

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: P956314

Luminaire Tested: **GALN-SB9A-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41945 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 255.5
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



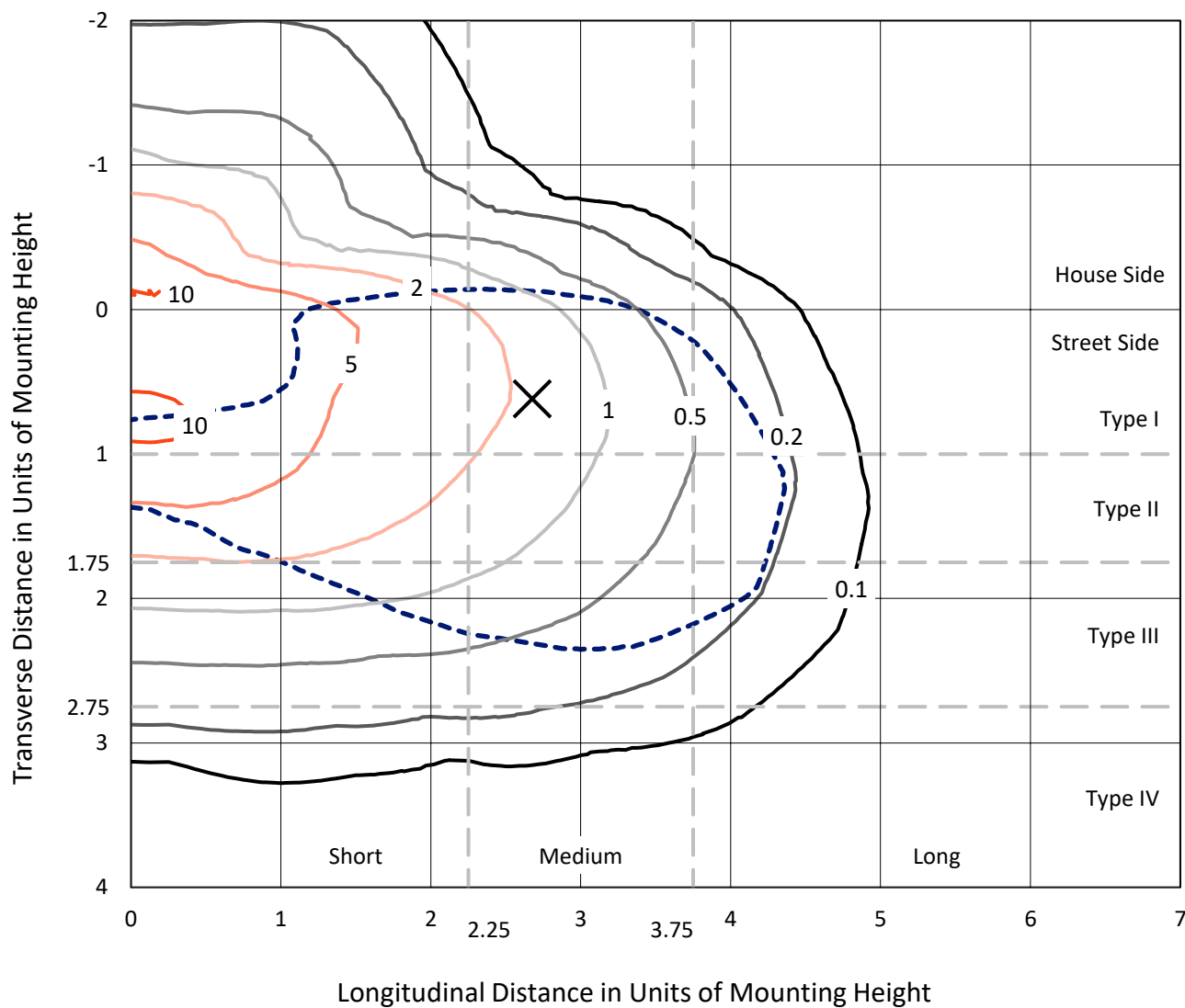
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

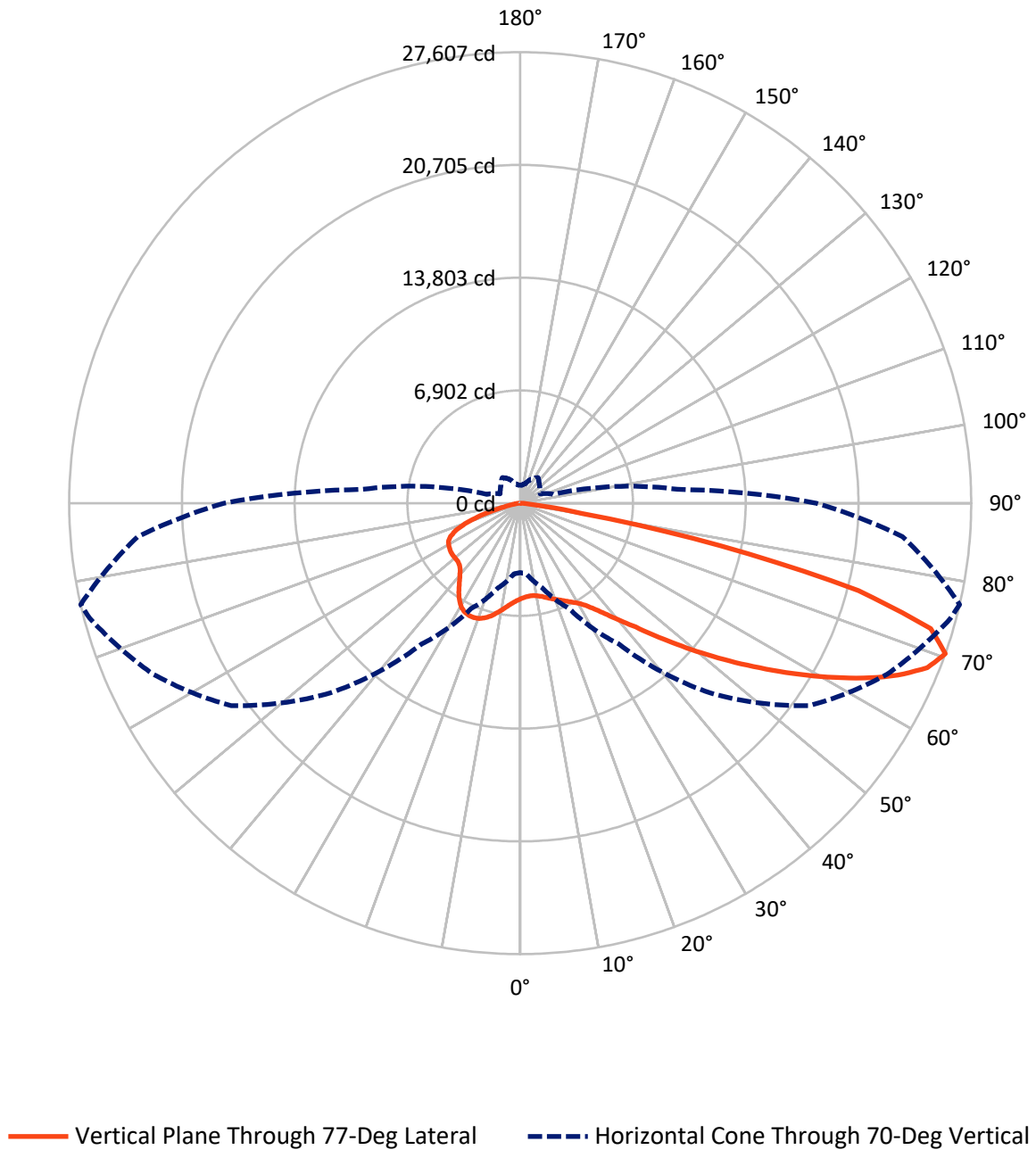


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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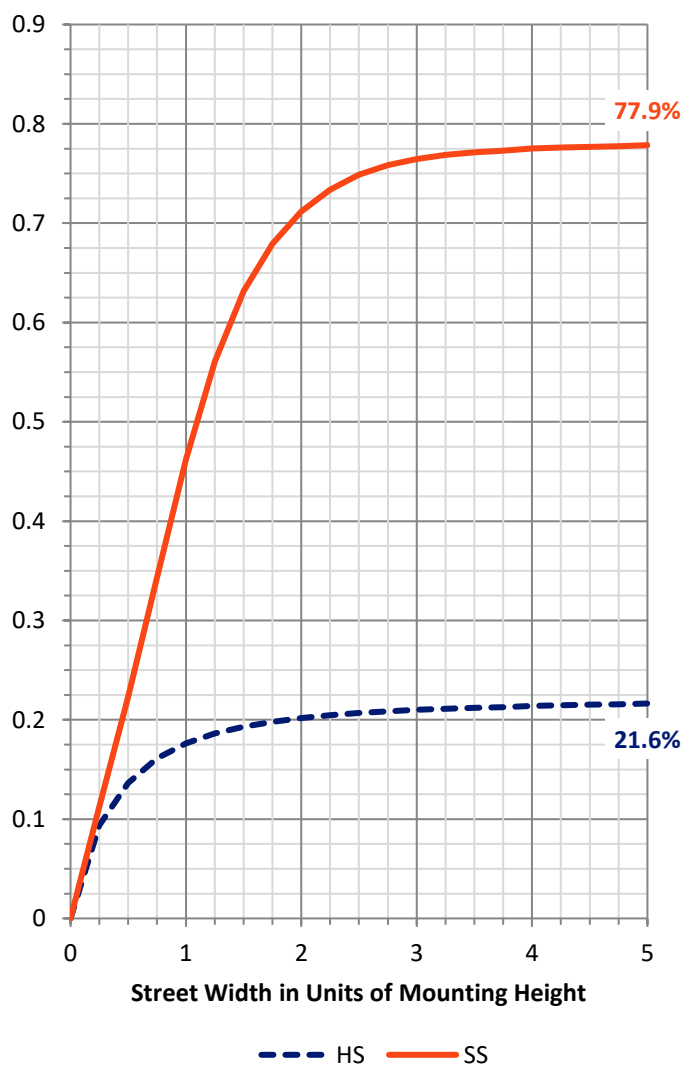
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9185.3	0.0	9185.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	32759.7	0.0	32759.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	41945.0	0.0	41945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.1	1.3
10°-20°	1610.7	3.8
20°-30°	2754.6	6.6
30°-40°	4429.6	10.6
40°-50°	6915.8	16.5
50°-60°	9237.8	22.0
60°-70°	9846.1	23.5
70°-80°	6061.2	14.5
80°-90°	531.1	1.3
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°	41945.0	100.0
0°-180°	41945.0	100.0

Coefficient of Utilization



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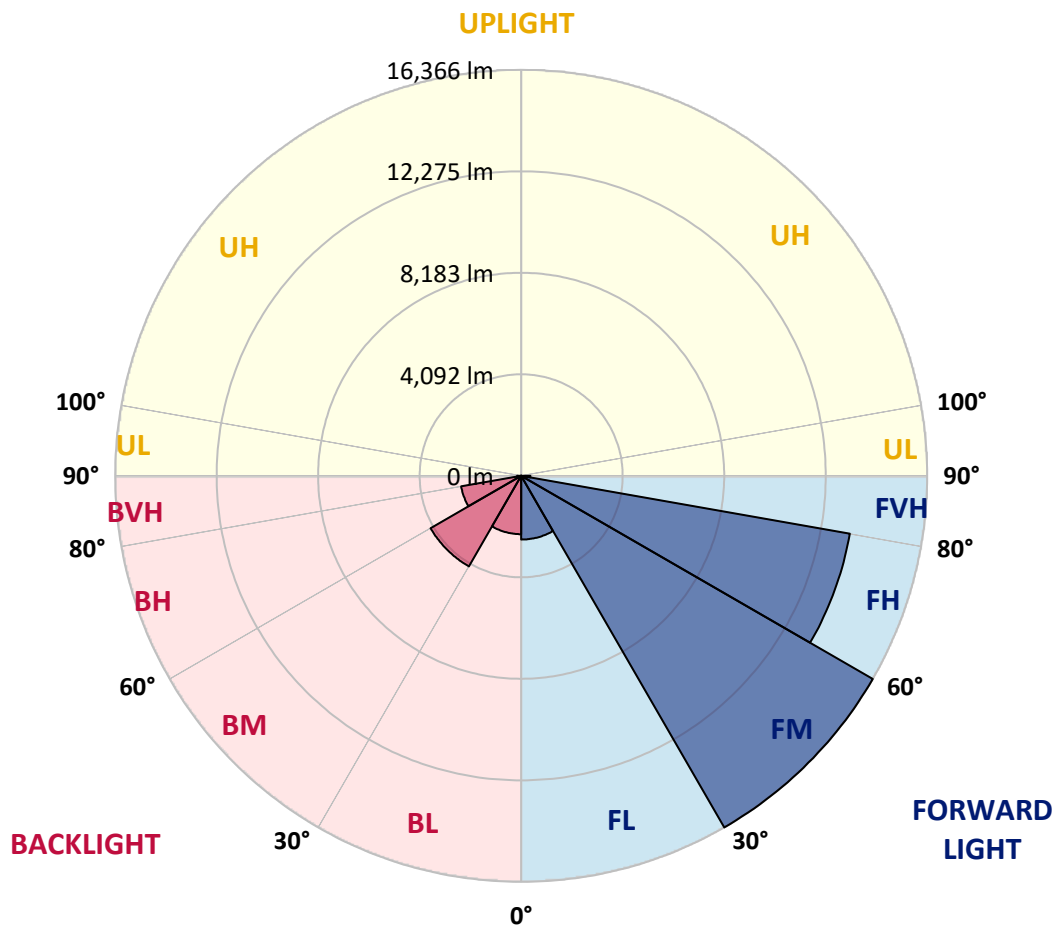
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2569.8	6.1			
FM	(30°-60°)	16366.0	39.0			
FH	(60°-80°)	13452.5	32.1			G5
FVH	(80°-90°)	371.4	0.9			G3/500
BL	(0°-30°)	2353.6	5.6	B3/2500		
BM	(30°-60°)	4217.2	10.1	B3/5000		
BH	(60°-80°)	2454.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	159.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7
2.5°	5394.1	5392.0	5419.9	5428.5	5480.1	5516.6	5585.3	5658.4	5752.9	5763.6	5821.6
5°	5082.7	5082.7	5114.9	5149.2	5215.8	5288.9	5394.1	5520.9	5684.2	5709.9	5853.9
7.5°	4818.4	4835.6	4863.5	4930.1	5007.5	5112.7	5273.8	5454.3	5669.1	5709.9	5941.9
10°	4605.8	4625.1	4659.5	4713.2	4829.2	4975.2	5185.8	5417.8	5705.6	5770.1	6070.8
12.5°	4539.2	4558.5	4577.8	4618.6	4726.1	4897.9	5149.2	5435.0	5793.7	5858.2	6247.0
15°	4693.8	4717.5	4702.4	4691.7	4747.5	4904.4	5166.4	5497.3	5903.3	5995.6	6463.9
17.5°	5050.4	5059.0	5024.7	4923.7	4915.1	4998.9	5248.1	5583.2	6040.8	6141.7	6683.1
20°	5626.1	5611.1	5540.2	5340.4	5226.6	5209.4	5387.7	5712.1	6182.5	6289.9	6919.4
22.5°	6408.1	6390.9	6249.1	5933.3	5679.9	5512.3	5589.6	5879.6	6341.5	6461.8	7149.2
25°	7383.4	7359.7	7151.4	6721.7	6328.6	5914.0	5864.6	6100.9	6537.0	6648.7	7389.8
27.5°	8521.9	8502.6	8277.0	7709.9	7142.8	6463.9	6206.2	6360.8	6741.1	6867.8	7660.5
30°	9746.4	9802.3	9402.7	8792.6	8075.1	7181.4	6665.9	6680.9	7005.3	7119.2	7989.2
32.5°	11185.7	11282.4	10801.2	10027.8	9048.2	7961.2	7245.9	7127.7	7389.8	7484.3	8403.8
35°	12612.1	12721.7	12322.1	11467.1	10339.3	8880.7	7851.7	7641.2	7901.1	8004.2	8953.7
37.5°	13845.2	13991.3	13785.0	13041.8	11720.6	9989.2	8642.2	8244.8	8530.5	8659.4	9692.7
40°	14818.3	15041.7	15026.7	14562.7	13348.9	11333.9	9645.4	8990.2	9312.5	9452.1	10588.5
42.5°	15608.9	15802.2	15969.8	15946.1	15048.2	12861.3	10824.8	9959.1	10204.0	10365.1	11596.0
45°	16154.5	16360.7	16721.6	17110.5	16683.0	14496.1	12176.0	11108.4	11331.8	11574.5	12796.9
47.5°	16642.1	16876.3	17344.6	17961.1	18070.7	16137.3	13656.1	12446.7	12650.8	12902.1	14002.0
50°	16685.1	16887.0	17613.1	18487.5	19056.7	17714.1	15245.8	13948.3	14139.5	14408.0	15293.1
52.5°	15647.5	15965.5	17232.9	18472.4	19510.0	19033.1	16824.7	15510.0	15724.9	16047.1	16629.3
55°	12146.0	12612.1	16118.0	17896.7	19348.9	19885.9	18326.3	17170.6	17445.6	17782.8	17974.0
57.5°	10461.8	10665.8	12794.7	16848.4	18614.2	20107.2	19593.8	18848.3	19290.9	19660.4	19396.1
60°	9402.7	9572.4	10831.2	15217.9	17647.5	19757.0	20573.4	20412.2	21177.0	21617.4	20850.5
62.5°	8268.4	8429.6	9574.5	12706.6	16410.1	19174.9	21192.0	21855.8	23110.4	23591.6	22221.0
65°	7142.8	7280.3	8378.0	10676.6	14837.7	18592.7	21512.1	23103.9	24899.8	25398.2	23359.6
67.5°	5888.2	6002.1	7039.7	9007.4	12925.7	17795.7	21671.1	24085.7	26457.3	26884.8	23922.4
70°	4249.1	4337.2	5409.2	7123.4	10526.2	16425.2	21606.6	24781.7	27265.0	27606.6	23497.1
72.5°	2008.6	2088.1	3346.9	4625.1	7434.9	13757.1	20302.7	24229.6	26444.4	26274.7	20893.4
75°	1072.0	1140.7	1922.6	2537.0	3926.9	9430.6	16614.2	20872.0	22206.0	21381.1	15441.3
77.5°	726.1	779.8	1190.1	1523.1	1793.8	4476.9	10678.7	14451.0	13903.2	12541.2	7733.5
80°	575.7	631.6	975.3	1031.1	867.9	1617.6	4412.4	6689.5	4805.5	3843.1	2199.8
82.5°	442.5	504.8	820.6	747.6	472.6	663.8	1284.6	2116.0	1230.9	936.6	532.8
85°	270.7	337.3	644.5	476.9	266.4	302.9	436.1	588.6	375.9	313.6	191.2
87.5°	137.5	193.3	326.5	174.0	120.3	70.9	116.0	116.0	98.8	85.9	49.4
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°	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7	5851.7
2.5°	5873.2	5916.2	5989.2	6057.9	6111.6	6163.2	6214.8	6242.7	6251.3	6285.6	6305.0
5°	5941.9	6021.4	6163.2	6296.4	6380.2	6431.7	6468.2	6489.7	6494.0	6504.8	6522.0
7.5°	6068.7	6195.4	6393.1	6526.2	6588.5	6584.2	6569.2	6515.5	6494.0	6474.7	6479.0
10°	6247.0	6414.5	6657.3	6749.7	6711.0	6607.9	6474.7	6317.9	6244.8	6173.9	6152.5
12.5°	6468.2	6680.9	6919.4	6915.1	6723.9	6459.7	6150.3	5909.7	5757.2	5647.6	5621.9
15°	6736.8	6981.7	7164.3	7018.2	6599.3	6124.5	5671.3	5357.6	5220.1	5099.8	5086.9
17.5°	7013.9	7276.0	7359.7	6986.0	6285.6	5628.3	5114.9	4867.8	4732.5	4668.0	4687.4
20°	7284.6	7544.5	7475.8	6801.2	5808.7	5065.5	4607.9	4472.6	4444.6	4459.7	4453.2
22.5°	7570.3	7802.3	7499.4	6444.6	5200.8	4489.7	4238.4	4242.7	4305.0	4350.1	4360.9
25°	7862.4	8019.2	7437.1	5929.0	4547.7	4066.6	4004.3	4073.0	4195.4	4283.5	4307.2
27.5°	8143.8	8212.6	7301.7	5291.0	3987.1	3763.7	3774.4	3916.2	4100.9	4223.4	4253.4
30°	8461.8	8384.4	7041.8	4573.5	3598.2	3503.7	3593.9	3759.4	3944.1	4053.7	4079.4
32.5°	8820.5	8532.7	6629.4	3909.7	3323.3	3295.3	3443.6	3551.0	3632.6	3664.8	3682.0
35°	9267.4	8741.0	6100.9	3443.6	3076.2	3142.8	3284.6	3230.9	3198.7	3181.5	3198.7
37.5°	9847.4	9022.5	5482.2	3140.7	2876.4	3033.3	3091.3	2923.7	2797.0	2734.7	2749.7
40°	10545.5	9434.9	4887.2	2906.5	2749.7	2938.7	2837.8	2635.8	2474.7	2386.7	2393.1
42.5°	11321.0	9866.7	4386.6	2730.4	2678.8	2861.4	2650.9	2410.3	2150.4	2122.4	2150.4
45°	12135.2	10311.4	4045.1	2595.0	2644.4	2794.8	2543.5	2154.6	1969.9	2083.8	2143.9
47.5°	12949.4	10719.5	3838.8	2494.1	2627.3	2719.6	2449.0	2012.9	1881.8	2047.2	2124.6
50°	13855.9	11084.7	3746.5	2421.0	2607.9	2689.6	2307.2	1976.3	1789.5	1899.0	1980.6
52.5°	14756.0	11368.3	3677.7	2348.0	2580.0	2665.9	2238.4	1933.4	1677.7	1684.2	1729.3
55°	15654.0	11553.0	3602.5	2251.3	2517.7	2614.4	2232.0	1886.1	1594.0	1563.9	1585.4
57.5°	16612.1	11658.3	3510.2	2143.9	2410.3	2483.3	2225.5	1849.6	1568.2	1518.8	1525.2
60°	17587.4	11813.0	3389.9	2012.9	2266.4	2326.5	2210.5	1836.7	1553.2	1469.4	1475.8
62.5°	18461.7	11866.7	3245.9	1888.3	2081.6	2171.8	2178.3	1826.0	1512.3	1368.4	1368.4
65°	19035.2	11634.7	2994.6	1746.5	1881.8	2012.9	2116.0	1789.5	1439.3	1295.4	1295.4
67.5°	19011.6	10973.0	2601.5	1563.9	1688.5	1836.7	2025.8	1727.2	1351.2	1205.1	1211.6
70°	18126.6	9666.9	2103.1	1351.2	1475.8	1647.7	1909.8	1634.8	1246.0	1106.3	1119.2
72.5°	15546.6	7566.0	1527.4	1102.0	1228.8	1452.2	1759.4	1523.1	1138.5	1018.2	1011.8
75°	11106.2	4788.3	1035.4	846.4	956.0	1230.9	1572.5	1392.0	1039.7	1022.5	964.5
77.5°	5673.4	2287.8	685.3	618.7	665.9	971.0	1321.1	1243.8	1054.8	844.2	751.9
80°	1845.3	844.2	431.8	421.0	442.5	646.6	1022.5	1020.4	799.1	573.6	507.0
82.5°	588.6	363.0	281.4	270.7	259.9	406.0	713.2	807.7	539.2	363.0	360.9
85°	234.2	217.0	165.4	152.5	109.6	191.2	373.8	537.1	401.7	262.1	268.5
87.5°	85.9	85.9	45.1	32.2	23.6	64.4	101.0	161.1	229.9	135.3	133.2
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)