

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: P317837

Luminaire Tested: **GAN-SA3B-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17837 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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

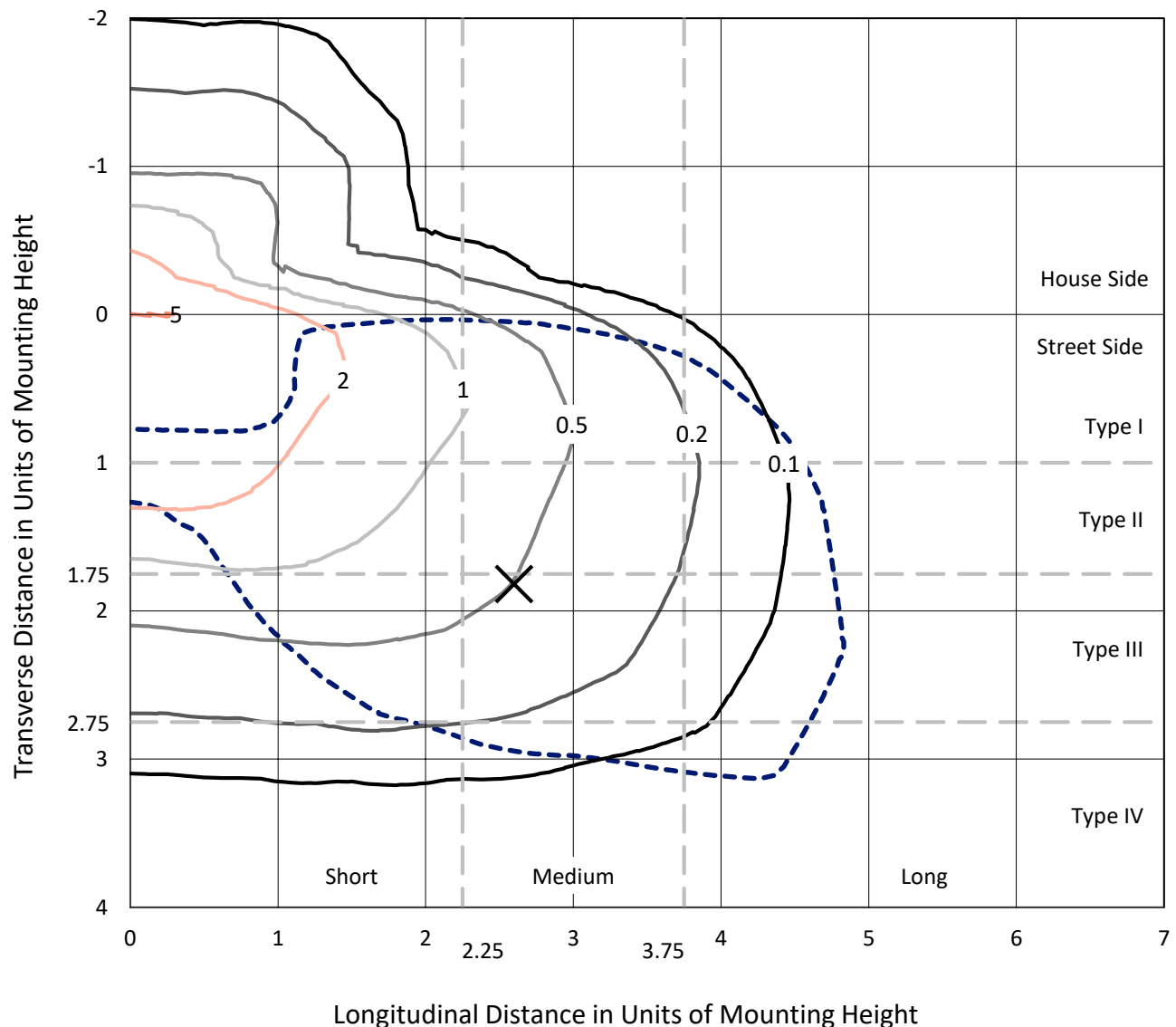


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Iso-Footcandle Lines of Horizontal Illumination

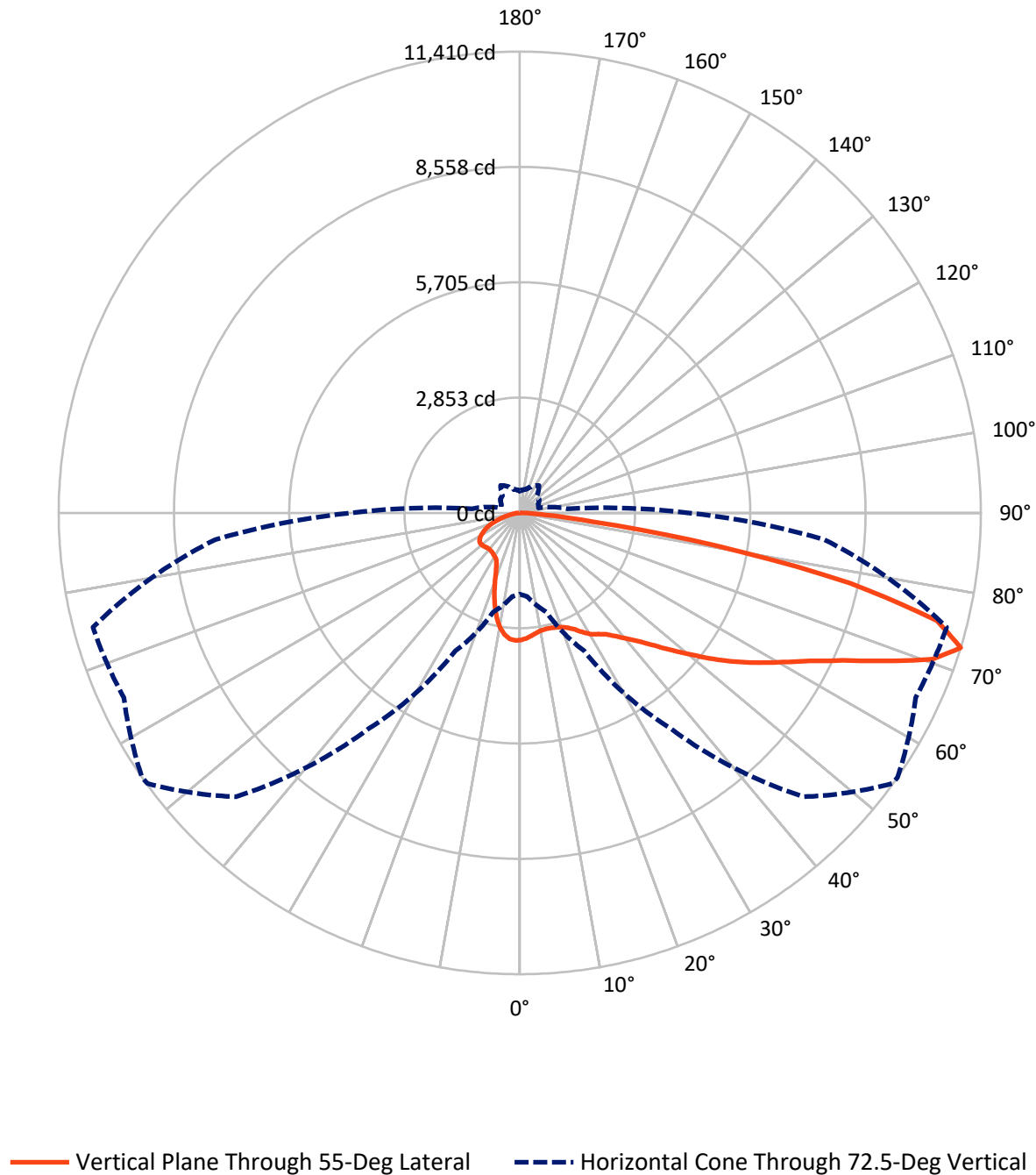
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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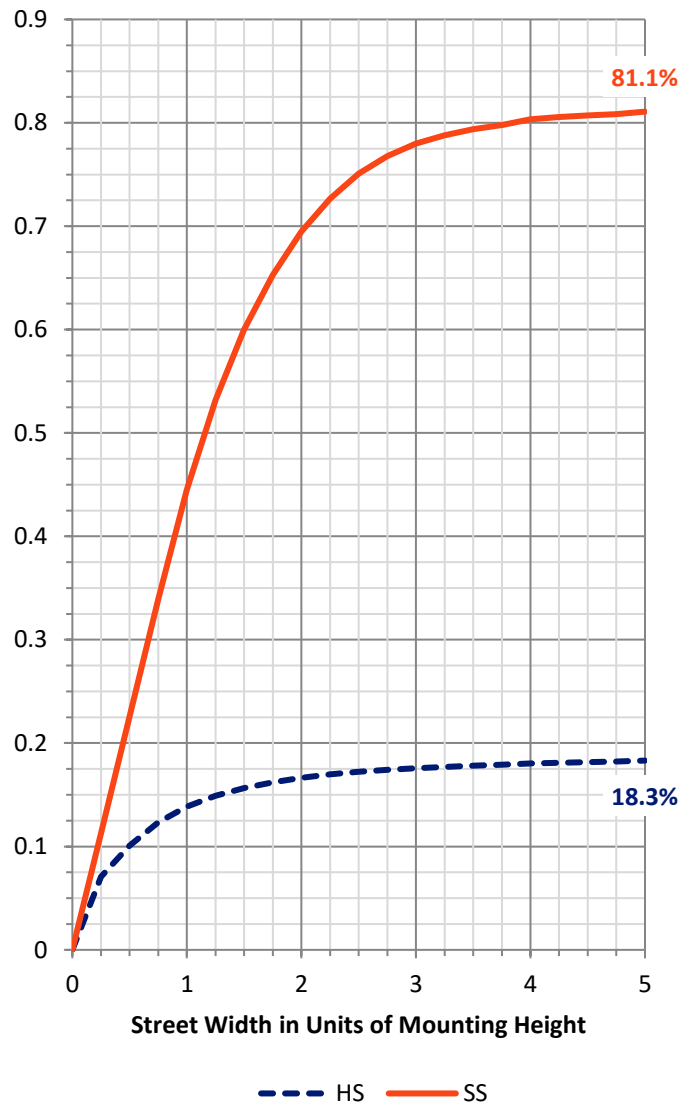
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3315.3	0.0	3315.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14521.7	0.0	14521.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	17837.0	0.0	17837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	1.6
10°-20°	757.9	4.2
20°-30°	1249.6	7.0
30°-40°	1848.5	10.4
40°-50°	2580.1	14.5
50°-60°	3359.4	18.8
60°-70°	4128.6	23.1
70°-80°	3236.4	18.1
80°-90°	391.7	2.2
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°	17837.0	100.0
0°-180°	17837.0	100.0

Coefficient of Utilization



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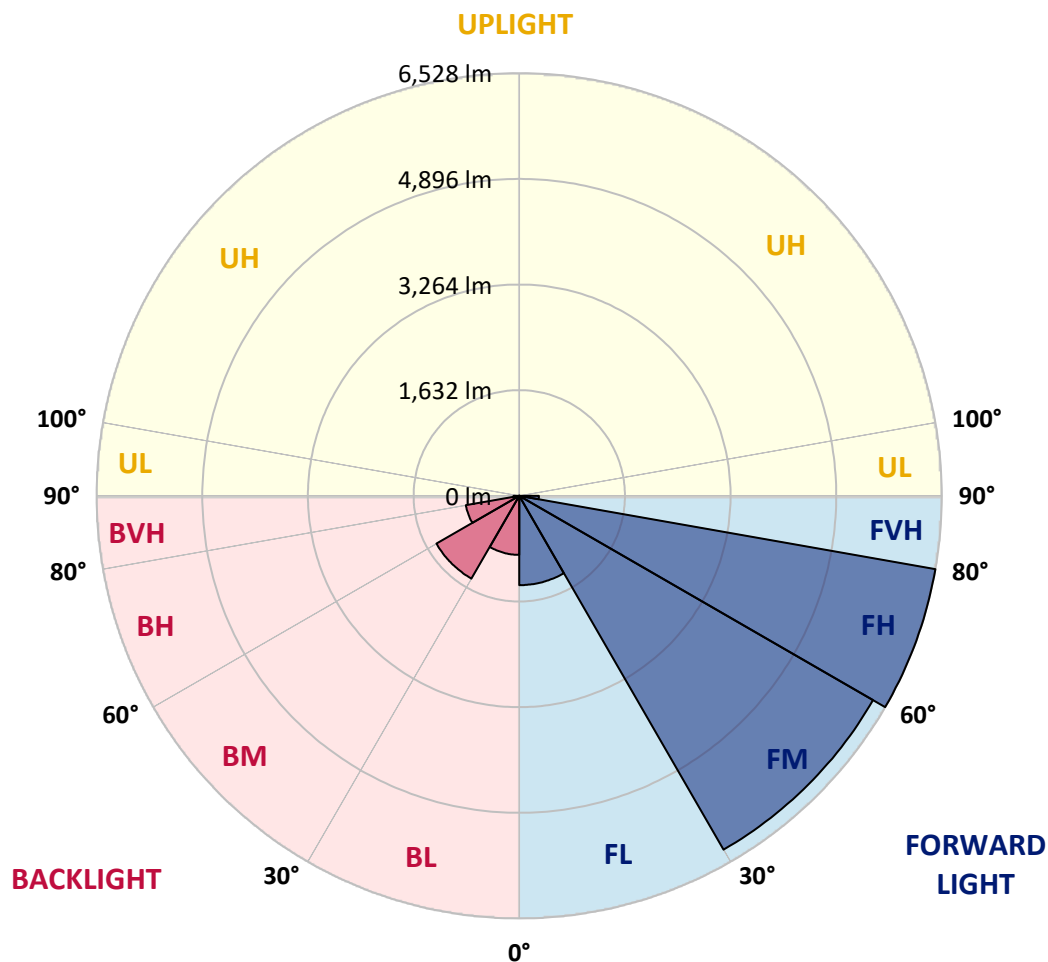
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1380.1	7.7			
FM	(30°-60°)	6311.1	35.4			
FH	(60°-80°)	6527.7	36.6			G3/7500
FVH	(80°-90°)	302.8	1.7			G3/500
BL	(0°-30°)	912.2	5.1	B2/1000		
BM	(30°-60°)	1477.0	8.3	B2/2500		
BH	(60°-80°)	837.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	88.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1
2.5°	3043.6	3036.4	3045.5	3058.1	3072.0	3090.6	3101.5	3106.3	3125.0	3132.2	3147.9
5°	2902.7	2899.1	2914.1	2935.8	2966.5	3009.9	3044.8	3051.5	3100.9	3135.8	3167.8
7.5°	2800.2	2800.2	2817.7	2843.6	2878.0	2936.4	2985.8	2994.8	3078.6	3153.9	3212.9
10°	2718.9	2721.9	2742.4	2773.1	2813.5	2875.6	2941.2	2951.5	3072.6	3196.1	3290.1
12.5°	2664.7	2671.9	2690.6	2718.3	2768.3	2843.6	2926.8	2940.6	3085.2	3256.3	3382.8
15°	2699.0	2711.1	2712.9	2724.3	2752.1	2834.0	2935.2	2949.7	3112.3	3317.8	3488.3
17.5°	2849.7	2853.9	2835.2	2811.1	2797.8	2850.3	2960.5	2975.6	3144.9	3378.6	3589.5
20°	3078.6	3076.2	3035.8	2970.7	2903.3	2911.7	3002.1	3017.7	3188.8	3432.2	3690.7
22.5°	3367.8	3359.3	3297.3	3177.4	3062.3	3014.1	3075.0	3088.2	3255.1	3508.7	3799.1
25°	3718.4	3699.7	3617.8	3456.9	3287.6	3163.5	3184.6	3197.3	3351.5	3594.3	3898.5
27.5°	4088.3	4069.6	3965.4	3770.8	3545.5	3352.1	3335.8	3346.7	3461.2	3657.6	3972.0
30°	4475.1	4455.2	4360.0	4141.9	3819.0	3547.3	3476.8	3481.0	3538.3	3691.9	4032.3
32.5°	4863.7	4845.0	4738.4	4485.3	4116.0	3757.0	3578.6	3573.2	3584.7	3727.4	4100.4
35°	5257.7	5264.9	5140.2	4860.1	4445.0	3990.1	3699.1	3687.7	3662.4	3800.3	4196.8
37.5°	5679.4	5674.6	5513.1	5220.3	4789.0	4243.1	3872.0	3870.2	3782.9	3938.3	4348.0
40°	5961.4	5964.4	5866.2	5589.1	5136.6	4523.3	4093.7	4089.5	3975.1	4144.9	4546.2
42.5°	6071.6	6091.5	6116.8	5940.9	5500.5	4848.0	4358.2	4352.2	4243.1	4441.4	4779.3
45°	6079.5	6119.2	6275.9	6253.6	5869.2	5219.7	4696.2	4679.3	4601.0	4835.4	5057.7
47.5°	6012.0	6052.9	6313.2	6439.7	6198.7	5611.9	5091.4	5078.2	5010.7	5328.2	5358.9
50°	5864.4	5903.5	6236.1	6530.7	6469.9	5989.1	5546.9	5511.9	5475.8	5897.5	5703.5
52.5°	5587.8	5663.2	6133.1	6552.4	6631.9	6324.1	6025.8	6002.9	6022.8	6498.2	6048.7
55°	4933.0	5017.3	5867.4	6534.3	6751.8	6605.4	6504.8	6503.6	6606.6	7128.3	6419.2
57.5°	4566.1	4625.7	5326.4	6503.6	6894.0	6884.9	6978.9	6990.4	7191.0	7814.6	6807.2
60°	4358.8	4421.5	5052.3	6389.7	7114.5	7246.4	7462.7	7485.6	7785.0	8574.3	7274.1
62.5°	4170.3	4238.9	4882.4	6157.8	7374.2	7763.3	8042.3	8062.8	8414.0	9355.0	7725.4
65°	3847.9	3925.7	4633.5	6005.4	7610.3	8437.5	8779.1	8793.0	9136.4	10173.2	8070.6
67.5°	3392.5	3463.6	4164.2	5668.6	7785.0	9256.2	9758.7	9766.5	9852.7	10751.0	8247.1
70°	2860.5	2887.6	3495.5	4973.3	7578.4	10022.0	10832.3	10834.1	10505.8	11120.9	8218.2
72.5°	2009.8	2073.7	2537.6	3764.8	6512.6	9928.6	11389.6	11410.1	10809.4	10934.1	7561.5
75°	1232.6	1300.1	1591.7	2281.5	4131.7	7808.5	10523.2	10665.4	10240.1	9749.1	6177.1
77.5°	824.2	849.5	1038.6	1330.2	1871.9	4492.6	8090.5	8358.0	8506.8	7109.7	3950.4
80°	459.7	507.9	688.6	826.6	832.6	1785.1	4851.0	4913.7	4733.0	2831.0	1218.8
82.5°	243.4	269.9	459.7	485.6	454.3	597.6	1808.0	1809.8	1512.2	759.1	362.1
85°	188.6	210.9	315.1	296.4	231.9	265.1	596.4	629.0	514.5	310.9	118.1
87.5°	94.0	116.9	213.9	188.0	91.0	75.9	213.3	227.7	203.0	121.7	42.8
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°	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1
2.5°	3153.9	3159.3	3165.9	3158.7	3156.3	3146.7	3130.4	3126.8	3118.3	3119.0	3123.8
5°	3181.6	3190.6	3187.0	3159.3	3126.2	3079.8	3031.6	2990.6	2963.5	2961.7	2959.9
7.5°	3234.6	3240.6	3212.3	3133.4	3040.6	2933.4	2832.2	2743.6	2690.0	2676.7	2673.7
10°	3317.8	3316.6	3238.8	3079.8	2894.8	2703.3	2540.6	2417.7	2346.0	2324.9	2319.5
12.5°	3410.5	3396.7	3247.9	2982.2	2688.8	2423.1	2217.1	2080.3	2005.6	1981.5	1975.5
15°	3506.3	3472.0	3225.6	2836.4	2435.8	2121.3	1905.0	1778.5	1738.1	1724.9	1722.4
17.5°	3595.5	3529.2	3161.7	2638.8	2147.2	1820.6	1652.0	1601.3	1611.0	1628.5	1629.1
20°	3682.9	3567.8	3059.3	2389.4	1842.9	1573.0	1515.8	1553.2	1598.9	1634.5	1639.3
22.5°	3769.0	3594.9	2927.4	2101.4	1570.6	1433.9	1474.2	1542.3	1594.7	1633.3	1639.9
25°	3841.3	3601.5	2745.4	1794.1	1381.4	1381.4	1454.3	1518.8	1570.6	1608.6	1615.2
27.5°	3867.8	3556.9	2488.8	1509.8	1286.3	1357.3	1426.6	1480.3	1524.2	1564.6	1571.8
30°	3878.1	3474.4	2192.4	1281.4	1247.1	1331.4	1389.3	1435.1	1476.6	1514.6	1521.2
32.5°	3879.9	3375.0	1877.9	1151.9	1220.0	1304.3	1342.9	1383.3	1427.8	1442.9	1445.3
35°	3891.3	3257.5	1546.5	1085.6	1194.7	1279.0	1309.8	1338.7	1266.4	1271.8	1276.6
37.5°	3924.4	3141.2	1269.4	1048.3	1178.4	1265.8	1302.5	1197.7	1141.1	1127.8	1126.0
40°	3986.5	3017.1	1064.0	1018.2	1172.4	1272.4	1256.1	1118.2	1020.6	947.7	936.8
42.5°	4072.7	2883.4	932.6	998.3	1176.6	1304.3	1191.7	1041.7	879.6	832.6	826.6
45°	4169.6	2743.0	861.5	984.4	1191.1	1329.0	1178.4	939.8	813.9	778.4	775.4
47.5°	4263.6	2571.3	824.8	978.4	1211.0	1309.2	1122.4	908.5	782.6	763.9	765.7
50°	4371.5	2416.5	802.5	971.8	1228.4	1296.5	1059.1	892.2	770.6	793.4	817.5
52.5°	4462.4	2256.2	782.6	958.5	1235.0	1274.2	1042.9	895.3	770.6	814.5	837.4
55°	4570.3	2135.1	759.7	930.8	1222.4	1211.0	1031.4	913.3	779.6	751.9	754.3
57.5°	4709.5	2095.4	734.4	887.4	1180.2	1118.8	1026.0	930.8	774.2	756.7	762.7
60°	4902.2	2137.5	724.2	830.8	1114.6	1046.5	1026.6	921.8	736.2	706.1	706.7
62.5°	5086.0	2184.5	723.6	795.3	1033.8	982.0	1012.7	892.2	716.9	699.5	706.1
65°	5146.2	2136.9	694.6	755.5	942.9	904.9	987.4	860.9	702.5	676.0	674.8
67.5°	5065.5	1989.3	636.2	691.0	838.6	815.1	954.3	823.6	679.6	657.9	654.3
70°	4825.7	1659.8	563.9	606.1	719.9	713.9	901.9	780.2	648.9	630.2	614.5
72.5°	4180.5	1182.6	475.3	504.3	586.2	605.5	829.6	723.6	605.5	565.1	541.0
75°	3433.4	875.4	390.4	396.4	445.2	497.6	730.2	657.3	554.3	485.6	466.9
77.5°	2102.6	535.6	310.9	313.3	319.3	397.0	601.3	583.2	489.2	404.9	391.6
80°	680.8	292.2	224.7	236.2	218.1	291.0	465.1	496.4	419.9	338.6	324.1
82.5°	259.1	170.5	151.8	159.7	151.2	195.2	339.2	397.6	344.0	278.3	226.5
85°	125.3	96.4	89.8	100.6	93.4	100.0	216.9	292.8	260.9	181.3	168.7
87.5°	44.6	42.8	34.3	46.4	39.8	35.5	66.3	147.6	172.3	124.7	111.5
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)