

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: P459057

Luminaire Tested: **GALN-SA5C-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32524 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

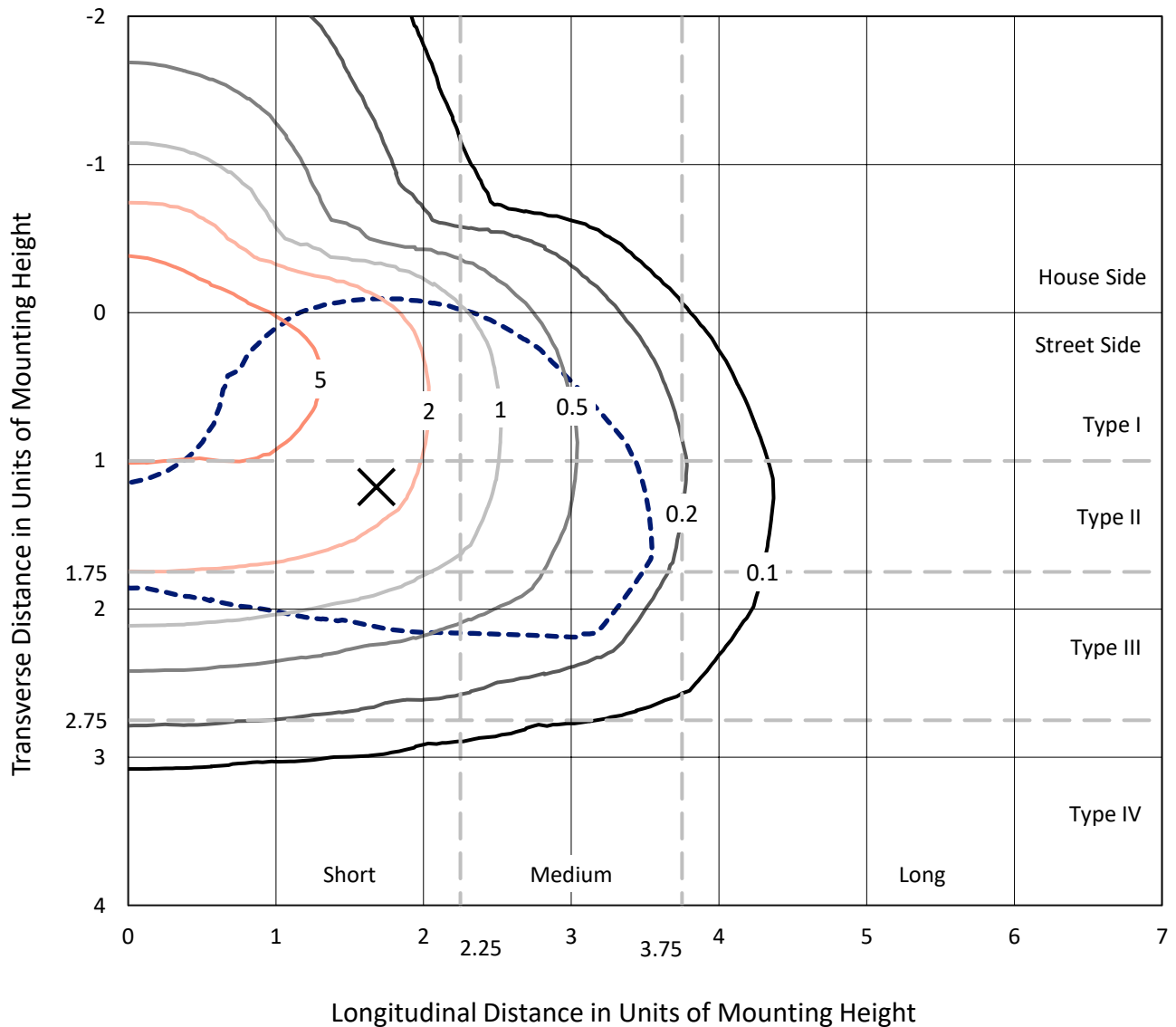
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

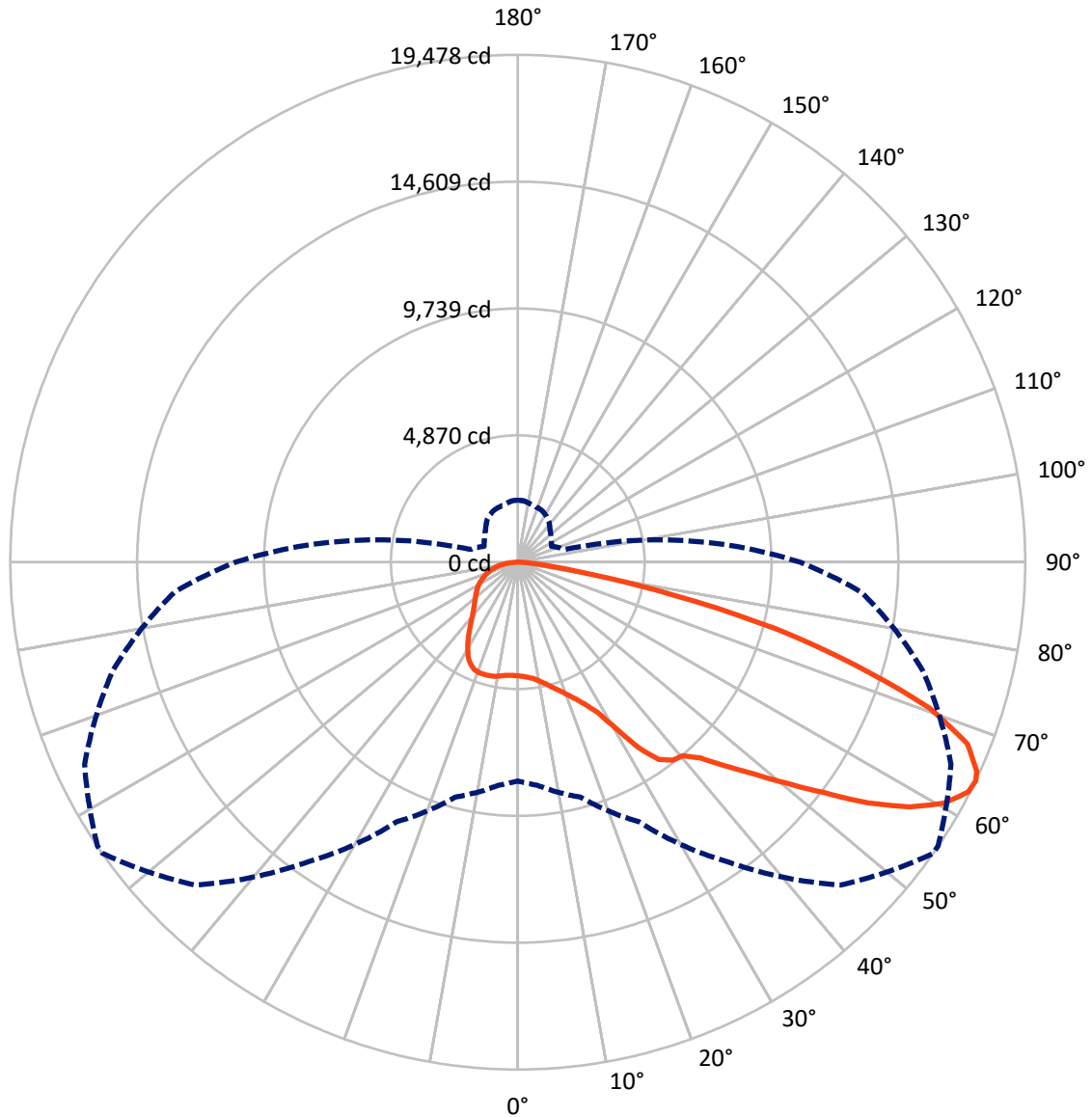
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical



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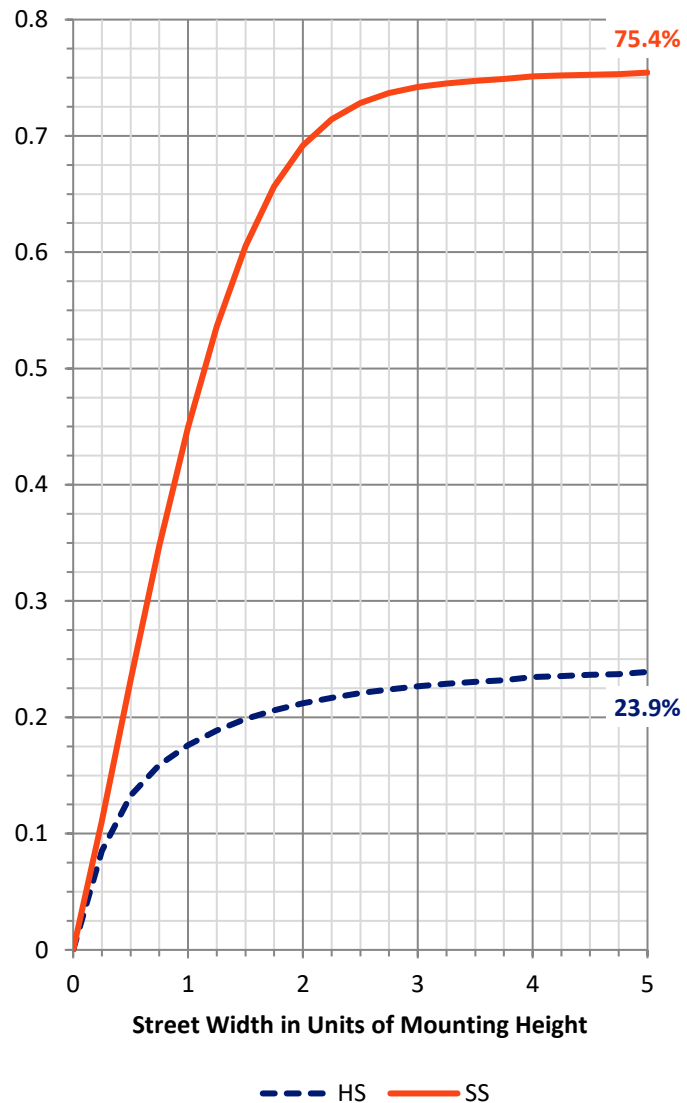
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7900.7	0.0	7900.7
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	24623.3	0.0	24623.3
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	32524.0	0.0	32524.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.5	1.3
10°-20°	1339.3	4.1
20°-30°	2384.4	7.3
30°-40°	3668.6	11.3
40°-50°	5200.6	16.0
50°-60°	7527.8	23.1
60°-70°	7790.4	24.0
70°-80°	3648.3	11.2
80°-90°	540.1	1.7
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°	32524.0	100.0
0°-180°	32524.0	100.0



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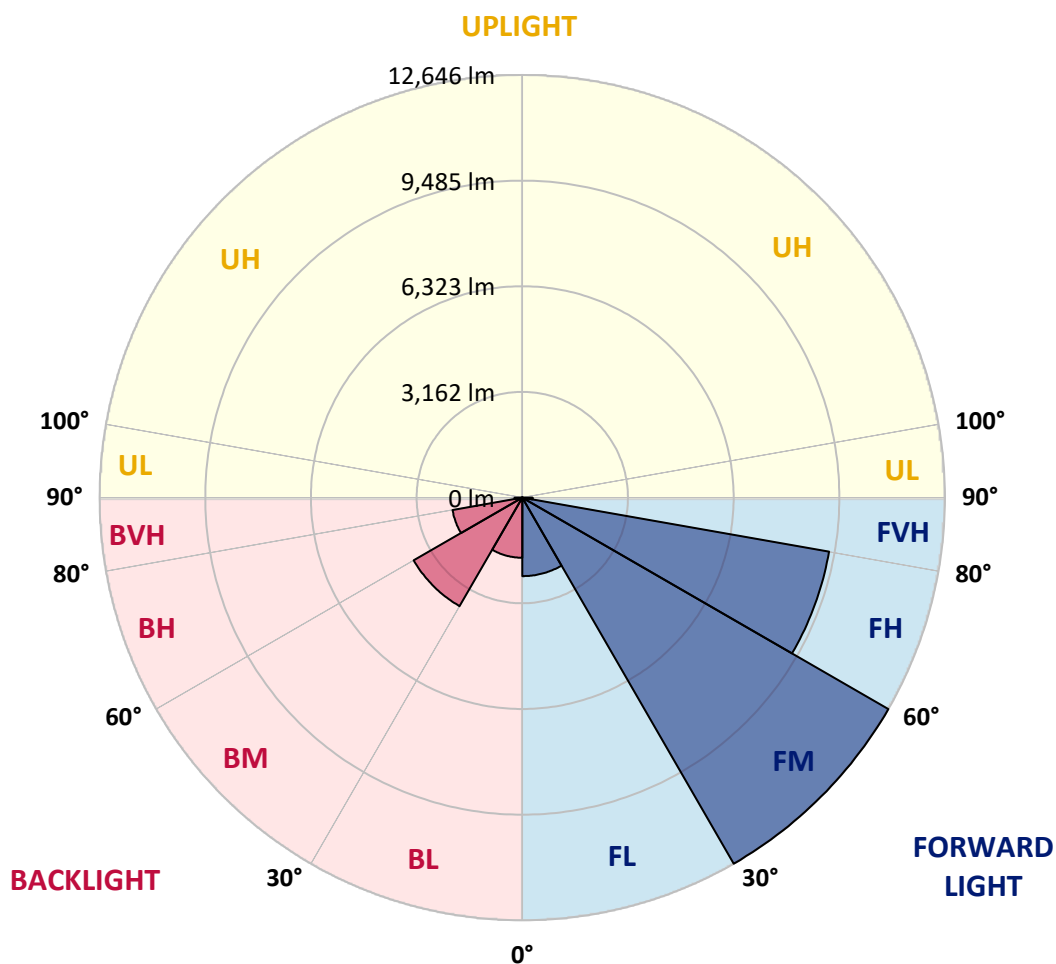
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2348.7	7.2			
FM	(30°-60°)	12646.2	38.9			
FH	(60°-80°)	9319.1	28.7			G4/12000
FVH	(80°-90°)	309.2	1.0			G3/500
BL	(0°-30°)	1799.5	5.5	B3/2500		
BM	(30°-60°)	3750.8	11.5	B3/5000		
BH	(60°-80°)	2119.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	230.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7
2.5°	4412.7	4410.9	4416.3	4410.9	4414.5	4401.8	4396.4	4400.0	4394.6	4385.5	4369.2
5°	4467.1	4465.3	4467.1	4459.8	4463.5	4456.2	4443.5	4447.1	4438.1	4418.1	4394.6
7.5°	4559.5	4552.3	4552.3	4550.5	4543.2	4532.3	4523.3	4519.7	4510.6	4485.2	4448.9
10°	4679.2	4679.2	4681.0	4666.5	4675.6	4655.6	4646.6	4644.7	4613.9	4581.3	4530.5
12.5°	4836.9	4846.0	4840.5	4833.3	4829.7	4822.4	4791.6	4798.8	4764.4	4708.2	4646.6
15°	5032.7	5047.2	5038.2	5034.5	5025.5	4998.3	4985.6	4980.1	4934.8	4853.2	4771.6
17.5°	5292.0	5273.8	5266.6	5257.5	5219.4	5199.5	5177.7	5174.1	5134.2	5038.2	4911.2
20°	5518.6	5544.0	5529.5	5520.4	5482.3	5444.2	5427.9	5422.5	5388.0	5282.9	5079.8
22.5°	5788.7	5794.1	5799.6	5777.8	5759.7	5730.7	5701.7	5692.6	5679.9	5571.2	5322.8
25°	6077.0	6098.7	6080.6	6058.8	6037.1	6035.3	6062.5	6058.8	6053.4	5948.2	5645.5
27.5°	6546.5	6566.5	6571.9	6548.3	6464.9	6472.2	6533.8	6553.8	6637.2	6463.1	6060.6
30°	6811.2	6831.1	6876.5	6965.3	7097.6	7213.7	7362.3	7407.7	7487.4	7159.3	6553.8
32.5°	6974.4	6981.6	7063.2	7228.2	7625.2	8058.5	8462.8	8479.1	8529.9	8069.4	7005.2
35°	7231.8	7237.2	7302.5	7483.8	7949.7	8671.3	9296.7	9316.7	9275.0	8352.2	7215.5
37.5°	7549.1	7563.6	7605.3	7755.7	8312.3	9184.3	9643.0	9628.5	9258.7	8577.0	7587.1
40°	8011.4	8011.4	7962.4	8165.5	8694.8	9478.0	9764.5	9739.1	9641.2	9227.8	8152.8
42.5°	8419.3	8412.0	8528.1	8665.8	9173.5	9931.3	10273.9	10315.6	10477.0	10045.5	8796.4
45°	8950.5	8983.1	9048.4	9298.6	9987.5	10705.4	11147.7	11187.6	11416.1	11008.2	9548.7
47.5°	9487.1	9498.0	9702.8	10036.4	10995.5	11755.1	12117.7	12182.9	12391.4	12134.0	10359.1
50°	9867.8	9971.2	10299.3	10825.0	12034.3	13035.0	13317.8	13395.8	13763.8	13359.5	11303.7
52.5°	10270.3	10371.8	10772.5	11573.8	13227.2	14344.0	14692.0	14744.6	15127.1	14599.6	12270.0
55°	10614.7	10709.0	11164.1	12237.3	14177.2	15680.1	16311.0	16249.4	16432.5	15555.0	13015.1
57.5°	10670.9	10747.1	11320.0	12661.6	14891.5	16825.9	17730.5	17766.8	17554.7	16269.3	13629.7
60°	10235.8	10391.8	11049.9	12616.2	15212.4	17623.6	18789.3	18814.7	18212.8	16635.5	13874.4
62.5°	9465.3	9449.0	10244.9	11887.4	14762.7	17804.9	19412.9	19385.7	18470.2	16459.7	13636.9
64°	8401.1	8596.9	9340.3	10991.8	14037.6	17525.7	19478.2	19463.7	18346.9	16093.4	13232.6
65°	7752.1	7741.2	8475.5	10259.4	13316.0	17105.1	19362.2	19342.2	18089.5	15765.3	12919.0
67.5°	5596.5	5621.9	6347.1	7917.1	10825.0	15460.7	18606.2	18531.8	17074.2	14677.5	11726.1
70°	3390.2	3404.7	3974.0	5252.1	7770.2	12498.4	16771.5	16775.1	15520.6	13053.1	9980.2
72.5°	1785.7	1823.8	2052.2	2982.3	4719.1	8769.2	13606.1	13928.8	13325.1	11140.5	7884.5
75°	993.5	998.9	1160.3	1470.3	2407.6	4907.6	10226.8	10319.2	10549.5	8966.8	5830.4
77.5°	757.8	768.7	819.4	950.0	1310.8	2275.2	6189.4	6653.5	7434.9	6321.7	3326.7
80°	614.6	625.5	669.0	746.9	872.0	1078.7	2875.3	3125.5	3979.4	2806.4	1298.1
82.5°	478.6	471.4	527.6	578.3	634.5	638.2	1180.2	1305.3	1620.8	1207.4	562.0
85°	355.3	355.3	400.7	389.8	409.7	373.5	520.3	574.7	649.0	513.1	261.1
87.5°	141.4	155.9	262.9	235.7	183.1	146.8	192.2	203.0	224.8	201.2	108.8
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°	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7	4363.7
2.5°	4371.0	4376.4	4363.7	4354.7	4351.0	4345.6	4340.2	4342.0	4349.2	4356.5	4354.7
5°	4392.7	4394.6	4372.8	4361.9	4354.7	4347.4	4347.4	4352.9	4367.4	4378.2	4378.2
7.5°	4447.1	4447.1	4416.3	4396.4	4385.5	4372.8	4369.2	4371.0	4381.9	4396.4	4398.2
10°	4532.3	4525.1	4485.2	4454.4	4434.4	4403.6	4376.4	4361.9	4367.4	4376.4	4376.4
12.5°	4635.7	4615.7	4565.0	4523.3	4474.3	4416.3	4360.1	4331.1	4329.3	4338.4	4334.7
15°	4746.3	4724.5	4653.8	4577.7	4492.5	4407.2	4340.2	4298.5	4265.8	4256.8	4276.7
17.5°	4875.0	4829.7	4731.8	4626.6	4499.7	4389.1	4284.0	4198.8	4140.7	4124.4	4129.9
20°	5030.9	4971.1	4838.7	4673.8	4494.3	4323.9	4160.7	4046.5	3952.2	3923.2	3926.8
22.5°	5246.6	5143.3	4949.3	4697.3	4448.9	4200.6	3974.0	3825.3	3711.1	3665.8	3693.0
25°	5491.4	5379.0	5054.5	4691.9	4331.1	4003.0	3752.8	3558.8	3455.5	3388.4	3402.9
27.5°	5828.6	5629.2	5166.9	4642.9	4162.5	3761.8	3471.8	3288.7	3194.4	3159.9	3176.3
30°	6260.1	5953.7	5288.3	4510.6	3896.0	3457.3	3189.0	3069.3	3013.1	2969.6	2984.1
32.5°	6571.9	6182.1	5315.5	4287.6	3607.7	3179.9	2996.8	2908.0	2846.3	2804.6	2813.7
35°	6794.9	6376.1	5302.8	4013.8	3306.8	2951.5	2844.5	2772.0	2672.3	2581.6	2565.3
37.5°	7094.0	6619.0	5210.4	3714.7	3009.5	2797.4	2721.2	2587.1	2443.8	2322.4	2316.9
40°	7552.7	6903.7	5012.8	3363.0	2755.7	2683.1	2590.7	2416.6	2262.5	2164.6	2157.4
42.5°	8025.9	7166.5	4744.5	2993.2	2547.2	2563.5	2451.1	2278.9	2184.6	2121.1	2113.9
45°	8604.2	7451.2	4454.4	2672.3	2393.1	2451.1	2329.6	2229.9	2173.7	2132.0	2121.1
47.5°	9229.7	7743.1	4128.1	2384.0	2262.5	2347.8	2278.9	2233.5	2202.7	2173.7	2161.0
50°	9904.1	8069.4	3821.7	2152.0	2144.7	2240.8	2273.4	2257.1	2239.0	2229.9	2219.0
52.5°	10643.8	8403.0	3564.2	1988.8	2041.4	2164.6	2275.2	2287.9	2287.9	2282.5	2275.2
55°	11144.1	8635.0	3303.2	1856.4	1936.2	2103.0	2271.6	2320.6	2338.7	2331.4	2324.2
57.5°	11514.0	8761.9	2975.0	1742.2	1847.4	2043.2	2251.7	2324.2	2342.3	2351.4	2347.8
60°	11590.1	8644.1	2545.4	1622.6	1751.3	1956.2	2179.2	2269.8	2293.4	2349.6	2355.0
62.5°	11247.5	8281.5	2117.5	1504.7	1633.5	1823.8	2081.3	2208.2	2255.3	2342.3	2351.4
64°	10826.9	7875.4	1880.0	1430.4	1557.3	1749.5	2032.3	2191.8	2253.5	2369.5	2376.8
65°	10518.7	7579.9	1731.4	1383.3	1508.4	1700.5	2005.1	2197.3	2269.8	2411.2	2422.1
67.5°	9383.8	6562.8	1432.2	1272.7	1392.3	1617.1	2010.5	2242.6	2266.2	2427.5	2425.7
70°	7764.8	5224.9	1200.2	1171.2	1279.9	1550.1	1988.8	2170.1	2171.9	2278.9	2253.5
72.5°	5814.1	3861.6	1040.6	1066.0	1154.8	1390.5	1878.2	2072.2	2041.4	2055.9	2030.5
75°	3993.9	2554.4	895.6	953.6	1024.3	1229.2	1722.3	1881.8	1832.9	1814.7	1796.6
77.5°	2132.0	1412.3	745.1	843.0	890.2	1062.4	1502.9	1657.0	1606.3	1535.6	1512.0
80°	863.0	665.3	600.1	698.0	725.2	855.7	1250.9	1347.0	1308.9	1185.7	1145.8
82.5°	433.3	398.8	471.4	549.3	551.1	611.0	930.0	1020.7	935.5	785.0	750.6
85°	226.6	233.9	324.5	386.2	340.8	330.0	558.4	618.2	567.4	493.1	444.2
87.5°	81.6	94.3	170.4	168.6	119.7	63.5	123.3	59.8	32.6	19.9	25.4
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)