

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-06-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-06-LED-E1-SL3-7027-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 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: 19392.8 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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

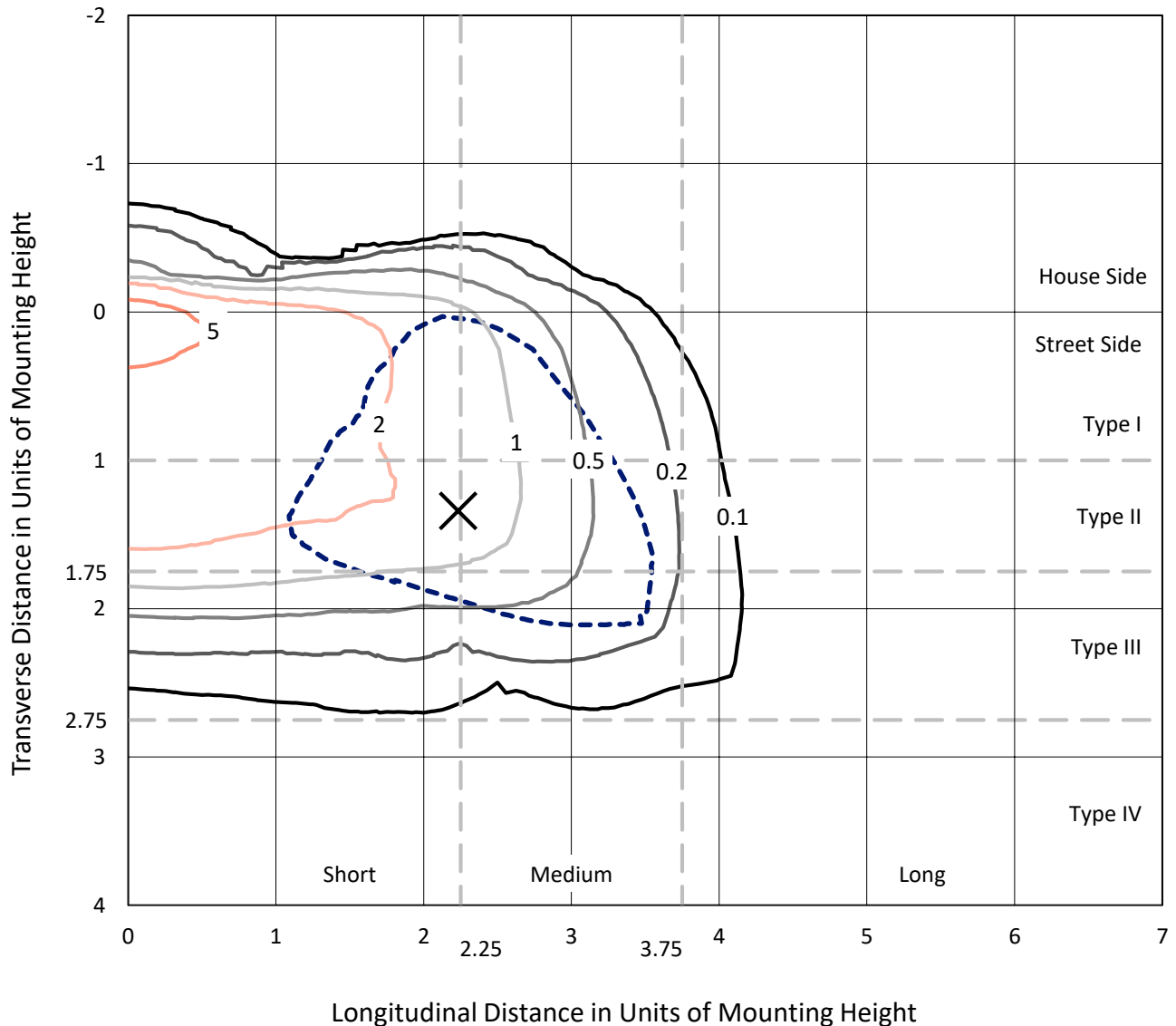


REPORT NUMBER: P299995

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

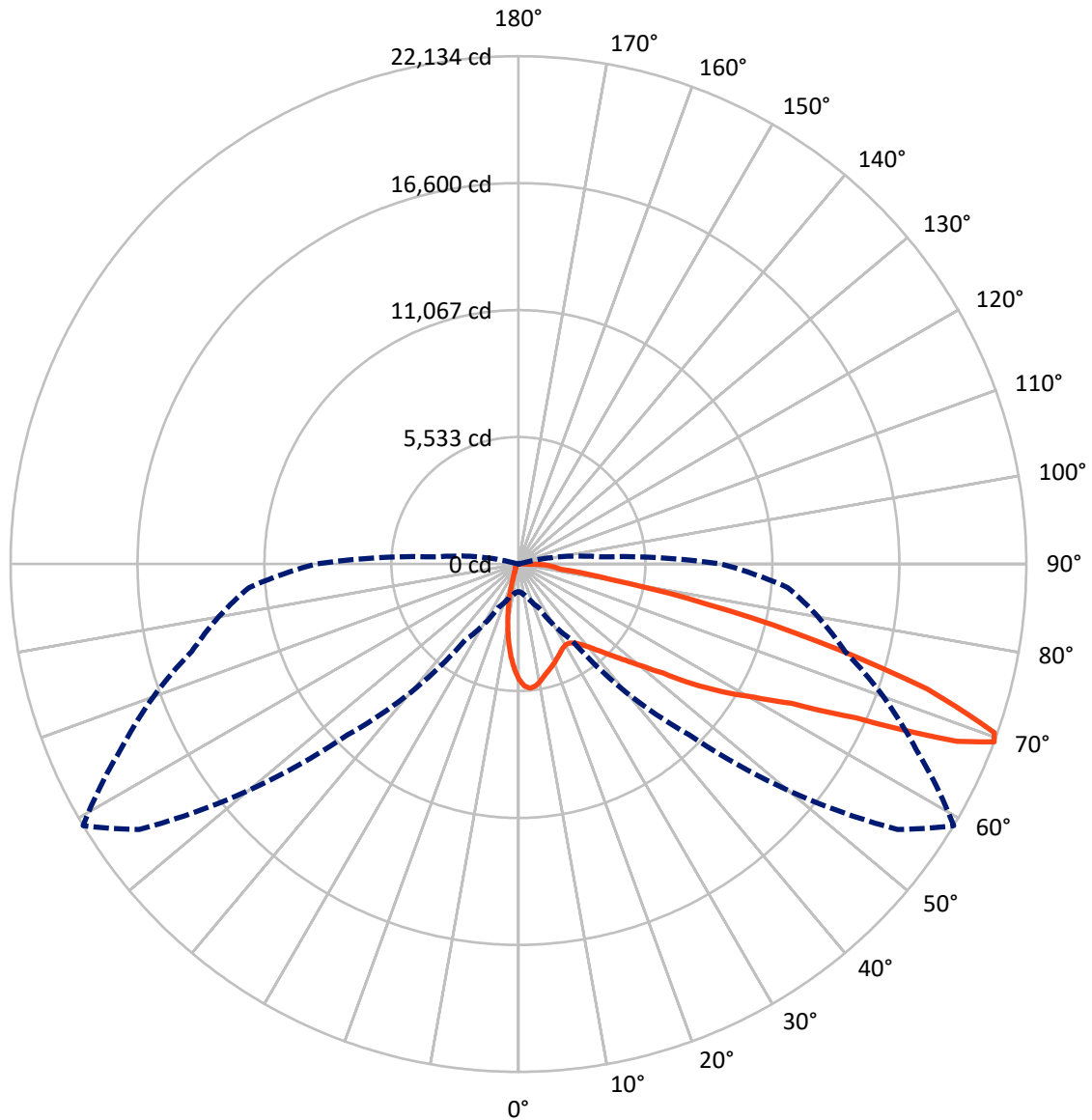


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P299995

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Luminous Intensity Polar Plot



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

REPORT NUMBER: P299995

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7027-800-HSS

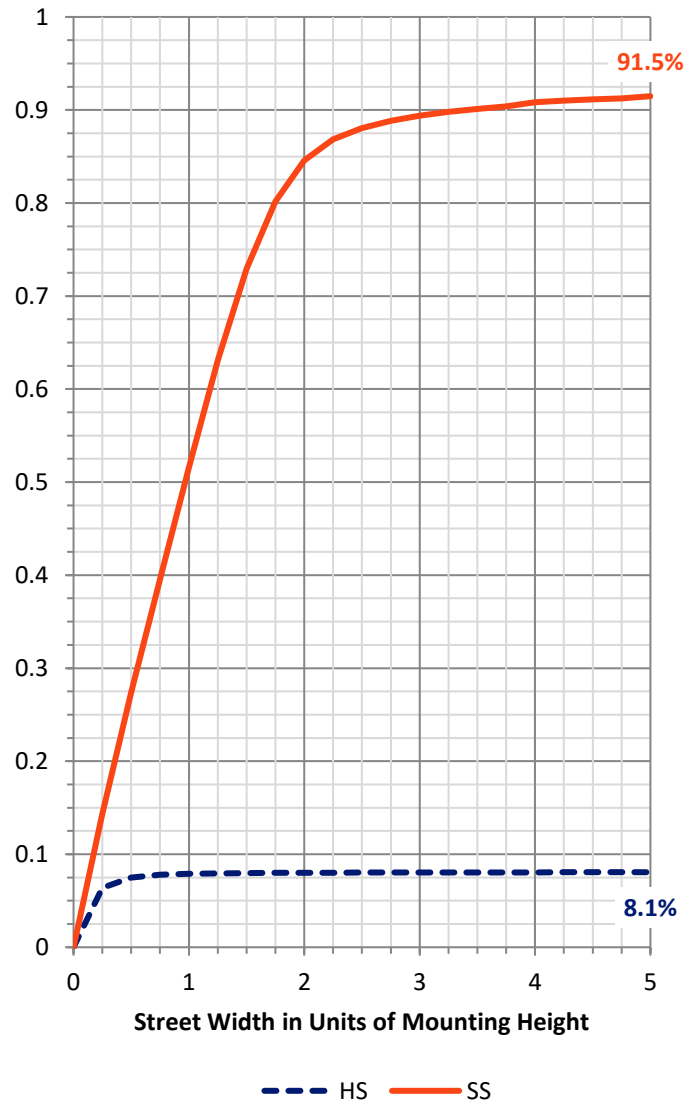
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.3	0.0	1579.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	17813.5	0.0	17813.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	19392.8	0.0	19392.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	2.1
10°-20°	846.6	4.4
20°-30°	1139.2	5.9
30°-40°	1654.1	8.5
40°-50°	2754.1	14.2
50°-60°	4296.4	22.2
60°-70°	5316.5	27.4
70°-80°	2694.3	13.9
80°-90°	281.9	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°	19392.8	100.0
0°-180°	19392.8	100.0



REPORT NUMBER: P299995

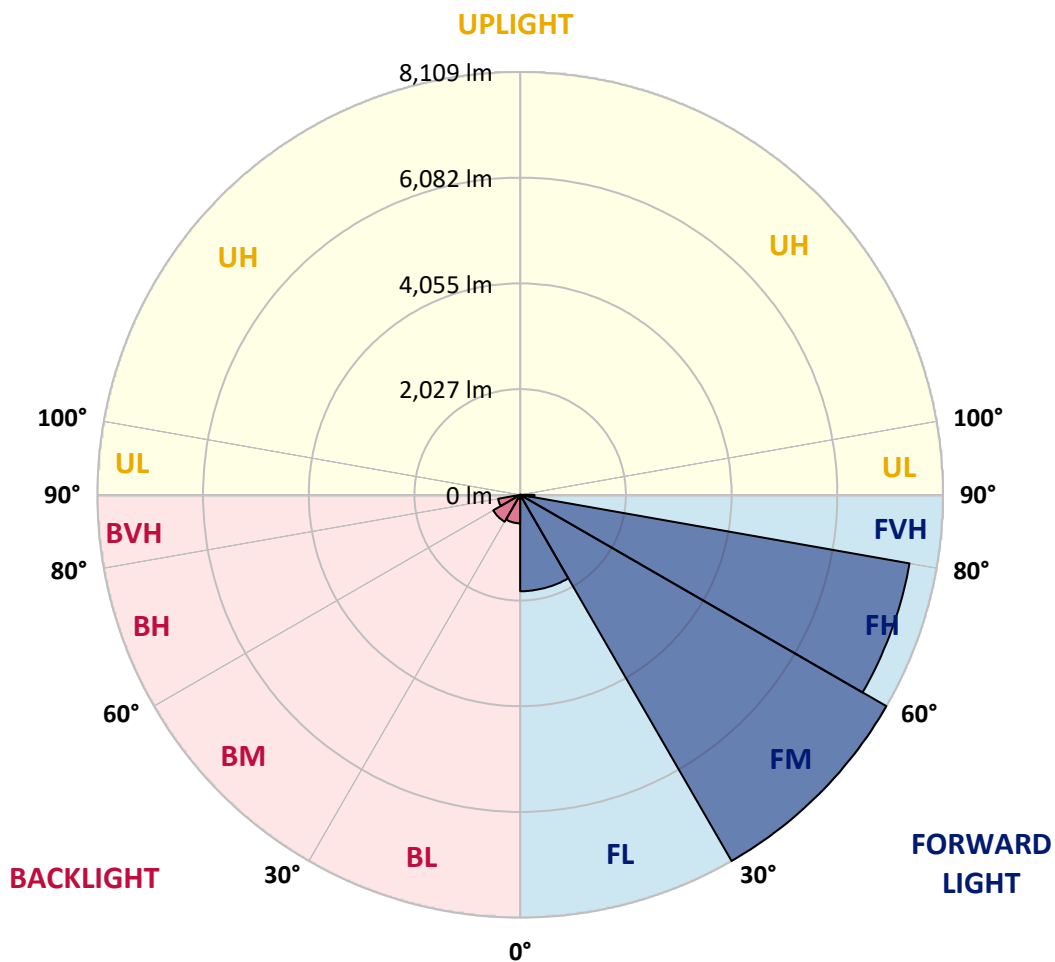
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1848.9	9.5			
FM	(30°-60°)	8109.5	41.8			
FH	(60°-80°)	7581.9	39.1			G4/12000
FVH	(80°-90°)	273.2	1.4			G3/500
BL	(0°-30°)	546.6	2.8	B2/1000		
BM	(30°-60°)	595.1	3.1	B1/1000		
BH	(60°-80°)	428.9	2.2	B1/500		G1/500
BVH	(80°-90°)	8.7	0.0			G0/10
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°	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6
2.5°	5532.3	5530.3	5506.1	5495.1	5475.2	5433.7	5369.0	5335.1	5280.3	5184.7	5056.5
5°	5481.8	5508.4	5522.3	5523.7	5538.0	5522.3	5464.2	5436.0	5360.3	5206.6	4976.5
7.5°	5139.9	5149.5	5190.3	5225.2	5293.3	5358.0	5378.9	5366.6	5321.8	5157.5	4851.4
10°	4773.7	4783.3	4831.8	4877.6	4969.9	5069.5	5174.7	5197.0	5215.6	5087.1	4730.8
12.5°	4457.6	4467.5	4517.0	4577.1	4684.7	4807.5	4970.9	5007.1	5089.4	5020.3	4634.2
15°	4185.7	4190.0	4238.5	4312.8	4441.3	4599.0	4784.6	4842.7	4968.9	4973.2	4549.9
17.5°	3954.3	3965.2	3995.1	4066.1	4206.6	4401.8	4617.9	4701.3	4849.0	4933.7	4467.5
20°	3812.8	3823.8	3822.8	3862.3	3988.5	4196.6	4451.3	4550.9	4730.8	4893.2	4394.2
22.5°	3785.6	3785.6	3757.0	3751.4	3826.1	4000.4	4278.0	4399.5	4624.3	4875.6	4342.7
25°	3883.2	3878.6	3807.5	3749.4	3752.7	3856.6	4110.0	4254.7	4534.6	4887.5	4315.2
27.5°	4089.4	4083.7	3993.8	3883.2	3794.2	3793.2	3982.8	4138.5	4463.2	4944.6	4326.1
30°	4374.3	4372.3	4274.6	4135.2	3974.2	3826.1	3939.0	4080.4	4417.1	5047.6	4351.3
32.5°	4685.7	4682.4	4609.0	4462.2	4258.0	3974.2	3985.1	4103.7	4430.4	5184.7	4412.8
35°	5016.0	5010.4	4978.5	4850.4	4625.6	4247.1	4136.5	4228.5	4513.7	5389.9	4533.3
37.5°	5373.3	5378.9	5401.8	5279.0	5043.3	4629.9	4389.9	4452.3	4681.4	5668.4	4729.5
40°	5900.8	5899.8	5907.5	5746.1	5519.4	5098.0	4743.8	4763.7	4962.2	6038.0	5028.0
42.5°	6858.0	6791.3	6588.4	6259.4	6031.3	5633.2	5190.3	5169.4	5305.5	6495.1	5445.7
45°	8144.6	8001.8	7475.6	6845.1	6553.2	6236.5	5739.5	5672.7	5759.4	7044.6	5961.3
47.5°	9250.8	9102.8	8358.4	7454.7	7107.0	6808.9	6383.3	6262.7	6291.3	7659.8	6614.7
50°	9627.0	9554.6	8904.5	7985.5	7643.2	7529.4	7130.3	6983.2	6942.7	8371.3	7372.3
52.5°	9496.5	9491.2	9057.9	8329.8	8134.6	8275.1	8069.9	7899.9	7750.8	9121.7	8143.2
55°	9287.0	9314.6	9120.4	8631.3	8624.7	8956.0	9355.1	9213.7	8781.7	9936.4	8807.9
57.5°	8709.3	8826.5	9085.5	9201.7	9471.3	9810.3	10425.5	10508.8	9997.9	10560.3	9359.4
60°	7066.5	7324.2	8170.8	9283.7	10562.6	11406.9	11717.3	11788.4	10995.6	11078.9	10104.1
62.5°	5016.0	5279.0	6352.7	8235.5	10578.9	13504.6	13641.7	13362.1	12094.5	11847.8	11388.3
65°	2662.4	2865.6	3742.8	5944.7	9172.1	13991.6	17007.3	16173.9	14033.1	13359.8	13047.4
67.5°	1361.9	1423.3	1772.3	2909.4	6305.6	12427.9	20023.9	20610.6	17374.5	14860.2	12967.4
69°	1205.2	1241.4	1472.8	2103.3	4037.6	10526.4	20171.0	22133.9	19123.9	14735.0	11784.1
70°	1166.7	1198.6	1409.1	1903.8	3156.1	8827.5	19608.3	22000.1	19571.1	14259.2	10900.3
72.5°	990.4	1017.6	1254.7	1682.3	2565.1	4381.9	15928.3	18642.4	17562.1	11878.4	7889.9
75°	662.4	752.3	1204.2	1577.1	2386.2	2489.4	10501.2	13471.7	12514.5	8011.8	4110.0
77.5°	159.0	171.0	340.0	1254.7	2182.3	2190.9	5400.8	8374.7	6830.8	2855.6	971.5
80°	85.7	82.3	95.3	249.0	2031.9	2056.1	2431.3	4065.1	2439.0	473.8	320.1
82.5°	60.4	57.1	61.4	104.3	639.5	1872.9	1759.0	1840.0	1011.0	181.9	143.8
85°	21.9	20.9	33.9	94.3	200.5	1076.7	1807.1	1517.6	819.1	83.3	105.2
87.5°	7.6	6.6	13.3	51.5	61.4	458.5	1115.2	1147.1	322.4	50.5	49.5
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°	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6	5047.6
2.5°	5002.7	4934.7	4809.9	4681.4	4562.8	4420.4	4349.0	4279.0	4249.4	4238.5	4187.0
5°	4858.0	4742.8	4477.5	4210.9	3965.2	3704.3	3532.3	3394.2	3312.8	3273.3	3210.9
7.5°	4672.7	4484.1	4081.4	3670.4	3287.6	2910.4	2630.9	2415.7	2267.6	2196.6	2131.8
10°	4492.8	4241.8	3669.4	3109.0	2589.0	2089.0	1702.9	1423.3	1244.7	1162.4	1109.9
12.5°	4331.8	4006.1	3271.3	2561.8	1909.1	1323.7	931.0	708.5	597.6	559.1	540.5
15°	4188.0	3788.9	2895.1	2041.9	1292.9	756.7	509.0	433.3	415.7	415.7	413.4
17.5°	4051.9	3576.1	2531.9	1553.8	811.4	462.8	387.1	377.2	377.2	381.5	381.5
20°	3921.4	3373.2	2181.0	1115.2	511.0	367.2	349.9	347.6	349.9	355.3	355.3
22.5°	3809.5	3189.0	1853.3	765.3	379.5	331.0	322.4	319.1	320.1	323.4	325.7
25°	3726.2	3033.3	1544.2	518.6	326.7	301.5	291.8	286.2	281.9	281.9	283.9
27.5°	3673.7	2901.8	1244.7	377.2	293.8	274.2	258.6	250.0	240.0	234.7	236.7
30°	3635.2	2776.6	963.8	308.1	263.3	243.4	223.8	209.5	195.2	188.6	190.9
32.5°	3620.9	2675.7	720.5	271.9	235.7	213.8	189.6	171.0	155.7	150.1	151.4
35°	3659.4	2595.7	527.6	245.7	213.8	186.3	159.0	138.1	126.2	122.8	123.8
37.5°	3760.4	2552.8	394.8	223.8	194.2	163.3	132.8	112.9	105.2	105.2	106.2
40°	3950.9	2551.8	317.1	208.5	176.6	141.4	109.6	95.3	91.0	93.3	94.3
42.5°	4229.5	2609.9	276.2	194.2	161.4	120.5	91.0	81.0	80.0	82.3	83.3
45°	4610.0	2716.2	254.3	181.9	144.8	100.9	76.7	70.1	70.1	73.4	74.7
47.5°	5076.1	2871.9	235.7	170.0	128.2	84.3	65.7	61.4	62.4	65.7	66.7
50°	5637.6	3068.5	217.1	156.7	116.2	70.1	57.1	53.8	54.8	59.1	60.4
52.5°	6277.0	3332.7	201.9	144.8	100.9	58.1	48.1	46.1	48.1	52.8	53.8
55°	6825.2	3569.5	183.3	134.8	81.0	48.1	39.5	39.5	41.8	47.1	48.1
57.5°	7352.7	3817.1	166.7	116.2	63.7	38.5	32.9	33.9	37.2	42.8	43.8
60°	8127.0	4237.1	147.1	97.6	48.1	30.5	27.6	28.6	32.9	38.5	39.5
62.5°	9441.7	4876.6	127.2	81.0	37.2	24.2	21.9	24.2	29.5	36.2	37.2
65°	10628.4	5136.5	104.3	68.1	28.6	18.6	18.6	21.9	28.6	35.2	36.2
67.5°	9967.0	4323.8	81.0	53.8	21.9	14.3	15.3	20.9	27.6	35.2	36.2
69°	8814.6	3535.6	69.1	42.8	18.6	13.3	14.3	20.9	27.6	33.9	35.2
70°	7916.5	2985.1	61.4	36.2	16.6	13.3	14.3	19.6	27.6	33.9	35.2
72.5°	5302.2	1611.9	49.5	26.2	15.3	12.0	12.0	19.6	26.2	32.9	33.9
75°	2278.6	445.2	39.5	18.6	13.3	11.0	11.0	18.6	25.2	31.9	33.9
77.5°	416.7	112.9	31.9	16.6	13.3	11.0	10.0	17.6	24.2	30.5	31.9
80°	165.7	55.8	25.2	14.3	12.0	10.0	8.6	16.6	22.9	29.5	30.5
82.5°	99.9	31.9	20.9	13.3	12.0	8.6	7.6	14.3	21.9	28.6	29.5
85°	81.0	21.9	16.6	13.3	11.0	8.6	6.6	13.3	19.6	27.6	28.6
87.5°	39.5	15.3	15.3	12.0	11.0	8.6	6.6	12.0	18.6	26.2	27.6
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)