

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: P457928

Luminaire Tested: **GALN-SA9B-740-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52788 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

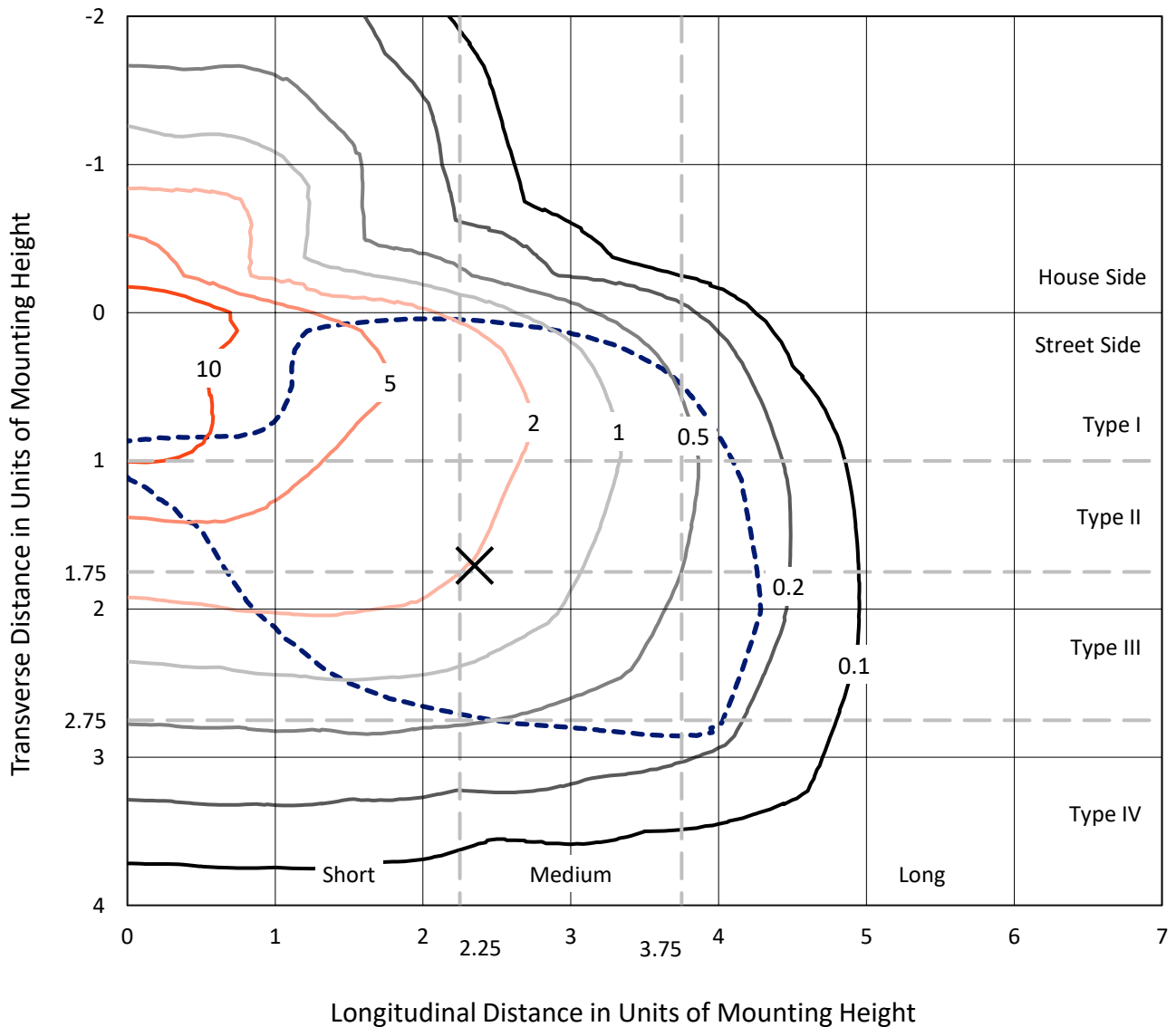
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

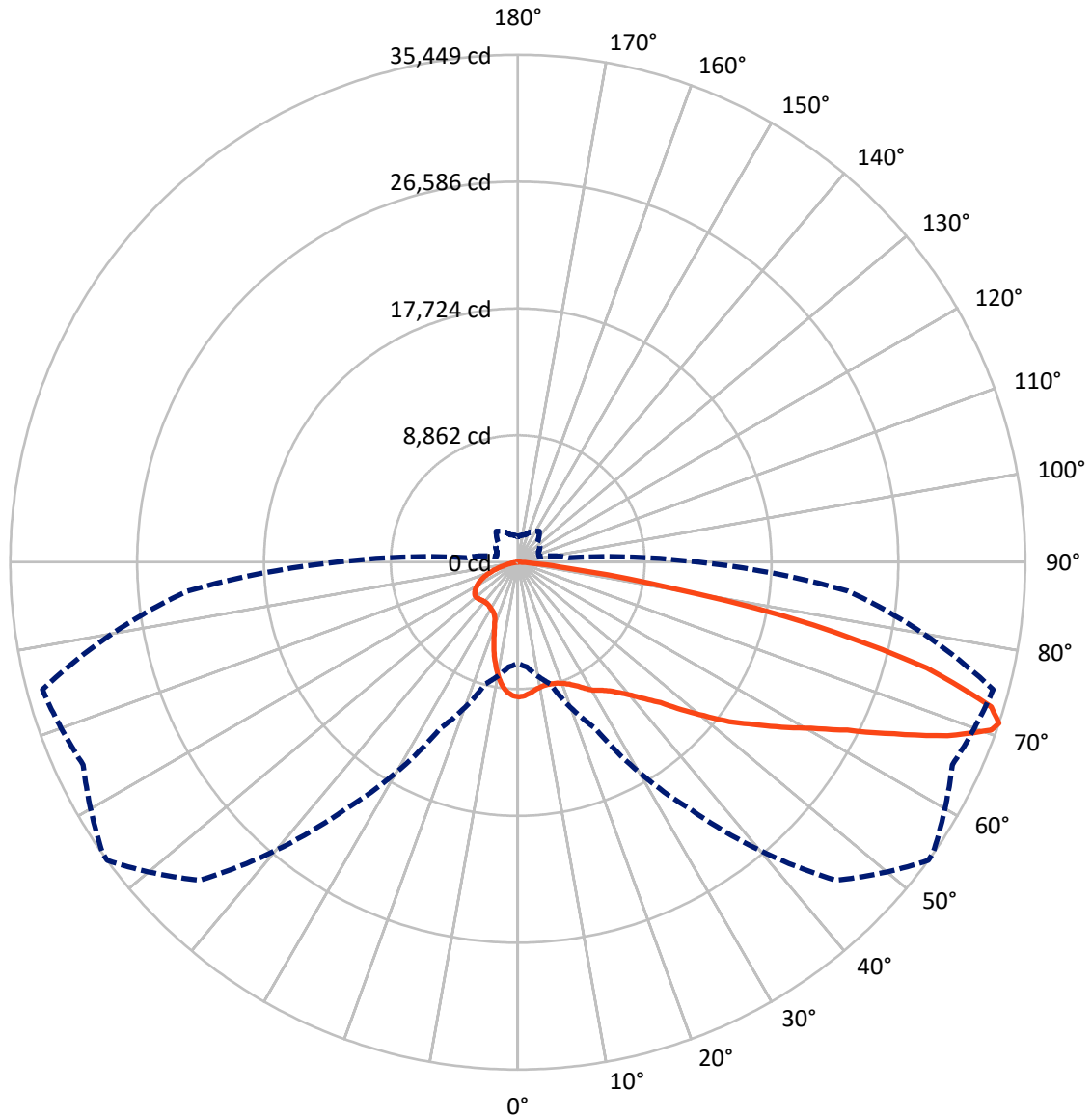
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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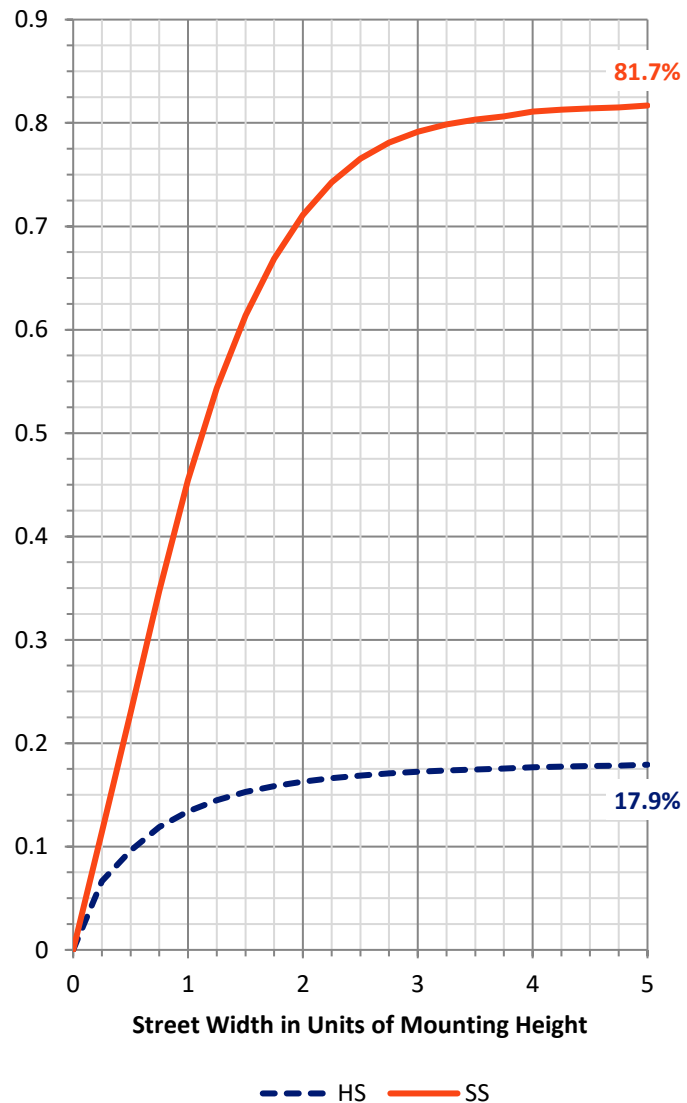
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9530.5	0.0	9530.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	43257.5	0.0	43257.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	52788.0	0.0	52788.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.3	1.6
10°-20°	2216.2	4.2
20°-30°	3690.0	7.0
30°-40°	5456.3	10.3
40°-50°	7685.4	14.6
50°-60°	10291.1	19.5
60°-70°	12971.2	24.6
70°-80°	8859.3	16.8
80°-90°	779.1	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°	52788.0	100.0
0°-180°	52788.0	100.0



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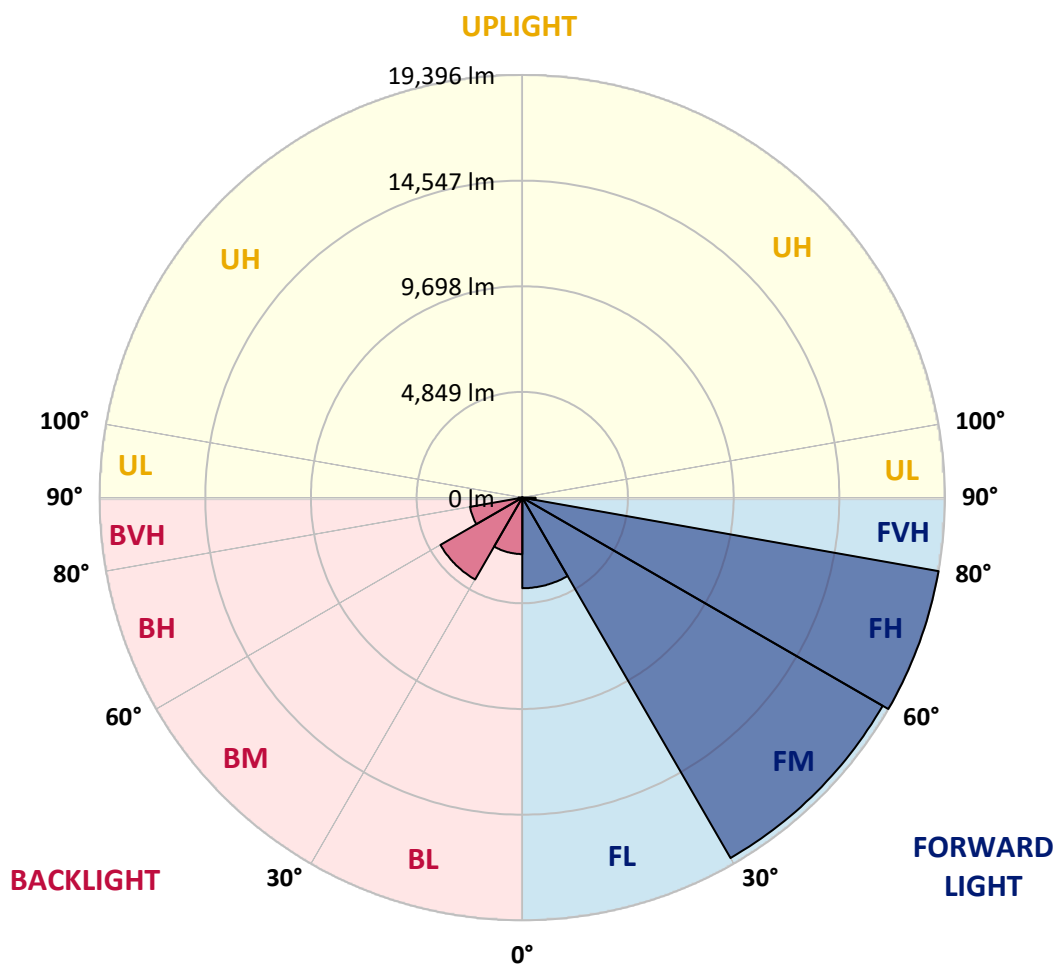
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4155.3	7.9			
FM	(30°-60°)	19096.8	36.2			
FH	(60°-80°)	19396.4	36.7			G5
FVH	(80°-90°)	609.0	1.2			G4/750
BL	(0°-30°)	2590.2	4.9	B4/5000		
BM	(30°-60°)	4336.1	8.2	B3/5000		
BH	(60°-80°)	2434.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	170.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2
2.5°	9098.8	9141.6	9153.0	9181.5	9241.4	9289.8	9338.3	9332.6	9401.1	9429.6	9455.2
5°	8693.9	8705.3	8748.1	8805.1	8910.6	9044.6	9175.8	9178.6	9346.9	9480.9	9546.5
7.5°	8397.4	8434.4	8462.9	8522.8	8634.0	8779.4	8987.6	9004.7	9304.1	9569.3	9709.0
10°	8203.5	8246.2	8277.6	8351.7	8462.9	8625.5	8850.7	8882.1	9272.7	9709.0	9954.2
12.5°	8026.7	8069.5	8098.0	8194.9	8340.3	8539.9	8793.7	8830.8	9284.1	9871.5	10222.3
15°	8135.0	8169.2	8157.8	8186.4	8283.3	8511.4	8816.5	8853.6	9326.9	10028.4	10487.4
17.5°	8616.9	8645.4	8551.3	8443.0	8397.4	8565.6	8887.8	8927.7	9412.5	10190.9	10758.3
20°	9326.9	9403.9	9198.6	8956.2	8736.7	8759.5	9036.1	9078.8	9532.2	10353.4	11034.9
22.5°	10250.8	10307.8	10056.9	9657.7	9252.8	9044.6	9258.5	9284.1	9711.9	10564.4	11337.2
25°	11337.2	11371.4	11023.5	10510.2	9925.7	9532.2	9563.6	9609.2	10008.4	10803.9	11605.2
27.5°	12392.2	12500.5	12098.5	11471.2	10701.3	10045.5	9982.7	10011.3	10330.6	10938.0	11790.5
30°	13643.9	13635.4	13210.5	12483.4	11496.8	10604.3	10379.1	10373.4	10504.5	11003.5	11924.5
32.5°	14641.9	14758.8	14342.5	13549.8	12406.4	11183.2	10652.8	10641.4	10638.6	11117.6	12124.1
35°	15776.8	15793.9	15411.8	14613.4	13390.2	11910.3	11034.9	10977.9	10912.3	11362.8	12395.0
37.5°	16791.9	16871.7	16521.0	15625.6	14356.8	12665.9	11559.6	11522.5	11322.9	11787.7	12828.4
40°	17584.6	17644.4	17433.4	16580.9	15309.1	13481.4	12226.8	12158.4	11916.0	12483.4	13407.3
42.5°	17844.0	17966.6	18049.3	17630.2	16404.1	14448.0	13048.0	12962.4	12777.1	13538.4	14074.5
45°	17864.0	18057.9	18494.2	18514.1	17504.7	15605.7	14006.1	13946.2	13931.9	14890.0	15012.6
47.5°	17712.9	17909.6	18642.4	19038.8	18485.6	16774.8	15389.0	15294.9	15303.4	16560.9	16064.8
50°	17347.9	17581.7	18471.3	19375.2	19252.6	17989.5	16848.9	16817.5	16994.3	18468.5	17156.8
52.5°	16660.7	16943.0	18294.6	19586.2	19822.9	19035.9	18508.4	18420.0	18867.7	20538.6	18351.6
55°	14758.8	15183.7	17647.3	19703.1	20364.7	20036.8	20002.5	20162.2	20755.3	22796.9	19666.1
57.5°	13766.5	14085.9	16241.6	19723.1	21049.0	21200.1	21747.6	21787.5	22825.4	25194.9	21151.7
60°	13224.8	13507.1	15471.7	19591.9	22004.2	22640.1	23532.6	23675.1	24847.1	27792.6	22691.4
62.5°	12751.4	12993.8	15009.7	19138.6	23082.1	24775.8	25845.1	25913.5	27142.4	30661.1	24211.2
65°	11636.5	11913.1	14080.2	18685.2	24011.6	27444.7	28913.2	28833.3	29586.1	33136.1	25163.6
67.5°	10133.9	10484.6	12343.7	17119.8	24470.7	30361.7	32369.0	32269.2	31998.4	34758.5	25437.3
70°	8214.9	8403.1	10122.5	14413.8	22637.2	31892.9	35097.8	34992.3	33492.5	34972.4	24142.8
71°	7068.6	7362.3	8813.7	12802.8	21111.7	31425.2	35448.6	35420.0	33495.3	34382.1	23167.6
72.5°	5517.5	5697.1	6980.2	9920.0	17943.8	28767.7	34581.7	34690.1	32768.2	32742.6	21157.4
75°	3490.1	3569.9	4379.7	5839.7	9845.9	20373.2	29520.5	29814.2	29095.6	26800.3	15734.0
77.5°	2027.3	2130.0	2623.3	3441.6	4254.3	11057.7	21123.1	21442.5	20216.4	14756.0	6441.3
80°	1180.5	1294.5	1727.9	1998.8	1953.2	4103.2	10755.5	11300.1	8753.8	3726.8	1807.8
82.5°	655.8	732.8	1214.7	1217.5	1040.8	1340.2	3384.6	3541.4	2497.8	1502.7	738.5
85°	476.2	538.9	784.1	710.0	499.0	576.0	1177.6	1234.7	1009.4	633.0	239.5
87.5°	168.2	239.5	430.6	342.2	136.9	119.8	339.3	276.6	256.6	176.8	54.2
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°	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2	9418.2
2.5°	9469.5	9475.2	9446.7	9395.3	9344.0	9278.4	9204.3	9147.3	9121.6	9118.8	9115.9
5°	9572.1	9586.4	9478.0	9318.4	9141.6	8924.9	8739.5	8528.5	8474.3	8388.8	8414.5
7.5°	9737.5	9729.0	9515.1	9175.8	8762.3	8303.3	7915.5	7690.2	7456.4	7390.8	7393.7
10°	9974.2	9920.0	9515.1	8884.9	8194.9	7513.4	6971.7	6629.5	6444.2	6290.2	6233.2
12.5°	10225.1	10088.2	9423.9	8477.2	7465.0	6629.5	6047.8	5585.9	5466.1	5340.7	5343.5
15°	10464.6	10236.5	9244.2	7904.1	6678.0	5685.7	5121.1	4844.5	4807.5	4821.7	4818.9
17.5°	10681.3	10342.0	8970.5	7265.4	5759.8	4875.9	4576.5	4596.5	4696.2	4767.5	4776.1
20°	10900.9	10404.7	8562.7	6409.9	4893.0	4385.4	4396.9	4553.7	4704.8	4801.8	4816.0
22.5°	11109.0	10433.3	8083.7	5583.0	4265.7	4177.3	4345.5	4513.8	4662.0	4756.1	4770.4
25°	11245.9	10367.7	7405.1	4719.1	3957.7	4103.2	4279.9	4422.5	4548.0	4644.9	4667.7
27.5°	11283.0	10156.7	6563.9	4020.5	3815.2	4031.9	4194.4	4299.9	4396.9	4488.1	4505.2
30°	11263.0	9845.9	5640.1	3609.9	3732.5	3949.2	4074.6	4151.6	4268.5	4339.8	4354.1
32.5°	11231.6	9483.7	4676.3	3390.3	3664.0	3872.2	3946.3	4014.8	4011.9	3983.4	4003.4
35°	11243.1	9050.3	3895.0	3259.1	3604.2	3815.2	3877.9	3792.4	3547.1	3535.7	3524.3
37.5°	11302.9	8622.6	3327.6	3167.9	3572.8	3806.6	3840.8	3447.3	3230.6	3130.8	3105.2
40°	11456.9	8123.6	2954.0	3099.5	3569.9	3872.2	3672.6	3273.4	2857.1	2663.2	2648.9
42.5°	11662.2	7633.2	2725.9	3056.7	3604.2	3972.0	3604.2	3028.2	2574.8	2460.8	2443.6
45°	11967.3	7071.5	2600.5	3036.7	3655.5	4009.1	3581.4	2848.5	2460.8	2369.5	2369.5
47.5°	12312.3	6535.4	2532.0	3022.5	3721.1	3983.4	3378.9	2791.5	2406.6	2418.0	2472.2
50°	12654.5	6070.6	2480.7	2991.1	3778.1	3969.1	3296.2	2788.7	2420.8	2566.3	2663.2
52.5°	13050.8	5742.7	2418.0	2939.8	3778.1	3877.9	3270.6	2845.7	2460.8	2503.5	2546.3
55°	13529.9	5640.1	2338.1	2828.6	3709.7	3649.8	3256.3	2928.4	2489.3	2389.5	2406.6
57.5°	14162.9	5805.4	2261.2	2688.9	3552.8	3413.1	3250.6	2951.2	2423.7	2341.0	2323.9
60°	14898.5	6133.4	2238.3	2546.3	3339.0	3210.7	3216.4	2885.6	2332.4	2246.9	2261.2
62.5°	15414.6	6330.1	2224.1	2437.9	3105.2	2988.3	3133.7	2805.8	2292.5	2218.4	2232.6
65°	15414.6	6090.6	2092.9	2272.6	2802.9	2720.2	3033.9	2706.0	2241.2	2155.7	2141.4
67.5°	14830.1	5392.0	1893.3	2024.5	2469.3	2415.1	2894.2	2586.2	2164.2	2098.6	2064.4
70°	13307.5	4088.9	1642.4	1733.6	2047.3	2095.8	2714.5	2423.7	2035.9	1956.1	1904.7
71°	12637.4	3561.4	1536.9	1585.4	1884.8	1956.1	2629.0	2355.3	1978.9	1864.8	1773.6
72.5°	11345.7	2999.7	1377.2	1397.2	1611.0	1739.4	2449.3	2224.1	1870.5	1708.0	1605.3
75°	8619.8	2189.9	1109.2	1097.8	1191.9	1380.1	2073.0	1981.7	1639.6	1420.0	1360.1
77.5°	3723.9	1191.9	829.8	838.3	809.8	1046.5	1631.0	1702.3	1405.7	1154.8	1100.6
80°	1129.2	687.2	567.4	578.8	541.8	701.4	1149.1	1334.5	1129.2	898.2	824.1
82.5°	578.8	410.6	387.8	382.1	345.0	396.3	695.7	912.4	806.9	561.7	496.1
85°	250.9	219.6	191.0	185.3	162.5	142.6	248.1	456.2	427.7	313.7	299.4
87.5°	62.7	57.0	37.1	34.2	20.0	2.9	0.0	0.0	0.0	0.0	0.0
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)