

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: P955924

Luminaire Tested: **GALN-SB8D-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75860 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - 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



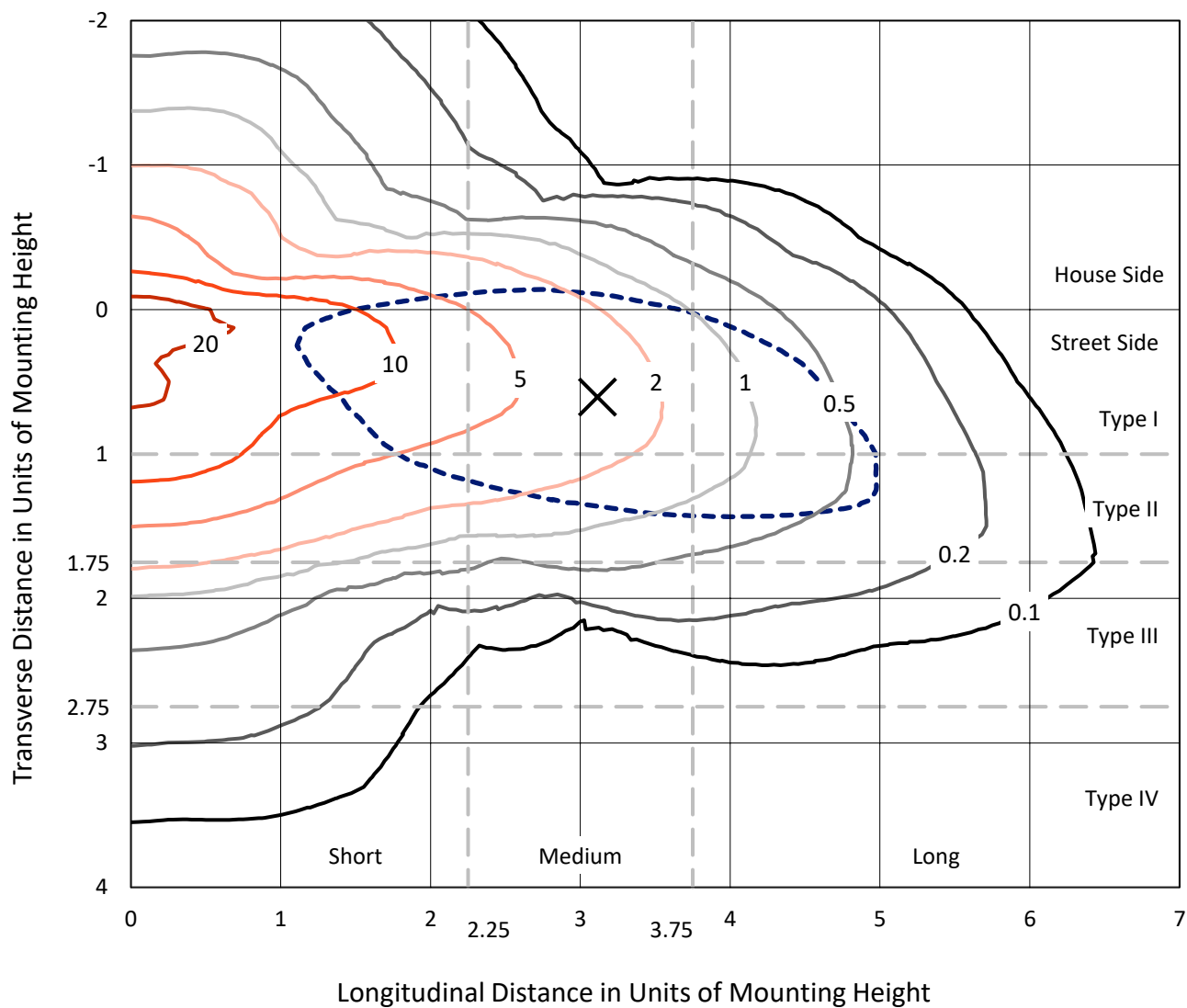
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

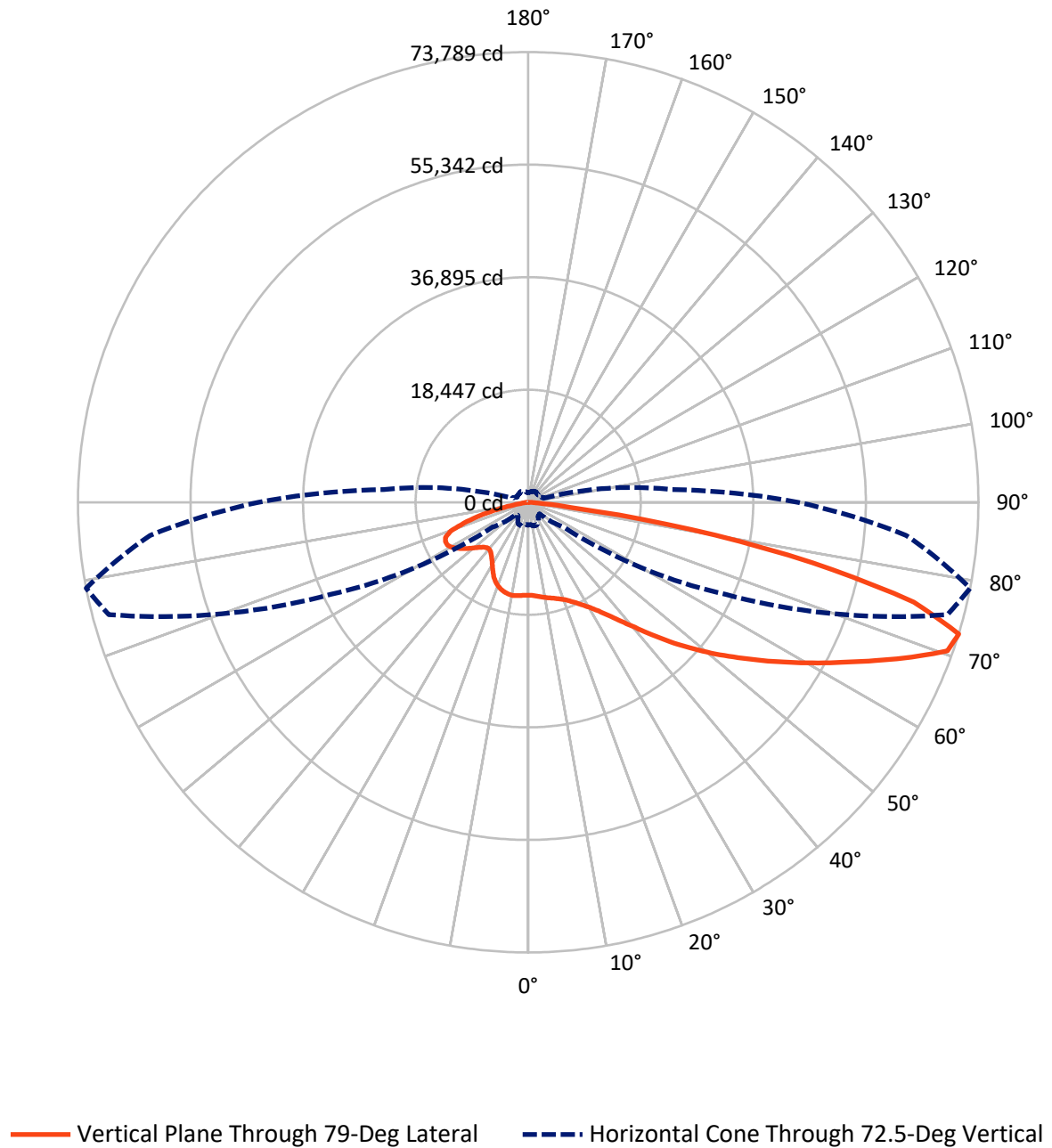


Based on 25 foot mounting height. Maximum calculated value = 24.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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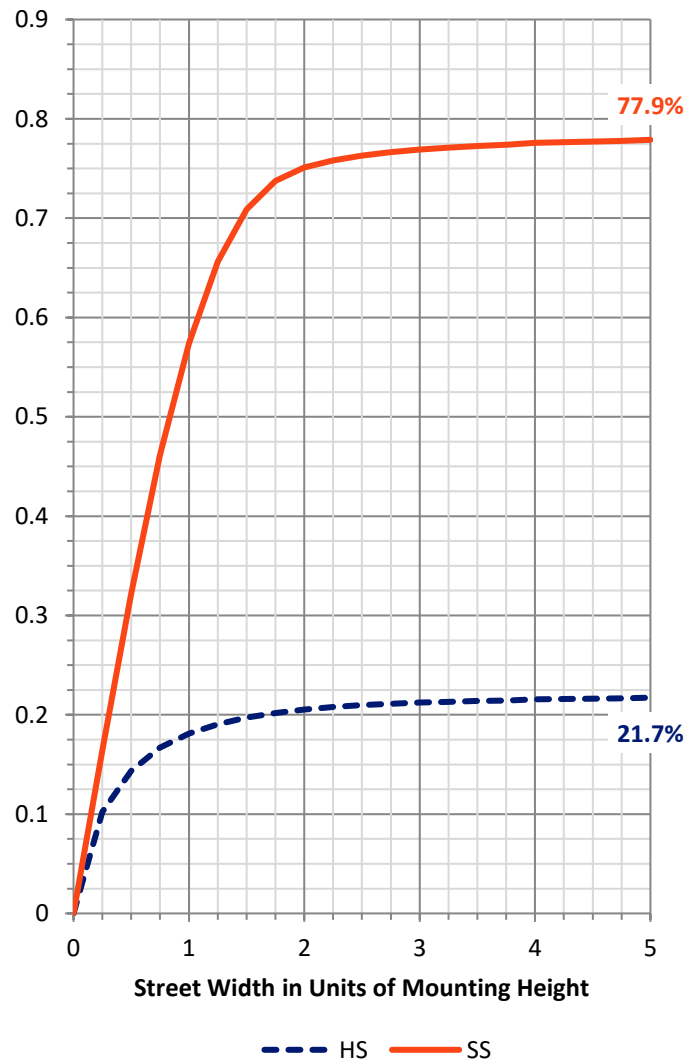
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16693.4	0.0	16693.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	59166.6	0.0	59166.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	75860.0	0.0	75860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1382.3	1.8
10°-20°	3614.0	4.8
20°-30°	5831.5	7.7
30°-40°	8752.2	11.5
40°-50°	12415.5	16.4
50°-60°	15679.1	20.7
60°-70°	15924.3	21.0
70°-80°	10853.1	14.3
80°-90°	1408.1	1.9
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°	75860.0	100.0
0°-180°	75860.0	100.0

Coefficient of Utilization



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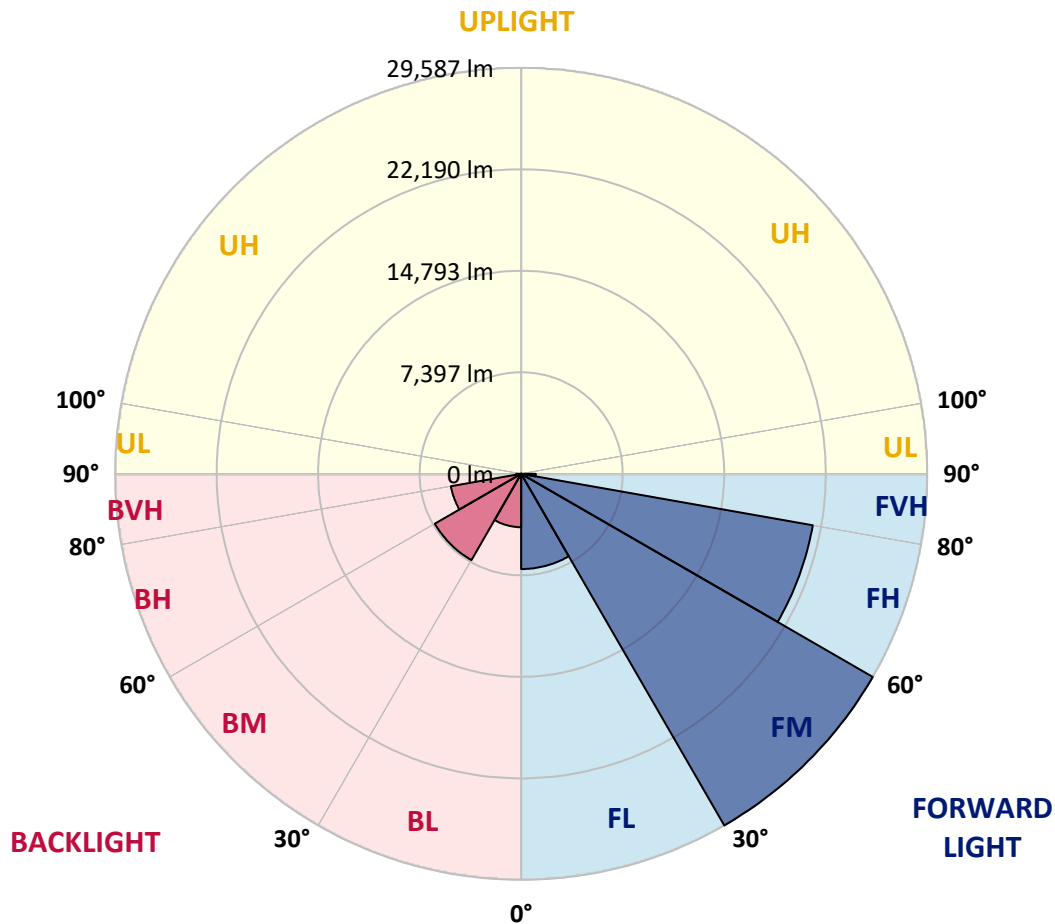
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6939.4	9.1			
FM	(30°-60°)	29587.0	39.0			
FH	(60°-80°)	21579.6	28.4			G5
FVH	(80°-90°)	1060.7	1.4			G5
BL	(0°-30°)	3888.4	5.1	B4/5000		
BM	(30°-60°)	7259.9	9.6	B4/8500		
BH	(60°-80°)	5197.8	6.9	B5		G5
BVH	(80°-90°)	347.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2
2.5°	15236.2	15164.0	15208.1	15192.1	15212.1	15236.2	15244.2	15256.3	15296.4	15292.4	15288.4
5°	15204.1	15131.9	15192.1	15172.0	15224.2	15280.3	15328.5	15372.6	15436.8	15464.9	15424.8
7.5°	15135.9	15087.7	15147.9	15208.1	15304.4	15388.7	15456.9	15557.2	15649.5	15665.6	15693.6
10°	14738.6	14702.5	14843.0	14999.5	15264.3	15493.0	15641.5	15757.8	15858.2	15874.2	15914.3
12.5°	14325.3	14281.2	14437.7	14650.3	15079.7	15493.0	15806.0	15958.5	16046.8	16098.9	16159.1
15°	14257.1	14221.0	14309.3	14493.9	14851.0	15384.7	15918.4	16199.2	16275.5	16335.7	16359.8
17.5°	14586.1	14517.9	14554.0	14618.2	14826.9	15284.4	16006.6	16472.1	16588.5	16652.7	16652.7
20°	15348.6	15252.2	15196.1	15067.7	15031.6	15300.4	15998.6	16801.1	16953.6	17033.9	17053.9
22.5°	16363.8	16299.6	16179.2	15854.2	15501.0	15497.0	16151.1	17222.5	17507.4	17583.6	17535.5
25°	17591.7	17495.3	17342.9	16901.5	16223.3	15886.3	16407.9	17760.2	18237.7	18257.8	18117.3
27.5°	19004.1	18859.7	18651.0	18069.2	17154.3	16496.2	16801.1	18378.1	19076.3	19068.3	18779.4
30°	20492.8	20348.4	20127.7	19421.4	18269.8	17318.8	17346.9	19044.2	20071.5	20027.4	19533.8
32.5°	21580.3	21471.9	21427.8	20882.1	19553.9	18289.9	17972.9	19782.6	21299.4	21259.3	20569.1
35°	22414.9	22274.5	22326.6	22049.8	20954.3	19377.3	18739.3	20661.4	22792.1	22788.1	21929.4
37.5°	23241.5	23117.1	23161.3	22976.7	22250.4	20757.7	19674.2	21736.8	24642.0	24730.2	23574.6
40°	23995.9	23863.5	24040.0	23867.5	23257.6	22226.3	20737.6	22952.6	26784.7	26953.3	25564.9
42.5°	24449.3	24345.0	24637.9	24642.0	24132.3	23466.2	21905.3	24292.8	29264.6	29641.8	28012.6
45°	24605.8	24569.7	25011.1	25103.4	24906.8	24184.5	22956.6	25753.5	31937.0	32611.2	30801.4
47.5°	24437.3	24369.1	24979.0	25320.1	25476.6	24521.6	23827.4	27334.5	34665.7	35652.8	33843.1
50°	23586.6	23454.2	24361.1	25079.3	25637.1	24742.3	24706.2	29160.2	37767.5	38846.9	36900.7
52.5°	22057.8	21957.5	22988.7	24236.7	25284.0	24850.6	25693.3	31154.6	40712.8	42109.2	40034.6
55°	20103.6	19971.2	21106.8	22735.9	24405.2	24814.5	26680.4	33385.6	44187.8	45604.3	43272.9
57.5°	17005.8	16741.0	18177.5	20103.6	22972.7	24770.4	27707.7	35604.6	47719.0	49416.3	46727.8
60°	12487.5	12094.3	13855.8	16139.1	20171.8	24341.0	28979.7	38092.5	51956.4	53485.2	50499.8
62.5°	7271.0	7042.3	8193.9	10324.7	15204.1	21813.0	29693.9	40985.7	56121.5	57726.6	54207.5
65°	5645.9	5581.7	5682.0	5846.5	8462.8	16331.7	27491.0	43806.6	61418.3	62541.8	58071.7
67.5°	5164.3	5116.2	5160.3	4851.3	4293.6	9096.8	21748.8	44520.8	67092.2	67774.4	61454.4
70°	4590.5	4534.3	4678.8	4414.0	3378.7	4137.1	14052.5	41928.6	71606.5	72886.6	64026.5
72.5°	3739.8	3675.6	4012.7	3892.3	2845.0	2656.4	7058.3	35769.2	71133.0	73789.4	62184.7
75°	2873.1	2837.0	3238.2	3338.6	2319.3	2090.6	3386.7	26588.1	62598.0	65274.5	53593.5
77.5°	2231.1	2203.0	2407.6	2772.8	1869.9	1621.1	2082.6	16865.4	47173.2	47642.7	36932.8
80°	1673.3	1593.0	1781.6	2146.8	1456.6	1183.7	1412.5	9835.1	29818.3	27029.5	16074.9
82.5°	1047.3	1007.2	1163.7	1432.5	1027.2	814.6	918.9	5433.2	11949.8	7038.3	3101.8
85°	597.9	581.8	634.0	818.6	557.8	469.5	525.7	2399.6	2182.9	1500.7	935.0
87.5°	240.8	232.7	288.9	365.2	204.6	172.5	184.6	577.8	481.5	445.4	309.0
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°	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2	15228.2
2.5°	15272.3	15272.3	15216.1	15127.9	15027.5	14963.3	14859.0	14830.9	14722.6	14690.5	14742.6
5°	15456.9	15424.8	15252.2	15003.5	14662.4	14349.4	14004.3	13787.6	13482.7	13374.3	13454.6
7.5°	15689.6	15601.4	15304.4	14758.7	14044.4	13342.2	12611.9	12058.1	11528.5	11339.9	11363.9
10°	15902.3	15777.9	15272.3	14317.3	13081.4	11865.5	10701.9	9887.3	9269.3	9016.5	9072.7
12.5°	16115.0	15886.3	15059.6	13583.0	11713.1	10063.8	8823.9	8189.9	7808.7	7503.7	7604.1
15°	16315.6	15994.6	14730.6	12599.9	10212.3	8539.0	7624.1	7118.5	6813.6	6612.9	6649.0
17.5°	16548.4	16086.9	14237.0	11351.9	8783.8	7483.7	6737.3	6432.3	6372.2	6348.1	6364.1
20°	16873.4	16171.2	13587.0	9955.5	7732.5	6641.0	6255.8	6227.7	6223.7	6211.7	6251.8
22.5°	17222.5	16271.5	12728.3	8687.5	6837.6	6115.3	6047.1	5991.0	5954.8	5950.8	5995.0
25°	17635.8	16303.6	11652.9	7648.2	6075.2	5866.6	5786.3	5702.0	5678.0	5678.0	5702.0
27.5°	18037.1	16195.2	10400.9	6745.3	5645.9	5637.8	5533.5	5505.4	5501.4	5513.4	5545.5
30°	18438.3	15990.6	9157.0	5910.7	5397.1	5397.1	5361.0	5381.0	5397.1	5437.2	5465.3
32.5°	18980.0	15773.9	8117.7	5292.7	5180.4	5140.3	5176.4	5216.5	5232.6	5284.7	5328.9
35°	19774.6	15621.4	7291.1	4955.7	4955.7	4903.5	4923.6	4915.6	4879.4	4855.4	4911.5
37.5°	20825.9	15613.4	6608.9	4799.2	4767.1	4759.1	4763.1	4710.9	4570.5	4401.9	4405.9
40°	22089.9	15830.1	6083.2	4690.8	4666.8	4714.9	4690.8	4550.4	4165.2	3872.2	3864.2
42.5°	23787.3	16448.0	5746.2	4558.4	4630.6	4690.8	4594.5	4109.0	3848.2	3651.6	3643.5
45°	25785.6	17451.2	5573.6	4418.0	4562.4	4634.7	4169.2	3956.5	3747.9	3511.1	3495.1
47.5°	28048.7	18715.2	5533.5	4285.6	4410.0	4454.1	3988.6	3892.3	3655.6	3398.8	3378.7
50°	30512.5	20211.9	5641.8	4129.1	4189.3	4036.8	3928.4	3840.1	3595.4	3342.6	3314.5
52.5°	33060.6	21861.2	5858.5	3916.4	3968.6	3800.0	3904.4	3828.1	3559.3	3218.2	3194.1
55°	35564.5	23522.4	6067.2	3667.6	3743.8	3587.3	3836.1	3780.0	3394.7	3009.5	2989.5
57.5°	38108.6	25175.6	6271.8	3446.9	3527.2	3382.7	3727.8	3651.6	3210.2	2816.9	2808.9
60°	40752.9	26780.7	6368.1	3234.2	3290.4	3194.1	3563.3	3430.9	3001.5	2620.3	2608.3
62.5°	43228.8	28116.9	6211.7	3021.6	3057.7	3017.5	3346.6	3170.0	2792.8	2399.6	2395.6
65°	45712.6	28911.5	5730.1	2812.9	2820.9	2800.9	3041.6	2889.1	2548.1	2207.0	2182.9
67.5°	47963.7	29356.9	4963.7	2588.2	2568.1	2560.1	2756.7	2584.2	2311.3	2014.4	1990.3
70°	48441.2	28225.3	3792.0	2323.3	2323.3	2303.3	2443.7	2267.2	2050.5	1809.7	1801.7
72.5°	44244.0	23743.1	2692.5	2022.4	2054.5	2014.4	2130.7	1982.3	1785.6	1625.1	1577.0
75°	35676.9	17411.1	1958.2	1713.4	1769.6	1701.4	1809.7	1705.4	1536.9	1532.8	1380.4
77.5°	24513.5	10766.1	1420.5	1412.5	1452.6	1364.3	1488.7	1432.5	1280.0	1211.8	1135.6
80°	10461.1	4293.6	1035.3	1091.5	1091.5	1011.2	1155.7	1171.7	1039.3	1007.2	1007.2
82.5°	2082.6	1219.9	726.3	750.4	706.2	682.2	818.6	906.9	1252.0	1392.4	1396.4
85°	626.0	449.4	437.4	409.3	361.1	365.2	481.5	910.9	1123.6	642.0	553.8
87.5°	172.5	112.4	116.4	92.3	76.2	100.3	164.5	690.2	377.2	160.5	136.4
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)