

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: P955217

Luminaire Tested: **GALN-SB8B-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955217
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-SB8B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA 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: 35759 lumens
Efficiency: N/A
Efficacy: 122.1 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): 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



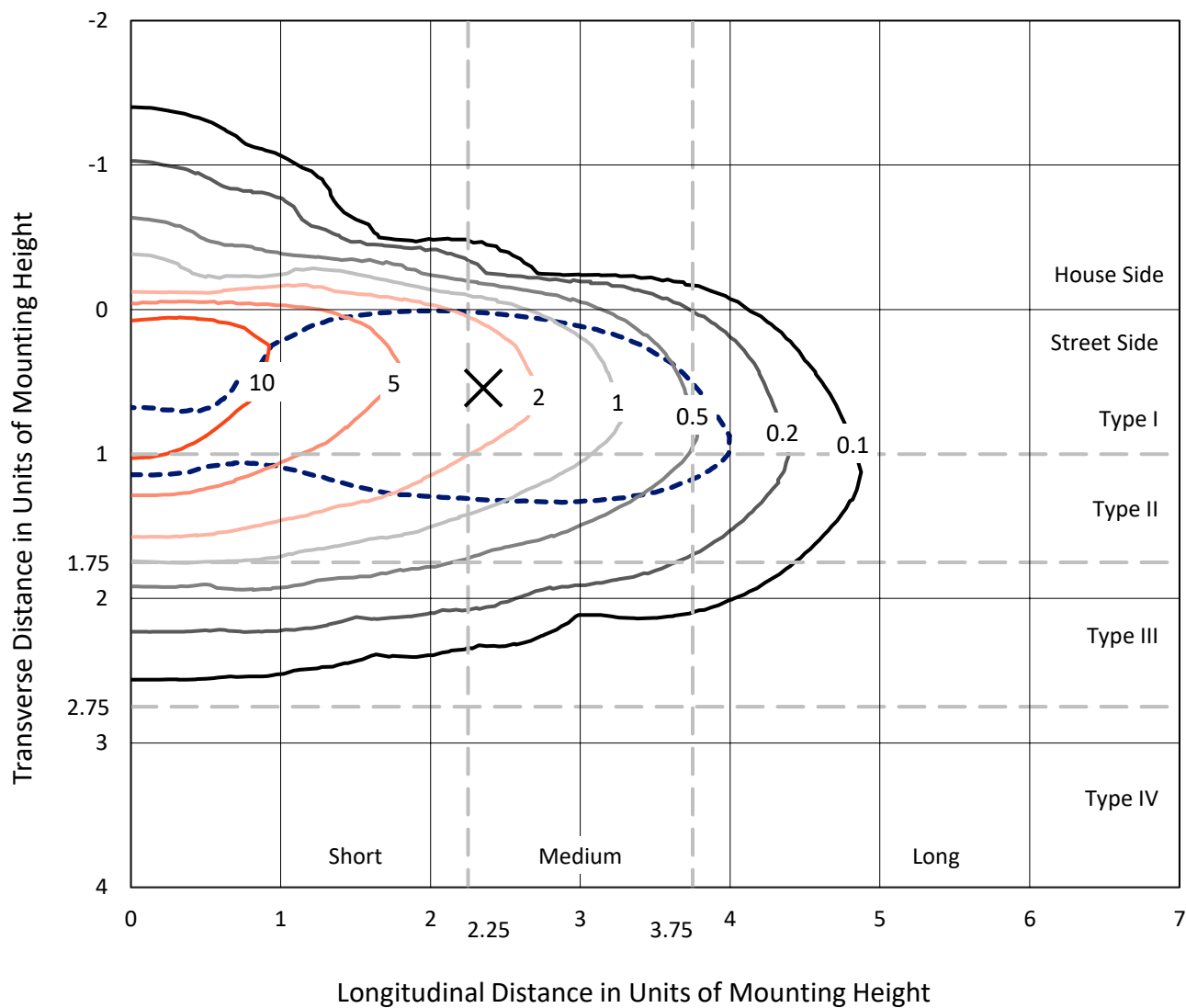
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Iso-Footcandle Lines of Horizontal Illumination

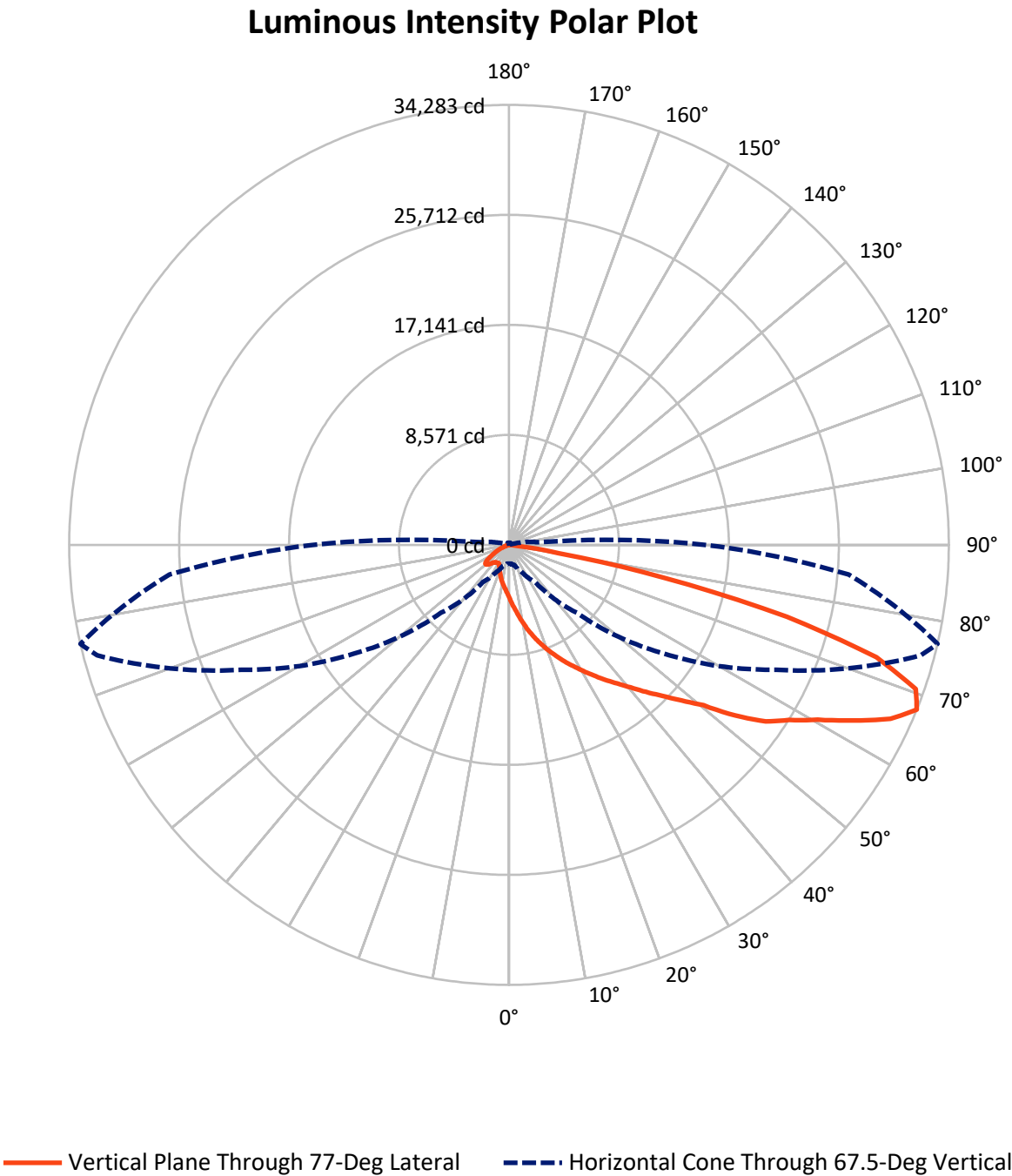
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
Type II - Medium - N/A

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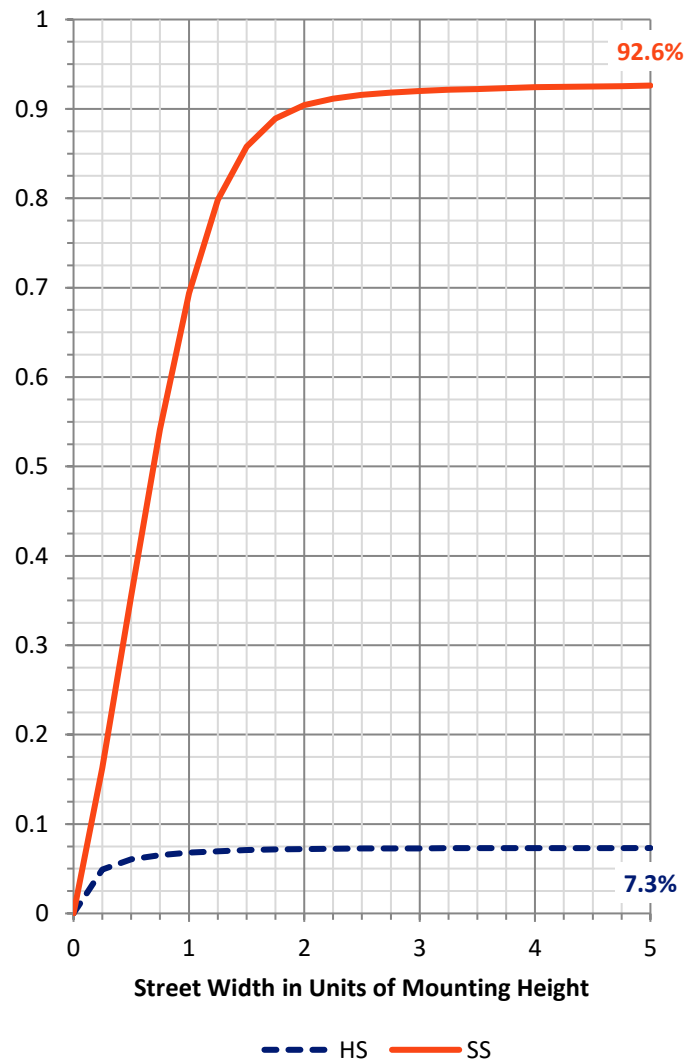
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2630.8	0.0	2630.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	33128.2	0.0	33128.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	35759.0	0.0	35759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.9	1.2
10°-20°	1473.8	4.1
20°-30°	2844.1	8.0
30°-40°	4937.6	13.8
40°-50°	7169.1	20.0
50°-60°	8232.8	23.0
60°-70°	7147.6	20.0
70°-80°	3366.6	9.4
80°-90°	166.5	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°	35759.0	100.0
0°-180°	35759.0	100.0

Coefficient of Utilization



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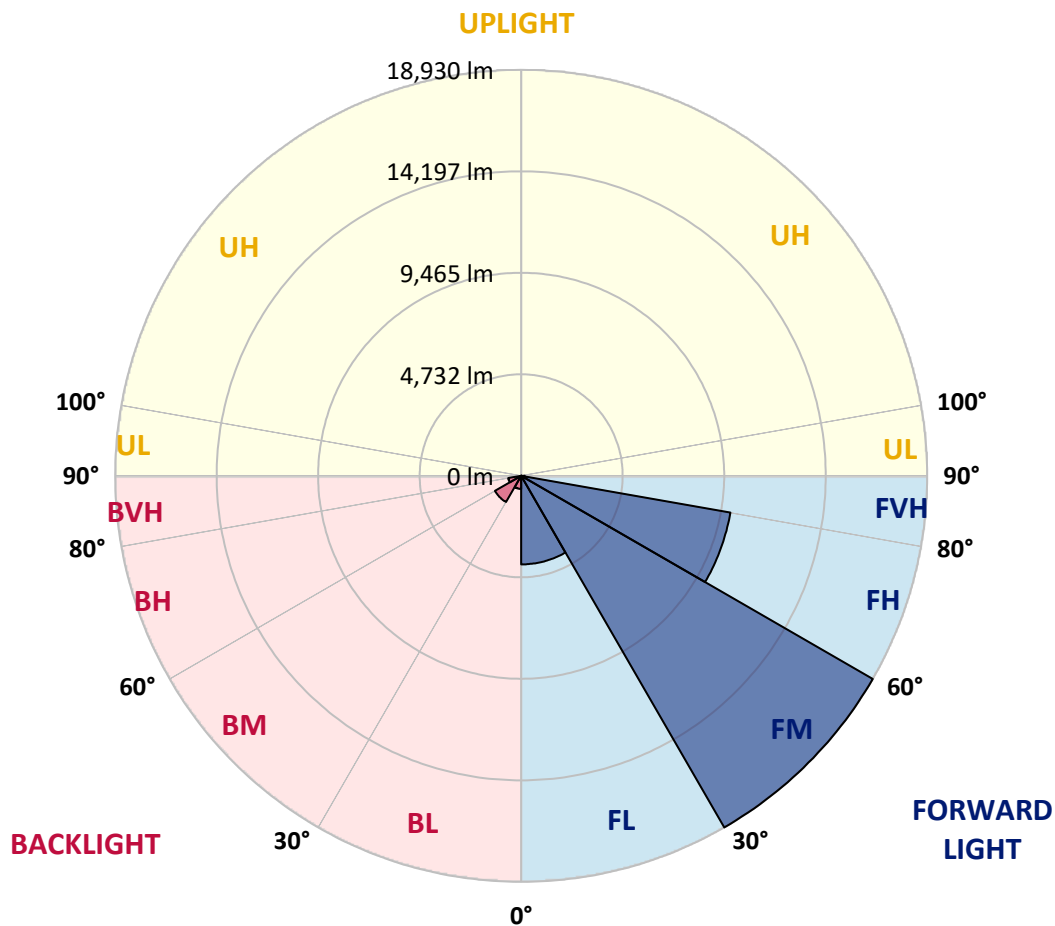
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4129.8	11.5			
FM	(30°-60°)	18929.9	52.9			
FH	(60°-80°)	9905.1	27.7			G4/12000
FVH	(80°-90°)	163.4	0.5			G2/225
BL	(0°-30°)	609.1	1.7	B2/1000		
BM	(30°-60°)	1409.6	3.9	B2/2500		
BH	(60°-80°)	609.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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°	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5
2.5°	5709.0	5744.5	5693.5	5595.8	5449.2	5353.7	5120.6	4900.7	4656.5	4578.7	4334.5
5°	6959.2	6990.3	6932.5	6825.9	6630.5	6444.0	6137.6	5677.9	5200.5	5047.3	4614.3
7.5°	7885.1	7902.9	7880.7	7783.0	7596.5	7385.5	7043.5	6499.5	5791.2	5622.4	4958.5
10°	8551.3	8609.0	8602.4	8564.6	8440.3	8269.3	7905.1	7285.6	6452.9	6235.3	5347.1
12.5°	8993.2	9057.6	9095.3	9179.7	9173.0	9064.2	8744.5	8089.4	7112.4	6857.0	5784.5
15°	9122.0	9190.8	9335.1	9530.5	9703.7	9759.3	9535.0	8877.7	7838.5	7512.1	6233.0
17.5°	9048.7	9155.3	9328.5	9637.1	10016.8	10267.8	10243.3	9639.4	8498.0	8124.9	6672.7
20°	9210.8	9312.9	9448.4	9708.2	10150.1	10605.3	10787.4	10367.7	9153.1	8762.2	7134.6
22.5°	10107.9	10090.1	10103.4	10145.6	10409.9	10860.6	11235.9	11029.4	9801.5	9401.8	7623.1
25°	11529.0	11449.1	11313.6	11084.9	11018.3	11235.9	11626.7	11615.6	10485.4	10056.8	8122.7
27.5°	13158.9	13145.6	12828.0	12277.4	11966.5	11882.1	12068.6	12186.3	11162.6	10705.2	8624.6
30°	14719.9	14755.5	14326.9	13714.0	13143.4	12812.5	12643.7	12728.1	11851.0	11404.7	9142.0
32.5°	16078.9	16116.7	15650.3	14933.1	14227.0	13827.3	13472.0	13263.3	12601.6	12115.3	9710.4
35°	17226.9	17264.7	16729.5	15936.8	15184.0	14822.1	14420.2	13849.5	13356.5	12903.5	10343.3
37.5°	18252.8	18241.7	17524.5	16725.1	15985.7	15699.2	15488.2	14571.2	14133.7	13696.3	11045.0
40°	18859.0	18905.7	18292.8	17411.2	16694.0	16485.3	16471.9	15466.0	15030.8	14606.7	11813.3
42.5°	19036.7	19118.8	18674.7	17950.8	17300.2	17073.7	17422.3	16434.2	16074.5	15661.5	12681.5
45°	18716.9	18796.9	18594.8	18092.9	17713.2	17566.7	18239.5	17437.9	17189.2	16780.6	13660.7
47.5°	17784.3	17884.2	17933.1	17826.5	17822.0	17970.8	18972.3	18494.9	18512.6	18095.2	14795.4
50°	15979.0	16147.7	16596.3	16973.8	17557.8	18290.6	19685.1	19640.7	20004.8	19645.1	16274.3
52.5°	12697.0	12936.9	14482.3	15514.9	16827.2	18230.6	20468.9	21479.3	22622.8	22096.6	18359.4
55°	10203.4	10203.4	11460.2	13392.1	15401.6	17835.4	20810.9	22673.9	24405.9	24281.6	19827.2
57.5°	8318.1	8418.1	9219.7	10927.3	13338.8	16893.9	21021.8	23424.5	25842.6	25751.6	21261.6
60°	5133.9	5349.3	6863.7	8549.1	10991.7	15217.3	20888.6	24183.9	27585.7	27659.0	22989.2
62.5°	2891.1	2971.1	3646.1	6150.9	8546.8	12963.5	19869.4	24608.0	29815.2	30126.0	24770.1
65°	1996.3	2036.2	2296.0	3828.2	5924.4	10321.1	17877.5	24343.8	32049.0	32677.4	26280.1
67.5°	1450.0	1470.0	1632.1	2338.2	3515.1	7483.2	14755.5	23011.4	33232.6	34282.9	26568.7
70°	1114.7	1128.0	1245.7	1536.6	2076.2	4618.7	10716.3	20362.3	32375.4	33630.0	25089.9
72.5°	906.0	919.3	1010.3	1136.9	1376.7	2731.3	6495.1	16536.3	28591.6	29946.2	21359.4
75°	763.9	781.6	863.8	945.9	1079.2	1754.2	3046.6	11515.7	21501.5	22389.7	14853.2
77.5°	424.1	390.8	701.7	783.8	910.4	1110.3	1425.6	6777.1	12042.0	12288.5	6590.6
80°	264.2	273.1	557.4	630.6	699.5	559.6	652.8	2609.1	4174.6	3965.9	1276.8
82.5°	15.5	35.5	428.6	455.2	479.6	239.8	246.5	886.0	1005.9	923.7	226.5
85°	0.0	0.0	195.4	157.7	166.5	68.8	71.1	206.5	135.5	146.6	44.4
87.5°	0.0	0.0	0.0	4.4	0.0	6.7	13.3	17.8	6.7	8.9	15.5
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°	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5
2.5°	4179.1	4023.6	3708.3	3399.6	3148.7	2915.6	2749.0	2591.4	2511.4	2507.0	2502.5
5°	4305.6	3979.2	3348.6	2791.2	2342.7	1982.9	1749.8	1583.2	1498.9	1470.0	1465.6
7.5°	4483.3	3992.5	3033.3	2258.3	1729.8	1421.1	1287.9	1234.6	1216.9	1196.9	1192.4
10°	4707.5	4023.6	2751.2	1818.6	1363.4	1208.0	1154.7	1132.5	1119.2	1105.8	1101.4
12.5°	4958.5	4052.5	2471.5	1510.0	1199.1	1119.2	1081.4	1054.8	1037.0	1021.4	1017.0
15°	5202.7	4070.2	2180.6	1294.6	1114.7	1050.3	1010.3	981.5	957.1	939.3	937.1
17.5°	5444.8	4094.7	1907.4	1165.8	1045.9	981.5	941.5	906.0	886.0	866.0	863.8
20°	5713.4	4090.2	1649.9	1074.7	977.0	912.6	870.5	837.1	817.2	795.0	792.7
22.5°	5962.1	4068.0	1423.4	997.0	906.0	843.8	797.2	763.9	743.9	726.1	723.9
25°	6248.6	4050.3	1234.6	926.0	839.4	777.2	726.1	695.0	672.8	657.3	655.1
27.5°	6523.9	4023.6	1096.9	861.6	775.0	715.0	666.2	630.6	610.6	599.5	599.5
30°	6794.8	4017.0	1045.9	799.4	717.2	657.3	608.4	575.1	559.6	555.1	552.9
32.5°	7121.3	4034.7	1068.1	777.2	663.9	604.0	557.4	532.9	517.4	517.4	517.4
35°	7469.9	4030.3	1101.4	797.2	628.4	550.7	515.2	499.6	484.1	484.1	484.1
37.5°	7907.3	4036.9	1128.0	830.5	615.1	506.3	486.3	466.3	457.4	457.4	457.4
40°	8560.2	4256.8	1114.7	859.3	610.6	475.2	435.2	428.6	421.9	421.9	421.9
42.5°	9359.6	4734.2	1132.5	861.6	608.4	453.0	399.7	413.0	397.5	395.3	393.0
45°	10234.5	5256.0	1245.7	814.9	606.2	441.9	381.9	397.5	373.1	373.1	373.1
47.5°	11102.7	5773.4	1361.2	748.3	599.5	439.7	366.4	357.5	350.8	353.1	353.1
50°	12299.6	6195.3	1405.6	657.3	584.0	435.2	337.5	339.7	335.3	339.7	339.7
52.5°	13603.0	6284.1	1352.3	555.1	539.6	421.9	317.5	326.4	324.2	328.6	328.6
55°	14415.7	6188.6	1116.9	461.9	470.8	368.6	297.6	315.3	315.3	315.3	315.3
57.5°	15255.1	5782.3	792.7	375.3	390.8	302.0	279.8	304.2	302.0	299.8	299.8
60°	15859.1	5125.0	521.8	308.7	310.9	248.7	259.8	286.4	284.2	273.1	273.1
62.5°	16309.8	4398.9	335.3	262.0	237.6	224.3	237.6	259.8	250.9	226.5	222.1
65°	16258.8	3393.0	257.6	224.3	195.4	195.4	206.5	226.5	199.8	159.9	155.4
67.5°	15310.6	2296.0	213.2	188.7	164.3	162.1	171.0	188.7	171.0	135.5	131.0
70°	13616.3	1501.1	171.0	146.6	131.0	119.9	137.7	162.1	144.3	108.8	104.4
72.5°	11051.6	914.9	128.8	106.6	95.5	77.7	108.8	133.2	115.5	79.9	75.5
75°	7150.1	466.3	88.8	68.8	51.1	46.6	79.9	99.9	79.9	48.9	42.2
77.5°	2735.7	195.4	48.9	31.1	26.6	22.2	44.4	60.0	33.3	11.1	8.9
80°	526.3	82.2	24.4	15.5	13.3	8.9	6.7	4.4	0.0	0.0	0.0
82.5°	91.0	26.6	8.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	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)