

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: P300925

Luminaire Tested: **GLNA-AF-05-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300925  
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-05-LED-E1-SL4-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 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: 22013.7 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4

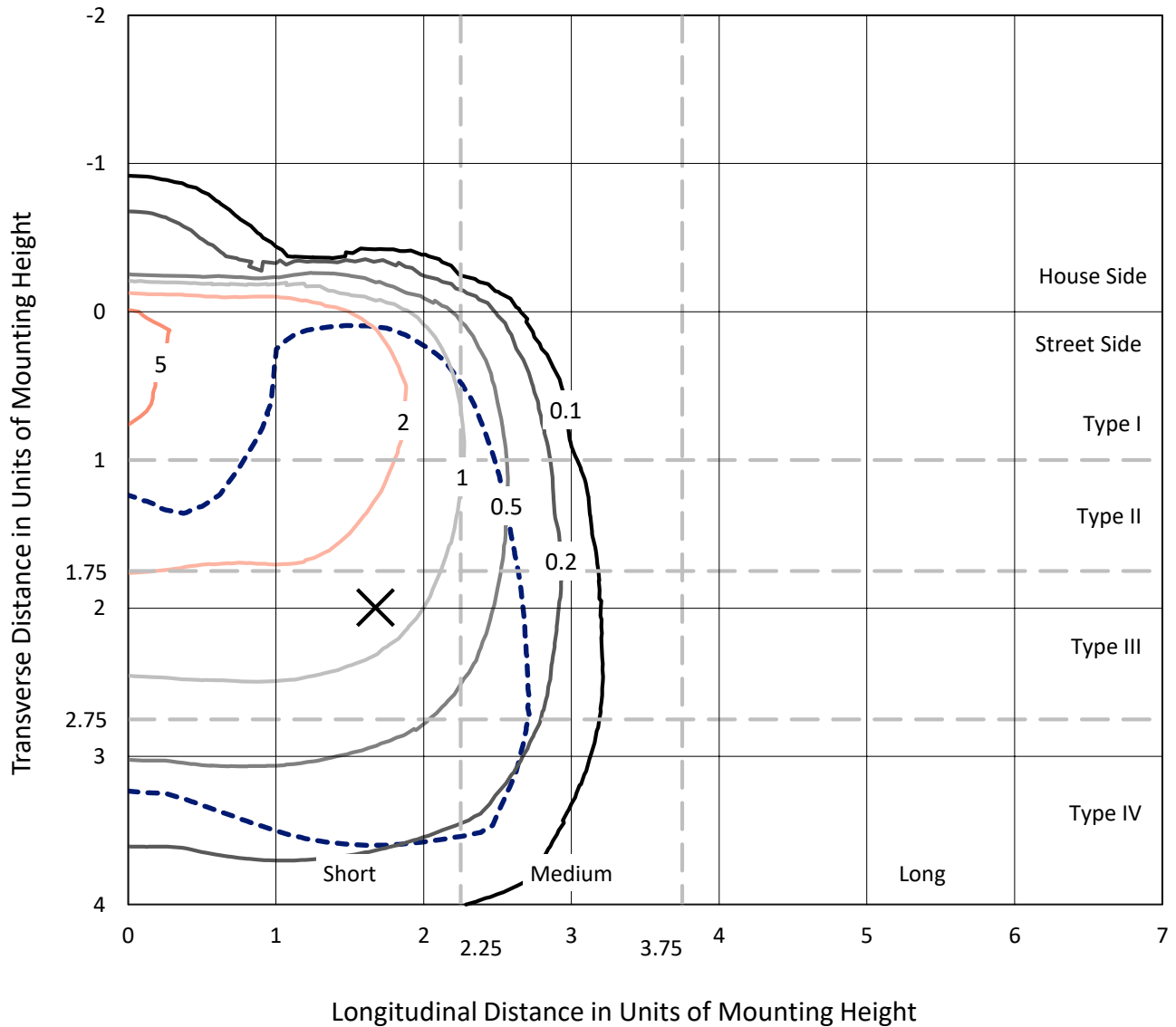
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

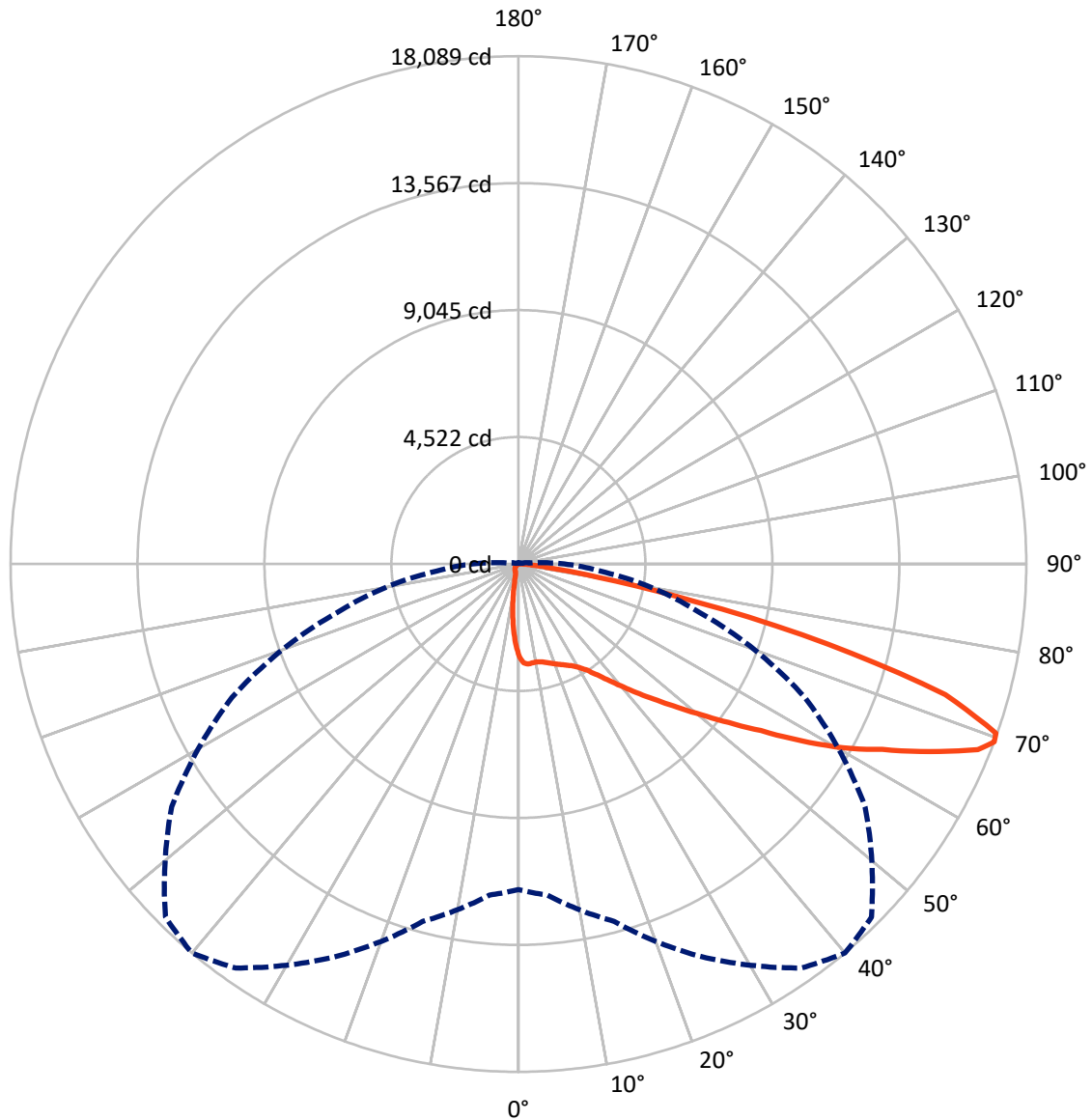
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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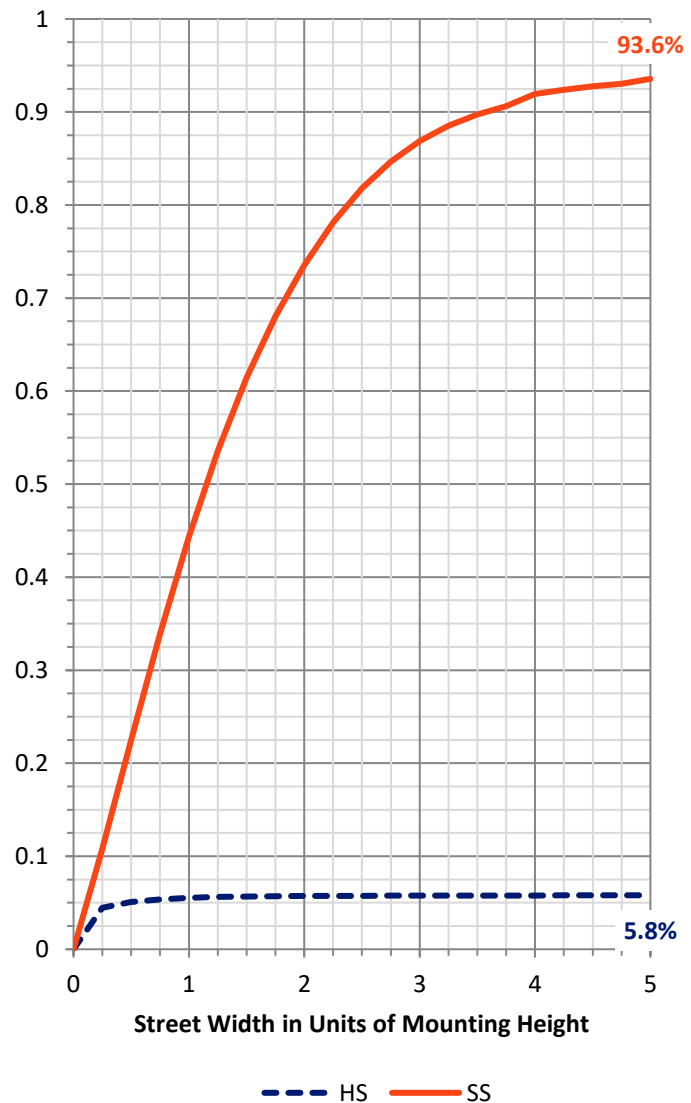
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1287.9	0.0	1287.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	20725.8	0.0	20725.8
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	22013.7	0.0	22013.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.7	1.2
10°-20°	655.8	3.0
20°-30°	1104.6	5.0
30°-40°	1808.2	8.2
40°-50°	3130.9	14.2
50°-60°	4931.4	22.4
60°-70°	6440.3	29.3
70°-80°	3317.0	15.1
80°-90°	358.8	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°	22013.7	100.0
0°-180°	22013.7	100.0

**Coefficient of Utilization**



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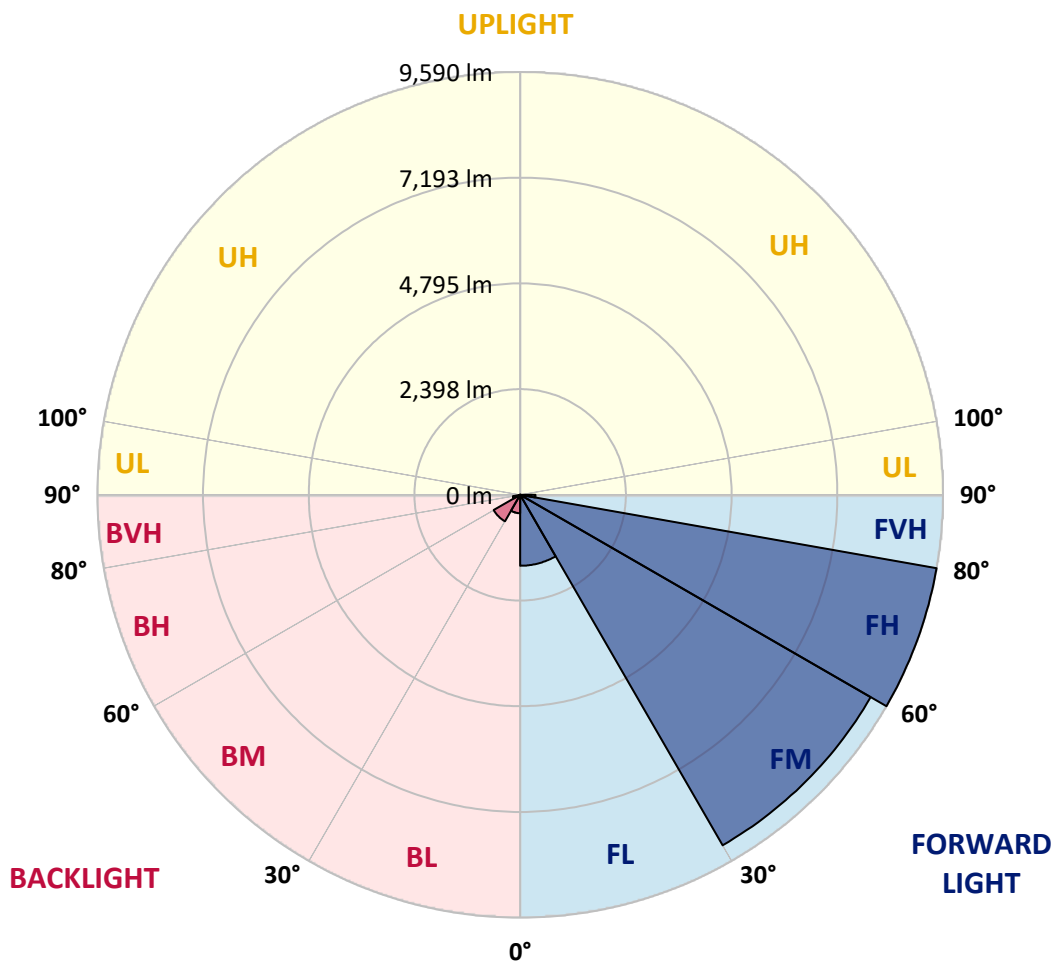
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1609.8	7.3			
FM	(30°-60°)	9178.3	41.7			
FH	(60°-80°)	9590.1	43.6			G4/12000
FVH	(80°-90°)	347.5	1.6			G3/500
BL	(0°-30°)	417.2	1.9	B1/500		
BM	(30°-60°)	692.2	3.1	B1/1000		
BH	(60°-80°)	167.2	0.8	B1/500		G1/500
BVH	(80°-90°)	11.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0
2.5°	3611.3	3591.6	3579.9	3564.1	3544.5	3527.4	3520.9	3472.4	3426.5	3363.6	3291.6
5°	3678.1	3671.6	3650.6	3629.6	3606.1	3579.9	3565.4	3507.8	3442.3	3350.5	3224.8
7.5°	3684.7	3676.8	3650.6	3621.8	3589.0	3557.6	3532.7	3475.0	3414.8	3321.7	3168.4
10°	3674.2	3665.0	3645.4	3613.9	3573.3	3543.2	3518.3	3463.2	3412.1	3328.3	3157.9
12.5°	3662.4	3653.2	3644.1	3628.3	3593.0	3572.0	3551.0	3498.6	3452.8	3382.0	3195.9
15°	3674.2	3669.0	3679.4	3672.9	3653.2	3634.9	3613.9	3566.8	3524.8	3465.9	3265.4
17.5°	3724.0	3724.0	3756.8	3760.7	3742.3	3716.1	3686.0	3638.8	3603.4	3553.6	3347.9
20°	3840.6	3836.7	3878.6	3886.5	3841.9	3801.3	3756.8	3699.1	3671.6	3640.1	3429.2
22.5°	4041.1	4022.8	4047.6	4039.8	3952.0	3889.1	3834.1	3763.3	3748.9	3734.5	3519.6
25°	4301.9	4291.4	4308.4	4231.1	4076.5	3991.3	3925.8	3845.9	3845.9	3860.3	3621.8
27.5°	4680.5	4641.2	4583.6	4447.3	4215.4	4106.6	4035.9	3950.7	3973.0	4026.7	3756.8
30°	5068.4	5025.2	4892.8	4683.2	4384.4	4270.4	4187.9	4098.8	4151.2	4249.4	3937.6
32.5°	5451.0	5402.5	5215.2	4950.5	4626.8	4512.8	4432.9	4334.6	4422.4	4587.5	4202.3
35°	5821.9	5778.6	5562.4	5250.5	4949.2	4854.8	4781.4	4696.3	4809.0	5039.6	4575.7
37.5°	6238.5	6191.4	5928.0	5589.9	5341.0	5272.8	5219.1	5133.9	5330.5	5668.5	5095.9
40°	6750.9	6671.0	6315.9	5979.1	5794.3	5761.6	5724.9	5713.1	6018.4	6486.2	5789.1
42.5°	7337.9	7206.9	6722.1	6389.2	6292.3	6315.9	6306.7	6359.1	6879.3	7503.0	6633.0
45°	7925.0	7755.9	7174.1	6826.9	6840.0	6922.5	6973.6	7183.3	7957.7	8669.2	7541.0
47.5°	8422.9	8256.5	7607.8	7299.9	7457.2	7619.6	7758.5	8155.6	9066.3	9817.1	8247.3
50°	8848.7	8691.5	8067.8	7820.1	8173.9	8436.0	8661.4	9249.7	10258.7	10691.1	8742.6
52.5°	9197.3	9092.5	8544.7	8416.3	8992.9	9376.8	9707.0	10412.0	11314.8	11401.3	9127.8
55°	9536.7	9462.0	9057.1	9125.2	9954.7	10477.5	10895.5	11645.0	12224.2	11993.6	9497.4
57.5°	9927.2	9859.0	9641.5	10024.1	11219.2	11876.9	12332.9	12737.8	13024.8	12598.9	9845.9
60°	10325.5	10286.2	10291.4	11022.6	12671.0	13302.6	13554.2	13659.0	13811.0	13168.9	9865.6
62.5°	10705.5	10780.2	11034.4	12133.8	14061.3	14546.1	14673.2	14776.7	14598.5	13259.4	9114.7
65°	11348.9	11470.7	12077.4	13621.0	15590.5	16109.4	16240.4	15885.3	14723.0	12090.5	7413.9
67.5°	11663.4	11886.1	12968.5	15007.4	17073.8	17650.3	17601.8	15957.4	13212.2	9219.6	4757.9
69°	11597.8	11835.0	13174.2	15431.9	17566.5	18089.3	17781.4	15075.5	11255.8	6678.8	2920.8
70°	11338.4	11578.2	13068.0	15416.2	17629.4	18043.4	17448.5	13986.6	9517.0	4883.6	1826.6
72.5°	9468.5	9675.6	11601.8	13934.2	16240.4	15903.6	14597.2	9690.0	4637.3	1330.0	411.4
75°	5828.4	5943.7	8324.6	10497.2	12266.1	11401.3	9725.4	4820.8	1382.4	376.1	228.0
77.5°	3079.3	3131.7	4557.4	6187.4	7775.6	6433.8	4984.5	1880.3	636.8	235.9	165.1
80°	1820.1	1859.4	2454.3	2829.0	3365.0	2810.7	1993.0	1154.4	456.0	148.1	146.8
82.5°	1041.7	1066.6	1779.4	1572.4	1326.1	1132.1	991.9	1094.1	273.9	99.6	152.0
85°	382.6	387.9	1001.1	1196.3	788.8	469.1	492.7	906.8	73.4	62.9	119.2
87.5°	178.2	174.3	515.0	732.5	461.2	297.4	383.9	199.2	28.8	40.6	32.8
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°	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0	3289.0
2.5°	3249.6	3201.2	3113.4	3023.0	2931.2	2860.5	2791.0	2736.0	2717.7	2683.6	2686.2
5°	3150.1	3061.0	2877.5	2691.4	2497.5	2337.7	2187.0	2065.1	2006.1	1945.9	1945.9
7.5°	3063.6	2933.9	2646.9	2344.2	2031.0	1767.7	1530.5	1352.3	1254.0	1175.4	1174.1
10°	3030.8	2855.2	2454.3	2020.5	1584.2	1225.2	943.4	762.6	669.6	609.3	606.7
12.5°	3045.2	2827.7	2306.2	1721.8	1174.1	787.5	546.4	429.8	390.5	372.1	372.1
15°	3087.2	2819.9	2158.1	1429.6	829.4	492.7	363.0	331.5	328.9	328.9	328.9
17.5°	3138.3	2822.5	2006.1	1145.2	564.8	352.5	313.2	309.2	311.9	311.9	311.9
20°	3190.7	2823.8	1842.3	881.9	398.3	306.6	294.8	293.5	296.1	296.1	297.4
22.5°	3254.9	2830.3	1678.5	659.1	328.9	289.6	280.4	280.4	281.7	281.7	280.4
25°	3328.3	2843.4	1508.2	488.8	300.1	277.8	269.9	268.6	269.9	268.6	267.3
27.5°	3420.0	2861.8	1318.2	382.6	287.0	266.0	259.4	259.4	258.1	256.8	255.5
30°	3535.3	2882.8	1104.6	325.0	273.9	255.5	249.0	247.7	246.3	243.7	243.7
32.5°	3710.9	2928.6	893.7	294.8	259.4	241.1	235.9	235.9	233.2	230.6	229.3
35°	3980.8	3019.0	705.0	276.5	243.7	225.4	218.8	218.8	216.2	214.9	213.6
37.5°	4354.3	3156.6	547.7	259.4	228.0	208.3	201.8	200.5	197.9	195.2	193.9
40°	4850.9	3327.0	431.1	243.7	212.3	191.3	186.1	183.4	178.2	174.3	174.3
42.5°	5474.6	3520.9	349.9	226.7	193.9	175.6	171.7	167.7	158.6	154.6	153.3
45°	6127.2	3695.2	296.1	207.0	175.6	159.9	157.2	150.7	138.9	135.0	135.0
47.5°	6597.6	3735.8	260.8	188.7	158.6	142.8	141.5	129.7	119.2	116.6	115.3
50°	6891.1	3655.9	231.9	170.3	142.8	127.1	123.2	108.8	102.2	99.6	98.3
52.5°	7089.0	3513.0	208.3	154.6	128.4	112.7	103.5	93.0	87.8	85.2	85.2
55°	7247.5	3311.2	184.8	140.2	116.6	100.9	87.8	79.9	74.7	72.1	72.1
57.5°	7292.1	3037.4	161.2	128.4	104.8	89.1	74.7	69.4	62.9	61.6	61.6
60°	6968.4	2543.4	142.8	114.0	94.3	77.3	65.5	59.0	52.4	51.1	49.8
62.5°	6115.4	1968.1	125.8	100.9	82.6	66.8	56.3	48.5	43.2	43.2	43.2
65°	4664.8	1319.5	110.1	87.8	72.1	56.3	48.5	39.3	36.7	36.7	38.0
67.5°	2792.3	718.1	94.3	74.7	61.6	47.2	40.6	34.1	32.8	34.1	34.1
69°	1636.6	421.9	85.2	66.8	53.7	41.9	35.4	30.1	32.8	34.1	34.1
70°	1010.3	284.3	78.6	60.3	48.5	38.0	32.8	28.8	31.4	32.8	32.8
72.5°	281.7	146.8	62.9	47.2	39.3	31.4	26.2	26.2	30.1	31.4	31.4
75°	183.4	108.8	48.5	35.4	30.1	24.9	22.3	24.9	28.8	30.1	30.1
77.5°	152.0	89.1	39.3	28.8	24.9	23.6	21.0	22.3	26.2	27.5	27.5
80°	138.9	62.9	31.4	26.2	22.3	21.0	19.7	18.3	23.6	24.9	24.9
82.5°	132.3	49.8	27.5	23.6	21.0	18.3	17.0	18.3	21.0	22.3	23.6
85°	82.6	32.8	24.9	22.3	18.3	17.0	17.0	17.0	19.7	21.0	21.0
87.5°	30.1	26.2	22.3	18.3	15.7	15.7	15.7	15.7	17.0	19.7	19.7
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)