

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: P319110

Luminaire Tested: **GAN-SA6A-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319110
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-SA6A-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27677 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

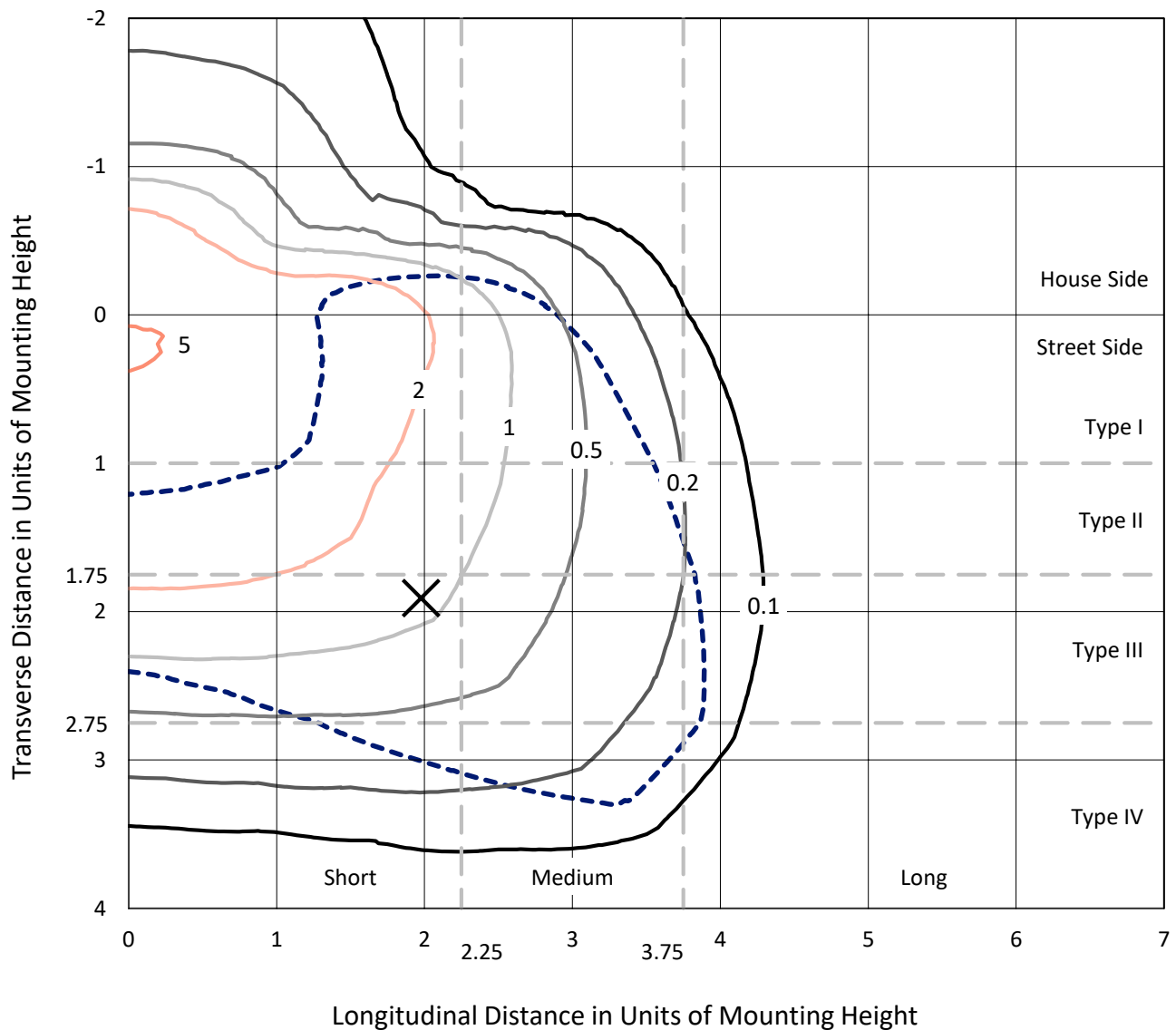
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

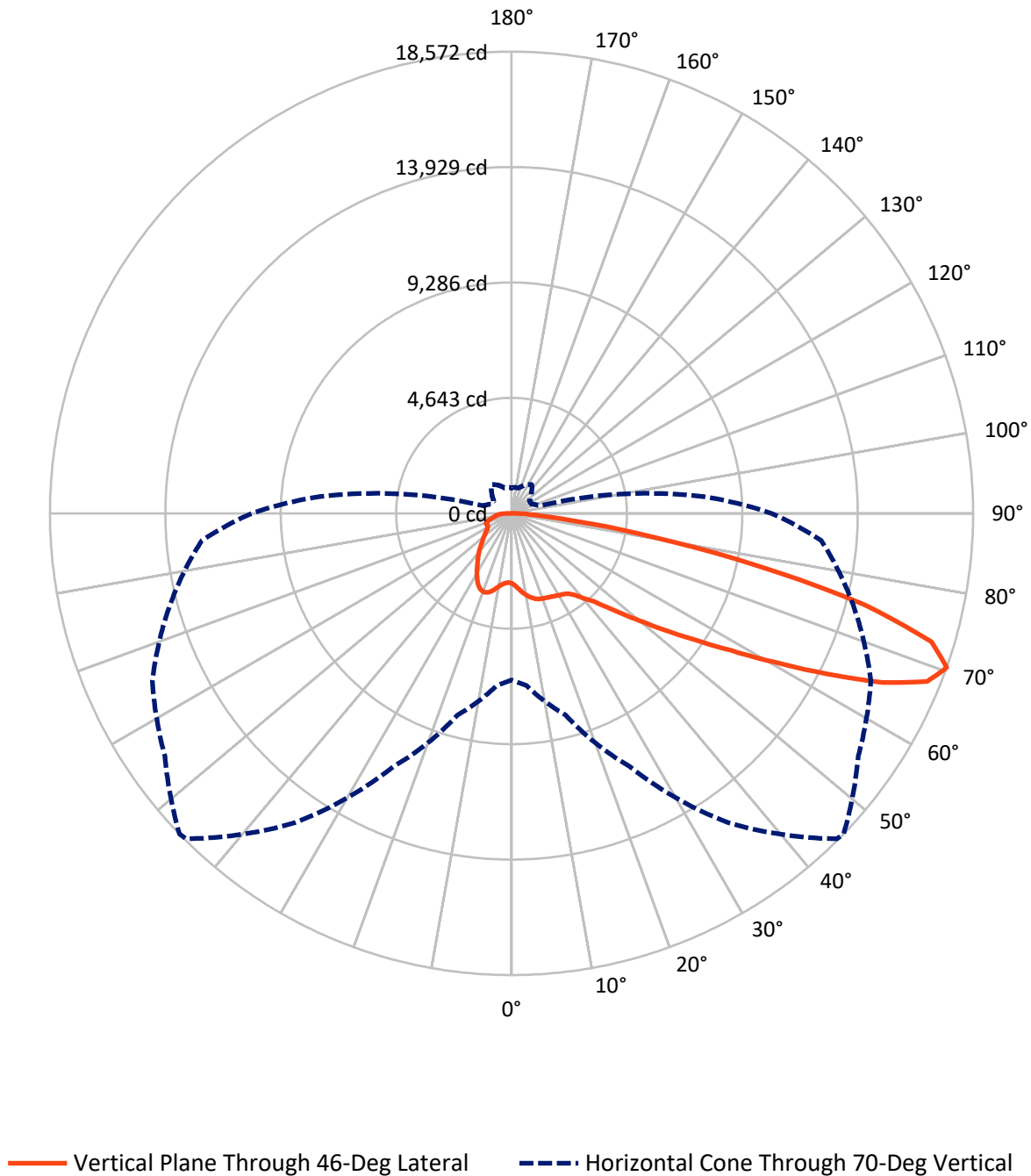
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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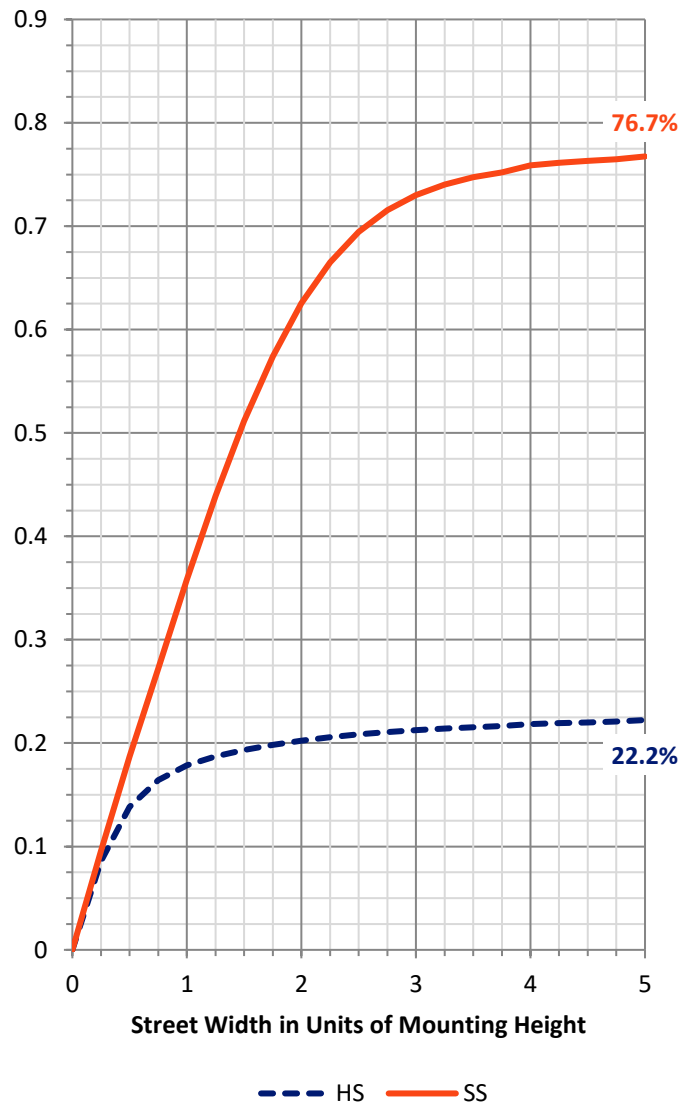
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6343.5	0.0	6343.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21333.5	0.0	21333.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	27677.0	0.0	27677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	1.0
10°-20°	957.7	3.5
20°-30°	1596.9	5.8
30°-40°	2266.0	8.2
40°-50°	3333.2	12.0
50°-60°	5644.8	20.4
60°-70°	8012.7	29.0
70°-80°	4867.8	17.6
80°-90°	710.4	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°	27677.0	100.0
0°-180°	27677.0	100.0

Coefficient of Utilization



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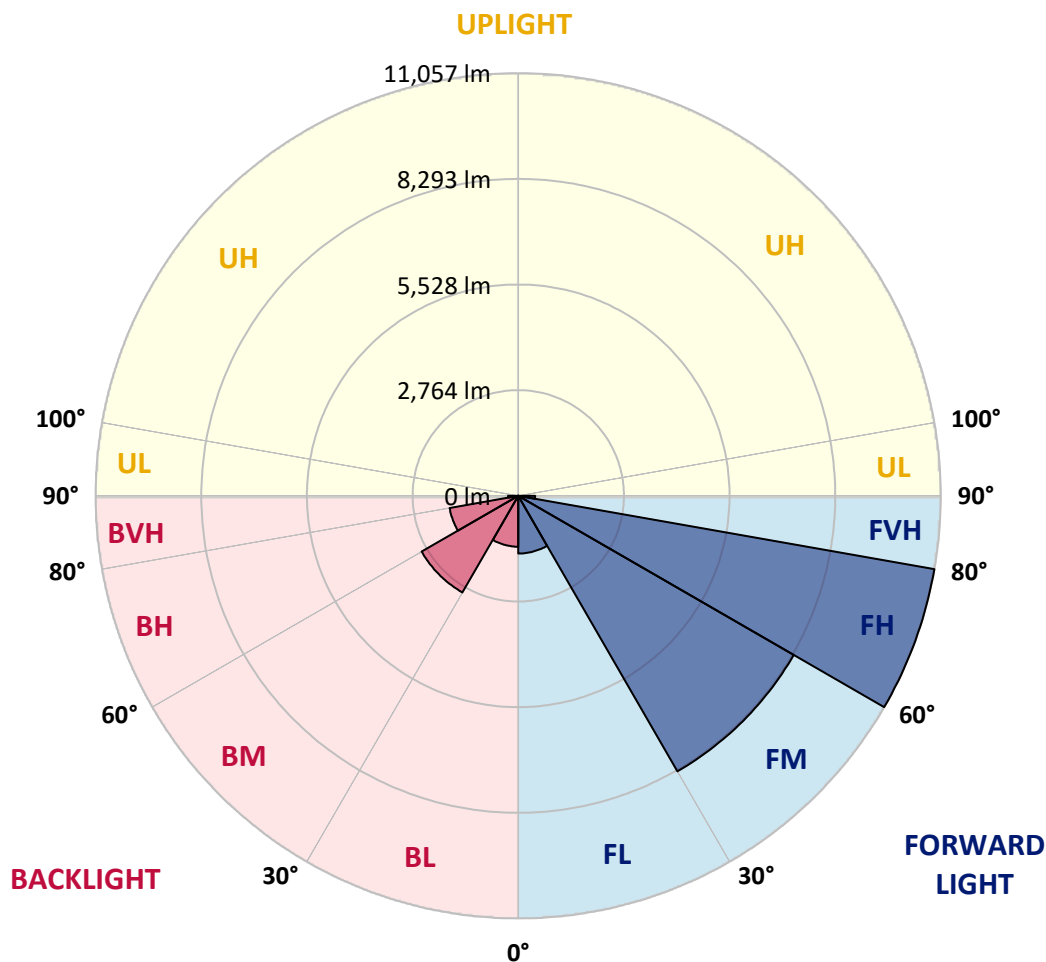
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1510.2	5.5			
FM	(30°-60°)	8324.0	30.1			
FH	(60°-80°)	11056.8	39.9			G4/12000
FVH	(80°-90°)	442.5	1.6			G3/500
BL	(0°-30°)	1331.8	4.8	B3/2500		
BM	(30°-60°)	2920.1	10.6	B3/5000		
BH	(60°-80°)	1823.7	6.6	B3/2500		G3/2500
BVH	(80°-90°)	267.9	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°	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7
2.5°	2960.9	2962.8	2966.6	2957.1	2930.6	2923.0	2920.1	2892.7	2874.7	2848.2	2825.4
5°	3197.7	3199.6	3193.9	3167.4	3108.6	3065.1	3061.3	2998.8	2941.9	2881.3	2835.8
7.5°	3444.9	3447.7	3429.7	3379.5	3297.1	3221.3	3216.6	3131.4	3045.2	2953.3	2885.1
10°	3663.7	3652.3	3623.0	3552.9	3455.3	3362.5	3358.7	3269.7	3170.2	3059.4	2968.5
12.5°	3809.5	3800.1	3762.2	3676.9	3569.9	3484.7	3477.1	3394.7	3298.1	3176.8	3067.9
15°	3890.1	3896.7	3845.5	3748.9	3644.7	3572.7	3566.1	3507.4	3421.2	3299.0	3174.0
17.5°	3900.5	3906.2	3856.9	3761.2	3676.0	3626.7	3623.9	3585.1	3522.5	3405.1	3274.4
20°	3839.9	3843.6	3802.9	3724.3	3668.4	3653.3	3652.3	3635.3	3588.9	3484.7	3357.7
22.5°	3751.8	3754.6	3725.2	3668.4	3649.5	3673.2	3679.8	3673.2	3640.0	3542.4	3423.1
25°	3730.0	3728.1	3697.8	3640.0	3656.1	3706.3	3714.8	3717.7	3694.9	3609.7	3506.4
27.5°	3835.1	3828.5	3770.7	3677.9	3688.3	3748.9	3760.3	3787.8	3773.6	3698.7	3601.2
30°	4139.2	4127.8	4009.4	3821.9	3770.7	3802.0	3816.2	3859.7	3862.6	3800.1	3727.1
32.5°	4652.5	4638.3	4426.2	4090.9	3909.9	3856.0	3869.2	3934.6	3969.6	3921.3	3842.7
35°	5301.3	5285.2	5006.8	4548.3	4143.0	3959.2	3968.7	4020.8	4090.9	4022.7	3918.5
37.5°	5977.6	5938.8	5670.7	5086.3	4513.3	4179.9	4179.9	4186.5	4219.7	4077.6	4007.5
40°	6650.1	6611.3	6368.8	5719.1	4992.6	4527.5	4505.7	4358.9	4332.4	4210.2	4186.5
42.5°	7275.3	7263.9	7120.9	6434.2	5555.2	4869.4	4839.1	4590.0	4595.7	4519.9	4520.9
45°	7940.2	7940.2	7823.7	7155.9	6210.6	5418.8	5388.5	5021.9	5078.8	5043.7	5128.0
47.5°	8482.9	8500.0	8483.9	7908.0	6973.1	6116.9	6061.9	5620.5	5779.7	5900.0	6145.3
50°	9037.0	9063.5	9066.4	8733.0	7894.7	6946.6	6884.1	6415.2	6770.4	7115.2	7597.3
52.5°	9841.2	9900.8	9663.1	9556.1	9023.8	7931.7	7870.1	7437.2	8030.2	8514.2	9344.8
55°	10586.6	10534.5	10365.0	10431.3	10232.3	9053.1	9006.7	8626.9	9433.9	10062.8	11141.6
57.5°	10990.1	10986.3	11156.8	11440.9	11535.7	10436.0	10397.2	10027.8	11016.6	11489.3	12828.6
60°	11463.7	11470.3	11892.7	12537.8	12928.0	12158.0	12140.9	11860.5	12553.9	12821.0	14151.8
62.5°	11530.0	11649.3	12376.8	13486.8	14231.3	14169.8	14207.6	13511.5	13929.2	13883.7	15139.7
65°	10767.5	10924.7	12241.3	13773.8	15527.1	16370.1	16405.1	15171.9	15013.7	14792.1	15493.0
67.5°	9204.7	9437.7	10867.9	13149.7	15954.2	17996.4	18045.6	16459.1	15913.5	15099.9	14642.4
70°	6698.4	6957.0	8396.7	11230.7	15192.7	18516.4	18572.2	17028.3	15947.6	14223.8	12499.9
72.5°	4046.3	4249.0	5435.8	8267.9	12822.9	17569.2	17668.6	16306.6	14560.0	12048.1	9230.2
75°	1776.9	1909.5	2628.4	4764.3	9180.0	14536.3	14660.4	13957.6	11830.2	8755.7	5455.7
77.5°	756.8	794.7	1077.9	2069.6	5189.6	9933.0	10103.5	10198.2	8026.4	4764.3	2305.4
80°	471.7	486.8	610.0	936.8	2428.6	5578.9	5762.6	6000.4	3985.7	1751.3	805.1
82.5°	287.0	304.0	405.4	566.4	1264.5	2529.0	2617.0	2784.7	1546.7	756.8	416.8
85°	172.4	184.7	248.2	358.0	719.9	994.5	993.6	1098.7	728.4	486.8	219.7
87.5°	82.4	91.9	132.6	185.6	362.8	373.2	349.5	395.9	442.3	319.2	110.8
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°	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7	2819.7
2.5°	2817.9	2814.1	2801.7	2792.3	2790.4	2784.7	2780.0	2782.8	2786.6	2787.5	2787.5
5°	2816.9	2806.5	2790.4	2783.8	2792.3	2803.6	2817.9	2836.8	2848.2	2856.7	2862.4
7.5°	2862.4	2842.5	2824.5	2820.7	2837.7	2868.1	2900.3	2940.0	2967.5	2986.4	2990.2
10°	2938.1	2913.5	2895.5	2899.3	2929.6	2973.2	3018.7	3069.8	3111.5	3137.0	3138.9
12.5°	3025.3	3001.6	2984.6	3000.7	3050.9	3103.9	3151.3	3195.8	3233.7	3259.2	3259.2
15°	3125.7	3108.6	3088.7	3125.7	3193.9	3241.2	3261.1	3282.9	3303.8	3322.7	3318.9
17.5°	3222.3	3206.2	3195.8	3239.3	3310.4	3332.2	3318.9	3302.8	3302.8	3313.2	3315.1
20°	3305.6	3291.4	3298.1	3340.7	3377.6	3354.9	3305.6	3254.5	3233.7	3239.3	3245.0
22.5°	3378.6	3371.9	3391.8	3411.7	3385.2	3305.6	3214.7	3145.6	3120.0	3118.1	3120.0
25°	3463.8	3462.9	3487.5	3451.5	3334.1	3187.2	3065.1	2997.8	2983.6	2995.0	3013.9
27.5°	3569.9	3580.3	3592.6	3461.0	3229.9	3008.2	2884.2	2837.7	2851.9	2879.4	2897.4
30°	3705.4	3733.8	3707.2	3437.3	3080.2	2803.6	2685.2	2672.0	2710.8	2749.7	2768.6
32.5°	3837.0	3881.5	3817.1	3375.7	2887.0	2586.7	2494.9	2491.1	2538.4	2576.3	2602.8
35°	3943.1	4031.2	3899.5	3253.6	2663.5	2386.9	2319.6	2294.1	2311.1	2355.6	2385.9
37.5°	4081.4	4228.2	3956.4	3067.0	2421.0	2222.1	2143.5	2084.7	2069.6	2087.6	2102.7
40°	4334.3	4528.5	3982.9	2806.5	2184.2	2057.3	1977.7	1891.5	1831.8	1788.3	1789.2
42.5°	4747.2	4919.6	3965.8	2490.1	1965.4	1896.2	1806.3	1706.8	1610.2	1511.7	1504.1
45°	5417.8	5501.2	3914.7	2154.8	1773.1	1727.7	1643.4	1543.9	1415.1	1303.3	1292.9
47.5°	6491.0	6306.3	3835.1	1862.1	1603.6	1584.6	1507.0	1392.3	1256.0	1166.0	1158.4
50°	7954.4	7468.5	3796.3	1629.1	1453.9	1459.6	1396.1	1274.9	1146.1	1079.8	1072.2
52.5°	9704.8	8822.0	3871.1	1449.2	1333.6	1353.5	1306.2	1192.5	1084.5	1032.4	1024.8
55°	11520.5	10223.8	3951.6	1318.5	1220.0	1258.8	1242.7	1148.9	1051.4	1003.1	996.4
57.5°	13074.8	11270.5	3790.6	1212.4	1118.6	1179.2	1193.4	1121.5	1034.3	990.7	983.2
60°	14053.3	11691.9	3368.2	1112.9	1038.1	1115.8	1165.0	1113.9	1040.9	1037.2	1031.5
62.5°	14517.4	11655.0	2734.5	1034.3	987.9	1088.3	1185.9	1156.5	1116.7	1150.8	1153.7
65°	14309.0	11098.1	2036.4	982.2	951.9	1098.7	1248.4	1237.0	1138.5	1172.6	1177.3
67.5°	12937.5	9769.2	1507.9	936.8	912.1	1128.1	1362.0	1263.5	1095.9	1120.5	1105.4
70°	10456.8	7745.1	1163.1	885.6	871.4	1124.3	1413.2	1247.4	1049.5	1055.2	1014.4
72.5°	7210.9	5281.5	946.2	838.3	812.7	1024.8	1377.2	1207.7	1010.6	967.1	913.1
75°	3921.3	2834.9	804.2	789.0	709.4	899.8	1310.9	1179.2	975.6	917.8	887.5
77.5°	1543.0	1176.4	698.1	721.7	620.4	794.7	1237.0	1125.2	927.3	851.5	836.4
80°	629.9	600.5	578.7	624.2	533.3	695.2	1148.0	1061.8	869.5	789.9	759.6
82.5°	357.1	373.2	449.9	492.5	432.9	640.3	1105.4	1010.6	800.4	707.5	671.5
85°	182.8	218.8	313.5	353.3	318.3	544.6	1018.2	884.7	642.2	541.8	544.6
87.5°	88.1	122.2	198.0	221.6	206.5	394.0	760.6	641.2	500.1	395.9	383.6
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)