

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: P299995

Luminaire Tested: **GLNA-AF-08-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-SL3-7027-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25985.5 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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: 25 FT

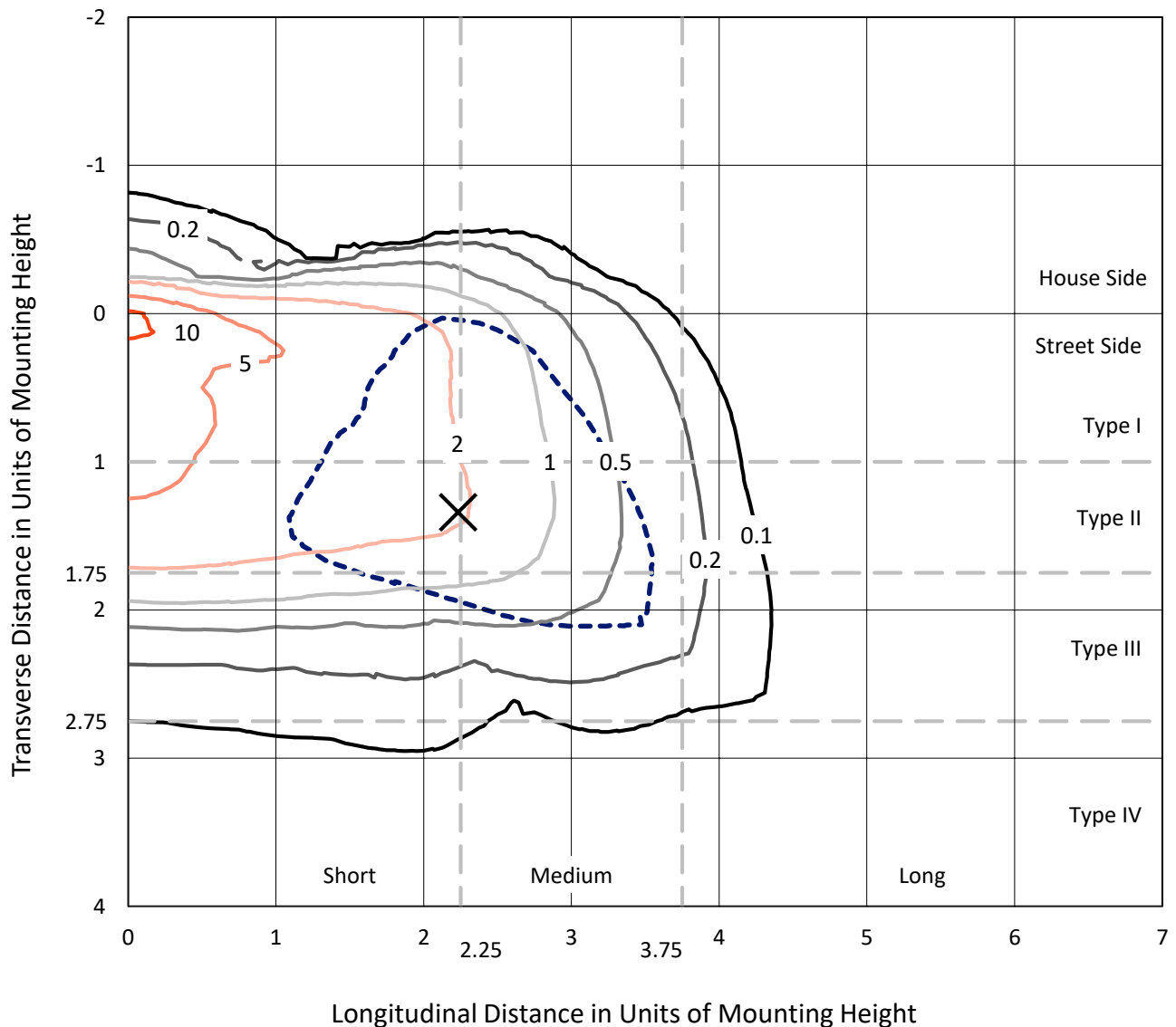


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

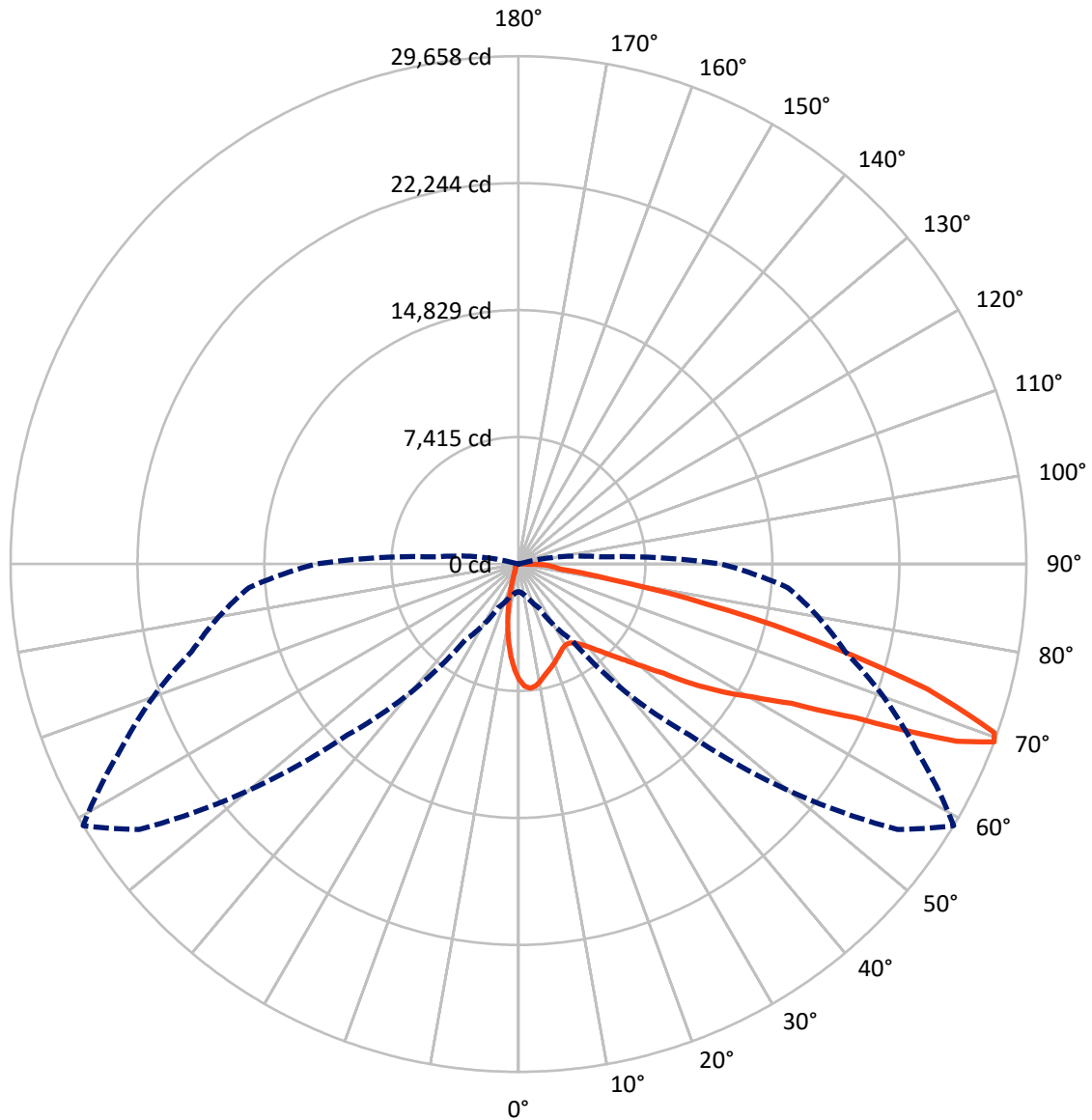


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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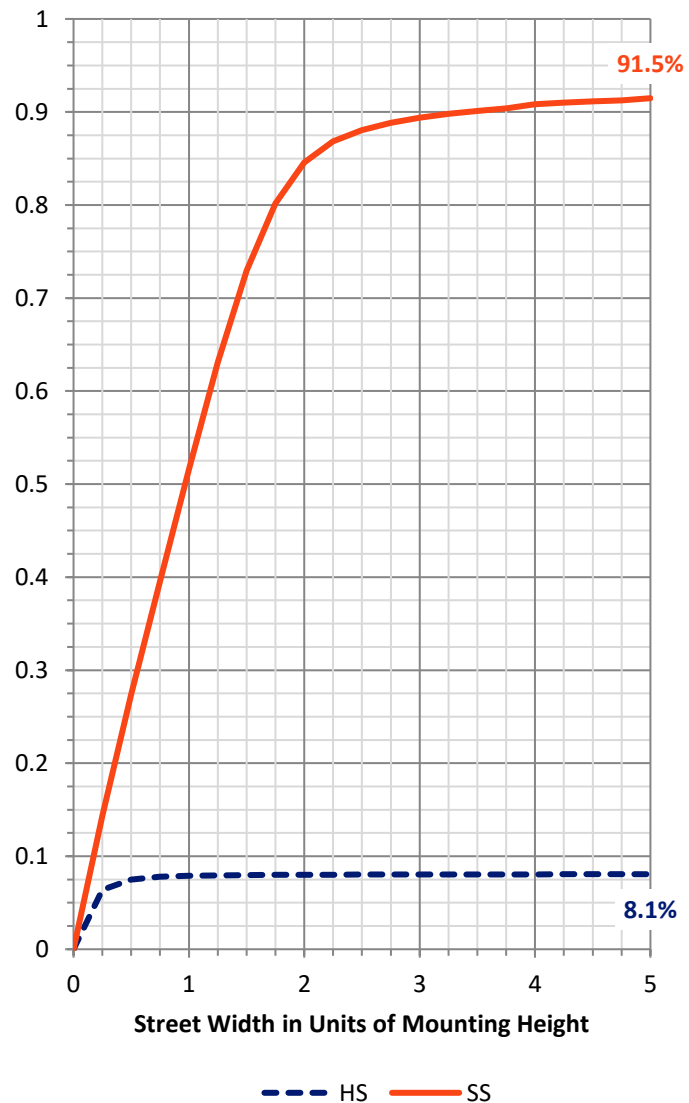
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2116.1	0.0	2116.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	23869.3	0.0	23869.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	25985.5	0.0	25985.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.0	2.1
10°-20°	1134.4	4.4
20°-30°	1526.5	5.9
30°-40°	2216.4	8.5
40°-50°	3690.4	14.2
50°-60°	5757.0	22.2
60°-70°	7123.8	27.4
70°-80°	3610.3	13.9
80°-90°	377.8	1.5
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°	25985.5	100.0
0°-180°	25985.5	100.0



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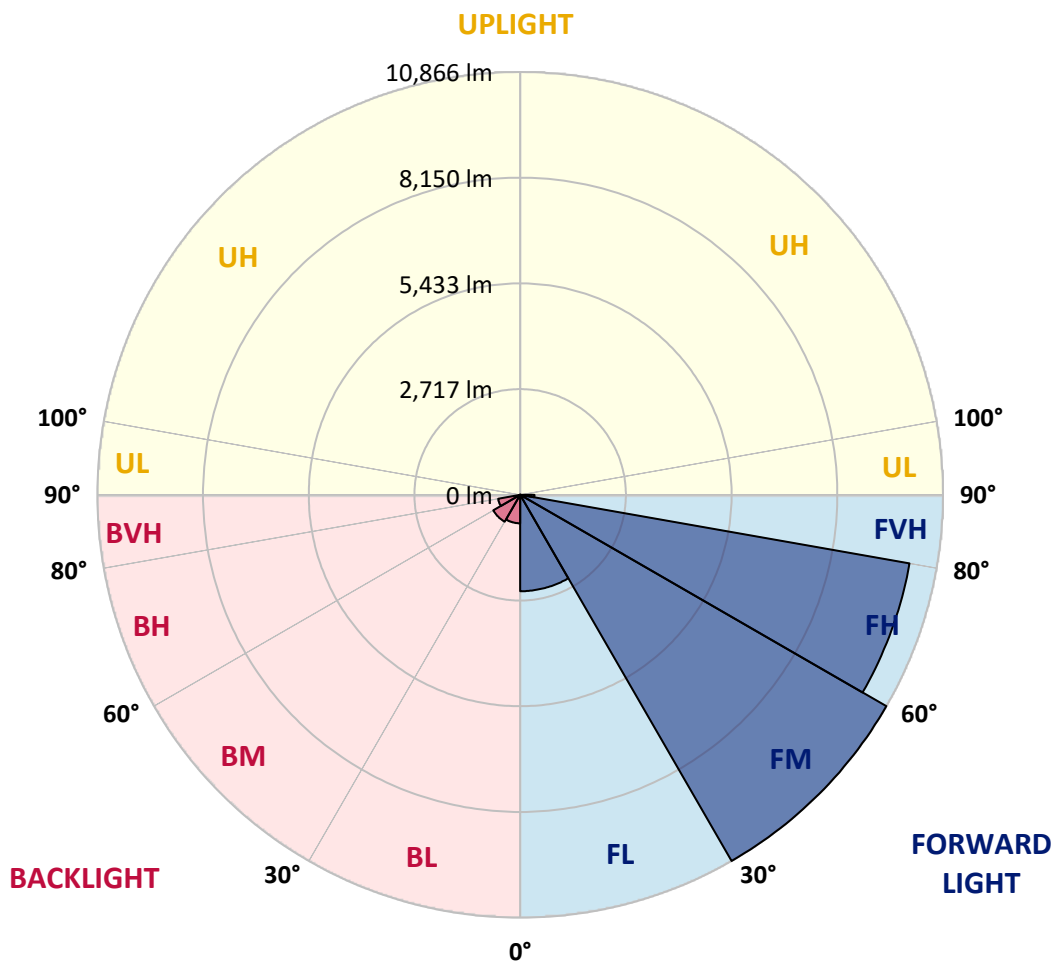
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2477.4	9.5			
FM	(30°-60°)	10866.4	41.8			
FH	(60°-80°)	10159.4	39.1			G4/12000
FVH	(80°-90°)	366.1	1.4			G3/500
BL	(0°-30°)	732.5	2.8	B2/1000		
BM	(30°-60°)	797.4	3.1	B1/1000		
BH	(60°-80°)	574.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5
2.5°	7413.0	7410.4	7377.9	7363.2	7336.5	7280.9	7194.2	7148.8	7075.4	6947.3	6775.5
5°	7345.4	7381.0	7399.7	7401.5	7420.6	7399.7	7321.8	7284.0	7182.6	6976.6	6668.3
7.5°	6887.2	6900.1	6954.8	7001.5	7092.7	7179.5	7207.5	7191.0	7131.0	6910.8	6500.6
10°	6396.5	6409.4	6474.3	6535.7	6659.4	6792.9	6933.9	6963.7	6988.6	6816.5	6339.1
12.5°	5973.0	5986.3	6052.6	6133.1	6277.3	6441.9	6660.7	6709.2	6819.6	6727.0	6209.6
15°	5608.6	5614.4	5679.3	5779.0	5951.2	6162.5	6411.2	6489.0	6658.1	6663.9	6096.6
17.5°	5298.5	5313.2	5353.2	5448.4	5636.6	5898.2	6187.8	6299.5	6497.5	6610.9	5986.3
20°	5109.0	5123.7	5122.4	5175.3	5344.3	5623.3	5964.5	6098.0	6339.1	6556.6	5888.0
22.5°	5072.5	5072.5	5034.3	5026.7	5126.8	5360.4	5732.3	5895.1	6196.3	6533.1	5819.0
25°	5203.3	5197.1	5101.9	5024.0	5028.5	5167.7	5507.2	5701.1	6076.2	6549.1	5782.1
27.5°	5479.6	5472.0	5351.5	5203.3	5084.1	5082.8	5336.8	5545.4	5980.5	6625.6	5796.8
30°	5861.3	5858.6	5727.8	5541.0	5325.2	5126.8	5278.1	5467.6	5918.7	6763.5	5830.6
32.5°	6278.6	6274.1	6175.8	5979.2	5705.6	5325.2	5339.9	5498.7	5936.5	6947.3	5912.9
35°	6721.3	6713.7	6671.0	6499.3	6198.1	5690.9	5542.8	5666.0	6048.1	7222.2	6074.4
37.5°	7199.9	7207.5	7238.2	7073.6	6757.7	6203.9	5882.2	5965.8	6272.8	7595.4	6337.3
40°	7906.9	7905.5	7915.8	7699.5	7395.7	6831.1	6356.5	6383.1	6649.2	8090.6	6737.3
42.5°	9189.4	9100.0	8828.2	8387.3	8081.7	7548.3	6954.8	6926.8	7109.2	8703.2	7296.9
45°	10913.4	10722.1	10016.9	9172.1	8781.0	8356.6	7690.6	7601.2	7717.3	9439.5	7987.8
47.5°	12395.7	12197.3	11199.9	9988.9	9523.1	9123.6	8553.3	8391.8	8430.0	10263.8	8863.4
50°	12899.8	12802.8	11931.7	10700.3	10241.6	10089.0	9554.3	9357.2	9302.9	11217.2	9878.6
52.5°	12724.9	12717.8	12137.2	11161.6	10900.0	11088.2	10813.3	10585.5	10385.7	12222.6	10911.6
55°	12444.2	12481.1	12220.9	11565.6	11556.7	12000.6	12535.4	12345.9	11767.1	13314.4	11802.2
57.5°	11670.1	11827.1	12174.2	12329.9	12691.1	13145.3	13969.7	14081.4	13396.7	14150.3	12541.2
60°	9468.8	9814.1	10948.5	12439.7	14153.4	15284.8	15700.7	15795.9	14733.5	14845.2	13539.0
62.5°	6721.3	7073.6	8512.3	11035.3	14175.2	18095.5	18279.2	17904.7	16206.1	15875.6	15259.8
65°	3567.5	3839.8	5015.1	7965.6	12290.3	18748.1	22789.0	21672.3	18803.8	17901.5	17482.9
67.5°	1824.9	1907.2	2374.8	3898.5	8449.2	16652.8	26831.2	27617.3	23281.0	19912.0	17375.7
69°	1614.9	1663.4	1973.5	2818.3	5410.2	14104.9	27028.3	29658.4	25625.1	19744.2	15790.1
70°	1563.3	1606.0	1888.1	2550.9	4229.0	11828.5	26274.2	29479.1	26224.4	19106.7	14605.9
72.5°	1327.1	1363.6	1681.2	2254.2	3437.1	5871.5	21343.1	24980.0	23532.4	15916.5	10572.1
75°	887.5	1008.1	1613.6	2113.2	3197.4	3335.7	14071.1	18051.5	16768.9	10735.4	5507.2
77.5°	213.1	229.1	455.6	1681.2	2924.2	2935.8	7236.9	11221.7	9153.0	3826.4	1301.7
80°	114.8	110.3	127.7	333.7	2722.7	2755.1	3257.9	5447.1	3268.1	634.8	428.9
82.5°	81.0	76.5	82.3	139.7	856.8	2509.6	2357.0	2465.5	1354.7	243.8	192.6
85°	29.4	28.0	45.4	126.3	268.7	1442.7	2421.5	2033.5	1097.5	111.7	141.0
87.5°	10.2	8.9	17.8	69.0	82.3	614.4	1494.4	1537.1	432.0	67.6	66.3
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°	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5	6763.5
2.5°	6703.5	6612.3	6445.0	6272.8	6114.0	5923.1	5827.5	5733.6	5694.0	5679.3	5610.4
5°	6509.5	6355.1	5999.7	5642.4	5313.2	4963.5	4733.1	4548.0	4439.0	4386.1	4302.4
7.5°	6261.2	6008.6	5468.9	4918.2	4405.2	3899.8	3525.2	3236.9	3038.5	2943.3	2856.6
10°	6020.1	5683.8	4916.8	4165.9	3469.2	2799.2	2281.8	1907.2	1667.9	1557.5	1487.2
12.5°	5804.4	5367.9	4383.4	3432.7	2558.1	1773.7	1247.4	949.4	800.8	749.2	724.3
15°	5611.7	5077.0	3879.4	2736.0	1732.4	1013.9	682.0	580.6	557.0	557.0	553.9
17.5°	5429.3	4791.8	3392.7	2082.0	1087.3	620.2	518.7	505.4	505.4	511.2	511.2
20°	5254.5	4520.0	2922.4	1494.4	684.7	492.0	468.9	465.8	468.9	476.0	476.0
22.5°	5104.6	4273.1	2483.3	1025.4	508.5	443.5	432.0	427.5	428.9	433.3	436.4
25°	4992.9	4064.4	2069.1	694.9	437.8	404.0	391.0	383.5	377.7	377.7	380.4
27.5°	4922.6	3888.3	1667.9	505.4	393.7	367.5	346.6	335.0	321.6	314.5	317.2
30°	4871.0	3720.5	1291.5	412.8	352.8	326.1	299.8	280.7	261.6	252.7	255.8
32.5°	4851.9	3585.3	965.4	364.4	315.9	286.5	254.0	229.1	208.6	201.1	202.9
35°	4903.5	3478.1	706.9	329.2	286.5	249.6	213.1	185.1	169.1	164.6	165.9
37.5°	5038.7	3420.7	529.0	299.8	260.3	218.9	178.0	151.3	141.0	141.0	142.4
40°	5294.1	3419.4	424.9	279.4	236.7	189.5	146.8	127.7	121.9	125.0	126.3
42.5°	5667.3	3497.2	370.1	260.3	216.2	161.5	121.9	108.6	107.2	110.3	111.7
45°	6177.2	3639.6	340.8	243.8	194.0	135.2	102.8	93.9	93.9	98.3	100.1
47.5°	6801.8	3848.2	315.9	227.8	171.7	113.0	88.1	82.3	83.6	88.1	89.4
50°	7554.1	4111.6	291.0	210.0	155.7	93.9	76.5	72.1	73.4	79.2	81.0
52.5°	8410.9	4465.7	270.5	194.0	135.2	77.9	64.5	61.8	64.5	70.7	72.1
55°	9145.4	4782.9	245.6	180.6	108.6	64.5	52.9	52.9	56.1	63.2	64.5
57.5°	9852.3	5114.8	223.3	155.7	85.4	51.6	44.0	45.4	49.8	57.4	58.7
60°	10889.8	5677.6	197.1	130.8	64.5	40.9	36.9	38.3	44.0	51.6	52.9
62.5°	12651.5	6534.4	170.4	108.6	49.8	32.5	29.4	32.5	39.6	48.5	49.8
65°	14241.5	6882.7	139.7	91.2	38.3	24.9	24.9	29.4	38.3	47.2	48.5
67.5°	13355.3	5793.7	108.6	72.1	29.4	19.1	20.5	28.0	36.9	47.2	48.5
69°	11811.1	4737.5	92.5	57.4	24.9	17.8	19.1	28.0	36.9	45.4	47.2
70°	10607.7	3999.9	82.3	48.5	22.2	17.8	19.1	26.2	36.9	45.4	47.2
72.5°	7104.7	2159.9	66.3	35.1	20.5	16.0	16.0	26.2	35.1	44.0	45.4
75°	3053.2	596.6	52.9	24.9	17.8	14.7	14.7	24.9	33.8	42.7	45.4
77.5°	558.3	151.3	42.7	22.2	17.8	14.7	13.3	23.6	32.5	40.9	42.7
80°	222.0	74.7	33.8	19.1	16.0	13.3	11.6	22.2	30.7	39.6	40.9
82.5°	133.9	42.7	28.0	17.8	16.0	11.6	10.2	19.1	29.4	38.3	39.6
85°	108.6	29.4	22.2	17.8	14.7	11.6	8.9	17.8	26.2	36.9	38.3
87.5°	52.9	20.5	20.5	16.0	14.7	11.6	8.9	16.0	24.9	35.1	36.9
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)