

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: P957359

Luminaire Tested: **GALN-SB9D-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957359
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-SB9D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA 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: 72790 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 658
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

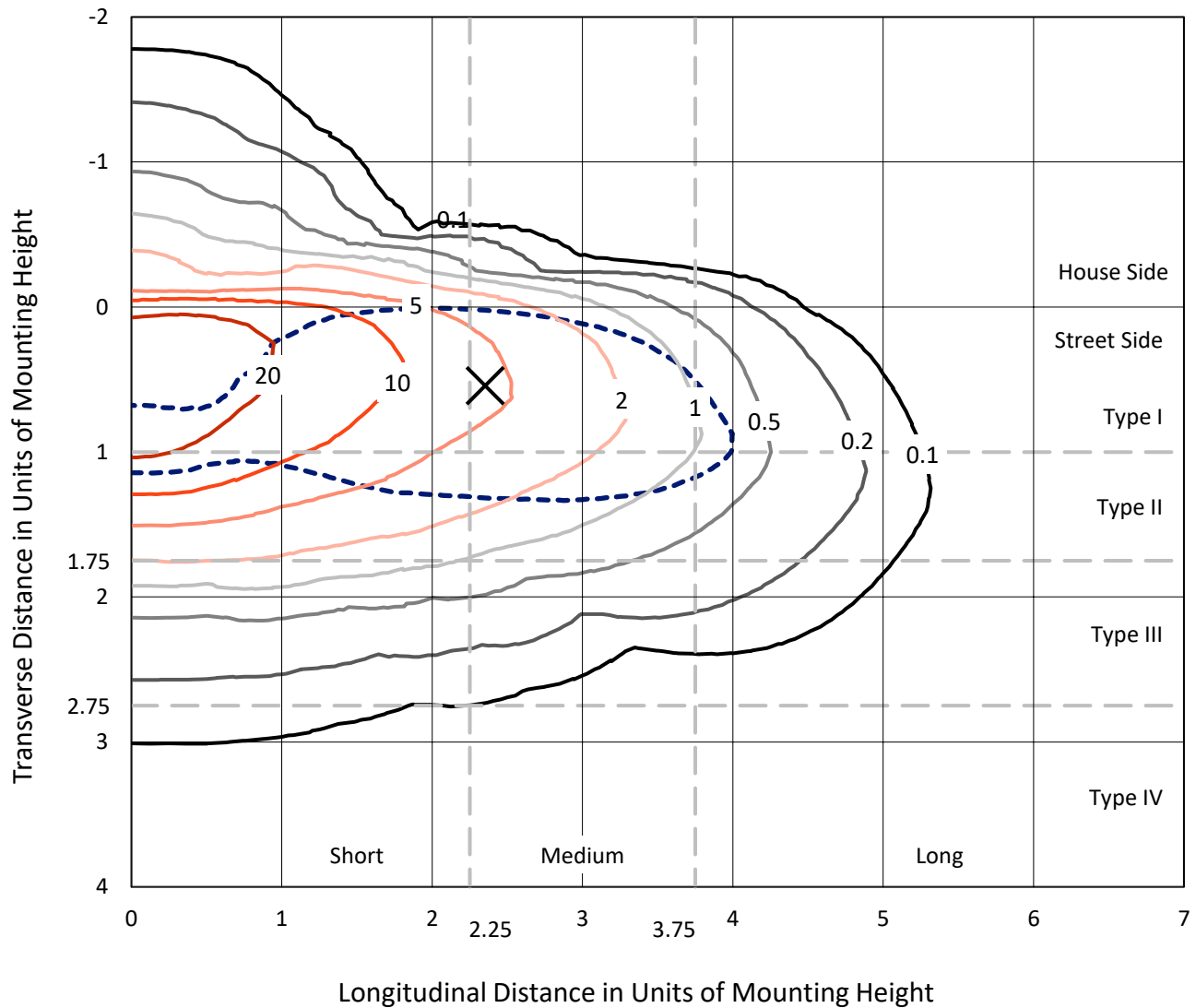


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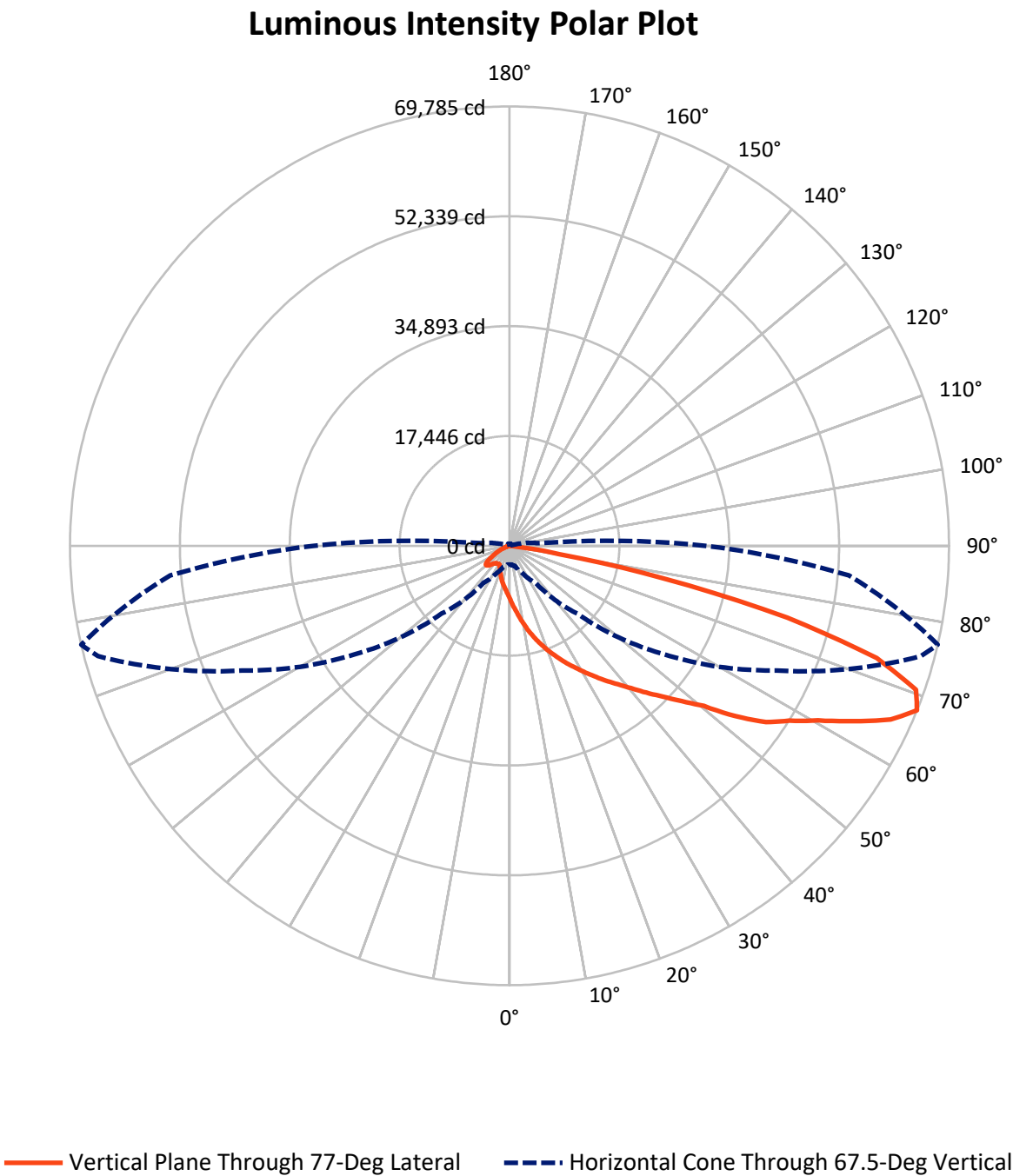
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.4 fc
Type II - Medium - N/A

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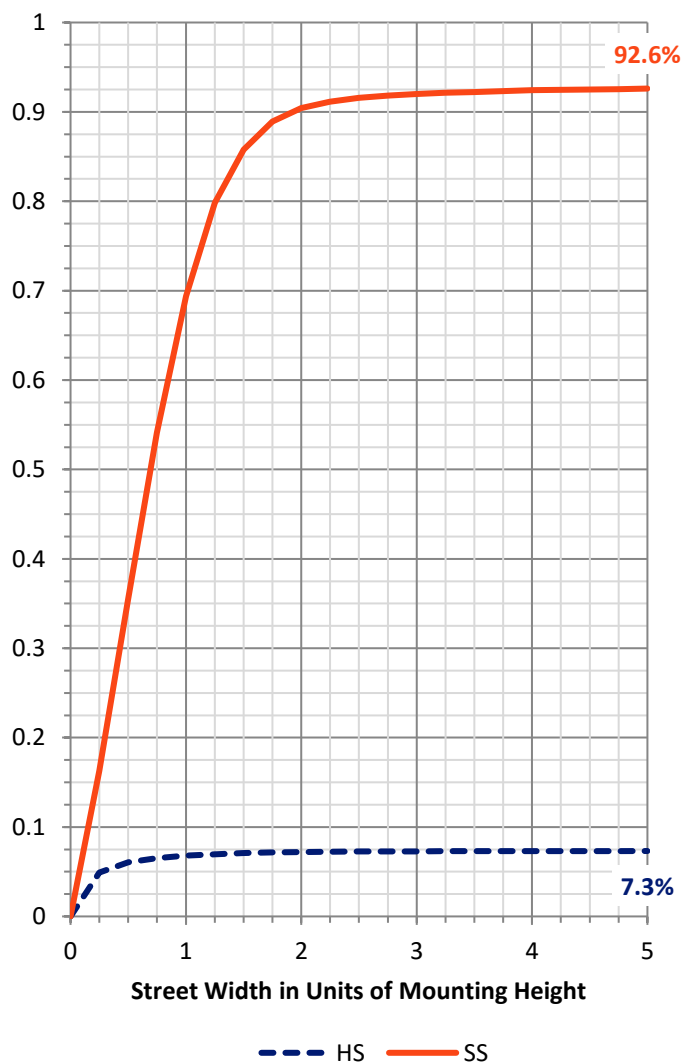
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5355.2	0.0	5355.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	67434.8	0.0	67434.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	72790.0	0.0	72790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.7	1.2
10°-20°	3000.1	4.1
20°-30°	5789.4	8.0
30°-40°	10050.8	13.8
40°-50°	14593.2	20.0
50°-60°	16758.4	23.0
60°-70°	14549.4	20.0
70°-80°	6852.9	9.4
80°-90°	338.9	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°	72790.0	100.0
0°-180°	72790.0	100.0

Coefficient of Utilization



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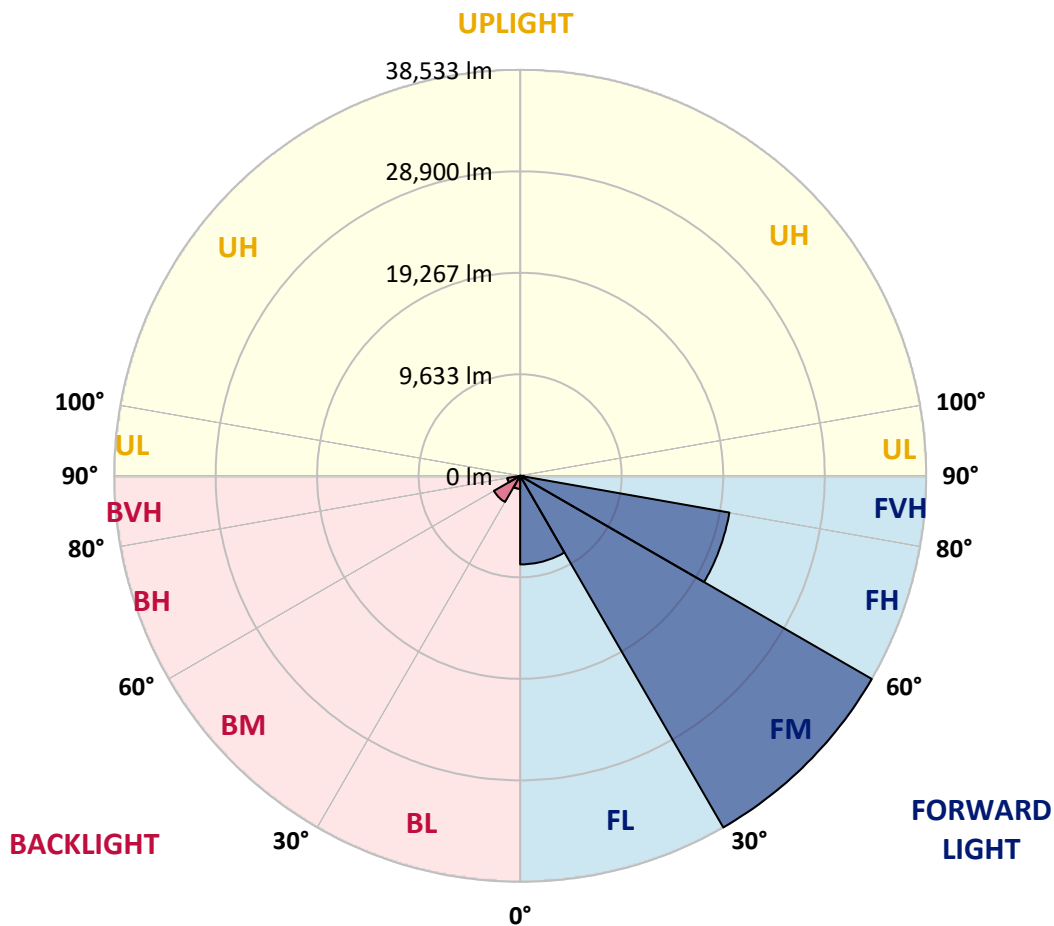
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8406.5	11.5			
FM	(30°-60°)	38533.0	52.9			
FH	(60°-80°)	20162.6	27.7			G5
FVH	(80°-90°)	332.7	0.5			G3/500
BL	(0°-30°)	1239.8	1.7	B3/2500		
BM	(30°-60°)	2869.4	3.9	B3/5000		
BH	(60°-80°)	1239.8	1.7	B3/2500		G3/2500
BVH	(80°-90°)	6.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8
2.5°	11621.1	11693.4	11589.4	11390.6	11092.2	10897.9	10423.3	9975.8	9478.6	9320.4	8823.2
5°	14165.9	14229.2	14111.6	13894.7	13496.9	13117.2	12493.5	11557.8	10586.0	10274.1	9392.7
7.5°	16050.7	16086.9	16041.7	15842.8	15463.1	15033.7	14337.6	13230.2	11788.3	11444.8	10093.3
10°	17406.8	17524.3	17510.7	17433.9	17180.8	16832.7	16091.4	14830.3	13135.3	12692.3	10884.3
12.5°	18306.3	18437.3	18514.2	18685.9	18672.4	18450.9	17800.0	16466.6	14477.8	13958.0	11774.8
15°	18568.4	18708.5	19002.3	19400.1	19752.7	19865.7	19409.2	18071.2	15955.8	15291.4	12687.8
17.5°	18419.3	18636.2	18988.8	19617.1	20390.0	20900.8	20851.1	19621.6	17298.3	16538.9	13582.8
20°	18749.2	18957.1	19232.9	19761.7	20661.2	21587.8	21958.5	21104.2	18631.7	17836.2	14523.0
22.5°	20575.3	20539.2	20566.3	20652.2	21190.1	22107.6	22871.5	22451.2	19951.6	19137.9	15517.4
25°	23468.2	23305.4	23029.7	22564.2	22428.6	22871.5	23667.0	23644.4	21343.7	20471.4	16534.4
27.5°	26785.9	26758.8	26112.4	24991.4	24358.6	24186.9	24566.5	24806.1	22722.4	21791.2	17555.9
30°	29963.5	30035.8	29163.4	27915.9	26754.3	26080.8	25737.2	25909.0	24123.6	23215.0	18609.1
32.5°	32729.8	32806.6	31857.4	30397.4	28960.0	28146.4	27423.2	26998.3	25651.4	24661.5	19766.2
35°	35066.6	35143.5	34054.2	32440.5	30908.2	30171.4	29353.3	28191.6	27188.2	26266.1	21054.5
37.5°	37154.9	37132.3	35672.3	34045.1	32539.9	31956.8	31527.4	29660.7	28770.2	27879.7	22482.8
40°	38388.9	38483.8	37236.3	35441.8	33981.8	33556.9	33529.8	31482.2	30596.3	29733.0	24046.7
42.5°	38750.5	38917.7	38013.7	36540.2	35215.8	34754.8	35464.4	33453.0	32720.7	31880.0	25814.1
45°	38099.6	38262.3	37851.0	36829.5	36056.5	35758.2	37127.8	35496.1	34989.8	34158.1	27807.4
47.5°	36201.2	36404.6	36504.0	36287.1	36278.0	36580.9	38619.4	37647.6	37683.8	36834.0	30117.2
50°	32526.4	32869.9	33783.0	34551.4	35740.1	37231.8	40070.4	39980.0	40721.2	39989.0	33127.5
52.5°	25845.7	26333.9	29479.9	31581.7	34253.0	37109.7	41665.9	43722.6	46050.4	44979.1	37371.9
55°	20769.7	20769.7	23328.0	27260.5	31351.2	36305.1	42362.0	46154.4	49680.0	49426.9	40359.6
57.5°	16932.2	17135.6	18767.3	22243.2	27152.0	34388.6	42791.4	47682.1	52604.5	52419.2	43279.6
60°	10450.4	10888.8	13971.5	17402.2	22374.3	30976.0	42520.2	49228.0	56152.7	56301.9	46796.2
62.5°	5885.1	6047.8	7421.9	12520.6	17397.7	26388.1	40445.5	50091.3	60690.9	61323.7	50421.3
65°	4063.5	4144.9	4673.7	7792.6	12059.5	21009.3	36391.0	49553.5	65238.1	66517.2	53494.9
67.5°	2951.6	2992.3	3322.2	4759.6	7155.3	15232.6	30035.8	46841.4	67647.3	69785.3	54082.6
70°	2269.1	2296.2	2535.8	3127.9	4226.3	9401.7	21813.8	41449.0	65902.5	68456.4	51072.2
72.5°	1844.2	1871.3	2056.6	2314.3	2802.4	5559.7	13221.2	33660.9	58200.3	60957.6	43478.5
75°	1554.9	1591.1	1758.3	1925.5	2196.8	3570.8	6201.5	23441.0	43767.8	45575.8	30234.7
77.5°	863.3	795.5	1428.3	1595.6	1853.2	2260.0	2901.9	13795.2	24512.3	25014.0	13415.5
80°	537.9	556.0	1134.5	1283.7	1423.8	1139.1	1328.9	5311.1	8497.7	8072.8	2599.0
82.5°	31.6	72.3	872.4	926.6	976.3	488.2	501.7	1803.5	2047.6	1880.3	461.0
85°	0.0	0.0	397.8	320.9	339.0	140.1	144.6	420.4	275.7	298.3	90.4
87.5°	0.0	0.0	0.0	9.0	0.0	13.6	27.1	36.2	13.6	18.1	31.6
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°	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8	8393.8
2.5°	8506.8	8190.4	7548.5	6920.2	6409.4	5934.8	5595.8	5274.9	5112.2	5103.2	5094.1
5°	8764.4	8100.0	6816.3	5681.7	4768.7	4036.4	3561.8	3222.8	3051.0	2992.3	2983.2
7.5°	9126.0	8127.1	6174.4	4596.9	3521.1	2892.8	2621.6	2513.2	2477.0	2436.3	2427.3
10°	9582.5	8190.4	5600.4	3701.9	2775.3	2458.9	2350.4	2305.2	2278.1	2251.0	2242.0
12.5°	10093.3	8249.1	5030.8	3073.6	2440.8	2278.1	2201.3	2147.0	2110.9	2079.2	2070.2
15°	10590.5	8285.3	4438.7	2635.2	2269.1	2138.0	2056.6	1997.9	1948.1	1912.0	1907.5
17.5°	11083.2	8335.0	3882.7	2373.0	2128.9	1997.9	1916.5	1844.2	1803.5	1762.8	1758.3
20°	11630.1	8326.0	3358.4	2187.7	1988.8	1857.7	1771.9	1704.1	1663.4	1618.2	1613.7
22.5°	12136.4	8280.8	2897.4	2029.5	1844.2	1717.6	1622.7	1554.9	1514.2	1478.1	1473.5
25°	12719.5	8244.6	2513.2	1884.9	1708.6	1582.0	1478.1	1414.8	1369.6	1337.9	1333.4
27.5°	13279.9	8190.4	2232.9	1753.8	1577.5	1455.5	1356.0	1283.7	1243.0	1220.4	1220.4
30°	13831.4	8176.8	2128.9	1627.2	1460.0	1337.9	1238.5	1170.7	1139.1	1130.0	1125.5
32.5°	14495.8	8213.0	2174.2	1582.0	1351.5	1229.5	1134.5	1084.8	1053.2	1053.2	1053.2
35°	15205.5	8203.9	2242.0	1622.7	1279.2	1121.0	1048.7	1017.0	985.4	985.4	985.4
37.5°	16095.9	8217.5	2296.2	1690.5	1252.1	1030.6	989.9	949.2	931.1	931.1	931.1
40°	17424.8	8665.0	2269.1	1749.3	1243.0	967.3	885.9	872.4	858.8	858.8	858.8
42.5°	19052.1	9636.8	2305.2	1753.8	1238.5	922.1	813.6	840.7	809.1	804.6	800.1
45°	20833.0	10699.0	2535.8	1658.9	1234.0	899.5	777.5	809.1	759.4	759.4	759.4
47.5°	22600.3	11752.2	2770.8	1523.3	1220.4	895.0	745.8	727.7	714.2	718.7	718.7
50°	25036.6	12611.0	2861.2	1337.9	1188.8	885.9	687.0	691.6	682.5	691.6	691.6
52.5°	27689.9	12791.8	2752.7	1130.0	1098.4	858.8	646.4	664.4	659.9	669.0	669.0
55°	29344.2	12597.4	2273.6	940.2	958.3	750.3	605.7	641.8	641.8	641.8	641.8
57.5°	31052.8	11770.2	1613.7	763.9	795.5	614.7	569.5	619.2	614.7	610.2	610.2
60°	32282.3	10432.3	1062.2	628.3	632.8	506.2	528.8	583.1	578.6	556.0	556.0
62.5°	33199.9	8954.2	682.5	533.4	483.6	456.5	483.6	528.8	510.8	461.0	452.0
65°	33095.9	6906.7	524.3	456.5	397.8	397.8	420.4	461.0	406.8	325.4	316.4
67.5°	31165.8	4673.7	433.9	384.2	334.5	330.0	348.0	384.2	348.0	275.7	266.7
70°	27717.0	3055.6	348.0	298.3	266.7	244.1	280.2	330.0	293.8	221.5	212.4
72.5°	22496.4	1862.3	262.2	217.0	194.4	158.2	221.5	271.2	235.0	162.7	153.7
75°	14554.6	949.2	180.8	140.1	104.0	94.9	162.7	203.4	162.7	99.4	85.9
77.5°	5568.7	397.8	99.4	63.3	54.2	45.2	90.4	122.0	67.8	22.6	18.1
80°	1071.3	167.2	49.7	31.6	27.1	18.1	13.6	9.0	0.0	0.0	0.0
82.5°	185.3	54.2	18.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.3	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	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)