

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: P957354

Luminaire Tested: **GALN-SB9D-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957354
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-SB9D-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 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: 84022 lumens
Efficiency: N/A
Efficacy: 127.7 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): 658
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

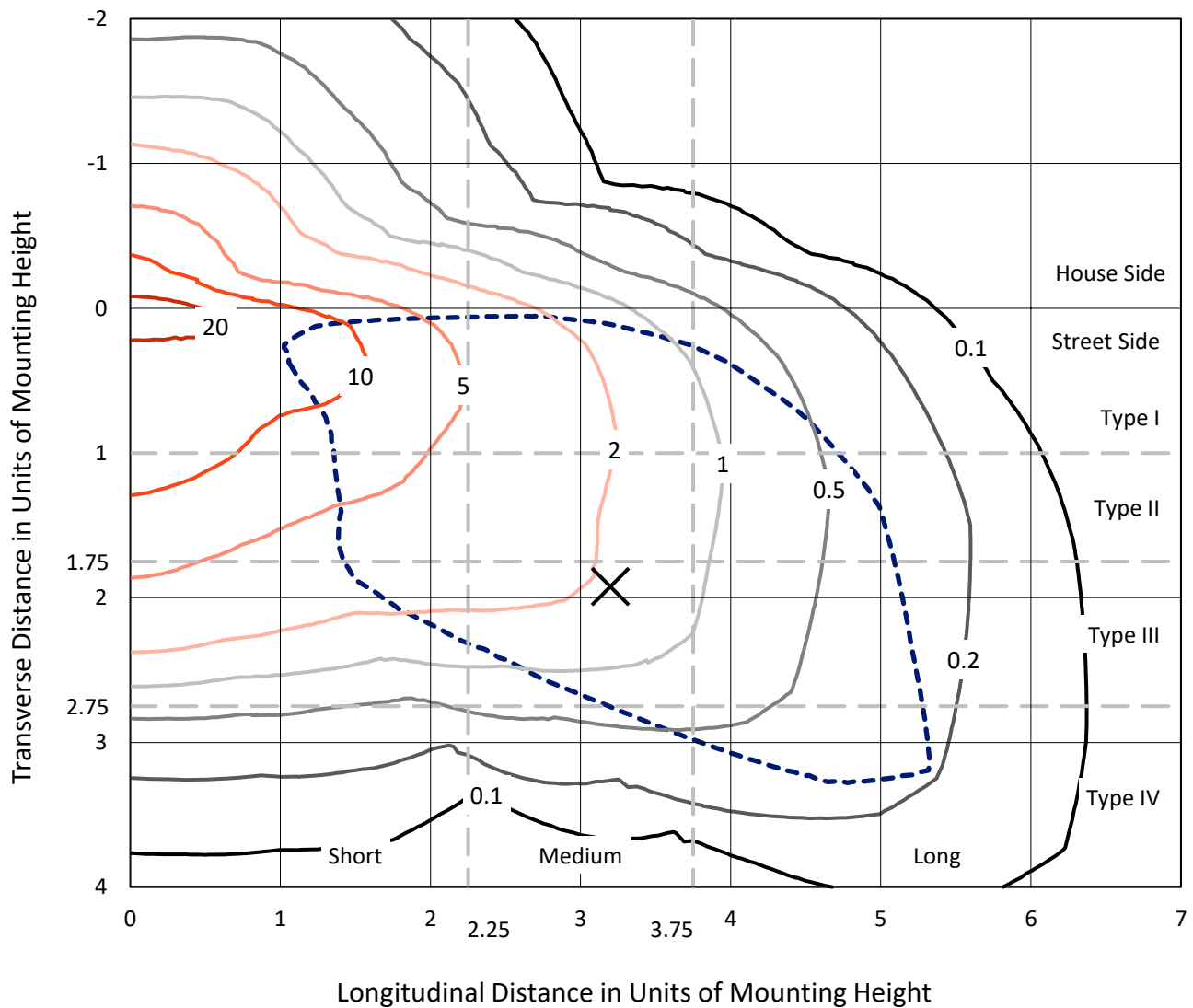


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

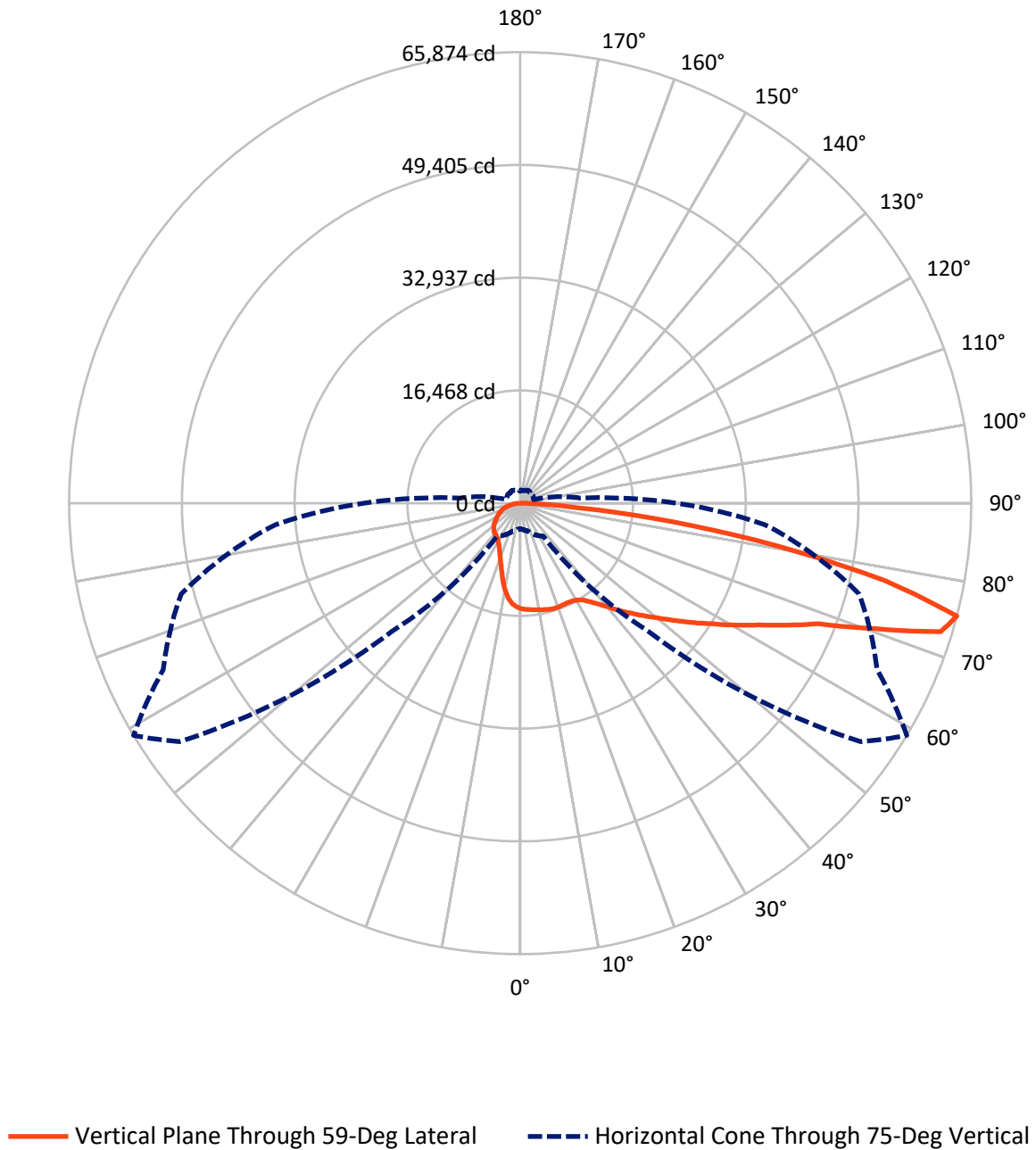


Based on 25 foot mounting height. Maximum calculated value = 24.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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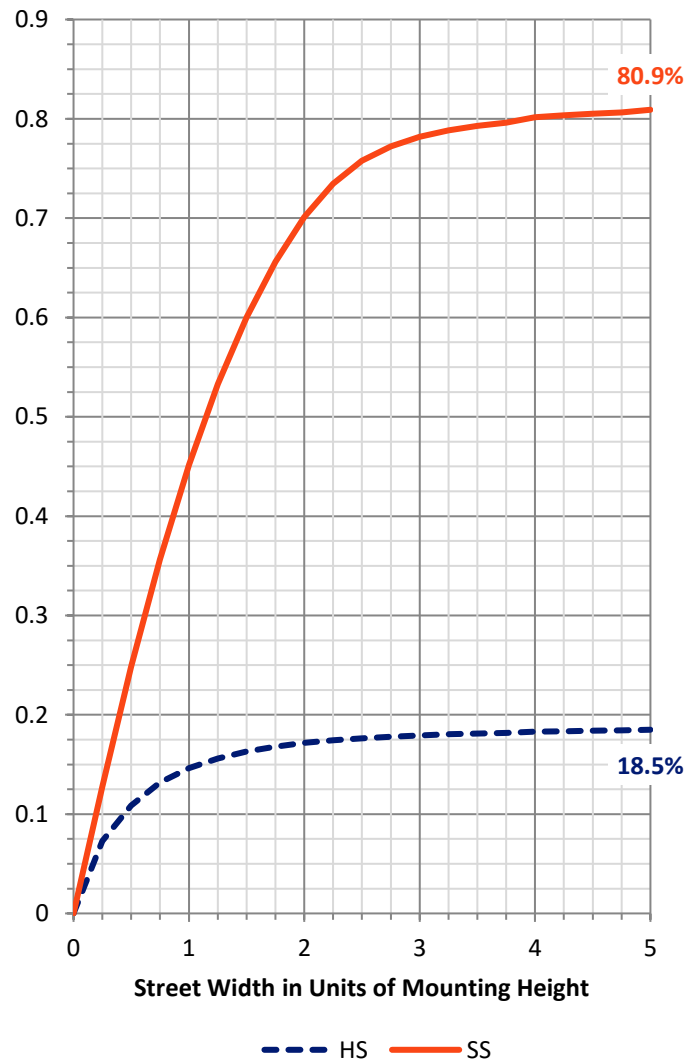
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15758.9	0.0	15758.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	68263.1	0.0	68263.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	84022.0	0.0	84022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1382.8	1.6
10°-20°	3534.6	4.2
20°-30°	5368.8	6.4
30°-40°	7980.6	9.5
40°-50°	11868.5	14.1
50°-60°	16110.1	19.2
60°-70°	19667.8	23.4
70°-80°	15435.0	18.4
80°-90°	2673.7	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°	84022.0	100.0
0°-180°	84022.0	100.0

Coefficient of Utilization



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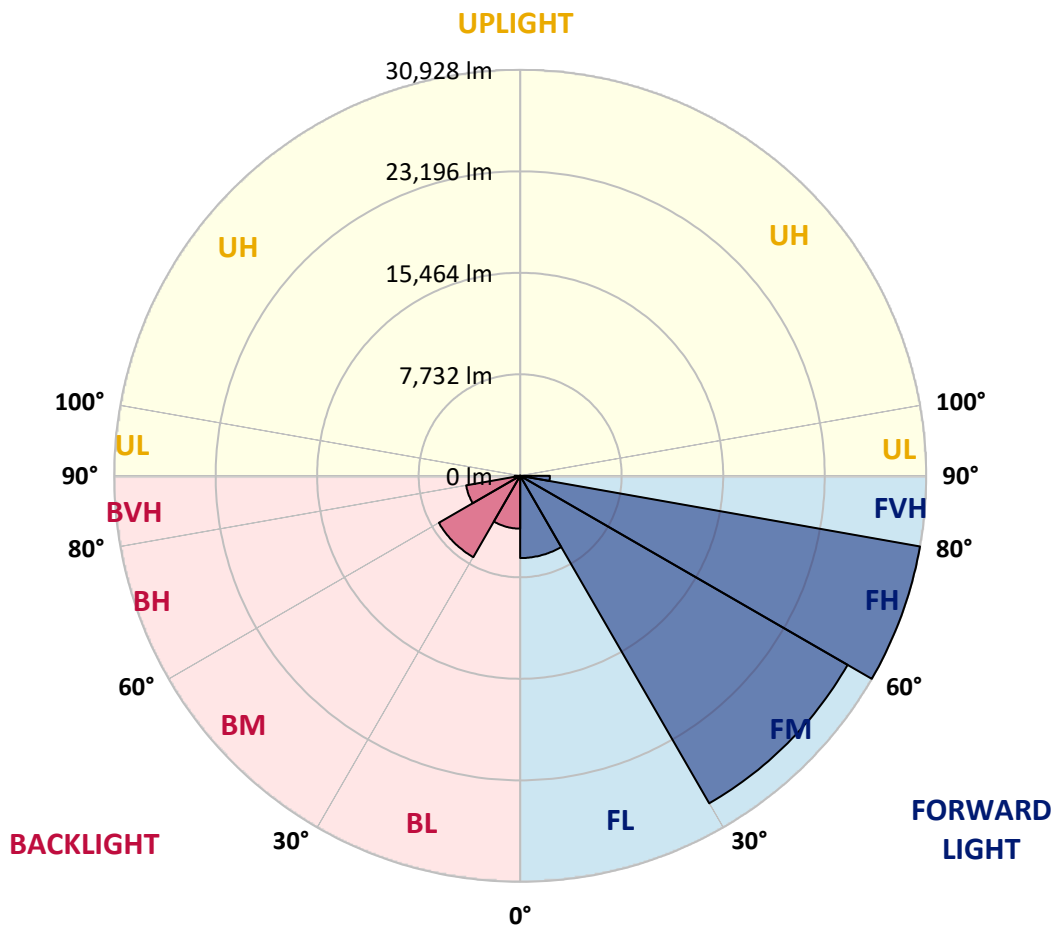
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6264.8	7.5			
FM	(30°-60°)	28806.2	34.3			
FH	(60°-80°)	30927.7	36.8			G5
FVH	(80°-90°)	2264.4	2.7			G5
BL	(0°-30°)	4021.5	4.8	B4/5000		
BM	(30°-60°)	7153.0	8.5	B4/8500		
BH	(60°-80°)	4175.1	5.0	B4/5000		G4/5000
BVH	(80°-90°)	409.3	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°	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1
2.5°	15553.1	15498.9	15553.1	15530.5	15521.5	15503.4	15507.9	15539.6	15521.5	15544.1	15467.3
5°	15449.2	15417.5	15471.8	15458.2	15517.0	15526.0	15584.8	15620.9	15643.5	15648.0	15589.3
7.5°	15277.4	15245.8	15322.6	15385.9	15512.4	15548.6	15670.6	15729.4	15761.0	15815.3	15729.4
10°	14649.1	14635.6	14825.4	15065.0	15363.3	15548.6	15733.9	15833.4	15883.1	16027.7	15928.3
12.5°	13537.2	13555.3	13803.9	14264.9	14861.6	15458.2	15806.2	15950.9	16027.7	16208.5	16163.3
15°	12475.0	12470.5	12741.7	13234.4	14070.6	15060.5	15842.4	16091.0	16222.1	16488.8	16452.6
17.5°	11860.3	11842.3	12032.1	12407.2	13184.7	14450.3	15752.0	16167.8	16448.1	16782.6	16750.9
20°	11747.3	11711.2	11810.6	11995.9	12547.4	13781.3	15517.0	16167.8	16628.9	17062.8	17044.7
22.5°	12158.7	12099.9	12059.2	12036.6	12280.7	13229.9	15250.3	16113.6	16895.6	17465.1	17433.4
25°	12985.8	12895.4	12687.5	12484.1	12411.8	12981.3	15015.3	16100.0	17293.3	18007.5	17889.9
27.5°	14323.7	14210.7	13790.4	13302.2	12863.8	13107.8	14911.3	16181.4	17731.7	18581.5	18346.5
30°	15982.5	15860.5	15331.7	14581.3	13794.9	13577.9	15042.4	16421.0	18292.2	19345.4	18884.3
32.5°	17469.6	17334.0	16882.0	16118.1	15055.9	14391.5	15458.2	16877.5	19173.6	20407.5	19693.4
35°	18789.4	18631.2	18224.4	17519.3	16601.8	15535.0	16208.5	17686.5	20425.6	22134.2	20791.7
37.5°	20082.1	19896.8	19453.8	18708.1	18066.2	17058.3	17243.6	18726.1	22089.0	24231.4	22247.2
40°	21528.5	21261.8	20723.9	19987.2	19363.4	18843.6	18604.1	20000.8	23779.4	26572.8	24064.2
42.5°	22929.7	22676.6	22034.7	21406.5	20624.5	20475.3	20181.6	21492.3	25628.1	29144.6	25908.3
45°	24439.3	24136.5	23359.1	22563.6	22070.9	21560.1	21709.3	22983.9	27440.6	31766.2	27842.9
47.5°	25854.1	25515.1	24597.5	23711.6	23440.4	22473.2	23110.5	24624.7	29325.4	34423.9	29759.3
50°	26618.0	26283.5	25519.6	24719.6	24507.1	23598.6	24629.2	26428.1	31300.6	37072.6	31598.9
52.5°	27255.3	26893.7	25894.8	25451.8	25388.5	24823.5	26500.4	28489.2	33275.8	39413.9	33375.3
55°	27933.3	27531.0	26256.4	25858.6	26147.9	26197.6	28719.7	30826.0	35364.0	41696.5	35052.2
57.5°	28715.2	28204.5	26604.4	26202.1	26889.2	27806.7	31269.0	33248.7	37416.1	43811.8	36543.8
60°	29452.0	28936.7	27273.3	26749.0	27689.2	29673.4	34193.4	36182.2	39739.4	45696.6	37954.0
62.5°	29596.6	29171.7	27806.7	27802.2	28774.0	31852.0	37655.7	39142.7	41768.8	47558.9	39219.6
65°	27092.5	26825.9	26016.8	27761.5	30328.8	34988.9	41511.2	42930.4	44349.7	49186.0	40331.5
67.5°	20620.0	20656.1	20597.4	23964.7	29072.3	39495.3	47093.3	46984.8	47536.3	51012.1	41610.6
70°	9428.6	9641.0	11024.1	16543.0	23291.3	40015.1	56323.0	54917.3	51536.4	53376.0	42718.0
72.5°	5094.0	5256.7	5821.7	8013.9	14002.8	35576.5	63220.5	64219.4	56856.4	54967.0	41502.1
75°	3738.0	3828.4	4221.6	5094.0	5880.4	26441.7	60748.1	65873.7	57520.8	51256.2	35838.6
77.5°	2797.8	2838.5	3159.4	4036.3	3010.3	13939.5	48539.7	54555.7	49240.3	42112.3	26473.3
80°	2029.5	2074.7	2314.2	3028.4	2110.8	5098.5	33330.1	38293.0	33723.3	26844.0	13193.7
82.5°	1401.2	1419.3	1523.2	2061.1	1473.5	1979.7	18911.4	22455.1	18825.6	9419.6	3561.7
85°	845.2	867.8	913.0	1202.3	836.2	940.1	8163.0	8443.3	5627.3	2250.9	1107.4
87.5°	348.0	370.6	406.8	506.2	330.0	262.2	1346.9	1690.5	1053.1	659.9	343.5
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°	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1	15422.1
2.5°	15444.7	15413.0	15327.1	15209.6	15101.1	14965.5	14906.8	14857.1	14811.9	14726.0	14685.3
5°	15539.6	15453.7	15223.2	14924.9	14585.9	14215.2	13853.6	13605.0	13392.6	13234.4	13103.3
7.5°	15684.2	15521.5	15101.1	14490.9	13713.5	12918.0	12199.3	11688.6	11304.4	11164.3	10920.2
10°	15833.4	15639.0	14906.8	13831.0	12488.6	11263.7	10310.0	9785.7	9478.3	9378.9	9225.2
12.5°	16009.6	15724.9	14603.9	12913.5	11119.1	9776.6	8945.0	8637.6	8479.4	8425.2	8438.7
15°	16267.3	15797.2	14147.4	11765.4	9812.8	8691.9	8154.0	7941.5	7860.2	7855.7	7873.7
17.5°	16461.6	15810.8	13437.8	10536.0	8809.4	8036.5	7593.5	7512.1	7566.4	7647.7	7679.4
20°	16678.6	15688.7	12506.7	9415.0	8104.3	7462.4	7277.1	7331.4	7462.4	7579.9	7620.6
22.5°	16832.3	15467.3	11381.2	8542.7	7494.1	7132.5	7123.4	7236.4	7308.8	7367.5	7399.1
25°	16967.9	15092.1	10188.0	7810.5	6992.4	6933.6	7033.0	6996.9	6947.2	6996.9	7028.5
27.5°	17067.3	14500.0	9121.2	7168.6	6639.8	6798.0	6739.2	6657.9	6653.4	6680.5	6725.7
30°	17035.7	13709.0	8244.4	6558.4	6391.2	6544.9	6404.8	6391.2	6377.6	6391.2	6440.9
32.5°	17035.7	12809.5	7570.9	6138.1	6233.0	6174.2	6160.7	6129.0	6074.8	6070.3	6129.0
35°	17130.6	11910.1	6992.4	5912.1	6101.9	5961.8	5970.8	5894.0	5781.0	5726.8	5781.0
37.5°	17324.9	11186.9	6418.3	5803.6	5871.4	5866.9	5830.7	5699.7	5500.8	5329.0	5387.8
40°	17795.0	10974.4	6025.1	5753.9	5762.9	5817.2	5722.2	5469.1	5017.1	4736.9	4773.1
42.5°	18531.8	11331.5	5939.2	5631.9	5690.6	5744.8	5559.5	4971.9	4651.0	4483.8	4483.8
45°	19467.4	11955.3	6124.5	5455.6	5518.9	5613.8	5062.3	4782.1	4637.5	4642.0	4664.6
47.5°	20651.6	12610.6	6468.0	5301.9	5270.3	5324.5	4732.4	4560.6	4361.7	4411.5	4538.0
50°	22021.2	13275.1	6793.5	5094.0	4994.5	4818.3	4519.9	4357.2	4104.1	3986.6	4018.2
52.5°	23503.7	13916.9	6924.6	4840.9	4696.2	4492.8	4375.3	4176.4	3869.1	3674.7	3670.2
55°	24909.4	14500.0	6779.9	4538.0	4397.9	4239.7	4221.6	4099.6	3769.6	3498.4	3498.4
57.5°	26238.3	14988.1	6418.3	4230.7	4095.1	4000.2	4122.2	4063.4	3647.6	3299.6	3281.5
60°	27363.7	15322.6	5894.0	3918.8	3823.9	3774.2	3959.5	3941.4	3475.8	3087.1	3073.6
62.5°	28258.7	15453.7	5315.5	3620.5	3597.9	3507.5	3733.5	3733.5	3258.9	2879.2	2865.6
65°	28959.3	15327.1	4727.9	3326.7	3371.9	3236.3	3457.8	3430.6	3028.4	2693.9	2675.8
67.5°	29578.5	14911.3	4077.0	3037.4	3141.4	2969.6	3168.5	3105.2	2775.2	2508.6	2490.5
70°	29854.2	13944.0	3335.7	2748.1	2874.7	2707.4	2879.2	2761.7	2490.5	2309.7	2273.5
72.5°	27639.5	11589.1	2626.1	2445.3	2553.8	2418.2	2567.3	2431.7	2183.1	2101.8	2034.0
75°	22866.4	8696.4	2020.4	2115.3	2196.7	2092.7	2192.2	2092.7	1866.7	1925.5	1758.3
77.5°	16606.3	5871.4	1545.8	1767.3	1803.5	1749.2	1835.1	1722.1	1518.7	1505.1	1437.3
80°	8257.9	3439.7	1211.3	1396.7	1383.1	1346.9	1446.4	1392.1	1220.4	1292.7	1279.1
82.5°	2391.1	1473.5	881.4	980.8	953.7	962.7	1035.1	1062.2	1591.0	1577.5	1613.6
85°	750.3	578.6	528.8	546.9	519.8	533.4	610.2	1211.3	1120.9	655.4	709.6
87.5°	194.4	198.9	131.1	140.1	144.6	171.8	194.4	736.8	352.6	230.5	244.1
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)