

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: P458943

Luminaire Tested: **GALN-SA4C-735-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458943  
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-SA4C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26513 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

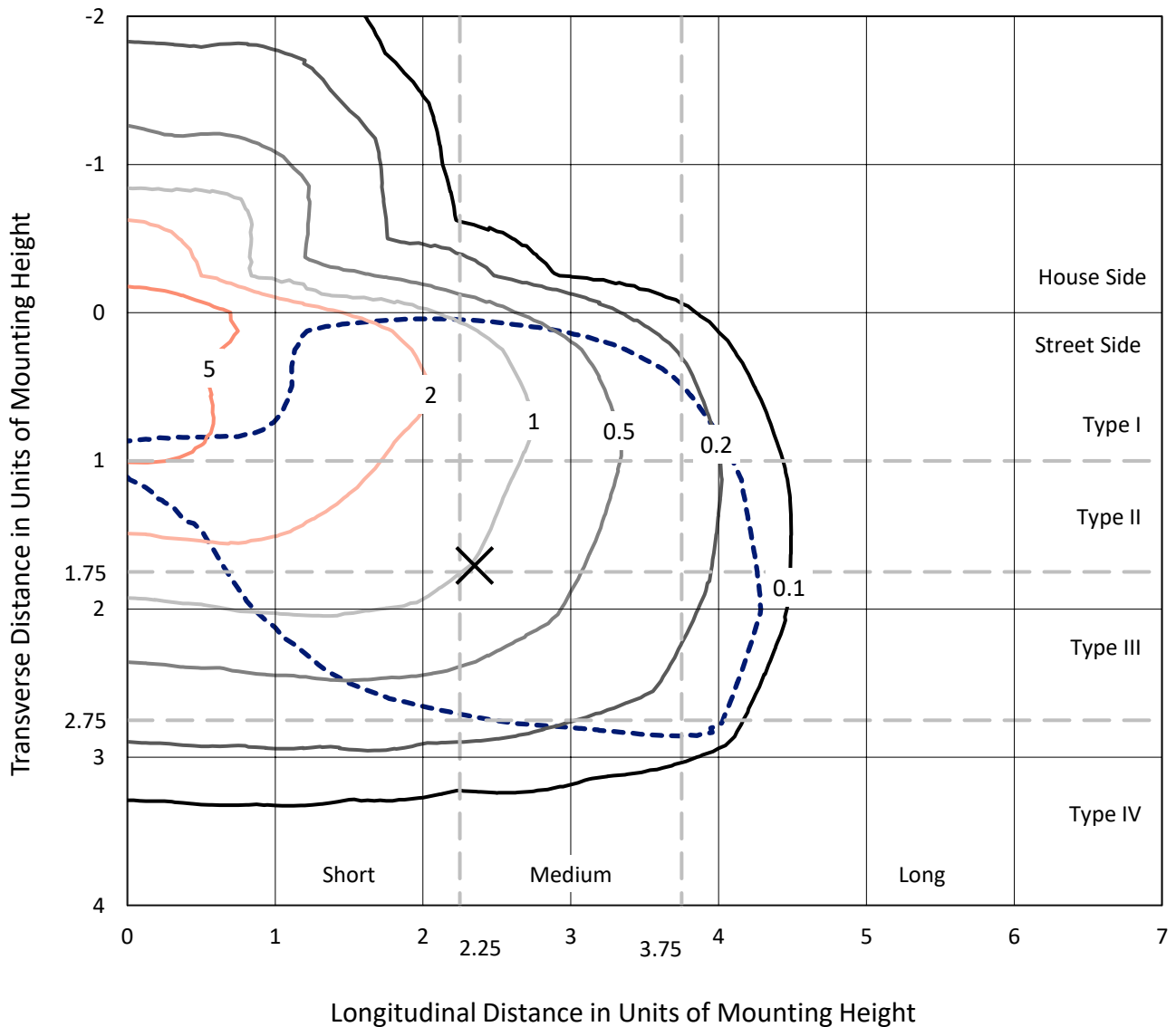
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

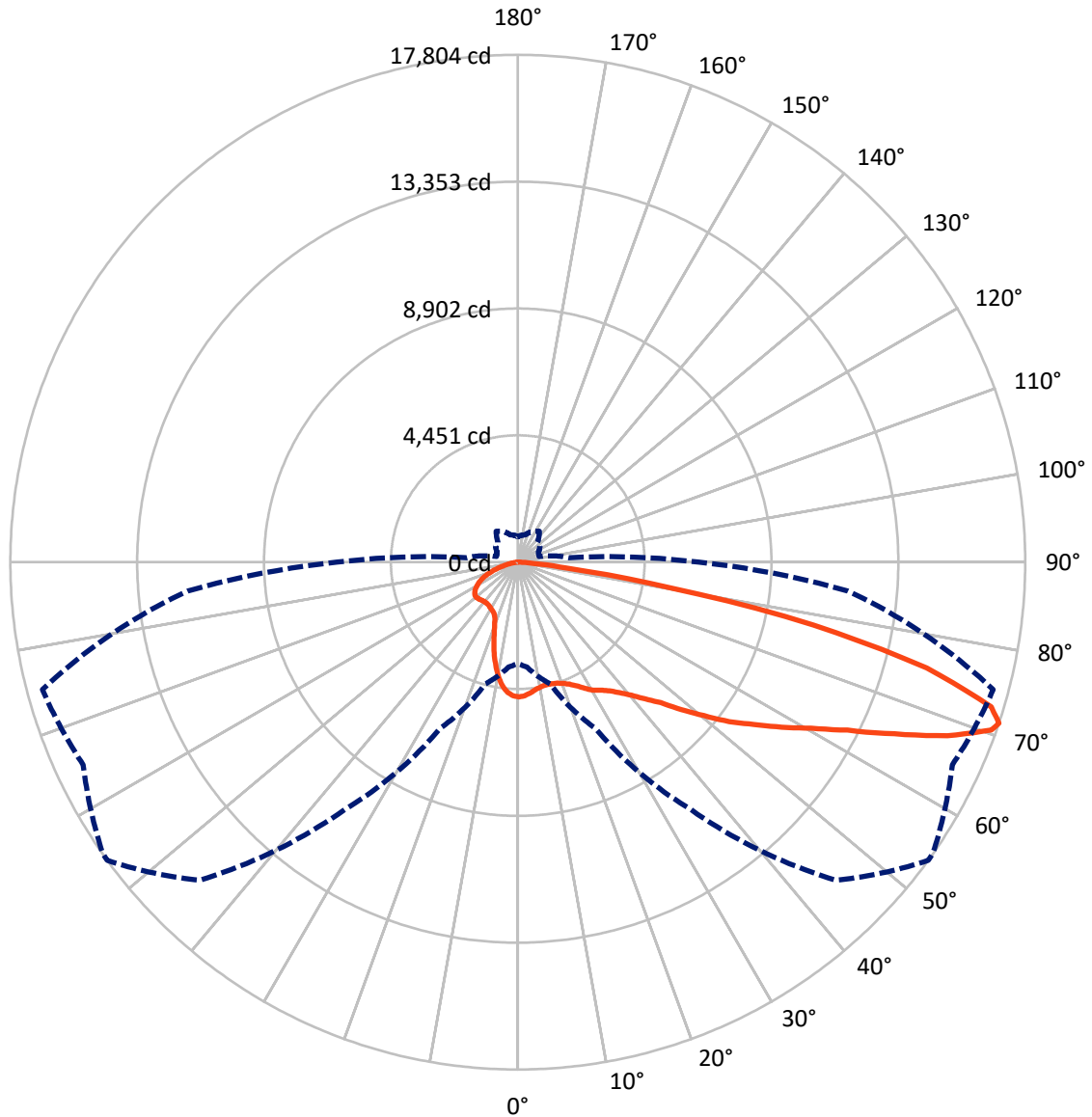
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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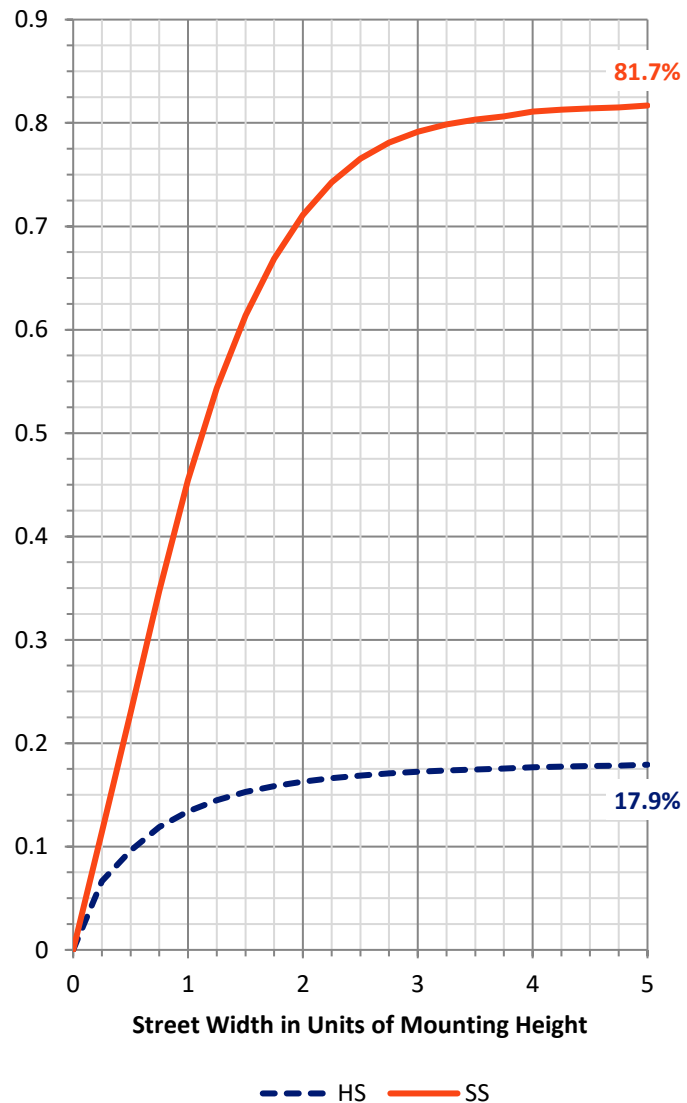
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4786.7	0.0	4786.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	21726.2	0.0	21726.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	26513.0	0.0	26513.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.5	1.6
10°-20°	1113.1	4.2
20°-30°	1853.3	7.0
30°-40°	2740.5	10.3
40°-50°	3860.0	14.6
50°-60°	5168.8	19.5
60°-70°	6514.8	24.6
70°-80°	4449.6	16.8
80°-90°	391.3	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°	26513.0	100.0
0°-180°	26513.0	100.0



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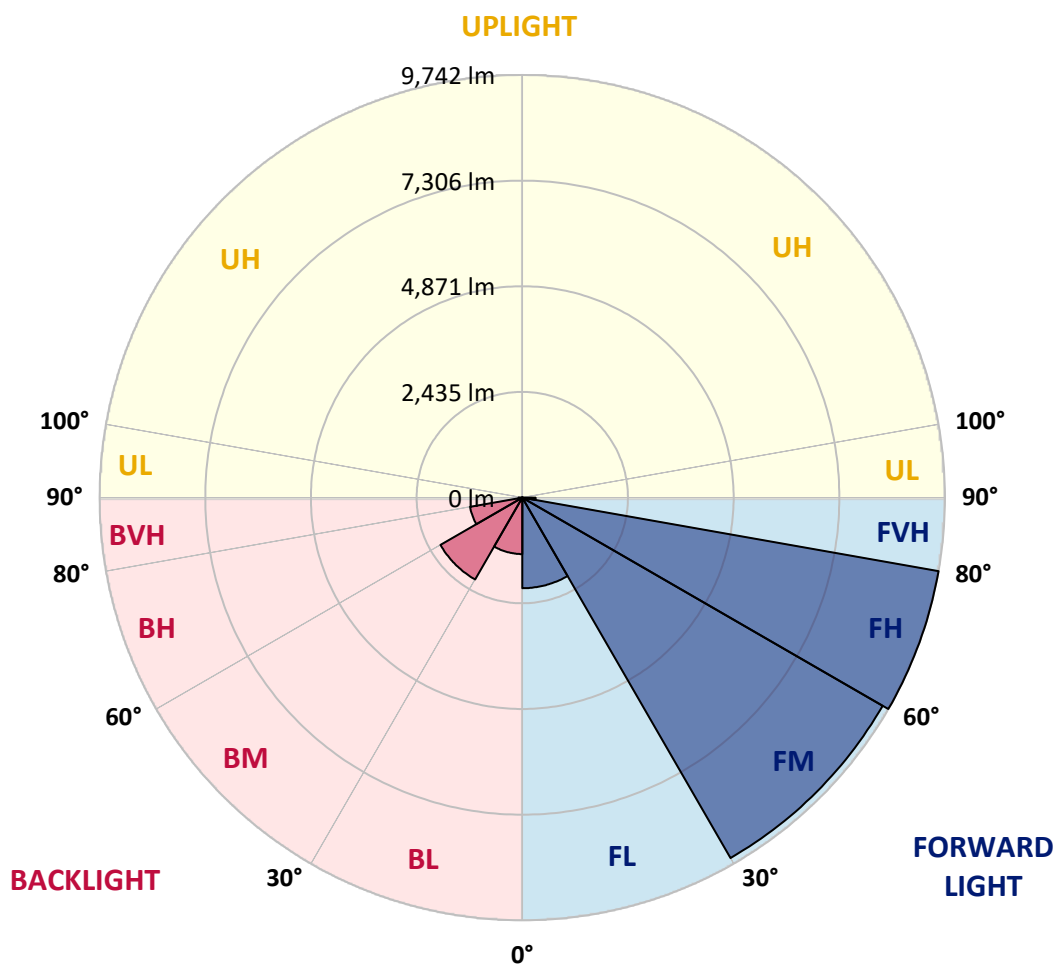
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2087.0	7.9			
FM	(30°-60°)	9591.4	36.2			
FH	(60°-80°)	9741.9	36.7			G4/12000
FVH	(80°-90°)	305.9	1.2			G3/500
BL	(0°-30°)	1301.0	4.9	B3/2500		
BM	(30°-60°)	2177.8	8.2	B2/2500		
BH	(60°-80°)	1222.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	85.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3
2.5°	4569.9	4591.4	4597.1	4611.4	4641.5	4665.9	4690.2	4687.3	4721.7	4736.0	4748.9
5°	4366.6	4372.3	4393.8	4422.4	4475.4	4542.7	4608.6	4610.0	4694.5	4761.8	4794.8
7.5°	4217.6	4236.2	4250.5	4280.6	4336.5	4409.5	4514.1	4522.7	4673.0	4806.2	4876.4
10°	4120.2	4141.7	4157.5	4194.7	4250.5	4332.2	4445.3	4461.1	4657.3	4876.4	4999.6
12.5°	4031.4	4052.9	4067.2	4115.9	4189.0	4289.2	4416.7	4435.3	4663.0	4958.0	5134.2
15°	4085.9	4103.0	4097.3	4111.6	4160.3	4274.9	4428.1	4446.8	4684.5	5036.8	5267.4
17.5°	4327.9	4342.2	4294.9	4240.5	4217.6	4302.1	4463.9	4484.0	4727.4	5118.4	5403.4
20°	4684.5	4723.2	4620.0	4498.3	4388.0	4399.5	4538.4	4559.9	4787.6	5200.0	5542.3
22.5°	5148.5	5177.1	5051.1	4850.6	4647.2	4542.7	4650.1	4663.0	4877.8	5306.0	5694.1
25°	5694.1	5711.3	5536.6	5278.8	4985.2	4787.6	4803.4	4826.3	5026.8	5426.3	5828.8
27.5°	6224.0	6278.4	6076.5	5761.4	5374.8	5045.4	5013.9	5028.2	5188.6	5493.6	5921.8
30°	6852.7	6848.4	6635.0	6269.8	5774.3	5326.1	5212.9	5210.1	5276.0	5526.6	5989.2
32.5°	7354.0	7412.7	7203.6	6805.5	6231.2	5616.8	5350.4	5344.7	5343.3	5583.9	6089.4
35°	7924.0	7932.5	7740.6	7339.6	6725.3	5982.0	5542.3	5513.7	5480.7	5707.0	6225.5
37.5°	8433.8	8473.9	8297.7	7848.0	7210.8	6361.5	5805.8	5787.2	5687.0	5920.4	6443.1
40°	8831.9	8862.0	8756.0	8327.8	7689.1	6771.1	6141.0	6106.6	5984.9	6269.8	6733.9
42.5°	8962.2	9023.8	9065.4	8854.8	8239.0	7256.6	6553.4	6510.4	6417.4	6799.7	7069.0
45°	8972.3	9069.7	9288.8	9298.8	8791.8	7838.0	7034.6	7004.5	6997.4	7478.6	7540.1
47.5°	8896.4	8995.2	9363.2	9562.3	9284.5	8425.2	7729.2	7681.9	7686.2	8317.8	8068.6
50°	8713.1	8830.5	9277.3	9731.3	9669.7	9035.3	8462.4	8446.7	8535.5	9275.9	8617.1
52.5°	8367.9	8509.7	9188.5	9837.3	9956.1	9560.9	9295.9	9251.5	9476.4	10315.6	9217.2
55°	7412.7	7626.1	8863.4	9896.0	10228.2	10063.5	10046.4	10126.6	10424.4	11449.8	9877.4
57.5°	6914.3	7074.7	8157.4	9906.0	10572.0	10647.9	10922.8	10942.9	11464.2	12654.3	10623.5
60°	6642.2	6784.0	7770.7	9840.1	11051.7	11371.1	11819.3	11890.9	12479.5	13958.9	11396.9
62.5°	6404.5	6526.2	7538.7	9612.4	11593.1	12443.7	12980.8	13015.2	13632.4	15399.6	12160.2
65°	5844.5	5983.4	7071.8	9384.7	12059.9	13784.2	14521.8	14481.7	14859.7	16642.7	12638.5
67.5°	5089.8	5265.9	6199.7	8598.5	12290.5	15249.3	16257.5	16207.4	16071.3	17457.6	12776.0
70°	4126.0	4220.5	5084.0	7239.4	11369.6	16018.3	17628.0	17575.0	16821.8	17565.0	12125.8
71°	3550.2	3697.7	4426.7	6430.2	10603.5	15783.5	17804.2	17789.9	16823.2	17268.6	11636.0
72.5°	2771.2	2861.4	3505.8	4982.4	9012.4	14448.7	17368.8	17423.2	16458.0	16445.1	10626.4
75°	1752.9	1793.0	2199.7	2933.0	4945.1	10232.5	14826.8	14974.3	14613.4	13460.6	7902.5
77.5°	1018.2	1069.8	1317.6	1728.6	2136.7	5553.8	10609.2	10769.6	10153.8	7411.3	3235.2
80°	592.9	650.2	867.9	1003.9	981.0	2060.8	5402.0	5675.5	4396.6	1871.8	908.0
82.5°	329.4	368.1	610.1	611.5	522.7	673.1	1699.9	1778.7	1254.5	754.7	370.9
85°	239.2	270.7	393.8	356.6	250.6	289.3	591.5	620.1	507.0	317.9	120.3
87.5°	84.5	120.3	216.3	171.9	68.7	60.1	170.4	138.9	128.9	88.8	27.2
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°	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3	4730.3
2.5°	4756.1	4759.0	4744.6	4718.9	4693.1	4660.1	4622.9	4594.3	4581.4	4579.9	4578.5
5°	4807.6	4814.8	4760.4	4680.2	4591.4	4482.6	4389.5	4283.5	4256.3	4213.3	4226.2
7.5°	4890.7	4886.4	4779.0	4608.6	4400.9	4170.4	3975.6	3862.4	3745.0	3712.1	3713.5
10°	5009.6	4982.4	4779.0	4462.5	4115.9	3773.7	3501.5	3329.7	3236.6	3159.3	3130.6
12.5°	5135.6	5066.9	4733.2	4257.7	3749.3	3329.7	3037.5	2805.5	2745.4	2682.4	2683.8
15°	5255.9	5141.3	4643.0	3969.9	3354.0	2855.7	2572.1	2433.2	2414.6	2421.7	2420.3
17.5°	5364.7	5194.3	4505.5	3649.1	2892.9	2448.9	2298.6	2308.6	2358.7	2394.5	2398.8
20°	5475.0	5225.8	4300.7	3219.4	2457.5	2202.6	2208.3	2287.1	2363.0	2411.7	2418.9
22.5°	5579.6	5240.1	4060.1	2804.1	2142.5	2098.1	2182.6	2267.1	2341.5	2388.8	2395.9
25°	5648.3	5207.2	3719.2	2370.2	1987.8	2060.8	2149.6	2221.2	2284.2	2332.9	2344.4
27.5°	5666.9	5101.2	3296.8	2019.3	1916.2	2025.0	2106.7	2159.6	2208.3	2254.2	2262.8
30°	5656.9	4945.1	2832.7	1813.1	1874.7	1983.5	2046.5	2085.2	2143.9	2179.7	2186.9
32.5°	5641.1	4763.3	2348.7	1702.8	1840.3	1944.8	1982.1	2016.4	2015.0	2000.7	2010.7
35°	5646.9	4545.6	1956.3	1636.9	1810.2	1916.2	1947.7	1904.7	1781.6	1775.8	1770.1
37.5°	5676.9	4330.7	1671.3	1591.1	1794.5	1911.9	1929.1	1731.4	1622.6	1572.5	1559.6
40°	5754.3	4080.1	1483.7	1556.7	1793.0	1944.8	1844.6	1644.1	1435.0	1337.6	1330.4
42.5°	5857.4	3833.8	1369.1	1535.2	1810.2	1995.0	1810.2	1520.9	1293.2	1235.9	1227.3
45°	6010.6	3551.7	1306.1	1525.2	1836.0	2013.6	1798.8	1430.7	1235.9	1190.1	1190.1
47.5°	6183.9	3282.4	1271.7	1518.1	1868.9	2000.7	1697.1	1402.1	1208.7	1214.4	1241.7
50°	6355.8	3049.0	1245.9	1502.3	1897.6	1993.5	1655.5	1400.6	1215.9	1288.9	1337.6
52.5°	6554.8	2884.3	1214.4	1476.5	1897.6	1947.7	1642.6	1429.3	1235.9	1257.4	1278.9
55°	6795.4	2832.7	1174.3	1420.7	1863.2	1833.1	1635.5	1470.8	1250.2	1200.1	1208.7
57.5°	7113.4	2915.8	1135.7	1350.5	1784.4	1714.3	1632.6	1482.3	1217.3	1175.8	1167.2
60°	7482.9	3080.5	1124.2	1278.9	1677.0	1612.6	1615.4	1449.3	1171.5	1128.5	1135.7
62.5°	7742.1	3179.3	1117.1	1224.5	1559.6	1500.9	1573.9	1409.2	1151.4	1114.2	1121.4
65°	7742.1	3059.0	1051.2	1141.4	1407.8	1366.2	1523.8	1359.1	1125.7	1082.7	1075.5
67.5°	7448.5	2708.2	950.9	1016.8	1240.2	1213.0	1453.6	1298.9	1087.0	1054.0	1036.9
70°	6683.7	2053.7	824.9	870.7	1028.3	1052.6	1363.4	1217.3	1022.5	982.4	956.7
71°	6347.2	1788.7	771.9	796.3	946.6	982.4	1320.4	1182.9	993.9	936.6	890.8
72.5°	5698.4	1506.6	691.7	701.7	809.2	873.6	1230.2	1117.1	939.5	857.8	806.3
75°	4329.3	1099.9	557.1	551.4	598.6	693.1	1041.2	995.3	823.5	713.2	683.1
77.5°	1870.4	598.6	416.7	421.0	406.7	525.6	819.2	855.0	706.0	580.0	552.8
80°	567.1	345.1	285.0	290.7	272.1	352.3	577.1	670.2	567.1	451.1	413.9
82.5°	290.7	206.2	194.8	191.9	173.3	199.1	349.4	458.3	405.3	282.1	249.2
85°	126.0	110.3	96.0	93.1	81.6	71.6	124.6	229.1	214.8	157.5	150.4
87.5°	31.5	28.6	18.6	17.2	10.0	1.4	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)