

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: P300955

Luminaire Tested: **GLNA-AF-10-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-10-LED-E1-SL4-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

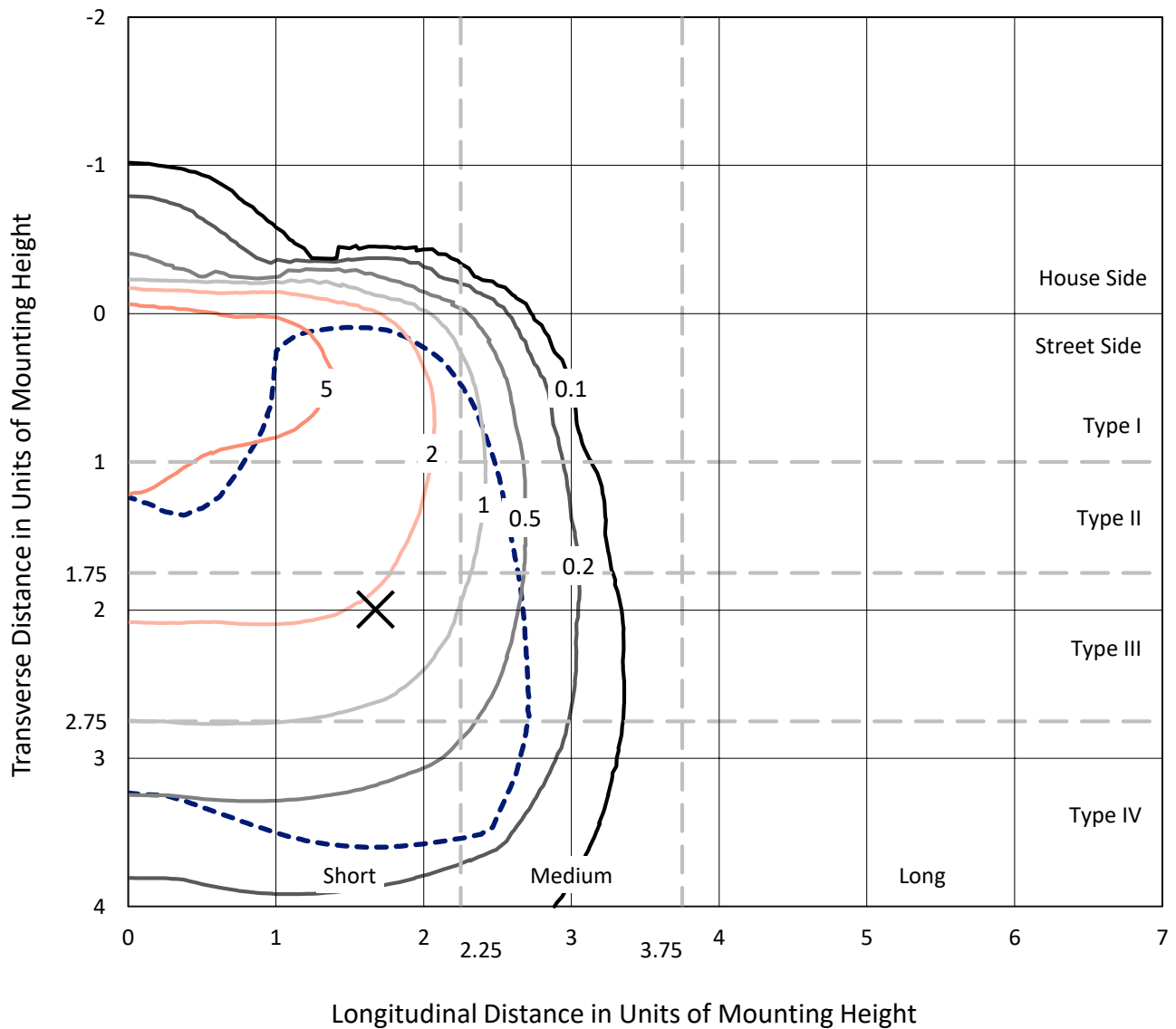
Lumens per Lamp: N/A  
Luminaire Lumens: 43595.3 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (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

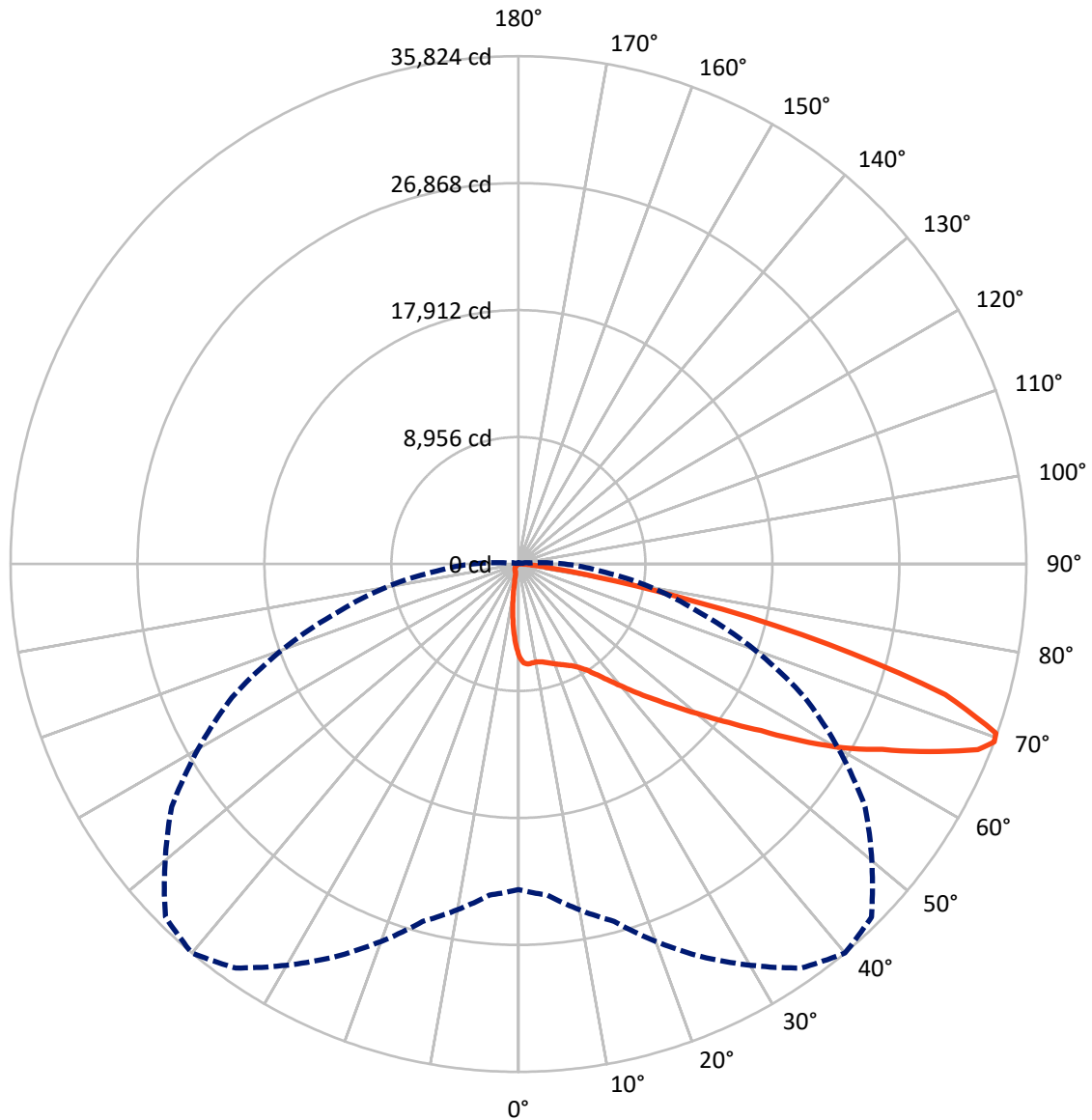
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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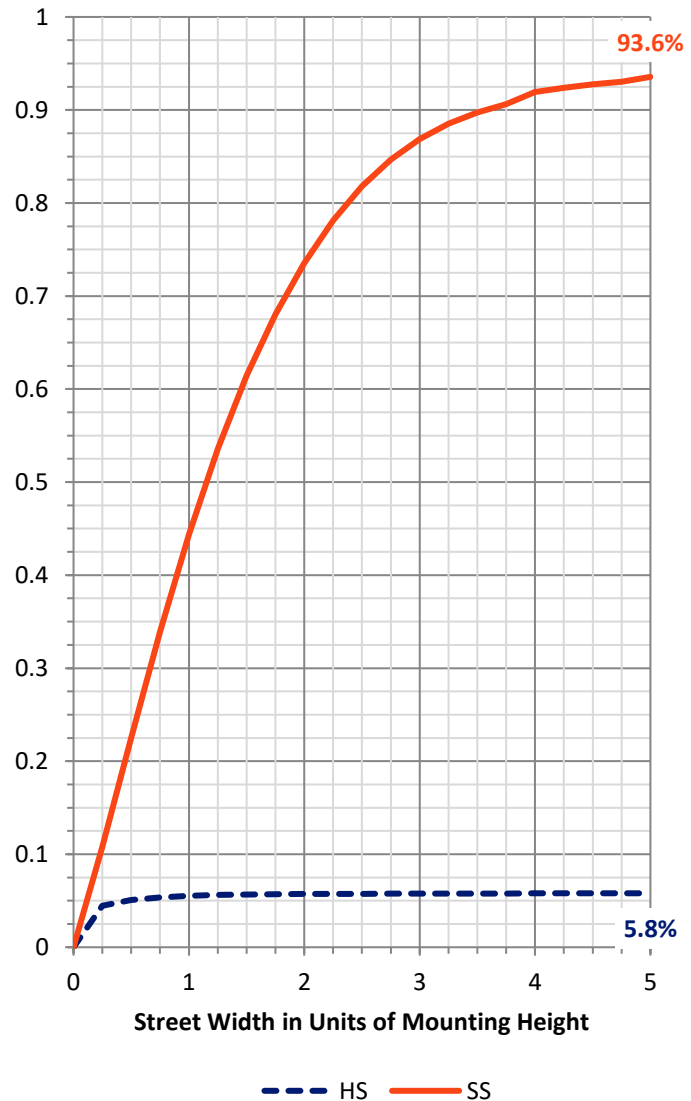
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2550.6	0.0	2550.6
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	41044.8	0.0	41044.8
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	43595.3	0.0	43595.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.1	1.2
10°-20°	1298.7	3.0
20°-30°	2187.5	5.0
30°-40°	3581.0	8.2
40°-50°	6200.3	14.2
50°-60°	9766.1	22.4
60°-70°	12754.2	29.3
70°-80°	6569.0	15.1
80°-90°	710.6	1.6
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°	43595.3	100.0
0°-180°	43595.3	100.0



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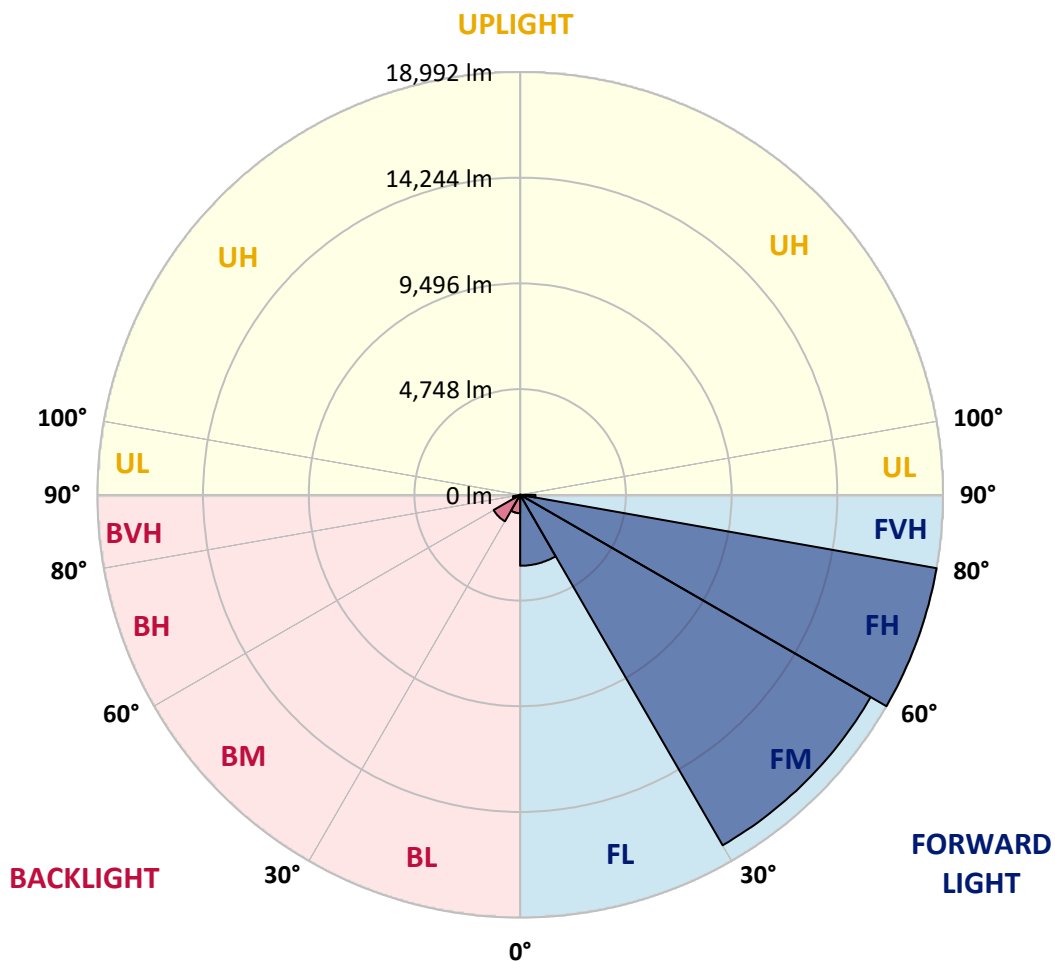
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3188.1	7.3			
FM	(30°-60°)	18176.5	41.7			
FH	(60°-80°)	18991.9	43.6			G5
FVH	(80°-90°)	688.3	1.6			G4/750
BL	(0°-30°)	826.2	1.9	B2/1000		
BM	(30°-60°)	1370.9	3.1	B2/2500		
BH	(60°-80°)	331.2	0.8	B1/500		G1/500
BVH	(80°-90°)	22.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4
2.5°	7151.7	7112.8	7089.5	7058.3	7019.4	6985.7	6972.7	6876.7	6785.8	6661.3	6518.6
5°	7284.1	7271.1	7229.6	7188.1	7141.4	7089.5	7060.9	6946.7	6817.0	6635.3	6386.2
7.5°	7297.0	7281.5	7229.6	7172.5	7107.6	7045.3	6996.0	6881.9	6762.5	6578.2	6274.6
10°	7276.3	7258.1	7219.2	7156.9	7076.5	7016.8	6967.5	6858.5	6757.3	6591.2	6253.9
12.5°	7252.9	7234.8	7216.6	7185.5	7115.4	7073.9	7032.4	6928.6	6837.7	6697.6	6329.1
15°	7276.3	7265.9	7286.7	7273.7	7234.8	7198.4	7156.9	7063.5	6980.5	6863.7	6466.7
17.5°	7374.9	7374.9	7439.8	7447.6	7411.2	7359.3	7299.6	7206.2	7136.2	7037.6	6630.1
20°	7605.9	7598.1	7681.1	7696.7	7608.4	7528.0	7439.8	7325.6	7271.1	7208.8	6791.0
22.5°	8002.9	7966.6	8015.9	8000.3	7826.4	7701.9	7592.9	7452.7	7424.2	7395.7	6970.1
25°	8519.3	8498.5	8532.3	8379.2	8072.9	7904.3	7774.5	7616.2	7616.2	7644.8	7172.5
27.5°	9269.2	9191.4	9077.2	8807.3	8348.0	8132.6	7992.5	7823.8	7867.9	7974.3	7439.8
30°	10037.3	9951.7	9689.6	9274.4	8682.8	8457.0	8293.5	8117.1	8220.9	8415.5	7797.9
32.5°	10795.1	10699.1	10328.0	9803.8	9162.8	8937.1	8778.8	8584.2	8758.0	9085.0	8322.1
35°	11529.4	11443.8	11015.6	10398.0	9801.2	9614.4	9469.0	9300.4	9523.5	9980.2	9061.6
37.5°	12354.6	12261.2	11739.6	11070.1	10577.1	10442.2	10335.8	10167.1	10556.3	11225.8	10091.8
40°	13369.3	13211.0	12507.7	11840.8	11474.9	11410.1	11337.4	11314.1	11918.7	12845.1	11464.6
42.5°	14531.8	14272.3	13312.2	12653.1	12461.0	12507.7	12489.6	12593.4	13623.6	14858.8	13135.7
45°	15694.4	15359.6	14207.4	13519.8	13545.7	13709.2	13810.4	14225.6	15759.2	17168.3	14934.0
47.5°	16680.5	16350.9	15066.4	14456.6	14768.0	15089.7	15364.8	16151.1	17954.6	19441.5	16332.7
50°	17523.8	17212.4	15977.2	15486.8	16187.4	16706.4	17152.7	18317.9	20316.0	21172.3	17313.6
52.5°	18214.1	18006.5	16921.8	16667.5	17809.3	18569.6	19223.5	20619.6	22407.5	22578.8	18076.5
55°	18886.2	18738.3	17936.4	18071.4	19714.0	20749.4	21577.2	23061.5	24208.5	23751.7	18808.3
57.5°	19659.5	19524.5	19093.8	19851.5	22218.1	23520.8	24423.8	25225.7	25794.0	24950.6	19498.6
60°	20448.3	20370.5	20380.9	21828.9	25093.3	26344.1	26842.3	27049.9	27351.0	26079.4	19537.5
62.5°	21200.9	21348.8	21852.2	24029.4	27846.6	28806.7	29058.4	29263.5	28910.5	26258.5	18050.6
65°	22475.0	22716.3	23917.8	26974.7	30874.9	31902.5	32162.0	31458.8	29157.1	23943.8	14682.3
67.5°	23097.8	23539.0	25682.4	29720.2	33812.4	34954.2	34858.2	31601.5	26165.1	18258.2	9422.3
69°	22968.1	23437.7	26089.8	30560.9	34788.1	35823.5	35213.7	29855.1	22290.8	13226.6	5784.2
70°	22454.3	22929.1	25879.6	30529.8	34912.7	35732.7	34554.6	27698.7	18847.3	9671.4	3617.4
72.5°	18751.2	19161.2	22975.8	27594.9	32162.0	31495.1	28907.9	19189.8	9183.6	2633.9	814.8
75°	11542.4	11770.8	16485.8	20788.3	24291.5	22578.8	19259.9	9546.9	2737.7	744.8	451.5
77.5°	6098.2	6202.0	9025.3	12253.4	15398.5	12741.3	9871.3	3723.8	1261.2	467.1	327.0
80°	3604.4	3682.3	4860.4	5602.5	6663.9	5566.2	3946.9	2286.2	903.0	293.2	290.6
82.5°	2063.0	2112.3	3524.0	3114.0	2626.1	2242.1	1964.4	2166.8	542.3	197.2	301.0
85°	757.7	768.1	1982.6	2369.2	1562.2	929.0	975.7	1795.7	145.3	124.6	236.1
87.5°	352.9	345.1	1019.8	1450.6	913.4	589.1	760.3	394.4	57.1	80.4	64.9
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°	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4	6513.4
2.5°	6435.5	6339.5	6165.6	5986.6	5804.9	5664.8	5527.3	5418.3	5382.0	5314.5	5319.7
5°	6238.3	6061.8	5698.5	5330.1	4946.0	4629.4	4331.0	4089.7	3972.9	3853.5	3853.5
7.5°	6067.0	5810.1	5241.8	4642.4	4022.2	3500.6	3030.9	2678.0	2483.4	2327.7	2325.1
10°	6002.2	5654.4	4860.4	4001.4	3137.3	2426.3	1868.4	1510.3	1326.0	1206.7	1201.5
12.5°	6030.7	5599.9	4567.1	3409.8	2325.1	1559.6	1082.1	851.1	773.3	737.0	737.0
15°	6113.7	5584.4	4273.9	2831.1	1642.6	975.7	718.8	656.5	651.3	651.3	651.3
17.5°	6214.9	5589.6	3972.9	2268.0	1118.4	698.0	620.2	612.4	617.6	617.6	617.6
20°	6318.7	5592.2	3648.5	1746.4	788.9	607.2	583.9	581.3	586.5	586.5	589.1
22.5°	6445.9	5605.1	3324.2	1305.3	651.3	573.5	555.3	555.3	557.9	557.9	555.3
25°	6591.2	5631.1	2986.8	967.9	594.2	550.1	534.6	532.0	534.6	532.0	529.4
27.5°	6772.9	5667.4	2610.5	757.7	568.3	526.8	513.8	513.8	511.2	508.6	506.0
30°	7001.2	5708.9	2187.6	643.6	542.3	506.0	493.0	490.4	487.9	482.7	482.7
32.5°	7348.9	5799.8	1769.8	583.9	513.8	477.5	467.1	467.1	461.9	456.7	454.1
35°	7883.5	5978.8	1396.1	547.5	482.7	446.3	433.4	433.4	428.2	425.6	423.0
37.5°	8623.1	6251.3	1084.7	513.8	451.5	412.6	399.6	397.0	391.8	386.7	384.1
40°	9606.6	6588.6	853.7	482.7	420.4	378.9	368.5	363.3	352.9	345.1	345.1
42.5°	10841.8	6972.7	692.9	448.9	384.1	347.7	339.9	332.2	314.0	306.2	303.6
45°	12134.1	7317.8	586.5	410.0	347.7	316.6	311.4	298.4	275.1	267.3	267.3
47.5°	13065.7	7398.3	516.4	373.7	314.0	282.9	280.3	256.9	236.1	231.0	228.4
50°	13646.9	7240.0	459.3	337.3	282.9	251.7	243.9	215.4	202.4	197.2	194.6
52.5°	14038.8	6957.1	412.6	306.2	254.3	223.2	205.0	184.2	173.9	168.7	168.7
55°	14352.8	6557.5	365.9	277.7	231.0	199.8	173.9	158.3	147.9	142.7	142.7
57.5°	14441.0	6015.1	319.2	254.3	207.6	176.5	147.9	137.5	124.6	122.0	122.0
60°	13800.0	5036.8	282.9	225.8	186.8	153.1	129.7	116.8	103.8	101.2	98.6
62.5°	12110.7	3897.6	249.1	199.8	163.5	132.3	111.6	96.0	85.6	85.6	85.6
65°	9238.1	2613.1	218.0	173.9	142.7	111.6	96.0	77.8	72.7	72.7	75.3
67.5°	5529.9	1422.0	186.8	147.9	122.0	93.4	80.4	67.5	64.9	67.5	67.5
69°	3241.1	835.6	168.7	132.3	106.4	83.0	70.1	59.7	64.9	67.5	67.5
70°	2000.7	563.1	155.7	119.4	96.0	75.3	64.9	57.1	62.3	64.9	64.9
72.5°	557.9	290.6	124.6	93.4	77.8	62.3	51.9	51.9	59.7	62.3	62.3
75°	363.3	215.4	96.0	70.1	59.7	49.3	44.1	49.3	57.1	59.7	59.7
77.5°	301.0	176.5	77.8	57.1	49.3	46.7	41.5	44.1	51.9	54.5	54.5
80°	275.1	124.6	62.3	51.9	44.1	41.5	38.9	36.3	46.7	49.3	49.3
82.5°	262.1	98.6	54.5	46.7	41.5	36.3	33.7	36.3	41.5	44.1	46.7
85°	163.5	64.9	49.3	44.1	36.3	33.7	33.7	33.7	38.9	41.5	41.5
87.5°	59.7	51.9	44.1	36.3	31.1	31.1	31.1	31.1	33.7	38.9	38.9
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)