

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: P300877

Luminaire Tested: **GLNA-AF-07-LED-E1-SL4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300877  
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-07-LED-E1-SL4-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38562.6 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

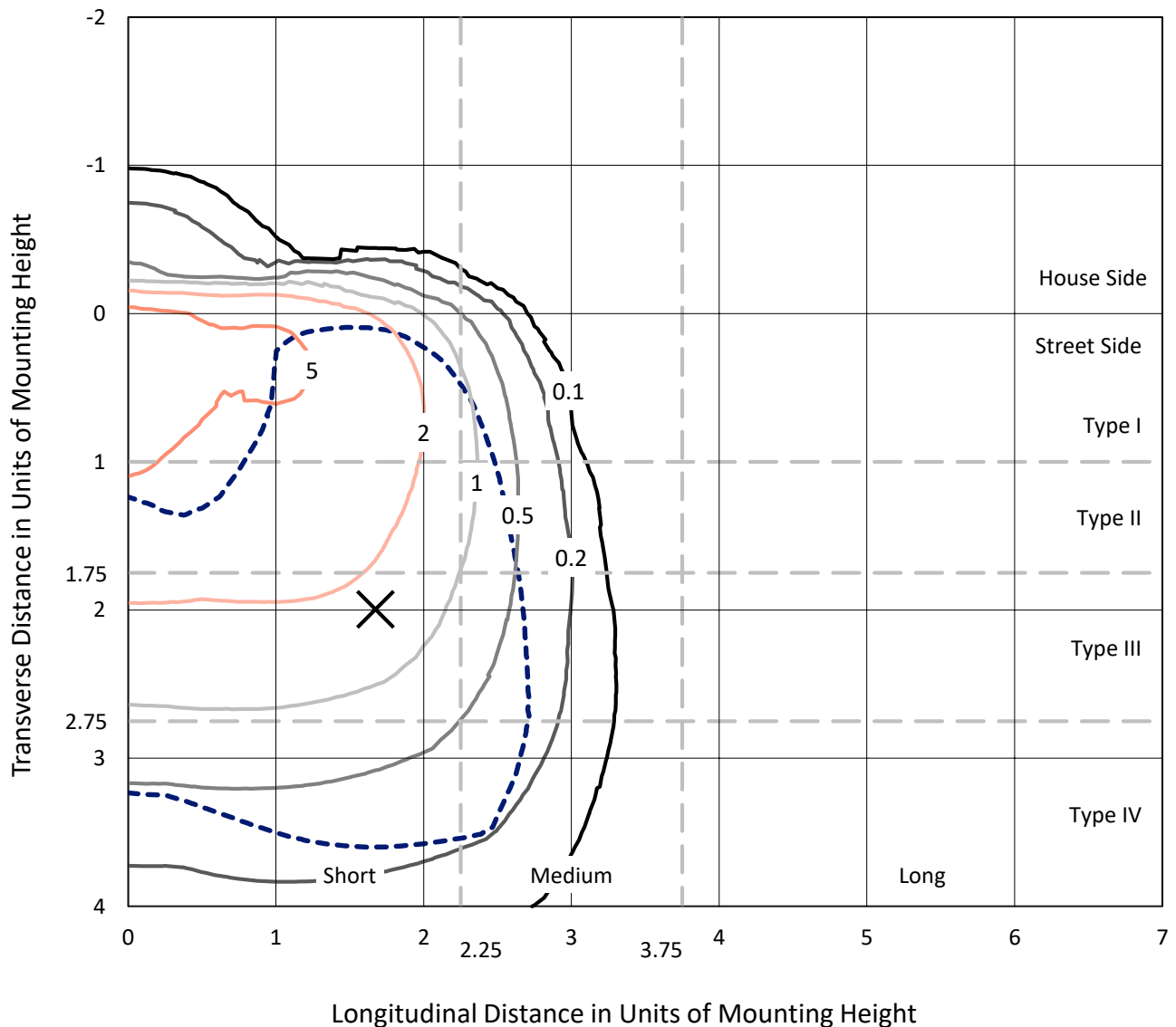
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

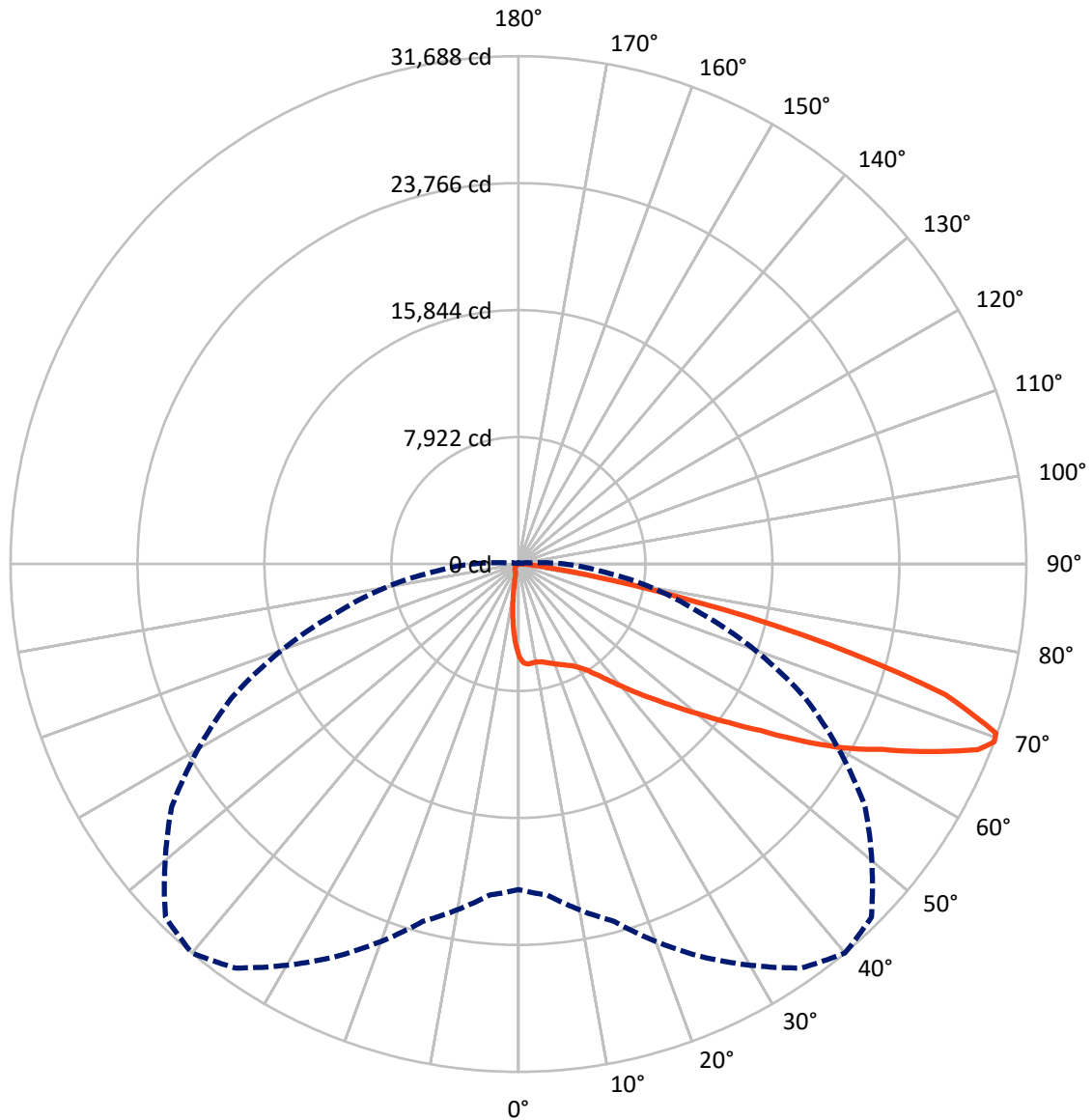
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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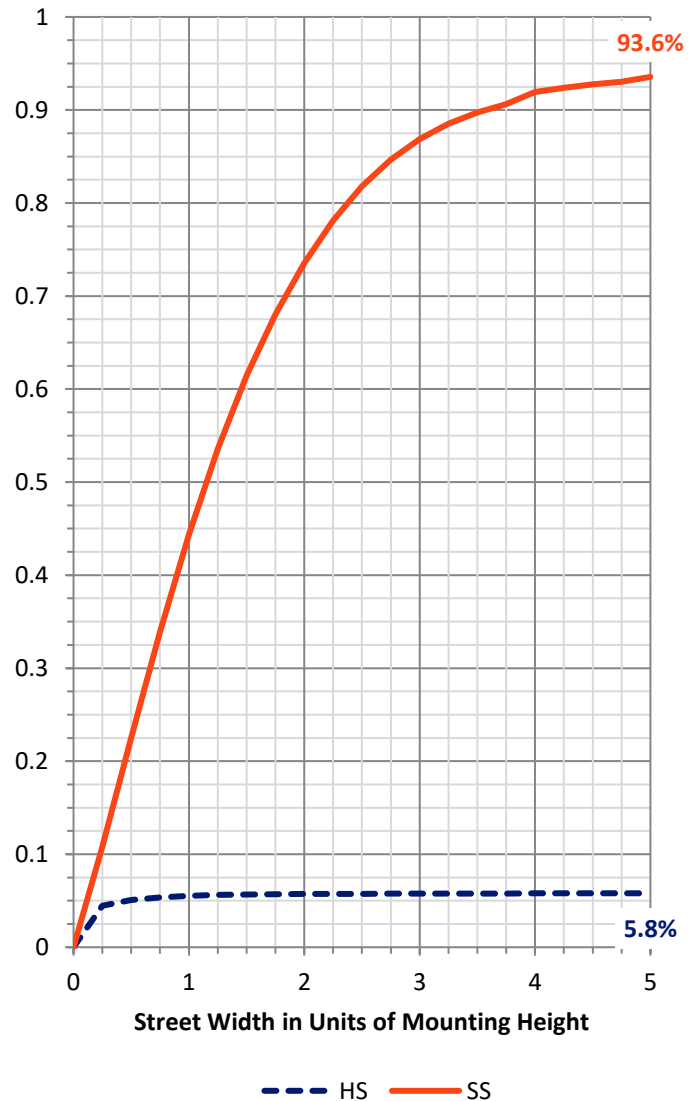
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2256.1	0.0	2256.1
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	36306.4	0.0	36306.4
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	38562.6	0.0	38562.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.1	1.2
10°-20°	1148.8	3.0
20°-30°	1934.9	5.0
30°-40°	3167.6	8.2
40°-50°	5484.5	14.2
50°-60°	8638.7	22.4
60°-70°	11281.8	29.3
70°-80°	5810.6	15.1
80°-90°	628.5	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°	38562.6	100.0
0°-180°	38562.6	100.0



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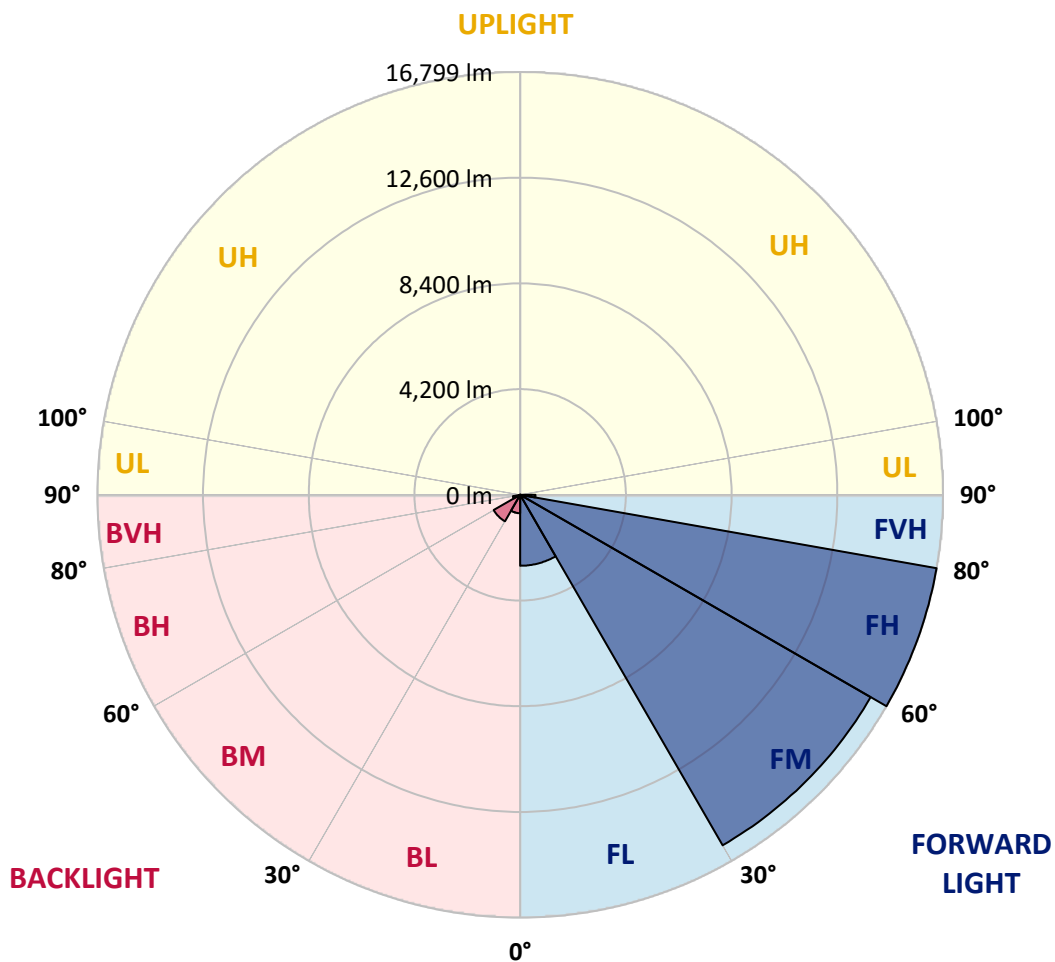
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2820.0	7.3			
FM	(30°-60°)	16078.2	41.7			
FH	(60°-80°)	16799.4	43.6			G5
FVH	(80°-90°)	608.8	1.6			G4/750
BL	(0°-30°)	730.8	1.9	B2/1000		
BM	(30°-60°)	1212.6	3.1	B2/2500		
BH	(60°-80°)	293.0	0.8	B1/500		G1/500
BVH	(80°-90°)	19.7	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°	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4
2.5°	6326.1	6291.7	6271.0	6243.5	6209.0	6179.2	6167.7	6082.8	6002.5	5892.3	5766.0
5°	6443.2	6431.7	6395.0	6358.2	6316.9	6271.0	6245.8	6144.8	6030.0	5869.3	5649.0
7.5°	6454.7	6440.9	6395.0	6344.5	6287.1	6232.0	6188.4	6087.4	5981.8	5818.8	5550.3
10°	6436.3	6420.2	6385.8	6330.7	6259.5	6206.8	6163.1	6066.7	5977.2	5830.3	5531.9
12.5°	6415.6	6399.6	6383.5	6356.0	6294.0	6257.3	6220.5	6128.7	6048.4	5924.4	5598.5
15°	6436.3	6427.1	6445.5	6434.0	6399.6	6367.4	6330.7	6248.1	6174.6	6071.3	5720.1
17.5°	6523.5	6523.5	6580.9	6587.8	6555.7	6509.7	6457.0	6374.3	6312.3	6225.1	5864.7
20°	6727.8	6720.9	6794.4	6808.1	6730.1	6658.9	6580.9	6479.9	6431.7	6376.6	6007.1
22.5°	7079.0	7046.9	7090.5	7076.7	6922.9	6812.7	6716.3	6592.4	6567.1	6541.9	6165.4
25°	7535.8	7517.4	7547.3	7411.8	7141.0	6991.8	6877.0	6737.0	6737.0	6762.2	6344.5
27.5°	8199.2	8130.3	8029.3	7790.6	7384.3	7193.8	7069.8	6920.6	6959.6	7053.8	6580.9
30°	8878.6	8802.8	8571.0	8203.7	7680.4	7480.7	7336.1	7180.0	7271.8	7444.0	6897.7
32.5°	9548.9	9463.9	9135.7	8672.0	8105.0	7905.3	7765.3	7593.2	7747.0	8036.2	7361.3
35°	10198.4	10122.7	9744.0	9197.7	8669.7	8504.4	8375.9	8226.7	8424.1	8828.1	8015.5
37.5°	10928.4	10845.8	10384.4	9792.2	9356.0	9236.7	9142.6	8993.4	9337.7	9929.9	8926.8
40°	11825.9	11685.9	11063.8	10473.9	10150.2	10092.9	10028.6	10007.9	10542.8	11362.2	10141.1
42.5°	12854.2	12624.7	11775.4	11192.4	11022.5	11063.8	11047.7	11139.6	12050.8	13143.4	11619.3
45°	13882.6	13586.5	12567.3	11959.0	11982.0	12126.6	12216.1	12583.4	13939.9	15186.3	13210.0
47.5°	14754.8	14463.3	13327.1	12787.7	13063.1	13347.7	13591.0	14286.6	15881.9	17197.1	14447.2
50°	15500.8	15225.4	14132.8	13698.9	14318.7	14777.8	15172.6	16203.2	17970.7	18728.1	15314.9
52.5°	16111.4	15927.8	14968.3	14743.3	15753.3	16425.9	17004.3	18239.2	19820.8	19972.2	15989.7
55°	16705.9	16575.1	15865.8	15985.1	17438.1	18354.0	19086.2	20399.2	21413.8	21009.8	16637.0
57.5°	17389.9	17270.6	16889.5	17559.8	19653.2	20805.5	21604.3	22313.6	22816.2	22070.2	17247.6
60°	18087.7	18018.9	18028.0	19308.9	22196.5	23302.9	23743.6	23927.2	24193.5	23068.7	17282.0
62.5°	18753.4	18884.2	19329.5	21255.4	24631.9	25481.2	25703.9	25885.2	25573.0	23227.1	15966.8
65°	19880.4	20093.9	21156.7	23860.7	27310.6	28219.6	28449.2	27827.1	25791.1	21179.6	12987.4
67.5°	20431.3	20821.5	22717.5	26289.2	29909.0	30919.0	30834.1	27953.3	23144.5	16150.4	8334.6
69°	20316.6	20732.0	23077.9	27032.9	30772.1	31688.0	31148.5	26408.5	19717.5	11699.6	5116.4
70°	19862.1	20282.1	22892.0	27005.3	30882.3	31607.6	30565.5	24501.1	16671.5	8554.9	3199.8
72.5°	16586.5	16949.2	20323.4	24409.3	28449.2	27859.2	25570.7	16974.5	8123.4	2329.8	720.8
75°	10209.9	10411.9	14582.7	18388.4	21487.2	19972.2	17036.4	8444.8	2421.6	658.8	399.4
77.5°	5394.2	5486.0	7983.4	10838.9	13620.9	11270.4	8731.7	3293.9	1115.6	413.2	289.2
80°	3188.3	3257.2	4299.3	4955.8	5894.6	4923.6	3491.3	2022.2	798.8	259.4	257.1
82.5°	1824.8	1868.5	3117.1	2754.5	2322.9	1983.2	1737.6	1916.7	479.7	174.5	266.3
85°	670.3	679.4	1753.7	2095.7	1381.8	821.8	863.1	1588.4	128.5	110.2	208.9
87.5°	312.2	305.3	902.1	1283.1	808.0	521.1	672.6	348.9	50.5	71.2	57.4
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°	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4	5761.4
2.5°	5692.6	5607.7	5453.9	5295.5	5134.8	5010.9	4889.2	4792.8	4760.7	4701.0	4705.6
5°	5518.1	5362.0	5040.7	4714.7	4375.0	4095.0	3831.0	3617.5	3514.3	3408.7	3408.7
7.5°	5366.6	5139.4	4636.7	4106.5	3557.9	3096.5	2681.0	2368.8	2196.7	2059.0	2056.7
10°	5309.3	5001.7	4299.3	3539.5	2775.1	2146.2	1652.7	1335.9	1172.9	1067.4	1062.8
12.5°	5334.5	4953.5	4039.9	3016.2	2056.7	1379.5	957.2	752.9	684.0	651.9	651.9
15°	5408.0	4939.7	3780.5	2504.3	1453.0	863.1	635.8	580.7	576.1	576.1	576.1
17.5°	5497.5	4944.3	3514.3	2006.2	989.3	617.5	548.6	541.7	546.3	546.3	546.3
20°	5589.3	4946.6	3227.3	1544.8	697.8	537.1	516.5	514.2	518.8	518.8	521.1
22.5°	5701.8	4958.1	2940.4	1154.6	576.1	507.3	491.2	491.2	493.5	493.5	491.2
25°	5830.3	4981.0	2642.0	856.2	525.6	486.6	472.9	470.6	472.9	470.6	468.3
27.5°	5991.0	5013.1	2309.2	670.3	502.7	466.0	454.5	454.5	452.2	449.9	447.6
30°	6193.0	5049.9	1935.0	569.3	479.7	447.6	436.1	433.8	431.5	426.9	426.9
32.5°	6500.6	5130.2	1565.5	516.5	454.5	422.4	413.2	413.2	408.6	404.0	401.7
35°	6973.4	5288.6	1234.9	484.3	426.9	394.8	383.3	383.3	378.7	376.4	374.1
37.5°	7627.6	5529.6	959.5	454.5	399.4	365.0	353.5	351.2	346.6	342.0	339.7
40°	8497.6	5828.0	755.2	426.9	371.9	335.1	325.9	321.4	312.2	305.3	305.3
42.5°	9590.2	6167.7	612.9	397.1	339.7	307.6	300.7	293.8	277.7	270.9	268.6
45°	10733.3	6473.0	518.8	362.7	307.6	280.0	275.4	264.0	243.3	236.4	236.4
47.5°	11557.3	6544.2	456.8	330.5	277.7	250.2	247.9	227.2	208.9	204.3	202.0
50°	12071.5	6404.2	406.3	298.4	250.2	222.7	215.8	190.5	179.0	174.5	172.2
52.5°	12418.1	6154.0	365.0	270.9	224.9	197.4	181.3	163.0	153.8	149.2	149.2
55°	12695.8	5800.5	323.7	245.6	204.3	176.7	153.8	140.0	130.8	126.2	126.2
57.5°	12773.9	5320.7	282.3	224.9	183.6	156.1	130.8	121.7	110.2	107.9	107.9
60°	12206.9	4455.4	250.2	199.7	165.3	135.4	114.8	103.3	91.8	89.5	87.2
62.5°	10712.6	3447.7	220.4	176.7	144.6	117.1	98.7	84.9	75.7	75.7	75.7
65°	8171.6	2311.5	192.8	153.8	126.2	98.7	84.9	68.9	64.3	64.3	66.6
67.5°	4891.5	1257.9	165.3	130.8	107.9	82.6	71.2	59.7	57.4	59.7	59.7
69°	2867.0	739.1	149.2	117.1	94.1	73.5	62.0	52.8	57.4	59.7	59.7
70°	1769.8	498.1	137.7	105.6	84.9	66.6	57.4	50.5	55.1	57.4	57.4
72.5°	493.5	257.1	110.2	82.6	68.9	55.1	45.9	45.9	52.8	55.1	55.1
75°	321.4	190.5	84.9	62.0	52.8	43.6	39.0	43.6	50.5	52.8	52.8
77.5°	266.3	156.1	68.9	50.5	43.6	41.3	36.7	39.0	45.9	48.2	48.2
80°	243.3	110.2	55.1	45.9	39.0	36.7	34.4	32.1	41.3	43.6	43.6
82.5°	231.8	87.2	48.2	41.3	36.7	32.1	29.8	32.1	36.7	39.0	41.3
85°	144.6	57.4	43.6	39.0	32.1	29.8	29.8	29.8	34.4	36.7	36.7
87.5°	52.8	45.9	39.0	32.1	27.5	27.5	27.5	27.5	29.8	34.4	34.4
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)