

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: P954853

Luminaire Tested: **GALN-SB8A-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954853
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-SB8A-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33441 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 227.1
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



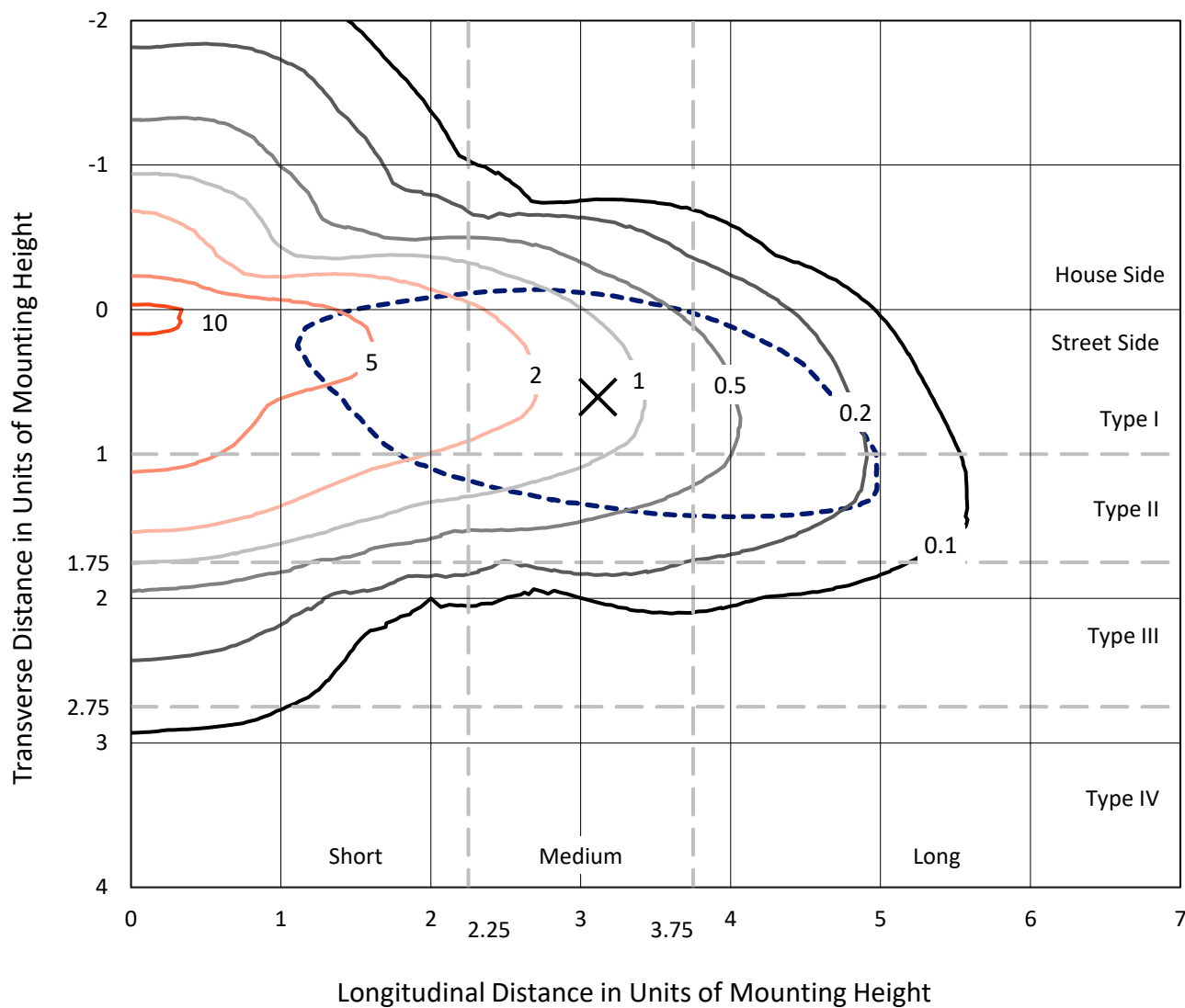
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Iso-Footcandle Lines of Horizontal Illumination

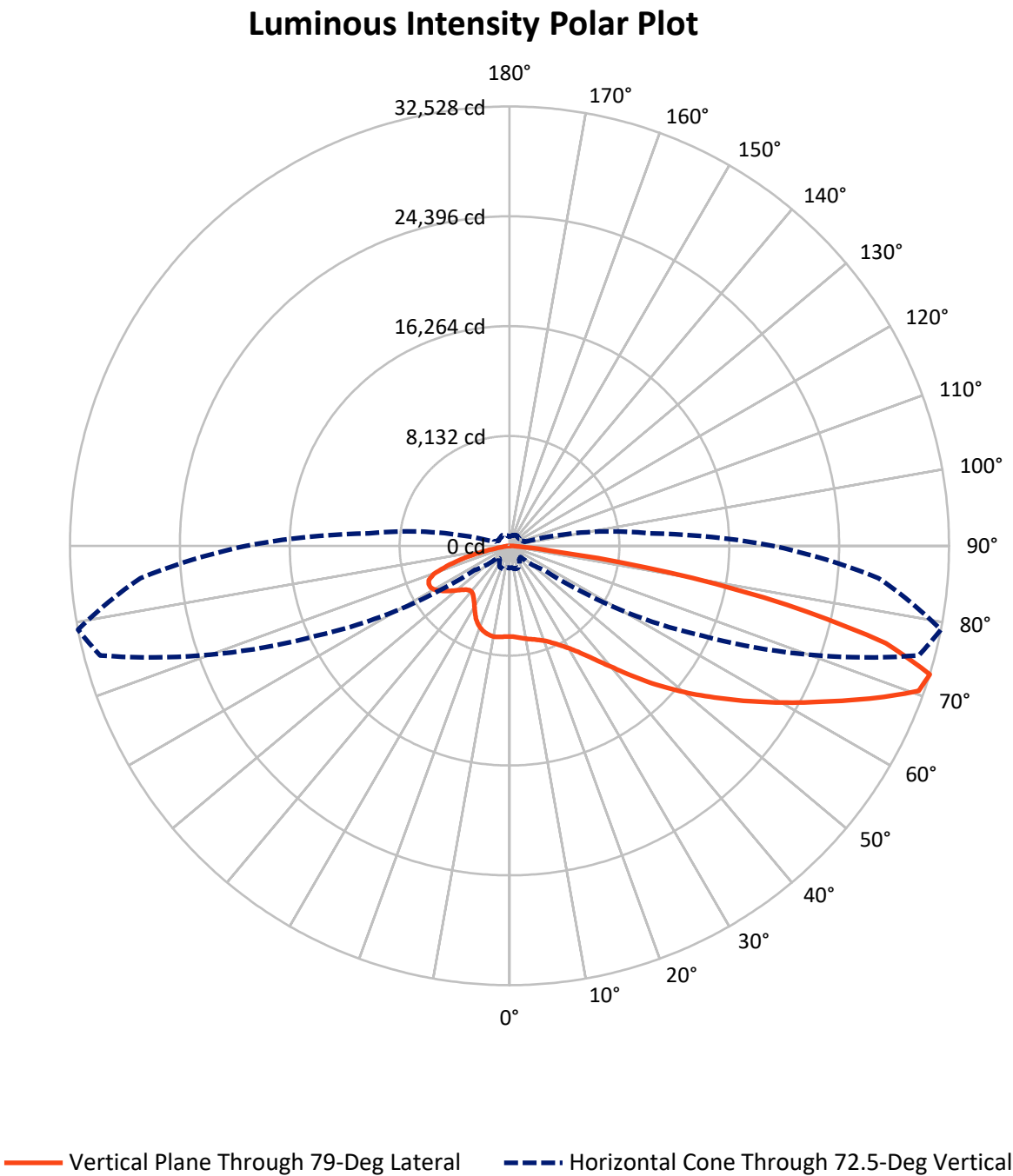
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type II - Medium - N/A

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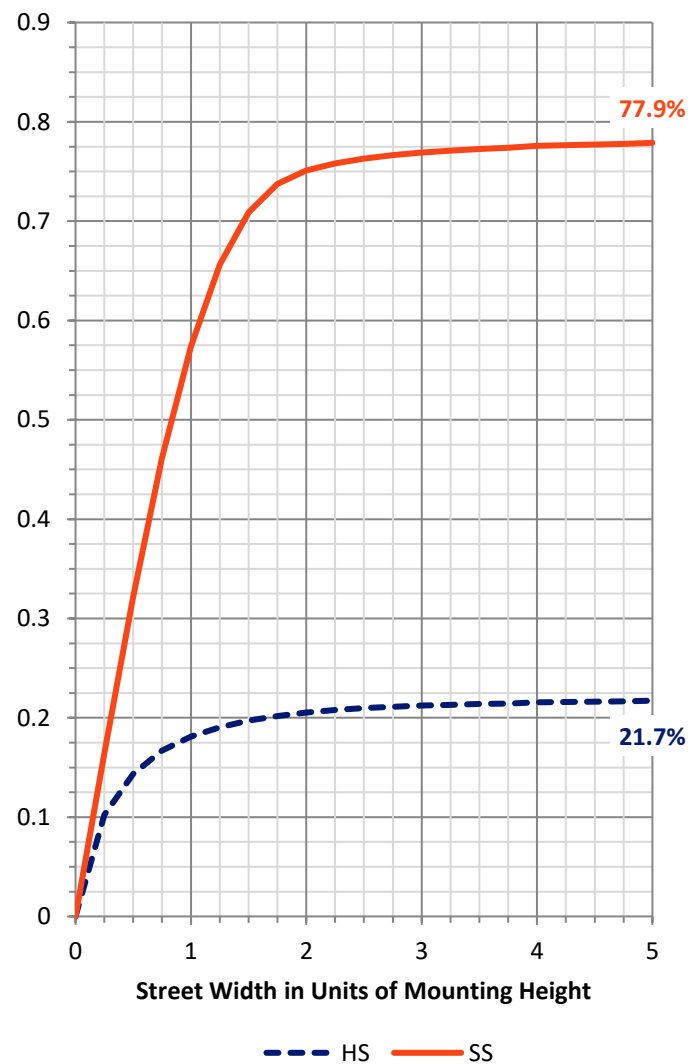
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7358.9	0.0	7358.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	26082.1	0.0	26082.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	33441.0	0.0	33441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.3	1.8
10°-20°	1593.1	4.8
20°-30°	2570.7	7.7
30°-40°	3858.2	11.5
40°-50°	5473.1	16.4
50°-60°	6911.7	20.7
60°-70°	7019.8	21.0
70°-80°	4784.3	14.3
80°-90°	620.7	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°	33441.0	100.0
0°-180°	33441.0	100.0

Coefficient of Utilization



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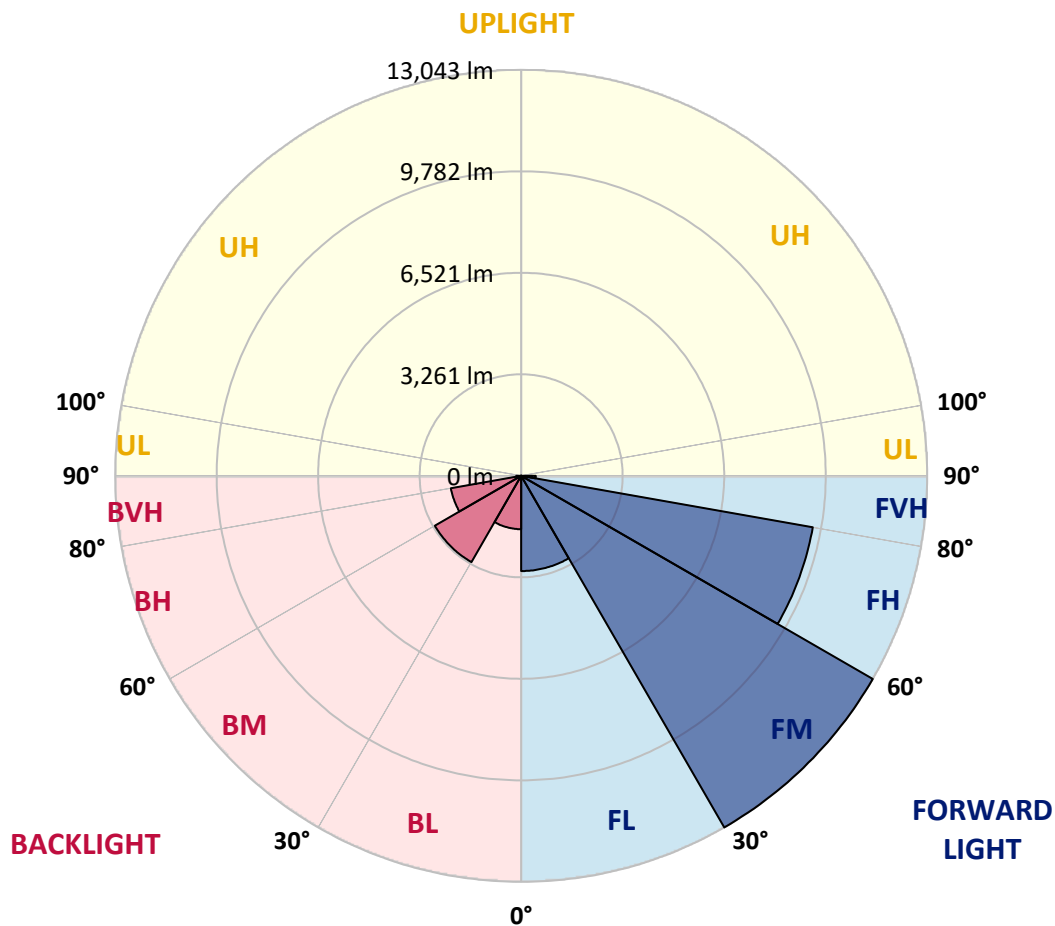
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3059.0	9.1			
FM	(30°-60°)	13042.7	39.0			
FH	(60°-80°)	9512.8	28.4			G4/12000
FVH	(80°-90°)	467.6	1.4			G3/500
BL	(0°-30°)	1714.1	5.1	B3/2500		
BM	(30°-60°)	3200.3	9.6	B3/5000		
BH	(60°-80°)	2291.3	6.9	B3/2500		G3/2500
BVH	(80°-90°)	153.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0
2.5°	6716.5	6684.7	6704.1	6697.0	6705.9	6716.5	6720.0	6725.3	6743.0	6741.3	6739.5
5°	6702.3	6670.5	6697.0	6688.2	6711.2	6736.0	6757.2	6776.6	6804.9	6817.3	6799.6
7.5°	6672.3	6651.1	6677.6	6704.1	6746.6	6783.7	6813.8	6858.0	6898.7	6905.8	6918.2
10°	6497.2	6481.2	6543.1	6612.1	6728.9	6829.7	6895.2	6946.5	6990.7	6997.8	7015.4
12.5°	6315.0	6295.5	6364.5	6458.2	6647.5	6829.7	6967.7	7034.9	7073.8	7096.8	7123.3
15°	6284.9	6269.0	6307.9	6389.3	6546.7	6781.9	7017.2	7141.0	7174.6	7201.2	7211.8
17.5°	6429.9	6399.9	6415.8	6444.1	6536.1	6737.7	7056.1	7261.3	7312.6	7340.9	7340.9
20°	6766.0	6723.6	6698.8	6642.2	6626.3	6744.8	7052.6	7406.4	7473.6	7509.0	7517.8
22.5°	7213.6	7185.3	7132.2	6988.9	6833.2	6831.5	7119.8	7592.1	7717.7	7751.3	7730.1
25°	7754.8	7712.4	7645.2	7450.6	7151.6	7003.1	7233.0	7829.1	8039.6	8048.5	7986.6
27.5°	8377.5	8313.8	8221.8	7965.3	7562.0	7271.9	7406.4	8101.5	8409.3	8405.8	8278.4
30°	9033.8	8970.1	8872.8	8561.5	8053.8	7634.6	7646.9	8395.2	8848.0	8828.6	8611.0
32.5°	9513.1	9465.4	9445.9	9205.3	8619.8	8062.6	7922.9	8720.7	9389.3	9371.6	9067.4
35°	9881.1	9819.1	9842.1	9720.1	9237.2	8542.0	8260.7	9108.0	10047.3	10045.6	9667.0
37.5°	10245.4	10190.6	10210.1	10128.7	9808.5	9150.5	8672.9	9582.1	10862.8	10901.7	10392.3
40°	10578.0	10519.6	10597.5	10521.4	10252.5	9797.9	9141.7	10118.1	11807.4	11881.7	11269.6
42.5°	10777.9	10731.9	10861.0	10862.8	10638.1	10344.5	9656.4	10708.9	12900.6	13066.8	12348.7
45°	10846.9	10831.0	11025.5	11066.2	10979.5	10661.1	10119.9	11352.8	14078.6	14375.8	13578.1
47.5°	10772.6	10742.5	11011.4	11161.7	11230.7	10809.7	10503.7	12049.7	15281.5	15716.6	14918.9
50°	10397.6	10339.2	10739.0	11055.6	11301.5	10907.0	10891.1	12854.6	16648.9	17124.7	16266.8
52.5°	9723.6	9679.4	10134.0	10684.1	11145.8	10954.8	11326.2	13733.7	17947.2	18562.8	17648.3
55°	8862.2	8803.8	9304.4	10022.6	10758.4	10938.9	11761.4	14717.2	19479.1	20103.5	19075.8
57.5°	7496.6	7379.8	8013.1	8862.2	10126.9	10919.4	12214.2	15695.4	21035.7	21784.0	20598.8
60°	5504.8	5331.5	6108.0	7114.5	8892.2	10730.1	12775.0	16792.1	22903.7	23577.6	22261.6
62.5°	3205.2	3104.4	3612.1	4551.4	6702.3	9615.7	13089.8	18067.5	24739.8	25447.3	23896.0
65°	2488.8	2460.5	2504.8	2577.3	3730.6	7199.4	12118.7	19311.0	27074.7	27570.0	25599.5
67.5°	2276.6	2255.3	2274.8	2138.6	1892.7	4010.1	9587.4	19625.9	29576.0	29876.7	27090.7
70°	2023.6	1998.9	2062.5	1945.8	1489.4	1823.7	6194.7	18483.2	31566.0	32130.2	28224.5
72.5°	1648.6	1620.3	1768.9	1715.8	1254.1	1171.0	3111.5	15767.9	31357.2	32528.2	27412.6
75°	1266.5	1250.6	1427.5	1471.7	1022.4	921.6	1492.9	11720.7	27594.8	28774.6	23625.4
77.5°	983.5	971.1	1061.3	1222.3	824.3	714.6	918.1	7434.7	20795.1	21002.1	16280.9
80°	737.6	702.3	785.4	946.4	642.1	521.8	622.7	4335.6	13144.7	11915.3	7086.2
82.5°	461.7	444.0	513.0	631.5	452.8	359.1	405.1	2395.1	5267.8	3102.6	1367.4
85°	263.6	256.5	279.5	360.9	245.9	207.0	231.7	1057.8	962.3	661.6	412.2
87.5°	106.1	102.6	127.4	161.0	90.2	76.1	81.4	254.7	212.3	196.3	136.2
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°	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0	6713.0
2.5°	6732.4	6732.4	6707.7	6668.7	6624.5	6596.2	6550.2	6537.8	6490.1	6475.9	6498.9
5°	6813.8	6799.6	6723.6	6613.9	6463.5	6325.6	6173.4	6077.9	5943.5	5895.7	5931.1
7.5°	6916.4	6877.5	6746.6	6506.0	6191.1	5881.6	5559.6	5315.5	5082.0	4998.9	5009.5
10°	7010.1	6955.3	6732.4	6311.4	5766.6	5230.6	4717.6	4358.6	4086.2	3974.7	3999.5
12.5°	7103.9	7003.1	6638.7	5987.7	5163.4	4436.4	3889.8	3610.3	3442.3	3307.8	3352.1
15°	7192.3	7050.8	6493.6	5554.3	4501.8	3764.2	3360.9	3138.0	3003.6	2915.1	2931.1
17.5°	7294.9	7091.5	6276.0	5004.2	3872.1	3299.0	2970.0	2835.5	2809.0	2798.4	2805.5
20°	7438.2	7128.7	5989.5	4388.6	3408.7	2927.5	2757.7	2745.3	2743.6	2738.3	2755.9
22.5°	7592.1	7172.9	5610.9	3829.7	3014.2	2695.8	2665.7	2641.0	2625.0	2623.3	2642.7
25°	7774.3	7187.0	5136.9	3371.5	2678.1	2586.1	2550.7	2513.6	2503.0	2503.0	2513.6
27.5°	7951.2	7139.3	4585.0	2973.5	2488.8	2485.3	2439.3	2426.9	2425.2	2430.5	2444.6
30°	8128.1	7049.1	4036.6	2605.6	2379.2	2379.2	2363.2	2372.1	2379.2	2396.9	2409.2
32.5°	8366.9	6953.5	3578.5	2333.2	2283.6	2266.0	2281.9	2299.6	2306.6	2329.6	2349.1
35°	8717.1	6886.3	3214.1	2184.6	2184.6	2161.6	2170.4	2166.9	2151.0	2140.4	2165.1
37.5°	9180.6	6882.8	2913.4	2115.6	2101.4	2097.9	2099.7	2076.7	2014.8	1940.5	1942.2
40°	9737.8	6978.3	2681.6	2067.8	2057.2	2078.5	2067.8	2005.9	1836.1	1707.0	1703.4
42.5°	10486.0	7250.7	2533.1	2009.5	2041.3	2067.8	2025.4	1811.4	1696.4	1609.7	1606.2
45°	11366.9	7692.9	2457.0	1947.6	2011.2	2043.1	1837.9	1744.1	1652.1	1547.8	1540.7
47.5°	12364.6	8250.1	2439.3	1889.2	1944.0	1963.5	1758.3	1715.8	1611.5	1498.3	1489.4
50°	13450.7	8909.9	2487.1	1820.2	1846.7	1779.5	1731.7	1692.8	1584.9	1473.5	1461.1
52.5°	14573.9	9636.9	2582.6	1726.4	1749.4	1675.1	1721.1	1687.5	1569.0	1418.7	1408.0
55°	15677.7	10369.3	2674.6	1616.8	1650.4	1581.4	1691.1	1666.3	1496.5	1326.7	1317.8
57.5°	16799.2	11098.1	2764.8	1519.5	1554.9	1491.2	1643.3	1609.7	1415.1	1241.8	1238.2
60°	17964.9	11805.6	2807.2	1425.7	1450.5	1408.0	1570.8	1512.4	1323.1	1155.1	1149.8
62.5°	19056.3	12394.7	2738.3	1332.0	1347.9	1330.2	1475.3	1397.4	1231.2	1057.8	1056.0
65°	20151.3	12744.9	2526.0	1240.0	1243.5	1234.7	1340.8	1273.6	1123.2	972.9	962.3
67.5°	21143.6	12941.2	2188.1	1140.9	1132.1	1128.6	1215.2	1139.2	1018.9	888.0	877.4
70°	21354.1	12442.4	1671.6	1024.2	1024.2	1015.3	1077.3	999.4	903.9	797.8	794.2
72.5°	19503.9	10466.6	1186.9	891.5	905.7	888.0	939.3	873.8	787.2	716.4	695.2
75°	15727.3	7675.2	863.2	755.3	780.1	750.0	797.8	751.8	677.5	675.7	608.5
77.5°	10806.2	4745.9	626.2	622.7	640.3	601.4	656.3	631.5	564.3	534.2	500.6
80°	4611.5	1892.7	456.4	481.1	481.1	445.8	509.4	516.5	458.1	444.0	444.0
82.5°	918.1	537.7	320.2	330.8	311.3	300.7	360.9	399.8	551.9	613.8	615.6
85°	275.9	198.1	192.8	180.4	159.2	161.0	212.3	401.5	495.3	283.0	244.1
87.5°	76.1	49.5	51.3	40.7	33.6	44.2	72.5	304.3	166.3	70.8	60.1
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)