

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: P956283

Luminaire Tested: **GALN-SB9A-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37038 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 255.5
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

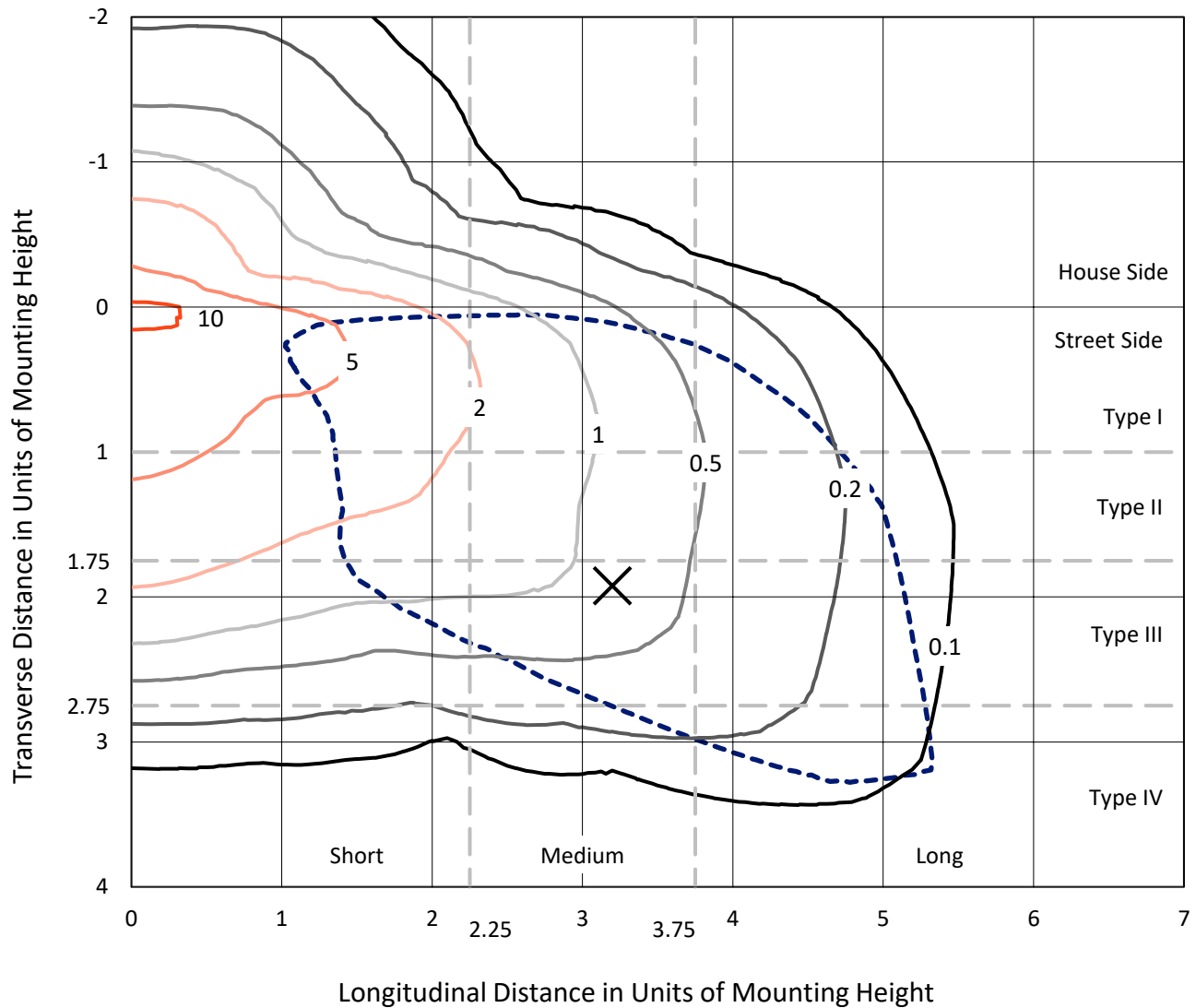


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

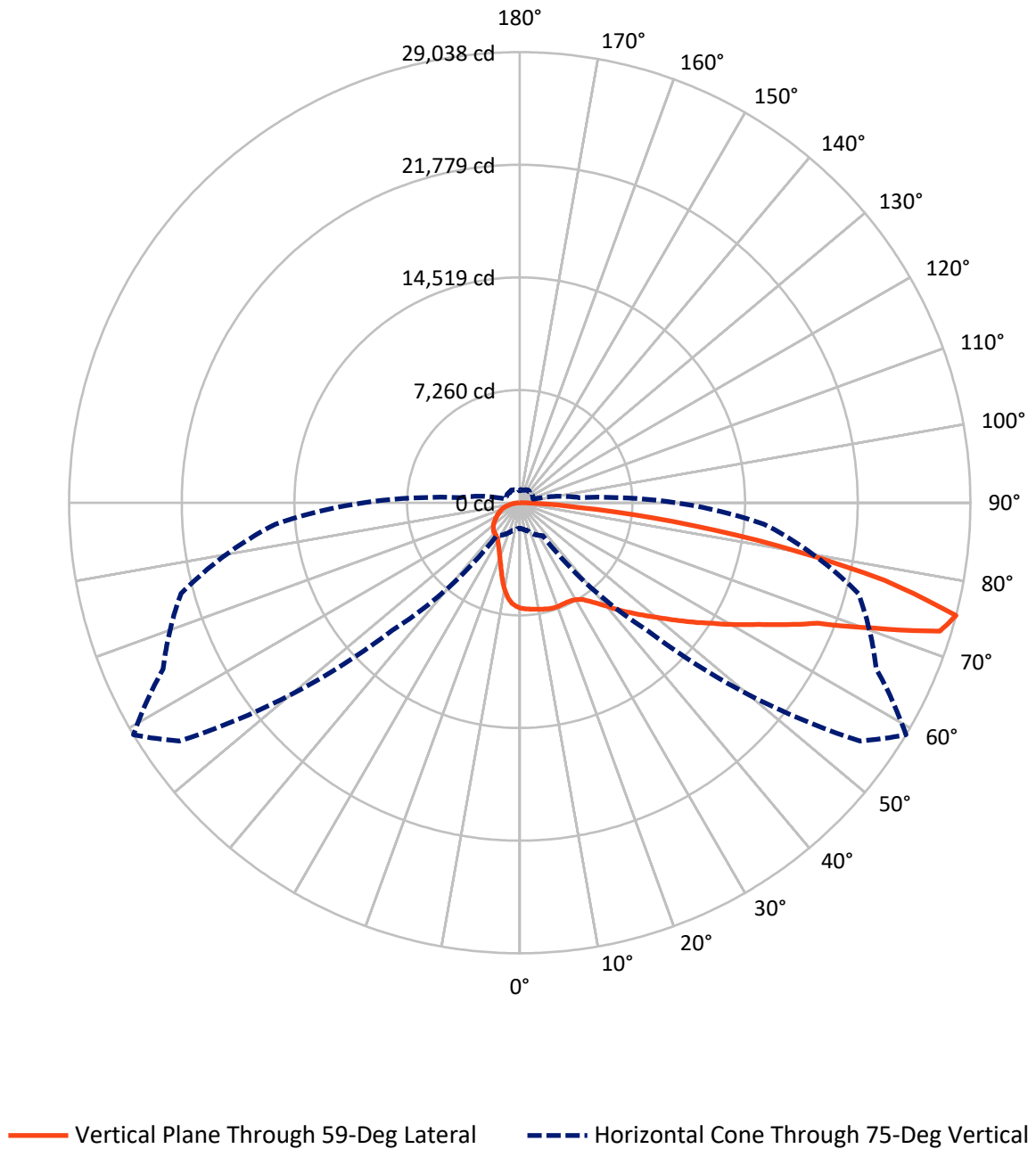


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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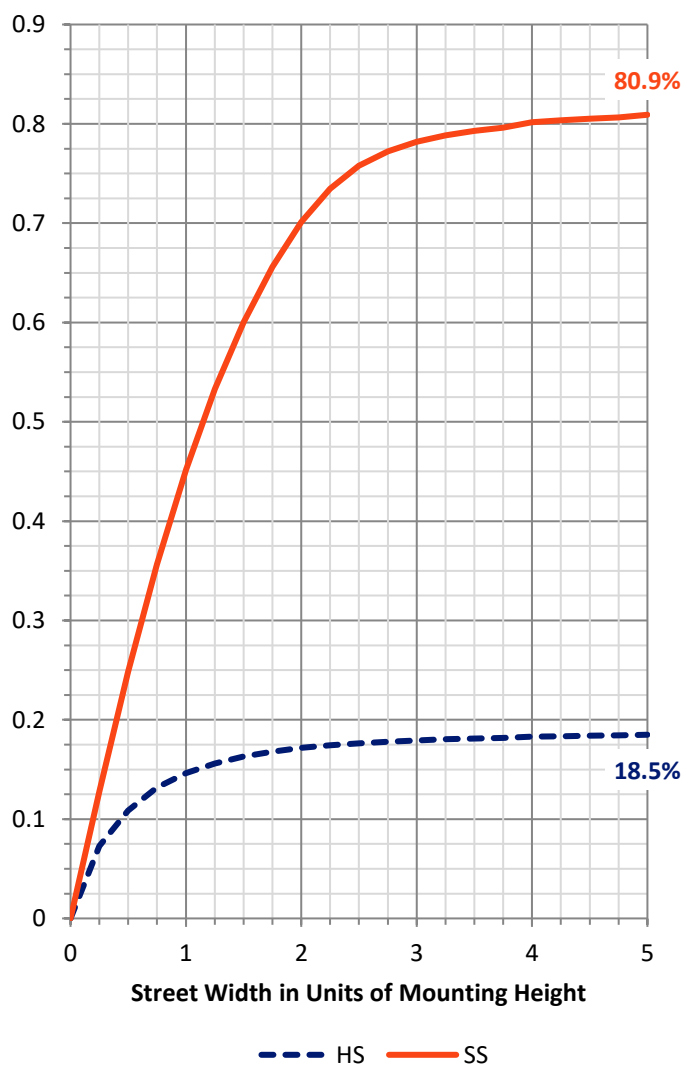
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6946.7	0.0	6946.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30091.3	0.0	30091.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	37038.0	0.0	37038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.6	1.6
10°-20°	1558.1	4.2
20°-30°	2366.6	6.4
30°-40°	3517.9	9.5
40°-50°	5231.8	14.1
50°-60°	7101.5	19.2
60°-70°	8669.8	23.4
70°-80°	6804.0	18.4
80°-90°	1178.6	3.2
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°	37038.0	100.0
0°-180°	37038.0	100.0

Coefficient of Utilization



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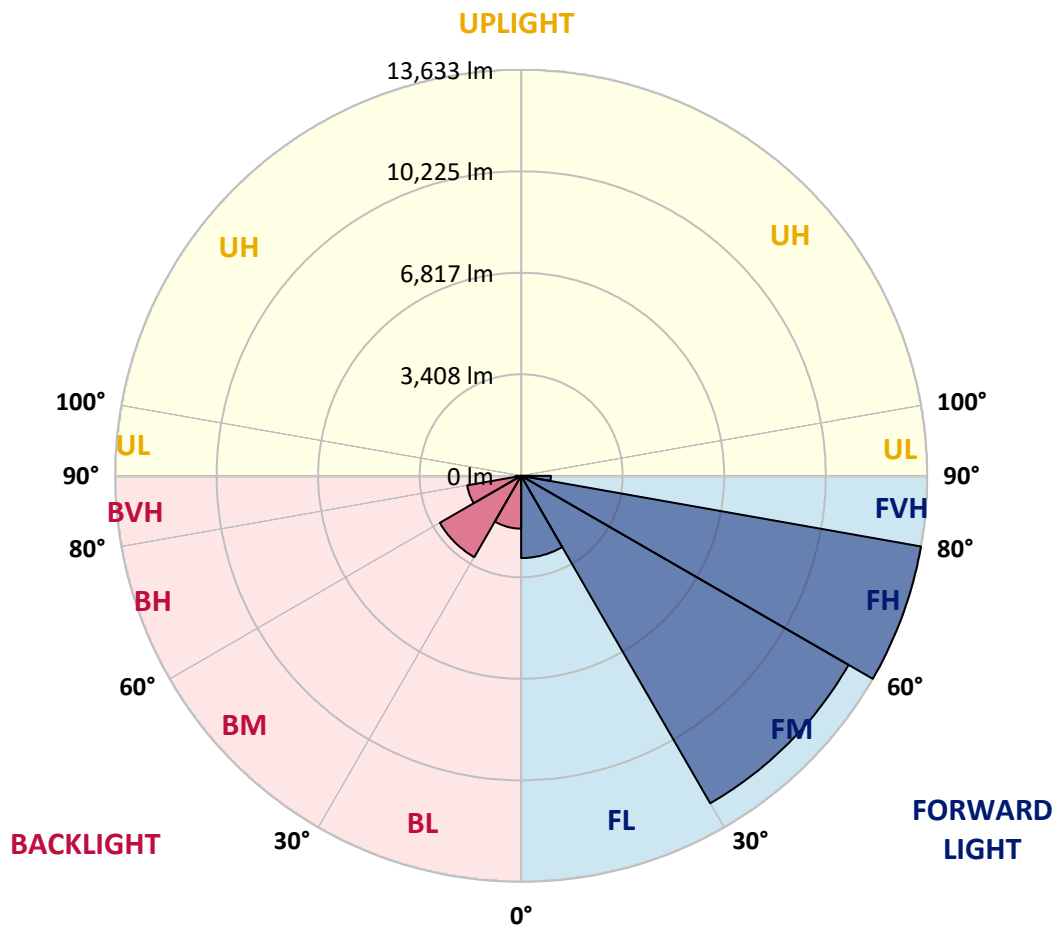
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2761.6	7.5			
FM	(30°-60°)	12698.2	34.3			
FH	(60°-80°)	13633.3	36.8			G5
FVH	(80°-90°)	998.2	2.7			G5
BL	(0°-30°)	1772.7	4.8	B3/2500		
BM	(30°-60°)	3153.1	8.5	B3/5000		
BH	(60°-80°)	1840.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	180.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2
2.5°	6856.0	6832.1	6856.0	6846.1	6842.1	6834.1	6836.1	6850.0	6842.1	6852.0	6818.2
5°	6810.2	6796.2	6820.2	6814.2	6840.1	6844.1	6870.0	6885.9	6895.9	6897.9	6872.0
7.5°	6734.5	6720.5	6754.4	6782.3	6838.1	6854.0	6907.8	6933.7	6947.7	6971.6	6933.7
10°	6457.5	6451.6	6535.2	6640.8	6772.3	6854.0	6935.7	6979.6	7001.5	7065.2	7021.4
12.5°	5967.4	5975.4	6084.9	6288.2	6551.2	6814.2	6967.6	7031.4	7065.2	7144.9	7125.0
15°	5499.2	5497.2	5616.7	5833.9	6202.5	6638.8	6983.5	7093.1	7150.9	7268.5	7252.5
17.5°	5228.2	5220.2	5303.9	5469.3	5812.0	6369.9	6943.7	7127.0	7250.5	7398.0	7384.0
20°	5178.4	5162.4	5206.3	5288.0	5531.0	6075.0	6840.1	7127.0	7330.2	7521.5	7513.5
22.5°	5359.7	5333.8	5315.9	5305.9	5413.5	5831.9	6722.5	7103.1	7447.8	7698.8	7684.9
25°	5724.3	5684.5	5592.8	5503.1	5471.3	5722.3	6618.9	7097.1	7623.1	7937.9	7886.1
27.5°	6314.1	6264.3	6079.0	5863.8	5670.5	5778.1	6573.1	7133.0	7816.4	8191.0	8087.4
30°	7045.3	6991.5	6758.4	6427.6	6081.0	5985.3	6630.9	7238.6	8063.4	8527.7	8324.5
32.5°	7700.8	7641.0	7441.8	7105.1	6636.9	6344.0	6814.2	7439.8	8452.0	8995.9	8681.1
35°	8282.6	8212.9	8033.6	7722.7	7318.3	6848.1	7144.9	7796.5	9003.9	9757.0	9165.3
37.5°	8852.5	8770.8	8575.5	8246.8	7963.8	7519.5	7601.2	8254.7	9737.1	10681.5	9806.8
40°	9490.0	9372.5	9135.4	8810.6	8535.7	8306.5	8200.9	8816.6	10482.3	11713.6	10607.8
42.5°	10107.7	9996.1	9713.2	9436.2	9091.6	9025.8	8896.3	9474.1	11297.2	12847.3	11420.7
45°	10773.2	10639.7	10297.0	9946.3	9729.1	9504.0	9569.7	10131.6	12096.2	14002.9	12273.5
47.5°	11396.8	11247.4	10842.9	10452.4	10332.9	9906.5	10187.4	10854.9	12927.0	15174.5	13118.3
50°	11733.5	11586.1	11249.4	10896.7	10803.1	10402.6	10856.9	11649.9	13797.7	16342.1	13929.2
52.5°	12014.5	11855.1	11414.8	11219.5	11191.6	10942.5	11681.7	12558.4	14668.4	17374.2	14712.3
55°	12313.3	12136.0	11574.1	11398.8	11526.3	11548.2	12660.0	13588.5	15588.9	18380.4	15451.5
57.5°	12658.0	12432.9	11727.6	11550.2	11853.1	12257.6	13783.8	14656.5	16493.5	19312.8	16109.0
60°	12982.8	12755.7	12022.4	11791.3	12205.8	13080.4	15072.9	15949.6	17517.6	20143.7	16730.6
62.5°	13046.6	12859.3	12257.6	12255.6	12683.9	14040.8	16599.1	17254.6	18412.2	20964.6	17288.5
65°	11942.8	11825.2	11468.5	12237.6	13369.3	15423.6	18298.7	18924.3	19549.9	21681.9	17778.6
67.5°	9089.6	9105.5	9079.6	10564.0	12815.4	17410.0	20759.3	20711.5	20954.6	22486.8	18342.5
70°	4156.3	4249.9	4859.6	7292.4	10267.1	17639.2	24827.9	24208.3	22717.9	23528.9	18830.7
72.5°	2245.5	2317.2	2566.3	3532.6	6172.6	15682.6	27868.4	28308.7	25063.0	24230.2	18294.7
75°	1647.8	1687.6	1860.9	2245.5	2592.2	11655.8	26778.5	29038.0	25355.9	22594.4	15798.1
77.5°	1233.3	1251.3	1392.7	1779.3	1327.0	6144.7	21396.9	24048.9	21705.8	18563.7	11669.8
80°	894.6	914.5	1020.1	1334.9	930.5	2247.5	14692.3	16880.0	14865.7	11833.2	5816.0
82.5°	617.7	625.6	671.5	908.6	649.5	872.7	8336.4	9898.5	8298.6	4152.3	1570.1
85°	372.6	382.6	402.5	530.0	368.6	414.4	3598.4	3721.9	2480.6	992.2	488.2
87.5°	153.4	163.4	179.3	223.2	145.4	115.6	593.8	745.2	464.2	290.9	151.4
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°	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2
2.5°	6808.2	6794.3	6756.4	6704.6	6656.8	6597.0	6571.1	6549.2	6529.3	6491.4	6473.5
5°	6850.0	6812.2	6710.6	6579.1	6429.6	6266.3	6106.9	5997.3	5903.6	5833.9	5776.1
7.5°	6913.8	6842.1	6656.8	6387.8	6045.1	5694.4	5377.6	5152.5	4983.1	4921.4	4813.8
10°	6979.6	6893.9	6571.1	6096.9	5505.1	4965.2	4544.8	4313.7	4178.2	4134.3	4066.6
12.5°	7057.3	6931.7	6437.6	5692.4	4901.4	4309.7	3943.1	3807.6	3737.8	3713.9	3719.9
15°	7170.8	6963.6	6236.4	5186.3	4325.6	3831.5	3594.4	3500.7	3464.9	3462.9	3470.8
17.5°	7256.5	6969.6	5923.6	4644.4	3883.3	3542.6	3347.3	3311.5	3335.4	3371.2	3385.2
20°	7352.1	6915.8	5513.1	4150.3	3572.5	3289.5	3207.8	3231.8	3289.5	3341.3	3359.3
22.5°	7419.9	6818.2	5017.0	3765.7	3303.5	3144.1	3140.1	3189.9	3221.8	3247.7	3261.6
25°	7479.7	6652.8	4491.0	3443.0	3082.3	3056.4	3100.3	3084.3	3062.4	3084.3	3098.3
27.5°	7523.5	6391.8	4020.8	3160.0	2926.9	2996.6	2970.7	2934.9	2932.9	2944.8	2964.8
30°	7509.5	6043.1	3634.2	2891.0	2817.3	2885.1	2823.3	2817.3	2811.3	2817.3	2839.2
32.5°	7509.5	5646.6	3337.4	2705.7	2747.6	2721.7	2715.7	2701.8	2677.9	2675.9	2701.8
35°	7551.4	5250.1	3082.3	2606.1	2689.8	2628.0	2632.0	2598.2	2548.3	2524.4	2548.3
37.5°	7637.1	4931.3	2829.3	2558.3	2588.2	2586.2	2570.3	2512.5	2424.8	2349.1	2375.0
40°	7844.3	4837.7	2655.9	2536.4	2540.4	2564.3	2522.4	2410.9	2211.6	2088.1	2104.0
42.5°	8169.0	4995.1	2618.1	2482.6	2508.5	2532.4	2450.7	2191.7	2050.2	1976.5	1976.5
45°	8581.5	5270.0	2699.8	2404.9	2432.8	2474.6	2231.5	2108.0	2044.3	2046.2	2056.2
47.5°	9103.5	5558.9	2851.2	2337.1	2323.2	2347.1	2086.1	2010.4	1922.7	1944.6	2000.4
50°	9707.2	5851.8	2994.7	2245.5	2201.7	2124.0	1992.5	1920.7	1809.1	1757.3	1771.3
52.5°	10360.7	6134.8	3052.4	2133.9	2070.2	1980.5	1928.7	1841.0	1705.5	1619.9	1617.9
55°	10980.4	6391.8	2988.7	2000.4	1938.7	1868.9	1860.9	1807.2	1661.7	1542.2	1542.2
57.5°	11566.2	6607.0	2829.3	1864.9	1805.2	1763.3	1817.1	1791.2	1607.9	1454.5	1446.5
60°	12062.3	6754.4	2598.2	1727.5	1685.6	1663.7	1745.4	1737.4	1532.2	1360.8	1354.9
62.5°	12456.8	6812.2	2343.1	1596.0	1586.0	1546.1	1645.8	1645.8	1436.6	1269.2	1263.2
65°	12765.6	6756.4	2084.1	1466.4	1486.4	1426.6	1524.2	1512.3	1334.9	1187.5	1179.5
67.5°	13038.6	6573.1	1797.2	1338.9	1384.8	1309.0	1396.7	1368.8	1223.4	1105.8	1097.8
70°	13160.1	6146.7	1470.4	1211.4	1267.2	1193.5	1269.2	1217.4	1097.8	1018.1	1002.2
72.5°	12183.8	5108.6	1157.6	1077.9	1125.7	1066.0	1131.7	1071.9	962.4	926.5	896.6
75°	10079.8	3833.5	890.6	932.5	968.3	922.5	966.3	922.5	822.9	848.8	775.1
77.5°	7320.3	2588.2	681.4	779.0	795.0	771.1	808.9	759.1	669.5	663.5	633.6
80°	3640.2	1516.3	534.0	615.7	609.7	593.8	637.6	613.7	538.0	569.8	563.9
82.5°	1054.0	649.5	388.5	432.4	420.4	424.4	456.3	468.2	701.3	695.4	711.3
85°	330.7	255.0	233.1	241.1	229.1	235.1	269.0	534.0	494.1	288.9	312.8
87.5°	85.7	87.7	57.8	61.8	63.8	75.7	85.7	324.8	155.4	101.6	107.6
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)