

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: P533261

Luminaire Tested: **GALN-SA8C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533261
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-SA8C-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 26940 lumens
Efficiency: N/A
Efficacy: 62.8 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

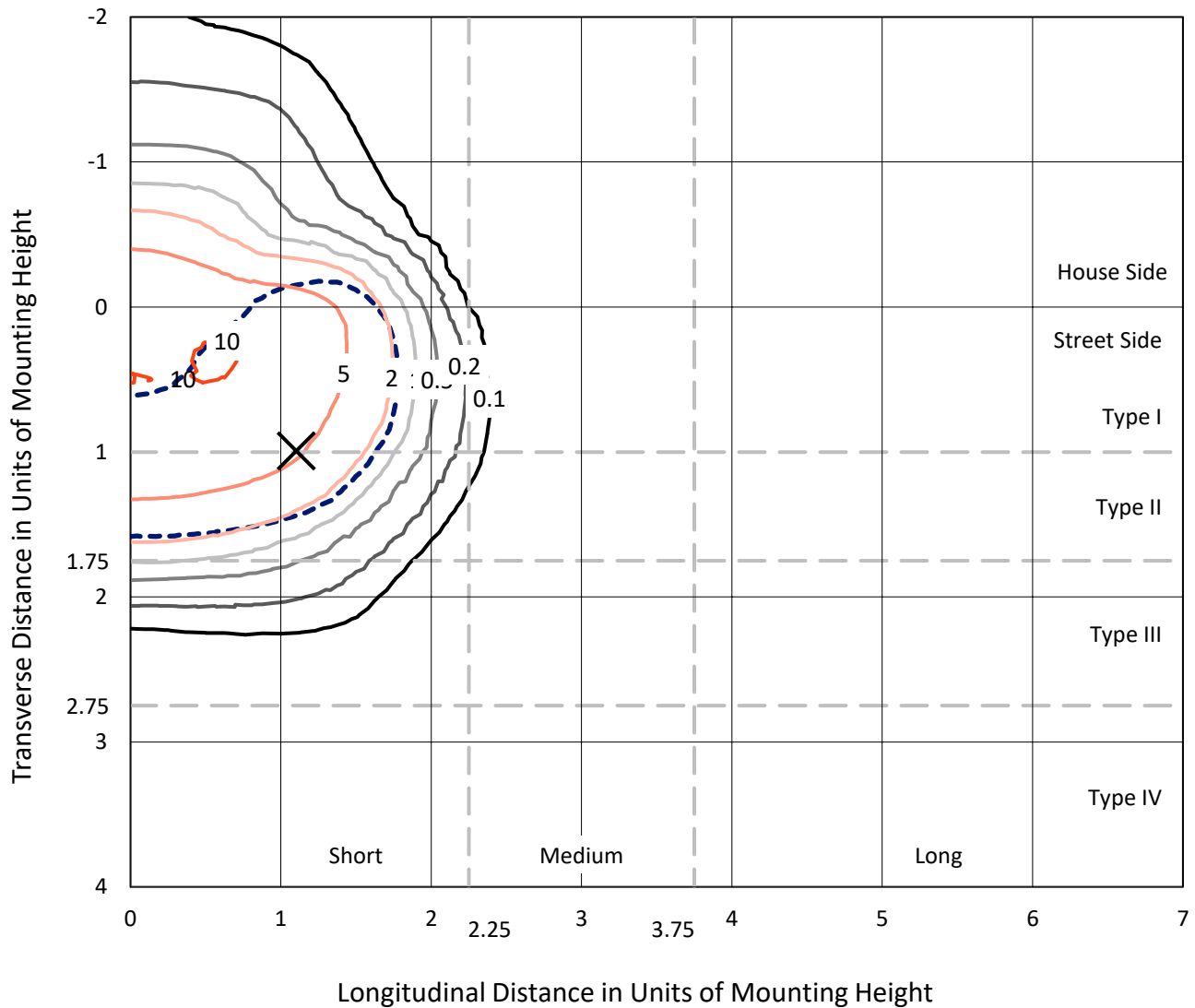
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

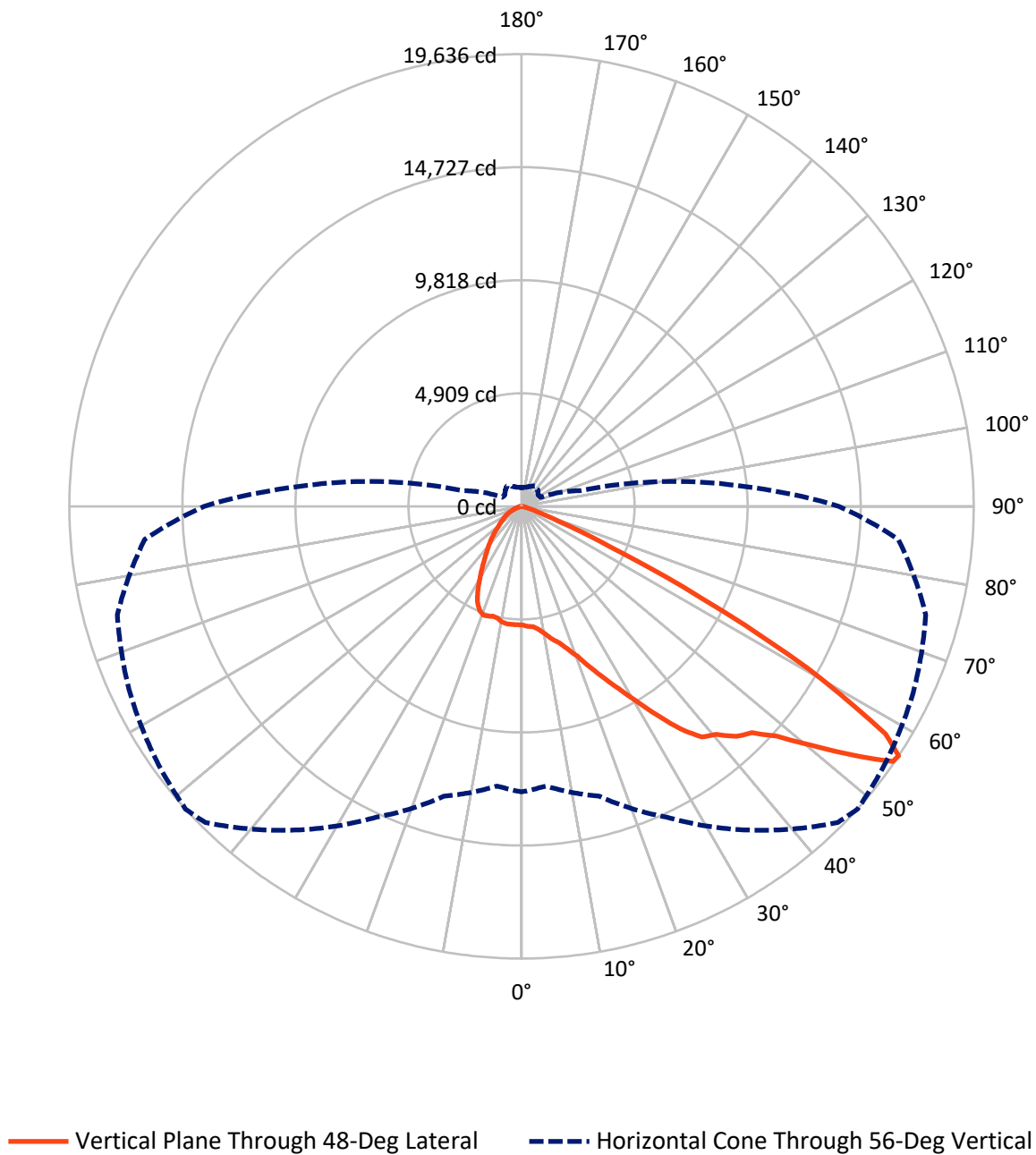
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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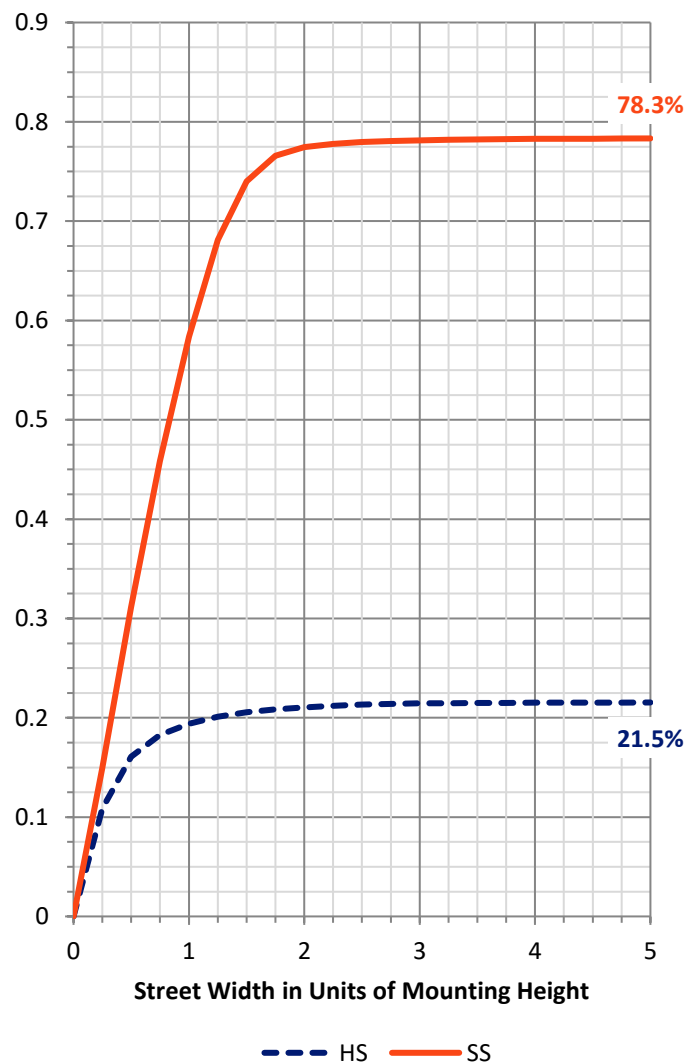
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5858.9	0.0	5858.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	21081.1	0.0	21081.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	26940.0	0.0	26940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.2	1.9
10°-20°	1601.9	5.9
20°-30°	2905.4	10.8
30°-40°	4563.9	16.9
40°-50°	6657.9	24.7
50°-60°	8021.4	29.8
60°-70°	2348.6	8.7
70°-80°	297.9	1.1
80°-90°	41.8	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°	26940.0	100.0
0°-180°	26940.0	100.0

Coefficient of Utilization



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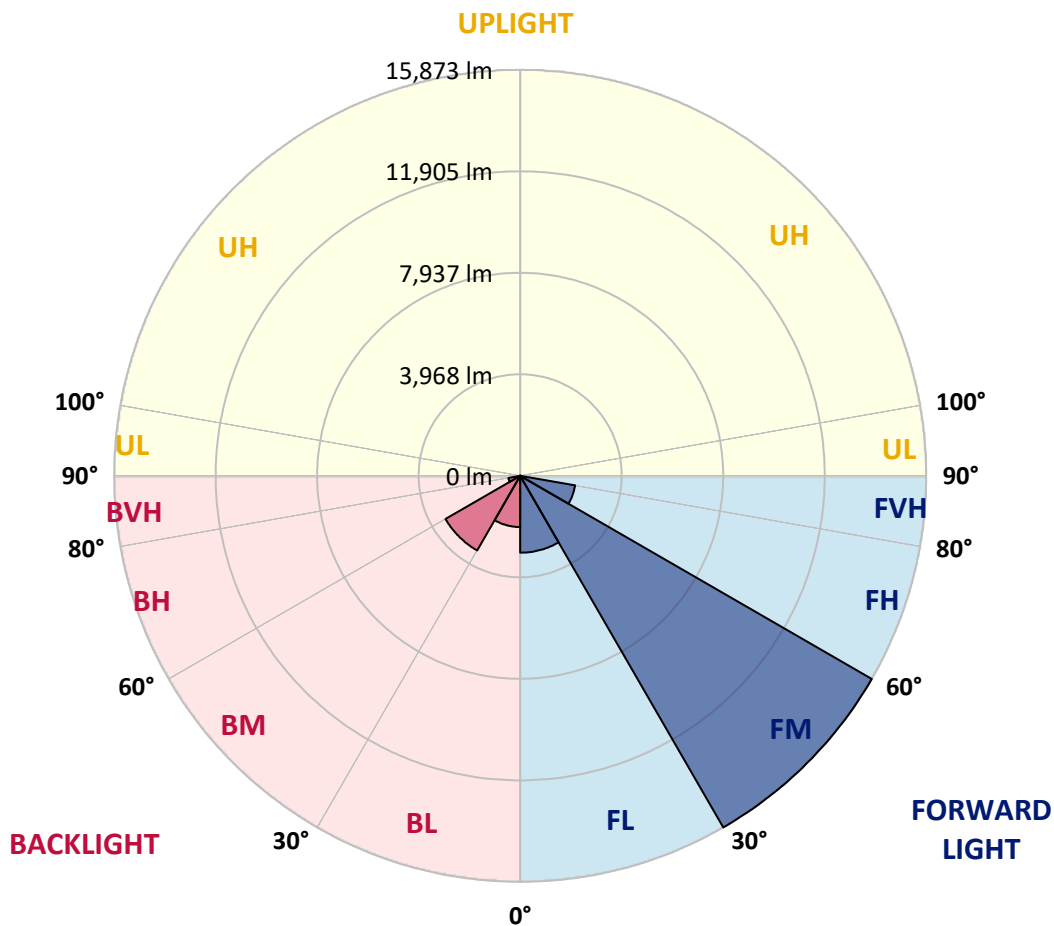
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3006.0	11.2			
FM	(30°-60°)	15873.1	58.9			
FH	(60°-80°)	2181.0	8.1			G2/5000
FVH	(80°-90°)	21.0	0.1			G1/100
BL	(0°-30°)	2002.6	7.4	B3/2500		
BM	(30°-60°)	3370.0	12.5	B3/5000		
BH	(60°-80°)	465.5	1.7	B1/500		G1/500
BVH	(80°-90°)	20.8	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°	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6
2.5°	5238.8	5214.2	5214.2	5175.0	5219.1	5199.5	5214.2	5165.2	5214.2	5140.6	5199.5
5°	5263.3	5268.2	5248.6	5273.1	5273.1	5302.5	5253.5	5297.6	5322.1	5268.2	5243.7
7.5°	5390.8	5400.6	5395.7	5376.1	5415.3	5410.4	5405.5	5371.2	5381.0	5361.4	5331.9
10°	5641.0	5636.1	5660.6	5611.5	5582.1	5616.5	5626.3	5572.3	5533.1	5518.3	5425.1
12.5°	6004.0	5945.1	5910.8	5861.7	5876.4	5827.4	5915.7	5822.5	5802.8	5714.6	5621.4
15°	6298.3	6288.5	6293.4	6214.9	6126.6	6146.2	6146.2	6097.2	6067.7	5959.8	5827.4
17.5°	6901.6	6695.6	6739.7	6641.6	6568.1	6563.2	6519.0	6528.8	6450.3	6224.7	6023.6
20°	7372.5	7284.2	7215.5	7048.8	6935.9	6970.3	6950.7	6901.6	6877.1	6582.8	6298.3
22.5°	7794.4	7823.8	7711.0	7666.8	7509.9	7524.6	7563.8	7519.7	7333.3	7029.1	6607.3
25°	8387.9	8353.6	8201.5	8147.5	8000.4	8054.3	8206.4	8172.1	8054.3	7505.0	6847.7
27.5°	9089.3	8971.6	9001.0	8755.8	8613.5	8765.6	8947.1	9118.8	8785.2	8064.1	7132.2
30°	9584.8	9462.1	9452.3	9442.5	9408.2	9584.8	9795.7	9952.6	9682.9	8623.3	7603.1
32.5°	9830.0	9859.4	9942.8	9913.4	10212.6	10575.6	10796.3	11022.0	10683.5	9535.7	8226.0
35°	10482.4	10296.0	10482.4	10502.0	10811.1	11581.2	11860.8	12400.3	12316.9	10825.8	8986.3
37.5°	10865.0	10850.3	10874.8	11061.2	11360.4	12312.0	12709.4	13126.3	12969.3	11600.8	9933.0
40°	11497.8	11537.0	11532.1	11674.4	12003.0	12861.4	13023.3	13361.8	13376.5	12675.0	11326.1
42.5°	12513.2	12356.2	12253.2	12400.3	12861.4	13337.2	13661.0	13592.3	14077.9	13979.8	13116.5
45°	13425.5	13518.7	13366.7	13611.9	13778.7	14033.8	14024.0	14171.1	14789.2	15255.2	14465.4
47.5°	14279.0	14337.9	14411.5	14578.2	14941.2	14980.5	14897.1	14833.3	15686.8	16167.5	15510.2
50°	14789.2	14843.1	15186.5	15485.7	16162.6	16250.9	16300.0	16138.1	16716.9	16770.9	16496.2
52.5°	14651.8	14710.7	15191.4	16177.3	17256.5	18065.8	17918.7	17644.0	17609.7	17820.6	17408.5
55°	13435.3	13381.4	14043.6	15578.9	17599.8	19542.3	19561.9	19272.5	18718.2	18576.0	17271.2
56°	12400.3	12189.4	13033.1	14887.3	17158.4	19414.8	19635.5	19326.5	18806.5	18168.8	16422.6
57.5°	10158.7	10359.8	11198.6	12733.9	15632.9	18497.5	18625.0	18551.5	18159.0	17089.7	14450.7
60°	5601.7	5954.9	6695.6	8574.3	11129.9	14195.6	14298.6	14897.1	14970.7	13087.1	9942.8
62.5°	2379.0	2339.8	3109.9	4493.2	6337.5	8569.4	8760.7	9373.8	9486.7	7544.2	4988.6
65°	966.3	1020.3	1407.8	2261.3	3350.2	3904.5	4174.3	4375.4	4748.2	3114.8	1839.4
67.5°	637.7	632.8	829.0	1290.1	1805.1	1741.3	1741.3	1839.4	1702.1	1270.4	794.6
70°	456.2	470.9	593.5	892.7	1123.3	833.9	799.5	765.2	868.2	838.8	642.6
72.5°	299.2	318.8	397.3	534.7	583.7	456.2	456.2	549.4	716.2	676.9	524.9
75°	196.2	201.1	245.3	309.0	289.4	235.4	260.0	367.9	520.0	500.3	372.8
77.5°	132.4	137.3	166.8	201.1	161.9	132.4	142.3	186.4	255.1	255.1	196.2
80°	49.1	54.0	68.7	63.8	73.6	93.2	103.0	127.5	152.1	152.1	132.4
82.5°	0.0	4.9	14.7	34.3	54.0	73.6	83.4	98.1	112.8	127.5	122.6
85°	0.0	4.9	14.7	24.5	39.2	44.1	49.1	34.3	29.4	29.4	24.5
87.5°	0.0	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.8	4.9	4.9
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°	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6	5145.6
2.5°	5145.6	5140.6	5140.6	5125.9	5155.4	5140.6	5150.5	5145.6	5081.8	5130.8	5096.5
5°	5199.5	5233.8	5179.9	5170.1	5130.8	5145.6	5145.6	5096.5	5140.6	5135.7	5125.9
7.5°	5336.9	5278.0	5219.1	5160.3	5150.5	5135.7	5081.8	5062.2	5096.5	5057.3	5116.1
10°	5395.7	5405.5	5317.2	5238.8	5165.2	5062.2	4988.6	4944.4	4890.5	4949.3	4983.7
12.5°	5665.5	5567.4	5415.3	5292.7	5042.5	4939.5	4866.0	4846.3	4939.5	4959.2	4924.8
15°	5758.7	5744.0	5547.8	5273.1	5013.1	4890.5	4905.2	4866.0	4875.8	4826.7	4836.5
17.5°	5950.0	5783.2	5552.7	5209.3	5008.2	4978.8	4890.5	4733.5	4645.2	4606.0	4640.3
20°	6160.9	5999.1	5665.5	5233.8	5052.4	4973.9	4684.5	4493.2	4311.7	4213.6	4218.5
22.5°	6347.3	6146.2	5616.5	5243.7	5091.6	4767.9	4419.6	4041.9	3816.2	3664.2	3669.1
25°	6573.0	6288.5	5636.1	5263.3	4988.6	4439.2	3938.9	3571.0	3301.2	3198.2	3232.5
27.5°	6700.5	6376.8	5744.0	5307.4	4718.8	3973.2	3433.6	3090.3	2933.3	2884.3	2879.4
30°	7083.1	6573.0	5876.4	5219.1	4267.5	3472.9	2972.5	2761.6	2609.6	2565.4	2575.2
32.5°	7652.1	6931.0	6048.1	4988.6	3806.4	3026.5	2673.3	2516.4	2374.1	2290.7	2280.9
35°	8127.9	7544.2	6229.6	4630.5	3271.8	2683.1	2462.4	2266.2	2050.4	1957.2	1932.6
37.5°	9035.4	8235.8	6190.4	4090.9	2761.6	2428.1	2236.8	1996.4	1810.0	1682.5	1667.8
40°	10242.1	9045.2	5999.1	3433.6	2383.9	2202.4	1996.4	1765.9	1535.3	1427.4	1417.6
42.5°	11708.7	10036.0	5650.8	2766.5	2006.2	1976.8	1790.4	1525.5	1319.5	1241.0	1245.9
45°	12900.7	10884.6	5297.6	2222.1	1726.6	1756.1	1594.2	1344.0	1201.8	1138.0	1138.0
47.5°	13960.2	11458.5	4915.0	1834.5	1466.7	1535.3	1393.1	1245.9	1123.3	1074.2	1064.4
50°	14980.5	12042.3	4532.4	1486.3	1250.8	1319.5	1304.8	1187.1	1089.0	1030.1	1035.0
52.5°	15618.1	12135.5	4046.8	1216.5	1093.9	1172.3	1221.4	1113.5	1005.6	971.2	961.4
55°	14838.2	10933.7	3139.3	1000.7	927.1	1030.1	1123.3	1000.7	917.3	858.4	853.5
56°	13788.5	9776.1	2624.3	922.2	878.0	990.8	1089.0	956.5	863.3	829.0	804.5
57.5°	11674.4	8000.4	1937.6	819.2	814.3	922.2	1035.0	912.4	804.5	775.0	775.0
60°	7279.3	4503.0	1172.3	686.7	706.3	819.2	932.0	814.3	716.2	716.2	730.9
62.5°	3315.9	1873.8	711.3	583.7	608.2	706.3	829.0	735.8	681.8	735.8	745.6
65°	1128.2	809.4	515.0	466.0	480.7	583.7	711.3	745.6	740.7	775.0	794.6
67.5°	632.8	520.0	431.7	387.5	377.7	431.7	583.7	745.6	716.2	701.4	711.3
70°	534.7	441.5	382.6	343.4	328.6	348.3	451.3	564.1	505.2	490.5	480.7
72.5°	431.7	367.9	333.6	309.0	264.9	225.6	206.0	215.8	240.4	255.1	279.6
75°	304.1	279.6	279.6	250.2	191.3	142.3	112.8	93.2	63.8	44.1	49.1
77.5°	171.7	171.7	176.6	152.1	122.6	93.2	68.7	49.1	24.5	9.8	4.9
80°	117.7	127.5	137.3	122.6	103.0	83.4	58.9	34.3	14.7	0.0	0.0
82.5°	117.7	132.4	142.3	122.6	103.0	78.5	58.9	34.3	14.7	4.9	0.0
85°	24.5	29.4	34.3	39.2	58.9	58.9	44.1	29.4	14.7	4.9	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	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)