

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: McGRAW-EDISON

Report Number: P531158

Luminaire Tested: **GALN-SA6B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23407 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

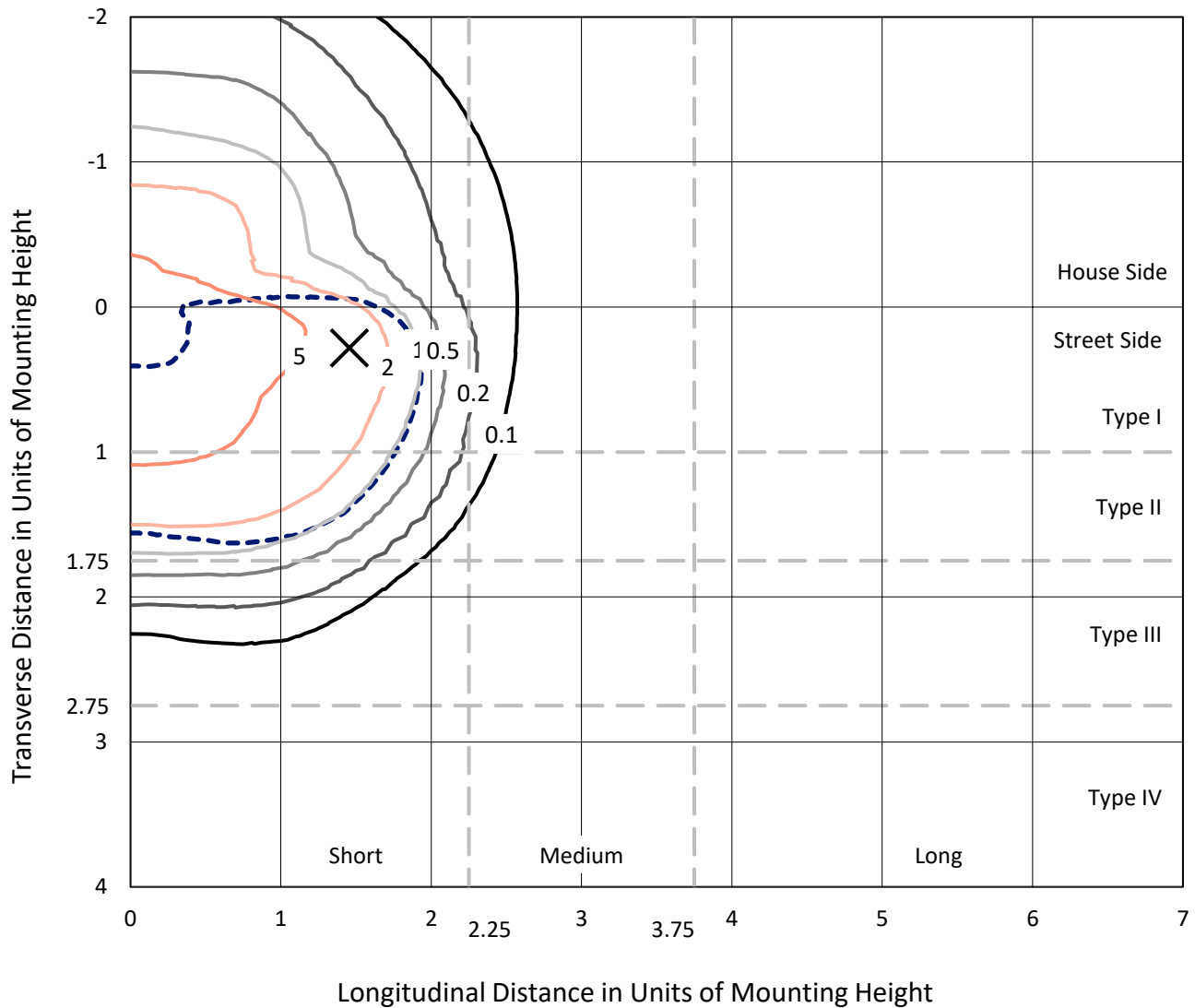
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

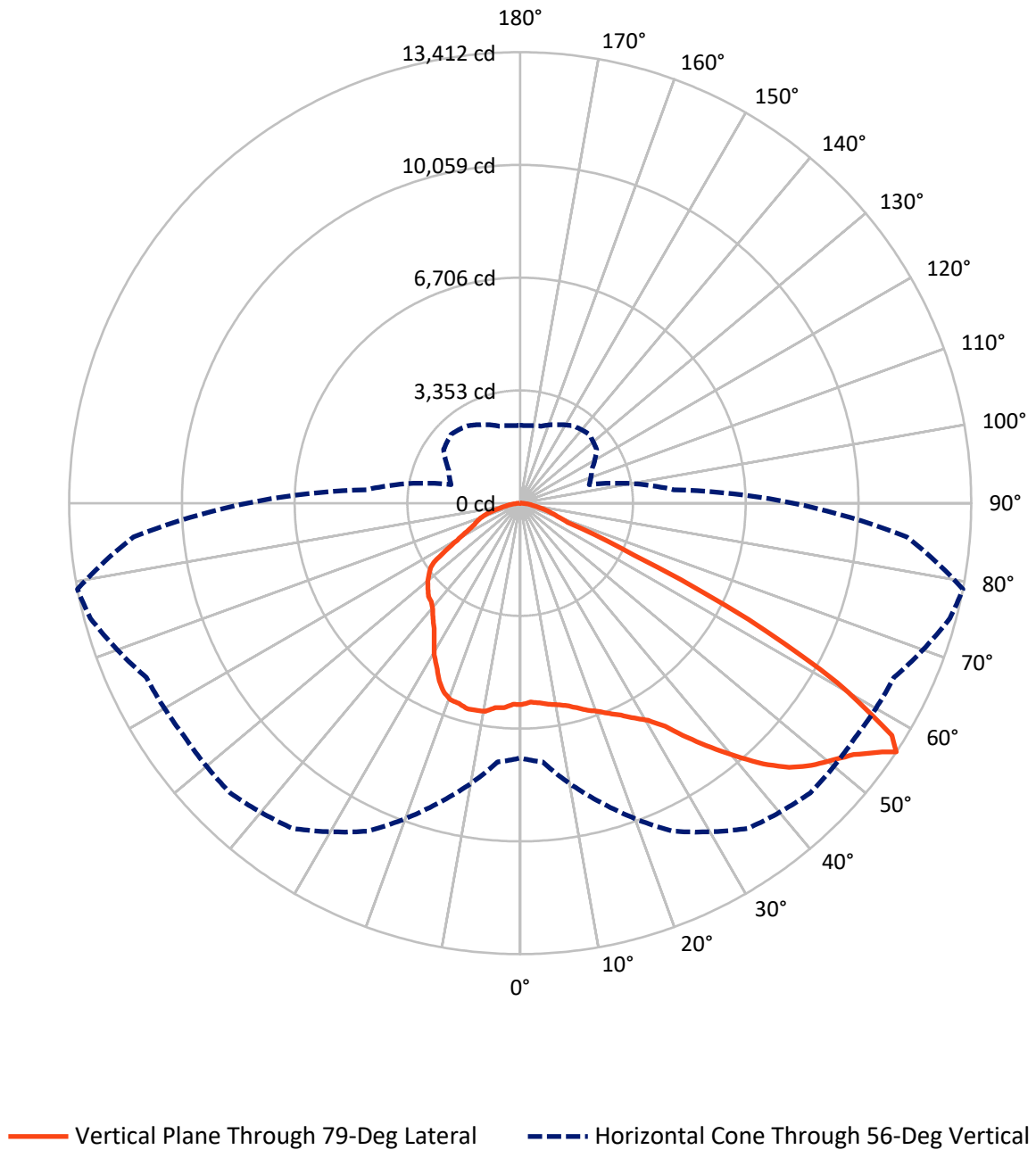
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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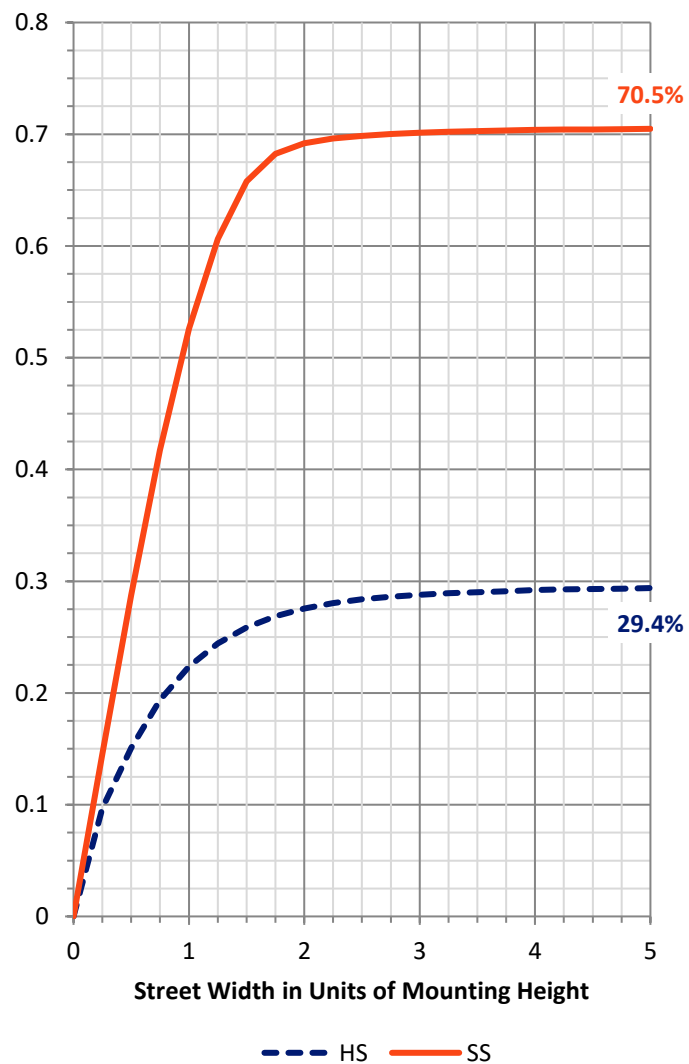
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6912.6	0.0	6912.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	16494.4	0.0	16494.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	23407.0	0.0	23407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.5	2.3
10°-20°	1490.2	6.4
20°-30°	2549.4	10.9
30°-40°	3907.3	16.7
40°-50°	5280.6	22.6
50°-60°	6065.0	25.9
60°-70°	2764.6	11.8
70°-80°	681.6	2.9
80°-90°	123.9	0.5
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°	23407.0	100.0
0°-180°	23407.0	100.0

Coefficient of Utilization



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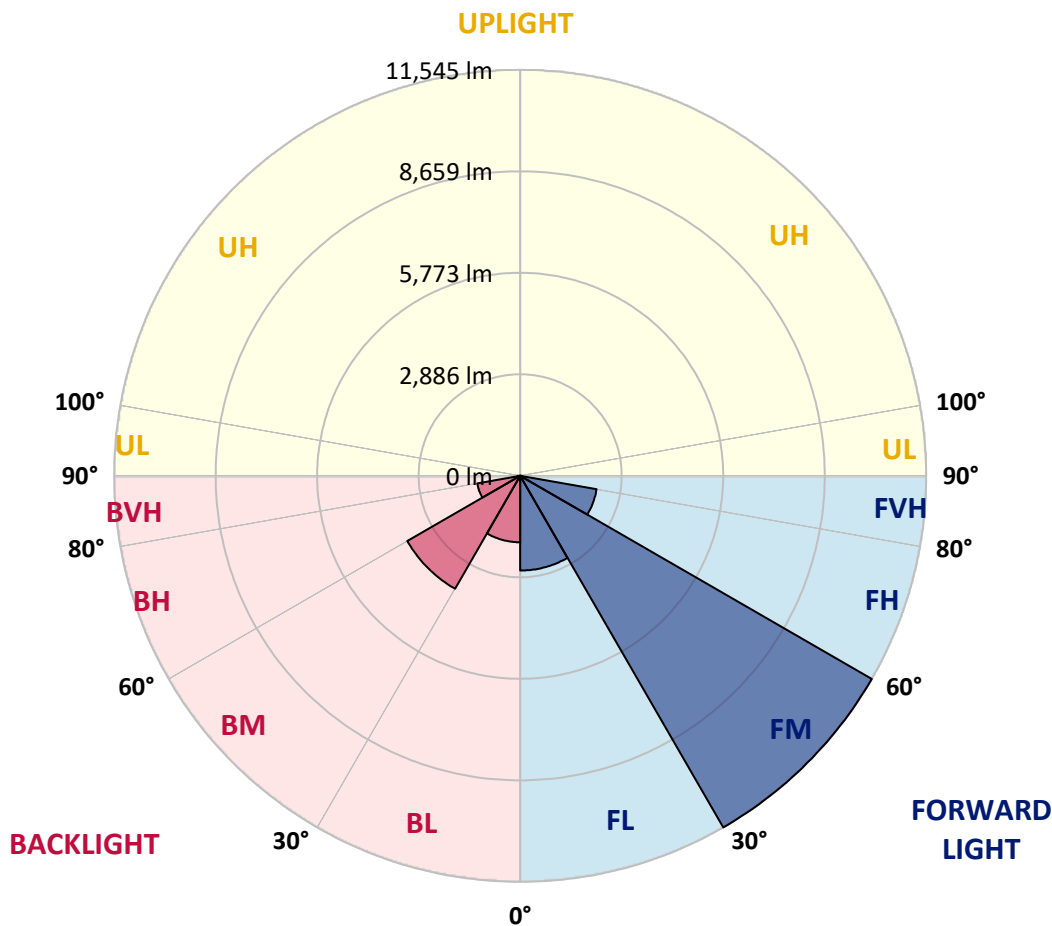
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2693.2	11.5			
FM	(30°-60°)	11545.0	49.3			
FH	(60°-80°)	2206.7	9.4			G2/5000
FVH	(80°-90°)	49.5	0.2			G1/100
BL	(0°-30°)	1890.9	8.1	B3/2500		
BM	(30°-60°)	3707.8	15.8	B3/5000		
BH	(60°-80°)	1239.5	5.3	B3/2500		G3/2500
BVH	(80°-90°)	74.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9
2.5°	5697.4	5682.8	5717.8	5744.0	5776.1	5816.9	5837.3	5849.0	5951.0	5924.8	6003.5
5°	5574.9	5537.0	5563.2	5583.6	5639.0	5688.6	5744.0	5831.5	5924.8	5965.6	6061.8
7.5°	5467.0	5446.6	5440.8	5455.3	5531.2	5595.3	5691.5	5819.8	5971.4	6038.5	6093.9
10°	5289.1	5260.0	5303.7	5399.9	5420.4	5554.5	5665.3	5849.0	5980.2	6096.8	6260.1
12.5°	5210.4	5181.3	5190.0	5245.4	5388.3	5516.6	5647.8	5854.8	6131.8	6178.4	6397.1
15°	5335.8	5306.6	5315.4	5300.8	5437.9	5504.9	5711.9	5971.4	6236.8	6315.5	6548.7
17.5°	5621.5	5624.5	5586.6	5554.5	5522.4	5665.3	5808.1	6041.4	6277.6	6475.9	6650.8
20°	6166.8	6070.6	5994.8	5814.0	5764.4	5825.6	6006.4	6230.9	6443.8	6607.1	6805.3
22.5°	6586.7	6595.4	6487.5	6190.1	6082.2	6108.5	6263.0	6446.7	6680.0	6796.6	7024.0
25°	7196.0	7134.8	7018.2	6782.0	6540.0	6560.4	6674.1	6840.3	6904.5	6986.1	7233.9
27.5°	7752.9	7770.4	7540.1	7318.5	7018.2	6959.9	7164.0	7193.1	7085.2	7239.8	7324.3
30°	8318.6	8304.0	8152.4	7892.9	7598.4	7610.1	7700.5	7557.6	7408.9	7493.4	7551.8
32.5°	8904.7	8738.5	8732.6	8499.4	8274.9	8167.0	8056.2	8126.2	7895.8	7913.3	7857.9
35°	9374.1	9397.4	9263.3	9097.1	8986.3	8796.8	8493.5	8618.9	8575.2	8554.8	8315.7
37.5°	9715.2	9624.8	9691.9	9636.5	9531.5	9295.4	8980.5	9100.0	9120.4	9219.6	8942.6
40°	9995.1	9957.2	10135.1	10164.3	10091.4	9581.1	9015.5	9371.2	9677.3	9893.1	9563.6
42.5°	10129.3	10210.9	10397.5	10622.0	10458.7	9913.5	9196.2	9578.2	10260.5	10601.6	10152.6
45°	10310.0	10205.1	10482.1	10893.2	10896.1	10193.4	9371.2	9858.1	10715.3	11211.0	10555.0
47.5°	10126.4	10178.8	10464.6	10986.5	11120.6	10487.9	9843.5	10254.6	11216.8	11657.1	10928.2
50°	9715.2	9820.2	10342.1	10884.4	11289.7	10799.9	10385.9	10683.3	11680.4	12015.8	10989.4
52.5°	9286.6	9344.9	10161.3	10963.2	11365.5	11202.3	11111.9	11275.2	12246.1	12421.0	11065.2
55°	8120.3	8397.3	9563.6	10928.2	11735.8	11928.3	11858.3	12097.4	12887.6	13062.5	11479.3
56°	7580.9	7726.7	9205.0	10764.9	11808.7	12193.6	12158.6	12266.5	13228.7	13412.4	11543.4
57.5°	6583.7	6595.4	7849.2	10041.8	11534.7	12272.3	12237.3	12321.9	13161.6	13036.3	10980.7
60°	4119.9	4300.7	5341.6	7723.8	9808.5	11386.0	11584.2	10904.9	11097.3	10832.0	8543.1
62.5°	2134.3	2108.1	2799.1	4516.5	6510.8	8152.4	8336.1	8304.0	8006.6	7618.8	5580.7
65°	1064.2	1070.1	1463.7	2236.4	3335.6	4268.6	4781.8	4837.2	4047.0	3723.4	2647.5
67.5°	772.7	801.8	1052.6	1367.5	1571.6	1758.2	2154.7	2113.9	1600.7	1522.0	1411.2
70°	600.6	626.9	854.3	1043.8	947.6	947.6	1032.2	1067.2	1140.1	1172.1	1210.0
72.5°	437.4	457.8	653.1	720.2	621.1	667.7	772.7	854.3	930.1	941.8	985.5
75°	300.3	317.8	428.6	396.5	373.2	460.7	565.7	641.5	696.9	726.0	752.3
77.5°	195.4	201.2	244.9	207.0	239.1	297.4	367.4	431.5	486.9	510.3	516.1
80°	87.5	96.2	105.0	131.2	166.2	212.8	262.4	314.9	349.9	358.6	376.1
82.5°	49.6	49.6	64.1	93.3	122.5	154.5	189.5	227.4	268.2	277.0	274.1
85°	26.2	26.2	37.9	55.4	75.8	90.4	87.5	90.4	96.2	110.8	107.9
87.5°	8.7	8.7	11.7	11.7	14.6	17.5	14.6	20.4	26.2	26.2	26.2
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°	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9	5988.9
2.5°	5980.2	6006.4	5971.4	6047.2	6047.2	6032.7	5959.8	5983.1	6000.6	6000.6	6015.2
5°	6093.9	6085.1	6108.5	6018.1	5962.7	5942.3	5822.7	5764.4	5714.8	5711.9	5668.2
7.5°	6158.0	6134.7	6126.0	6058.9	5814.0	5665.3	5408.7	5260.0	5227.9	5114.2	5157.9
10°	6260.1	6303.8	6260.1	5895.6	5554.5	5213.3	4962.6	4732.2	4641.9	4569.0	4525.2
12.5°	6470.0	6449.6	6195.9	5703.2	5225.0	4819.7	4446.5	4204.5	4114.1	4050.0	4044.1
15°	6647.9	6545.8	6158.0	5399.9	4711.8	4280.3	3974.1	3802.1	3761.3	3767.1	3793.4
17.5°	6709.1	6639.1	5959.8	5085.0	4329.9	3822.5	3679.7	3653.4	3691.3	3735.1	3746.7
20°	6805.3	6694.5	5878.1	4656.4	3857.5	3536.8	3528.0	3621.3	3691.3	3755.5	3764.2
22.5°	7006.5	6726.6	5612.8	4251.1	3533.9	3452.2	3536.8	3615.5	3723.4	3775.9	3729.2
25°	7064.8	6656.6	5239.6	3764.2	3329.8	3399.7	3490.1	3598.0	3673.8	3703.0	3723.4
27.5°	7114.4	6548.7	4735.2	3440.6	3265.6	3396.8	3490.1	3580.5	3621.3	3647.6	3670.9
30°	7254.4	6516.7	4297.8	3224.8	3224.8	3338.5	3458.1	3481.4	3536.8	3568.9	3609.7
32.5°	7324.3	6295.1	3848.8	3087.8	3184.0	3367.7	3376.4	3420.2	3423.1	3449.3	3405.6
35°	7508.0	6137.6	3431.8	2988.6	3201.5	3338.5	3382.3	3356.0	3213.1	3143.2	3157.7
37.5°	7642.1	6058.9	3131.5	2977.0	3204.4	3370.6	3393.9	3195.6	3046.9	2930.3	2959.5
40°	8003.7	5863.5	2904.1	2956.6	3230.6	3405.6	3341.4	3125.7	2857.4	2737.9	2717.5
42.5°	8280.7	5723.6	2761.2	2933.2	3251.0	3455.1	3315.2	2985.7	2711.6	2600.8	2630.0
45°	8601.4	5691.5	2685.4	2939.1	3286.0	3481.4	3283.1	2877.8	2586.3	2542.5	2533.8
47.5°	8715.1	5461.2	2603.8	2889.5	3277.3	3472.6	3175.2	2796.2	2539.6	2545.4	2568.8
50°	8525.6	5225.0	2542.5	2787.4	3219.0	3393.9	3006.1	2688.3	2513.4	2586.3	2627.1
52.5°	8283.6	4983.0	2417.1	2650.4	3099.4	3271.5	2927.4	2682.5	2487.1	2463.8	2472.5
55°	8356.5	4784.7	2242.2	2463.8	2907.0	3044.0	2839.9	2627.1	2423.0	2335.5	2364.7
56°	8120.3	4580.6	2128.5	2347.2	2775.8	2898.2	2796.2	2577.5	2370.5	2312.2	2312.2
57.5°	7452.6	3895.4	1979.8	2160.6	2498.8	2644.6	2711.6	2548.4	2312.2	2210.1	2213.0
60°	5496.2	2770.0	1775.7	1904.0	2070.2	2186.8	2498.8	2466.7	2166.4	2096.4	2070.2
62.5°	3388.1	2023.5	1629.9	1679.5	1764.0	1860.2	2181.0	2233.5	2011.9	1936.0	1918.6
65°	1898.1	1548.3	1519.1	1539.5	1580.3	1629.9	1810.7	1927.3	1775.7	1659.1	1653.2
67.5°	1387.9	1385.0	1408.3	1425.8	1443.3	1443.3	1487.0	1533.7	1513.3	1420.0	1411.2
70°	1233.4	1242.1	1259.6	1262.5	1268.3	1247.9	1212.9	1198.4	1221.7	1163.4	1151.7
72.5°	1017.6	1046.7	1067.2	1070.1	1038.0	1011.8	965.1	915.5	898.0	886.4	883.5
75°	781.4	801.8	810.6	807.7	796.0	758.1	702.7	653.1	621.1	586.1	603.6
77.5°	527.7	556.9	571.5	571.5	554.0	495.7	469.4	431.5	399.5	361.6	367.4
80°	370.3	390.7	414.0	411.1	382.0	352.8	314.9	279.9	253.7	224.5	221.6
82.5°	277.0	288.7	300.3	294.5	274.1	244.9	218.7	186.6	157.4	137.0	137.0
85°	99.1	107.9	131.2	137.0	148.7	148.7	125.4	105.0	84.6	70.0	70.0
87.5°	29.2	29.2	32.1	32.1	29.2	32.1	26.2	29.2	32.1	20.4	20.4
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)