

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: P300931

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300931  
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-06-LED-E1-SL4-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 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: 26343.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 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): 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

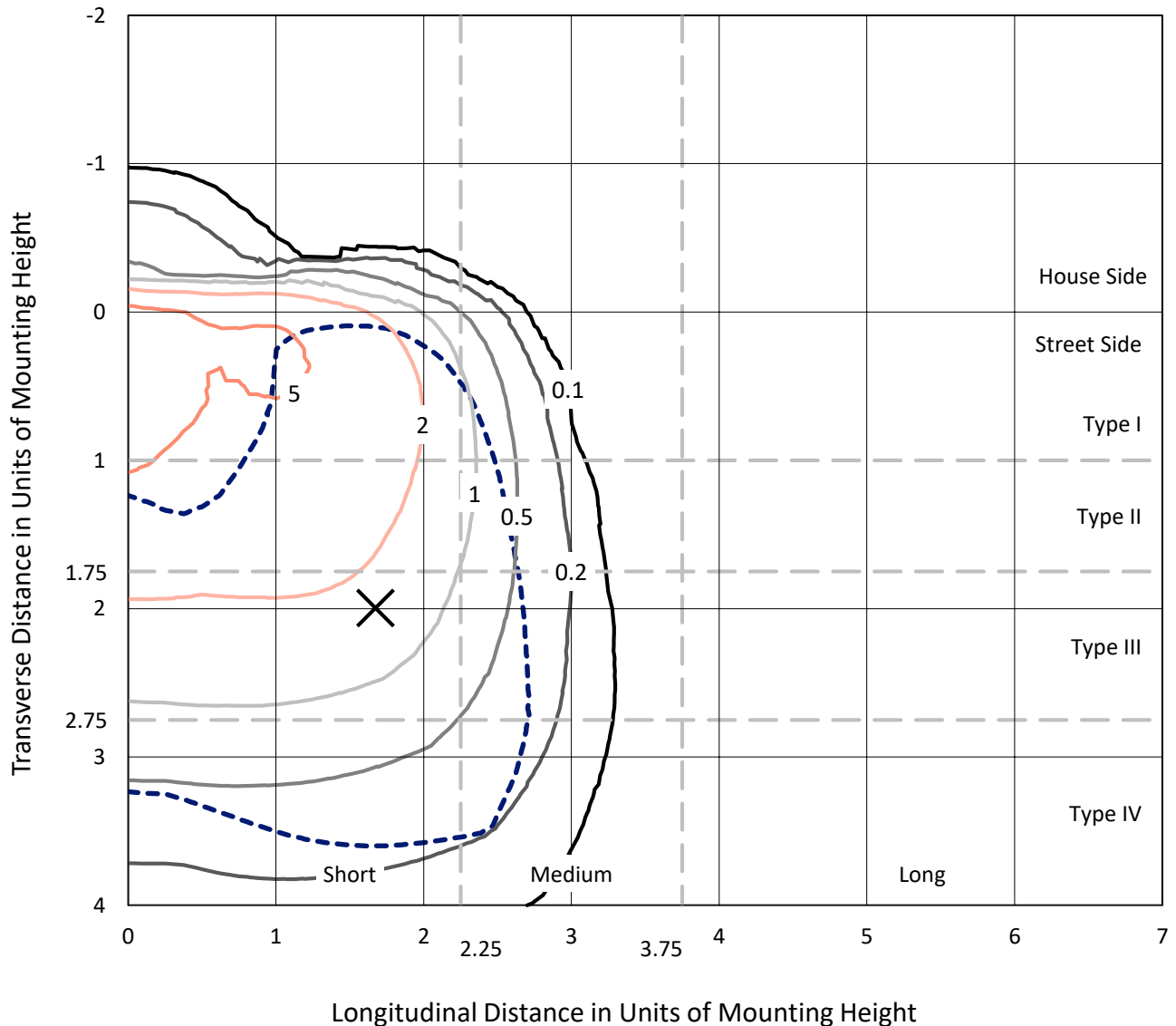


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### Iso-Footcandle Lines of Horizontal Illumination

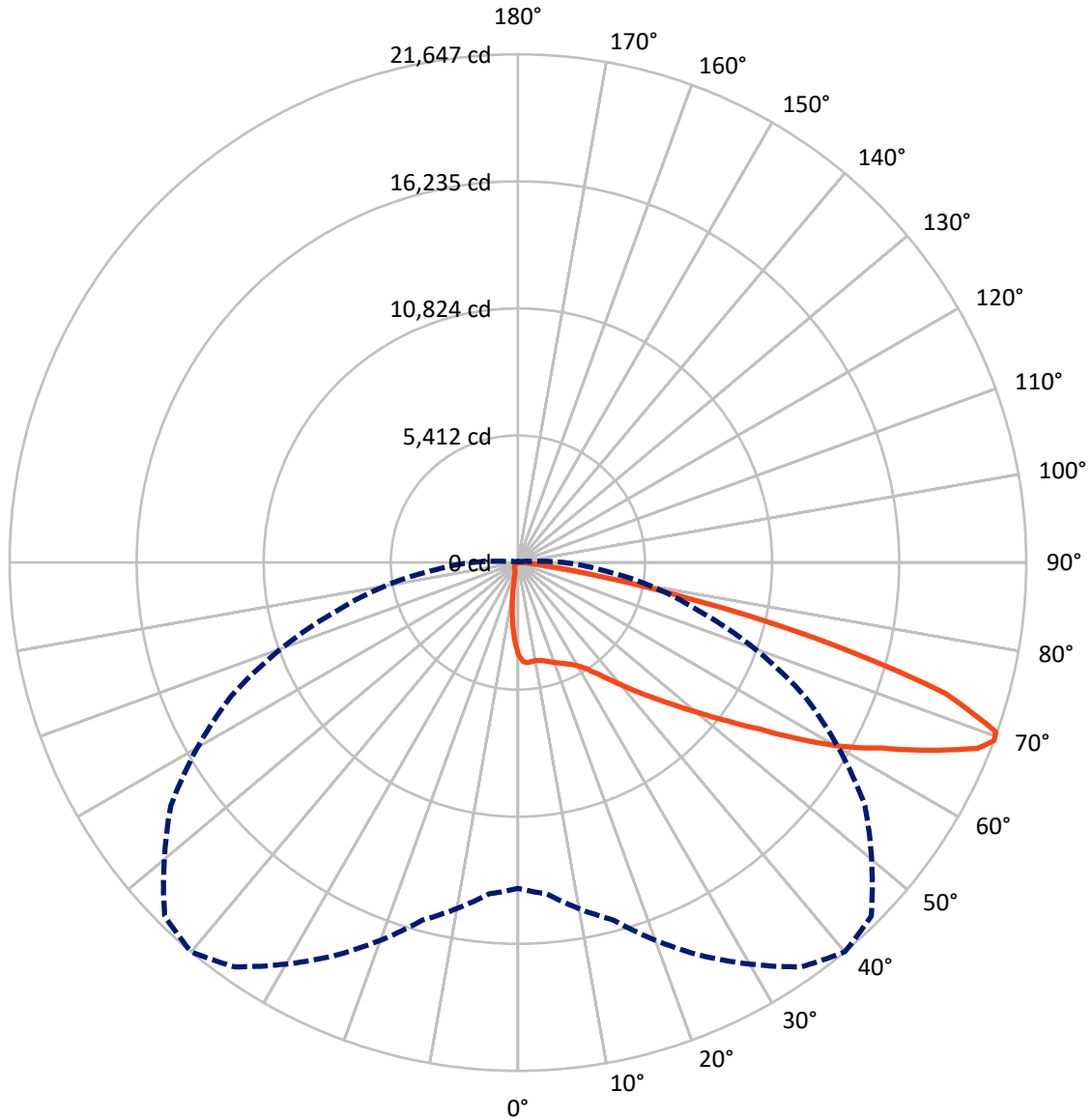
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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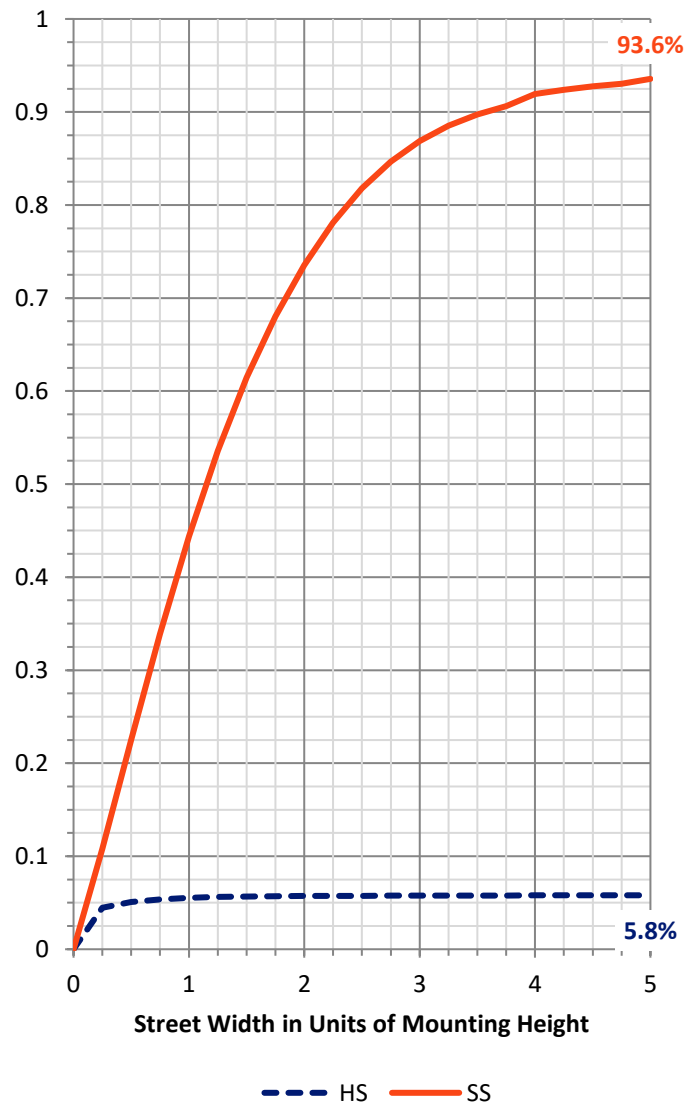
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1541.2	0.0	1541.2
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	24802.1	0.0	24802.1
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	26343.3	0.0	26343.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.1	1.2
10°-20°	784.8	3.0
20°-30°	1321.8	5.0
30°-40°	2163.9	8.2
40°-50°	3746.7	14.2
50°-60°	5901.4	22.4
60°-70°	7706.9	29.3
70°-80°	3969.4	15.1
80°-90°	429.4	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°	26343.3	100.0
0°-180°	26343.3	100.0

**Coefficient of Utilization**



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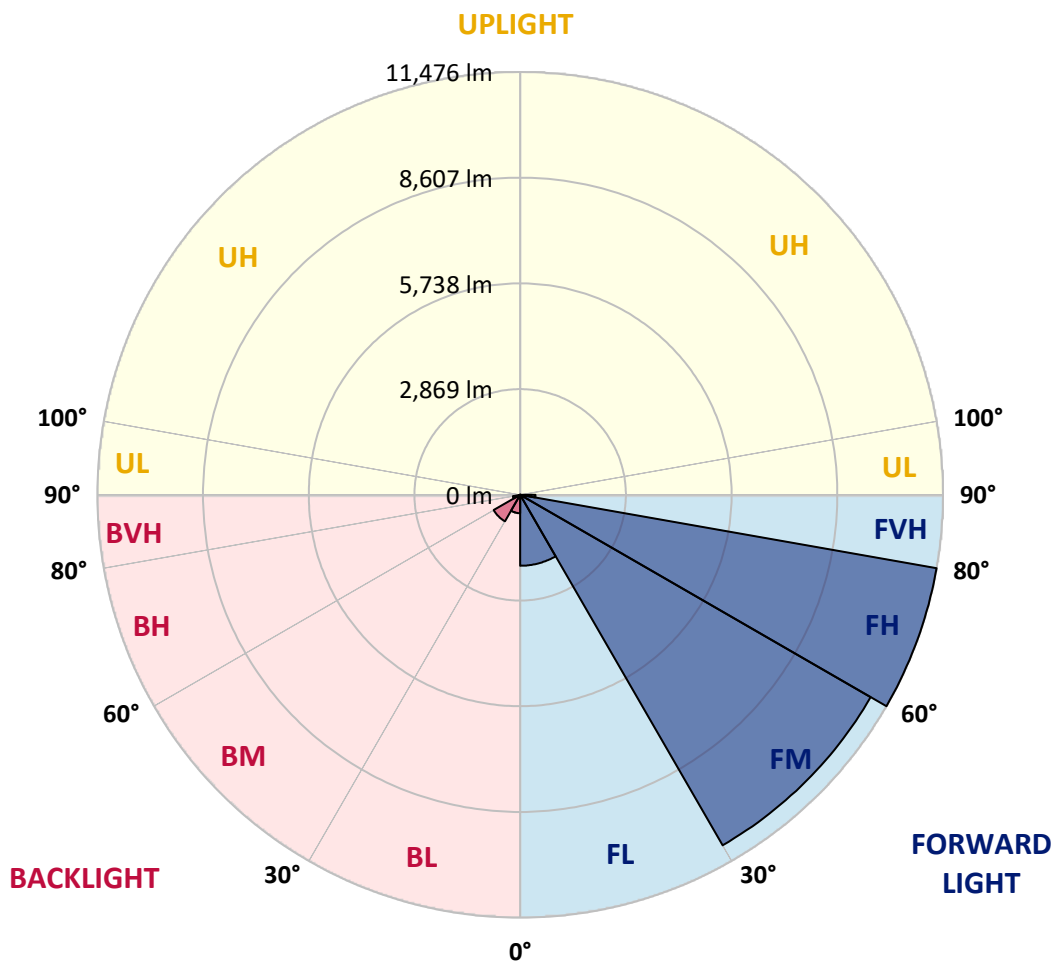
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1926.4	7.3			
FM	(30°-60°)	10983.5	41.7			
FH	(60°-80°)	11476.2	43.6			G4/12000
FVH	(80°-90°)	415.9	1.6			G3/500
BL	(0°-30°)	499.3	1.9	B1/500		
BM	(30°-60°)	828.4	3.1	B1/1000		
BH	(60°-80°)	200.1	0.8	B1/500		G1/500
BVH	(80°-90°)	13.5	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°	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8
2.5°	4321.6	4298.0	4283.9	4265.1	4241.6	4221.2	4213.4	4155.4	4100.5	4025.2	3939.0
5°	4401.5	4393.7	4368.6	4343.5	4315.3	4283.9	4266.7	4197.7	4119.3	4009.5	3859.0
7.5°	4409.4	4400.0	4368.6	4334.1	4294.9	4257.3	4227.5	4158.5	4086.4	3975.0	3791.6
10°	4396.8	4385.9	4362.3	4324.7	4276.1	4240.0	4210.2	4144.4	4083.2	3982.9	3779.0
12.5°	4382.7	4371.7	4360.8	4342.0	4299.6	4274.5	4249.4	4186.7	4131.8	4047.2	3824.5
15°	4396.8	4390.6	4403.1	4395.3	4371.7	4349.8	4324.7	4268.3	4218.1	4147.5	3907.6
17.5°	4456.4	4456.4	4495.6	4500.3	4478.4	4447.0	4410.9	4354.5	4312.2	4252.6	4006.4
20°	4596.0	4591.3	4641.5	4650.9	4597.5	4548.9	4495.6	4426.6	4393.7	4356.1	4103.6
22.5°	4835.9	4813.9	4843.7	4834.3	4729.3	4654.0	4588.1	4503.5	4486.2	4469.0	4211.8
25°	5147.9	5135.4	5155.8	5063.3	4878.2	4776.3	4697.9	4602.2	4602.2	4619.5	4334.1
27.5°	5601.1	5554.1	5485.1	5322.0	5044.4	4914.3	4829.6	4727.7	4754.4	4818.6	4495.6
30°	6065.2	6013.5	5855.1	5604.2	5246.7	5110.3	5011.5	4904.9	4967.6	5085.2	4712.0
32.5°	6523.1	6465.1	6240.9	5924.1	5536.8	5400.4	5304.7	5187.1	5292.2	5489.8	5028.8
35°	6966.9	6915.1	6656.4	6283.2	5922.6	5809.7	5721.8	5619.9	5754.8	6030.7	5475.7
37.5°	7465.5	7409.1	7093.9	6689.3	6391.4	6309.9	6245.6	6143.6	6378.9	6783.4	6098.2
40°	8078.6	7983.0	7558.0	7155.0	6934.0	6894.7	6850.8	6836.7	7202.1	7761.9	6927.7
42.5°	8781.1	8624.3	8044.1	7645.8	7529.8	7558.0	7547.1	7609.8	8232.3	8978.7	7937.5
45°	9483.6	9281.3	8585.1	8169.6	8185.3	8284.0	8345.2	8596.1	9522.8	10374.3	9024.2
47.5°	10079.5	9880.3	9104.1	8735.6	8923.8	9118.3	9284.5	9759.6	10849.4	11747.9	9869.4
50°	10589.1	10400.9	9654.5	9358.2	9781.5	10095.2	10364.9	11068.9	12276.3	12793.8	10462.1
52.5°	11006.2	10880.8	10225.3	10071.6	10761.6	11221.0	11616.2	12459.8	13540.2	13643.7	10923.1
55°	11412.3	11322.9	10838.4	10920.0	11912.5	12538.2	13038.4	13935.3	14628.4	14352.4	11365.3
57.5°	11879.6	11798.1	11537.8	11995.6	13425.7	14212.9	14758.6	15243.1	15586.5	15076.9	11782.4
60°	12356.3	12309.3	12315.5	13190.5	15163.1	15918.9	16220.0	16345.4	16527.3	15759.0	11805.9
62.5°	12811.0	12900.4	13204.6	14520.2	16826.8	17407.0	17559.1	17683.0	17469.7	15867.2	10907.4
65°	13580.9	13726.8	14452.8	16300.0	18656.7	19277.7	19434.5	19009.6	17618.7	14468.5	8872.1
67.5°	13957.3	14223.9	15519.1	17959.0	20431.8	21121.7	21063.7	19095.8	15810.7	11032.9	5693.6
69°	13878.9	14162.7	15765.3	18467.0	21021.4	21647.0	21278.5	18040.5	13469.6	7992.4	3495.2
70°	13568.4	13855.4	15638.2	18448.2	21096.6	21592.2	20880.3	16737.4	11388.8	5844.2	2185.9
72.5°	11330.8	11578.5	13883.6	16674.7	19434.5	19031.5	17468.2	11595.8	5549.4	1591.6	492.4
75°	6974.7	7112.7	9961.9	12561.7	14678.6	13643.7	11638.1	5768.9	1654.3	450.0	272.8
77.5°	3684.9	3747.7	5453.7	7404.4	9304.9	7699.2	5964.9	2250.2	762.1	282.3	197.6
80°	2178.0	2225.1	2937.0	3385.4	4026.8	3363.5	2385.0	1381.5	545.7	177.2	175.6
82.5°	1246.6	1276.4	2129.4	1881.7	1586.9	1354.8	1187.0	1309.3	327.7	119.2	181.9
85°	457.9	464.1	1198.0	1431.6	944.0	561.4	589.6	1085.1	87.8	75.3	142.7
87.5°	213.3	208.6	616.2	876.5	552.0	355.9	459.4	238.3	34.5	48.6	39.2
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°	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8
2.5°	3888.8	3830.8	3725.7	3617.5	3507.7	3423.1	3340.0	3274.1	3252.2	3211.4	3214.5
5°	3769.6	3663.0	3443.5	3220.8	2988.7	2797.4	2617.1	2471.3	2400.7	2328.6	2328.6
7.5°	3666.1	3510.9	3167.5	2805.3	2430.5	2115.3	1831.5	1618.2	1500.6	1406.5	1405.0
10°	3626.9	3416.8	2937.0	2417.9	1895.8	1466.1	1129.0	912.6	801.3	729.1	726.0
12.5°	3644.2	3383.9	2759.8	2060.4	1405.0	942.4	653.9	514.3	467.3	445.3	445.3
15°	3694.3	3374.5	2582.6	1710.8	992.6	589.6	434.4	396.7	393.6	393.6	393.6
17.5°	3755.5	3377.6	2400.7	1370.5	675.8	421.8	374.8	370.1	373.2	373.2	373.2
20°	3818.2	3379.2	2204.7	1055.3	476.7	366.9	352.8	351.2	354.4	354.4	355.9
22.5°	3895.1	3387.0	2008.7	788.7	393.6	346.5	335.6	335.6	337.1	337.1	335.6
25°	3982.9	3402.7	1804.8	584.9	359.1	332.4	323.0	321.5	323.0	321.5	319.9
27.5°	4092.6	3424.6	1577.5	457.9	343.4	318.3	310.5	310.5	308.9	307.3	305.8
30°	4230.6	3449.7	1321.9	388.9	327.7	305.8	297.9	296.4	294.8	291.7	291.7
32.5°	4440.7	3504.6	1069.4	352.8	310.5	288.5	282.3	282.3	279.1	276.0	274.4
35°	4763.8	3612.8	843.6	330.9	291.7	269.7	261.9	261.9	258.7	257.2	255.6
37.5°	5210.7	3777.5	655.4	310.5	272.8	249.3	241.5	239.9	236.8	233.6	232.1
40°	5804.9	3981.3	515.9	291.7	254.0	228.9	222.7	219.5	213.3	208.6	208.6
42.5°	6551.3	4213.4	418.7	271.3	232.1	210.1	205.4	200.7	189.7	185.0	183.5
45°	7332.2	4421.9	354.4	247.8	210.1	191.3	188.2	180.3	166.2	161.5	161.5
47.5°	7895.2	4470.5	312.0	225.8	189.7	170.9	169.4	155.2	142.7	139.6	138.0
50°	8246.4	4374.9	277.5	203.8	170.9	152.1	147.4	130.1	122.3	119.2	117.6
52.5°	8483.2	4204.0	249.3	185.0	153.7	134.9	123.9	111.3	105.1	101.9	101.9
55°	8672.9	3962.5	221.1	167.8	139.6	120.7	105.1	95.7	89.4	86.2	86.2
57.5°	8726.2	3634.8	192.9	153.7	125.4	106.6	89.4	83.1	75.3	73.7	73.7
60°	8338.9	3043.6	170.9	136.4	112.9	92.5	78.4	70.6	62.7	61.2	59.6
62.5°	7318.1	2355.2	150.5	120.7	98.8	80.0	67.4	58.0	51.7	51.7	51.7
65°	5582.3	1579.0	131.7	105.1	86.2	67.4	58.0	47.0	43.9	43.9	45.5
67.5°	3341.5	859.3	112.9	89.4	73.7	56.5	48.6	40.8	39.2	40.8	40.8
69°	1958.5	504.9	101.9	80.0	64.3	50.2	42.3	36.1	39.2	40.8	40.8
70°	1209.0	340.3	94.1	72.1	58.0	45.5	39.2	34.5	37.6	39.2	39.2
72.5°	337.1	175.6	75.3	56.5	47.0	37.6	31.4	31.4	36.1	37.6	37.6
75°	219.5	130.1	58.0	42.3	36.1	29.8	26.7	29.8	34.5	36.1	36.1
77.5°	181.9	106.6	47.0	34.5	29.8	28.2	25.1	26.7	31.4	32.9	32.9
80°	166.2	75.3	37.6	31.4	26.7	25.1	23.5	22.0	28.2	29.8	29.8
82.5°	158.4	59.6	32.9	28.2	25.1	22.0	20.4	22.0	25.1	26.7	28.2
85°	98.8	39.2	29.8	26.7	22.0	20.4	20.4	20.4	23.5	25.1	25.1
87.5°	36.1	31.4	26.7	22.0	18.8	18.8	18.8	18.8	20.4	23.5	23.5
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)