

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: P319137

Luminaire Tested: **GAN-SA3D-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319137
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-SA3D-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23521 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

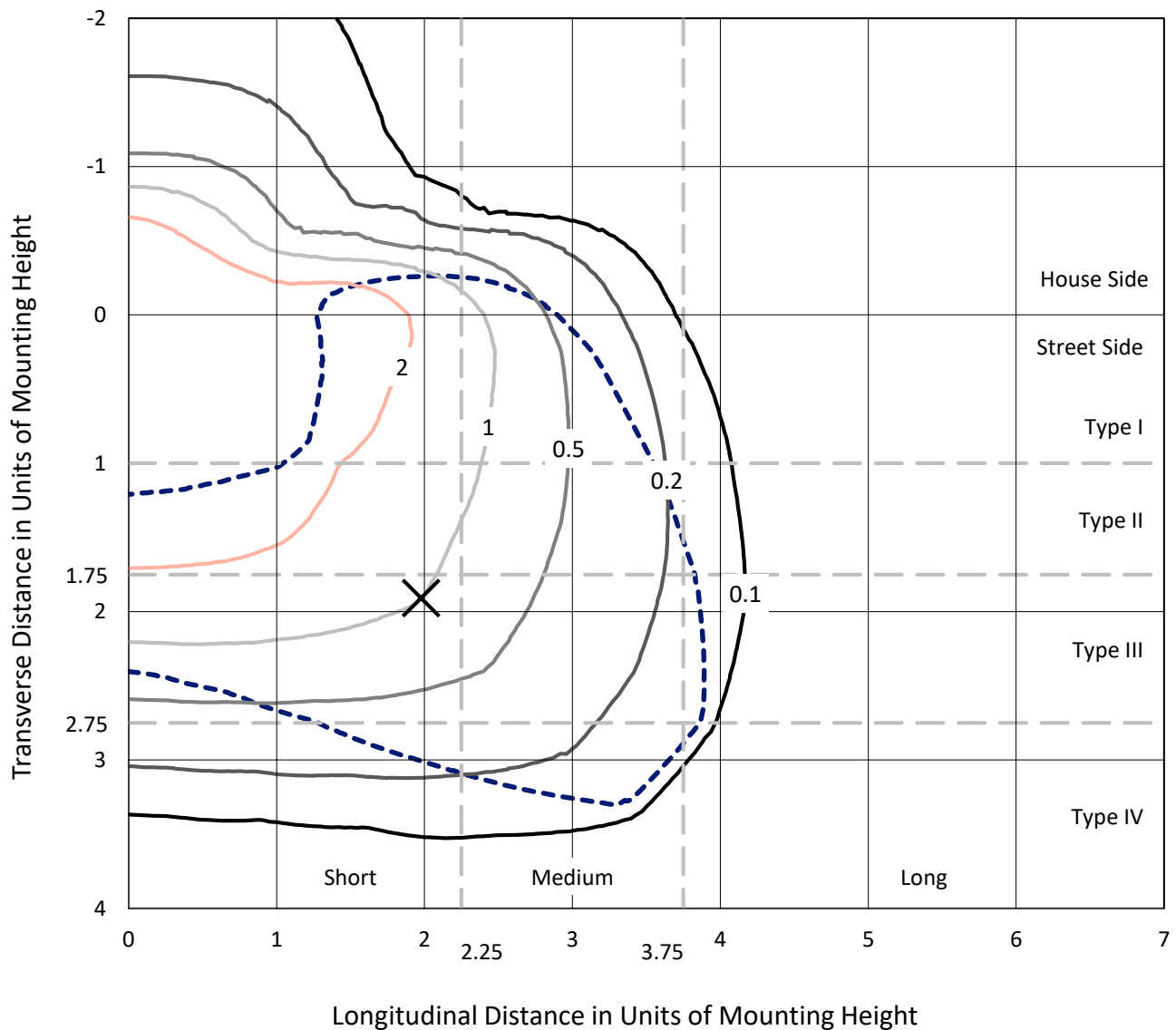
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

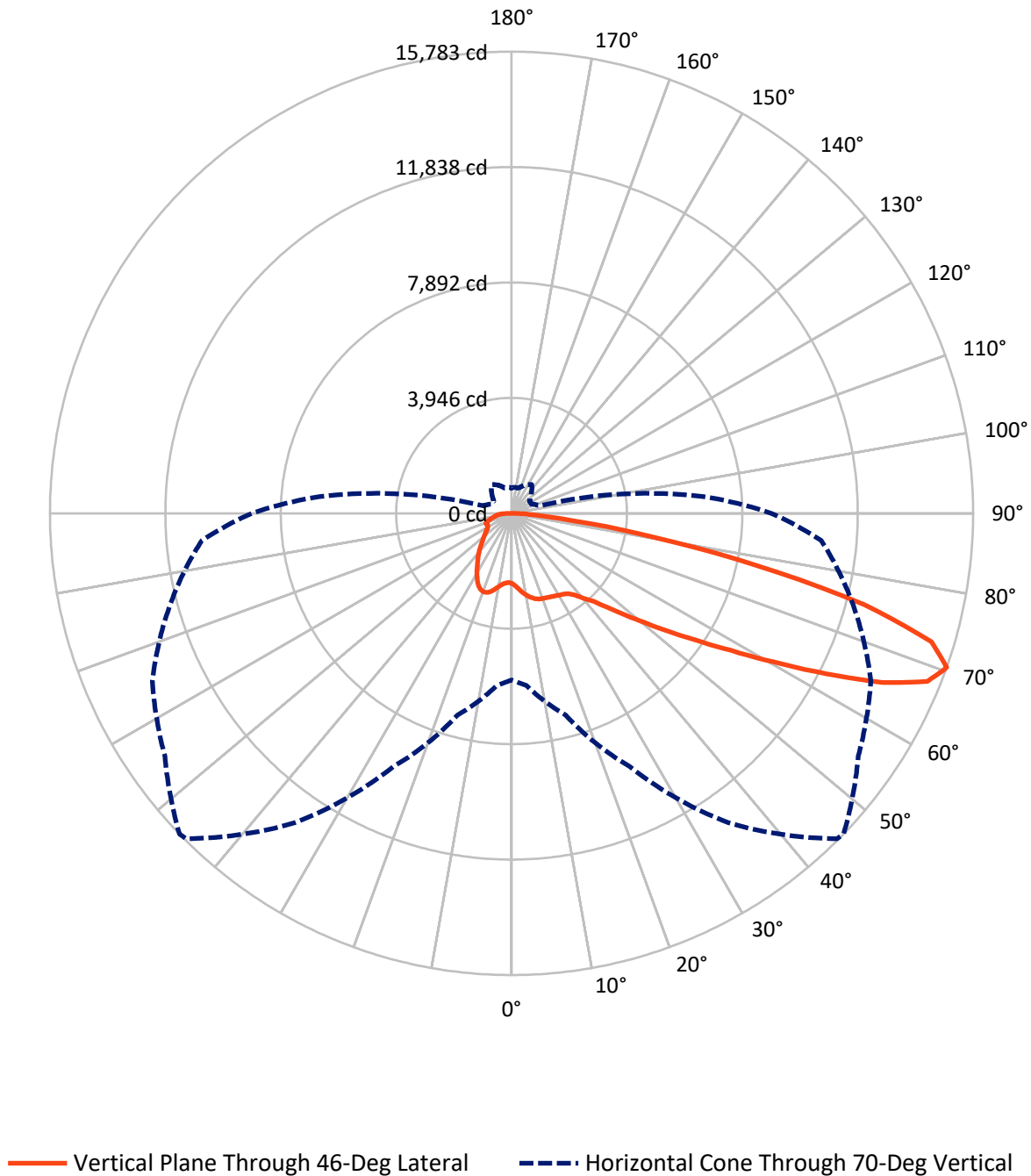
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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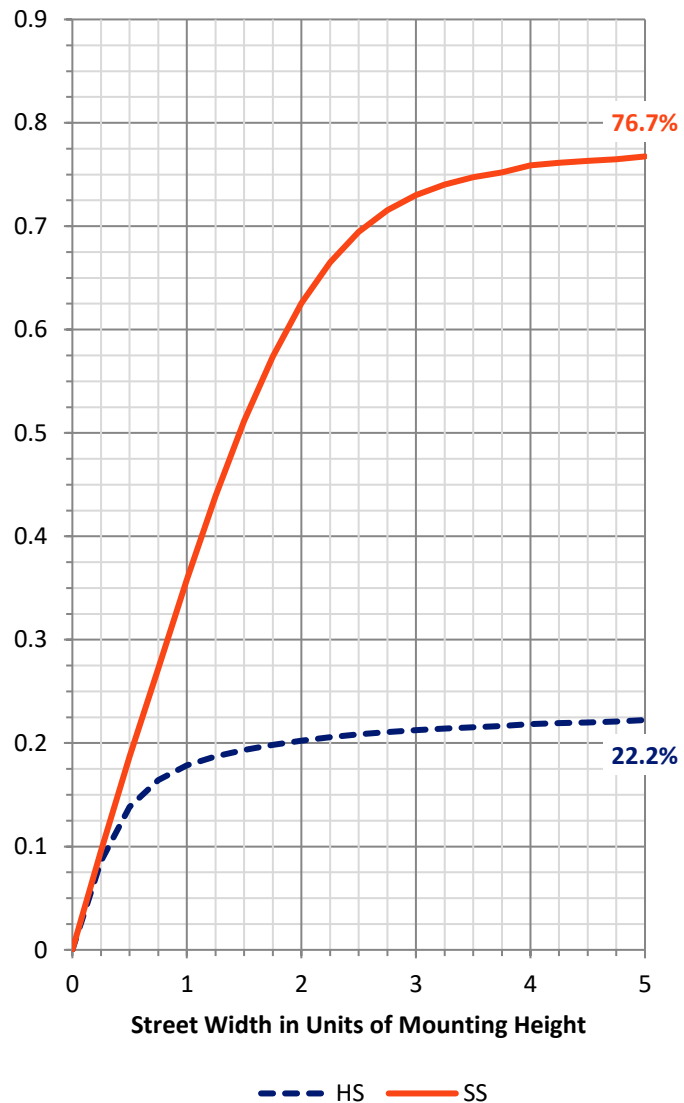
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5390.9	0.0	5390.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18130.1	0.0	18130.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	23521.0	0.0	23521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	1.0
10°-20°	813.9	3.5
20°-30°	1357.1	5.8
30°-40°	1925.8	8.2
40°-50°	2832.7	12.0
50°-60°	4797.2	20.4
60°-70°	6809.5	29.0
70°-80°	4136.8	17.6
80°-90°	603.7	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°	23521.0	100.0
0°-180°	23521.0	100.0

Coefficient of Utilization



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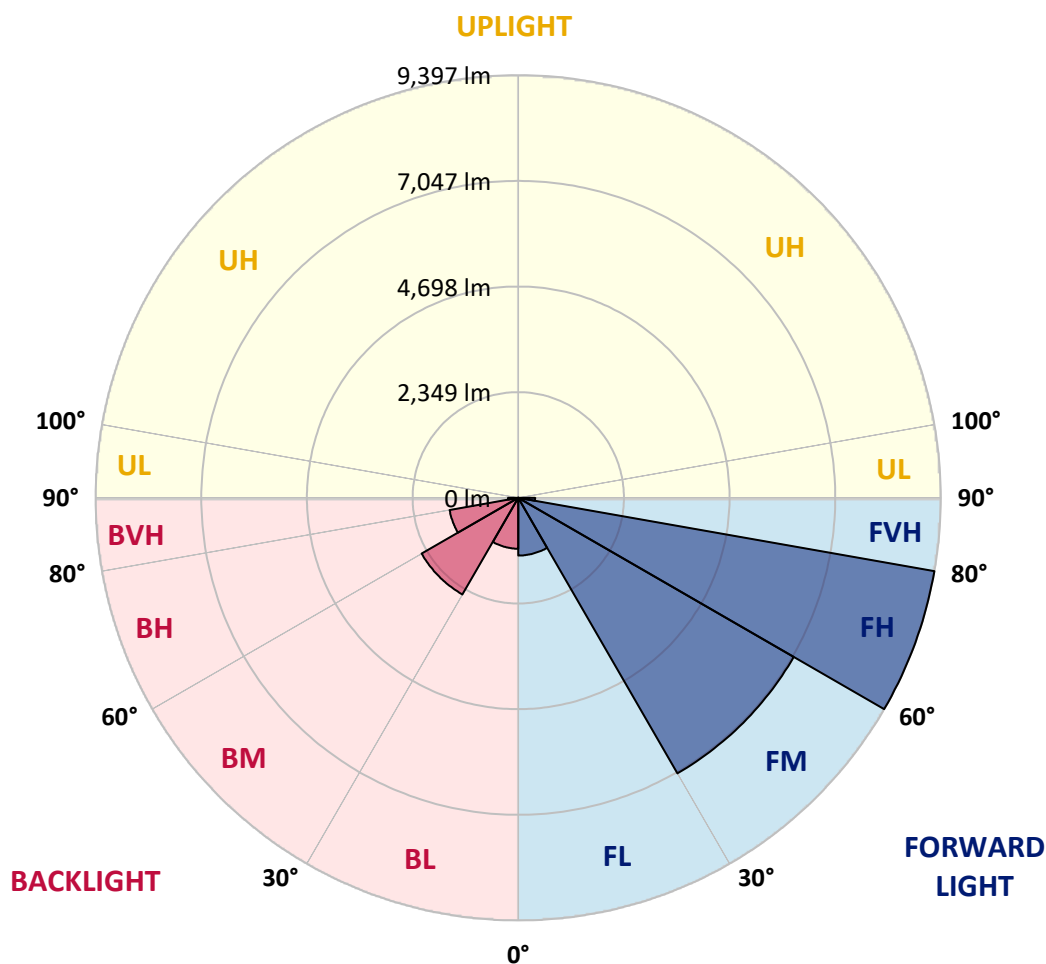
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1283.4	5.5			
FM	(30°-60°)	7074.1	30.1			
FH	(60°-80°)	9396.5	39.9			G4/12000
FVH	(80°-90°)	376.1	1.6			G3/500
BL	(0°-30°)	1131.8	4.8	B3/2500		
BM	(30°-60°)	2481.6	10.6	B2/2500		
BH	(60°-80°)	1549.8	6.6	B3/2500		G3/2500
BVH	(80°-90°)	227.7	1.0			G3/500
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°	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3
2.5°	2516.3	2517.9	2521.1	2513.0	2490.5	2484.1	2481.7	2458.3	2443.0	2420.5	2401.2
5°	2717.5	2719.1	2714.3	2691.7	2641.8	2604.8	2601.6	2548.5	2500.2	2448.7	2410.0
7.5°	2927.6	2930.0	2914.7	2872.1	2802.0	2737.6	2733.6	2661.2	2587.9	2509.8	2451.9
10°	3113.5	3103.9	3078.9	3019.4	2936.4	2857.6	2854.3	2778.7	2694.2	2600.0	2522.7
12.5°	3237.5	3229.5	3197.3	3124.8	3033.8	2961.4	2955.0	2884.9	2802.8	2699.8	2607.2
15°	3305.9	3311.6	3268.1	3186.0	3097.4	3036.3	3030.6	2980.7	2907.5	2803.6	2697.4
17.5°	3314.8	3319.6	3277.7	3196.4	3124.0	3082.1	3079.7	3046.7	2993.6	2893.8	2782.7
20°	3263.3	3266.5	3231.9	3165.1	3117.6	3104.7	3103.9	3089.4	3049.9	2961.4	2853.5
22.5°	3188.4	3190.8	3165.9	3117.6	3101.5	3121.6	3127.2	3121.6	3093.4	3010.5	2909.1
25°	3169.9	3168.3	3142.5	3093.4	3107.1	3149.8	3157.0	3159.4	3140.1	3067.7	2979.9
27.5°	3259.2	3253.6	3204.5	3125.6	3134.5	3186.0	3195.6	3219.0	3206.9	3143.3	3060.4
30°	3517.6	3508.0	3407.3	3248.0	3204.5	3231.1	3243.1	3280.2	3282.6	3229.5	3167.5
32.5°	3953.9	3941.8	3761.5	3476.6	3322.8	3276.9	3288.2	3343.8	3373.5	3332.5	3265.7
35°	4505.3	4491.6	4255.0	3865.4	3520.8	3364.7	3372.7	3417.0	3476.6	3418.6	3330.1
37.5°	5080.0	5047.0	4819.2	4322.6	3835.6	3552.2	3552.2	3557.9	3586.0	3465.3	3405.7
40°	5651.5	5618.5	5412.5	4860.3	4242.9	3847.7	3829.1	3704.4	3681.8	3578.0	3557.9
42.5°	6182.8	6173.1	6051.6	5468.0	4721.0	4138.2	4112.5	3900.8	3905.6	3841.2	3842.0
45°	6747.9	6747.9	6648.9	6081.4	5278.0	4605.1	4579.3	4267.8	4316.1	4286.3	4358.0
47.5°	7209.1	7223.6	7209.9	6720.5	5926.0	5198.4	5151.7	4776.6	4911.8	5014.0	5222.5
50°	7680.0	7702.5	7705.0	7421.6	6709.2	5903.5	5850.4	5451.9	5753.8	6046.8	6456.5
52.5°	8363.4	8414.1	8212.1	8121.1	7668.7	6740.6	6688.3	6320.4	6824.3	7235.7	7941.6
55°	8996.9	8952.6	8808.5	8864.9	8695.9	7693.7	7654.2	7331.5	8017.3	8551.8	9468.6
57.5°	9339.8	9336.6	9481.5	9723.0	9803.5	8868.9	8835.9	8522.0	9362.3	9764.0	10902.2
60°	9742.3	9747.9	10106.9	10655.1	10986.7	10332.3	10317.8	10079.6	10668.8	10895.8	12026.7
62.5°	9798.6	9900.1	10518.3	11461.7	12094.3	12042.0	12074.2	11482.6	11837.6	11798.9	12866.3
65°	9150.6	9284.3	10403.1	11705.6	13195.5	13911.9	13941.7	12893.7	12759.2	12570.9	13166.5
67.5°	7822.5	8020.5	9236.0	11175.1	13558.5	15294.0	15335.9	13987.6	13523.9	12832.5	12443.7
70°	5692.6	5912.3	7135.9	9544.3	12911.4	15735.9	15783.4	14471.4	13552.9	12087.9	10622.9
72.5°	3438.7	3611.0	4619.6	7026.4	10897.4	14931.0	15015.5	13858.0	12373.7	10238.9	7844.2
75°	1510.1	1622.8	2233.7	4048.9	7801.6	12353.5	12459.0	11861.7	10053.8	7440.9	4636.5
77.5°	643.2	675.4	916.0	1758.8	4410.3	8441.5	8586.4	8666.9	6821.1	4048.9	1959.2
80°	400.9	413.7	518.4	796.1	2063.9	4741.1	4897.3	5099.3	3387.2	1488.3	684.2
82.5°	243.9	258.4	344.5	481.4	1074.6	2149.2	2224.1	2366.5	1314.5	643.2	354.2
85°	146.5	157.0	210.9	304.3	611.8	845.2	844.4	933.7	619.0	413.7	186.7
87.5°	70.0	78.1	112.7	157.8	308.3	317.1	297.0	336.5	375.9	271.3	94.2
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°	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3
2.5°	2394.7	2391.5	2381.0	2373.0	2371.4	2366.5	2362.5	2364.9	2368.2	2369.0	2369.0
5°	2393.9	2385.1	2371.4	2365.7	2373.0	2382.6	2394.7	2410.8	2420.5	2427.7	2432.6
7.5°	2432.6	2415.6	2400.4	2397.1	2411.6	2437.4	2464.8	2498.6	2521.9	2538.0	2541.2
10°	2496.9	2476.0	2460.7	2463.9	2489.7	2526.7	2565.4	2608.8	2644.3	2666.0	2667.6
12.5°	2571.0	2550.9	2536.4	2550.1	2592.7	2637.8	2678.1	2715.9	2748.1	2769.8	2769.8
15°	2656.3	2641.8	2624.9	2656.3	2714.3	2754.5	2771.4	2789.9	2807.7	2823.8	2820.5
17.5°	2738.4	2724.7	2715.9	2752.9	2813.3	2831.8	2820.5	2806.9	2806.9	2815.7	2817.3
20°	2809.3	2797.2	2802.8	2839.1	2870.4	2851.1	2809.3	2765.8	2748.1	2752.9	2757.8
22.5°	2871.2	2865.6	2882.5	2899.4	2876.9	2809.3	2732.0	2673.2	2651.5	2649.9	2651.5
25°	2943.7	2942.9	2963.8	2933.2	2833.4	2708.6	2604.8	2547.7	2535.6	2545.2	2561.3
27.5°	3033.8	3042.7	3053.2	2941.3	2744.9	2556.5	2451.1	2411.6	2423.7	2447.0	2462.3
30°	3149.0	3173.1	3150.6	2921.2	2617.7	2382.6	2282.0	2270.8	2303.8	2336.8	2352.9
32.5°	3260.8	3298.7	3243.9	2868.8	2453.5	2198.3	2120.2	2117.0	2157.3	2189.5	2212.0
35°	3351.0	3425.9	3314.0	2765.0	2263.5	2028.5	1971.3	1949.6	1964.1	2001.9	2027.7
37.5°	3468.5	3593.3	3362.3	2606.4	2057.4	1888.4	1821.6	1771.7	1758.8	1774.1	1787.0
40°	3683.4	3848.5	3384.8	2385.1	1856.2	1748.3	1680.7	1607.5	1556.8	1519.7	1520.5
42.5°	4034.4	4180.9	3370.3	2116.2	1670.3	1611.5	1535.0	1450.5	1368.4	1284.7	1278.3
45°	4604.3	4675.1	3326.8	1831.3	1506.9	1468.2	1396.6	1312.1	1202.6	1107.6	1098.8
47.5°	5516.3	5359.3	3259.2	1582.5	1362.8	1346.7	1280.7	1183.3	1067.4	990.9	984.5
50°	6760.0	6347.0	3226.2	1384.5	1235.6	1240.4	1186.5	1083.5	974.0	917.6	911.2
52.5°	8247.5	7497.3	3289.8	1231.6	1133.4	1150.3	1110.0	1013.4	921.7	877.4	871.0
55°	9790.6	8688.6	3358.2	1120.5	1036.8	1069.8	1056.1	976.4	893.5	852.4	846.8
57.5°	11111.5	9578.1	3221.4	1030.3	950.6	1002.2	1014.2	953.1	879.0	842.0	835.5
60°	11943.0	9936.3	2862.4	945.8	882.2	948.2	990.1	946.6	884.6	881.4	876.6
62.5°	12337.4	9904.9	2323.9	879.0	839.6	924.9	1007.8	982.8	949.0	978.0	980.4
65°	12160.3	9431.6	1730.6	834.7	809.0	933.7	1060.9	1051.3	967.5	996.5	1000.6
67.5°	10994.8	8302.2	1281.5	796.1	775.2	958.7	1157.5	1073.8	931.3	952.3	939.4
70°	8886.6	6582.1	988.5	752.6	740.6	955.5	1201.0	1060.1	891.9	896.7	862.1
72.5°	6128.1	4488.4	804.1	712.4	690.6	871.0	1170.4	1026.3	858.9	821.9	776.0
75°	3332.5	2409.2	683.4	670.5	602.9	764.7	1114.0	1002.2	829.1	780.0	754.2
77.5°	1311.3	999.7	593.2	613.4	527.2	675.4	1051.3	956.3	788.0	723.6	710.8
80°	535.3	510.3	491.8	530.5	453.2	590.8	975.6	902.3	738.9	671.3	645.6
82.5°	303.5	317.1	382.4	418.6	367.9	544.1	939.4	858.9	680.2	601.3	570.7
85°	155.4	185.9	266.4	300.2	270.5	462.8	865.3	751.8	545.8	460.4	462.8
87.5°	74.9	103.8	168.2	188.4	175.5	334.9	646.4	544.9	425.0	336.5	326.0
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)