

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: P533495

Luminaire Tested: **GALN-SA8D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533495
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-SA8D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA 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: 29644 lumens
Efficiency: N/A
Efficacy: 60.1 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

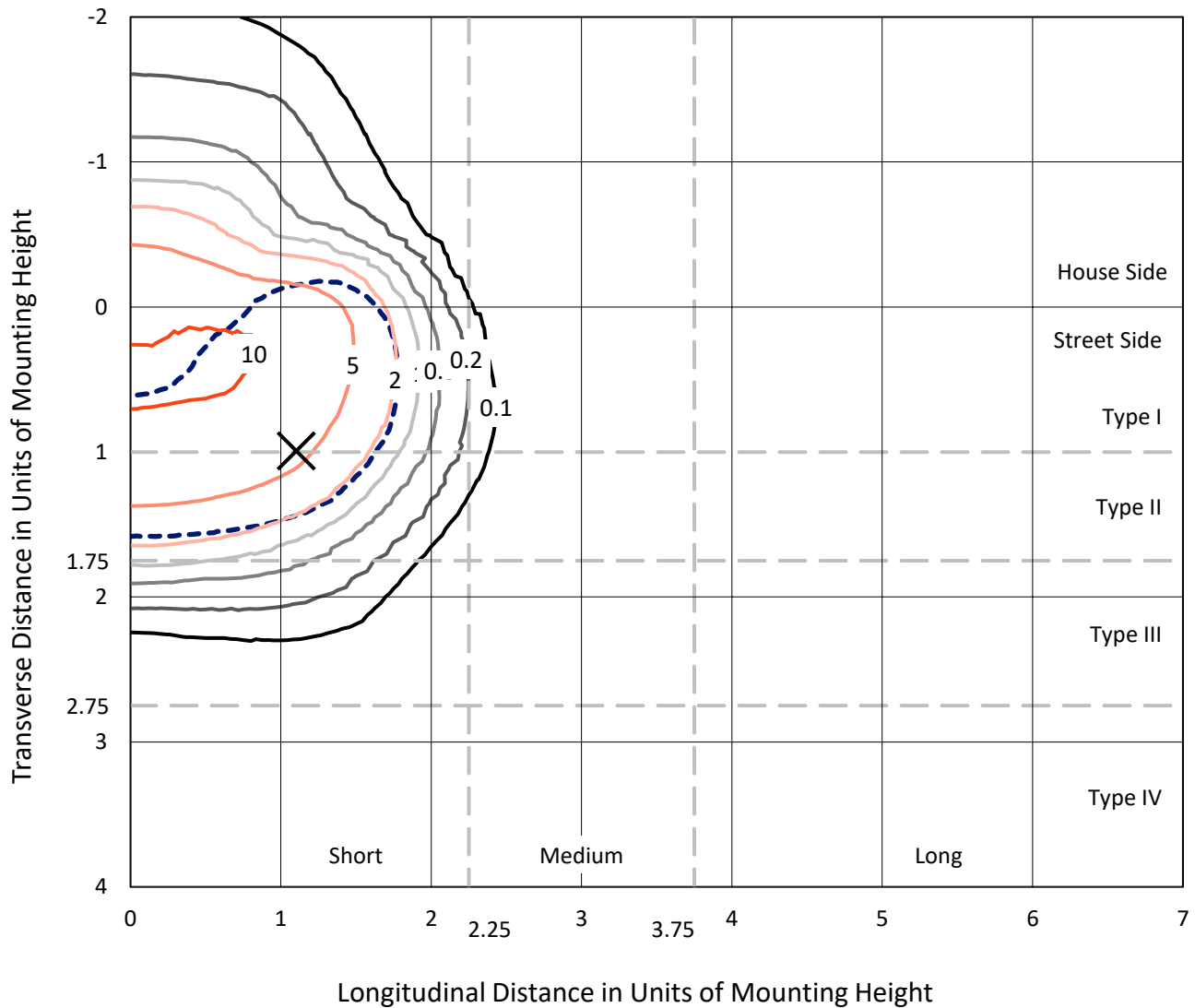
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

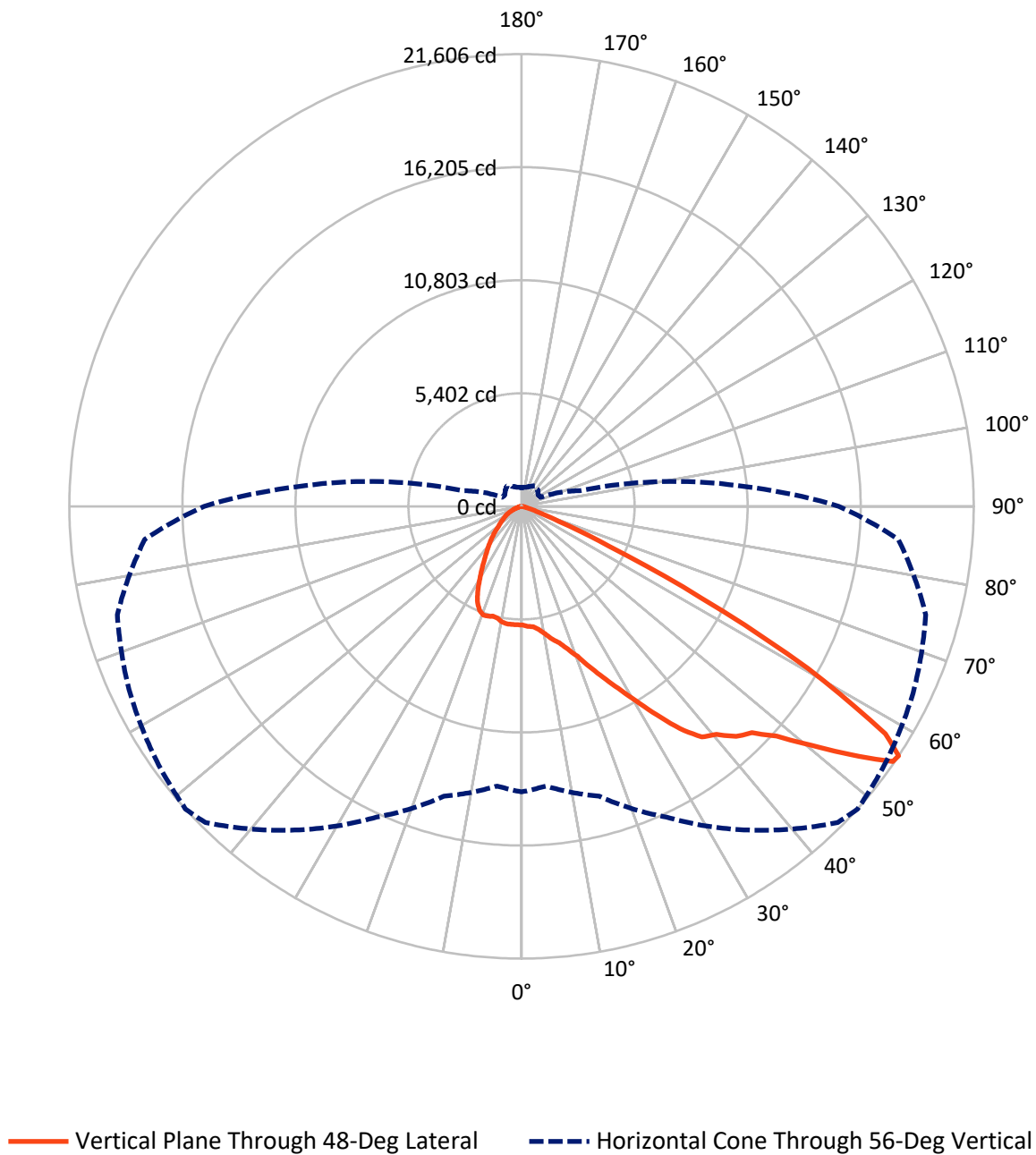
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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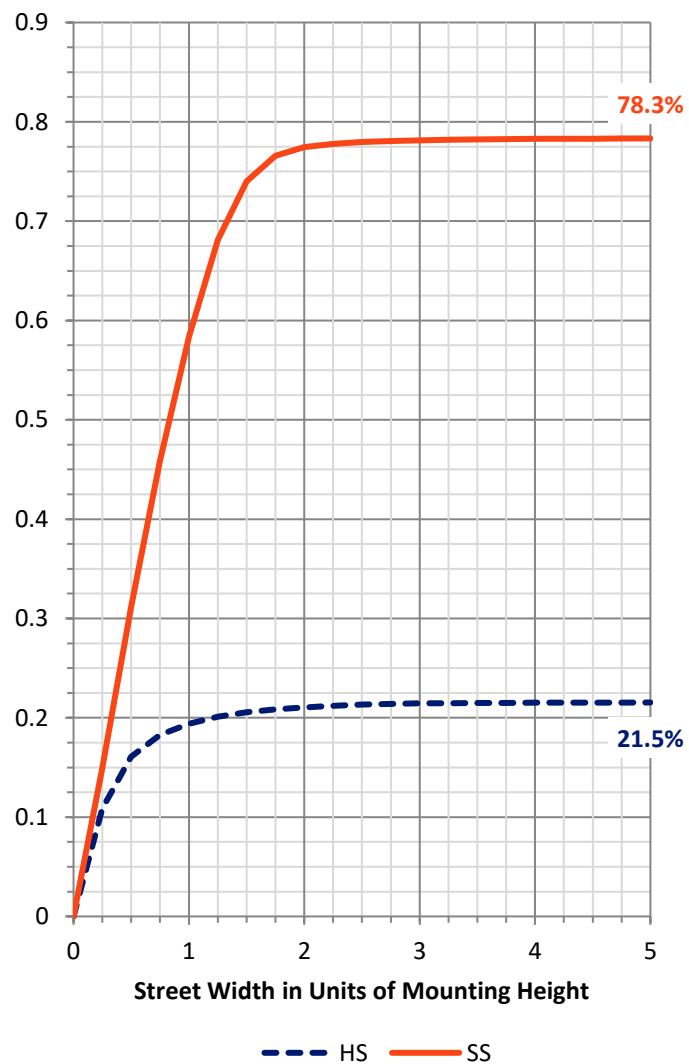
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6447.0	0.0	6447.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	23197.0	0.0	23197.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	29644.0	0.0	29644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.5	1.9
10°-20°	1762.6	5.9
20°-30°	3197.1	10.8
30°-40°	5022.0	16.9
40°-50°	7326.1	24.7
50°-60°	8826.6	29.8
60°-70°	2584.3	8.7
70°-80°	327.8	1.1
80°-90°	46.0	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°	29644.0	100.0
0°-180°	29644.0	100.0

Coefficient of Utilization



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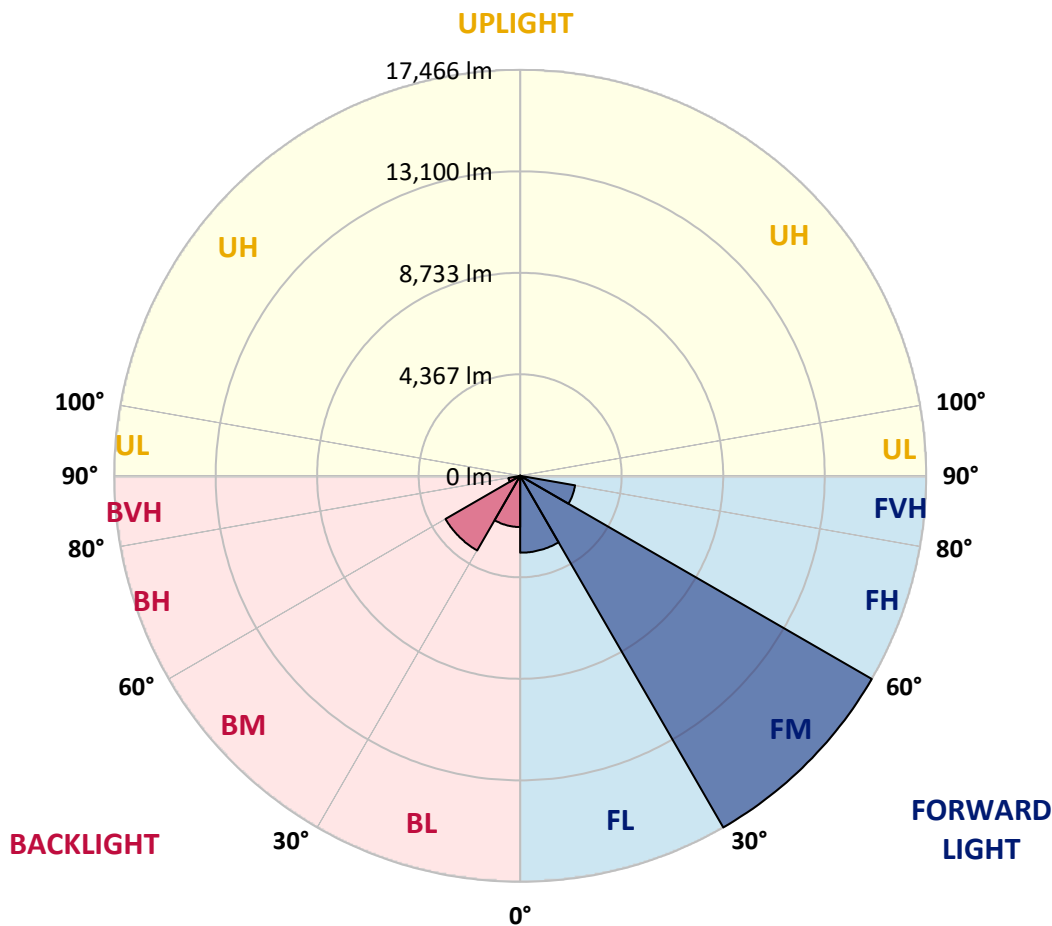
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3307.7	11.2			
FM	(30°-60°)	17466.3	58.9			
FH	(60°-80°)	2399.9	8.1			G2/5000
FVH	(80°-90°)	23.1	0.1			G1/100
BL	(0°-30°)	2203.6	7.4	B3/2500		
BM	(30°-60°)	3708.3	12.5	B3/5000		
BH	(60°-80°)	512.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	22.9	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°	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0
2.5°	5764.6	5737.6	5737.6	5694.4	5743.0	5721.4	5737.6	5683.6	5737.6	5656.6	5721.4
5°	5791.6	5797.0	5775.4	5802.4	5802.4	5834.7	5780.8	5829.3	5856.3	5797.0	5770.0
7.5°	5931.9	5942.7	5937.3	5915.7	5958.9	5953.5	5948.1	5910.3	5921.1	5899.5	5867.1
10°	6207.2	6201.8	6228.8	6174.8	6142.4	6180.2	6191.0	6131.6	6088.4	6072.2	5969.7
12.5°	6606.6	6541.8	6504.0	6450.1	6466.2	6412.3	6509.4	6406.9	6385.3	6288.1	6185.6
15°	6930.4	6919.6	6925.0	6838.7	6741.5	6763.1	6763.1	6709.1	6676.8	6558.0	6412.3
17.5°	7594.3	7367.6	7416.2	7308.3	7227.3	7221.9	7173.3	7184.1	7097.8	6849.5	6628.2
20°	8112.5	8015.3	7939.8	7756.3	7632.1	7669.9	7648.3	7594.3	7567.3	7243.5	6930.4
22.5°	8576.7	8609.1	8484.9	8436.4	8263.6	8279.8	8323.0	8274.4	8069.3	7734.7	7270.5
25°	9229.8	9192.0	9024.7	8965.3	8803.4	8862.8	9030.1	8992.3	8862.8	8258.2	7535.0
27.5°	10001.6	9872.1	9904.5	9634.6	9478.1	9645.4	9845.1	10034.0	9667.0	8873.6	7848.0
30°	10546.8	10411.8	10401.1	10390.3	10352.5	10546.8	10778.9	10951.6	10654.7	9488.9	8366.2
32.5°	10816.7	10849.1	10940.8	10908.4	11237.7	11637.1	11880.0	12128.3	11755.8	10492.8	9051.7
35°	11534.5	11329.4	11534.5	11556.1	11896.2	12743.6	13051.2	13645.0	13553.2	11912.4	9888.3
37.5°	11955.5	11939.4	11966.3	12171.4	12500.7	13547.8	13985.0	14443.8	14271.1	12765.2	10930.0
40°	12651.8	12695.0	12689.6	12846.1	13207.8	14152.3	14330.5	14702.9	14719.1	13947.2	12462.9
42.5°	13769.1	13596.4	13483.0	13645.0	14152.3	14675.9	15032.1	14956.6	15490.9	15383.0	14433.0
45°	14773.1	14875.6	14708.3	14978.2	15161.7	15442.4	15431.6	15593.5	16273.6	16786.3	15917.3
47.5°	15712.2	15777.0	15858.0	16041.5	16440.9	16484.1	16392.3	16322.2	17261.3	17790.3	17067.0
50°	16273.6	16332.9	16710.8	17040.0	17784.9	17882.0	17936.0	17757.9	18394.8	18454.2	18151.9
52.5°	16122.4	16187.2	16716.2	17801.1	18988.5	19879.1	19717.2	19414.9	19377.2	19609.3	19155.9
55°	14783.9	14724.5	15453.1	17142.6	19366.4	21503.8	21525.4	21206.9	20597.0	20440.5	19004.7
56°	13645.0	13412.9	14341.3	16381.5	18880.6	21363.5	21606.3	21266.3	20694.2	19992.5	18071.0
57.5°	11178.3	11399.6	12322.6	14012.0	17202.0	20354.1	20494.4	20413.5	19981.7	18805.0	15901.1
60°	6164.0	6552.6	7367.6	9434.9	12247.0	15620.5	15733.8	16392.3	16473.3	14400.6	10940.8
62.5°	2617.8	2574.6	3422.0	4944.1	6973.6	9429.5	9640.0	10314.7	10438.8	8301.4	5489.3
65°	1063.3	1122.7	1549.1	2488.3	3686.5	4296.4	4593.3	4814.6	5224.8	3427.4	2024.1
67.5°	701.7	696.3	912.2	1419.6	1986.3	1916.1	1916.1	2024.1	1872.9	1398.0	874.4
70°	502.0	518.2	653.1	982.4	1236.0	917.6	879.8	842.0	955.4	923.0	707.1
72.5°	329.2	350.8	437.2	588.3	642.3	502.0	502.0	604.5	788.0	744.9	577.5
75°	215.9	221.3	269.9	340.0	318.5	259.1	286.1	404.8	572.1	550.5	410.2
77.5°	145.7	151.1	183.5	221.3	178.1	145.7	156.5	205.1	280.7	280.7	215.9
80°	54.0	59.4	75.6	70.2	81.0	102.6	113.3	140.3	167.3	167.3	145.7
82.5°	0.0	5.4	16.2	37.8	59.4	81.0	91.8	108.0	124.1	140.3	134.9
85°	0.0	5.4	16.2	27.0	43.2	48.6	54.0	37.8	32.4	32.4	27.0
87.5°	0.0	0.0	5.4	5.4	5.4	5.4	5.4	5.4	10.8	5.4	5.4
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°	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0	5662.0
2.5°	5662.0	5656.6	5656.6	5640.4	5672.8	5656.6	5667.4	5662.0	5591.8	5645.8	5608.0
5°	5721.4	5759.2	5699.8	5689.0	5645.8	5662.0	5662.0	5608.0	5656.6	5651.2	5640.4
7.5°	5872.5	5807.8	5743.0	5678.2	5667.4	5651.2	5591.8	5570.3	5608.0	5564.9	5629.6
10°	5937.3	5948.1	5850.9	5764.6	5683.6	5570.3	5489.3	5440.7	5381.3	5446.1	5483.9
12.5°	6234.2	6126.2	5958.9	5823.9	5548.7	5435.3	5354.4	5332.8	5435.3	5456.9	5419.1
15°	6336.7	6320.5	6104.6	5802.4	5516.3	5381.3	5397.5	5354.4	5365.2	5311.2	5322.0
17.5°	6547.2	6363.7	6110.0	5732.2	5510.9	5478.5	5381.3	5208.6	5111.5	5068.3	5106.1
20°	6779.3	6601.2	6234.2	5759.2	5559.5	5473.1	5154.6	4944.1	4744.4	4636.5	4641.9
22.5°	6984.4	6763.1	6180.2	5770.0	5602.6	5246.4	4863.2	4447.6	4199.3	4032.0	4037.4
25°	7232.7	6919.6	6201.8	5791.6	5489.3	4884.8	4334.2	3929.4	3632.5	3519.2	3557.0
27.5°	7373.0	7016.8	6320.5	5840.1	5192.4	4372.0	3778.3	3400.4	3227.7	3173.8	3168.4
30°	7794.0	7232.7	6466.2	5743.0	4695.9	3821.5	3270.9	3038.8	2871.5	2822.9	2833.7
32.5°	8420.2	7626.7	6655.2	5489.3	4188.5	3330.3	2941.7	2768.9	2612.4	2520.7	2509.9
35°	8943.7	8301.4	6854.9	5095.3	3600.2	2952.5	2709.6	2493.7	2256.2	2153.6	2126.6
37.5°	9942.3	9062.5	6811.7	4501.5	3038.8	2671.8	2461.3	2196.8	1991.7	1851.4	1835.2
40°	11270.1	9953.1	6601.2	3778.3	2623.2	2423.5	2196.8	1943.1	1689.4	1570.7	1559.9
42.5°	12883.9	11043.4	6218.0	3044.2	2207.6	2175.2	1970.1	1678.6	1451.9	1365.6	1371.0
45°	14195.5	11977.1	5829.3	2445.1	1899.9	1932.3	1754.2	1478.9	1322.4	1252.2	1252.2
47.5°	15361.4	12608.6	5408.3	2018.7	1613.9	1689.4	1532.9	1371.0	1236.0	1182.1	1171.3
50°	16484.1	13251.0	4987.3	1635.5	1376.4	1451.9	1435.7	1306.2	1198.3	1133.5	1138.9
52.5°	17185.8	13353.5	4453.0	1338.6	1203.7	1290.0	1344.0	1225.2	1106.5	1068.7	1057.9
55°	16327.6	12031.1	3454.4	1101.1	1020.1	1133.5	1236.0	1101.1	1009.3	944.6	939.2
56°	15172.5	10757.3	2887.7	1014.7	966.2	1090.3	1198.3	1052.5	950.0	912.2	885.2
57.5°	12846.1	8803.4	2132.0	901.4	896.0	1014.7	1138.9	1003.9	885.2	852.8	852.8
60°	8009.9	4954.9	1290.0	755.7	777.2	901.4	1025.5	896.0	788.0	788.0	804.2
62.5°	3648.7	2061.9	782.6	642.3	669.3	777.2	912.2	809.6	750.3	809.6	820.4
65°	1241.4	890.6	566.7	512.8	529.0	642.3	782.6	820.4	815.0	852.8	874.4
67.5°	696.3	572.1	475.0	426.4	415.6	475.0	642.3	820.4	788.0	771.8	782.6
70°	588.3	485.8	421.0	377.8	361.6	383.2	496.6	620.7	555.9	539.8	529.0
72.5°	475.0	404.8	367.0	340.0	291.5	248.3	226.7	237.5	264.5	280.7	307.7
75°	334.6	307.7	307.7	275.3	210.5	156.5	124.1	102.6	70.2	48.6	54.0
77.5°	188.9	188.9	194.3	167.3	134.9	102.6	75.6	54.0	27.0	10.8	5.4
80°	129.5	140.3	151.1	134.9	113.3	91.8	64.8	37.8	16.2	0.0	0.0
82.5°	129.5	145.7	156.5	134.9	113.3	86.4	64.8	37.8	16.2	5.4	0.0
85°	27.0	32.4	37.8	43.2	64.8	64.8	48.6	32.4	16.2	5.4	0.0
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	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)