

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: P533264

Luminaire Tested: **GALN-SA8C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39381 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 429
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

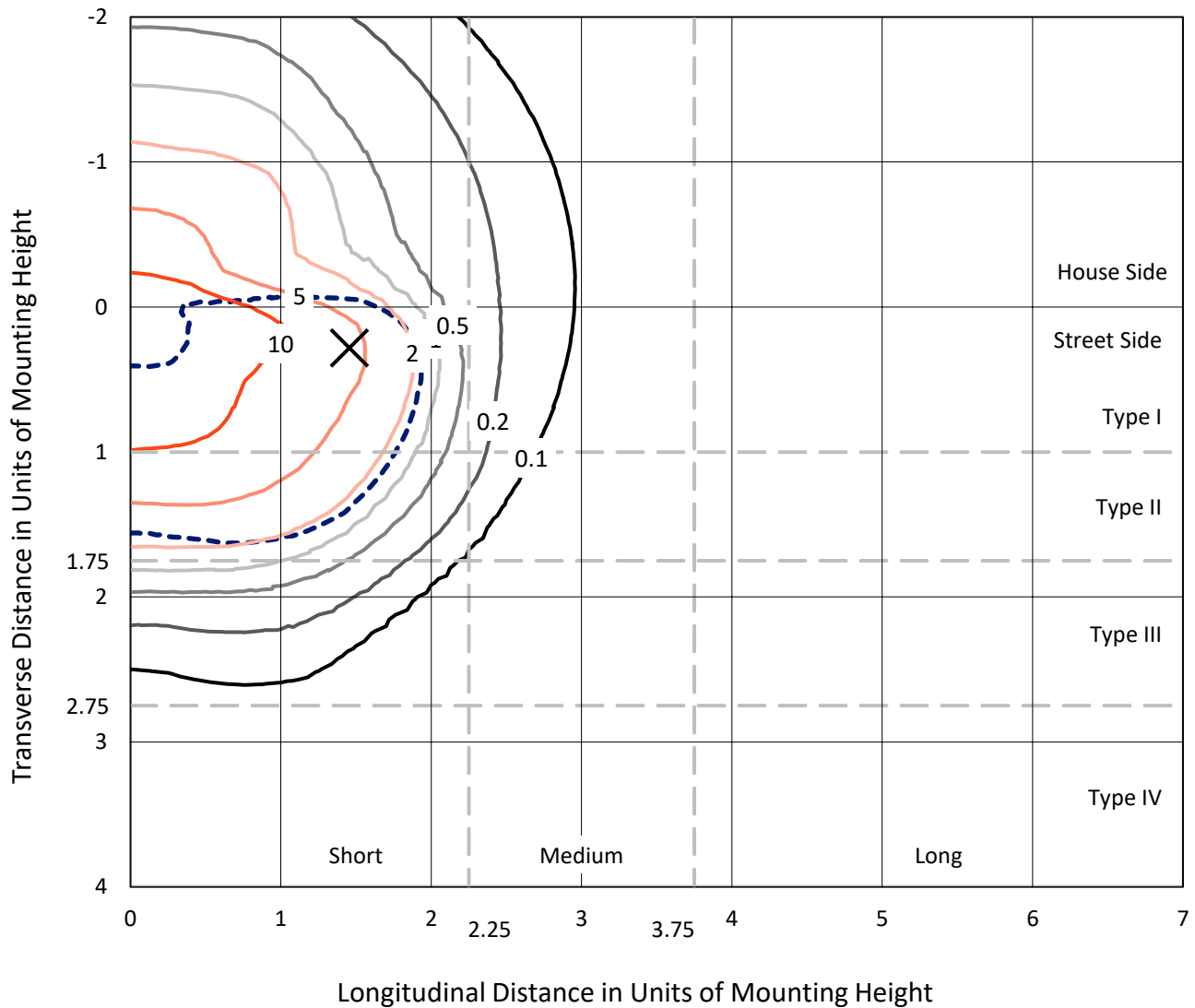


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

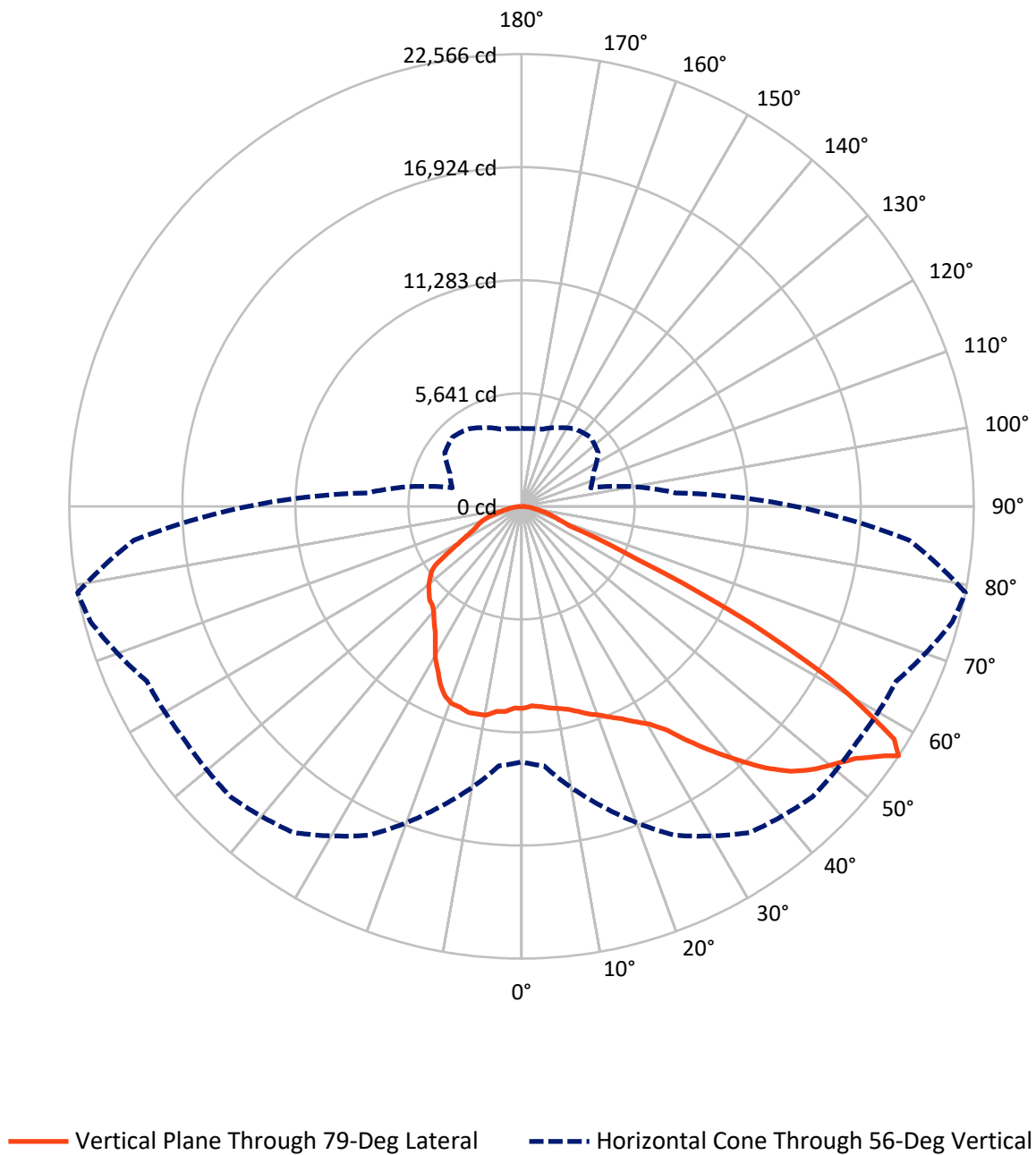


Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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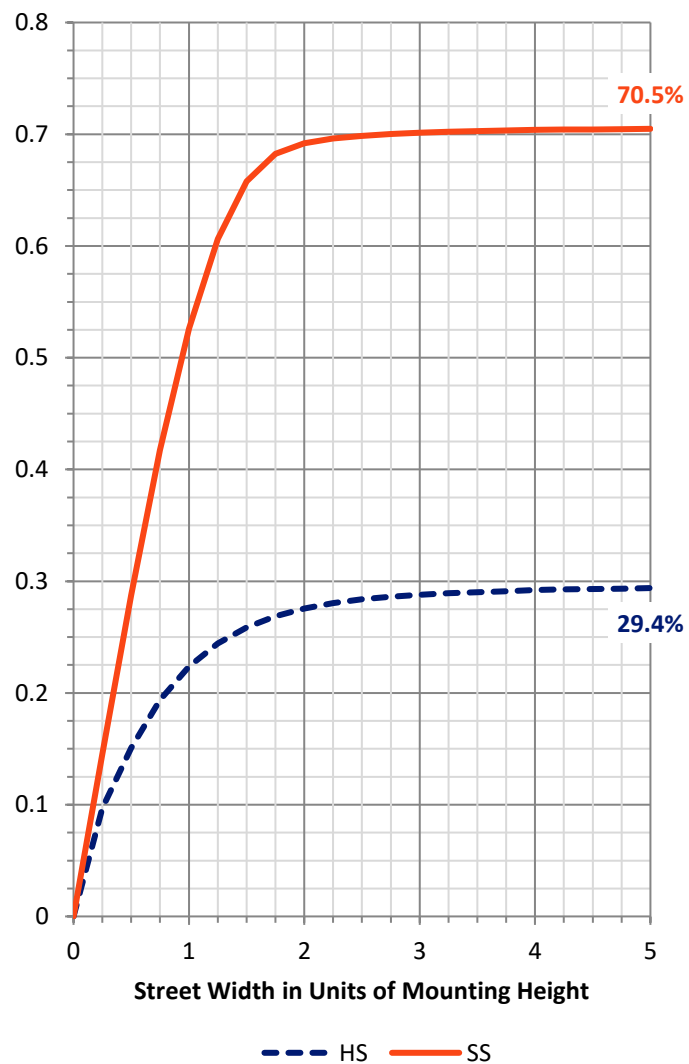
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11630.1	0.0	11630.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	27750.9	0.0	27750.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	39381.0	0.0	39381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.1	2.3
10°-20°	2507.1	6.4
20°-30°	4289.2	10.9
30°-40°	6573.7	16.7
40°-50°	8884.4	22.6
50°-60°	10204.0	25.9
60°-70°	4651.3	11.8
70°-80°	1146.8	2.9
80°-90°	208.4	0.5
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°	39381.0	100.0
0°-180°	39381.0	100.0

Coefficient of Utilization



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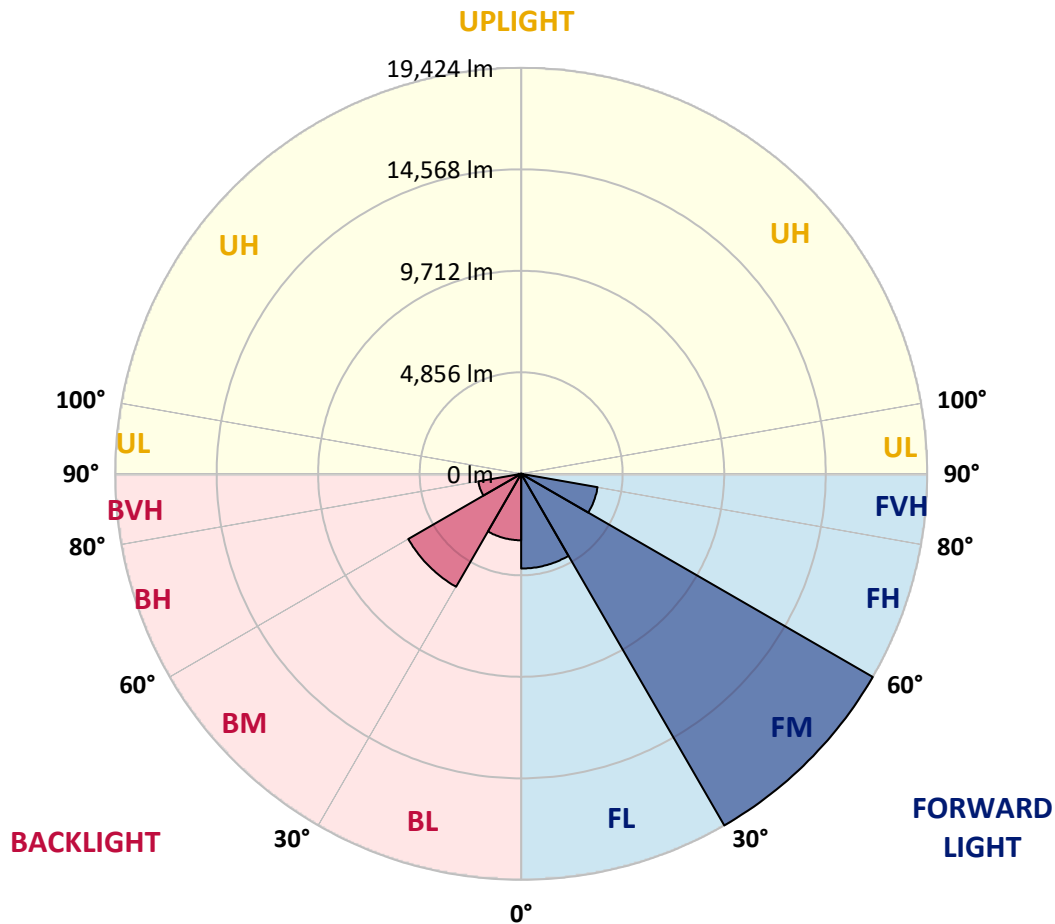
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4531.1	11.5			
FM	(30°-60°)	19423.9	49.3			
FH	(60°-80°)	3712.7	9.4			G2/5000
FVH	(80°-90°)	83.2	0.2			G1/100
BL	(0°-30°)	3181.3	8.1	B4/5000		
BM	(30°-60°)	6238.2	15.8	B4/8500		
BH	(60°-80°)	2085.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	125.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0
2.5°	9585.5	9561.0	9619.8	9664.0	9717.9	9786.6	9820.9	9840.6	10012.3	9968.1	10100.6
5°	9379.4	9315.7	9359.8	9394.2	9487.4	9570.8	9664.0	9811.1	9968.1	10036.8	10198.7
7.5°	9197.9	9163.6	9153.8	9178.3	9305.9	9413.8	9575.7	9791.5	10046.6	10159.4	10252.6
10°	8898.7	8849.6	8923.2	9085.1	9119.5	9345.1	9531.5	9840.6	10061.3	10257.5	10532.3
12.5°	8766.3	8717.2	8731.9	8825.1	9065.5	9281.3	9502.1	9850.4	10316.4	10394.9	10762.8
15°	8977.2	8928.1	8942.9	8918.3	9148.9	9261.7	9610.0	10046.6	10493.0	10625.5	11017.9
17.5°	9457.9	9462.8	9399.1	9345.1	9291.1	9531.5	9771.9	10164.3	10561.7	10895.3	11189.6
20°	10375.3	10213.4	10085.8	9781.7	9698.3	9801.3	10105.5	10483.2	10841.3	11116.0	11449.6
22.5°	11081.7	11096.4	10914.9	10414.5	10233.0	10277.2	10537.2	10846.2	11238.7	11434.9	11817.5
25°	12106.9	12003.9	11807.7	11410.4	11003.2	11037.5	11228.8	11508.5	11616.4	11753.7	12170.7
27.5°	13043.9	13073.3	12685.8	12313.0	11807.7	11709.6	12053.0	12102.0	11920.5	12180.5	12322.8
30°	13995.6	13971.1	13716.0	13279.4	12783.9	12803.5	12955.6	12715.2	12465.1	12607.3	12705.4
32.5°	14981.6	14702.0	14692.2	14299.7	13922.0	13740.5	13554.1	13671.8	13284.3	13313.7	13220.5
35°	15771.4	15810.6	15585.0	15305.4	15119.0	14800.1	14289.9	14500.9	14427.3	14392.9	13990.7
37.5°	16345.4	16193.3	16306.1	16212.9	16036.3	15639.0	15109.2	15310.3	15344.6	15511.4	15045.4
40°	16816.3	16752.5	17051.8	17100.8	16978.2	16119.7	15168.0	15766.5	16281.6	16644.6	16090.3
42.5°	17041.9	17179.3	17493.3	17871.0	17596.3	16678.9	15472.2	16114.8	17262.7	17836.6	17081.2
45°	17346.1	17169.5	17635.5	18327.2	18332.1	17149.9	15766.5	16585.7	18028.0	18861.9	17758.2
47.5°	17037.0	17125.3	17606.1	18484.2	18709.8	17645.3	16561.2	17252.9	18871.7	19612.5	18386.1
50°	16345.4	16522.0	17400.1	18312.5	18994.4	18170.2	17473.6	17974.0	19651.7	20215.8	18489.1
52.5°	15624.2	15722.3	17095.9	18444.9	19121.9	18847.2	18695.1	18969.8	20603.4	20897.7	18616.6
55°	13662.0	14128.0	16090.3	18386.1	19744.9	20068.7	19950.9	20353.2	21682.6	21976.9	19313.2
56°	12754.5	12999.8	15486.9	18111.4	19867.6	20515.1	20456.2	20637.7	22256.6	22565.6	19421.1
57.5°	11076.8	11096.4	13205.8	16894.8	19406.4	20647.5	20588.7	20730.9	22143.7	21932.8	18474.4
60°	6931.6	7235.7	8987.0	12994.9	16502.3	19156.2	19489.8	18346.8	18670.6	18224.2	14373.3
62.5°	3590.9	3546.7	4709.3	7598.7	10954.1	13716.0	14025.0	13971.1	13470.7	12818.3	9389.3
65°	1790.5	1800.3	2462.6	3762.6	5612.0	7181.8	8045.1	8138.3	6808.9	6264.4	4454.3
67.5°	1300.0	1349.0	1770.9	2300.7	2644.1	2958.1	3625.2	3556.5	2693.2	2560.7	2374.3
70°	1010.5	1054.7	1437.3	1756.2	1594.3	1594.3	1736.6	1795.4	1918.1	1972.0	2035.8
72.5°	735.8	770.2	1098.8	1211.7	1044.9	1123.4	1300.0	1437.3	1564.9	1584.5	1658.1
75°	505.3	534.7	721.1	667.2	627.9	775.1	951.7	1079.2	1172.4	1221.5	1265.6
77.5°	328.7	338.5	412.1	348.3	402.3	500.4	618.1	726.0	819.2	858.5	868.3
80°	147.2	161.9	176.6	220.8	279.6	358.1	441.5	529.8	588.7	603.4	632.8
82.5°	83.4	83.4	107.9	157.0	206.0	260.0	318.9	382.6	451.3	466.0	461.1
85°	44.2	44.2	63.8	93.2	127.5	152.1	147.2	152.1	161.9	186.4	181.5
87.5°	14.7	14.7	19.6	19.6	24.5	29.4	24.5	34.3	44.2	44.2	44.2
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°	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0	10076.0
2.5°	10061.3	10105.5	10046.6	10174.1	10174.1	10149.6	10027.0	10066.2	10095.7	10095.7	10120.2
5°	10252.6	10237.9	10277.2	10125.1	10031.9	9997.5	9796.4	9698.3	9614.9	9610.0	9536.4
7.5°	10360.6	10321.3	10306.6	10193.8	9781.7	9531.5	9099.8	8849.6	8795.7	8604.4	8678.0
10°	10532.3	10605.8	10532.3	9919.1	9345.1	8771.2	8349.3	7961.7	7809.7	7687.0	7613.4
12.5°	10885.5	10851.1	10424.3	9595.3	8790.8	8108.9	7481.0	7073.8	6921.8	6813.8	6804.0
15°	11184.7	11013.0	10360.6	9085.1	7927.4	7201.4	6686.3	6396.9	6328.2	6338.0	6382.1
17.5°	11287.7	11170.0	10027.0	8555.3	7284.8	6431.2	6190.8	6146.7	6210.5	6284.0	6303.7
20°	11449.6	11263.2	9889.6	7834.2	6490.1	5950.5	5935.7	6092.7	6210.5	6318.4	6333.1
22.5°	11788.1	11317.1	9443.2	7152.3	5945.5	5808.2	5950.5	6082.9	6264.4	6352.7	6274.2
25°	11886.2	11199.4	8815.3	6333.1	5602.2	5719.9	5872.0	6053.5	6181.0	6230.1	6264.4
27.5°	11969.6	11017.9	7966.6	5788.6	5494.2	5715.0	5872.0	6024.0	6092.7	6136.9	6176.1
30°	12205.1	10963.9	7230.8	5425.6	5425.6	5616.9	5818.0	5857.2	5950.5	6004.4	6073.1
32.5°	12322.8	10591.1	6475.4	5195.0	5356.9	5665.9	5680.6	5754.2	5759.1	5803.3	5729.7
35°	12631.8	10326.2	5773.9	5028.2	5386.3	5616.9	5690.5	5646.3	5405.9	5288.2	5312.7
37.5°	12857.5	10193.8	5268.6	5008.6	5391.2	5670.8	5710.1	5376.5	5126.3	4930.1	4979.2
40°	13465.8	9865.1	4885.9	4974.2	5435.4	5729.7	5621.8	5258.8	4807.5	4606.3	4572.0
42.5°	13931.8	9629.6	4645.6	4935.0	5469.7	5813.1	5577.6	5023.3	4562.2	4375.8	4424.8
45°	14471.4	9575.7	4518.0	4944.8	5528.6	5857.2	5523.7	4841.8	4351.2	4277.7	4262.9
47.5°	14662.7	9188.1	4380.7	4861.4	5513.9	5842.5	5342.2	4704.4	4272.8	4282.6	4321.8
50°	14343.9	8790.8	4277.7	4689.7	5415.7	5710.1	5057.6	4522.9	4228.6	4351.2	4419.9
52.5°	13936.7	8383.6	4066.7	4459.2	5214.6	5504.0	4925.2	4513.1	4184.5	4145.2	4159.9
55°	14059.4	8050.0	3772.4	4145.2	4890.9	5121.4	4778.0	4419.9	4076.5	3929.4	3978.4
56°	13662.0	7706.6	3581.1	3949.0	4670.1	4876.1	4704.4	4336.5	3988.2	3890.1	3890.1
57.5°	12538.6	6553.8	3330.9	3635.0	4204.1	4449.4	4562.2	4287.5	3890.1	3718.4	3723.3
60°	9247.0	4660.3	2987.5	3203.3	3483.0	3679.2	4204.1	4150.1	3644.8	3527.1	3483.0
62.5°	5700.3	3404.5	2742.2	2825.6	2967.9	3129.8	3669.4	3757.7	3384.8	3257.3	3227.9
65°	3193.5	2604.9	2555.8	2590.1	2658.8	2742.2	3046.4	3242.6	2987.5	2791.3	2781.5
67.5°	2335.1	2330.1	2369.4	2398.8	2428.3	2428.3	2501.8	2580.3	2546.0	2389.0	2374.3
70°	2075.1	2089.8	2119.2	2124.1	2133.9	2099.6	2040.7	2016.2	2055.4	1957.3	1937.7
72.5°	1712.0	1761.1	1795.4	1800.3	1746.4	1702.2	1623.7	1540.3	1510.9	1491.3	1486.4
75°	1314.7	1349.0	1363.7	1358.8	1339.2	1275.4	1182.2	1098.8	1044.9	986.0	1015.5
77.5°	887.9	937.0	961.5	961.5	932.1	833.9	789.8	726.0	672.1	608.3	618.1
80°	623.0	657.3	696.6	691.7	642.6	593.6	529.8	470.9	426.8	377.7	372.8
82.5°	466.0	485.7	505.3	495.5	461.1	412.1	367.9	314.0	264.9	230.6	230.6
85°	166.8	181.5	220.8	230.6	250.2	250.2	210.9	176.6	142.3	117.7	117.7
87.5°	49.1	49.1	54.0	54.0	49.1	54.0	44.2	49.1	54.0	34.3	34.3
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)