

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: P533963

Luminaire Tested: **GALN-SA9B-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24479 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

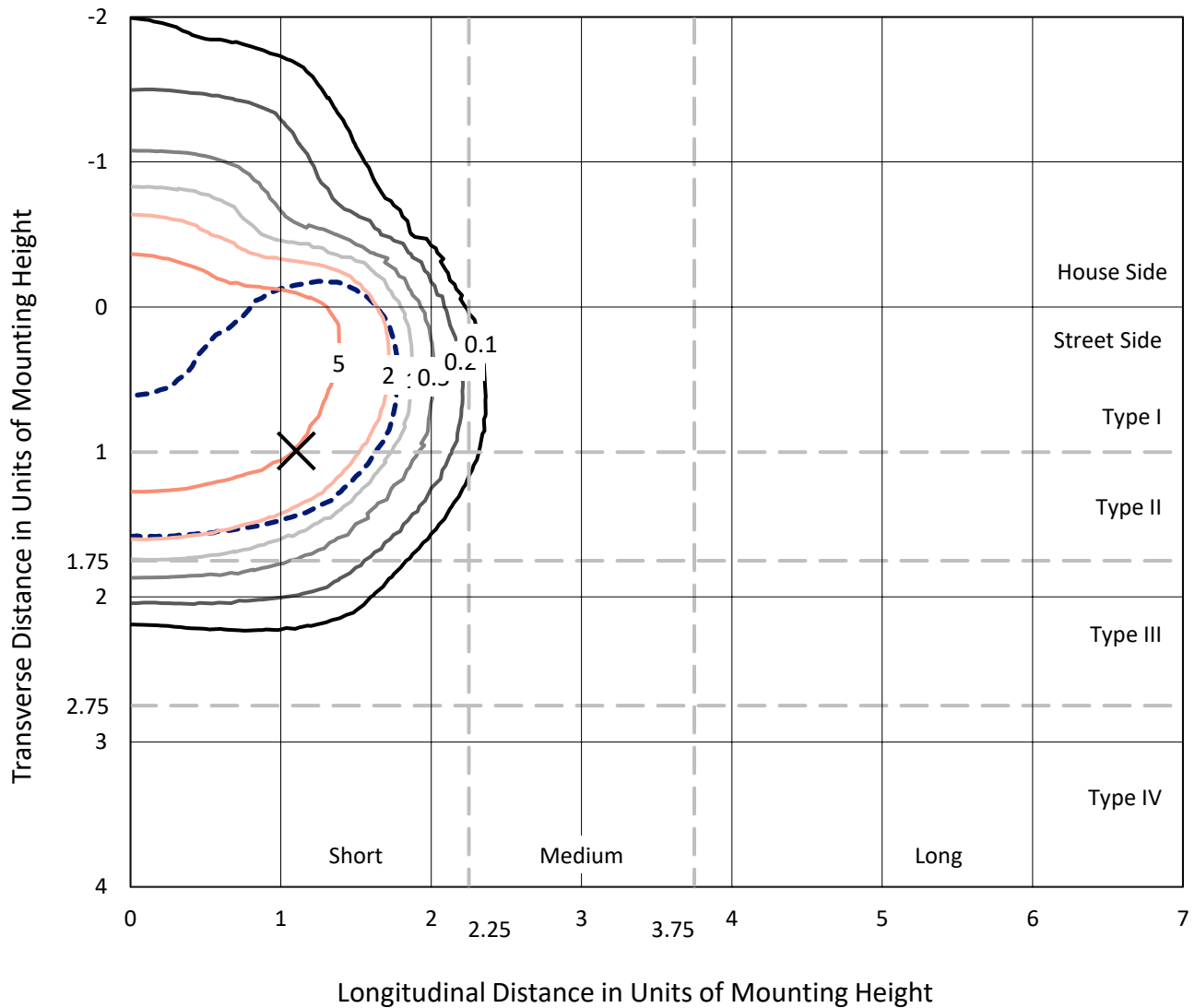
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

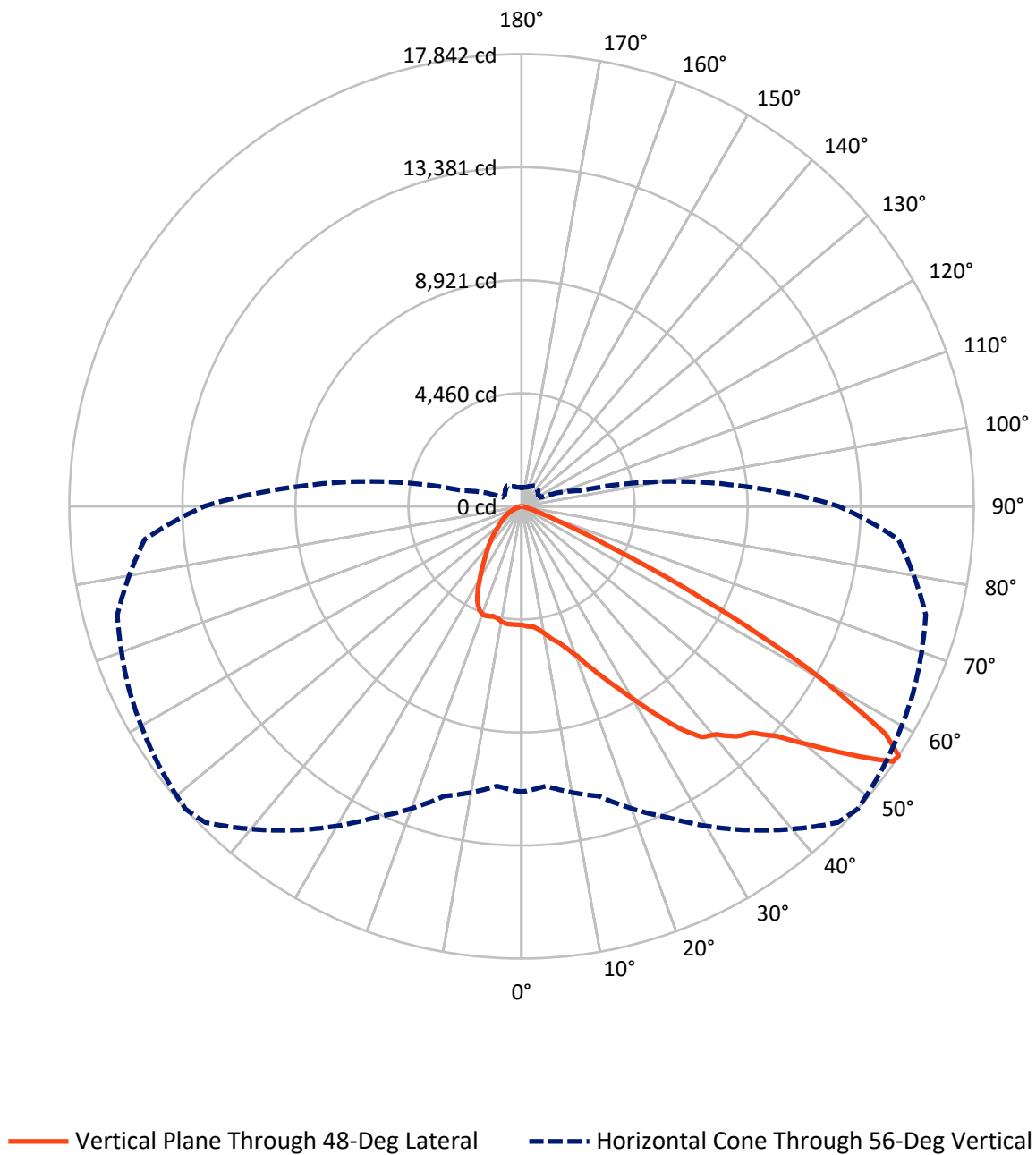
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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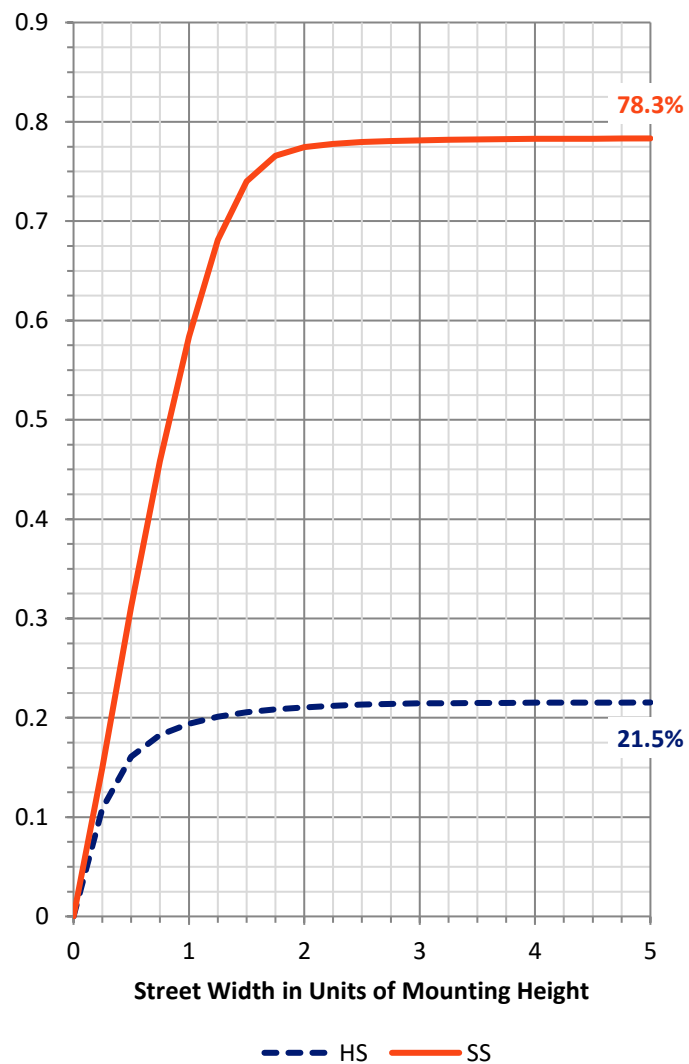
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5323.7	0.0	5323.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	19155.3	0.0	19155.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	24479.0	0.0	24479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.4	1.9
10°-20°	1455.5	5.9
20°-30°	2640.0	10.8
30°-40°	4147.0	16.9
40°-50°	6049.7	24.7
50°-60°	7288.7	29.8
60°-70°	2134.1	8.7
70°-80°	270.7	1.1
80°-90°	38.0	0.2
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°	24479.0	100.0
0°-180°	24479.0	100.0

Coefficient of Utilization



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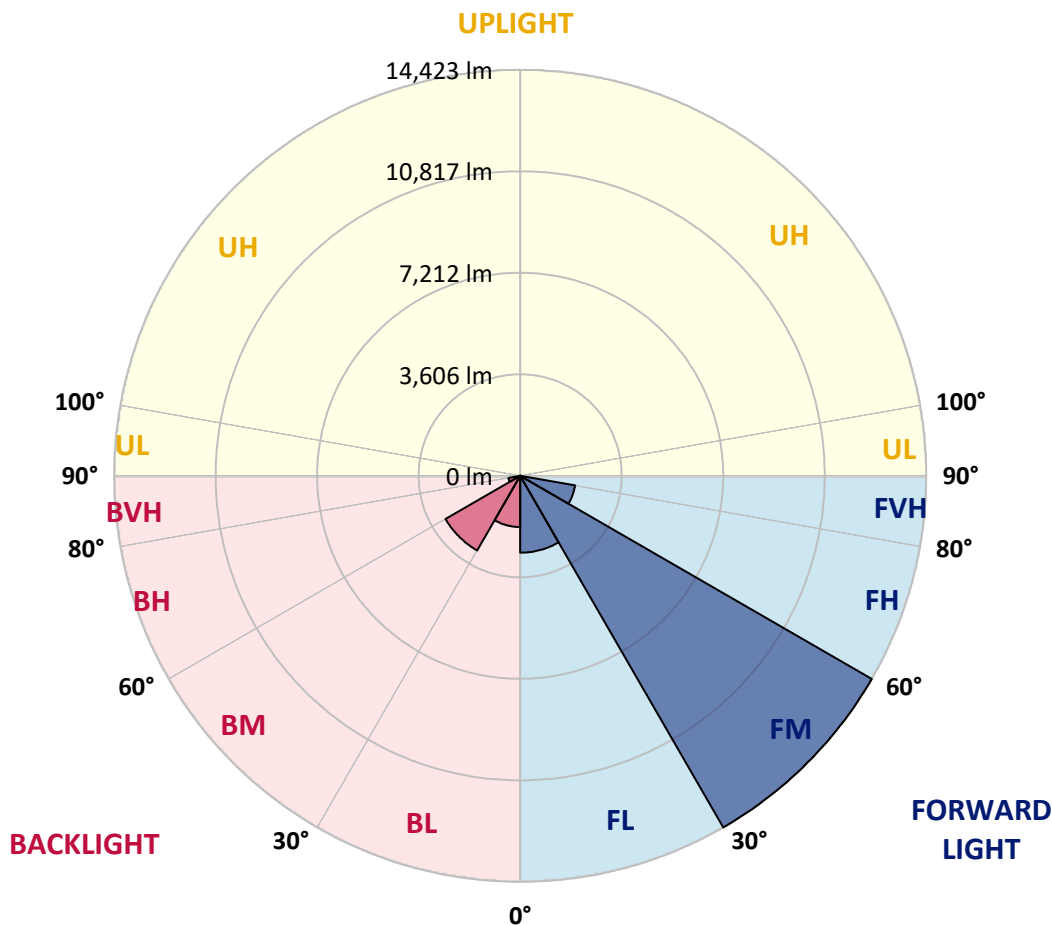
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2731.4	11.2			
FM	(30°-60°)	14423.1	58.9			
FH	(60°-80°)	1981.8	8.1			G2/5000
FVH	(80°-90°)	19.1	0.1			G1/100
BL	(0°-30°)	1819.6	7.4	B3/2500		
BM	(30°-60°)	3062.2	12.5	B3/5000		
BH	(60°-80°)	423.0	1.7	B1/500		G1/500
BVH	(80°-90°)	18.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5
2.5°	4760.2	4737.9	4737.9	4702.2	4742.4	4724.5	4737.9	4693.3	4737.9	4671.0	4724.5
5°	4782.5	4786.9	4769.1	4791.4	4791.4	4818.1	4773.6	4813.7	4836.0	4786.9	4764.6
7.5°	4898.4	4907.3	4902.8	4885.0	4920.6	4916.2	4911.7	4880.5	4889.4	4871.6	4844.9
10°	5125.7	5121.2	5143.5	5098.9	5072.2	5103.4	5112.3	5063.3	5027.6	5014.2	4929.6
12.5°	5455.5	5402.0	5370.8	5326.2	5339.6	5295.0	5375.3	5290.6	5272.8	5192.5	5107.8
15°	5722.9	5714.0	5718.5	5647.1	5566.9	5584.7	5584.7	5540.2	5513.4	5415.4	5295.0
17.5°	6271.1	6083.9	6124.1	6034.9	5968.1	5963.6	5923.5	5932.4	5861.1	5656.1	5473.3
20°	6699.0	6618.8	6556.4	6404.9	6302.3	6333.5	6315.7	6271.1	6248.9	5981.4	5722.9
22.5°	7082.3	7109.1	7006.6	6966.4	6823.8	6837.2	6872.9	6832.7	6663.4	6387.0	6003.7
25°	7621.6	7590.4	7452.3	7403.2	7269.5	7318.6	7456.7	7425.5	7318.6	6819.4	6222.1
27.5°	8259.0	8152.0	8178.8	7955.9	7826.7	7964.8	8129.8	8285.8	7982.7	7327.5	6480.6
30°	8709.2	8597.7	8588.8	8579.9	8548.7	8709.2	8900.8	9043.5	8798.3	7835.6	6908.5
32.5°	8932.0	8958.8	9034.5	9007.8	9279.7	9609.5	9810.1	10015.1	9707.6	8664.6	7474.6
35°	9524.8	9355.5	9524.8	9542.7	9823.5	10523.2	10777.3	11267.6	11191.8	9836.8	8165.4
37.5°	9872.5	9859.1	9881.4	10050.8	10322.6	11187.3	11548.4	11927.2	11784.6	10541.0	9025.6
40°	10447.4	10483.1	10478.6	10607.9	10906.5	11686.5	11833.6	12141.1	12154.5	11517.2	10291.4
42.5°	11370.1	11227.4	11133.8	11267.6	11686.5	12118.9	12413.0	12350.6	12791.9	12702.7	11918.3
45°	12199.1	12283.8	12145.6	12368.5	12520.0	12751.8	12742.9	12876.6	13438.2	13861.6	13144.0
47.5°	12974.6	13028.1	13095.0	13246.5	13576.3	13612.0	13536.2	13478.3	14253.8	14690.6	14093.4
50°	13438.2	13487.2	13799.2	14071.1	14686.1	14766.4	14810.9	14663.9	15189.8	15238.8	14989.2
52.5°	13313.4	13366.8	13803.6	14699.5	15680.1	16415.5	16281.8	16032.2	16001.0	16192.7	15818.3
55°	12208.0	12159.0	12760.7	14155.8	15992.1	17757.1	17774.9	17512.0	17008.3	16879.0	15693.5
56°	11267.6	11075.9	11842.5	13527.3	15590.9	17641.2	17841.8	17561.0	17088.5	16509.1	14922.4
57.5°	9230.7	9413.4	10175.6	11570.6	14204.8	16807.7	16923.6	16856.8	16500.2	15528.5	13130.6
60°	5090.0	5410.9	6083.9	7791.0	10113.2	12898.9	12992.5	13536.2	13603.1	11891.5	9034.5
62.5°	2161.7	2126.0	2825.8	4082.7	5758.6	7786.6	7960.4	8517.5	8620.0	6855.0	4532.9
65°	878.0	927.1	1279.2	2054.7	3044.2	3547.9	3793.0	3975.7	4314.5	2830.3	1671.4
67.5°	579.4	575.0	753.3	1172.2	1640.2	1582.3	1582.3	1671.4	1546.6	1154.4	722.1
70°	414.5	427.9	539.3	811.2	1020.7	757.7	726.5	695.3	788.9	762.2	583.9
72.5°	271.9	289.7	361.0	485.8	530.4	414.5	414.5	499.2	650.7	615.1	476.9
75°	178.3	182.7	222.9	280.8	263.0	213.9	236.2	334.3	472.5	454.6	338.7
77.5°	120.3	124.8	151.5	182.7	147.1	120.3	129.3	169.4	231.8	231.8	178.3
80°	44.6	49.0	62.4	57.9	66.9	84.7	93.6	115.9	138.2	138.2	120.3
82.5°	0.0	4.5	13.4	31.2	49.0	66.9	75.8	89.1	102.5	115.9	111.4
85°	0.0	4.5	13.4	22.3	35.7	40.1	44.6	31.2	26.7	26.7	22.3
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	8.9	4.5	4.5
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°	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5	4675.5
2.5°	4675.5	4671.0	4671.0	4657.7	4684.4	4671.0	4680.0	4675.5	4617.6	4662.1	4630.9
5°	4724.5	4755.7	4706.7	4697.8	4662.1	4675.5	4675.5	4630.9	4671.0	4666.6	4657.7
7.5°	4849.3	4795.8	4742.4	4688.9	4680.0	4666.6	4617.6	4599.7	4630.9	4595.3	4648.8
10°	4902.8	4911.7	4831.5	4760.2	4693.3	4599.7	4532.9	4492.8	4443.7	4497.2	4528.4
12.5°	5148.0	5058.8	4920.6	4809.2	4581.9	4488.3	4421.4	4403.6	4488.3	4506.1	4474.9
15°	5232.6	5219.3	5041.0	4791.4	4555.2	4443.7	4457.1	4421.4	4430.4	4385.8	4394.7
17.5°	5406.5	5254.9	5045.4	4733.4	4550.7	4524.0	4443.7	4301.1	4220.9	4185.2	4216.4
20°	5598.1	5451.0	5148.0	4755.7	4590.8	4519.5	4256.5	4082.7	3917.8	3828.7	3833.1
22.5°	5767.5	5584.7	5103.4	4764.6	4626.5	4332.3	4015.8	3672.7	3467.6	3329.5	3333.9
25°	5972.5	5714.0	5121.2	4782.5	4532.9	4033.7	3579.1	3244.8	2999.6	2906.0	2937.2
27.5°	6088.4	5794.2	5219.3	4822.6	4287.7	3610.3	3120.0	2808.0	2665.3	2620.8	2616.3
30°	6436.1	5972.5	5339.6	4742.4	3877.7	3155.6	2701.0	2509.3	2371.2	2331.1	2340.0
32.5°	6953.1	6297.9	5495.6	4532.9	3458.7	2750.0	2429.1	2286.5	2157.2	2081.5	2072.6
35°	7385.4	6855.0	5660.5	4207.5	2972.9	2438.0	2237.5	2059.2	1863.1	1778.4	1756.1
37.5°	8210.0	7483.5	5624.9	3717.2	2509.3	2206.3	2032.4	1814.0	1644.7	1528.8	1515.4
40°	9306.4	8218.9	5451.0	3120.0	2166.2	2001.2	1814.0	1604.6	1395.1	1297.0	1288.1
42.5°	10639.1	9119.2	5134.6	2513.8	1823.0	1796.2	1626.8	1386.2	1199.0	1127.6	1132.1
45°	11722.2	9890.3	4813.7	2019.1	1568.9	1595.6	1448.6	1221.2	1092.0	1034.0	1034.0
47.5°	12684.9	10411.8	4466.0	1667.0	1332.7	1395.1	1265.8	1132.1	1020.7	976.1	967.2
50°	13612.0	10942.2	4118.4	1350.5	1136.6	1199.0	1185.6	1078.6	989.5	936.0	940.4
52.5°	14191.4	11026.9	3677.1	1105.4	993.9	1065.2	1109.8	1011.8	913.7	882.5	873.6
55°	13482.7	9934.9	2852.5	909.2	842.4	936.0	1020.7	909.2	833.5	780.0	775.5
56°	12528.9	8883.0	2384.5	837.9	797.8	900.3	989.5	869.1	784.4	753.3	731.0
57.5°	10607.9	7269.5	1760.6	744.3	739.9	837.9	940.4	829.0	731.0	704.2	704.2
60°	6614.3	4091.6	1065.2	624.0	641.8	744.3	846.8	739.9	650.7	650.7	664.1
62.5°	3013.0	1702.6	646.3	530.4	552.7	641.8	753.3	668.6	619.5	668.6	677.5
65°	1025.1	735.4	468.0	423.4	436.8	530.4	646.3	677.5	673.0	704.2	722.1
67.5°	575.0	472.5	392.2	352.1	343.2	392.2	530.4	677.5	650.7	637.4	646.3
70°	485.8	401.1	347.7	312.0	298.6	316.5	410.1	512.6	459.1	445.7	436.8
72.5°	392.2	334.3	303.1	280.8	240.7	205.0	187.2	196.1	218.4	231.8	254.1
75°	276.3	254.1	254.1	227.3	173.8	129.3	102.5	84.7	57.9	40.1	44.6
77.5°	156.0	156.0	160.5	138.2	111.4	84.7	62.4	44.6	22.3	8.9	4.5
80°	107.0	115.9	124.8	111.4	93.6	75.8	53.5	31.2	13.4	0.0	0.0
82.5°	107.0	120.3	129.3	111.4	93.6	71.3	53.5	31.2	13.4	4.5	0.0
85°	22.3	26.7	31.2	35.7	53.5	53.5	40.1	26.7	13.4	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0	0.0
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)