

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: P954860

Luminaire Tested: **GALN-SB8A-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28486 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 227.1
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

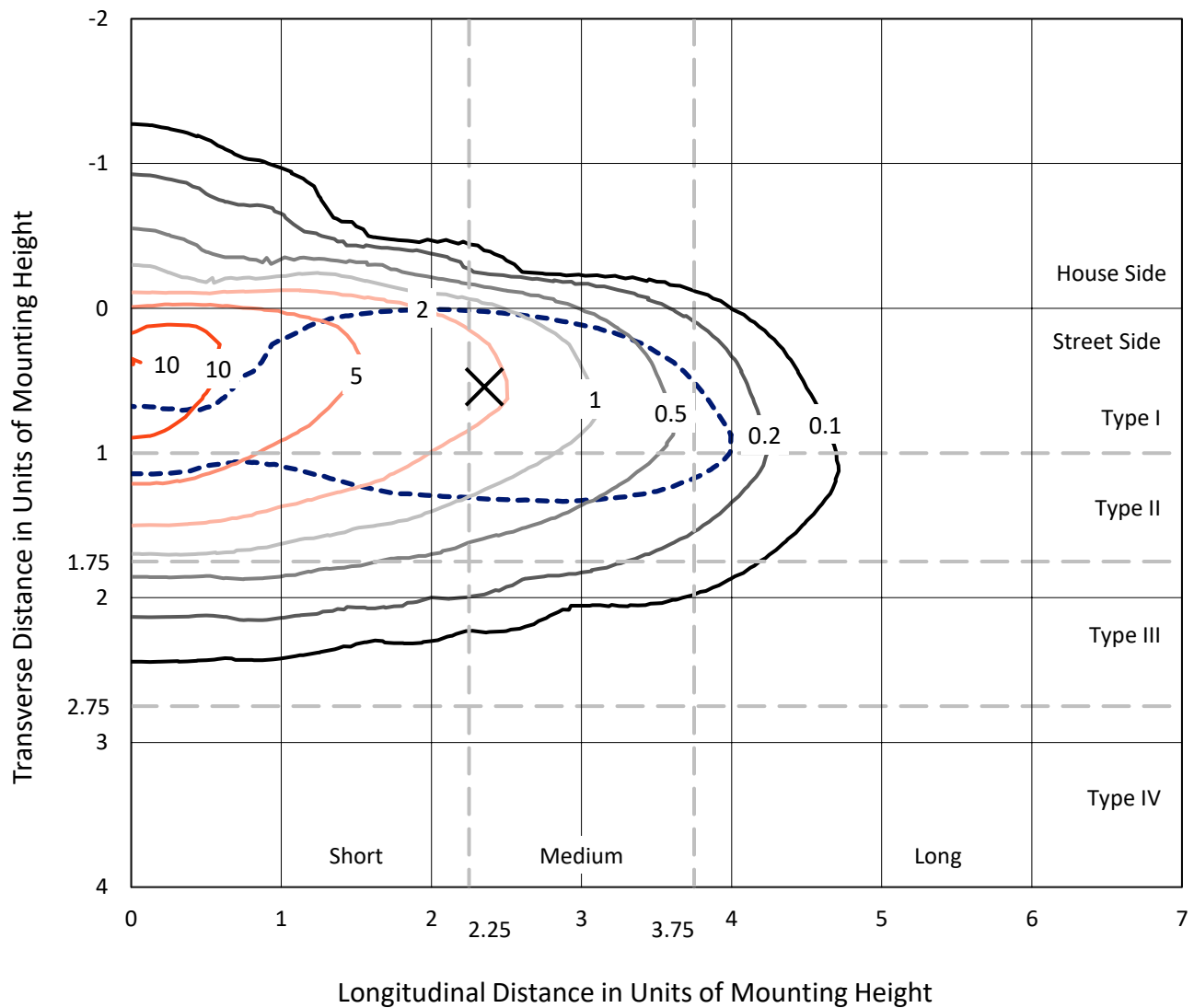


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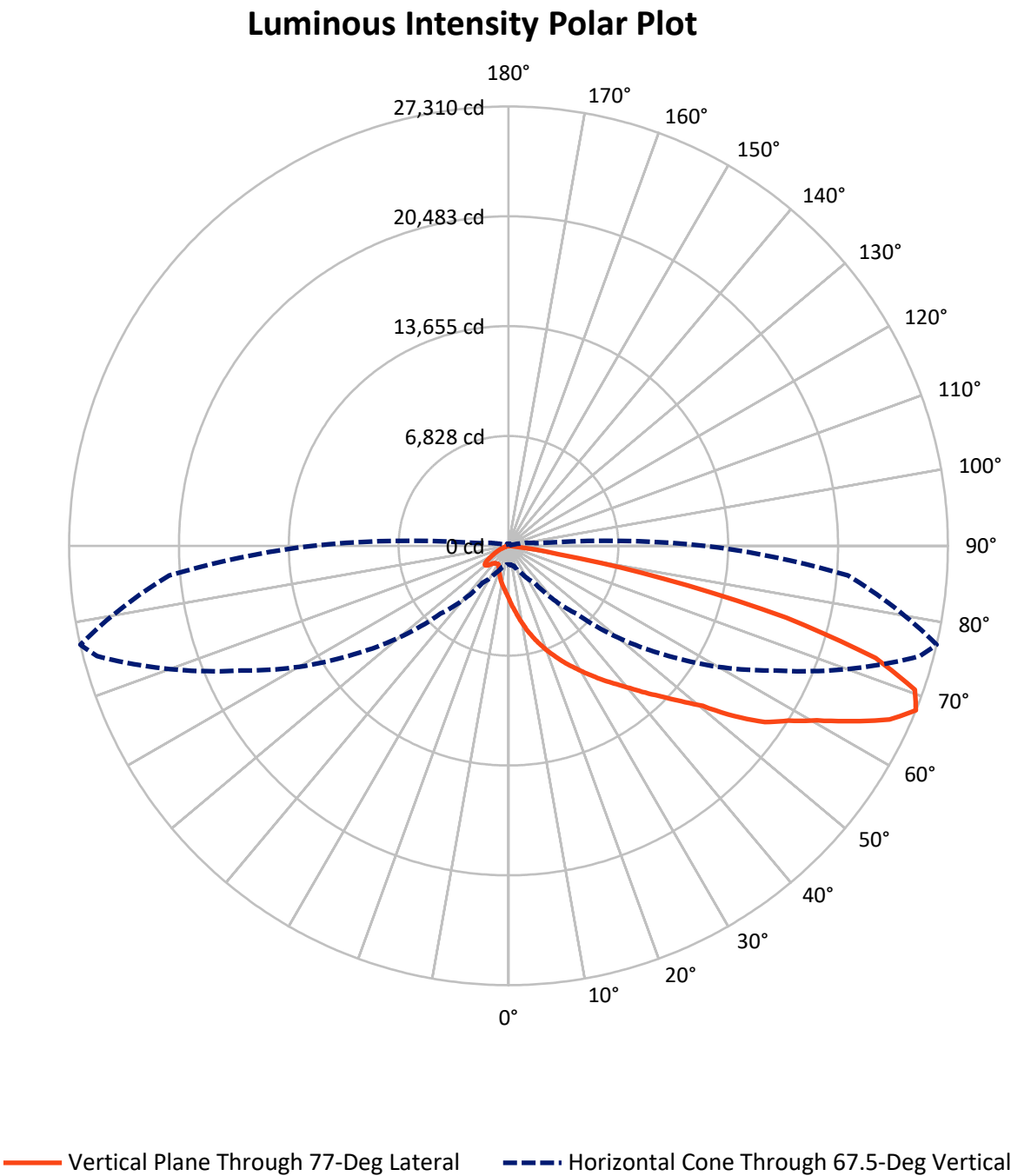
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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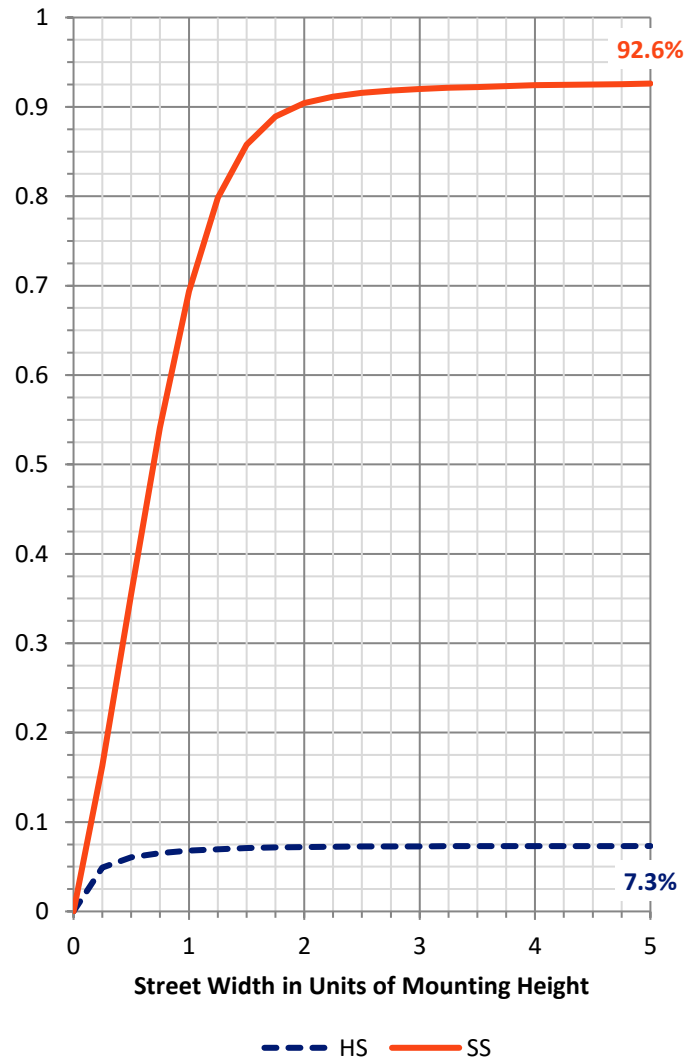
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2095.7	0.0	2095.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	26390.3	0.0	26390.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	28486.0	0.0	28486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.3	1.2
10°-20°	1174.1	4.1
20°-30°	2265.7	8.0
30°-40°	3933.3	13.8
40°-50°	5711.0	20.0
50°-60°	6558.3	23.0
60°-70°	5693.9	20.0
70°-80°	2681.9	9.4
80°-90°	132.6	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°	28486.0	100.0
0°-180°	28486.0	100.0

Coefficient of Utilization



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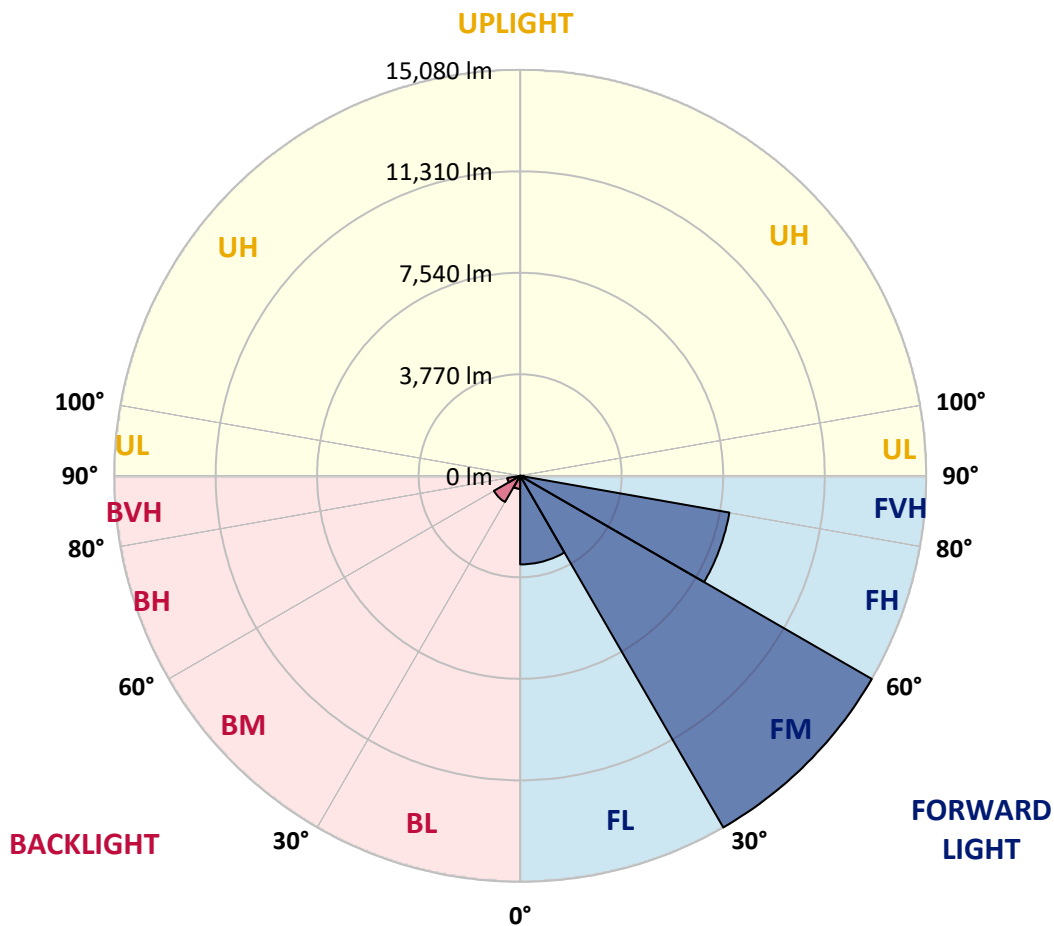
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3289.8	11.5			
FM	(30°-60°)	15079.7	52.9			
FH	(60°-80°)	7890.5	27.7			G4/12000
FVH	(80°-90°)	130.2	0.5			G2/225
BL	(0°-30°)	485.2	1.7	B1/500		
BM	(30°-60°)	1122.9	3.9	B2/2500		
BH	(60°-80°)	485.2	1.7	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9
2.5°	4547.9	4576.2	4535.5	4457.6	4340.9	4264.8	4079.1	3904.0	3709.4	3647.5	3452.9
5°	5543.7	5568.5	5522.5	5437.6	5281.9	5133.4	4889.3	4523.1	4142.8	4020.7	3675.8
7.5°	6281.4	6295.5	6277.8	6200.0	6051.4	5883.4	5611.0	5177.6	4613.3	4478.9	3950.0
10°	6812.0	6858.0	6852.7	6822.7	6723.6	6587.4	6297.3	5803.8	5140.4	4967.1	4259.5
12.5°	7164.1	7215.4	7245.4	7312.6	7307.3	7220.7	6965.9	6444.1	5665.8	5462.4	4608.0
15°	7266.7	7321.5	7436.5	7592.1	7730.1	7774.3	7595.7	7072.1	6244.2	5984.2	4965.3
17.5°	7208.3	7293.2	7431.2	7677.0	7979.5	8179.4	8160.0	7678.8	6769.6	6472.4	5315.6
20°	7337.4	7418.8	7526.7	7733.6	8085.7	8448.3	8593.3	8259.0	7291.4	6980.1	5683.5
22.5°	8052.1	8037.9	8048.5	8082.1	8292.6	8651.7	8950.7	8786.1	7807.9	7489.5	6072.6
25°	9184.1	9120.5	9012.6	8830.4	8777.3	8950.7	9262.0	9253.1	8352.8	8011.4	6470.7
27.5°	10482.5	10471.9	10219.0	9780.3	9532.6	9465.4	9614.0	9707.7	8892.3	8527.9	6870.4
30°	11726.1	11754.4	11413.0	10924.8	10470.1	10206.6	10072.1	10139.4	9440.6	9085.1	7282.6
32.5°	12808.6	12838.7	12467.2	11895.9	11333.4	11015.0	10731.9	10565.7	10038.5	9651.1	7735.4
35°	13723.2	13753.2	13326.9	12695.4	12095.8	11807.4	11487.3	11032.7	10640.0	10279.1	8239.6
37.5°	14540.4	14531.5	13960.2	13323.4	12734.3	12506.2	12338.1	11607.5	11259.1	10910.6	8798.5
40°	15023.3	15060.4	14572.2	13870.0	13298.6	13132.3	13121.7	12320.4	11973.7	11635.8	9410.6
42.5°	15164.8	15230.3	14876.5	14299.8	13781.5	13601.1	13878.8	13091.7	12805.1	12476.1	10102.2
45°	14910.1	14973.8	14812.8	14413.0	14110.5	13993.8	14529.8	13891.2	13693.1	13367.6	10882.3
47.5°	14167.2	14246.8	14285.7	14200.8	14197.2	14315.7	15113.5	14733.2	14747.4	14414.8	11786.2
50°	12729.0	12863.5	13220.8	13521.5	13986.7	14570.5	15681.3	15646.0	15936.1	15649.5	12964.3
52.5°	10114.6	10305.6	11536.8	12359.3	13404.8	14522.7	16305.8	17110.6	18021.6	17602.4	14625.3
55°	8128.1	8128.1	9129.3	10668.3	12269.1	14207.8	16578.2	18062.3	19442.0	19343.0	15794.5
57.5°	6626.3	6705.9	7344.5	8704.8	10625.8	13457.8	16746.2	18660.2	20586.5	20514.0	16937.3
60°	4089.7	4261.3	5467.7	6810.3	8756.1	12122.3	16640.1	19265.1	21975.1	22033.5	18313.5
62.5°	2303.1	2366.8	2904.5	4899.9	6808.5	10326.9	15828.2	19603.0	23751.1	23998.7	19732.1
65°	1590.2	1622.1	1829.0	3049.6	4719.4	8221.9	14241.4	19392.5	25530.6	26031.2	20935.0
67.5°	1155.1	1171.0	1300.1	1862.7	2800.2	5961.2	11754.4	18331.2	26473.4	27310.1	21164.9
70°	888.0	898.6	992.4	1224.1	1653.9	3679.3	8536.7	16220.8	25790.6	26790.0	19986.8
72.5°	721.7	732.3	804.9	905.7	1096.7	2175.8	5174.0	13173.0	22776.4	23855.4	17015.1
75°	608.5	622.7	688.1	753.6	859.7	1397.4	2426.9	9173.5	17128.3	17835.9	11832.2
77.5°	337.9	311.3	559.0	624.4	725.3	884.5	1135.6	5398.7	9592.8	9789.1	5250.1
80°	210.5	217.6	444.0	502.4	557.2	445.8	520.1	2078.5	3325.5	3159.3	1017.1
82.5°	12.4	28.3	341.4	362.6	382.1	191.0	196.3	705.8	801.3	735.9	180.4
85°	0.0	0.0	155.7	125.6	132.7	54.8	56.6	164.5	107.9	116.7	35.4
87.5°	0.0	0.0	0.0	3.5	0.0	5.3	10.6	14.2	5.3	7.1	12.4
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°	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9	3284.9
2.5°	3329.1	3205.3	2954.1	2708.2	2508.3	2322.6	2189.9	2064.3	2000.6	1997.1	1993.6
5°	3429.9	3169.9	2667.5	2223.5	1866.2	1579.6	1393.9	1261.2	1194.0	1171.0	1167.5
7.5°	3571.4	3180.5	2416.3	1799.0	1378.0	1132.1	1026.0	983.5	969.4	953.4	949.9
10°	3750.1	3205.3	2191.7	1448.7	1086.1	962.3	919.8	902.1	891.5	880.9	877.4
12.5°	3950.0	3228.2	1968.8	1202.9	955.2	891.5	861.5	840.2	826.1	813.7	810.2
15°	4144.5	3242.4	1737.1	1031.3	888.0	836.7	804.9	781.9	762.4	748.2	746.5
17.5°	4337.4	3261.9	1519.5	928.7	833.2	781.9	750.0	721.7	705.8	689.9	688.1
20°	4551.4	3258.3	1314.3	856.1	778.3	727.0	693.4	666.9	651.0	633.3	631.5
22.5°	4749.5	3240.6	1133.9	794.2	721.7	672.2	635.0	608.5	592.6	578.4	576.7
25°	4977.7	3226.5	983.5	737.6	668.6	619.1	578.4	553.7	536.0	523.6	521.8
27.5°	5197.0	3205.3	873.8	686.3	617.3	569.6	530.7	502.4	486.4	477.6	477.6
30°	5412.8	3199.9	833.2	636.8	571.4	523.6	484.7	458.1	445.8	442.2	440.5
32.5°	5672.9	3214.1	850.8	619.1	528.9	481.1	444.0	424.5	412.2	412.2	412.2
35°	5950.6	3210.6	877.4	635.0	500.6	438.7	410.4	398.0	385.6	385.6	385.6
37.5°	6299.1	3215.9	898.6	661.6	490.0	403.3	387.4	371.5	364.4	364.4	364.4
40°	6819.1	3391.0	888.0	684.6	486.4	378.5	346.7	341.4	336.1	336.1	336.1
42.5°	7455.9	3771.3	902.1	686.3	484.7	360.9	318.4	329.0	316.6	314.9	313.1
45°	8152.9	4187.0	992.4	649.2	482.9	352.0	304.3	316.6	297.2	297.2	297.2
47.5°	8844.5	4599.2	1084.3	596.1	477.6	350.2	291.9	284.8	279.5	281.3	281.3
50°	9798.0	4935.2	1119.7	523.6	465.2	346.7	268.9	270.6	267.1	270.6	270.6
52.5°	10836.3	5006.0	1077.3	442.2	429.8	336.1	253.0	260.0	258.3	261.8	261.8
55°	11483.7	4929.9	889.8	367.9	375.0	293.6	237.0	251.2	251.2	251.2	251.2
57.5°	12152.4	4606.2	631.5	298.9	311.3	240.6	222.9	242.3	240.6	238.8	238.8
60°	12633.5	4082.6	415.7	245.9	247.6	198.1	207.0	228.2	226.4	217.6	217.6
62.5°	12992.6	3504.2	267.1	208.7	189.3	178.7	189.3	207.0	199.9	180.4	176.9
65°	12951.9	2702.9	205.2	178.7	155.7	155.7	164.5	180.4	159.2	127.4	123.8
67.5°	12196.6	1829.0	169.8	150.4	130.9	129.1	136.2	150.4	136.2	107.9	104.4
70°	10846.9	1195.8	136.2	116.7	104.4	95.5	109.7	129.1	115.0	86.7	83.1
72.5°	8803.8	728.8	102.6	84.9	76.1	61.9	86.7	106.1	92.0	63.7	60.1
75°	5695.9	371.5	70.8	54.8	40.7	37.1	63.7	79.6	63.7	38.9	33.6
77.5°	2179.3	155.7	38.9	24.8	21.2	17.7	35.4	47.8	26.5	8.8	7.1
80°	419.2	65.4	19.5	12.4	10.6	7.1	5.3	3.5	0.0	0.0	0.0
82.5°	72.5	21.2	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)