

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: P944169

Luminaire Tested: **GALN-SB9A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37457 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
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

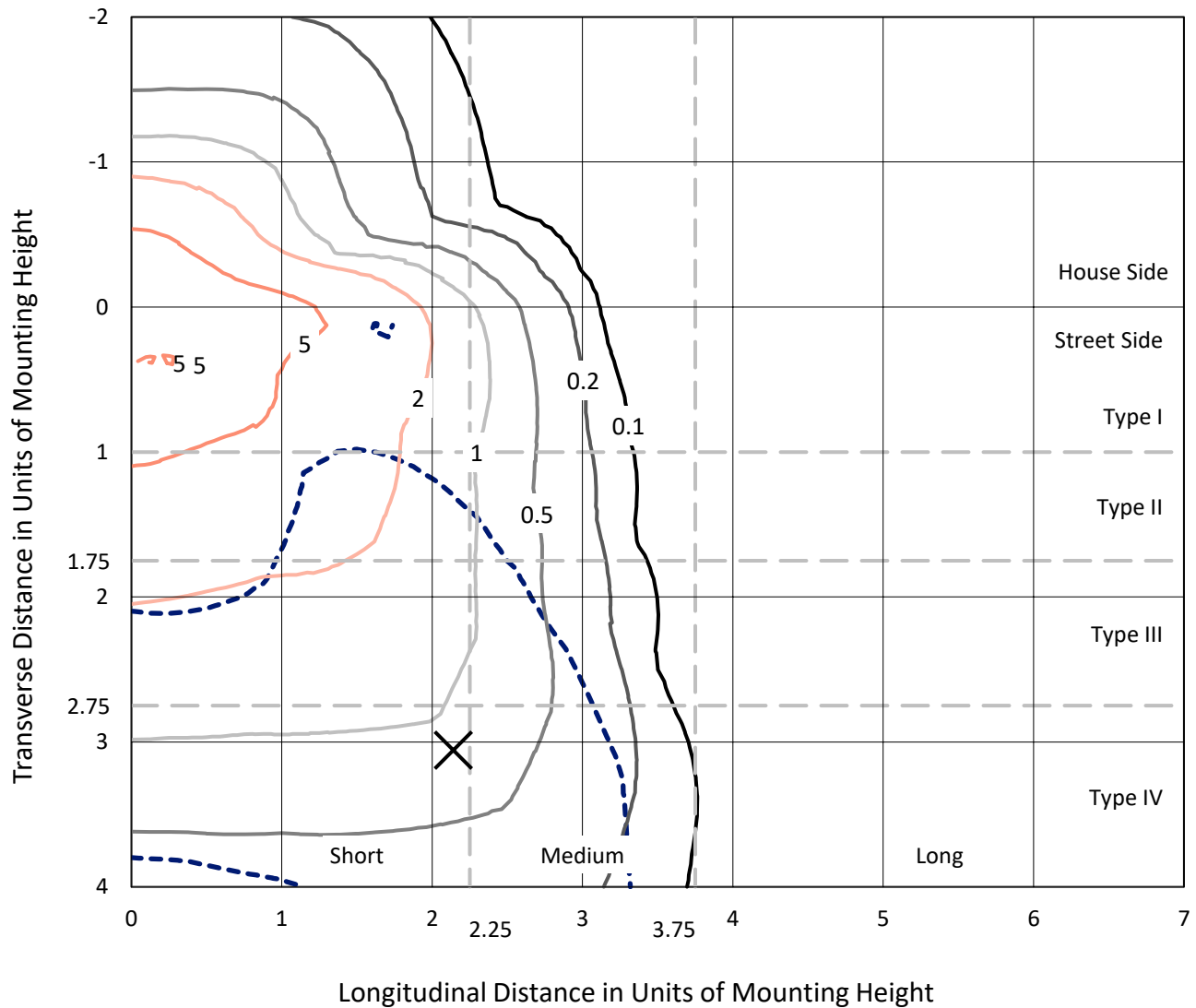


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

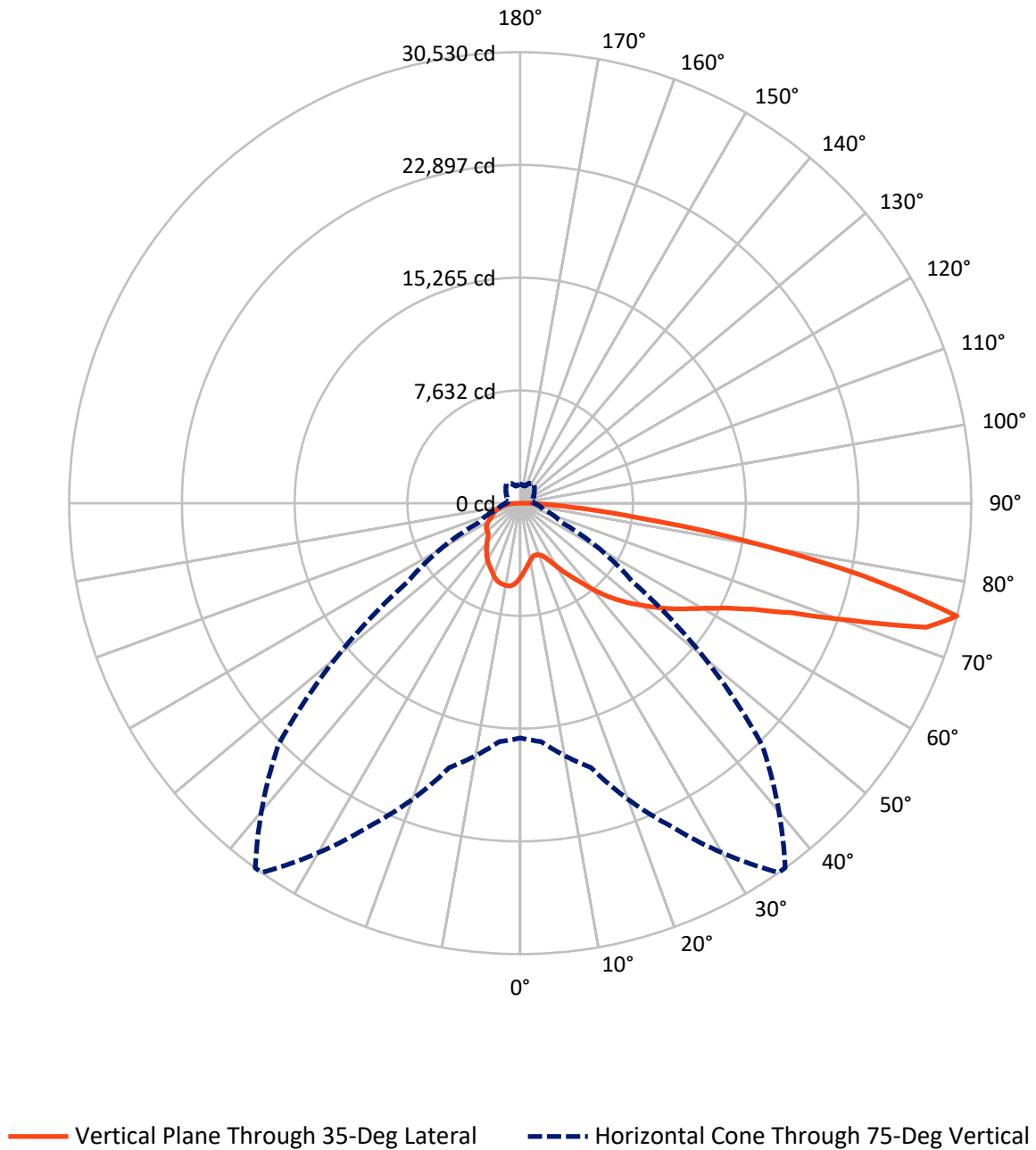


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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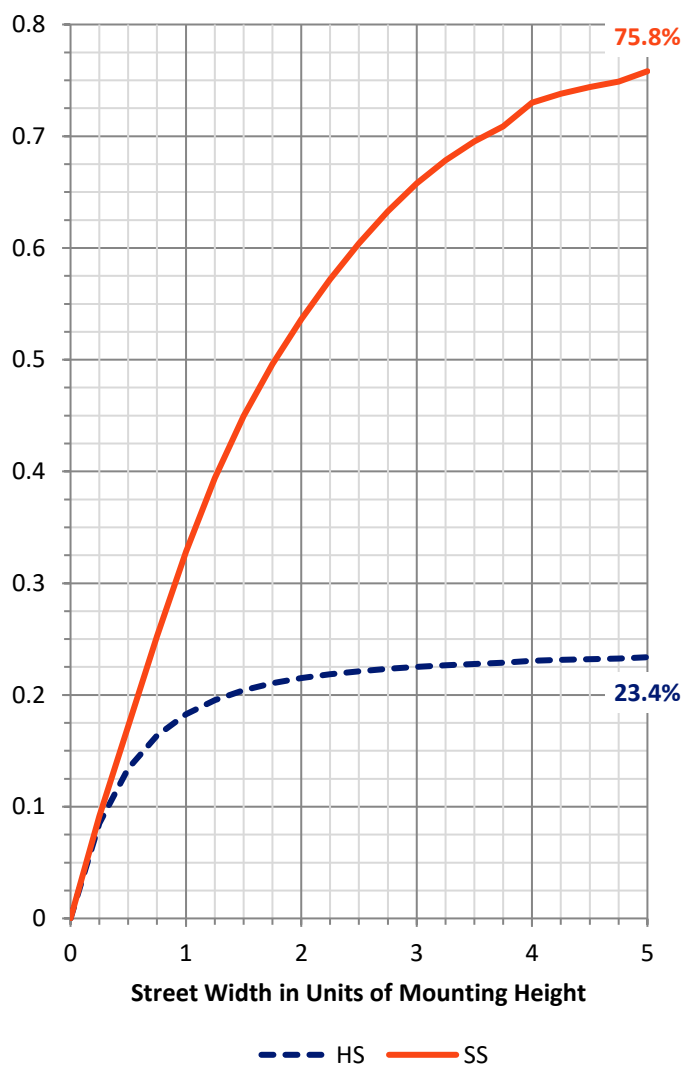
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8913.8	0.0	8913.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28543.2	0.0	28543.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	37457.0	0.0	37457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.6	1.3
10°-20°	1363.1	3.6
20°-30°	2289.1	6.1
30°-40°	3557.5	9.5
40°-50°	5280.3	14.1
50°-60°	7289.8	19.5
60°-70°	8844.2	23.6
70°-80°	7309.1	19.5
80°-90°	1051.3	2.8
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°	37457.0	100.0
0°-180°	37457.0	100.0

Coefficient of Utilization



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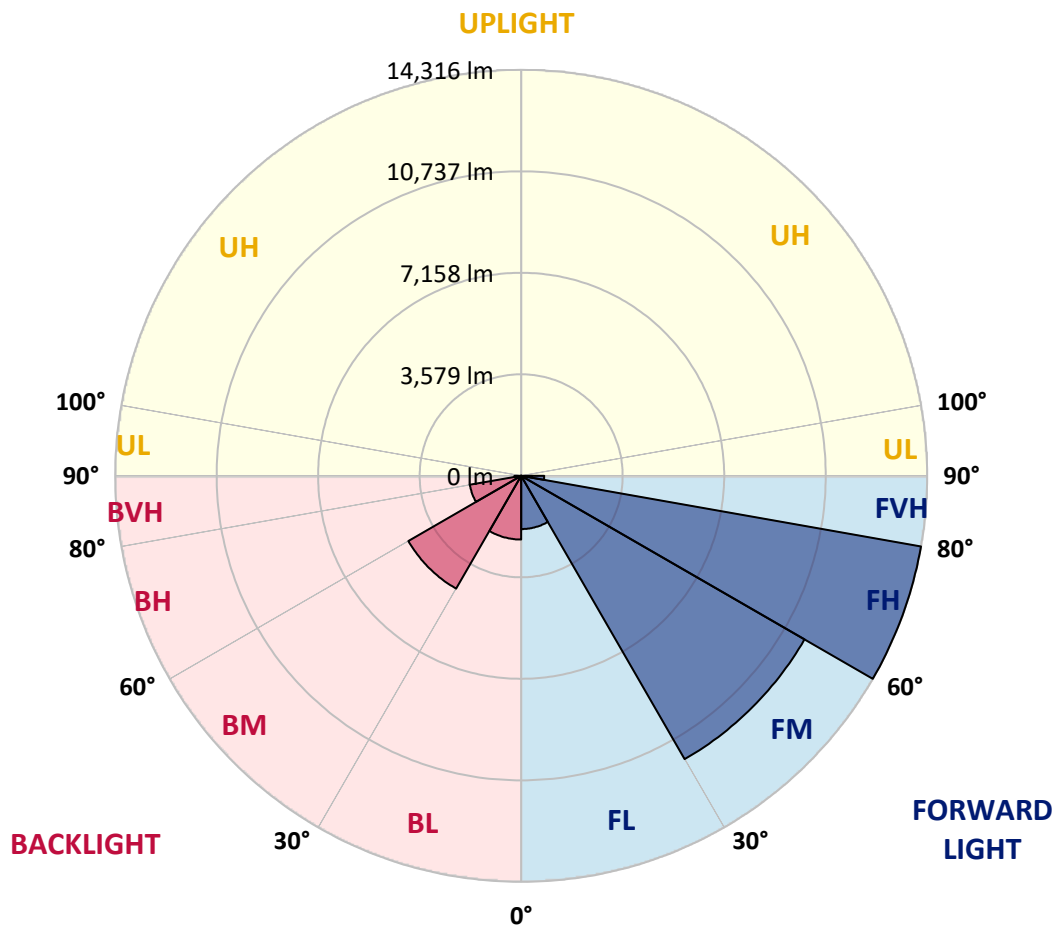
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1878.4	5.0			
FM	(30°-60°)	11534.7	30.8			
FH	(60°-80°)	14315.5	38.2			G5
FVH	(80°-90°)	814.5	2.2			G5
BL	(0°-30°)	2246.4	6.0	B3/2500		
BM	(30°-60°)	4592.9	12.3	B3/5000		
BH	(60°-80°)	1837.8	4.9	B3/2500		G3/2500
BVH	(80°-90°)	236.7	0.6			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4
2.5°	4602.6	4631.0	4643.1	4637.0	4667.4	4663.4	4705.9	4758.5	4831.4	4902.3	5005.6
5°	4248.3	4278.6	4305.0	4329.3	4388.0	4406.2	4473.0	4574.3	4707.9	4843.6	5013.7
7.5°	3918.2	3944.5	3985.0	4029.6	4128.8	4147.0	4258.4	4416.3	4602.6	4801.1	5035.9
10°	3648.9	3675.2	3717.7	3768.4	3891.9	3914.1	4055.9	4266.5	4509.5	4760.6	5060.2
12.5°	3533.5	3541.6	3565.9	3616.5	3723.8	3738.0	3893.9	4134.9	4418.3	4730.2	5096.7
15°	3527.4	3543.6	3545.6	3571.9	3661.0	3667.1	3810.9	4049.8	4361.7	4724.1	5151.4
17.5°	3588.1	3600.3	3582.1	3598.3	3673.2	3683.3	3796.7	4009.3	4343.4	4750.4	5244.5
20°	3750.1	3760.3	3705.6	3683.3	3738.0	3746.1	3857.5	4035.6	4361.7	4805.1	5372.1
22.5°	4094.4	4100.4	3966.8	3875.7	3879.7	3883.8	3981.0	4143.0	4432.5	4904.3	5534.1
25°	4631.0	4626.9	4414.3	4238.1	4136.9	4114.6	4179.4	4317.1	4552.0	5035.9	5742.6
27.5°	5258.7	5228.3	5015.7	4752.5	4531.7	4499.3	4485.2	4543.9	4722.1	5210.1	5997.8
30°	5967.4	5939.1	5710.2	5366.0	5060.2	5007.6	4874.0	4843.6	4975.2	5447.0	6352.1
32.5°	6745.0	6726.7	6453.4	6036.3	5627.2	5566.5	5341.7	5260.7	5364.0	5805.4	6846.2
35°	7397.0	7380.8	7154.0	6724.7	6224.6	6149.6	5920.8	5829.7	5882.4	6265.1	7492.2
37.5°	7986.2	7978.1	7783.7	7445.6	6929.2	6838.1	6581.0	6550.6	6540.5	6870.5	8275.8
40°	8533.0	8512.7	8310.2	8132.0	7749.3	7666.3	7439.5	7413.2	7336.2	7615.7	9162.7
42.5°	9138.4	9085.8	8792.2	8709.1	8605.9	8537.0	8401.3	8405.4	8235.3	8456.0	10102.3
45°	9632.5	9602.1	9300.4	9251.8	9363.2	9334.8	9452.3	9482.6	9152.6	9336.9	11078.3
47.5°	10163.0	10134.7	9879.5	9845.1	10146.8	10154.9	10570.0	10580.1	10047.6	10252.1	12056.3
50°	10817.1	10776.6	10523.4	10566.0	10904.1	10934.5	11693.8	11625.0	10871.7	11181.5	13026.2
52.5°	11248.4	11272.7	11218.0	11286.8	11748.5	11776.9	12799.4	12623.3	11687.8	12098.8	13977.9
55°	11566.3	11614.9	11785.0	11942.9	12639.5	12667.8	13842.3	13573.0	12364.1	12949.3	14873.0
57.5°	11975.3	11906.5	12224.4	12532.2	13485.9	13560.8	14856.8	14488.2	12963.5	13682.3	15486.5
60°	12562.5	12513.9	12761.0	13216.6	14433.5	14553.0	15930.0	15312.4	13402.9	14263.5	15606.0
62.5°	13753.2	13631.7	13670.2	14073.1	15628.2	15786.2	17140.8	16031.2	13621.6	14490.2	14966.1
65°	15533.1	15324.5	15130.1	15409.6	17310.9	17466.9	18507.7	16596.1	13540.6	14050.8	13267.2
67.5°	17774.6	17568.1	17329.2	17592.4	19789.4	19912.9	20194.4	16914.1	12902.7	12358.0	10264.3
70°	19623.4	19546.4	19832.0	20915.3	23748.1	23752.2	22357.0	16650.8	11155.2	8761.8	5939.1
72.5°	19378.4	19331.8	20836.3	24185.5	28737.5	28630.2	24404.2	14658.3	7514.4	3952.6	2225.4
75°	15897.6	16199.3	18529.9	24126.8	30529.5	30515.4	23150.8	9318.6	3108.2	1638.2	1150.1
77.5°	8524.9	9002.7	12030.0	17813.1	23833.2	24191.6	16276.2	3260.1	1334.4	1048.9	795.8
80°	2780.2	3197.3	4795.0	9069.6	15486.5	15419.7	6975.8	1279.7	913.2	743.1	550.8
82.5°	1180.5	1229.1	2142.4	4282.7	7947.8	7824.2	2221.3	735.0	641.9	508.3	340.2
85°	461.7	516.4	945.6	1980.4	3442.3	3367.4	801.9	364.5	411.1	332.1	202.5
87.5°	151.9	184.3	338.2	678.3	1071.2	1032.7	196.4	125.5	178.2	151.9	72.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4	4991.4
2.5°	5033.9	5066.3	5104.8	5161.5	5210.1	5250.6	5293.1	5319.4	5329.6	5359.9	5357.9
5°	5070.4	5141.2	5236.4	5329.6	5420.7	5475.4	5523.9	5548.2	5570.5	5586.7	5590.8
7.5°	5131.1	5222.2	5372.1	5493.6	5570.5	5615.1	5647.5	5639.4	5647.5	5651.5	5657.6
10°	5183.8	5311.3	5489.5	5604.9	5663.7	5665.7	5657.6	5629.2	5615.1	5617.1	5621.1
12.5°	5246.5	5388.3	5580.6	5677.8	5694.0	5649.5	5615.1	5566.5	5548.2	5540.1	5536.1
15°	5331.6	5493.6	5679.9	5716.3	5675.8	5619.1	5560.4	5481.4	5440.9	5408.5	5418.7
17.5°	5434.9	5613.0	5756.8	5730.5	5643.4	5550.3	5455.1	5335.6	5252.6	5218.2	5220.2
20°	5578.6	5738.6	5815.5	5700.1	5568.5	5426.8	5264.8	5119.0	5042.0	5007.6	5003.5
22.5°	5752.8	5906.7	5872.2	5647.5	5461.2	5234.4	5031.9	4924.6	4886.1	4861.8	4865.9
25°	5961.3	6092.9	5912.7	5570.5	5285.0	4979.2	4823.3	4788.9	4770.7	4752.5	4752.5
27.5°	6232.7	6303.5	5943.1	5457.1	5009.6	4707.9	4651.2	4657.3	4651.2	4620.8	4626.9
30°	6591.1	6576.9	5971.5	5272.9	4693.7	4462.9	4466.9	4493.3	4497.3	4477.1	4487.2
32.5°	7062.9	6919.1	5985.6	5033.9	4392.0	4248.3	4252.3	4280.7	4300.9	4266.5	4282.7
35°	7633.9	7318.0	5963.4	4734.2	4159.2	4043.7	4013.4	4021.5	4027.5	3995.1	4017.4
37.5°	8300.1	7765.5	5864.1	4402.2	3966.8	3843.3	3778.5	3723.8	3691.4	3661.0	3681.3
40°	9031.1	8253.5	5681.9	4078.2	3752.2	3630.7	3533.5	3430.2	3320.8	3280.4	3298.6
42.5°	9796.5	8755.7	5461.2	3768.4	3505.1	3405.9	3302.6	3152.8	2988.8	2905.7	2915.9
45°	10590.3	9270.0	5244.5	3462.6	3252.0	3209.5	3090.0	2909.8	2731.6	2626.3	2618.2
47.5°	11367.8	9756.0	4926.6	3154.8	3015.1	3061.7	2968.5	2802.5	2604.0	2438.0	2419.8
50°	12111.0	10211.6	4406.2	2843.0	2822.7	3017.1	2928.0	2689.1	2462.3	2249.7	2231.4
52.5°	12848.0	10580.1	3740.0	2559.5	2719.5	3005.0	2875.4	2612.1	2334.7	2112.0	2087.7
55°	13473.7	10770.5	3098.1	2316.5	2569.6	2901.7	2812.6	2521.0	2154.5	1917.6	1897.3
57.5°	13830.1	10616.6	2563.5	2077.6	2363.1	2731.6	2705.3	2326.6	1939.9	1757.6	1733.3
60°	13676.2	9992.9	2126.2	1869.0	2166.7	2547.3	2519.0	2134.3	1775.8	1603.7	1579.4
62.5°	12827.8	8804.3	1779.9	1686.7	1988.5	2359.0	2332.7	1986.4	1650.3	1484.3	1457.9
65°	11118.8	7162.1	1510.6	1534.9	1808.2	2132.2	2170.7	1862.9	1551.1	1389.1	1362.8
67.5°	8480.3	5187.8	1300.0	1403.3	1632.1	1909.5	2020.9	1773.8	1468.1	1314.2	1289.9
70°	4833.5	2946.2	1121.8	1275.7	1476.2	1702.9	1905.4	1702.9	1379.0	1251.4	1235.2
72.5°	1832.5	1352.6	969.9	1148.1	1326.3	1528.8	1777.9	1591.6	1275.7	1180.5	1164.3
75°	978.0	824.1	816.0	998.3	1154.2	1358.7	1617.9	1482.2	1198.7	1247.3	1287.8
77.5°	666.2	583.2	682.4	854.5	965.9	1170.4	1447.8	1316.2	1038.8	1034.7	953.7
80°	461.7	413.1	554.8	688.5	747.2	984.1	1263.5	1129.9	846.4	789.7	755.3
82.5°	277.4	269.3	415.1	514.3	528.5	759.3	1046.9	947.7	692.5	603.4	607.5
85°	151.9	160.0	265.3	301.7	307.8	530.5	820.1	733.0	532.6	447.5	451.6
87.5°	42.5	54.7	97.2	119.5	147.8	275.4	488.0	435.4	267.3	186.3	186.3
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)