

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: P943822

Luminaire Tested: **GALN-SB8C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943822
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-SB8C-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 55679 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 399.8
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



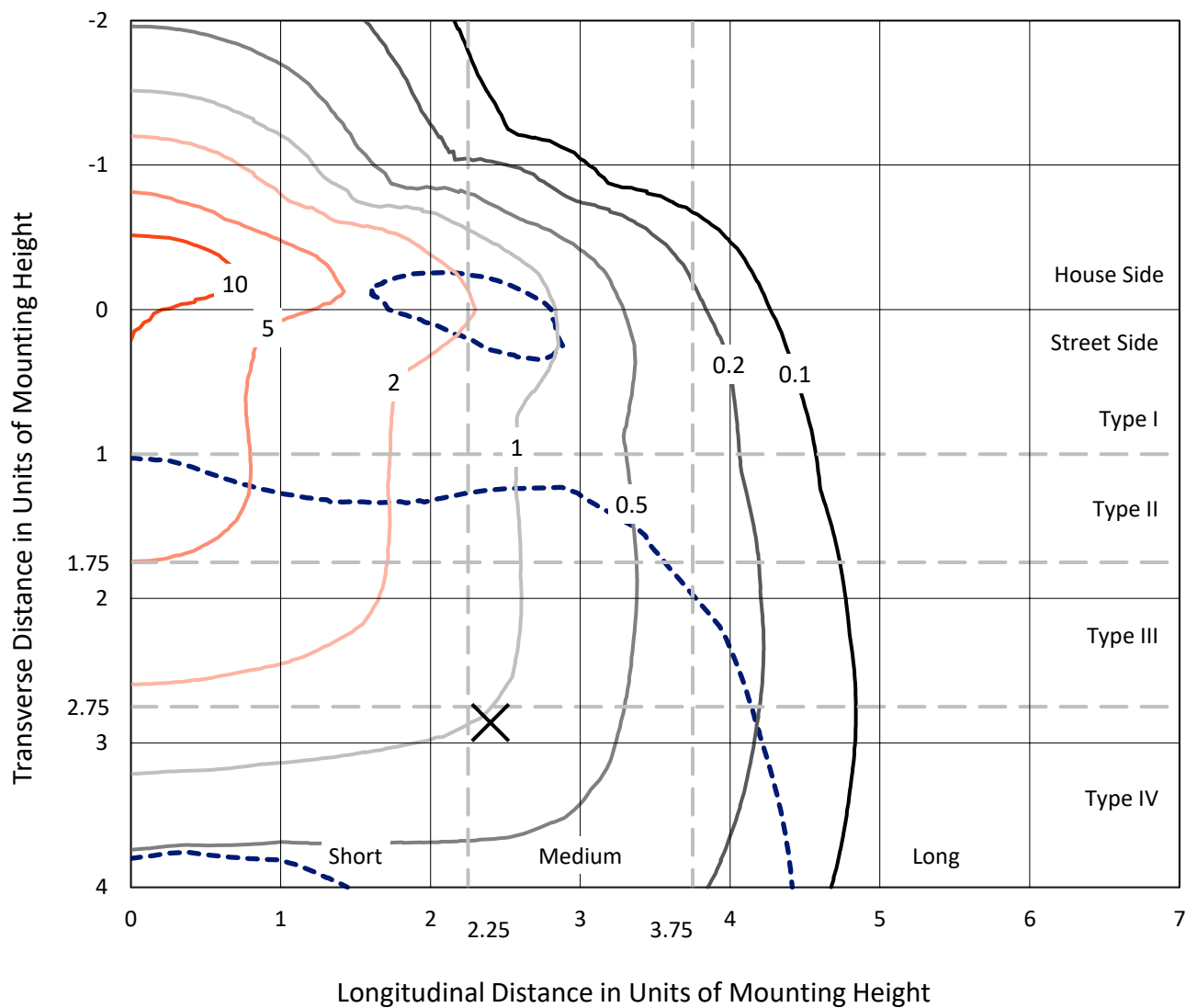
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

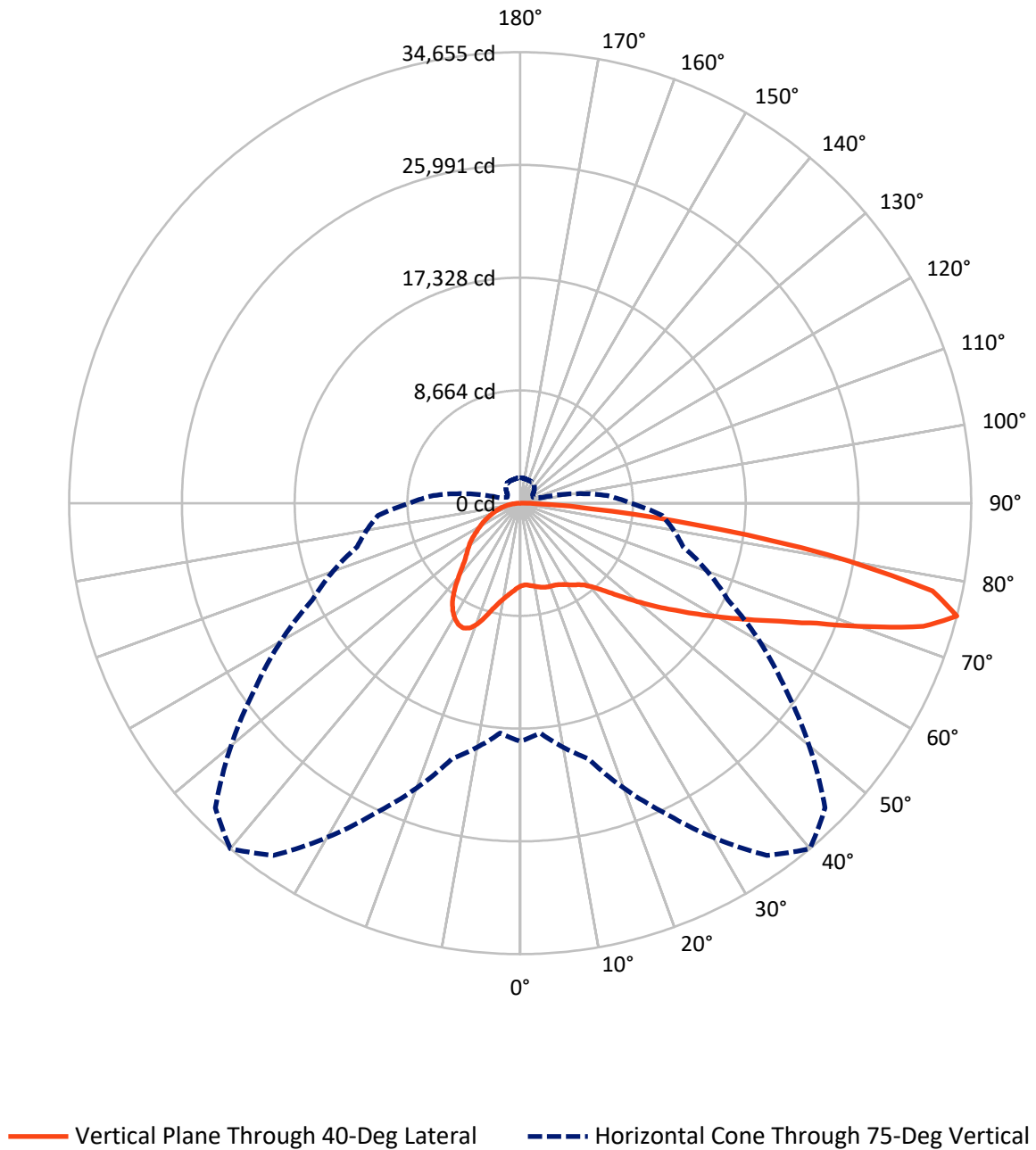


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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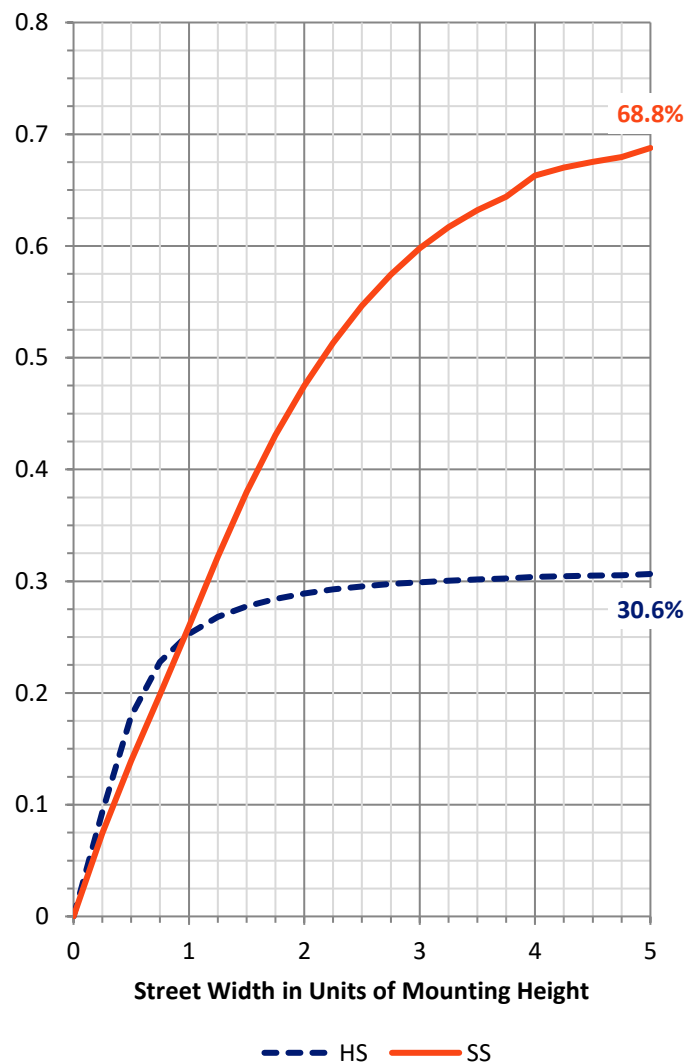
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17251.2	0.0	17251.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	38427.8	0.0	38427.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	55679.0	0.0	55679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.6	1.1
10°-20°	2133.8	3.8
20°-30°	3896.2	7.0
30°-40°	5525.8	9.9
40°-50°	7461.6	13.4
50°-60°	10037.8	18.0
60°-70°	12740.3	22.9
70°-80°	11562.6	20.8
80°-90°	1685.5	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°	55679.0	100.0
0°-180°	55679.0	100.0

Coefficient of Utilization



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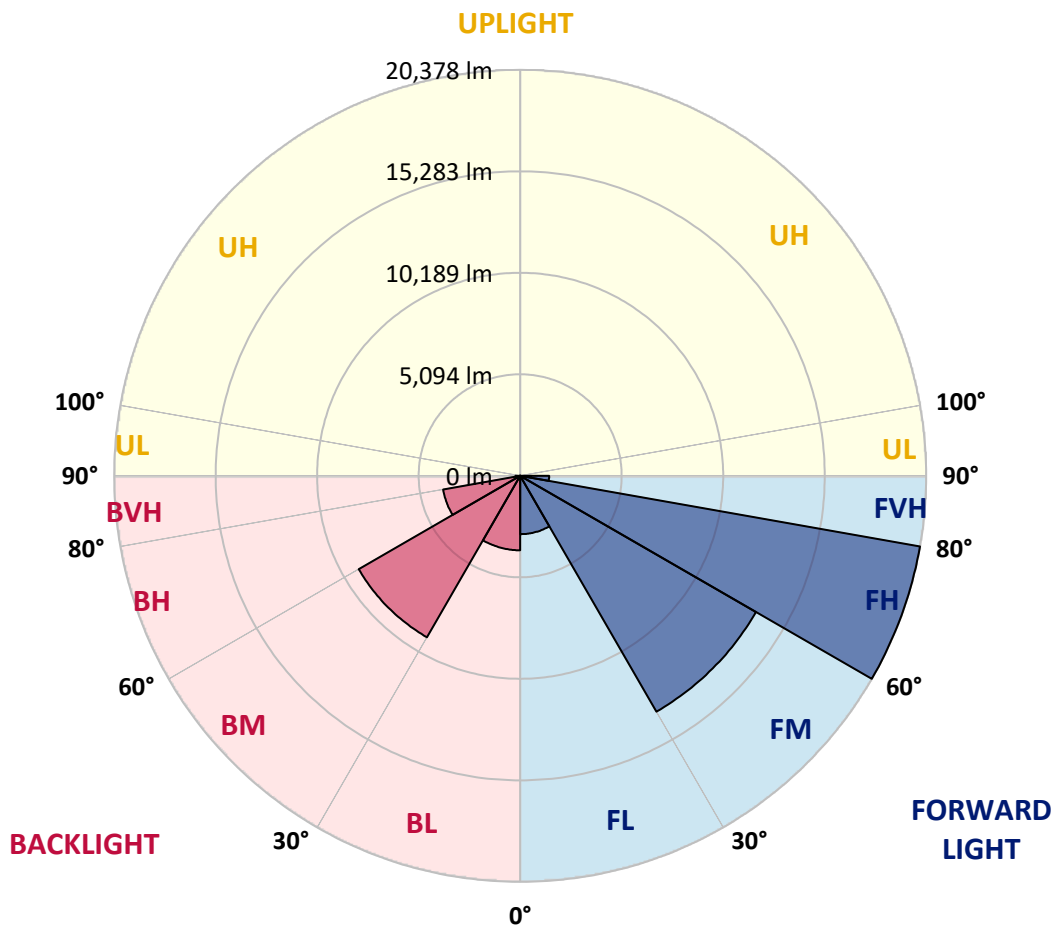
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2928.8	5.3			
FM	(30°-60°)	13667.9	24.5			
FH	(60°-80°)	20377.7	36.6			G5
FVH	(80°-90°)	1453.4	2.6			G5
BL	(0°-30°)	3736.8	6.7	B4/5000		
BM	(30°-60°)	9357.2	16.8	B5		
BH	(60°-80°)	3925.2	7.0	B4/5000		G4/5000
BVH	(80°-90°)	232.0	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0
2.5°	6269.5	6305.0	6296.1	6284.3	6284.3	6287.2	6284.3	6305.0	6325.6	6346.3	6378.8
5°	6334.5	6369.9	6352.2	6337.4	6325.6	6322.7	6313.8	6310.9	6322.7	6349.2	6393.5
7.5°	6461.5	6496.9	6470.3	6443.7	6420.1	6408.3	6396.5	6378.8	6369.9	6384.7	6446.7
10°	6603.2	6638.7	6606.2	6558.9	6520.5	6505.8	6494.0	6476.2	6464.4	6473.3	6541.2
12.5°	6745.0	6780.4	6736.1	6671.1	6620.9	6612.1	6597.3	6591.4	6588.5	6585.5	6653.4
15°	6877.9	6907.4	6851.3	6774.5	6721.3	6706.6	6691.8	6700.7	6715.4	6733.2	6809.9
17.5°	6981.2	7010.8	6928.1	6827.7	6777.5	6771.5	6762.7	6792.2	6833.6	6877.9	6972.4
20°	7075.7	7105.3	6998.9	6863.1	6804.0	6804.0	6807.0	6869.0	6928.1	6993.0	7123.0
22.5°	7208.6	7232.2	7102.3	6916.3	6830.6	6836.5	6860.1	6922.2	6996.0	7084.6	7264.7
25°	7406.5	7424.2	7264.7	7016.7	6919.2	6936.9	6957.6	6987.1	7058.0	7161.4	7403.5
27.5°	7725.4	7740.2	7530.5	7193.8	7046.2	7075.7	7105.3	7084.6	7117.1	7205.7	7515.7
30°	8174.3	8183.1	7917.4	7471.4	7261.8	7276.5	7282.4	7196.8	7134.8	7205.7	7595.5
32.5°	8705.9	8702.9	8386.9	7808.1	7506.9	7492.1	7441.9	7273.6	7128.9	7190.9	7666.3
35°	9529.8	9497.3	9089.8	8280.6	7784.5	7692.9	7574.8	7359.2	7158.4	7176.1	7728.4
37.5°	10894.1	10793.7	10229.7	9054.3	8197.9	7964.6	7790.4	7498.0	7223.4	7170.2	7802.2
40°	12432.7	12305.7	11685.6	10114.5	8818.1	8443.0	8162.5	7695.9	7329.7	7196.8	7911.5
42.5°	14257.8	14077.6	13410.2	11363.7	9603.6	9060.2	8637.9	7946.9	7486.2	7282.4	8059.1
45°	16499.2	16260.0	15315.0	12772.3	10592.9	9869.4	9305.3	8327.9	7725.4	7447.8	8280.6
47.5°	18764.2	18823.3	17479.6	14384.7	11780.1	10867.6	10141.1	8900.8	8073.9	7713.6	8637.9
50°	21171.1	21212.4	19632.5	16171.4	13126.7	11995.7	11080.2	9541.6	8558.2	8091.6	9172.4
52.5°	23049.3	23055.2	21587.4	18040.7	14529.4	13236.0	12093.1	10274.0	9119.3	8593.6	9884.2
55°	24224.6	24209.8	22957.7	19809.7	16141.9	14538.3	13215.3	11106.8	9804.4	9184.3	10779.0
57.5°	25078.1	25033.8	23902.7	21330.5	17860.6	16076.9	14485.1	12051.8	10613.6	9887.1	11957.3
60°	25402.9	25376.3	24543.5	22644.7	19667.9	17777.9	15949.9	13109.0	11532.0	10716.9	13472.2
62.5°	25526.9	25577.1	25172.6	23917.5	21602.2	19662.0	17559.4	14372.9	12565.6	11656.0	15069.9
65°	25964.0	26055.5	25972.9	25583.0	23787.5	21868.0	19694.5	15876.1	13693.7	12663.1	16738.4
67.5°	26829.3	26920.8	26956.3	27576.4	26457.2	24617.4	22358.2	17748.4	15013.8	13708.5	17993.5
70°	26808.6	26782.0	27408.1	29162.2	29800.1	28424.0	25949.2	20051.8	16587.8	14576.7	18152.9
72.5°	24401.8	24189.2	25668.7	29144.5	32582.0	32398.9	30334.6	23022.7	17946.2	14683.0	15752.0
75°	18306.5	17739.5	20353.0	26265.2	33045.6	34655.1	33122.4	24865.4	17624.3	12973.1	10962.1
77.5°	7828.8	7258.8	10338.9	19443.5	29575.7	32395.9	30565.0	21693.8	14068.8	8578.9	5383.6
80°	2049.5	2046.5	3124.4	8815.1	20113.8	23923.4	20988.0	14009.7	8038.4	3065.4	1485.4
82.5°	847.6	826.9	1148.8	3428.6	9828.0	13425.0	10956.1	6248.8	2902.9	829.8	493.2
85°	316.0	313.0	558.1	1184.2	3467.0	5537.1	4007.4	1597.6	723.5	404.6	221.5
87.5°	88.6	85.6	121.1	410.5	844.6	1281.7	685.1	262.8	203.8	159.5	65.0
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°	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0	6367.0
2.5°	6387.6	6402.4	6429.0	6449.7	6476.2	6505.8	6547.1	6573.7	6600.3	6618.0	6606.2
5°	6414.2	6446.7	6514.6	6582.5	6662.3	6736.1	6821.8	6883.8	6934.0	6948.7	6954.6
7.5°	6473.3	6526.4	6641.6	6756.8	6883.8	7004.8	7128.9	7235.2	7320.8	7353.3	7356.3
10°	6576.6	6647.5	6809.9	6972.4	7140.7	7326.7	7486.2	7639.8	7760.8	7811.1	7814.0
12.5°	6706.6	6795.2	7007.8	7232.2	7465.5	7722.5	7929.2	8118.2	8268.8	8336.7	8336.7
15°	6874.9	6990.1	7261.8	7563.0	7905.6	8262.9	8525.7	8735.4	8903.7	8986.4	8980.5
17.5°	7058.0	7211.6	7554.1	8008.9	8499.1	8968.7	9275.8	9429.4	9603.6	9683.3	9680.4
20°	7235.2	7424.2	7914.4	8575.9	9228.6	9727.6	9975.7	10017.0	10028.9	10037.7	10061.3
22.5°	7418.3	7672.3	8366.2	9290.6	9990.5	10336.0	10371.4	10194.2	9946.2	9831.0	9863.5
25°	7619.1	7955.8	8956.9	10079.1	10646.1	10687.4	10415.7	9984.6	9515.0	9299.4	9331.9
27.5°	7814.0	8283.6	9665.6	10832.1	11118.6	10755.3	10170.6	9559.3	8992.3	8764.9	8791.5
30°	8008.9	8658.6	10448.2	11490.7	11334.1	10587.0	9783.7	9101.6	8531.6	8292.4	8319.0
32.5°	8206.8	9095.7	11348.9	11966.1	11295.8	10229.7	9302.4	8587.7	8085.7	7834.7	7867.2
35°	8431.2	9633.1	12202.4	12226.0	11038.8	9704.0	8667.5	7973.5	7536.4	7335.6	7379.9
37.5°	8723.6	10315.3	12955.4	12291.0	10590.0	8933.2	7879.0	7247.0	6886.7	6795.2	6860.1
40°	9086.8	11136.3	13531.3	12187.6	9925.5	7997.1	7016.7	6511.7	6307.9	6328.6	6399.5
42.5°	9559.3	12054.7	13935.9	11921.8	9001.2	7031.4	6260.7	6036.2	6133.7	6216.4	6293.1
45°	10173.6	13008.6	14186.9	11470.0	7955.8	6213.4	5814.7	5867.9	5941.7	5950.6	6009.6
47.5°	10959.1	13974.3	14352.3	10787.8	6889.7	5637.5	5531.2	5543.0	5528.3	5466.3	5513.5
50°	11939.5	14913.4	14499.9	9884.2	5983.1	5277.3	5135.5	5094.2	4890.4	4689.6	4716.2
52.5°	13055.8	15775.7	14561.9	8762.0	5277.3	4976.0	4745.7	4485.8	4104.9	4042.8	4063.5
55°	14296.1	16573.0	14402.5	7382.8	4683.7	4589.2	4240.7	3927.7	3886.3	3833.2	3842.0
57.5°	15778.6	17432.4	14077.6	5844.3	4075.3	4137.3	3797.7	3833.2	3759.3	3676.7	3661.9
60°	17399.9	18321.3	13507.7	4441.5	3446.3	3573.3	3682.6	3679.6	3658.9	3591.0	3567.4
62.5°	18858.7	18906.0	12385.5	3402.0	2894.1	3136.2	3434.5	3431.5	3413.8	3375.4	3360.7
65°	19727.0	18817.4	10513.2	2678.5	2439.3	2776.0	3097.8	3121.5	3124.4	3121.5	3121.5
67.5°	19573.4	17780.9	7943.9	2132.2	2064.2	2409.8	2764.1	2796.6	2820.2	2826.2	2832.1
70°	17837.0	15504.0	5179.8	1701.0	1730.5	2087.9	2448.2	2480.6	2501.3	2524.9	2536.7
72.5°	13903.4	11399.1	2965.0	1376.2	1438.2	1810.3	2135.1	2173.5	2185.3	2229.6	2247.3
75°	8472.6	6703.6	1600.6	1083.8	1181.3	1547.4	1825.0	1869.3	1890.0	1943.2	1949.1
77.5°	4028.1	2902.9	912.5	844.6	950.9	1263.9	1541.5	1591.7	1535.6	1565.2	1541.5
80°	1361.4	1077.9	575.9	643.8	726.5	986.3	1234.4	1284.6	1166.5	1160.6	1148.8
82.5°	475.5	437.1	366.2	428.2	469.5	705.8	933.2	998.2	868.2	865.3	823.9
85°	186.0	177.2	203.8	233.3	280.5	434.1	614.3	646.7	534.5	431.2	425.3
87.5°	38.4	41.3	50.2	53.2	85.6	150.6	221.5	271.7	215.6	183.1	168.3
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)