

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: P943142

Luminaire Tested: **GALN-SB7C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48969 lumens
Efficiency: N/A
Efficacy: 139.7 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): 350.5
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

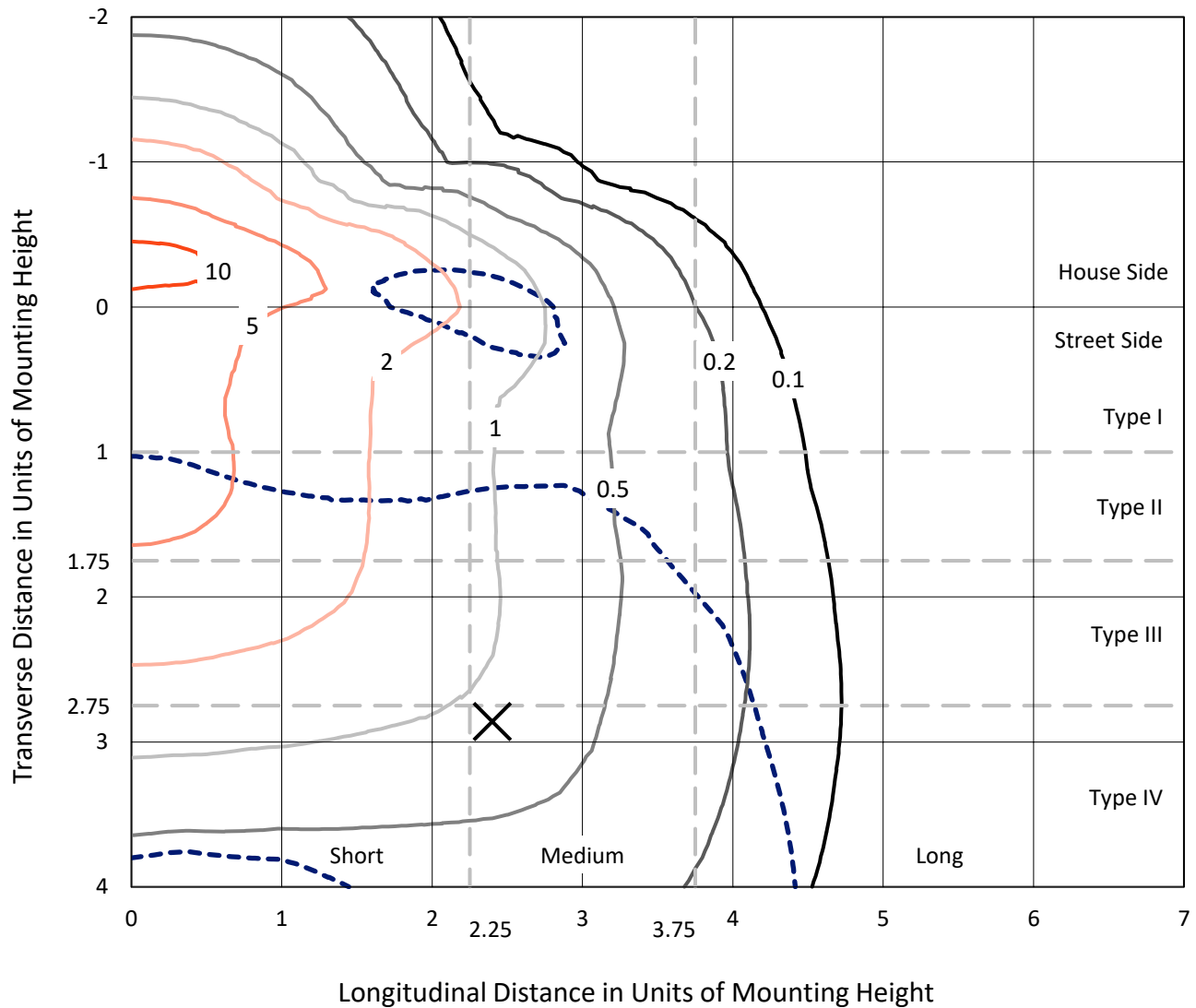


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

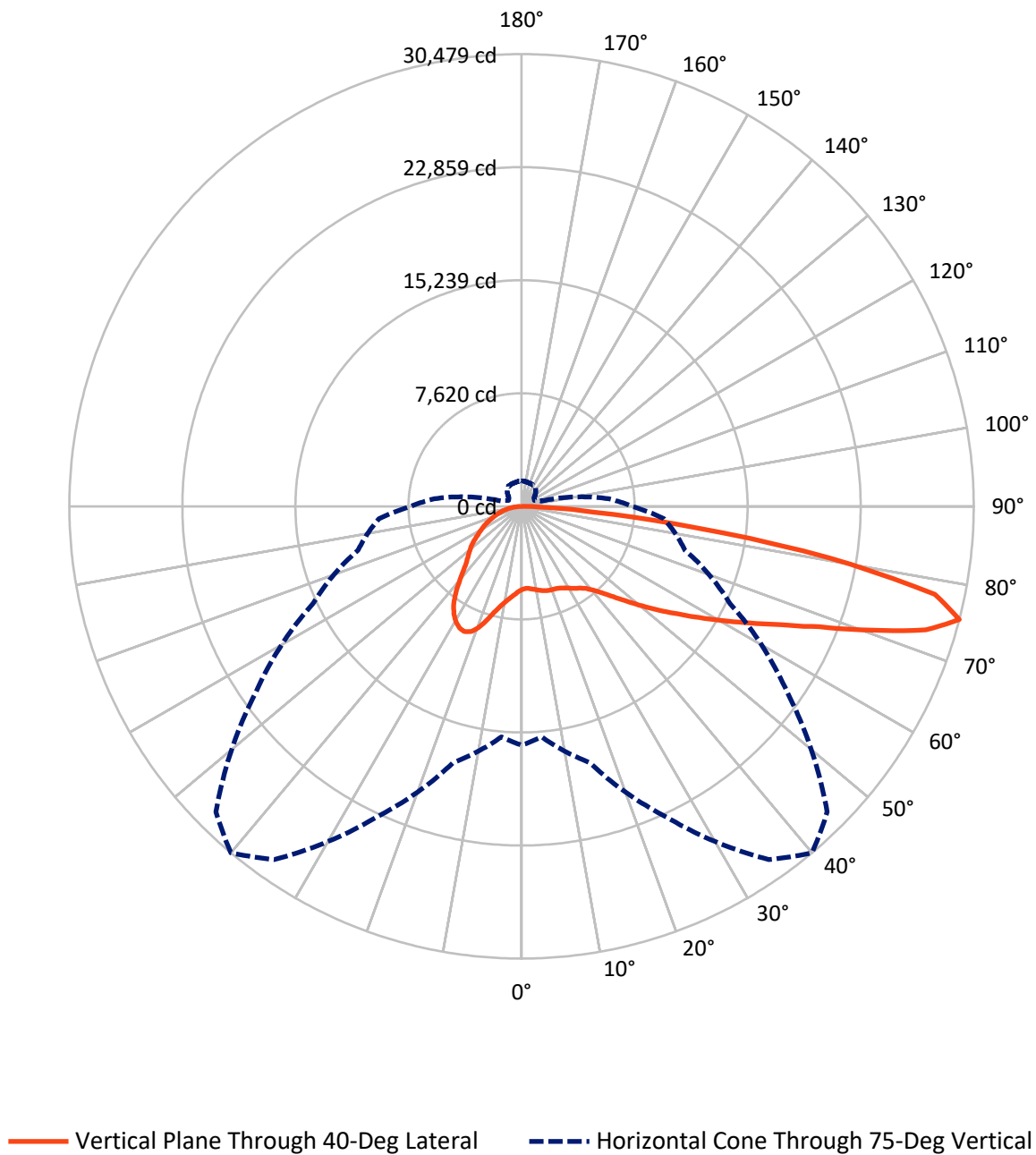


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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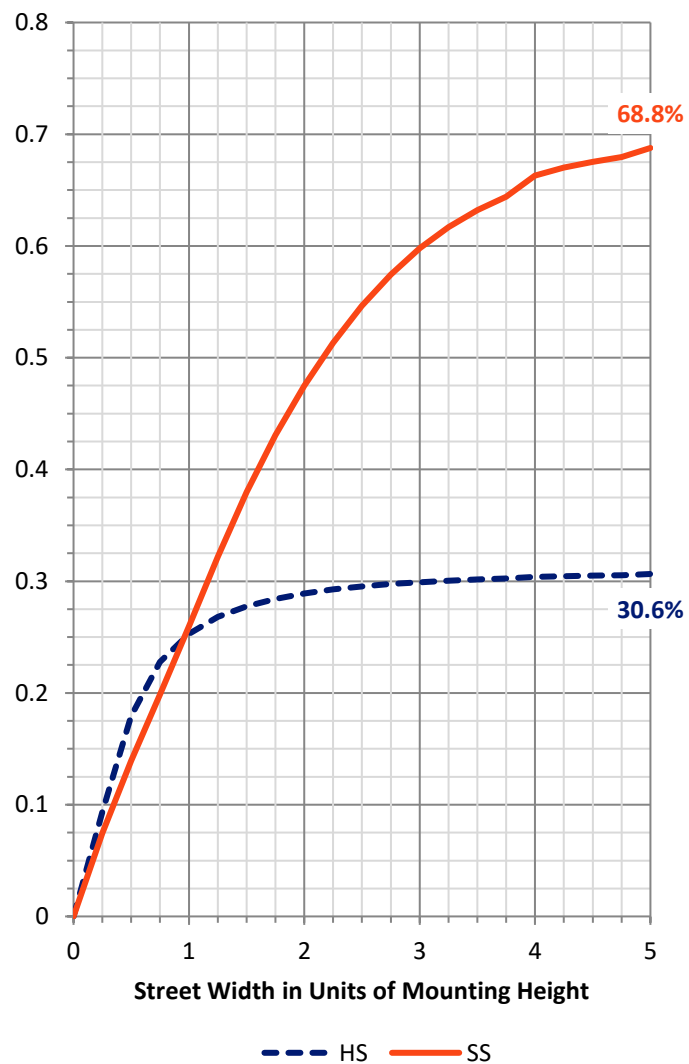
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15172.2	0.0	15172.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	33796.8	0.0	33796.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	48969.0	0.0	48969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.0	1.1
10°-20°	1876.7	3.8
20°-30°	3426.6	7.0
30°-40°	4859.9	9.9
40°-50°	6562.3	13.4
50°-60°	8828.1	18.0
60°-70°	11204.9	22.9
70°-80°	10169.1	20.8
80°-90°	1482.3	3.0
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°	48969.0	100.0
0°-180°	48969.0	100.0

Coefficient of Utilization



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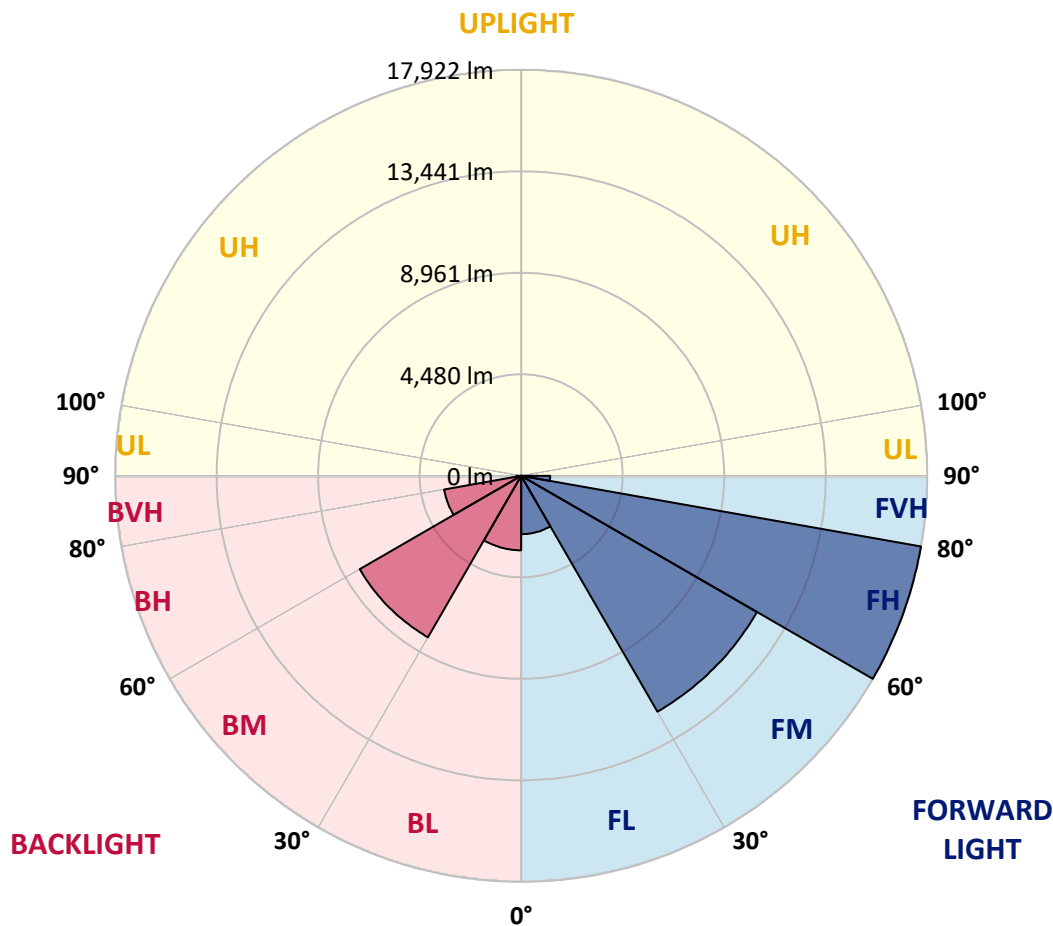
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2575.8	5.3			
FM	(30°-60°)	12020.8	24.5			
FH	(60°-80°)	17921.9	36.6			G5
FVH	(80°-90°)	1278.3	2.6			G5
BL	(0°-30°)	3286.4	6.7	B4/5000		
BM	(30°-60°)	8229.6	16.8	B4/8500		
BH	(60°-80°)	3452.1	7.0	B4/5000		G4/5000
BVH	(80°-90°)	204.1	0.4			G2/225
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°	40°	45°	55°	65°	75°	85°
0°	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7
2.5°	5514.0	5545.1	5537.3	5526.9	5526.9	5529.5	5526.9	5545.1	5563.3	5581.5	5610.1
5°	5571.1	5602.3	5586.7	5573.7	5563.3	5560.7	5552.9	5550.3	5560.7	5584.1	5623.0
7.5°	5682.8	5713.9	5690.6	5667.2	5646.4	5636.0	5625.6	5610.1	5602.3	5615.3	5669.8
10°	5807.5	5838.6	5810.0	5768.5	5734.7	5721.7	5711.4	5695.8	5685.4	5693.2	5752.9
12.5°	5932.1	5963.3	5924.3	5867.2	5823.0	5815.2	5802.3	5797.1	5794.5	5791.9	5851.6
15°	6049.0	6075.0	6025.6	5958.1	5911.3	5898.4	5885.4	5893.2	5906.1	5921.7	5989.3
17.5°	6139.9	6165.9	6093.1	6004.8	5960.7	5955.5	5947.7	5973.7	6010.0	6049.0	6132.1
20°	6223.0	6249.0	6155.5	6036.0	5984.1	5984.1	5986.7	6041.2	6093.1	6150.3	6264.6
22.5°	6339.9	6360.7	6246.4	6082.8	6007.4	6012.6	6033.4	6088.0	6152.9	6230.8	6389.2
25°	6513.9	6529.5	6389.2	6171.1	6085.4	6100.9	6119.1	6145.1	6207.4	6298.3	6511.3
27.5°	6794.4	6807.4	6623.0	6326.9	6197.0	6223.0	6249.0	6230.8	6259.4	6337.3	6610.0
30°	7189.2	7197.0	6963.2	6571.0	6386.6	6399.6	6404.8	6329.5	6275.0	6337.3	6680.1
32.5°	7656.7	7654.1	7376.2	6867.1	6602.2	6589.2	6545.1	6397.0	6269.8	6324.3	6742.5
35°	8381.3	8352.8	7994.3	7282.7	6846.4	6765.8	6661.9	6472.3	6295.7	6311.3	6797.0
37.5°	9581.3	9492.9	8996.9	7963.2	7210.0	7004.8	6851.5	6594.4	6352.9	6306.1	6861.9
40°	10934.4	10822.7	10277.3	8895.6	7755.4	7425.5	7178.8	6768.4	6446.4	6329.5	6958.0
42.5°	12539.5	12381.1	11794.1	9994.2	8446.3	7968.4	7597.0	6989.2	6584.0	6404.8	7087.9
45°	14510.8	14300.5	13469.3	11233.1	9316.3	8680.0	8183.9	7324.2	6794.4	6550.3	7282.7
47.5°	16502.9	16554.9	15373.1	12651.2	10360.4	9557.9	8919.0	7828.1	7100.9	6784.0	7597.0
50°	18619.7	18656.0	17266.5	14222.5	11544.8	10550.0	9744.9	8391.7	7526.8	7116.5	8067.1
52.5°	20271.5	20276.7	18985.9	15866.6	12778.5	11640.9	10635.7	9035.8	8020.3	7558.0	8693.0
55°	21305.2	21292.3	20191.0	17422.4	14196.6	12786.3	11622.7	9768.3	8622.9	8077.4	9480.0
57.5°	22055.8	22016.9	21022.1	18759.9	15708.2	14139.4	12739.5	10599.4	9334.5	8695.6	10516.3
60°	22341.5	22318.2	21585.7	19915.7	17297.7	15635.4	14027.7	11529.2	10142.3	9425.4	11848.7
62.5°	22450.6	22494.8	22139.0	21035.1	18998.9	17292.5	15443.2	12640.8	11051.3	10251.3	13253.8
65°	22835.0	22915.5	22842.8	22500.0	20920.8	19232.6	17321.1	13962.8	12043.4	11137.0	14721.2
67.5°	23596.0	23676.5	23707.7	24253.1	23268.8	21650.7	19663.8	15609.5	13204.4	12056.4	15825.0
70°	23577.8	23554.5	24105.1	25647.8	26208.8	24998.5	22822.0	17635.3	14588.8	12820.0	15965.3
72.5°	21461.1	21274.1	22575.3	25632.3	28655.5	28494.4	26678.9	20248.2	15783.5	12913.5	13853.7
75°	16100.4	15601.7	17900.2	23099.9	29063.2	30478.7	29130.8	21868.8	15500.4	11409.7	9641.0
77.5°	6885.3	6384.0	9093.0	17100.3	26011.5	28491.8	26881.5	19079.4	12373.3	7545.0	4734.8
80°	1802.5	1799.9	2747.9	7752.8	17689.9	21040.3	18458.7	12321.4	7069.7	2695.9	1306.4
82.5°	745.4	727.2	1010.3	3015.4	8643.6	11807.1	9635.8	5495.8	2553.1	729.8	433.7
85°	277.9	275.3	490.9	1041.5	3049.2	4869.8	3524.5	1405.1	636.3	355.8	194.8
87.5°	77.9	75.3	106.5	361.0	742.8	1127.2	602.6	231.2	179.2	140.3	57.1
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°	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7	5599.7
2.5°	5617.9	5630.8	5654.2	5672.4	5695.8	5721.7	5758.1	5781.5	5804.9	5820.4	5810.0
5°	5641.2	5669.8	5729.5	5789.3	5859.4	5924.3	5999.6	6054.2	6098.3	6111.3	6116.5
7.5°	5693.2	5739.9	5841.2	5942.5	6054.2	6160.7	6269.8	6363.3	6438.6	6467.2	6469.7
10°	5784.1	5846.4	5989.3	6132.1	6280.1	6443.8	6584.0	6719.1	6825.6	6869.7	6872.3
12.5°	5898.4	5976.3	6163.3	6360.7	6565.8	6791.8	6973.6	7139.8	7272.3	7332.0	7332.0
15°	6046.4	6147.7	6386.6	6651.6	6952.8	7267.1	7498.3	7682.7	7830.7	7903.4	7898.2
17.5°	6207.4	6342.5	6643.8	7043.7	7474.9	7887.8	8158.0	8293.0	8446.3	8516.4	8513.8
20°	6363.3	6529.5	6960.6	7542.4	8116.4	8555.3	8773.5	8809.9	8820.3	8828.1	8848.8
22.5°	6524.3	6747.7	7358.0	8170.9	8786.5	9090.4	9121.5	8965.7	8747.5	8646.2	8674.8
25°	6700.9	6997.0	7877.5	8864.4	9363.1	9399.4	9160.5	8781.3	8368.3	8178.7	8207.3
27.5°	6872.3	7285.3	8500.8	9526.7	9778.6	9459.2	8944.9	8407.3	7908.6	7708.6	7732.0
30°	7043.7	7615.1	9189.1	10105.9	9968.2	9311.1	8604.7	8004.7	7503.5	7293.1	7316.5
32.5°	7217.8	7999.5	9981.2	10524.1	9934.5	8996.9	8181.3	7552.8	7111.3	6890.5	6919.1
35°	7415.1	8472.2	10731.8	10752.6	9708.5	8534.6	7622.9	7012.6	6628.2	6451.6	6490.5
37.5°	7672.3	9072.2	11394.1	10809.8	9313.7	7856.7	6929.5	6373.7	6056.8	5976.3	6033.4
40°	7991.7	9794.2	11900.6	10718.8	8729.4	7033.4	6171.1	5726.9	5547.7	5565.9	5628.2
42.5°	8407.3	10602.0	12256.4	10485.1	7916.4	6184.1	5506.2	5308.8	5394.5	5467.2	5534.7
45°	8947.5	11440.9	12477.2	10087.7	6997.0	5464.6	5114.0	5160.7	5225.7	5233.5	5285.4
47.5°	9638.4	12290.2	12622.6	9487.8	6059.4	4958.1	4864.6	4875.0	4862.1	4807.5	4849.1
50°	10500.7	13116.1	12752.5	8693.0	5262.0	4641.3	4516.6	4480.3	4301.0	4124.4	4147.8
52.5°	11482.4	13874.5	12807.0	7706.0	4641.3	4376.4	4173.8	3945.2	3610.2	3555.6	3573.8
55°	12573.3	14575.8	12666.8	6493.1	4119.2	4036.1	3729.7	3454.3	3418.0	3371.2	3379.0
57.5°	13877.1	15331.6	12381.1	5140.0	3584.2	3638.7	3340.1	3371.2	3306.3	3233.6	3220.6
60°	15303.0	16113.3	11879.8	3906.3	3031.0	3142.7	3238.8	3236.2	3218.0	3158.3	3137.5
62.5°	16586.0	16627.6	10892.9	2992.0	2545.3	2758.3	3020.6	3018.0	3002.4	2968.7	2955.7
65°	17349.6	16549.7	9246.2	2355.7	2145.3	2441.4	2724.5	2745.3	2747.9	2745.3	2745.3
67.5°	17214.6	15638.0	6986.6	1875.2	1815.5	2119.4	2431.0	2459.6	2480.4	2485.6	2490.8
70°	15687.4	13635.6	4555.6	1496.0	1522.0	1836.3	2153.1	2181.7	2199.9	2220.6	2231.0
72.5°	12227.9	10025.4	2607.6	1210.3	1264.9	1592.1	1877.8	1911.6	1922.0	1960.9	1976.5
75°	7451.5	5895.8	1407.7	953.2	1038.9	1361.0	1605.1	1644.1	1662.2	1709.0	1714.2
77.5°	3542.6	2553.1	802.6	742.8	836.3	1111.6	1355.8	1399.9	1350.6	1376.5	1355.8
80°	1197.3	948.0	506.5	566.2	638.9	867.5	1085.7	1129.8	1025.9	1020.7	1010.3
82.5°	418.2	384.4	322.1	376.6	413.0	620.7	820.7	877.9	763.6	761.0	724.6
85°	163.6	155.8	179.2	205.2	246.7	381.8	540.2	568.8	470.1	379.2	374.0
87.5°	33.8	36.4	44.2	46.8	75.3	132.5	194.8	238.9	189.6	161.0	148.0
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)