

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: P955947

Luminaire Tested: **GALN-SB8D-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955947
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-SB8D-730-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80420 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 584.9
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

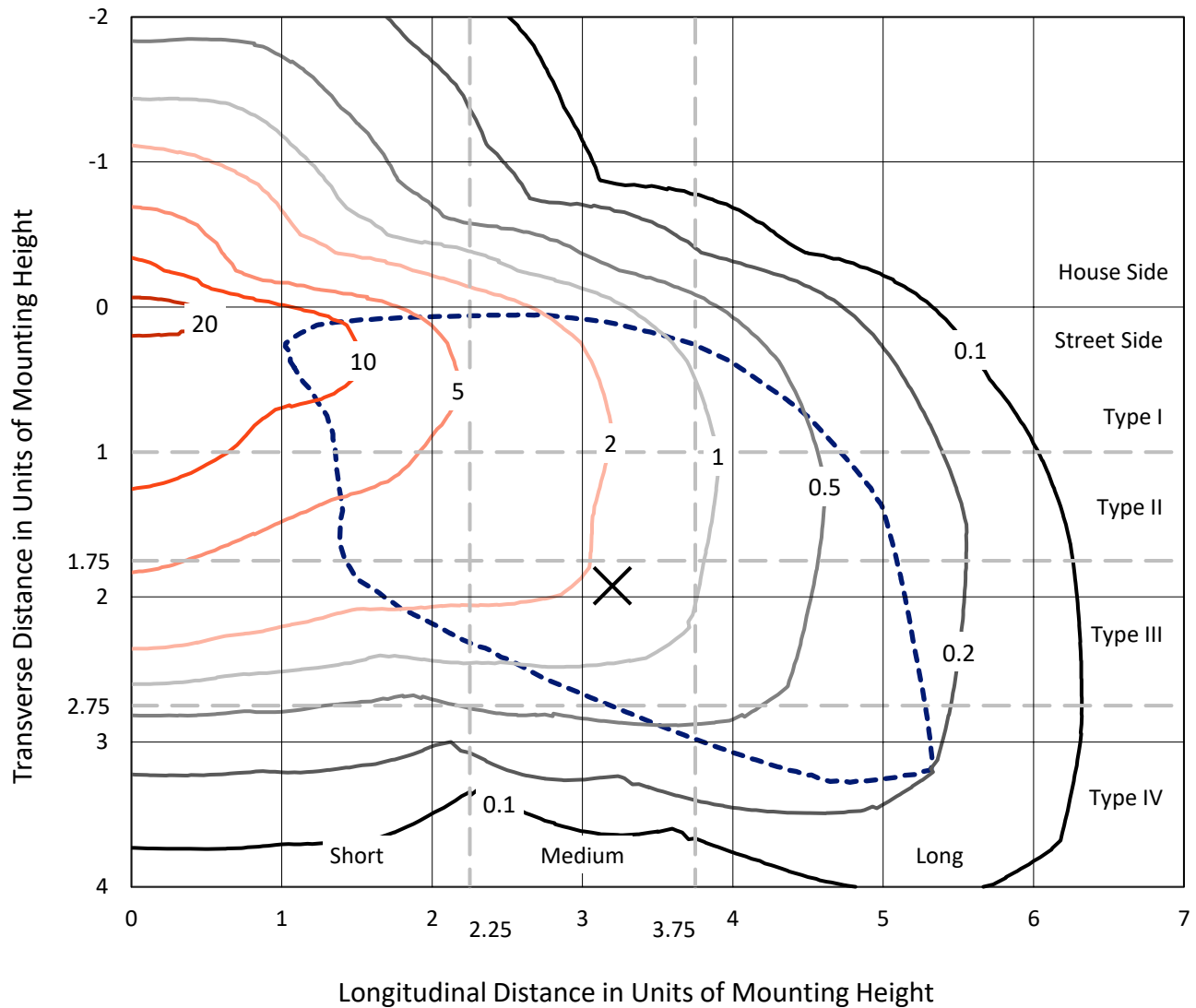


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

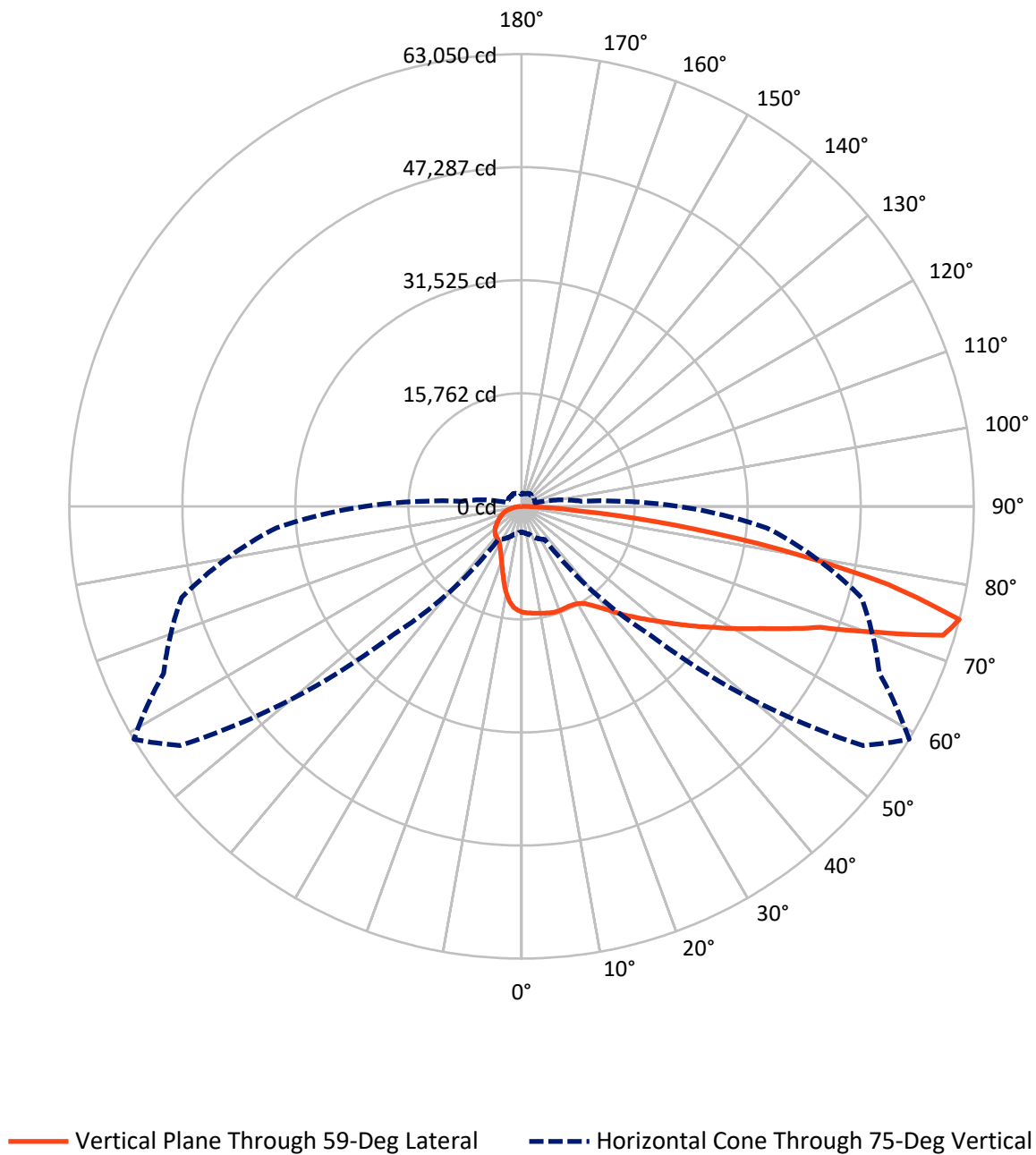


Based on 25 foot mounting height. Maximum calculated value = 23.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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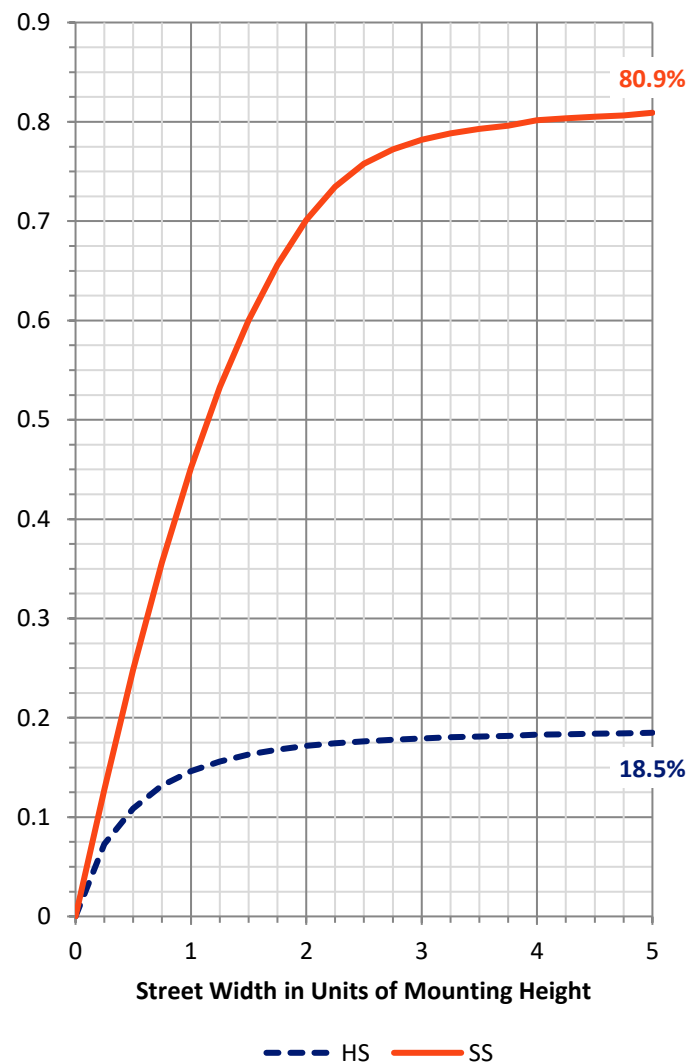
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15083.3	0.0	15083.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	65336.7	0.0	65336.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	80420.0	0.0	80420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1323.5	1.6
10°-20°	3383.1	4.2
20°-30°	5138.7	6.4
30°-40°	7638.4	9.5
40°-50°	11359.7	14.1
50°-60°	15419.5	19.2
60°-70°	18824.6	23.4
70°-80°	14773.3	18.4
80°-90°	2559.1	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°	80420.0	100.0
0°-180°	80420.0	100.0

Coefficient of Utilization



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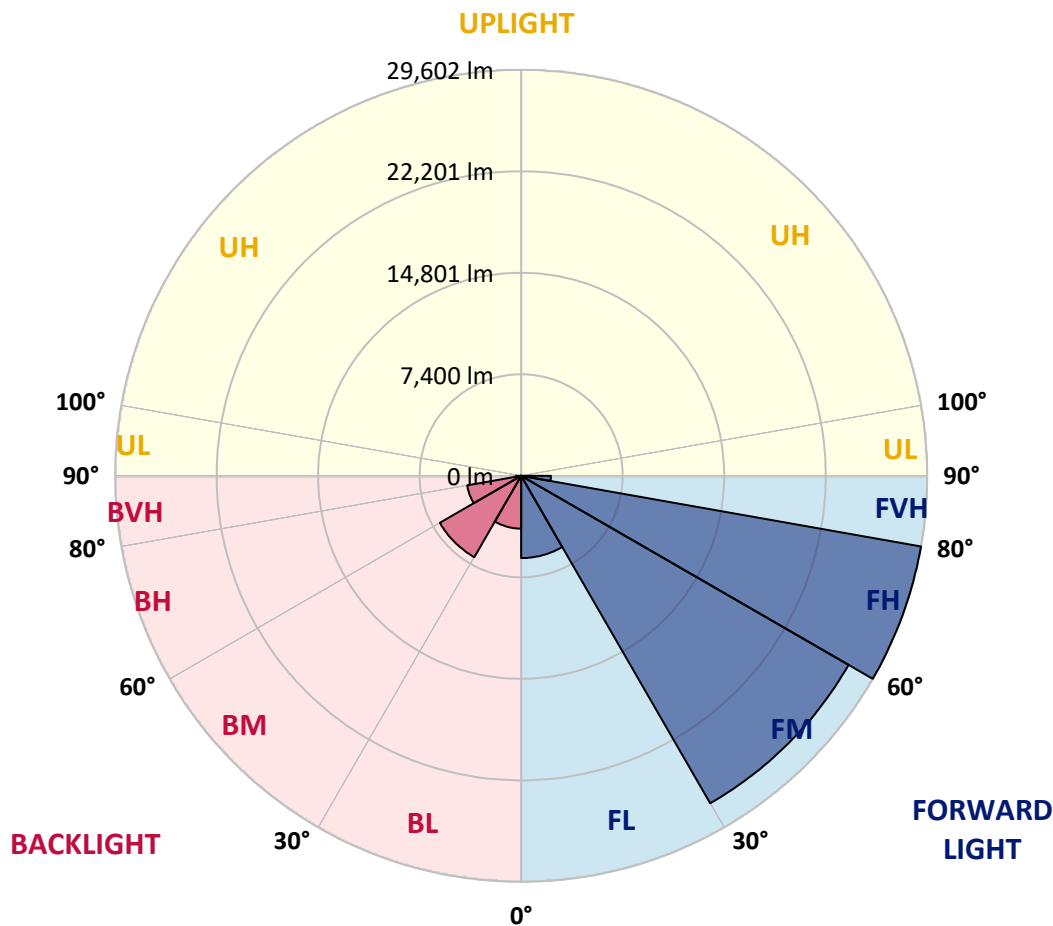
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5996.2	7.5			
FM	(30°-60°)	27571.3	34.3			
FH	(60°-80°)	29601.8	36.8			G5
FVH	(80°-90°)	2167.4	2.7			G5
BL	(0°-30°)	3849.1	4.8	B4/5000		
BM	(30°-60°)	6846.3	8.5	B4/8500		
BH	(60°-80°)	3996.2	5.0	B4/5000		G4/5000
BVH	(80°-90°)	391.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9
2.5°	14886.4	14834.5	14886.4	14864.7	14856.1	14838.8	14843.1	14873.4	14856.1	14877.7	14804.2
5°	14786.9	14756.6	14808.5	14795.5	14851.8	14860.4	14916.7	14951.3	14972.9	14977.2	14921.0
7.5°	14622.5	14592.2	14665.7	14726.3	14847.4	14882.0	14998.9	15055.1	15085.4	15137.3	15055.1
10°	14021.1	14008.2	14189.9	14419.1	14704.7	14882.0	15059.4	15154.6	15202.2	15340.6	15245.4
12.5°	12956.9	12974.2	13212.1	13653.4	14224.5	14795.5	15128.6	15267.1	15340.6	15513.7	15470.4
15°	11940.2	11935.9	12195.5	12667.0	13467.4	14414.8	15163.2	15401.2	15526.6	15781.9	15747.3
17.5°	11351.9	11334.6	11516.3	11875.4	12619.5	13830.8	15076.7	15474.7	15743.0	16063.1	16032.8
20°	11243.7	11209.1	11304.3	11481.7	12009.5	13190.5	14851.8	15474.7	15916.0	16331.3	16314.0
22.5°	11637.4	11581.2	11542.2	11520.6	11754.2	12662.7	14596.5	15422.8	16171.2	16716.3	16686.1
25°	12429.1	12342.6	12143.6	11948.9	11879.7	12424.8	14371.6	15409.8	16551.9	17235.5	17123.0
27.5°	13709.7	13601.5	13199.2	12731.9	12312.3	12545.9	14272.1	15487.7	16971.6	17784.9	17559.9
30°	15297.4	15180.6	14674.4	13956.2	13203.5	12995.8	14397.5	15717.0	17508.0	18516.0	18074.8
32.5°	16720.7	16590.9	16158.3	15427.1	14410.5	13774.5	14795.5	16153.9	18351.6	19532.7	18849.1
35°	17983.9	17832.5	17443.1	16768.3	15890.0	14869.1	15513.7	16928.3	19550.0	21185.3	19900.4
37.5°	19221.2	19043.8	18619.9	17906.0	17291.7	16327.0	16504.4	17923.3	21142.0	23192.6	21293.4
40°	20605.6	20350.3	19835.5	19130.3	18533.3	18035.8	17806.5	19143.3	22760.0	25433.6	23032.6
42.5°	21946.7	21704.4	21090.1	20488.8	19740.3	19597.6	19316.4	20571.0	24529.4	27895.2	24797.6
45°	23391.6	23101.8	22357.7	21596.3	21124.7	20635.9	20778.6	21998.6	26264.2	30404.4	26649.2
47.5°	24745.7	24421.3	23543.0	22695.1	22435.5	21509.7	22119.7	23569.0	28068.2	32948.2	28483.5
50°	25476.8	25156.7	24425.6	23659.9	23456.5	22587.0	23573.3	25295.1	29958.8	35483.3	30244.3
52.5°	26086.8	25740.7	24784.7	24360.7	24300.1	23759.4	25364.4	27267.9	31849.3	37724.3	31944.5
55°	26735.8	26350.7	25130.8	24750.1	25026.9	25074.5	27488.5	29504.5	33848.0	39909.0	33549.5
57.5°	27484.2	26995.3	25463.9	25078.8	25736.4	26614.6	29928.5	31823.3	35812.1	41933.6	34977.1
60°	28189.4	27696.2	26104.1	25602.3	26502.2	28401.3	32727.5	34631.0	38035.7	43737.6	36326.9
62.5°	28327.8	27921.1	26614.6	26610.3	27540.4	30486.6	36041.4	37464.7	39978.2	45520.0	37538.2
65°	25931.1	25675.9	24901.5	26571.4	29028.6	33488.9	39731.6	41090.0	42448.4	47077.4	38602.5
67.5°	19736.0	19770.6	19714.4	22937.4	27826.0	37802.1	45074.4	44970.6	45498.4	48825.2	39826.8
70°	9024.4	9227.7	10551.5	15833.8	22292.8	38299.6	53908.5	52563.0	49327.1	51087.8	40886.7
72.5°	4875.6	5031.3	5572.1	7670.3	13402.5	34051.3	60510.2	61466.3	54419.0	52610.6	39722.9
75°	3577.7	3664.3	4040.6	4875.6	5628.4	25308.1	58143.8	63049.7	55054.9	49058.8	34302.2
77.5°	2677.9	2716.8	3024.0	3863.3	2881.2	13341.9	46458.8	52216.9	47129.4	40307.0	25338.4
80°	1942.5	1985.7	2215.0	2898.5	2020.3	4879.9	31901.2	36651.4	32277.6	25693.2	12628.1
82.5°	1341.1	1358.4	1457.9	1972.7	1410.3	1894.9	18100.7	21492.4	18018.5	9015.8	3409.0
85°	809.0	830.6	873.9	1150.8	800.3	899.8	7813.1	8081.3	5386.1	2154.4	1059.9
87.5°	333.1	354.7	389.4	484.5	315.8	250.9	1289.2	1618.0	1008.0	631.6	328.8
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°	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9	14760.9
2.5°	14782.5	14752.3	14670.1	14557.6	14453.8	14324.0	14267.7	14220.1	14176.9	14094.7	14055.7
5°	14873.4	14791.2	14570.6	14285.0	13960.6	13605.8	13259.7	13021.8	12818.5	12667.0	12541.6
7.5°	15011.8	14856.1	14453.8	13869.7	13125.6	12364.2	11676.3	11187.5	10819.8	10685.7	10452.0
10°	15154.6	14968.6	14267.7	13238.1	11953.2	10780.8	9868.0	9366.2	9072.0	8976.8	8829.7
12.5°	15323.3	15050.8	13977.9	12359.9	10642.4	9357.5	8561.5	8267.3	8115.9	8064.0	8077.0
15°	15569.9	15120.0	13540.9	11261.0	9392.1	8319.2	7804.4	7601.1	7523.2	7518.9	7536.2
17.5°	15755.9	15133.0	12861.7	10084.3	8431.7	7691.9	7268.0	7190.1	7242.0	7319.9	7350.2
20°	15963.6	15016.2	11970.5	9011.4	7756.8	7142.5	6965.1	7017.1	7142.5	7255.0	7293.9
22.5°	16110.7	14804.2	10893.3	8176.5	7172.8	6826.7	6818.1	6926.2	6995.4	7051.7	7081.9
25°	16240.5	14445.1	9751.2	7475.6	6692.6	6636.4	6731.5	6696.9	6649.3	6696.9	6727.2
27.5°	16335.6	13878.4	8730.2	6861.3	6355.2	6506.6	6450.3	6372.5	6368.1	6394.1	6437.3
30°	16305.4	13121.3	7890.9	6277.3	6117.2	6264.3	6130.2	6117.2	6104.2	6117.2	6164.8
32.5°	16305.4	12260.4	7246.3	5874.9	5965.8	5909.6	5896.6	5866.3	5814.4	5810.1	5866.3
35°	16396.2	11399.5	6692.6	5658.6	5840.3	5706.2	5714.9	5641.3	5533.2	5481.3	5533.2
37.5°	16582.2	10707.3	6143.2	5554.8	5619.7	5615.4	5580.8	5455.3	5265.0	5100.6	5156.8
40°	17032.2	10504.0	5766.8	5507.2	5515.9	5567.8	5476.9	5234.7	4802.1	4533.8	4568.4
42.5°	17737.3	10845.7	5684.6	5390.4	5446.7	5498.6	5321.2	4758.8	4451.6	4291.6	4291.6
45°	18632.8	11442.7	5862.0	5221.7	5282.3	5373.1	4845.3	4577.1	4438.7	4443.0	4464.6
47.5°	19766.3	12070.0	6190.8	5074.6	5044.3	5096.2	4529.5	4365.1	4174.8	4222.3	4343.5
50°	21077.1	12706.0	6502.2	4875.6	4780.4	4611.7	4326.2	4170.4	3928.2	3815.7	3846.0
52.5°	22496.1	13320.3	6627.7	4633.3	4494.9	4300.2	4187.7	3997.4	3703.2	3517.2	3512.9
55°	23841.6	13878.4	6489.3	4343.5	4209.4	4058.0	4040.6	3923.8	3608.0	3348.5	3348.5
57.5°	25113.5	14345.6	6143.2	4049.3	3919.5	3828.7	3945.5	3889.2	3491.2	3158.1	3140.8
60°	26190.7	14665.7	5641.3	3750.8	3659.9	3612.4	3789.7	3772.4	3326.8	2954.8	2941.8
62.5°	27047.3	14791.2	5087.6	3465.3	3443.6	3357.1	3573.4	3573.4	3119.2	2755.8	2742.8
65°	27717.8	14670.1	4525.2	3184.1	3227.3	3097.5	3309.5	3283.6	2898.5	2578.4	2561.1
67.5°	28310.5	14272.1	3902.2	2907.2	3006.7	2842.3	3032.6	2972.1	2656.3	2401.0	2383.7
70°	28574.4	13346.3	3192.7	2630.3	2751.4	2591.4	2755.8	2643.3	2383.7	2210.7	2176.1
72.5°	26454.6	11092.3	2513.5	2340.5	2444.3	2314.5	2457.3	2327.5	2089.5	2011.7	1946.8
75°	21886.1	8323.6	1933.8	2024.7	2102.5	2003.0	2098.2	2003.0	1786.7	1843.0	1682.9
77.5°	15894.4	5619.7	1479.6	1691.5	1726.1	1674.2	1756.4	1648.3	1453.6	1440.6	1375.7
80°	7903.9	3292.2	1159.4	1336.8	1323.8	1289.2	1384.4	1332.5	1168.1	1237.3	1224.3
82.5°	2288.5	1410.3	843.6	938.8	912.8	921.5	990.7	1016.7	1522.8	1509.8	1544.4
85°	718.1	553.8	506.2	523.5	497.5	510.5	584.0	1159.4	1072.9	627.3	679.2
87.5°	186.0	190.4	125.5	134.1	138.4	164.4	186.0	705.2	337.4	220.6	233.6
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)