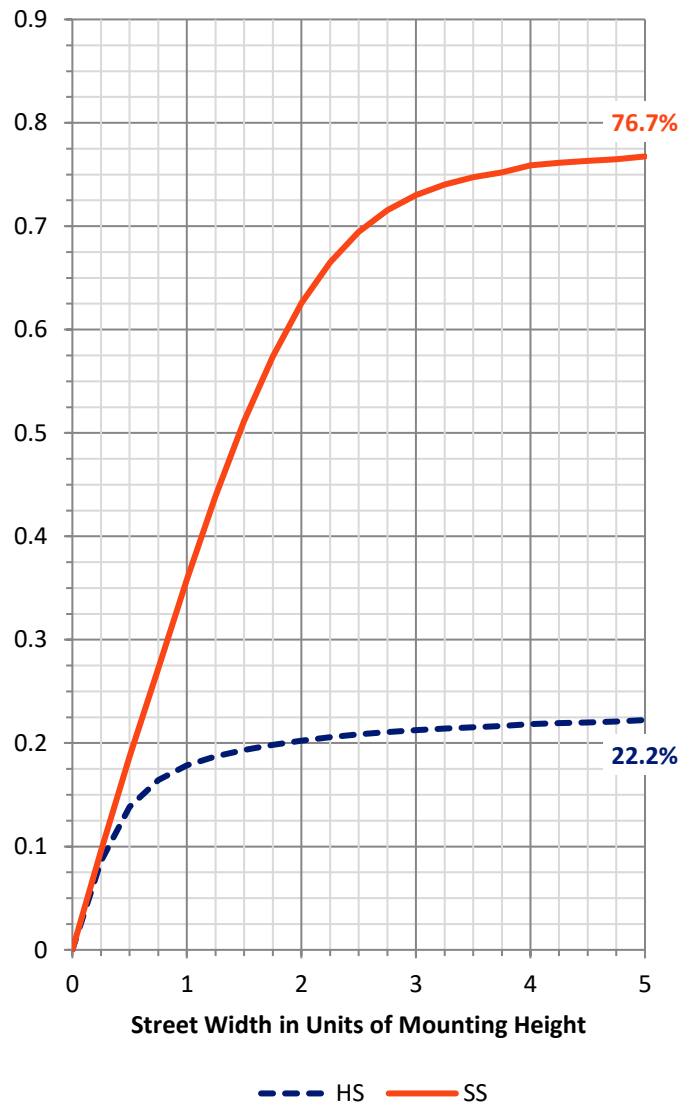
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5165.6	0.0	5165.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17372.4	0.0	17372.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	22538.0	0.0	22538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	1.0
10°-20°	779.9	3.5
20°-30°	1300.4	5.8
30°-40°	1845.3	8.2
40°-50°	2714.3	12.0
50°-60°	4596.7	20.4
60°-70°	6524.9	29.0
70°-80°	3964.0	17.6
80°-90°	578.5	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°	22538.0	100.0
0°-180°	22538.0	100.0

Coefficient of Utilization



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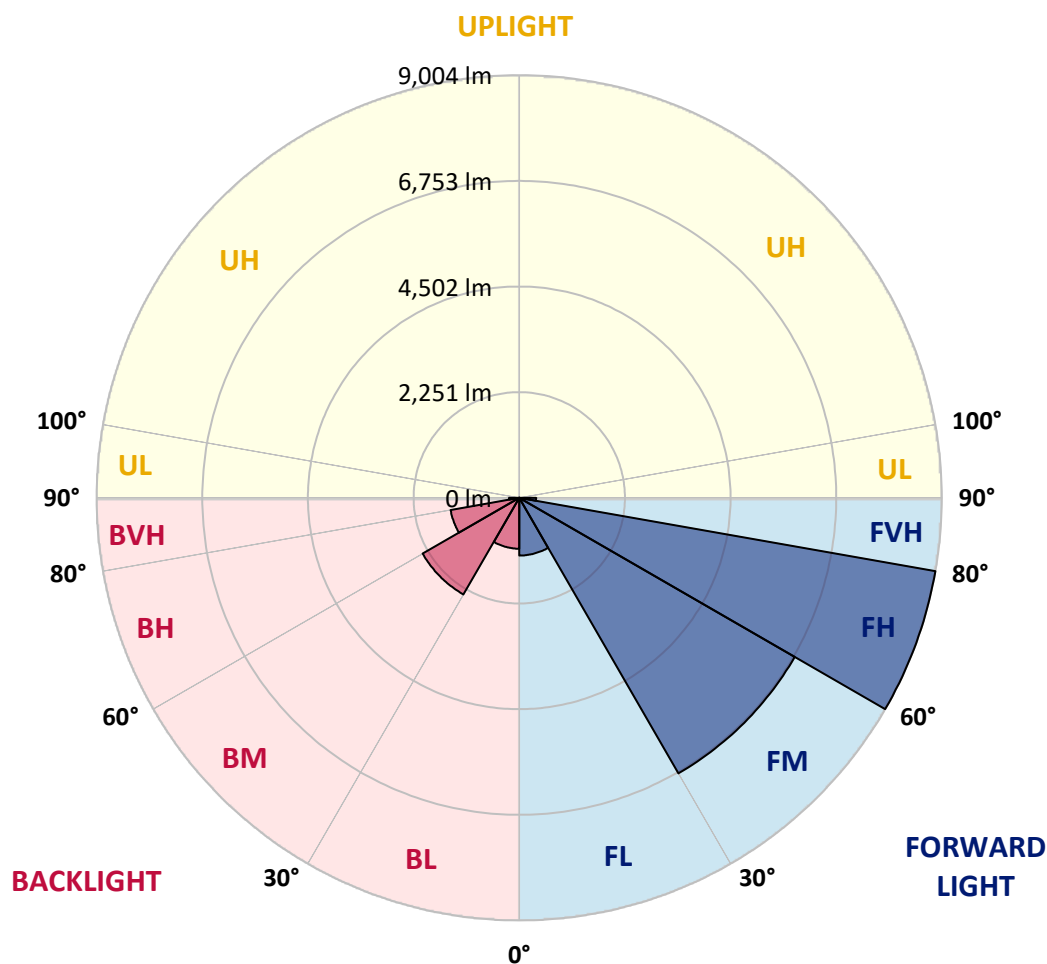
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1229.8	5.5			
FM	(30°-60°)	6778.4	30.1			
FH	(60°-80°)	9003.8	39.9			G4/12000
FVH	(80°-90°)	360.3	1.6			G3/500
BL	(0°-30°)	1084.5	4.8	B3/2500		
BM	(30°-60°)	2377.9	10.6	B2/2500		
BH	(60°-80°)	1485.1	6.6	B3/2500		G3/2500
BVH	(80°-90°)	218.1	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°	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2
2.5°	2411.1	2412.6	2415.7	2408.0	2386.4	2380.3	2377.9	2355.6	2340.9	2319.3	2300.8
5°	2603.9	2605.5	2600.8	2579.3	2531.4	2495.9	2492.9	2442.0	2395.7	2346.3	2309.3
7.5°	2805.2	2807.6	2792.9	2752.0	2684.9	2623.2	2619.4	2549.9	2479.8	2404.9	2349.4
10°	2983.4	2974.2	2950.2	2893.2	2813.7	2738.1	2735.1	2662.6	2581.6	2491.3	2417.3
12.5°	3102.2	3094.5	3063.6	2994.2	2907.1	2837.6	2831.5	2764.4	2685.7	2587.0	2498.3
15°	3167.8	3173.2	3131.5	3052.8	2968.0	2909.4	2904.0	2856.1	2786.0	2686.5	2584.6
17.5°	3176.2	3180.9	3140.8	3062.9	2993.4	2953.3	2951.0	2919.4	2868.5	2772.8	2666.4
20°	3126.9	3130.0	3096.8	3032.8	2987.3	2974.9	2974.2	2960.3	2922.5	2837.6	2734.3
22.5°	3055.1	3057.5	3033.6	2987.3	2971.8	2991.1	2996.5	2991.1	2964.1	2884.7	2787.5
25°	3037.4	3035.9	3011.2	2964.1	2977.2	3018.1	3025.1	3027.4	3008.9	2939.5	2855.4
27.5°	3123.0	3117.6	3070.6	2995.0	3003.5	3052.8	3062.1	3084.5	3072.9	3012.0	2932.5
30°	3370.6	3361.4	3264.9	3112.2	3070.6	3096.0	3107.6	3143.1	3145.4	3094.5	3035.1
32.5°	3788.7	3777.1	3604.3	3331.3	3184.0	3140.0	3150.8	3204.0	3232.5	3193.2	3129.2
35°	4317.0	4303.9	4077.1	3703.8	3373.7	3224.1	3231.8	3274.2	3331.3	3275.7	3190.9
37.5°	4867.7	4836.1	4617.8	4141.9	3675.3	3403.8	3403.8	3409.2	3436.2	3320.5	3263.4
40°	5415.3	5383.7	5186.3	4657.2	4065.6	3686.8	3669.1	3549.6	3528.0	3428.5	3409.2
42.5°	5924.4	5915.2	5798.7	5239.5	4523.7	3965.3	3940.6	3737.8	3742.4	3680.7	3681.4
45°	6465.9	6465.9	6371.0	5827.2	5057.5	4412.6	4388.0	4089.5	4135.7	4107.2	4175.9
47.5°	6907.8	6921.7	6908.6	6439.6	5678.4	4981.1	4936.4	4576.9	4706.5	4804.5	5004.2
50°	7359.0	7380.6	7383.0	7111.5	6428.8	5656.8	5605.9	5224.1	5513.3	5794.1	6186.7
52.5°	8013.9	8062.5	7868.9	7781.7	7348.2	6458.9	6408.8	6056.3	6539.1	6933.3	7609.7
55°	8620.9	8578.5	8440.4	8494.4	8332.4	7372.2	7334.4	7025.1	7682.2	8194.4	9072.9
57.5°	8949.5	8946.4	9085.2	9316.6	9393.7	8498.3	8466.6	8165.8	8971.1	9356.0	10446.6
60°	9335.1	9340.5	9684.5	10209.8	10527.6	9900.5	9886.6	9658.3	10222.9	10440.4	11524.1
62.5°	9389.1	9486.3	10078.7	10982.6	11588.9	11538.8	11569.6	11002.7	11342.8	11305.8	12328.6
65°	8768.2	8896.3	9968.4	11216.3	12644.0	13330.5	13359.0	12354.8	12226.0	12045.5	12616.3
67.5°	7495.6	7685.3	8850.0	10708.1	12991.9	14654.8	14694.9	13403.0	12958.7	12296.2	11923.6
70°	5454.7	5665.3	6837.6	9145.4	12371.8	15078.3	15123.8	13866.6	12986.5	11582.7	10178.9
72.5°	3295.0	3460.1	4426.5	6732.7	10442.0	14307.0	14388.0	13278.8	11856.5	9811.0	7516.4
75°	1447.0	1555.0	2140.4	3879.7	7475.5	11837.2	11938.3	11366.0	9633.6	7130.0	4442.7
77.5°	616.3	647.1	877.7	1685.3	4226.0	8088.7	8227.5	8304.7	6536.1	3879.7	1877.4
80°	384.1	396.5	496.7	762.8	1977.6	4543.0	4692.6	4886.2	3245.7	1426.1	655.6
82.5°	233.7	247.6	330.1	461.2	1029.7	2059.4	2131.1	2267.6	1259.5	616.3	339.4
85°	140.4	150.4	202.1	291.6	586.2	809.9	809.1	894.7	593.1	396.5	178.9
87.5°	67.1	74.8	108.0	151.2	295.4	303.9	284.6	322.4	360.2	259.9	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°	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2
2.5°	2294.6	2291.6	2281.5	2273.8	2272.3	2267.6	2263.8	2266.1	2269.2	2270.0	2270.0
5°	2293.9	2285.4	2272.3	2266.9	2273.8	2283.1	2294.6	2310.1	2319.3	2326.3	2330.9
7.5°	2330.9	2314.7	2300.0	2297.0	2310.8	2335.5	2361.7	2394.1	2416.5	2431.9	2435.0
10°	2392.6	2372.5	2357.9	2361.0	2385.7	2421.1	2458.2	2499.8	2533.7	2554.6	2556.1
12.5°	2463.6	2444.3	2430.4	2443.5	2484.4	2527.6	2566.1	2602.4	2633.2	2654.1	2654.1
15°	2545.3	2531.4	2515.2	2545.3	2600.8	2639.4	2655.6	2673.4	2690.3	2705.7	2702.7
17.5°	2624.0	2610.9	2602.4	2637.9	2695.7	2713.5	2702.7	2689.5	2689.5	2698.0	2699.6
20°	2691.9	2680.3	2685.7	2720.4	2750.5	2732.0	2691.9	2650.2	2633.2	2637.9	2642.5
22.5°	2751.3	2745.9	2762.1	2778.2	2756.7	2691.9	2617.8	2561.5	2540.7	2539.1	2540.7
25°	2820.7	2819.9	2840.0	2810.6	2715.0	2595.4	2495.9	2441.2	2429.6	2438.9	2454.3
27.5°	2907.1	2915.5	2925.6	2818.4	2630.2	2449.7	2348.6	2310.8	2322.4	2344.8	2359.4
30°	3017.4	3040.5	3018.9	2799.1	2508.3	2283.1	2186.7	2175.9	2207.5	2239.1	2254.5
32.5°	3124.6	3160.8	3108.4	2748.9	2350.9	2106.4	2031.6	2028.5	2067.1	2098.0	2119.6
35°	3211.0	3282.7	3175.5	2649.4	2168.9	1943.7	1888.9	1868.1	1882.0	1918.2	1942.9
37.5°	3323.6	3443.1	3221.7	2497.5	1971.5	1809.5	1745.5	1697.6	1685.3	1700.0	1712.3
40°	3529.5	3687.6	3243.3	2285.4	1778.6	1675.3	1610.5	1540.3	1491.7	1456.2	1457.0
42.5°	3865.8	4006.2	3229.5	2027.8	1600.5	1544.2	1470.9	1389.9	1311.2	1231.0	1224.8
45°	4411.9	4479.8	3187.8	1754.7	1443.9	1406.9	1338.2	1257.2	1152.3	1061.3	1052.8
47.5°	5285.8	5135.4	3123.0	1516.4	1305.8	1290.4	1227.1	1133.8	1022.8	949.5	943.3
50°	6477.4	6081.8	3091.4	1326.6	1184.0	1188.6	1136.9	1038.2	933.3	879.3	873.1
52.5°	7902.8	7184.0	3152.3	1180.1	1086.0	1102.2	1063.6	971.1	883.1	840.7	834.6
55°	9381.4	8325.5	3217.9	1073.7	993.4	1025.1	1012.0	935.6	856.2	816.8	811.4
57.5°	10647.1	9177.8	3086.8	987.3	910.9	960.3	971.8	913.2	842.3	806.8	800.6
60°	11443.9	9521.0	2742.8	906.3	845.4	908.6	948.7	907.1	847.7	844.6	840.0
62.5°	11821.8	9490.9	2226.8	842.3	804.5	886.2	965.7	941.8	909.4	937.1	939.5
65°	11652.1	9037.4	1658.3	799.8	775.2	894.7	1016.6	1007.3	927.1	954.9	958.7
67.5°	10535.3	7955.3	1227.9	762.8	742.8	918.6	1109.1	1028.9	892.4	912.5	900.1
70°	8515.2	6307.0	947.2	721.2	709.6	915.5	1150.8	1015.8	854.6	859.2	826.1
72.5°	5872.0	4300.8	770.5	682.6	661.8	834.6	1121.5	983.4	823.0	787.5	743.5
75°	3193.2	2308.5	654.8	642.5	577.7	732.7	1067.5	960.3	794.4	747.4	722.7
77.5°	1256.5	958.0	568.5	587.7	505.2	647.1	1007.3	916.3	755.1	693.4	681.1
80°	512.9	489.0	471.3	508.3	434.2	566.1	934.8	864.6	708.1	643.3	618.6
82.5°	290.8	303.9	366.4	401.1	352.5	521.4	900.1	823.0	651.8	576.2	546.9
85°	148.9	178.2	255.3	287.7	259.2	443.5	829.2	720.4	522.9	441.2	443.5
87.5°	71.7	99.5	161.2	180.5	168.1	320.9	619.4	522.2	407.3	322.4	312.4
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)