

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: P955206

Luminaire Tested: **GALN-SB8B-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36010 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 292.8
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

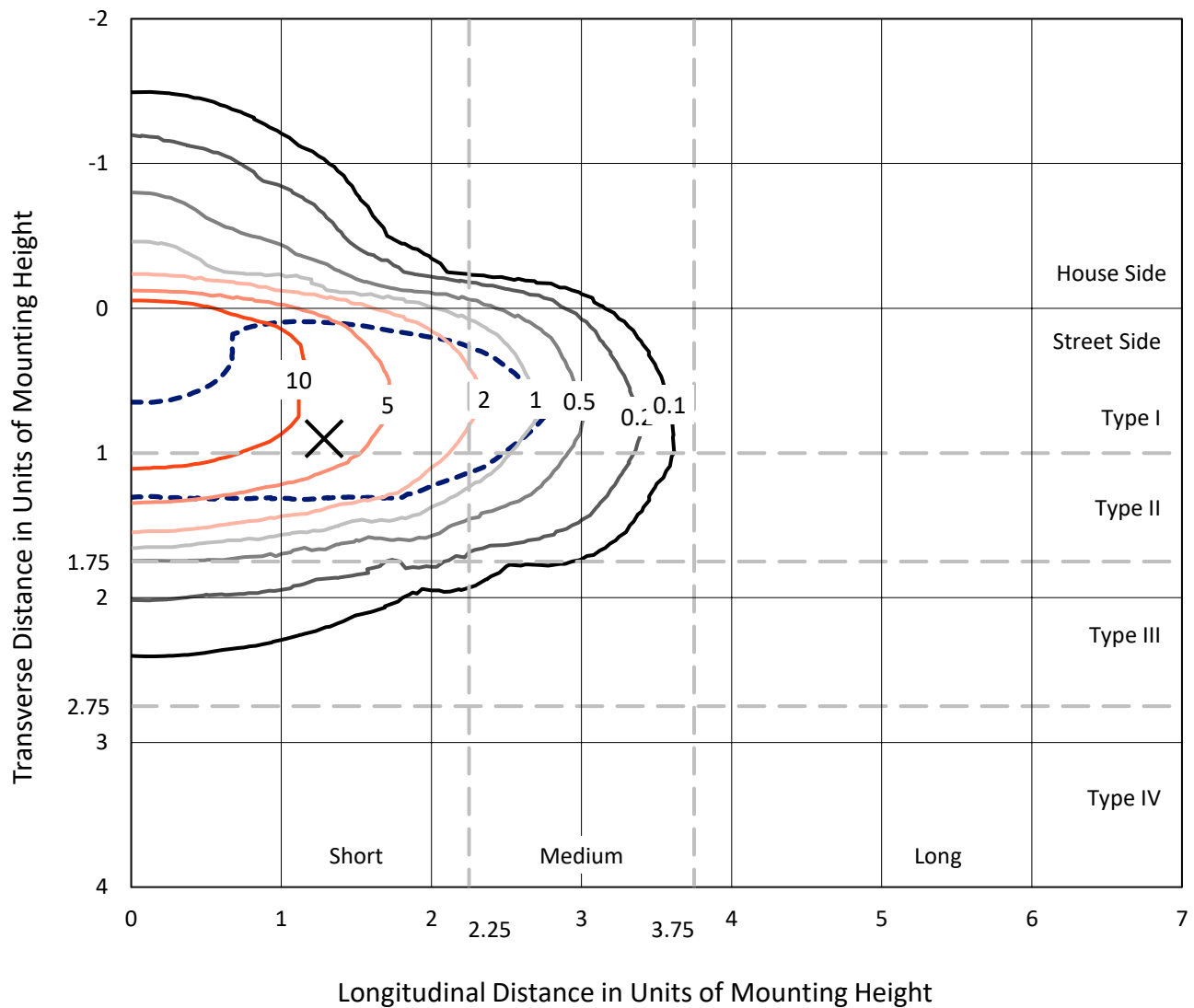


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Iso-Footcandle Lines of Horizontal Illumination

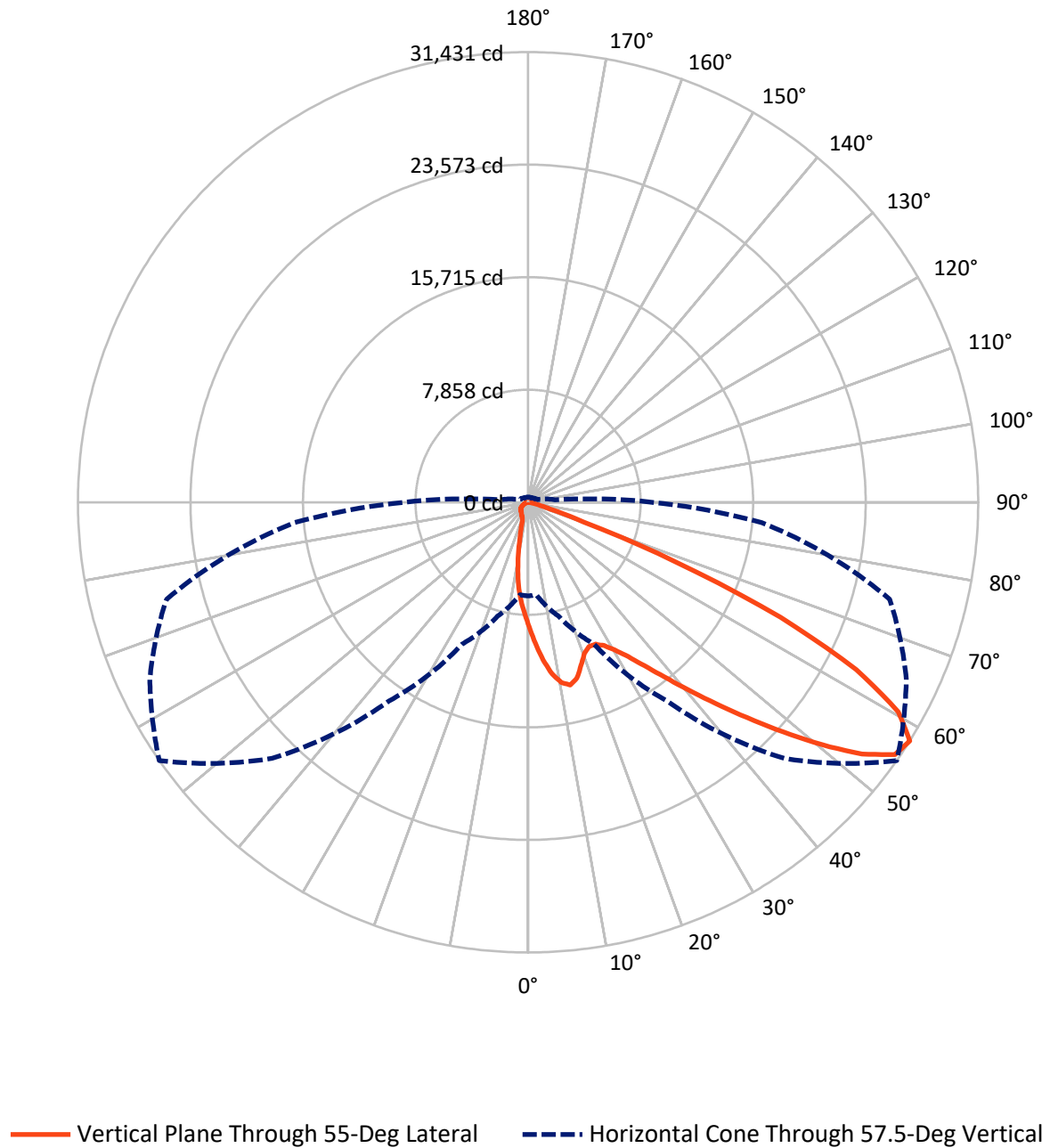
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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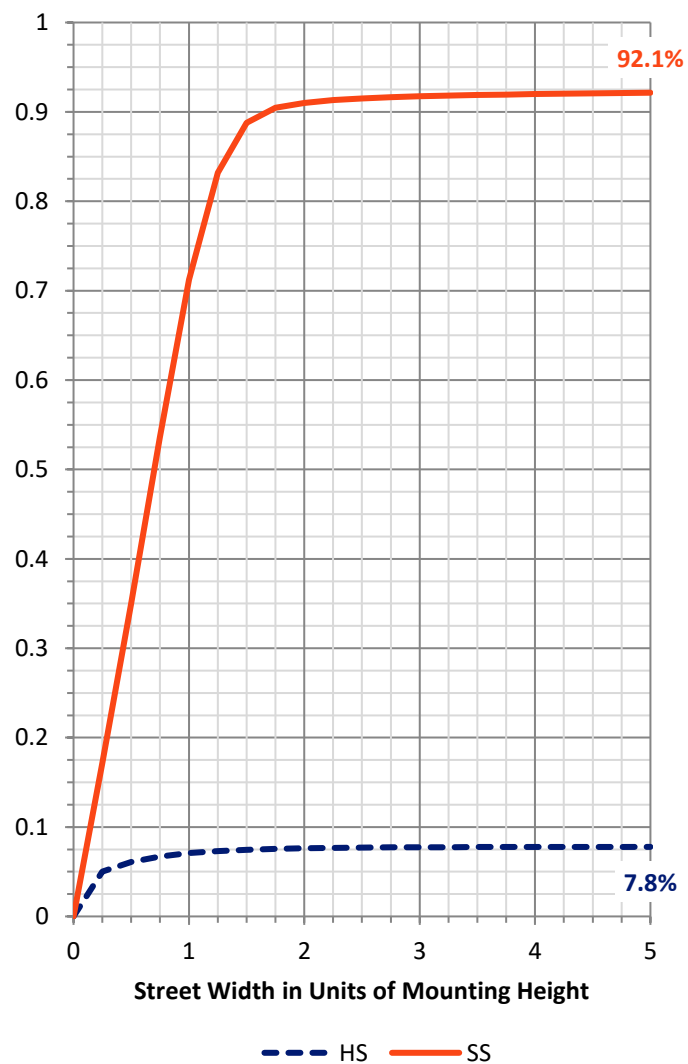
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2812.2	0.0	2812.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	33197.8	0.0	33197.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	36010.0	0.0	36010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.4	2.2
10°-20°	1950.3	5.4
20°-30°	3120.4	8.7
30°-40°	5281.5	14.7
40°-50°	8671.1	24.1
50°-60°	9530.1	26.5
60°-70°	5466.5	15.2
70°-80°	1117.0	3.1
80°-90°	65.9	0.2
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°	36010.0	100.0
0°-180°	36010.0	100.0

Coefficient of Utilization



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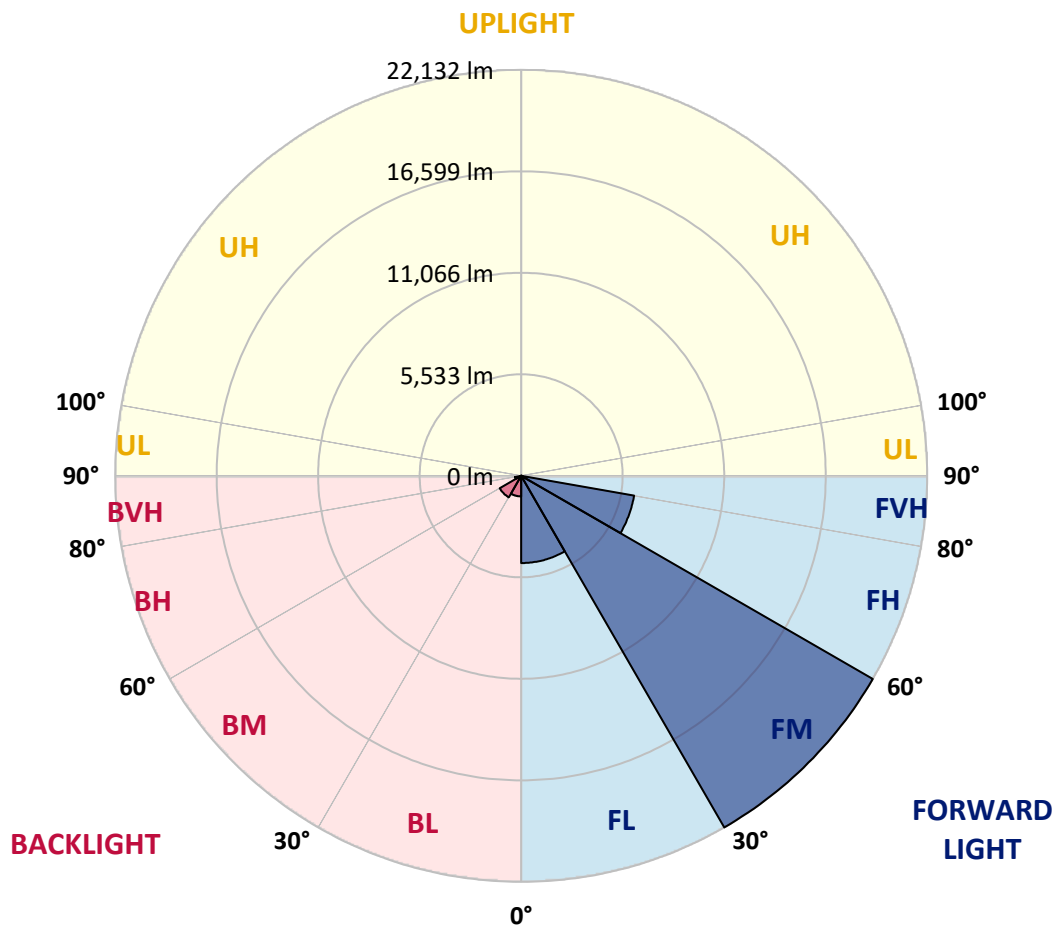
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4755.3	13.2			
FM	(30°-60°)	22132.0	61.5			
FH	(60°-80°)	6249.0	17.4			G3/7500
FVH	(80°-90°)	61.4	0.2			G1/100
BL	(0°-30°)	1122.7	3.1	B3/2500		
BM	(30°-60°)	1350.6	3.8	B2/2500		
BH	(60°-80°)	334.5	0.9	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5
2.5°	10767.0	10631.5	10611.5	10584.9	10327.3	10134.1	9854.4	9547.9	9203.8	8852.9	8697.5
5°	12439.0	12332.4	12312.4	12188.1	11895.0	11566.3	11068.9	10440.6	9798.9	9043.9	8719.7
7.5°	12763.2	12743.2	12834.2	12829.8	12789.8	12530.0	12110.3	11362.0	10398.4	9279.3	8777.4
10°	11317.6	11368.7	11639.6	11877.2	12518.9	12891.9	12800.9	12183.6	11015.7	9547.9	8841.8
12.5°	10000.9	9941.0	10134.1	10402.8	11148.9	12259.1	13087.3	12869.7	11721.8	9852.1	8937.3
15°	9174.9	9150.5	9259.3	9383.6	9952.1	11071.2	12754.3	13427.1	12401.2	10211.9	9081.6
17.5°	8910.7	8890.7	8924.0	8955.1	9323.7	10189.6	11961.6	13769.0	13051.8	10622.6	9241.5
20°	9126.1	9099.4	9095.0	9070.5	9223.8	9814.4	11244.4	13793.4	13635.8	10995.7	9379.2
22.5°	9754.4	9723.4	9614.6	9516.9	9530.2	9865.5	10924.6	13549.2	14075.4	11344.3	9465.8
25°	10893.5	10842.5	10616.0	10287.3	10078.6	10220.7	10973.5	13227.2	14495.1	11617.4	9423.6
27.5°	12319.1	12252.4	11961.6	11473.1	10995.7	10822.5	11326.5	13005.2	14843.7	11826.1	9332.6
30°	13715.7	13629.1	13342.7	12963.0	12265.8	11719.5	11963.8	13102.9	15258.9	12043.7	9212.7
32.5°	15223.4	15141.3	14761.6	14290.8	13713.5	12978.5	12836.4	13580.3	15767.4	12347.9	9128.3
35°	17130.8	17002.0	16462.4	15820.7	15207.9	14464.0	14017.7	14404.1	16444.7	12812.0	9174.9
37.5°	19302.4	19129.2	18547.4	17661.5	16862.1	16029.4	15456.6	15536.5	17437.2	13433.7	9319.2
40°	21349.6	21192.0	20654.6	19819.7	18816.1	17805.8	17195.2	17017.5	18807.2	14190.9	9572.4
42.5°	22577.5	22435.4	22209.0	21855.9	21009.9	19979.6	19209.1	18825.0	20428.1	15096.8	9881.0
45°	22646.4	22522.0	22826.2	23237.0	23070.5	22384.4	21445.1	20741.2	22055.7	15947.3	10200.8
47.5°	21545.0	21460.7	22384.4	23818.8	24533.8	24822.4	23956.4	22497.6	23399.1	16557.9	10331.8
50°	18543.0	18511.9	20412.6	23046.1	25091.1	26958.5	26605.4	24131.9	24440.5	16873.2	10207.4
52.5°	16078.3	15965.0	17073.0	20572.5	24280.6	28082.0	29194.5	25735.0	25168.8	16933.2	9916.5
55°	12194.7	12094.8	13484.8	16433.6	21667.2	27682.4	31088.5	27389.3	25690.6	16779.9	9394.7
57.5°	6541.4	6479.3	8235.7	10937.9	16937.6	25284.3	31430.5	29139.0	26130.3	16373.6	8664.2
60°	2546.9	2535.8	3193.0	5306.9	10294.0	20570.3	29705.2	30189.3	26405.6	15874.0	8053.6
62.5°	1541.0	1574.3	1680.9	2382.5	4547.5	12778.7	25728.4	28994.6	26589.9	15416.6	7549.5
65°	1274.5	1276.8	1290.1	1636.5	2178.3	5346.8	19369.0	25064.5	26134.7	14601.7	6834.5
67.5°	1092.5	1112.4	1163.5	1299.0	1536.6	2344.8	11151.1	19415.6	23365.8	12705.4	5719.9
70°	861.5	888.2	952.6	1068.0	1185.7	1467.7	4121.2	12918.6	17850.2	9576.8	4325.4
72.5°	726.1	723.9	757.2	868.2	941.5	1032.5	1585.4	7238.7	10373.9	4571.9	2140.5
75°	561.8	584.0	626.2	726.1	770.5	748.3	859.3	2644.6	3717.0	1385.6	728.3
77.5°	439.6	457.4	495.2	592.9	637.3	530.7	495.2	945.9	1194.6	497.4	328.6
80°	197.6	213.2	337.5	437.4	519.6	366.4	268.7	484.1	530.7	226.5	166.5
82.5°	35.5	60.0	197.6	230.9	266.5	237.6	139.9	250.9	259.8	91.0	57.7
85°	2.2	4.4	68.8	84.4	106.6	77.7	42.2	99.9	86.6	31.1	22.2
87.5°	0.0	0.0	0.0	2.2	2.2	11.1	13.3	17.8	13.3	11.1	8.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5	8677.5
2.5°	8537.6	8222.3	7915.9	7665.0	7518.4	7269.8	7105.4	7078.8	7010.0	7069.9
5°	8373.3	7809.3	7238.7	6728.0	6308.3	5766.5	5362.4	5191.4	5042.6	5093.7
7.5°	8295.6	7405.2	6517.0	5644.4	4747.3	3881.3	3237.4	2968.7	2764.5	2793.3
10°	8191.2	6985.5	5593.3	4261.0	3059.8	2204.9	1760.8	1596.5	1505.5	1507.7
12.5°	8111.3	6483.7	4520.8	2888.8	1863.0	1407.8	1270.1	1230.1	1203.5	1205.7
15°	8071.3	5893.1	3461.7	1925.1	1332.3	1192.4	1159.1	1141.3	1123.5	1121.3
17.5°	8004.7	5235.8	2533.5	1405.5	1165.7	1116.9	1088.0	1068.0	1045.8	1041.4
20°	7904.8	4489.8	1851.9	1187.9	1092.5	1054.7	1014.7	988.1	961.5	957.0
22.5°	7720.5	3701.5	1423.3	1099.1	1039.2	997.0	948.1	917.0	890.4	886.0
25°	7378.6	2962.1	1199.0	1043.6	992.5	941.5	888.2	846.0	821.6	817.1
27.5°	6945.6	2327.0	1088.0	992.5	932.6	886.0	826.0	786.0	763.8	759.4
30°	6434.9	1791.9	1023.6	934.8	861.5	821.6	768.3	735.0	721.6	721.6
32.5°	5884.2	1432.2	997.0	877.1	799.4	755.0	712.8	699.4	695.0	692.8
35°	5366.8	1243.5	983.7	830.4	743.9	701.7	683.9	686.1	695.0	695.0
37.5°	4907.2	1183.5	977.0	797.1	695.0	657.3	668.4	688.3	679.5	679.5
40°	4492.0	1190.2	972.6	772.7	655.0	632.8	655.0	639.5	617.3	615.1
42.5°	4174.4	1245.7	963.7	752.7	630.6	615.1	606.2	581.8	579.5	584.0
45°	3943.5	1294.5	961.5	743.9	604.0	575.1	564.0	539.6	584.0	595.1
47.5°	3670.4	1294.5	961.5	712.8	559.6	548.5	530.7	504.0	548.5	559.6
50°	3317.4	1212.4	923.7	677.2	524.0	517.4	486.3	453.0	444.1	450.8
52.5°	2871.0	1063.6	828.2	628.4	488.5	475.2	437.4	413.0	406.3	406.3
55°	2362.6	890.4	699.4	557.3	450.8	426.3	399.7	388.6	381.9	377.5
57.5°	1920.7	730.5	561.8	495.2	415.2	384.1	375.3	361.9	350.8	344.2
60°	1576.5	575.1	464.1	439.6	379.7	350.8	348.6	330.8	302.0	297.5
62.5°	1216.8	421.9	390.8	381.9	344.2	319.7	315.3	279.8	235.4	226.5
65°	859.3	328.6	315.3	335.3	306.4	284.2	273.1	219.8	173.2	166.5
67.5°	604.0	275.3	248.7	293.1	266.5	237.6	230.9	186.5	144.3	139.9
70°	430.8	224.3	204.3	250.9	213.2	208.7	195.4	155.4	117.7	113.2
72.5°	304.2	171.0	157.7	217.6	146.5	179.9	159.9	119.9	88.8	84.4
75°	224.3	122.1	111.0	126.6	106.6	135.4	113.2	79.9	55.5	53.3
77.5°	164.3	77.7	66.6	62.2	62.2	84.4	62.2	33.3	24.4	22.2
80°	115.5	35.5	31.1	26.6	24.4	20.0	8.9	4.4	2.2	2.2
82.5°	68.8	15.5	15.5	11.1	6.7	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.7	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	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

(END OF REPORT)