

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: P954153

Luminaire Tested: **GALN-SB7C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49304 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 350.5
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



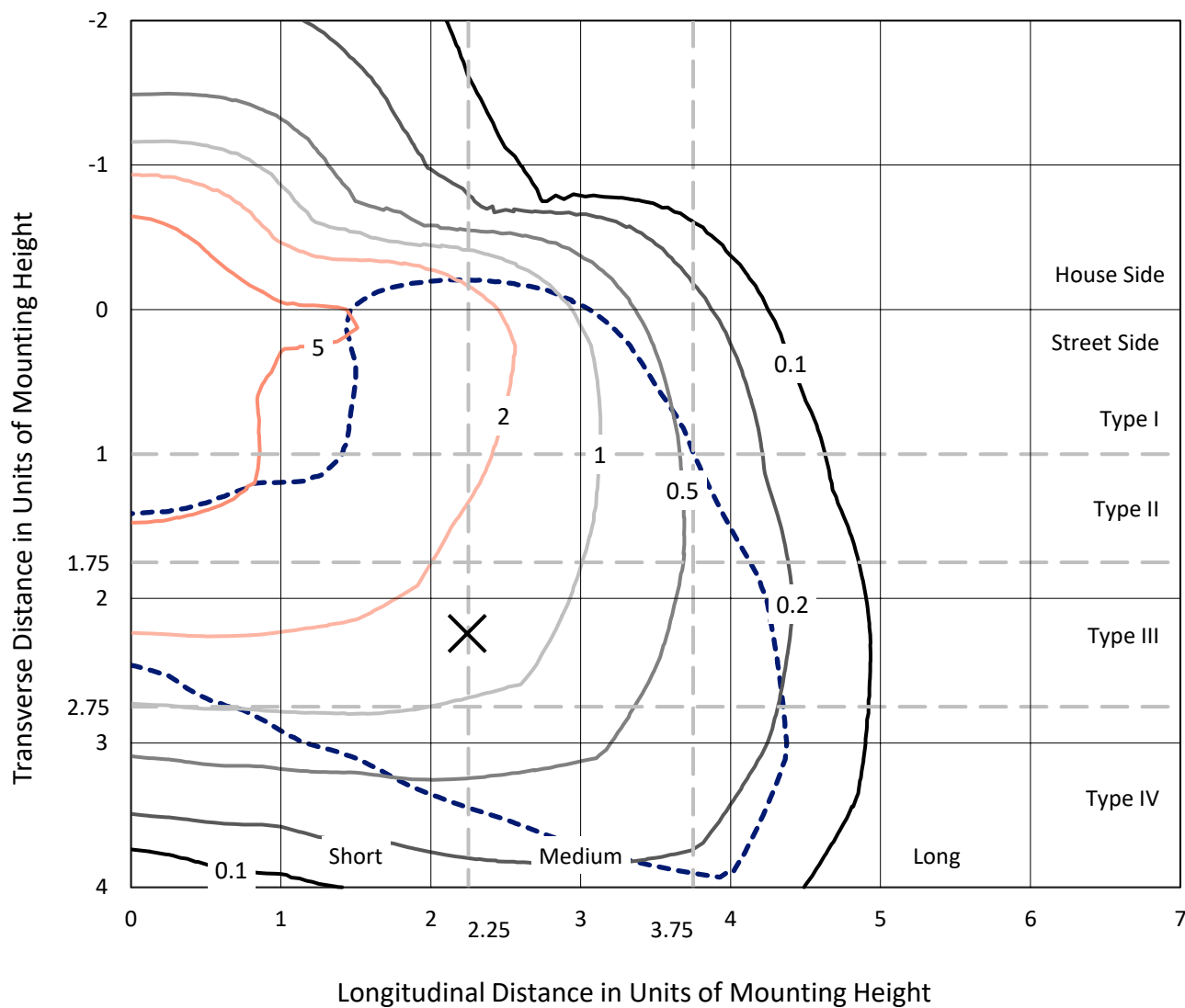
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

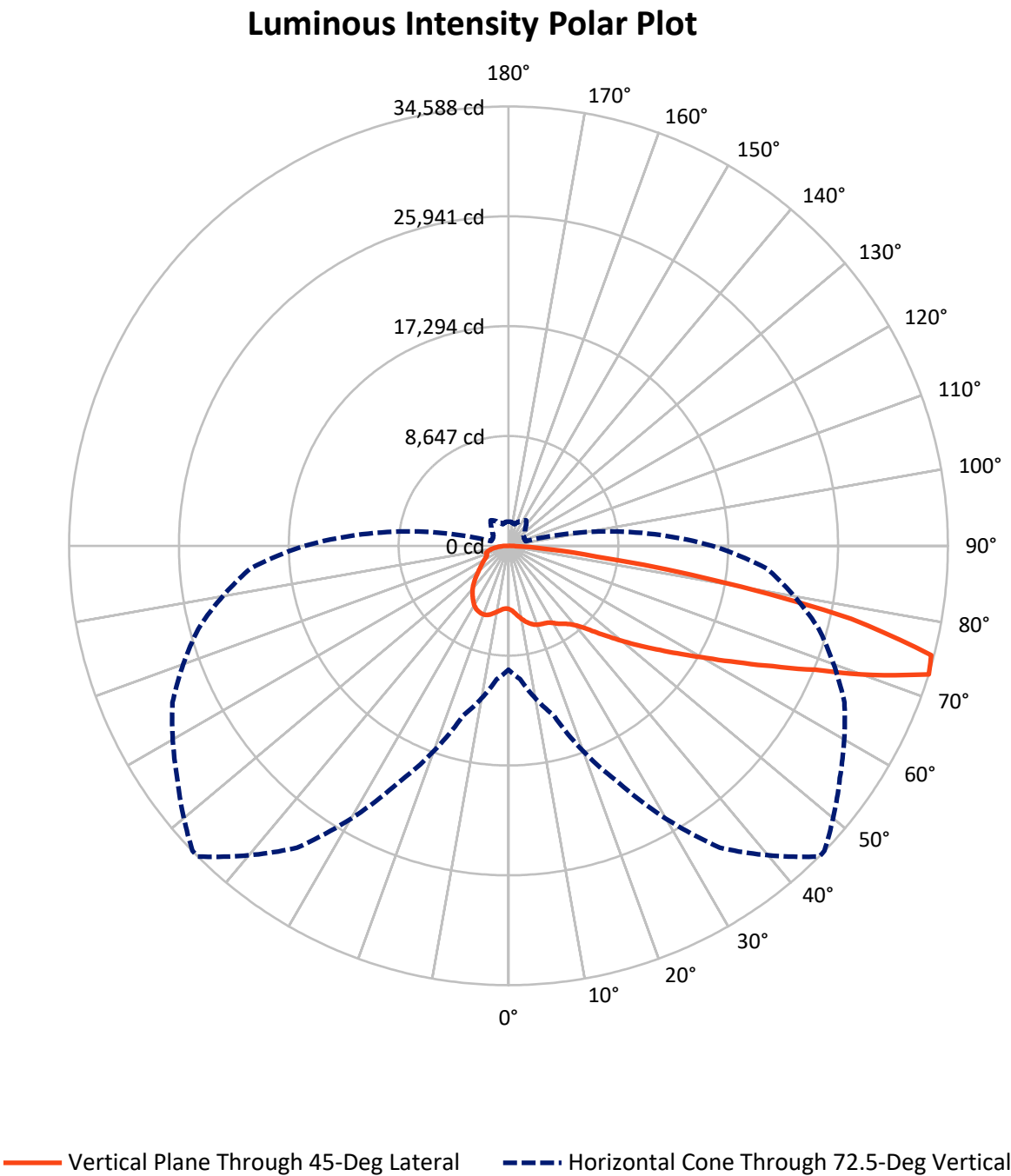
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc

Type IV - Short - N/A

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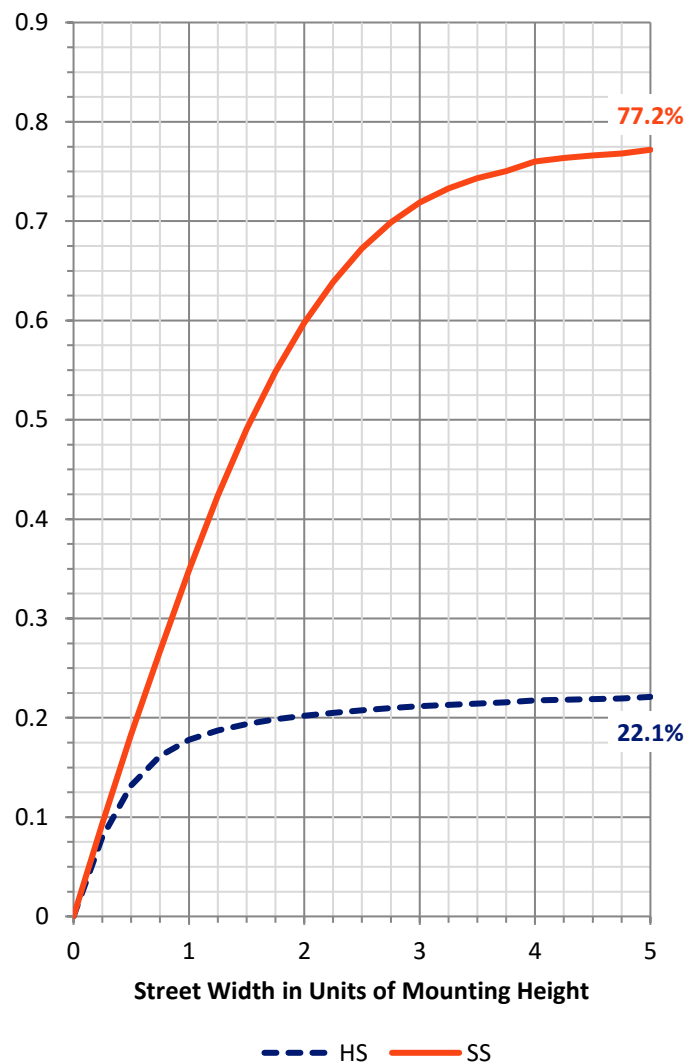
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11145.9	0.0	11145.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	38158.1	0.0	38158.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	49304.0	0.0	49304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.2	1.0
10°-20°	1687.9	3.4
20°-30°	2936.1	6.0
30°-40°	4209.1	8.5
40°-50°	5926.6	12.0
50°-60°	9077.9	18.4
60°-70°	13150.7	26.7
70°-80°	10501.6	21.3
80°-90°	1307.9	2.7
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°	49304.0	100.0
0°-180°	49304.0	100.0

Coefficient of Utilization



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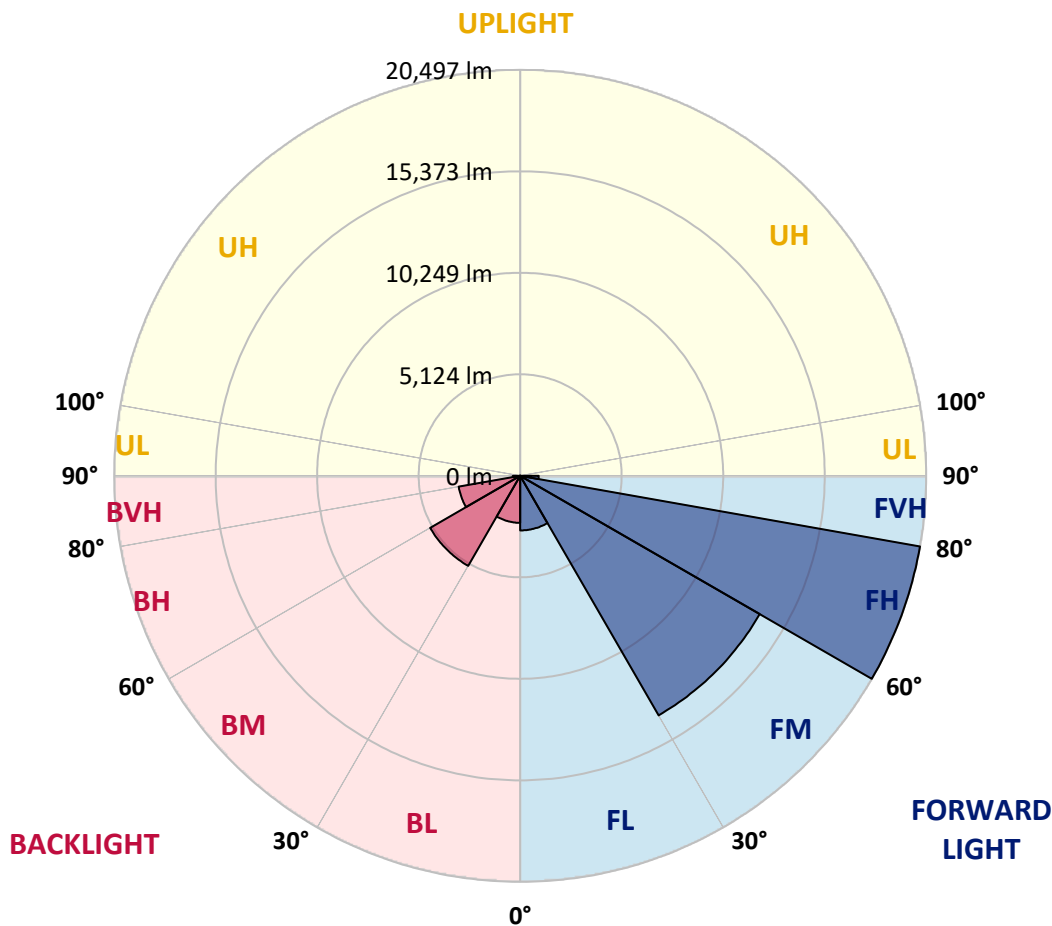
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2757.2	5.6			
FM	(30°-60°)	13965.5	28.3			
FH	(60°-80°)	20497.1	41.6			G5
FVH	(80°-90°)	938.3	1.9			G5
BL	(0°-30°)	2373.1	4.8	B3/2500		
BM	(30°-60°)	5248.2	10.6	B4/8500		
BH	(60°-80°)	3155.1	6.4	B4/5000		G4/5000
BVH	(80°-90°)	369.6	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8
2.5°	5168.6	5202.4	5171.2	5142.6	5129.7	5095.9	5093.3	5072.5	5059.5	5023.2	5012.8
5°	5529.6	5573.8	5521.8	5464.7	5412.8	5329.6	5319.3	5259.5	5192.0	5114.1	5069.9
7.5°	5937.4	5976.4	5916.6	5830.9	5740.0	5602.4	5599.8	5490.7	5384.2	5251.7	5176.4
10°	6293.2	6345.2	6264.7	6147.8	6033.5	5877.7	5859.5	5734.8	5599.8	5428.3	5314.1
12.5°	6607.5	6643.9	6566.0	6423.1	6290.6	6134.8	6111.4	5973.8	5823.1	5628.3	5482.9
15°	6856.9	6903.6	6799.7	6646.5	6506.2	6353.0	6332.2	6207.5	6056.9	5851.7	5664.7
17.5°	7020.5	7059.4	6953.0	6781.5	6646.5	6519.2	6503.6	6399.7	6267.3	6059.5	5859.5
20°	7082.8	7124.4	7012.7	6838.7	6714.0	6615.3	6607.5	6532.2	6441.3	6251.7	6049.1
22.5°	7145.1	7184.1	7038.7	6856.9	6747.8	6685.4	6682.8	6633.5	6597.1	6441.3	6243.9
25°	7397.1	7407.5	7212.7	6950.4	6794.5	6740.0	6737.4	6734.8	6750.4	6628.3	6454.3
27.5°	7615.3	7612.7	7446.4	7199.7	6958.1	6843.9	6841.3	6867.2	6916.6	6815.3	6672.4
30°	7934.7	7906.2	7708.8	7451.6	7230.9	7054.2	7038.7	7015.3	7054.2	6973.7	6890.6
32.5°	8612.6	8521.7	8202.2	7745.1	7456.8	7321.8	7301.0	7155.5	7171.1	7121.8	7080.2
35°	9584.0	9464.5	9038.6	8300.9	7737.3	7545.1	7534.7	7350.3	7319.2	7275.0	7290.6
37.5°	10739.8	10591.8	10095.7	9106.1	8220.4	7804.9	7789.3	7623.1	7495.8	7449.0	7537.3
40°	11900.8	11713.8	11303.4	10087.9	8932.1	8238.6	8189.3	7937.3	7791.9	7714.0	7901.0
42.5°	13028.0	12872.2	12521.5	11189.1	9810.0	8872.3	8763.3	8332.1	8223.0	8150.3	8487.9
45°	14025.4	13885.1	13628.0	12365.7	10838.5	9734.7	9628.2	8924.3	8890.5	8890.5	9378.8
47.5°	14835.7	14804.6	14531.8	13565.7	12051.4	10716.4	10532.0	9747.6	9838.5	9978.8	10643.7
50°	15734.4	15648.7	15357.8	14747.4	13477.3	11841.1	11690.4	10758.0	11098.2	11482.6	12472.2
52.5°	16560.3	16607.1	16282.4	15978.5	15087.7	13095.5	12830.6	11950.1	12685.2	13321.5	14615.0
55°	17409.6	17412.2	17321.3	17279.8	16775.9	14482.5	14191.6	13383.8	14552.6	15342.2	17113.6
57.5°	18207.0	18212.2	18347.3	18713.5	18734.3	16082.4	15752.6	15144.8	16627.9	17433.0	19690.1
60°	18918.7	18955.0	19323.9	20181.0	20456.3	17916.1	17604.4	17225.2	18773.2	19583.6	22399.0
62.5°	19157.6	19290.1	20110.8	21329.0	22157.5	20165.4	19858.9	19632.9	21027.7	21780.9	24663.9
65°	18752.4	19056.3	20643.3	22277.0	23908.1	22838.0	22534.1	22287.4	23370.4	24079.5	26523.5
67.5°	17757.7	18149.9	20612.1	23271.7	26032.7	26053.4	25770.3	25191.1	25882.0	26154.7	27128.7
70°	15137.0	15724.0	18796.6	23643.1	28471.5	30450.7	30177.9	28687.1	28388.4	27069.0	25424.9
72.5°	9752.8	10542.4	13841.0	20586.1	29014.3	34588.1	34572.6	31842.8	29180.6	25292.4	20391.3
75°	3558.3	4041.4	6430.9	12921.5	24354.8	34377.8	34479.0	31302.6	26637.8	19536.8	12703.4
77.5°	1296.0	1418.1	2098.6	4966.0	14978.6	27583.2	27793.6	25024.9	18960.2	9804.8	5033.6
80°	680.5	748.0	1075.3	1927.2	6417.9	16381.1	16711.0	14872.1	8911.3	2953.1	1509.0
82.5°	376.6	407.8	602.6	1046.7	2890.8	7004.9	7202.3	5875.1	3134.9	1251.9	623.4
85°	202.6	215.6	283.1	571.4	1412.9	2428.5	2483.0	1755.8	1249.3	735.0	301.3
87.5°	59.7	72.7	93.5	181.8	553.2	545.4	558.4	348.0	493.5	371.4	98.7
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°	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8	4973.8
2.5°	4997.2	4989.4	4960.8	4947.8	4932.3	4929.7	4942.6	4945.2	4947.8	4950.4	4960.8
5°	5043.9	5018.0	4992.0	4976.4	4981.6	4984.2	5010.2	5028.4	5041.3	5051.7	5056.9
7.5°	5134.8	5114.1	5069.9	5067.3	5075.1	5098.5	5132.2	5173.8	5197.2	5215.4	5220.6
10°	5269.9	5230.9	5179.0	5186.8	5202.4	5236.1	5306.3	5340.0	5379.0	5412.8	5405.0
12.5°	5407.6	5373.8	5314.1	5319.3	5345.2	5405.0	5472.5	5514.1	5540.0	5566.0	5576.4
15°	5586.8	5527.0	5462.1	5462.1	5508.9	5573.8	5605.0	5638.7	5654.3	5682.9	5693.3
17.5°	5771.2	5693.3	5607.6	5602.4	5659.5	5690.7	5708.8	5714.0	5719.2	5750.4	5760.8
20°	5955.6	5869.9	5747.8	5737.4	5750.4	5745.2	5742.6	5737.4	5745.2	5784.2	5799.8
22.5°	6137.4	6038.7	5869.9	5823.1	5786.8	5737.4	5734.8	5732.2	5737.4	5776.4	5802.4
25°	6350.4	6230.9	6004.9	5864.7	5742.6	5675.1	5682.9	5685.5	5690.7	5721.8	5763.4
27.5°	6581.5	6449.1	6129.6	5851.7	5630.9	5584.2	5571.2	5579.0	5597.2	5646.5	5695.9
30°	6812.7	6656.9	6243.9	5799.8	5490.7	5425.7	5384.2	5402.4	5459.5	5508.9	5563.4
32.5°	7023.1	6867.2	6334.8	5685.5	5311.5	5210.2	5155.6	5179.0	5236.1	5254.3	5319.3
35°	7269.8	7093.2	6373.8	5503.7	5116.7	4960.8	4888.1	4854.3	4882.9	4864.7	4921.9
37.5°	7545.1	7360.7	6368.6	5264.7	4888.1	4708.9	4607.6	4480.3	4420.6	4358.3	4397.2
40°	7952.9	7688.0	6306.2	4976.4	4605.0	4441.4	4259.6	4044.0	3908.9	3786.9	3794.6
42.5°	8508.7	8142.5	6191.9	4659.5	4285.5	4132.3	3885.5	3633.6	3420.6	3218.0	3199.9
45°	9337.3	8737.3	6049.1	4321.9	3940.1	3789.4	3521.9	3238.8	2997.3	2737.5	2706.4
47.5°	10532.0	9537.3	5914.0	3937.5	3576.5	3438.8	3197.3	2934.9	2649.2	2397.3	2368.7
50°	12173.5	10685.3	5789.4	3563.5	3218.0	3114.2	2922.0	2654.4	2366.1	2163.5	2150.6
52.5°	14261.7	12246.2	5737.4	3202.5	2883.0	2844.0	2690.8	2441.5	2168.7	1997.3	1984.3
55°	16659.0	14113.7	5737.4	2857.0	2589.5	2602.5	2496.0	2264.8	2028.5	1875.2	1859.7
57.5°	19105.7	16004.5	5633.5	2537.6	2340.2	2394.7	2327.2	2124.6	1911.6	1753.2	1727.2
60°	21360.1	17588.9	5212.8	2246.7	2119.4	2205.1	2160.9	1986.9	1727.2	1594.7	1574.0
62.5°	23092.5	18482.3	4402.4	2015.5	1937.6	2036.3	2012.9	1805.1	1693.4	1638.9	1620.7
65°	23960.0	18336.9	3366.1	1810.3	1784.3	1937.6	1888.2	1880.4	1792.1	1729.8	1709.0
67.5°	23427.6	17085.0	2441.5	1659.7	1696.0	1846.7	2036.3	2067.4	1903.8	1781.7	1761.0
70°	21092.6	14820.1	1818.1	1516.8	1584.3	1849.3	2322.0	2163.5	1867.5	1724.6	1701.2
72.5°	16046.1	11051.5	1410.3	1366.2	1438.9	1862.3	2449.2	2119.4	1763.6	1906.4	1890.8
75°	9176.2	6067.3	1132.4	1181.8	1257.1	1740.2	2384.3	2005.1	1683.0	1750.6	1750.6
77.5°	3498.6	2332.4	935.0	1000.0	1010.3	1519.4	2280.4	1997.3	1602.5	1563.6	1425.9
80°	1212.9	911.6	774.0	794.8	781.8	1350.6	2186.9	1737.6	1311.6	1174.0	1135.0
82.5°	496.1	454.5	613.0	587.0	555.8	1049.3	1766.2	1420.7	1072.7	948.0	937.6
85°	215.6	288.3	405.2	355.8	322.1	727.2	1415.5	1202.5	906.5	781.8	779.2
87.5°	44.2	109.1	171.4	161.0	166.2	485.7	1005.2	854.5	641.5	480.5	376.6
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)