

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: P951636

Luminaire Tested: **GALN-SB5D-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951636
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-SB5D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA 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: 40652 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 364.9
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



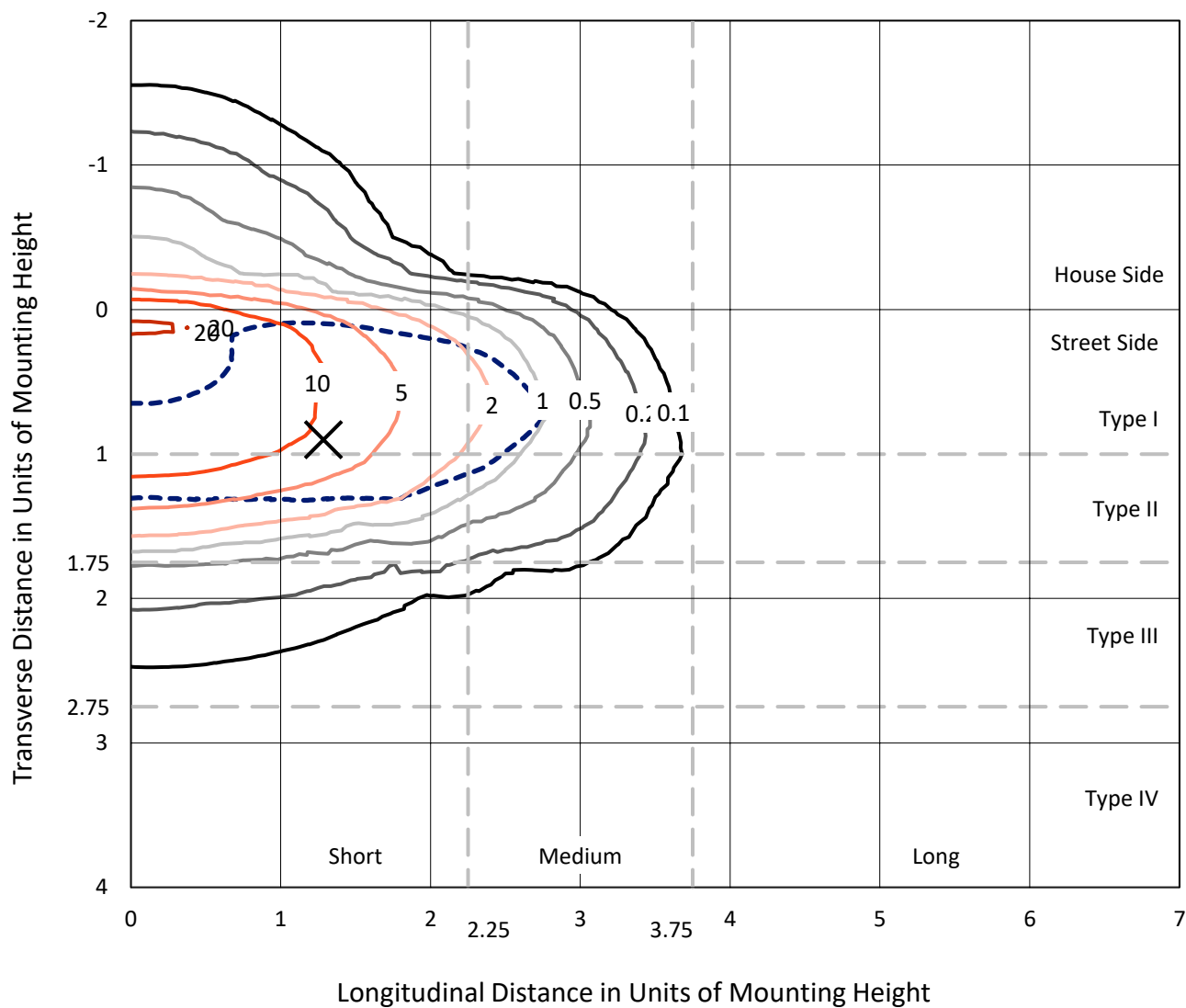
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

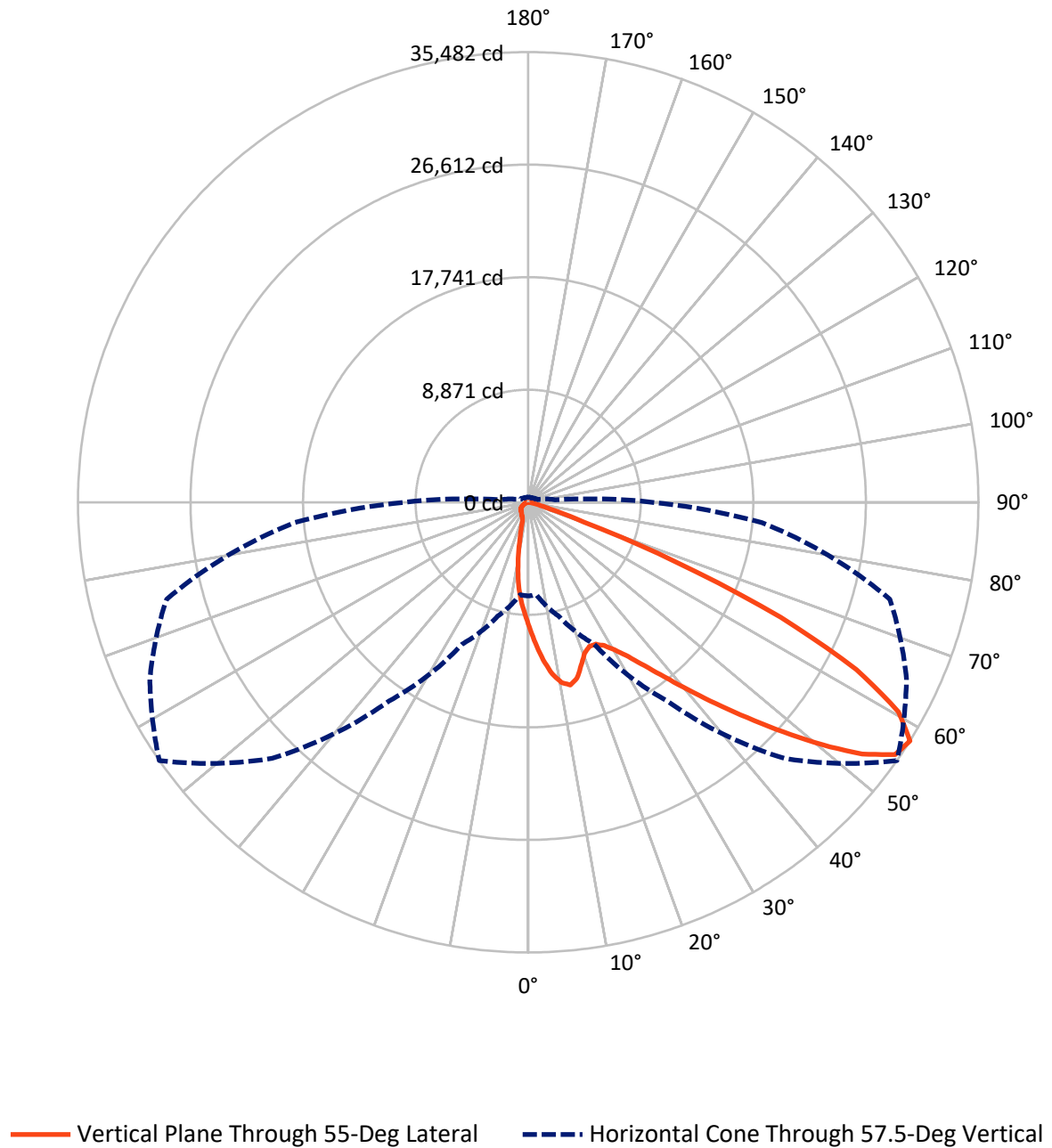


Based on 25 foot mounting height. Maximum calculated value = 22.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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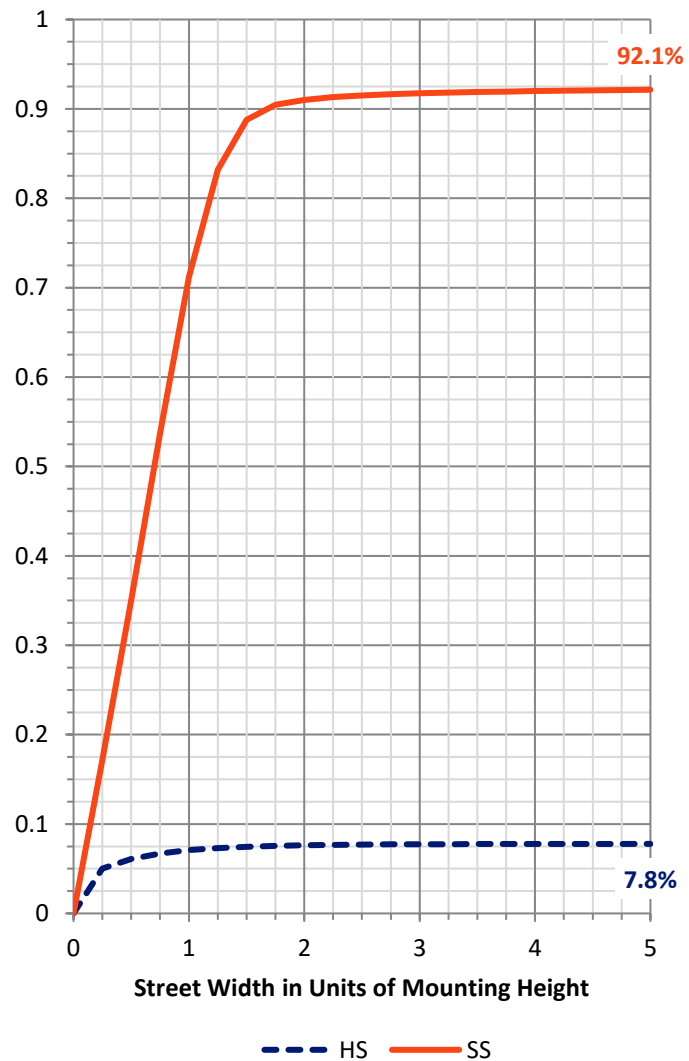
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3174.8	0.0	3174.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	37477.3	0.0	37477.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	40652.0	0.0	40652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.5	2.2
10°-20°	2201.7	5.4
20°-30°	3522.6	8.7
30°-40°	5962.3	14.7
40°-50°	9788.8	24.1
50°-60°	10758.6	26.5
60°-70°	6171.1	15.2
70°-80°	1261.0	3.1
80°-90°	74.4	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°	40652.0	100.0
0°-180°	40652.0	100.0

Coefficient of Utilization



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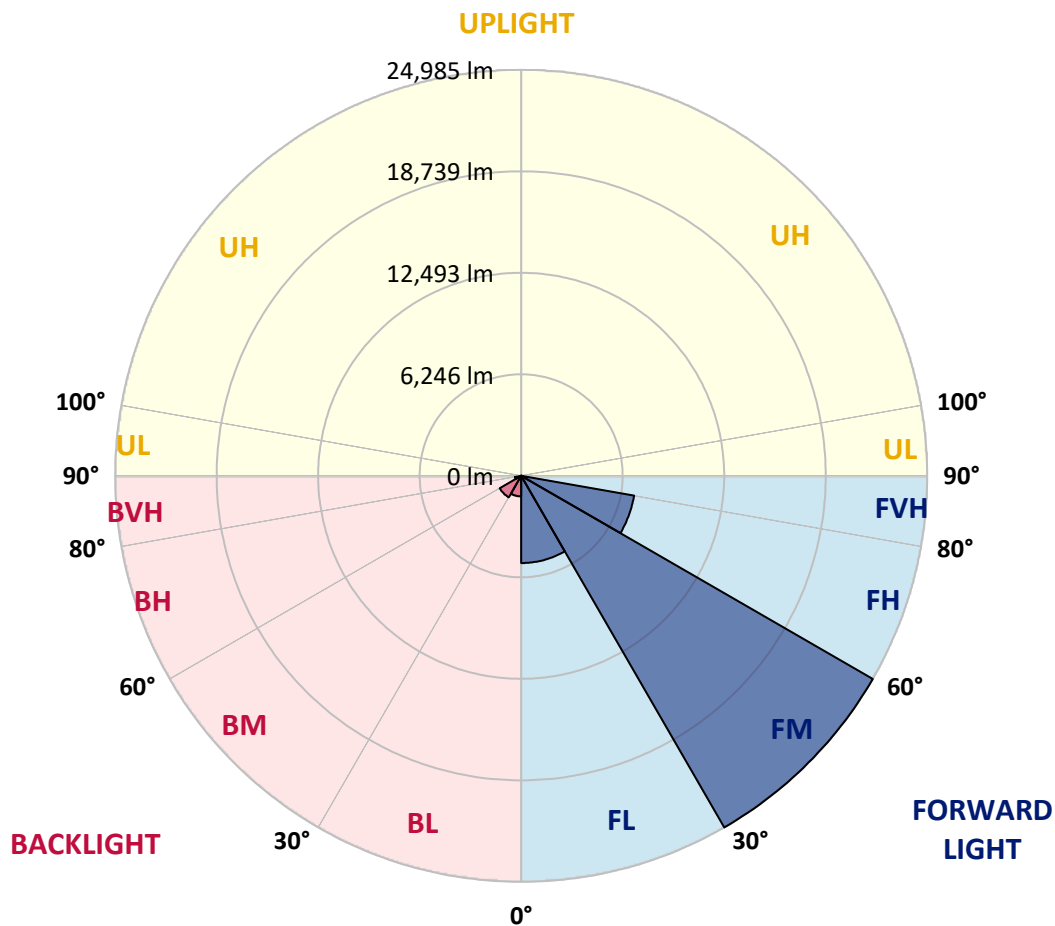
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5368.3	13.2			
FM	(30°-60°)	24985.0	61.5			
FH	(60°-80°)	7054.5	17.4			G3/7500
FVH	(80°-90°)	69.4	0.2			G1/100
BL	(0°-30°)	1267.4	3.1	B3/2500		
BM	(30°-60°)	1524.7	3.8	B2/2500		
BH	(60°-80°)	377.6	0.9	B1/500		G1/500
BVH	(80°-90°)	5.0	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°	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1
2.5°	12154.9	12002.0	11979.5	11949.4	11658.6	11440.5	11124.7	10778.8	10390.2	9994.2	9818.7
5°	14042.5	13922.1	13899.6	13759.2	13428.3	13057.3	12495.8	11786.4	11062.0	10209.7	9843.8
7.5°	14408.4	14385.9	14488.6	14483.6	14438.5	14145.2	13671.5	12826.7	11738.8	10475.4	9908.9
10°	12776.6	12834.2	13140.0	13408.3	14132.7	14553.8	14451.0	13754.2	12435.7	10778.8	9981.6
12.5°	11290.1	11222.4	11440.5	11743.8	12586.1	13839.4	14774.4	14528.8	13232.8	11122.2	10089.4
15°	10357.6	10330.1	10452.9	10593.3	11235.0	12498.3	14398.4	15157.9	13999.8	11528.3	10252.3
17.5°	10059.3	10036.8	10074.4	10109.5	10525.6	11503.2	13503.5	15544.0	14734.3	11992.0	10432.8
20°	10302.5	10272.4	10267.4	10239.8	10412.8	11079.6	12693.9	15571.5	15393.6	12413.1	10588.2
22.5°	11011.9	10976.8	10854.0	10743.7	10758.7	11137.2	12332.9	15295.8	15889.9	12806.7	10686.0
25°	12297.8	12240.1	11984.5	11613.5	11377.8	11538.3	12388.0	14932.3	16363.6	13115.0	10638.4
27.5°	13907.1	13831.9	13503.5	12952.0	12413.1	12217.6	12786.6	14681.7	16757.2	13350.6	10535.6
30°	15483.8	15386.0	15062.7	14634.0	13846.9	13230.3	13506.0	14792.0	17225.9	13596.3	10400.2
32.5°	17185.8	17093.1	16664.5	16133.0	15481.3	14651.6	14491.2	15330.9	17800.0	13939.7	10305.0
35°	19339.1	19193.7	18584.6	17860.1	17168.3	16328.6	15824.7	16260.9	18564.5	14463.6	10357.6
37.5°	21790.6	21595.1	20938.4	19938.2	19035.8	18095.8	17449.0	17539.3	19685.0	15165.5	10520.6
40°	24101.8	23923.8	23317.2	22374.7	21241.7	20101.1	19411.8	19211.2	21231.6	16020.2	10806.3
42.5°	25488.0	25327.6	25071.9	24673.3	23718.3	22555.2	21685.3	21251.7	23061.5	17043.0	11154.8
45°	25565.7	25425.3	25768.7	26232.5	26044.5	25269.9	24209.6	23415.0	24898.9	18003.0	11515.7
47.5°	24322.4	24227.1	25269.9	26889.2	27696.4	28022.2	27044.6	25397.7	26415.5	18692.4	11663.6
50°	20933.3	20898.2	23044.0	26016.9	28325.6	30433.7	30035.1	27242.7	27591.1	19048.3	11523.2
52.5°	18150.9	18023.1	19273.9	23224.4	27410.6	31702.1	32957.9	29052.5	28413.3	19116.0	11194.9
55°	13766.7	13653.9	15223.1	18552.0	24460.2	31250.9	35096.1	30920.0	29002.4	18943.0	10605.8
57.5°	7384.7	7314.5	9297.3	12347.9	19121.0	28543.6	35482.1	32895.2	29498.7	18484.3	9781.1
60°	2875.2	2862.6	3604.6	5991.0	11621.0	23221.9	33534.4	34080.9	29809.5	17920.3	9091.8
62.5°	1739.6	1777.2	1897.6	2689.7	5133.7	14426.0	29045.0	32732.3	30017.6	17403.9	8522.7
65°	1438.8	1441.3	1456.4	1847.4	2459.1	6036.1	21865.8	28295.5	29503.7	16484.0	7715.6
67.5°	1233.3	1255.8	1313.5	1466.4	1734.6	2647.1	12588.6	21918.5	26377.9	14343.3	6457.2
70°	972.6	1002.7	1075.4	1205.7	1338.6	1656.9	4652.4	14583.9	20151.3	10811.3	4883.0
72.5°	819.7	817.2	854.8	980.1	1062.8	1165.6	1789.8	8171.8	11711.2	5161.3	2416.4
75°	634.2	659.3	706.9	819.7	869.8	844.8	970.1	2985.5	4196.2	1564.2	822.2
77.5°	496.3	516.4	559.0	669.3	719.4	599.1	559.0	1067.8	1348.6	561.5	371.0
80°	223.1	240.6	381.0	493.8	586.6	413.6	303.3	546.5	599.1	255.7	188.0
82.5°	40.1	67.7	223.1	260.7	300.8	268.2	157.9	283.3	293.3	102.8	65.2
85°	2.5	5.0	77.7	95.3	120.3	87.7	47.6	112.8	97.8	35.1	25.1
87.5°	0.0	0.0	0.0	2.5	2.5	12.5	15.0	20.1	15.0	12.5	10.0
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°	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1	9796.1
2.5°	9638.2	9282.3	8936.3	8653.1	8487.6	8206.9	8021.4	7991.3	7913.6	7981.3
5°	9452.7	8816.0	8171.8	7595.3	7121.5	6509.9	6053.6	5860.6	5692.7	5750.3
7.5°	9365.0	8359.8	7357.1	6372.0	5359.3	4381.7	3654.7	3351.4	3120.8	3153.4
10°	9247.2	7886.0	6314.3	4810.3	3454.2	2489.1	1987.8	1802.3	1699.5	1702.0
12.5°	9156.9	7319.5	5103.6	3261.2	2103.1	1589.2	1433.8	1388.7	1358.6	1361.1
15°	9111.8	6652.7	3907.9	2173.3	1504.0	1346.1	1308.5	1288.4	1268.4	1265.9
17.5°	9036.6	5910.8	2860.1	1586.7	1316.0	1260.9	1228.3	1205.7	1180.6	1175.6
20°	8923.8	5068.5	2090.6	1341.1	1233.3	1190.7	1145.6	1115.5	1085.4	1080.4
22.5°	8715.7	4178.6	1606.8	1240.8	1173.1	1125.5	1070.4	1035.3	1005.2	1000.2
25°	8329.7	3343.9	1353.6	1178.1	1120.5	1062.8	1002.7	955.0	927.5	922.5
27.5°	7840.9	2627.0	1228.3	1120.5	1052.8	1000.2	932.5	887.4	862.3	857.3
30°	7264.4	2022.9	1155.6	1055.3	972.6	927.5	867.3	829.7	814.7	814.7
32.5°	6642.7	1616.8	1125.5	990.1	902.4	852.3	804.6	789.6	784.6	782.1
35°	6058.7	1403.7	1110.5	937.5	839.7	792.1	772.1	774.6	784.6	784.6
37.5°	5539.8	1336.1	1102.9	899.9	784.6	742.0	754.5	777.1	767.0	767.0
40°	5071.0	1343.6	1097.9	872.3	739.5	714.4	739.5	721.9	696.9	694.4
42.5°	4712.6	1406.3	1087.9	849.8	711.9	694.4	684.3	656.8	654.2	659.3
45°	4451.9	1461.4	1085.4	839.7	681.8	649.2	636.7	609.1	659.3	671.8
47.5°	4143.6	1461.4	1085.4	804.6	631.7	619.2	599.1	569.0	619.2	631.7
50°	3745.0	1368.7	1042.8	764.5	591.6	584.1	549.0	511.4	501.3	508.9
52.5°	3241.1	1200.7	935.0	709.4	551.5	536.4	493.8	466.2	458.7	458.7
55°	2667.1	1005.2	789.6	629.2	508.9	481.3	451.2	438.7	431.2	426.1
57.5°	2168.3	824.7	634.2	559.0	468.8	433.7	423.6	408.6	396.1	388.5
60°	1779.7	649.2	523.9	496.3	428.6	396.1	393.5	373.5	340.9	335.9
62.5°	1373.7	476.3	441.2	431.2	388.5	361.0	355.9	315.8	265.7	255.7
65°	970.1	371.0	355.9	378.5	345.9	320.9	308.3	248.2	195.5	188.0
67.5°	681.8	310.8	280.7	330.9	300.8	268.2	260.7	210.6	162.9	157.9
70°	486.3	253.2	230.6	283.3	240.6	235.6	220.6	175.5	132.9	127.8
72.5°	343.4	193.0	178.0	245.7	165.4	203.0	180.5	135.4	100.3	95.3
75°	253.2	137.9	125.3	142.9	120.3	152.9	127.8	90.2	62.7	60.2
77.5°	185.5	87.7	75.2	70.2	70.2	95.3	70.2	37.6	27.6	25.1
80°	130.3	40.1	35.1	30.1	27.6	22.6	10.0	5.0	2.5	2.5
82.5°	77.7	17.5	17.5	12.5	7.5	0.0	0.0	0.0	0.0	0.0
85°	17.5	7.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	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)