

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: P458133

Luminaire Tested: **GALN-SA9C-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57916 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

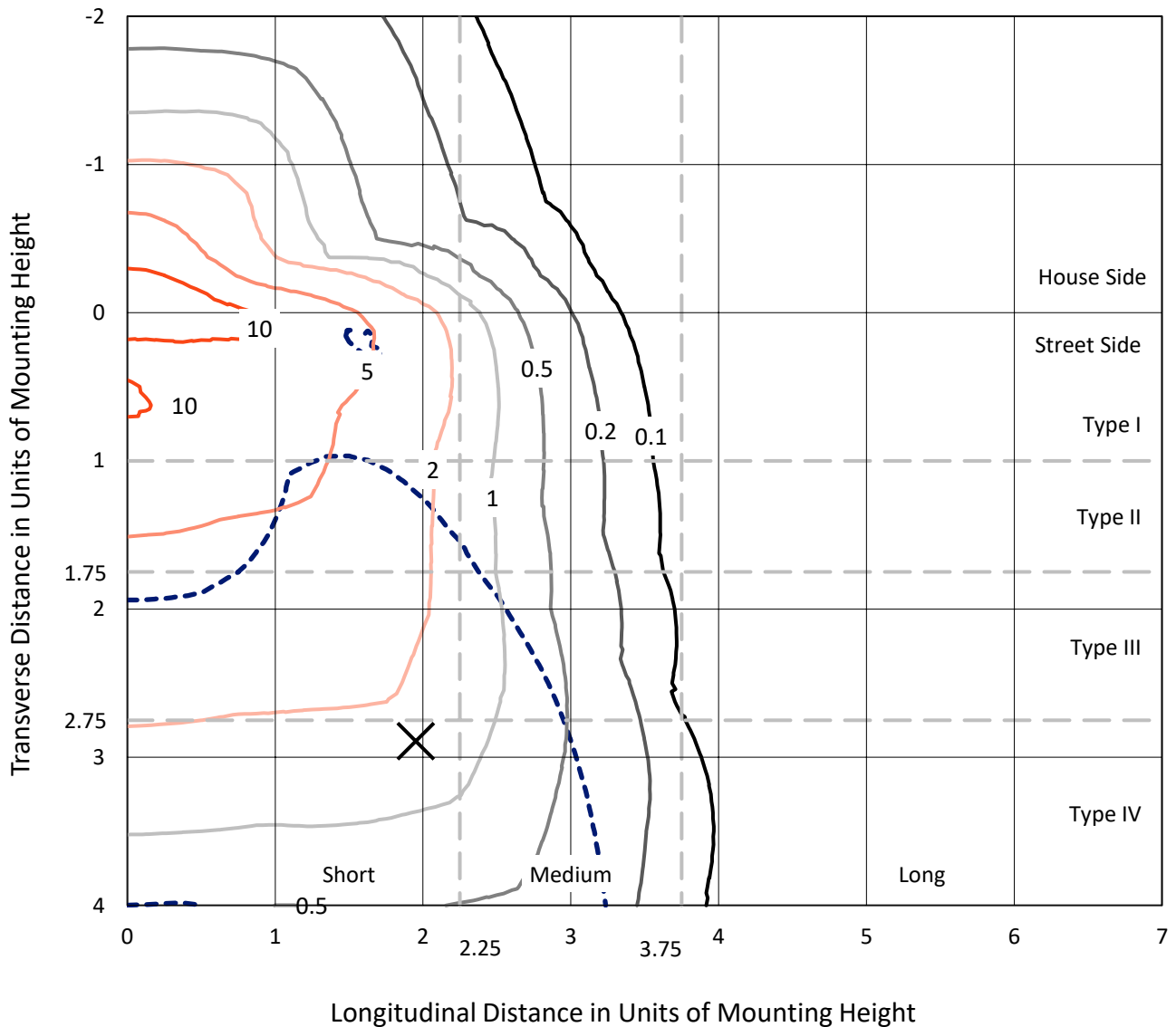
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

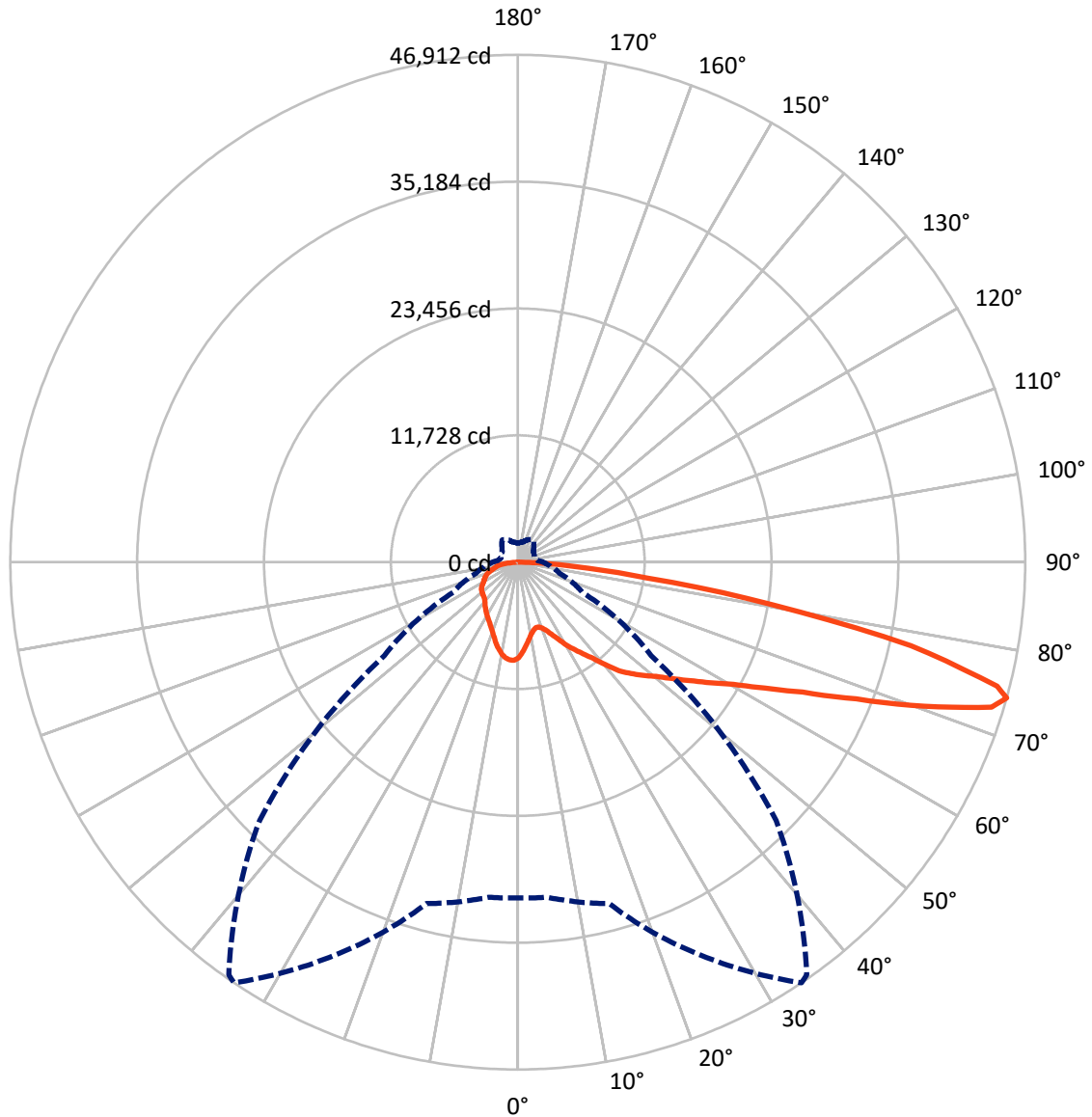
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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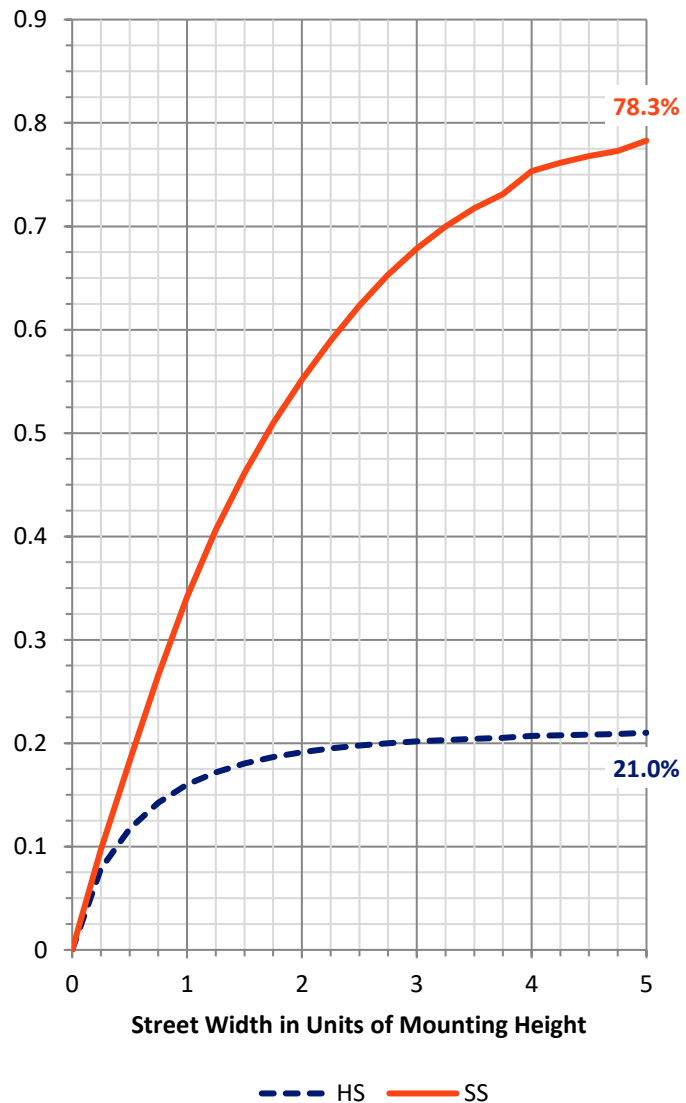
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12324.9	0.0	12324.9
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	45591.1	0.0	45591.1
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	57916.0	0.0	57916.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	804.2	1.4
10°-20°	2201.5	3.8
20°-30°	3629.6	6.3
30°-40°	5436.8	9.4
40°-50°	7903.6	13.6
50°-60°	11039.5	19.1
60°-70°	13820.8	23.9
70°-80°	11428.7	19.7
80°-90°	1651.4	2.9
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°	57916.0	100.0
0°-180°	57916.0	100.0



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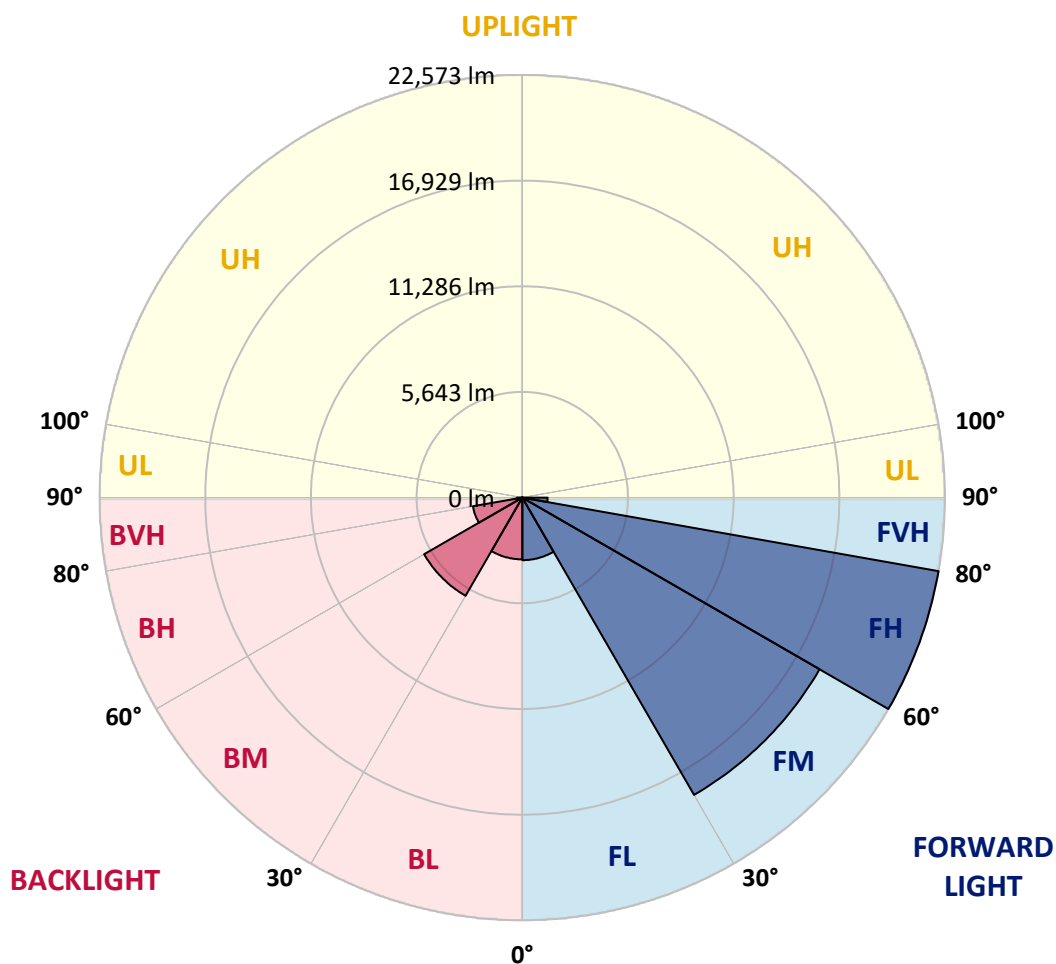
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3338.6	5.8			
FM	(30°-60°)	18327.0	31.6			
FH	(60°-80°)	22572.6	39.0			G5
FVH	(80°-90°)	1352.9	2.3			G5
BL	(0°-30°)	3296.7	5.7	B4/5000		
BM	(30°-60°)	6052.8	10.5	B4/8500		
BH	(60°-80°)	2676.9	4.6	B4/5000		G4/5000
BVH	(80°-90°)	298.5	0.5			G3/500
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6
2.5°	8172.1	8213.8	8236.2	8316.4	8335.7	8361.4	8428.7	8518.6	8634.1	8736.7	8826.6
5°	7491.8	7556.0	7594.5	7665.1	7803.1	7815.9	7995.6	8200.9	8435.1	8653.3	8833.0
7.5°	6846.9	6917.5	6949.6	7078.0	7260.8	7289.7	7552.8	7876.9	8268.3	8598.8	8874.7
10°	6362.5	6397.8	6468.3	6564.6	6782.8	6802.0	7145.3	7578.5	8085.4	8573.1	8945.3
12.5°	6099.4	6118.6	6134.7	6237.3	6452.3	6481.2	6840.5	7331.4	7941.0	8592.4	9060.8
15°	6137.9	6144.3	6073.7	6092.9	6266.2	6307.9	6664.1	7167.8	7851.2	8640.5	9234.1
17.5°	6461.9	6439.5	6266.2	6176.4	6298.3	6317.5	6628.8	7103.6	7809.5	8730.3	9413.7
20°	6972.1	6940.0	6641.6	6442.7	6513.3	6529.3	6744.3	7151.7	7851.2	8877.9	9692.9
22.5°	7607.4	7594.5	7142.1	6901.5	6898.3	6898.3	7010.6	7325.0	7976.3	9080.1	9984.9
25°	8496.1	8428.7	7838.4	7527.1	7440.5	7434.1	7421.3	7610.6	8136.8	9295.0	10331.4
27.5°	9407.3	9291.8	8765.6	8287.6	8101.5	8079.0	7995.6	8014.8	8342.1	9538.9	10726.0
30°	10225.5	10151.7	9657.6	9128.2	8906.8	8855.5	8624.4	8518.6	8685.4	9978.4	11354.9
32.5°	10851.1	10806.2	10421.2	9939.9	9612.7	9603.0	9266.1	9179.5	9221.2	10511.0	12073.6
35°	11358.1	11374.1	11178.4	10761.3	10385.9	10331.4	10106.8	9997.7	9875.8	11281.1	12978.4
37.5°	12051.1	12086.4	12073.6	11714.2	11255.4	11268.3	11216.9	11037.2	10713.2	12141.0	13982.6
40°	12814.8	12840.4	12837.2	12699.2	12458.6	12471.4	12452.2	12246.8	11762.4	13235.1	15099.2
42.5°	13870.3	13748.4	13430.8	13568.7	13709.9	13770.9	13902.4	13706.7	13042.6	14403.0	16148.4
45°	15051.1	14820.1	14101.4	14165.5	14688.5	14804.0	15529.1	15259.6	14431.8	15744.1	17383.7
47.5°	15795.4	15567.6	14961.2	14948.4	15641.4	15753.7	17037.1	16937.7	15696.0	17191.1	18891.7
50°	16459.6	16427.5	15744.1	15907.7	16584.7	16751.6	18679.9	18586.8	16956.9	18898.1	20534.4
52.5°	17444.6	17184.7	16639.3	16976.2	17871.3	18089.5	20309.8	20037.1	18115.2	20406.1	22129.0
55°	17887.4	17826.4	17794.3	18086.3	19315.2	19472.4	21894.8	21269.2	19103.4	21683.0	23341.8
57.5°	19071.3	18959.0	19276.7	19475.6	21015.7	21256.3	23550.4	22555.8	19969.7	22696.9	23932.2
60°	20605.0	20544.0	20836.0	21195.4	22915.1	23280.9	25437.0	23653.1	20666.0	23207.1	23608.1
62.5°	22895.9	22889.4	22834.9	23604.9	25607.0	25943.9	27602.7	24721.5	20775.0	22825.3	21933.3
65°	26181.4	26065.9	25591.0	26431.6	28956.7	29351.4	29858.3	25318.3	20117.3	20864.9	18468.1
67.5°	29617.7	29611.3	29226.2	30317.1	33766.3	34173.7	32678.6	25186.7	18291.7	16902.4	13116.4
70°	32466.8	32328.9	32819.8	35726.7	39910.5	40382.2	35145.9	23637.0	14569.8	11162.4	7793.4
72.5°	33150.2	33156.6	34176.9	39897.7	45811.0	45884.8	36034.7	19158.0	9750.6	6157.1	3898.3
74°	31045.5	31100.0	32681.8	40106.3	46911.5	46577.8	33763.1	15057.5	6593.5	4020.3	2810.6
75°	28337.5	27994.2	30281.8	38717.0	45769.3	45409.9	31103.2	12083.2	5030.9	3211.7	2460.9
77.5°	15150.5	15500.3	19029.6	28892.5	37183.3	36769.4	21089.5	5794.6	2717.6	2236.3	1771.1
80°	5393.5	5948.6	8361.4	15118.5	23839.2	23967.5	10065.1	2656.6	1912.3	1649.2	1251.3
82.5°	2201.0	2262.0	3590.3	6709.0	12105.7	12221.2	4110.1	1578.6	1366.8	1135.8	747.6
85°	859.9	885.5	1588.2	3016.0	5165.7	5502.6	1421.4	834.2	840.6	651.3	381.8
87.5°	288.8	327.3	651.3	1004.3	1755.0	1719.8	413.9	247.1	301.6	282.3	118.7
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°	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6	8842.6
2.5°	8871.5	8932.5	8974.2	9019.1	9060.8	9073.6	9064.0	9092.9	9096.1	9099.3	9102.5
5°	8922.8	9006.3	9086.5	9131.4	9150.6	9134.6	9080.1	9051.2	9025.5	9006.3	9012.7
7.5°	8993.4	9112.1	9185.9	9205.2	9153.9	9080.1	8945.3	8839.4	8772.0	8727.1	8723.9
10°	9102.5	9218.0	9279.0	9224.4	9083.3	8903.6	8691.8	8492.9	8342.1	8297.2	8294.0
12.5°	9240.5	9372.0	9368.8	9208.4	8961.3	8640.5	8297.2	8066.2	7860.8	7758.2	7799.9
15°	9420.2	9519.6	9426.6	9137.8	8746.4	8306.8	7883.3	7568.9	7337.8	7228.8	7235.2
17.5°	9628.7	9715.3	9468.3	9012.7	8444.8	7880.1	7389.2	7090.8	6907.9	6827.7	6821.3
20°	9888.6	9914.3	9468.3	8794.5	8056.5	7382.8	6914.3	6705.8	6603.1	6561.4	6574.2
22.5°	10167.7	10116.4	9416.9	8486.5	7546.4	6863.0	6548.5	6455.5	6404.2	6397.8	6404.2
25°	10482.2	10337.8	9311.1	8069.4	7013.8	6413.8	6230.9	6247.0	6256.6	6256.6	6279.0
27.5°	10867.2	10578.4	9134.6	7543.2	6391.3	5996.7	5945.4	6057.6	6109.0	6118.6	6134.7
30°	11374.1	10841.5	8842.6	6885.4	5861.9	5621.3	5711.1	5861.9	5919.7	5955.0	5948.6
32.5°	11977.3	11130.3	8448.0	6227.7	5435.2	5358.2	5467.3	5621.3	5685.5	5704.7	5679.0
35°	12686.4	11457.6	7928.2	5611.7	5063.0	5107.9	5236.3	5284.4	5342.2	5342.2	5355.0
37.5°	13450.0	11720.7	7292.9	5047.0	4774.2	4937.9	5030.9	4986.0	4960.3	4928.3	4944.3
40°	14226.5	11916.4	6468.3	4488.7	4485.5	4761.4	4787.1	4658.7	4556.1	4524.0	4507.9
42.5°	14903.5	12038.3	5724.0	4055.5	4212.8	4588.2	4607.4	4402.1	4238.4	4142.2	4110.1
45°	15702.4	12179.5	4995.6	3696.2	3959.3	4450.2	4498.3	4222.4	3981.7	3779.6	3728.3
47.5°	16796.5	12500.3	4421.3	3417.1	3776.4	4363.6	4430.9	4074.8	3757.2	3494.1	3452.3
50°	18031.8	12939.9	3975.3	3227.8	3635.2	4286.6	4370.0	3924.0	3548.6	3256.6	3224.5
52.5°	19164.4	13177.3	3590.3	3057.7	3497.3	4145.4	4289.8	3814.9	3343.3	3019.2	2990.3
55°	19783.6	12792.3	3211.7	2890.9	3308.0	3962.5	4177.5	3664.1	3144.3	2894.1	2852.4
57.5°	19867.0	11996.6	2868.4	2711.2	3109.0	3737.9	3968.9	3481.2	3016.0	2807.4	2772.1
60°	19222.1	10809.4	2602.1	2563.6	2906.9	3484.4	3734.7	3320.8	2884.4	2711.2	2675.9
62.5°	17617.9	9519.6	2416.0	2428.8	2701.6	3218.1	3561.4	3166.8	2759.3	2605.3	2573.2
65°	14858.6	7857.6	2236.3	2290.9	2518.7	3009.6	3404.2	3038.5	2634.2	2525.1	2496.2
67.5°	10321.7	5672.6	2088.7	2146.5	2345.4	2797.8	3221.3	2900.5	2493.0	2435.3	2390.3
70°	5714.3	3490.8	1915.5	1982.9	2165.7	2560.4	3016.0	2691.9	2287.7	2262.0	2197.8
72.5°	3003.2	2223.5	1719.8	1793.6	1921.9	2255.6	2701.6	2464.1	2085.5	1976.4	1893.0
74°	2345.4	1822.4	1588.2	1665.2	1751.8	2075.9	2515.5	2300.5	1941.1	1812.8	1748.6
75°	2043.8	1623.5	1475.9	1575.4	1652.4	1954.0	2371.1	2185.0	1860.9	1739.0	1681.3
77.5°	1443.8	1216.0	1206.4	1325.1	1366.8	1713.3	2136.9	1989.3	1658.8	1530.5	1475.9
80°	1013.9	911.2	956.1	1029.9	1087.7	1514.4	1982.9	1719.8	1360.4	1209.6	1190.4
82.5°	661.0	596.8	683.4	750.8	770.0	1116.6	1601.0	1305.9	991.4	805.3	747.6
85°	304.8	298.4	391.4	381.8	378.6	545.4	949.7	763.6	571.1	426.7	401.1
87.5°	77.0	73.8	96.3	80.2	96.3	83.4	86.6	22.5	3.2	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)