

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: P530688

Luminaire Tested: **GALN-SA5D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26247 lumens
Efficiency: N/A
Efficacy: 84.9 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): 309
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

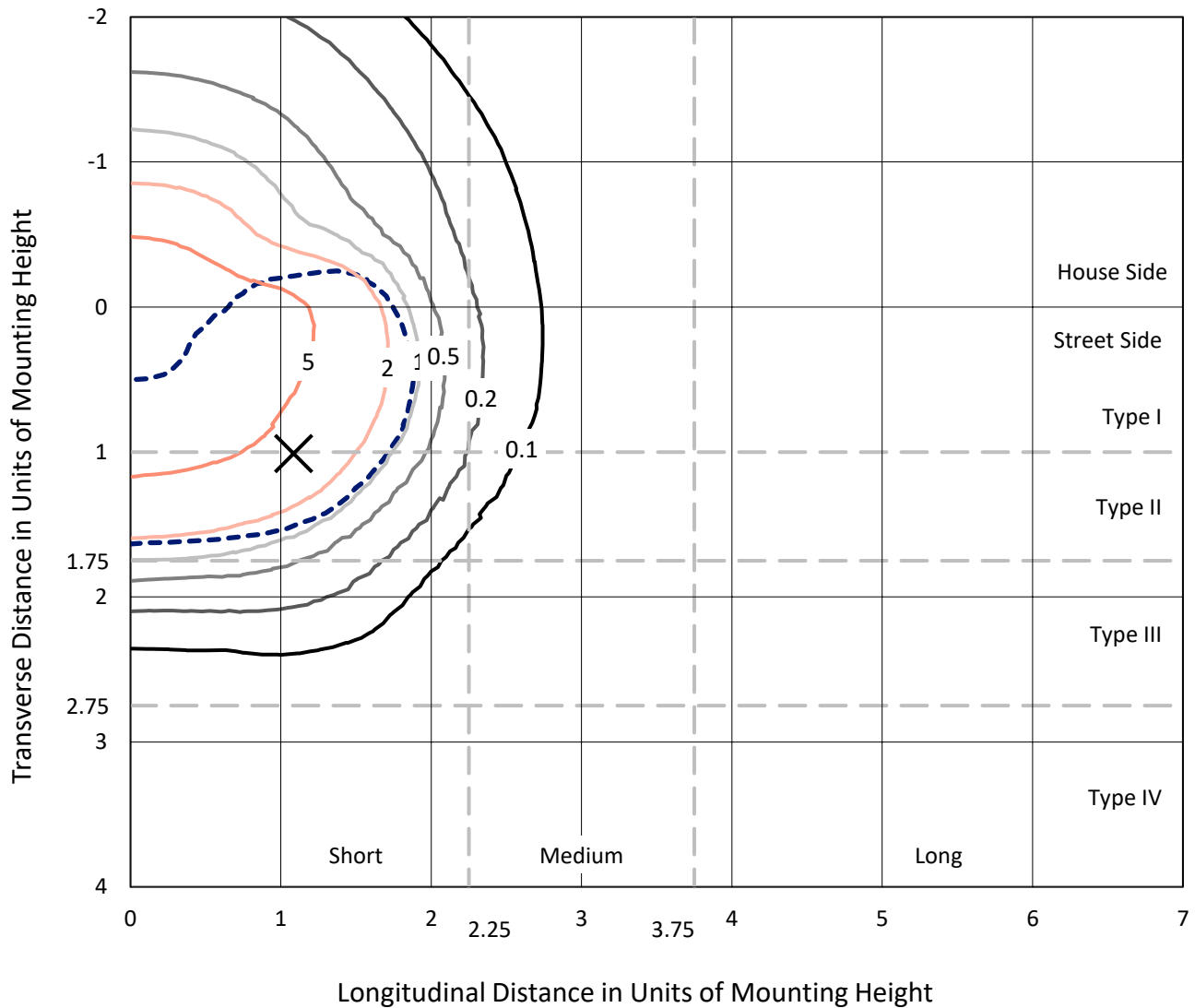


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

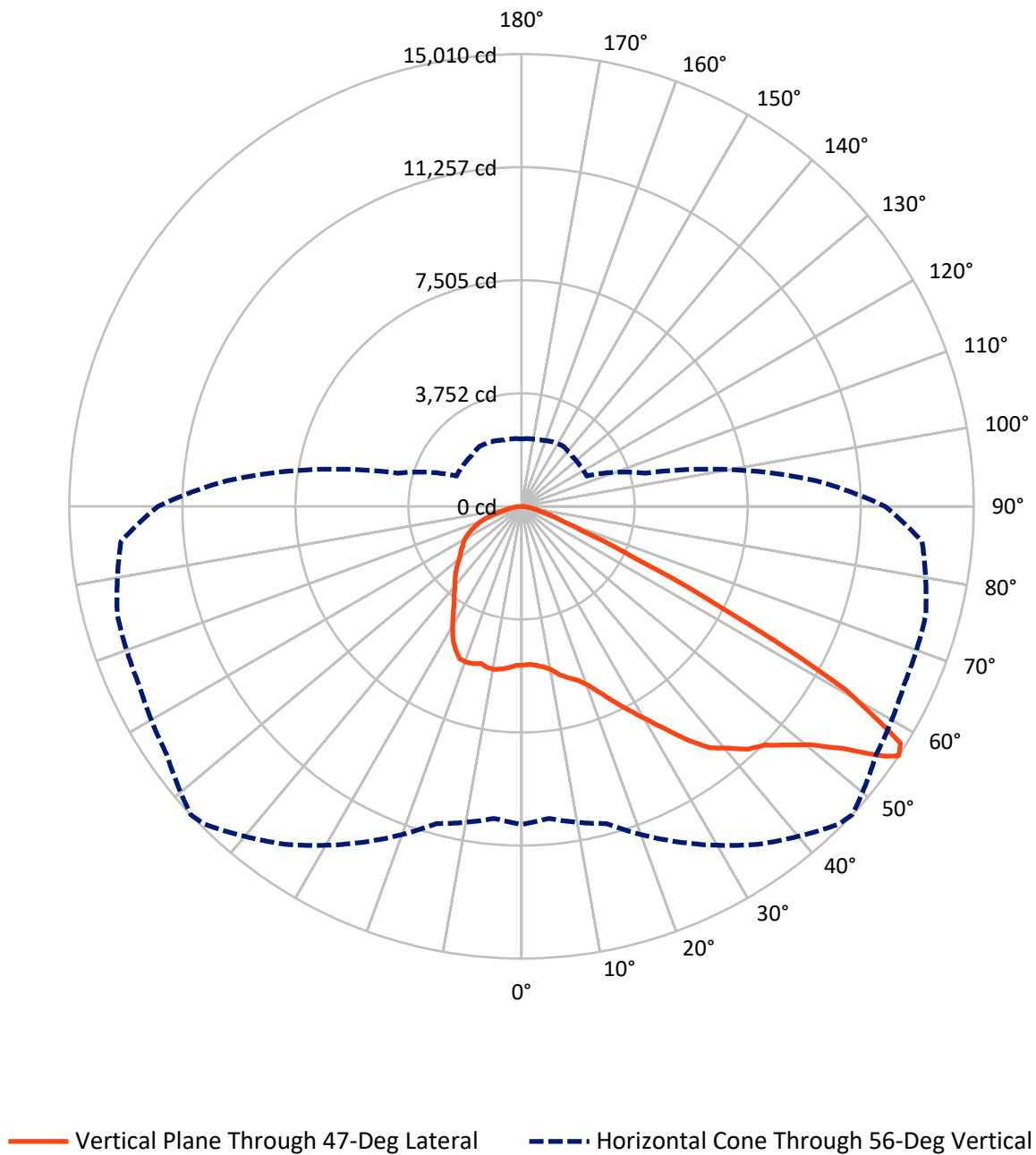


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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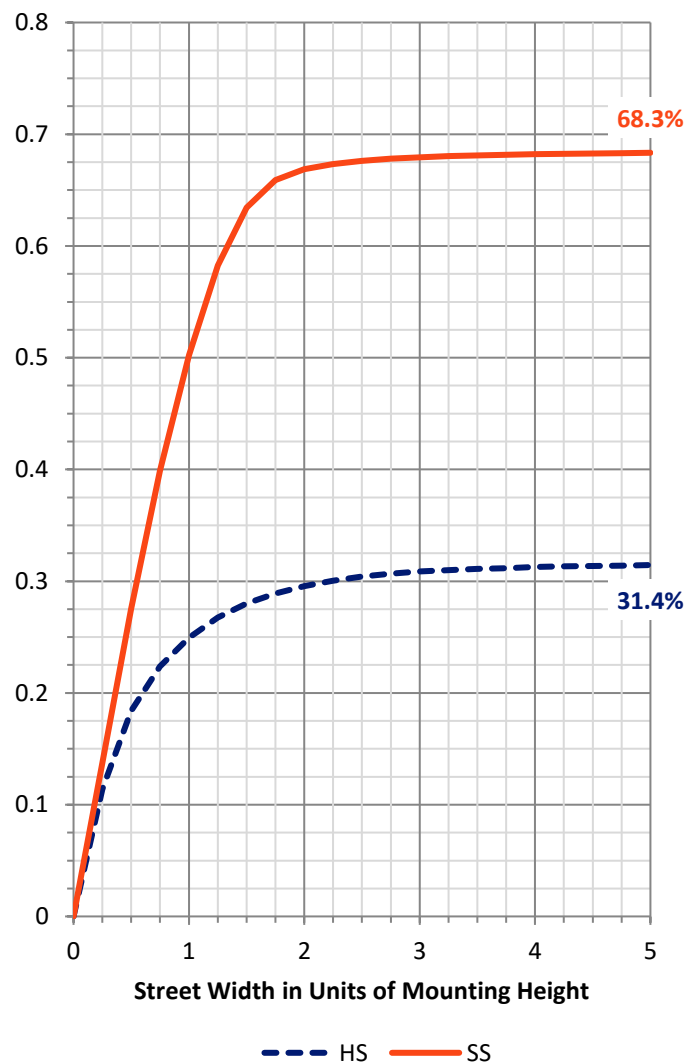
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8317.4	0.0	8317.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	17929.6	0.0	17929.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	26247.0	0.0	26247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.7	2.0
10°-20°	1620.5	6.2
20°-30°	2864.6	10.9
30°-40°	4302.6	16.4
40°-50°	5904.9	22.5
50°-60°	7034.9	26.8
60°-70°	3010.5	11.5
70°-80°	852.0	3.2
80°-90°	143.4	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°	26247.0	100.0
0°-180°	26247.0	100.0

Coefficient of Utilization



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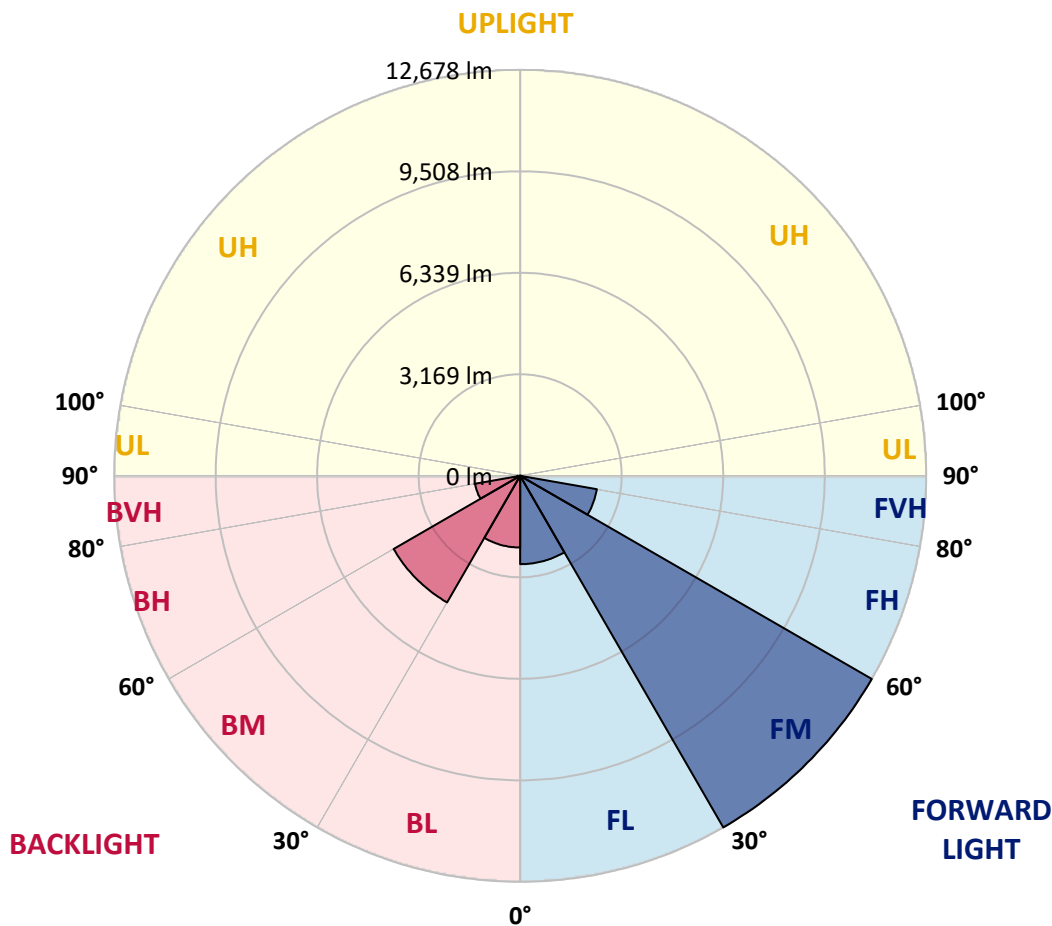
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2759.5	10.5			
FM	(30°-60°)	12677.9	48.3			
FH	(60°-80°)	2431.4	9.3			G2/5000
FVH	(80°-90°)	60.8	0.2			G1/100
BL	(0°-30°)	2239.4	8.5	B3/2500		
BM	(30°-60°)	4564.4	17.4	B3/5000		
BH	(60°-80°)	1431.0	5.5	B3/2500		G3/2500
BVH	(80°-90°)	82.5	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°	47°	55°	65°	75°	85°
0°	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2
2.5°	5252.1	5242.1	5235.4	5289.0	5268.9	5272.2	5252.1	5272.2	5285.6	5255.5	5299.0
5°	5242.1	5272.2	5245.4	5262.2	5305.7	5292.3	5305.7	5345.9	5335.8	5325.8	5312.4
7.5°	5335.8	5339.2	5359.3	5366.0	5379.3	5366.0	5386.0	5422.9	5412.8	5355.9	5362.6
10°	5469.7	5476.4	5479.8	5516.6	5540.0	5543.4	5519.9	5486.5	5483.1	5560.1	5506.5
12.5°	5623.7	5607.0	5647.1	5660.5	5687.3	5717.4	5747.6	5677.3	5720.8	5724.1	5660.5
15°	5848.0	5864.7	5817.9	5817.9	5827.9	5831.2	5914.9	5881.5	5874.8	5837.9	5864.7
17.5°	6182.7	6068.9	6065.6	6018.7	6012.0	6038.8	6068.9	6095.7	6186.1	6112.4	5968.5
20°	6427.1	6453.9	6356.8	6299.9	6309.9	6370.2	6340.1	6460.6	6524.2	6403.7	6263.1
22.5°	6858.9	6768.5	6792.0	6664.8	6674.8	6738.4	6735.1	6858.9	6895.7	6704.9	6500.7
25°	7150.1	7126.7	7146.8	7046.4	7059.8	7110.0	7190.3	7394.5	7334.3	7123.4	6651.4
27.5°	7575.3	7528.4	7511.7	7474.8	7461.5	7595.4	7689.1	7906.7	7863.1	7555.2	6919.2
30°	8010.4	7980.3	7997.0	7846.4	7900.0	8184.5	8211.3	8509.2	8489.1	7946.8	7217.1
32.5°	8311.7	8328.4	8358.6	8274.9	8512.6	8740.2	8830.6	9168.7	9185.4	8619.7	7792.9
35°	8797.1	8740.2	8756.9	8854.0	8964.5	9379.5	9526.8	9751.1	9891.7	9326.0	8345.2
37.5°	9101.7	9162.0	9091.7	9245.6	9533.5	10032.3	10166.2	10397.2	10544.4	10022.2	9098.4
40°	9577.0	9480.0	9530.2	9640.6	9935.2	10584.6	10547.8	10785.5	10832.3	10614.7	9801.3
42.5°	10089.2	10042.3	9972.0	10223.1	10470.8	10942.8	11016.4	10906.0	11143.6	11193.9	10805.6
45°	10701.8	10758.7	10768.7	10775.4	10993.0	11404.7	11304.3	11207.2	11481.7	11846.6	11428.2
47.5°	11270.8	11090.1	11220.6	11401.4	11709.4	11712.7	11829.9	11598.9	11890.1	12214.8	11990.5
50°	11461.6	11374.6	11548.7	11890.1	12365.5	12415.7	12429.1	12101.0	12251.6	12509.4	12184.7
52.5°	11388.0	11357.9	11803.1	12332.0	13028.3	13282.7	13349.6	12944.6	13028.3	12911.1	12613.2
55°	11036.5	11126.9	11575.5	12653.3	13721.2	14507.8	14635.0	14122.9	13590.6	13681.0	13353.0
56°	10554.5	10397.2	10899.3	12288.5	13691.0	14906.2	15009.9	14370.6	14009.1	13891.9	13346.3
57.5°	8954.4	8750.2	9409.7	11056.6	12931.2	14755.5	14832.5	14474.3	13938.8	13701.1	12372.2
60°	5242.1	5342.5	6179.4	7625.5	9975.4	12097.7	12355.4	12616.5	12258.3	11193.9	9208.8
62.5°	2530.7	2467.1	3066.3	4371.8	6079.0	7722.6	7645.6	8378.7	8780.3	7953.5	5814.5
65°	1325.6	1318.9	1673.7	2386.7	3340.7	4057.1	4127.4	4522.4	5074.7	4097.3	2952.4
67.5°	974.1	1000.9	1178.3	1677.1	2149.1	2192.6	2182.5	2380.0	2433.6	2058.7	1814.3
70°	763.2	776.6	907.2	1275.4	1600.1	1432.7	1402.6	1426.0	1583.3	1650.3	1570.0
72.5°	552.3	565.7	676.2	860.3	1000.9	977.5	997.5	1128.1	1322.2	1392.5	1308.9
75°	368.2	378.3	438.5	525.5	592.5	639.4	676.2	826.8	1007.6	1047.8	1007.6
77.5°	254.4	264.4	304.6	371.6	378.3	408.4	421.8	492.1	602.5	652.8	626.0
80°	143.9	143.9	164.0	190.8	234.3	274.5	281.2	338.1	388.3	421.8	428.5
82.5°	66.9	70.3	87.0	117.2	154.0	190.8	197.5	234.3	271.1	304.6	314.7
85°	33.5	36.8	50.2	70.3	93.7	113.8	110.5	113.8	120.5	113.8	117.2
87.5°	10.0	10.0	13.4	16.7	13.4	16.7	16.7	20.1	23.4	26.8	30.1
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°	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2	5272.2
2.5°	5302.4	5312.4	5245.4	5309.0	5285.6	5282.3	5329.1	5322.4	5339.2	5332.5	5292.3
5°	5305.7	5282.3	5352.6	5289.0	5319.1	5382.7	5339.2	5439.6	5389.4	5422.9	5349.2
7.5°	5409.5	5416.2	5402.8	5429.6	5416.2	5446.3	5422.9	5446.3	5406.1	5409.5	5476.4
10°	5499.9	5479.8	5503.2	5469.7	5493.2	5483.1	5429.6	5412.8	5426.2	5409.5	5453.0
12.5°	5667.2	5630.4	5613.7	5573.5	5546.7	5446.3	5362.6	5315.7	5379.3	5389.4	5369.3
15°	5837.9	5841.3	5764.3	5673.9	5506.5	5355.9	5376.0	5392.7	5392.7	5419.5	5369.3
17.5°	5945.1	5945.1	5874.8	5694.0	5523.3	5436.2	5416.2	5362.6	5315.7	5309.0	5305.7
20°	6132.5	6075.6	5914.9	5690.7	5516.6	5476.4	5325.8	5198.6	5101.5	5068.0	5064.7
22.5°	6346.8	6202.8	5978.5	5697.4	5506.5	5449.6	5168.5	4977.6	4803.6	4729.9	4740.0
25°	6544.3	6313.3	6015.4	5667.2	5469.7	5195.2	4880.6	4616.1	4435.4	4375.1	4345.0
27.5°	6681.5	6430.4	6015.4	5694.0	5332.5	4910.7	4589.3	4251.3	4093.9	4053.8	4060.4
30°	6865.6	6577.7	6119.1	5637.1	5058.0	4542.5	4157.5	3936.6	3842.9	3809.4	3832.8
32.5°	7297.4	6962.7	6263.1	5499.9	4733.3	4174.3	3863.0	3739.1	3601.9	3534.9	3511.5
35°	7766.1	7327.6	6403.7	5268.9	4368.4	3839.5	3645.4	3531.6	3367.5	3293.9	3307.3
37.5°	8428.9	7796.2	6413.7	4887.3	3973.4	3652.1	3474.6	3297.2	3163.3	3049.5	3016.0
40°	9322.6	8435.6	6390.3	4485.6	3655.4	3431.1	3300.6	3079.6	2929.0	2848.7	2865.4
42.5°	10109.3	9185.4	6293.2	4030.3	3367.5	3280.5	3133.2	2915.6	2768.3	2684.7	2678.0
45°	10772.1	9737.7	6109.1	3642.0	3126.5	3113.1	2942.4	2775.0	2657.9	2580.9	2614.4
47.5°	11384.7	10182.9	5831.2	3253.7	2905.6	2932.4	2768.3	2664.6	2590.9	2520.6	2517.3
50°	11605.6	10176.2	5586.9	2932.4	2728.2	2714.8	2708.1	2597.6	2520.6	2460.4	2487.2
52.5°	11973.8	10290.0	5322.4	2711.4	2567.5	2570.8	2594.3	2513.9	2426.9	2390.1	2423.5
55°	12502.7	10306.8	4740.0	2453.7	2433.6	2457.0	2457.0	2403.5	2329.8	2299.7	2283.0
56°	12070.9	9808.0	4251.3	2386.7	2366.6	2366.6	2430.2	2370.0	2279.6	2256.2	2236.1
57.5°	11133.6	8592.9	3558.3	2306.4	2276.3	2323.1	2356.6	2293.0	2209.3	2175.8	2195.9
60°	7679.0	5814.5	2674.6	2132.3	2132.3	2209.3	2236.1	2142.4	2105.5	2102.2	2075.4
62.5°	4482.2	3387.6	2092.2	1975.0	1981.7	2045.3	2065.4	2011.8	1964.9	2021.9	2048.6
65°	2376.7	2021.9	1794.2	1807.6	1811.0	1861.2	1948.2	1944.9	1941.5	1958.3	1961.6
67.5°	1720.6	1680.4	1630.2	1616.8	1623.5	1660.3	1747.4	1814.3	1811.0	1770.8	1740.7
70°	1533.1	1476.2	1446.1	1449.4	1422.7	1466.2	1536.5	1580.0	1503.0	1456.1	1436.1
72.5°	1275.4	1258.6	1238.6	1241.9	1188.3	1178.3	1098.0	1098.0	1077.9	1064.5	1087.9
75°	974.1	967.4	977.5	960.7	903.8	843.6	796.7	753.2	686.2	659.4	646.1
77.5°	615.9	636.0	659.4	622.6	599.2	555.7	508.8	465.3	411.7	381.6	381.6
80°	418.4	435.2	451.9	445.2	418.4	378.3	341.4	294.6	257.8	234.3	231.0
82.5°	318.0	331.4	354.8	328.0	301.3	267.8	237.7	204.2	170.7	143.9	143.9
85°	113.8	130.6	143.9	157.3	167.4	170.7	147.3	120.5	97.1	77.0	73.6
87.5°	30.1	33.5	36.8	33.5	33.5	33.5	36.8	33.5	30.1	23.4	23.4
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)