

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: P459351

Luminaire Tested: **GALN-SA8A-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459351  
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-SA8A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA 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: 34324 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

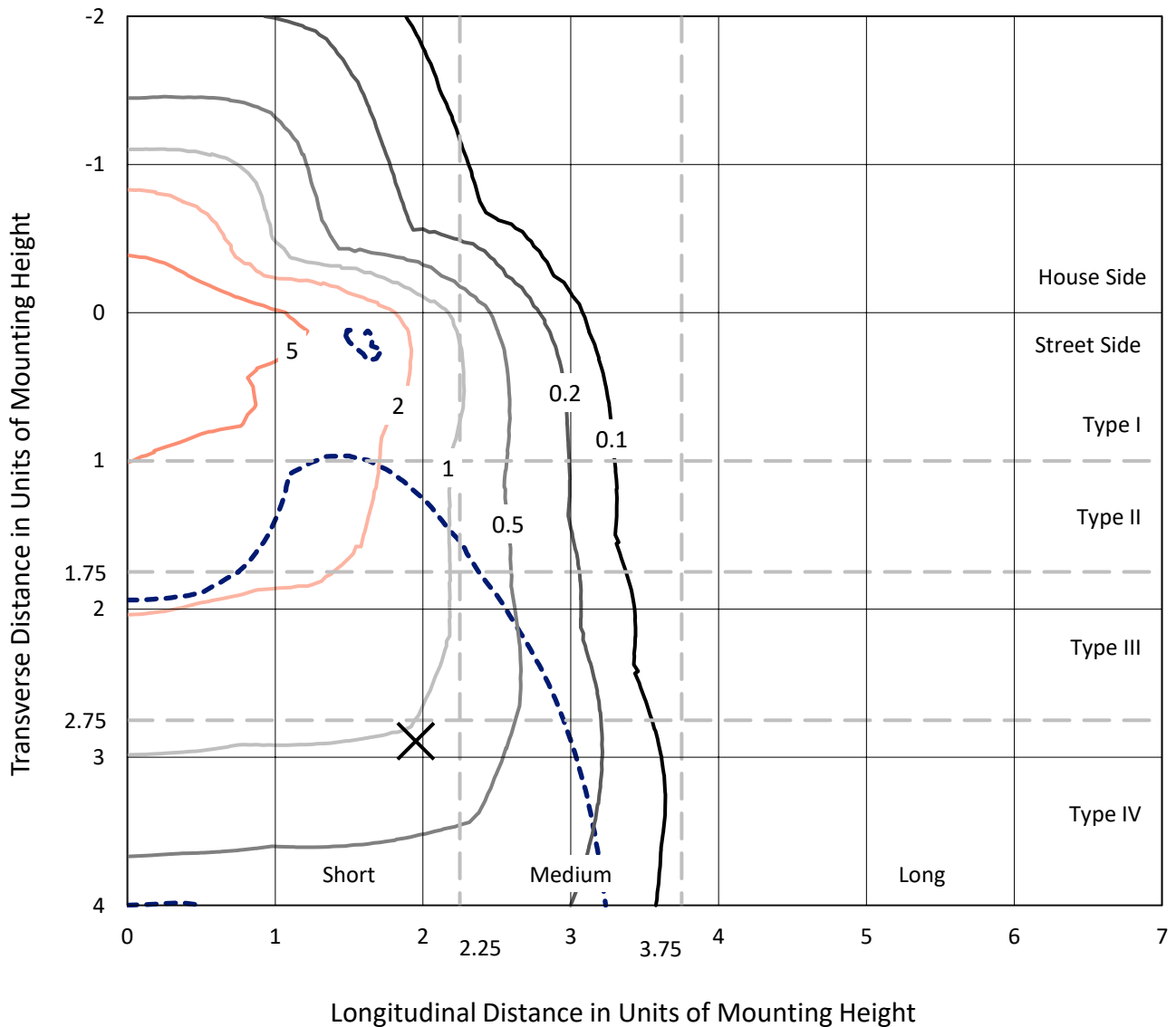
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

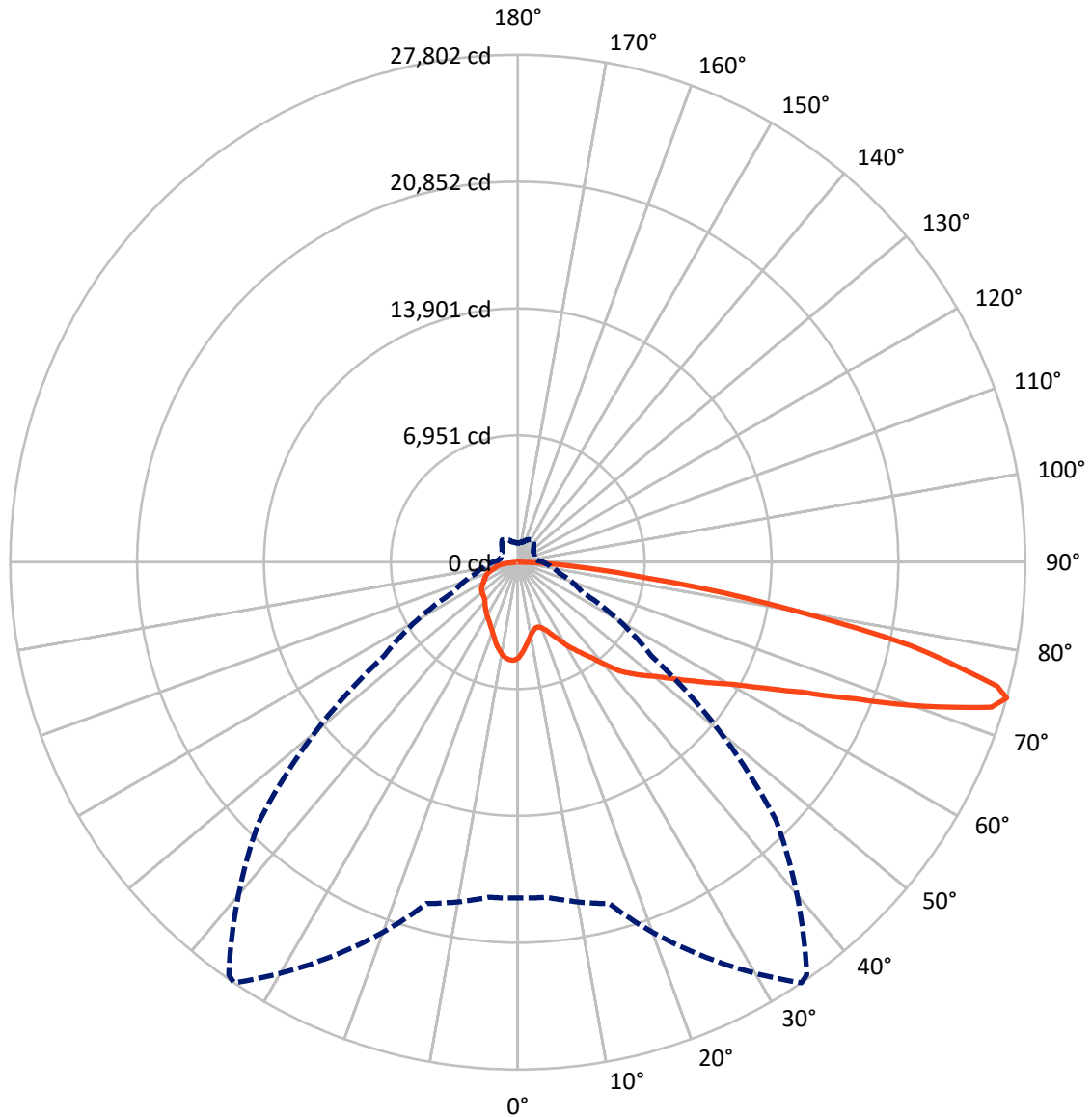
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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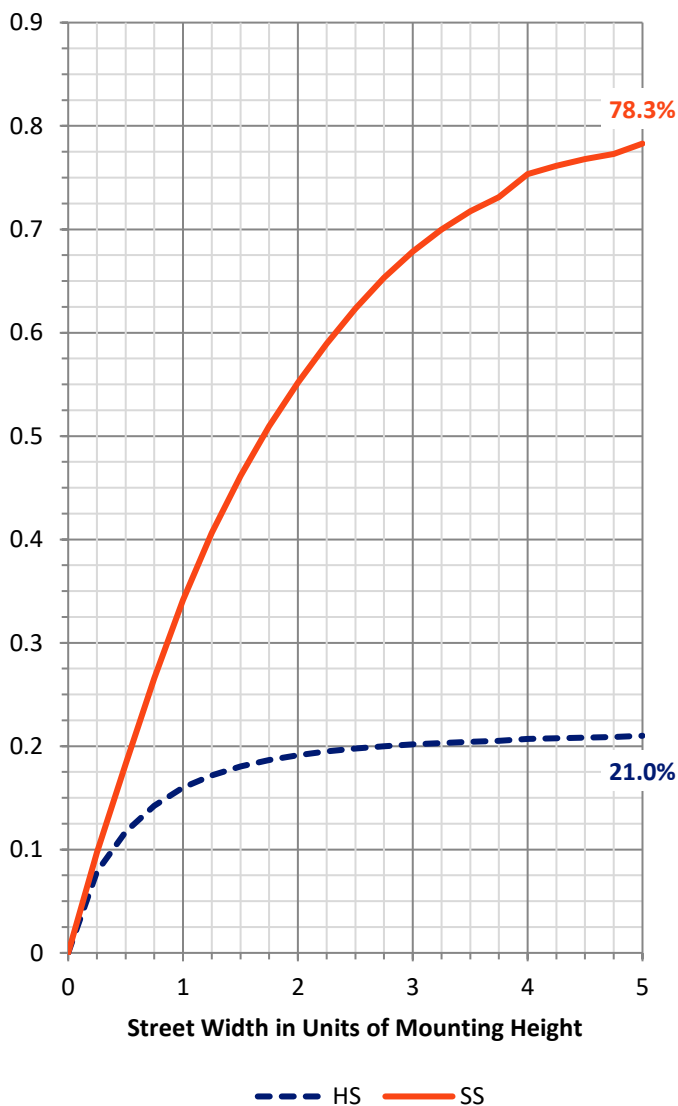
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7304.4	0.0	7304.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	27019.6	0.0	27019.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	34324.0	0.0	34324.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.6	1.4
10°-20°	1304.7	3.8
20°-30°	2151.1	6.3
30°-40°	3222.1	9.4
40°-50°	4684.1	13.6
50°-60°	6542.6	19.1
60°-70°	8190.9	23.9
70°-80°	6773.2	19.7
80°-90°	978.7	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°	34324.0	100.0
0°-180°	34324.0	100.0

**Coefficient of Utilization**



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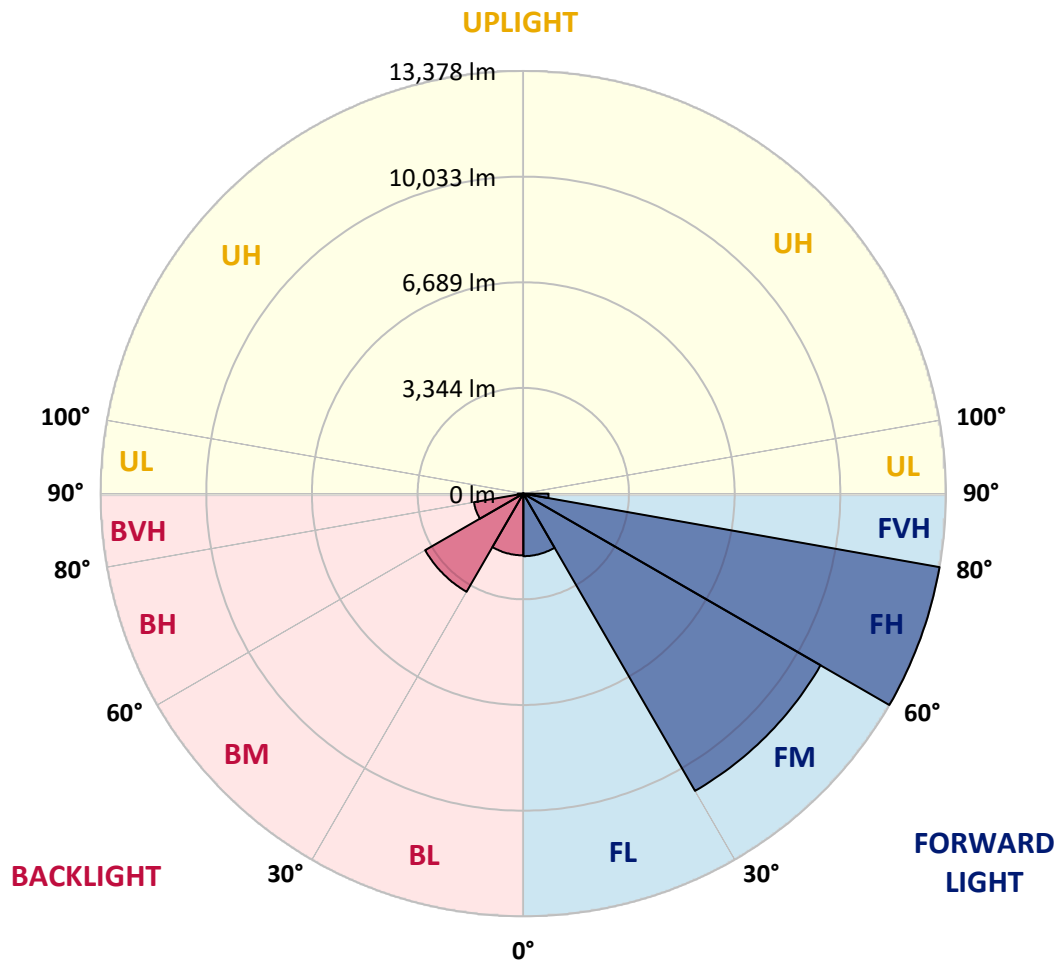
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1978.6	5.8			
FM	(30°-60°)	10861.5	31.6			
FH	(60°-80°)	13377.7	39.0			G5
FVH	(80°-90°)	801.8	2.3			G5
BL	(0°-30°)	1953.8	5.7	B3/2500		
BM	(30°-60°)	3587.2	10.5	B3/5000		
BH	(60°-80°)	1586.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	176.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6
2.5°	4843.2	4867.9	4881.2	4928.7	4940.2	4955.4	4995.3	5048.5	5117.0	5177.8	5231.1
5°	4440.1	4478.1	4500.9	4542.7	4624.5	4632.1	4738.6	4860.3	4999.1	5128.4	5234.9
7.5°	4057.8	4099.7	4118.7	4194.8	4303.1	4320.3	4476.2	4668.2	4900.2	5096.1	5259.6
10°	3770.7	3791.6	3833.5	3890.5	4019.8	4031.2	4234.7	4491.4	4791.8	5080.9	5301.4
12.5°	3614.8	3626.2	3635.7	3696.6	3824.0	3841.1	4054.0	4345.0	4706.3	5092.3	5369.9
15°	3637.6	3641.4	3599.6	3611.0	3713.7	3738.4	3949.5	4248.0	4653.0	5120.8	5472.6
17.5°	3829.7	3816.4	3713.7	3660.4	3732.7	3744.1	3928.5	4210.0	4628.3	5174.0	5579.1
20°	4132.0	4113.0	3936.2	3818.3	3860.1	3869.6	3997.0	4238.5	4653.0	5261.5	5744.5
22.5°	4508.5	4500.9	4232.8	4090.2	4088.3	4088.3	4154.8	4341.2	4727.2	5381.3	5917.5
25°	5035.2	4995.3	4645.4	4461.0	4409.6	4405.8	4398.2	4510.4	4822.3	5508.7	6122.9
27.5°	5575.3	5506.8	5195.0	4911.6	4801.3	4788.0	4738.6	4750.0	4944.0	5653.2	6356.8
30°	6060.2	6016.4	5723.6	5409.8	5278.6	5248.2	5111.3	5048.5	5147.4	5913.7	6729.5
32.5°	6430.9	6404.3	6176.1	5890.9	5697.0	5691.3	5491.6	5440.3	5465.0	6229.4	7155.4
35°	6731.4	6740.9	6624.9	6377.7	6155.2	6122.9	5989.8	5925.1	5852.9	6685.8	7691.7
37.5°	7142.1	7163.0	7155.4	6942.5	6670.5	6678.1	6647.7	6541.2	6349.2	7195.4	8286.8
40°	7594.7	7609.9	7608.0	7526.2	7383.6	7391.2	7379.8	7258.1	6971.0	7843.8	8948.6
42.5°	8220.3	8148.0	7959.8	8041.5	8125.2	8161.3	8239.3	8123.3	7729.7	8535.9	9570.4
45°	8920.0	8783.1	8357.2	8395.2	8705.2	8773.6	9203.4	9043.6	8553.0	9330.8	10302.4
47.5°	9361.2	9226.2	8866.8	8859.2	9269.9	9336.5	10097.1	10038.1	9302.2	10188.4	11196.2
50°	9754.8	9735.8	9330.8	9427.7	9829.0	9927.8	11070.7	11015.5	10049.5	11200.0	12169.7
52.5°	10338.6	10184.6	9861.3	10061.0	10591.5	10720.8	12036.6	11875.0	10736.0	12093.7	13114.8
55°	10601.0	10564.9	10545.8	10718.9	11447.2	11540.3	12976.0	12605.2	11321.7	12850.5	13833.6
57.5°	11302.6	11236.1	11424.3	11542.2	12455.0	12597.6	13957.2	13367.7	11835.1	13451.4	14183.5
60°	12211.6	12175.4	12348.5	12561.5	13580.7	13797.4	15075.3	14018.0	12247.7	13753.7	13991.4
62.5°	13569.3	13565.5	13533.1	13989.5	15176.1	15375.7	16358.8	14651.2	12312.4	13527.4	12998.8
65°	15516.4	15448.0	15166.5	15664.7	17161.2	17395.1	17695.6	15004.9	11922.5	12365.6	10945.2
67.5°	17553.0	17549.2	17321.0	17967.5	20011.6	20253.1	19367.0	14927.0	10840.6	10017.2	7773.4
70°	19241.5	19159.7	19450.7	21173.5	23653.0	23932.6	20829.3	14008.5	8634.8	6615.4	4618.8
72.5°	19646.5	19650.3	20255.0	23645.4	27149.9	27193.7	21356.0	11354.0	5778.7	3649.0	2310.3
74°	18399.1	18431.5	19368.9	23769.0	27802.2	27604.4	20009.7	8923.8	3907.6	2382.6	1665.7
75°	16794.2	16590.8	17946.6	22945.7	27125.2	26912.2	18433.4	7161.1	2981.6	1903.4	1458.5
77.5°	8979.0	9186.3	11277.9	17123.2	22036.7	21791.4	12498.7	3434.1	1610.6	1325.4	1049.6
80°	3196.5	3525.4	4955.4	8960.0	14128.3	14204.4	5965.1	1574.5	1133.3	977.4	741.6
82.5°	1304.4	1340.6	2127.8	3976.1	7174.4	7242.9	2435.9	935.5	810.0	673.1	443.1
85°	509.6	524.8	941.3	1787.4	3061.5	3261.1	842.4	494.4	498.2	386.0	226.3
87.5°	171.1	194.0	386.0	595.2	1040.1	1019.2	245.3	146.4	178.7	167.3	70.4
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°	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6	5240.6
2.5°	5257.7	5293.8	5318.6	5345.2	5369.9	5377.5	5371.8	5388.9	5390.8	5392.7	5394.6
5°	5288.1	5337.6	5385.1	5411.7	5423.1	5413.6	5381.3	5364.2	5349.0	5337.6	5341.4
7.5°	5330.0	5400.3	5444.1	5455.5	5425.0	5381.3	5301.4	5238.7	5198.8	5172.1	5170.2
10°	5394.6	5463.1	5499.2	5466.9	5383.2	5276.7	5151.2	5033.3	4944.0	4917.3	4915.4
12.5°	5476.4	5554.3	5552.4	5457.4	5311.0	5120.8	4917.3	4780.4	4658.7	4597.9	4622.6
15°	5582.9	5641.8	5586.7	5415.5	5183.6	4923.0	4672.0	4485.7	4348.8	4284.1	4287.9
17.5°	5706.5	5757.8	5611.4	5341.4	5004.8	4670.1	4379.2	4202.4	4094.0	4046.4	4042.6
20°	5860.5	5875.7	5611.4	5212.1	4774.7	4375.4	4097.8	3974.2	3913.3	3888.6	3896.2
22.5°	6025.9	5995.5	5581.0	5029.5	4472.4	4067.4	3881.0	3825.9	3795.4	3791.6	3795.4
25°	6212.3	6126.7	5518.2	4782.3	4156.7	3801.1	3692.8	3702.3	3708.0	3708.0	3721.3
27.5°	6440.5	6269.3	5413.6	4470.5	3787.8	3553.9	3523.5	3590.1	3620.5	3626.2	3635.7
30°	6740.9	6425.2	5240.6	4080.7	3474.1	3331.5	3384.7	3474.1	3508.3	3529.2	3525.4
32.5°	7098.4	6596.4	5006.7	3690.9	3221.2	3175.5	3240.2	3331.5	3369.5	3380.9	3365.7
35°	7518.6	6790.3	4698.7	3325.8	3000.6	3027.2	3103.3	3131.8	3166.0	3166.0	3173.6
37.5°	7971.2	6946.3	4322.2	2991.1	2829.5	2926.4	2981.6	2955.0	2939.8	2920.7	2930.2
40°	8431.4	7062.3	3833.5	2660.2	2658.3	2821.9	2837.1	2761.0	2700.2	2681.1	2671.6
42.5°	8832.6	7134.5	3392.3	2403.5	2496.7	2719.2	2730.6	2608.9	2511.9	2454.9	2435.9
45°	9306.1	7218.2	2960.7	2190.6	2346.5	2637.4	2665.9	2502.4	2359.8	2240.0	2209.6
47.5°	9954.5	7408.3	2620.3	2025.1	2238.1	2586.1	2626.0	2414.9	2226.7	2070.8	2046.0
50°	10686.6	7668.8	2356.0	1912.9	2154.4	2540.4	2589.9	2325.6	2103.1	1930.0	1911.0
52.5°	11357.8	7809.6	2127.8	1812.2	2072.7	2456.8	2542.3	2260.9	1981.4	1789.3	1772.2
55°	11724.8	7581.4	1903.4	1713.3	1960.5	2348.4	2475.8	2171.5	1863.5	1715.2	1690.5
57.5°	11774.2	7109.8	1700.0	1606.8	1842.6	2215.3	2352.2	2063.2	1787.4	1663.8	1642.9
60°	11392.0	6406.2	1542.1	1519.3	1722.8	2065.1	2213.4	1968.1	1709.5	1606.8	1585.9
62.5°	10441.3	5641.8	1431.8	1439.5	1601.1	1907.2	2110.7	1876.8	1635.3	1544.0	1525.0
65°	8806.0	4656.8	1325.4	1357.7	1492.7	1783.6	2017.5	1800.7	1561.1	1496.5	1479.4
67.5°	6117.2	3361.9	1237.9	1272.1	1390.0	1658.1	1909.1	1719.0	1477.5	1443.3	1416.6
70°	3386.6	2068.9	1135.2	1175.1	1283.5	1517.4	1787.4	1595.4	1355.8	1340.6	1302.5
72.5°	1779.8	1317.8	1019.2	1063.0	1139.0	1336.8	1601.1	1460.4	1236.0	1171.3	1121.9
74°	1390.0	1080.1	941.3	986.9	1038.2	1230.3	1490.8	1363.4	1150.4	1074.4	1036.3
75°	1211.3	962.2	874.7	933.6	979.3	1158.0	1405.2	1294.9	1102.9	1030.6	996.4
77.5°	855.7	720.7	715.0	785.3	810.0	1015.4	1266.4	1178.9	983.1	907.0	874.7
80°	600.9	540.0	566.7	610.4	644.6	897.5	1175.1	1019.2	806.2	716.9	705.5
82.5°	391.7	353.7	405.0	445.0	456.4	661.7	948.9	773.9	587.6	477.3	443.1
85°	180.6	176.8	232.0	226.3	224.4	323.3	562.9	452.6	338.5	252.9	237.7
87.5°	45.6	43.7	57.0	47.5	57.0	49.4	51.3	13.3	1.9	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)