

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: P455349

Luminaire Tested: **GALN-SA6C-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455349  
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-SA6C-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 37884 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

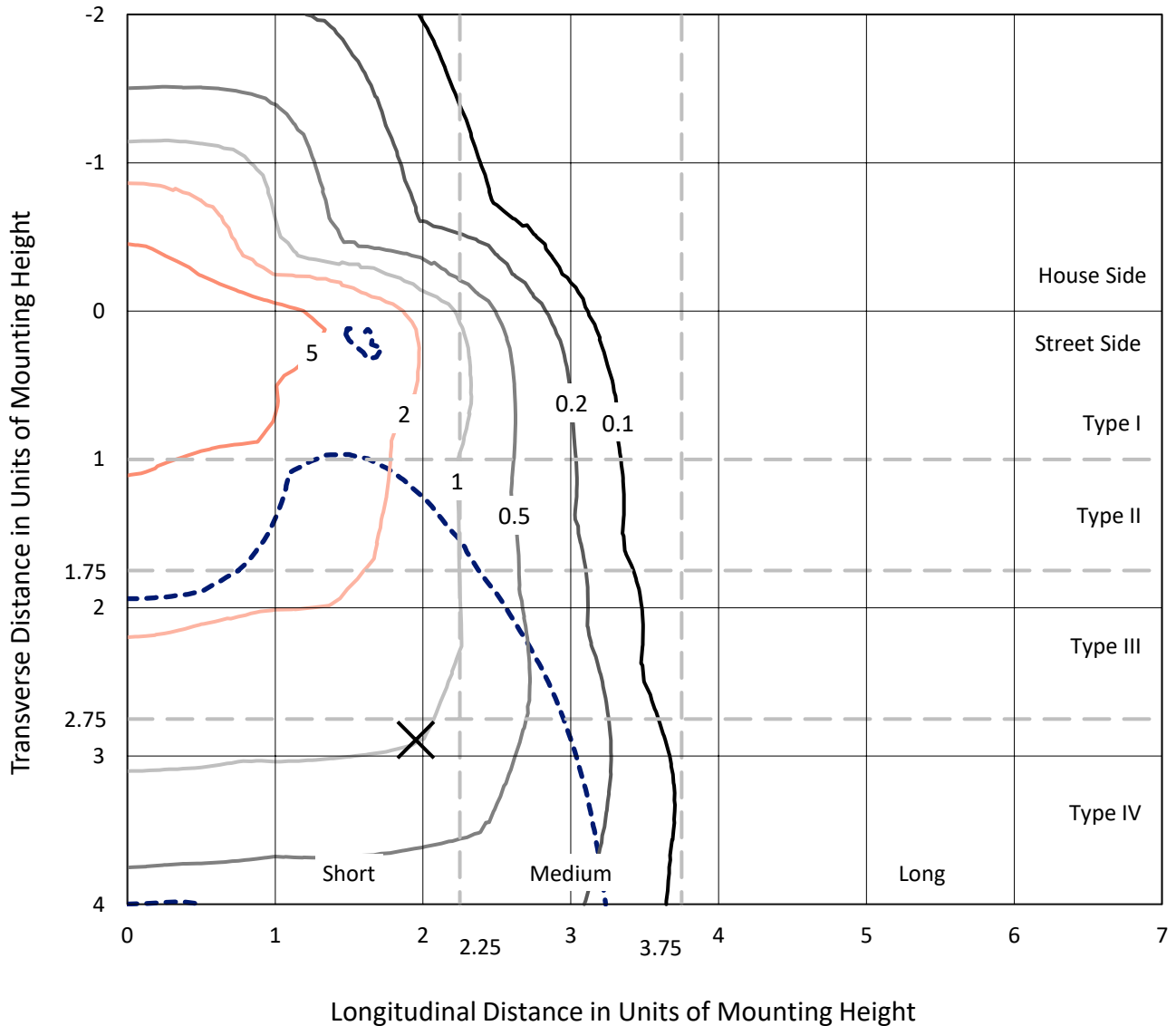
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

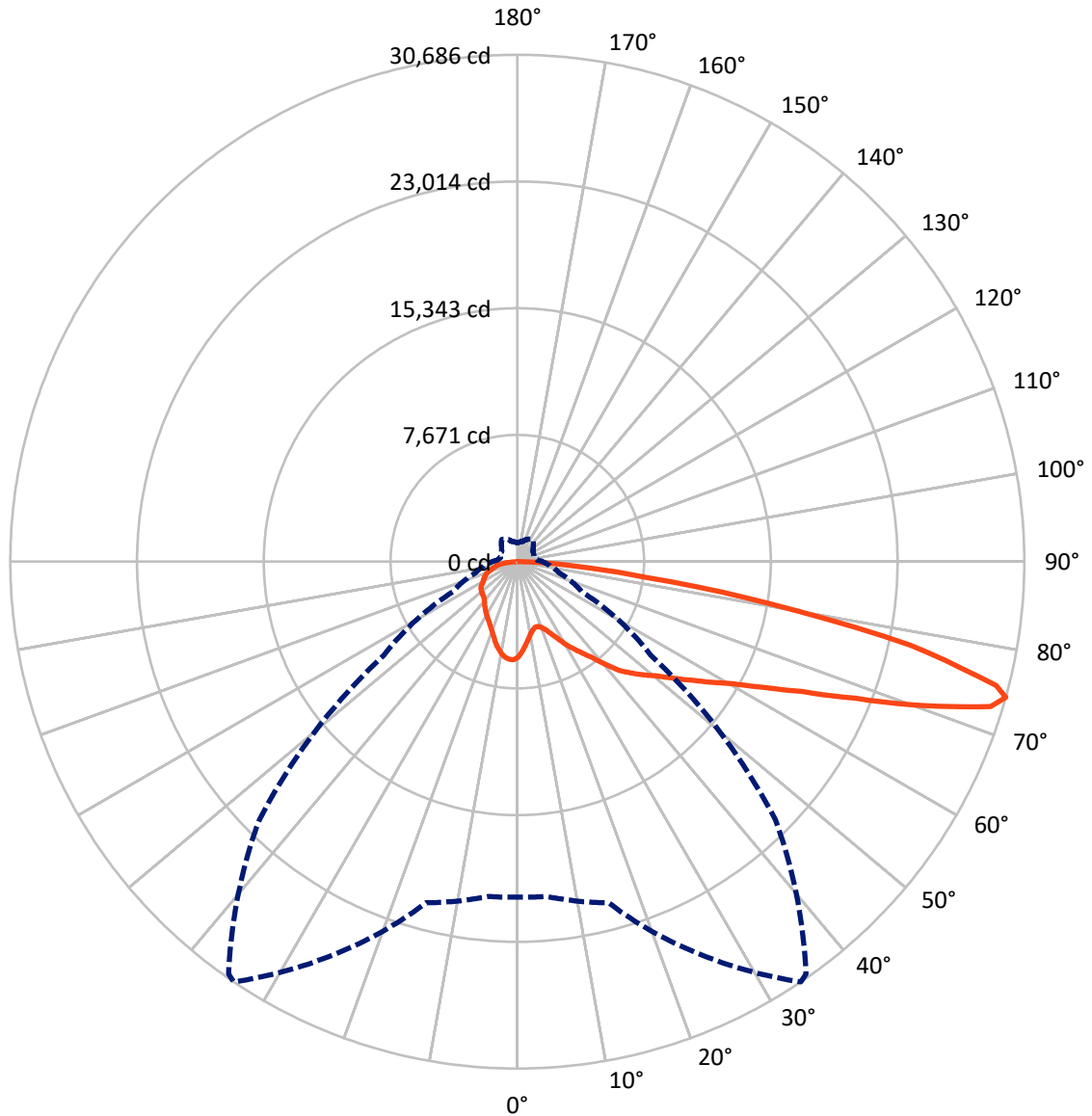
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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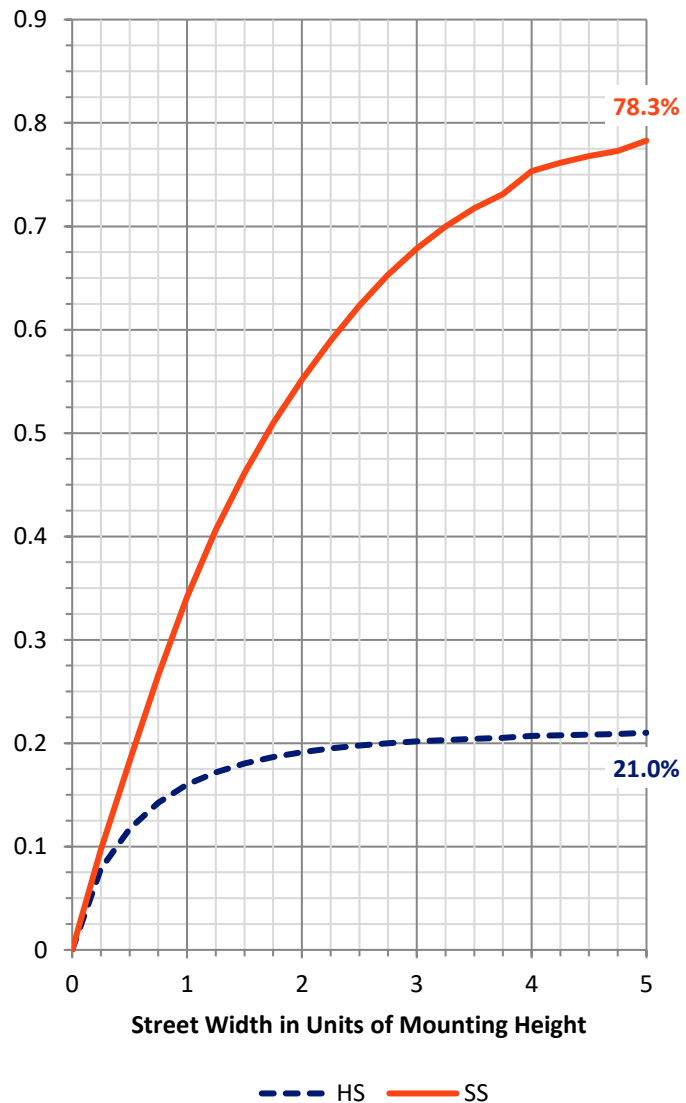
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8062.0	0.0	8062.0
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	29822.0	0.0	29822.0
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	37884.0	0.0	37884.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.0	1.4
10°-20°	1440.0	3.8
20°-30°	2374.2	6.3
30°-40°	3556.3	9.4
40°-50°	5169.9	13.6
50°-60°	7221.1	19.1
60°-70°	9040.5	23.9
70°-80°	7475.7	19.7
80°-90°	1080.2	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°	37884.0	100.0
0°-180°	37884.0	100.0

**Coefficient of Utilization**



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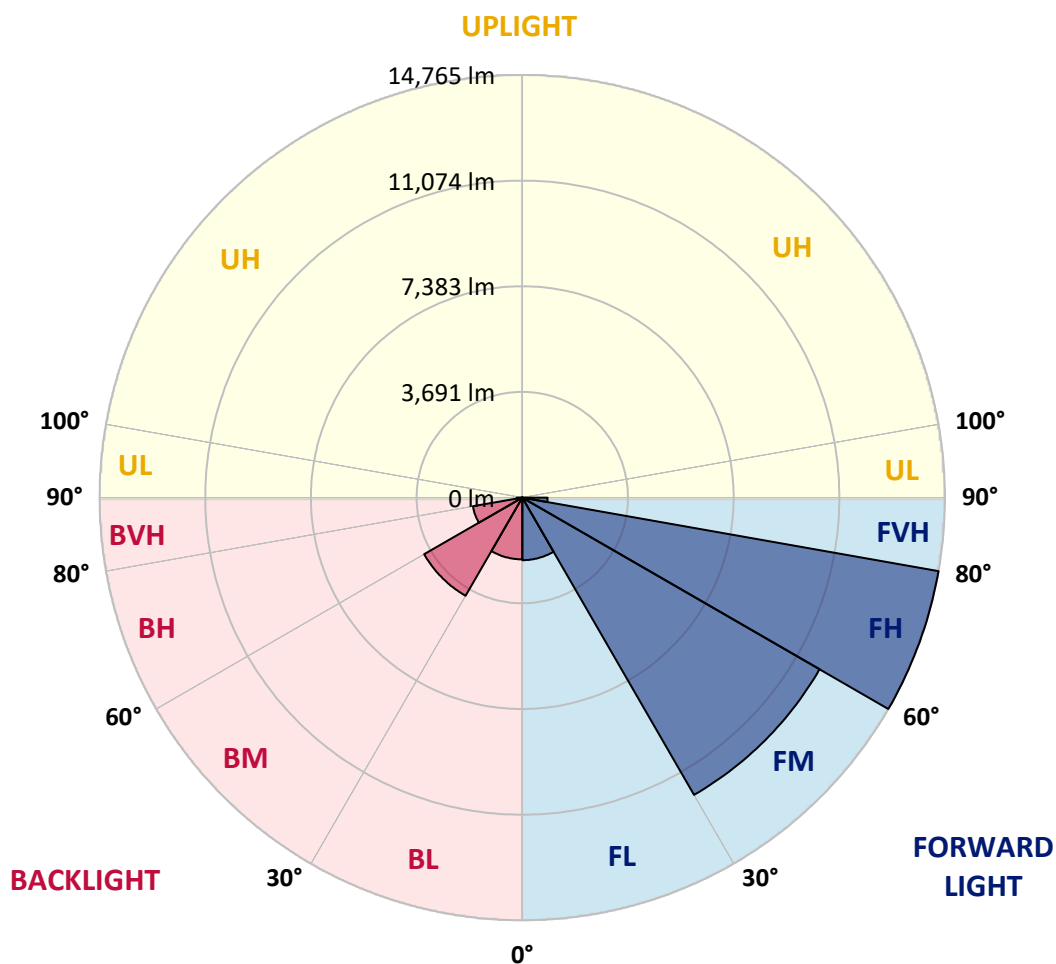
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2183.8	5.8			
FM	(30°-60°)	11988.1	31.6			
FH	(60°-80°)	14765.2	39.0			G5
FVH	(80°-90°)	884.9	2.3			G5
BL	(0°-30°)	2156.4	5.7	B3/2500		
BM	(30°-60°)	3959.3	10.5	B3/5000		
BH	(60°-80°)	1751.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	195.3	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°	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1
2.5°	5345.5	5372.8	5387.5	5439.9	5452.5	5469.3	5513.4	5572.2	5647.7	5714.9	5773.6
5°	4900.6	4942.5	4967.7	5013.9	5104.1	5112.5	5230.1	5364.4	5517.6	5660.3	5777.8
7.5°	4478.7	4524.9	4545.9	4629.8	4749.5	4768.3	4940.4	5152.4	5408.5	5624.6	5805.1
10°	4161.8	4184.9	4231.1	4294.0	4436.7	4449.3	4673.9	4957.2	5288.8	5607.8	5851.3
12.5°	3989.7	4002.3	4012.8	4080.0	4220.6	4239.5	4474.5	4795.6	5194.4	5620.4	5926.9
15°	4014.9	4019.1	3972.9	3985.5	4098.8	4126.1	4359.1	4688.6	5135.6	5651.9	6040.2
17.5°	4226.9	4212.2	4098.8	4040.1	4119.8	4132.4	4336.0	4646.6	5108.3	5710.7	6157.7
20°	4560.6	4539.6	4344.4	4214.3	4260.4	4270.9	4411.6	4678.1	5135.6	5807.2	6340.3
22.5°	4976.1	4967.7	4671.8	4514.4	4512.3	4512.3	4585.8	4791.4	5217.5	5939.4	6531.3
25°	5557.5	5513.4	5127.2	4923.7	4867.0	4862.8	4854.4	4978.2	5322.4	6080.1	6758.0
27.5°	6153.5	6078.0	5733.8	5421.1	5299.3	5284.6	5230.1	5242.7	5456.7	6239.6	7016.1
30°	6688.7	6640.4	6317.2	5970.9	5826.1	5792.5	5641.4	5572.2	5681.3	6527.1	7427.5
32.5°	7098.0	7068.6	6816.7	6501.9	6287.8	6281.5	6061.2	6004.5	6031.8	6875.5	7897.6
35°	7429.6	7440.0	7312.0	7039.2	6793.6	6758.0	6611.0	6539.7	6459.9	7379.2	8489.4
37.5°	7882.9	7906.0	7897.6	7662.5	7362.4	7370.8	7337.2	7219.7	7007.7	7941.6	9146.3
40°	8382.4	8399.2	8397.1	8306.8	8149.4	8157.8	8145.2	8010.9	7694.0	8657.3	9876.7
42.5°	9072.9	8993.1	8785.3	8875.6	8967.9	9007.8	9093.9	8965.8	8531.4	9421.3	10563.0
45°	9845.2	9694.1	9224.0	9266.0	9608.0	9683.6	10157.9	9981.6	9440.1	10298.5	11371.0
47.5°	10332.1	10183.1	9786.4	9778.0	10231.4	10304.8	11144.3	11079.3	10267.1	11245.1	12357.4
50°	10766.6	10745.6	10298.5	10405.6	10848.4	10957.5	12218.9	12158.0	11091.9	12361.6	13432.0
52.5°	11410.9	11240.9	10884.1	11104.5	11690.0	11832.7	13285.0	13106.7	11849.5	13348.0	14475.0
55°	11700.5	11660.6	11639.6	11830.6	12634.4	12737.3	14321.8	13912.6	12495.9	14183.3	15268.4
57.5°	12474.9	12401.5	12609.3	12739.4	13746.8	13904.2	15404.8	14754.2	13062.6	14846.5	15654.5
60°	13478.1	13438.3	13629.2	13864.3	14989.2	15228.5	16638.8	15471.9	13518.0	15180.2	15442.6
62.5°	14976.6	14972.4	14936.8	15440.5	16750.1	16970.4	18055.5	16170.8	13589.4	14930.5	14347.0
65°	17125.7	17050.2	16739.6	17289.5	18941.2	19199.3	19530.9	16561.2	13159.1	13648.1	12080.4
67.5°	19373.5	19369.3	19117.5	19831.0	22087.2	22353.7	21375.7	16475.1	11964.9	11056.2	8579.7
70°	21237.2	21146.9	21468.0	23369.5	26106.3	26414.8	22989.6	15461.4	9530.4	7301.5	5097.8
72.5°	21684.2	21688.4	22355.8	26097.9	29965.9	30014.1	23571.0	12531.6	6378.1	4027.5	2550.0
74°	20307.4	20343.1	21377.8	26234.3	30685.7	30467.5	22085.1	9849.4	4312.9	2629.7	1838.5
75°	18536.1	18311.5	19807.9	25325.5	29938.6	29703.5	20345.2	7903.9	3290.8	2100.8	1609.7
77.5°	9910.3	10139.0	12447.6	18899.2	24322.3	24051.6	13795.0	3790.3	1777.6	1462.8	1158.5
80°	3528.0	3891.1	5469.3	9889.3	15593.7	15677.6	6583.8	1737.8	1250.9	1078.8	818.5
82.5°	1439.7	1479.6	2348.5	4388.5	7918.6	7994.1	2688.5	1032.6	894.1	743.0	489.0
85°	562.5	579.3	1038.9	1972.8	3379.0	3599.3	929.7	545.7	549.9	426.0	249.8
87.5°	188.9	214.1	426.0	656.9	1148.0	1124.9	270.7	161.6	197.3	184.7	77.7
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°	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1
2.5°	5803.0	5842.9	5870.2	5899.6	5926.9	5935.2	5929.0	5947.8	5949.9	5952.0	5954.1
5°	5836.6	5891.2	5943.6	5973.0	5985.6	5975.1	5939.4	5920.6	5903.8	5891.2	5895.4
7.5°	5882.8	5960.4	6008.7	6021.3	5987.7	5939.4	5851.3	5782.0	5738.0	5708.6	5706.5
10°	5954.1	6029.7	6069.6	6033.9	5941.5	5824.0	5685.5	5555.4	5456.7	5427.4	5425.3
12.5°	6044.4	6130.4	6128.3	6023.4	5861.8	5651.9	5427.4	5276.2	5141.9	5074.8	5102.0
15°	6161.9	6227.0	6166.1	5977.2	5721.2	5433.6	5156.6	4950.9	4799.8	4728.5	4732.7
17.5°	6298.3	6355.0	6193.4	5895.4	5523.9	5154.5	4833.4	4638.2	4518.6	4466.1	4461.9
20°	6468.3	6485.1	6193.4	5752.7	5269.9	4829.2	4522.8	4386.4	4319.2	4291.9	4300.3
22.5°	6650.9	6617.3	6159.8	5551.2	4936.2	4489.2	4283.5	4222.7	4189.1	4184.9	4189.1
25°	6856.6	6762.2	6090.6	5278.3	4587.9	4195.4	4075.8	4086.3	4092.6	4092.6	4107.2
27.5°	7108.4	6919.6	5975.1	4934.1	4180.7	3922.6	3889.0	3962.4	3996.0	4002.3	4012.8
30°	7440.0	7091.7	5784.1	4503.9	3834.4	3677.0	3735.8	3834.4	3872.2	3895.3	3891.1
32.5°	7834.6	7280.5	5526.0	4073.7	3555.3	3504.9	3576.3	3677.0	3719.0	3731.6	3714.8
35°	8298.4	7494.6	5186.0	3670.7	3311.8	3341.2	3425.1	3456.6	3494.4	3494.4	3502.8
37.5°	8797.9	7666.7	4770.4	3301.3	3122.9	3230.0	3290.8	3261.4	3244.7	3223.7	3234.2
40°	9305.8	7794.7	4231.1	2936.1	2934.0	3114.5	3131.3	3047.4	2980.2	2959.2	2948.7
42.5°	9748.7	7874.5	3744.2	2652.8	2755.7	3001.2	3013.8	2879.5	2772.4	2709.5	2688.5
45°	10271.3	7966.8	3267.7	2417.8	2589.8	2911.0	2942.4	2761.9	2604.5	2472.3	2438.7
47.5°	10986.9	8176.7	2892.1	2235.2	2470.2	2854.3	2898.4	2665.4	2457.6	2285.5	2258.2
50°	11794.9	8464.2	2600.3	2111.3	2377.9	2803.9	2858.5	2566.8	2321.2	2130.2	2109.2
52.5°	12535.8	8619.5	2348.5	2000.1	2287.6	2711.6	2806.0	2495.4	2186.9	1974.9	1956.0
55°	12940.9	8367.7	2100.8	1891.0	2163.8	2591.9	2732.6	2396.8	2056.8	1893.1	1865.8
57.5°	12995.4	7847.2	1876.3	1773.4	2033.7	2445.0	2596.1	2277.1	1972.8	1836.4	1813.3
60°	12573.6	7070.7	1702.1	1676.9	1901.5	2279.2	2442.9	2172.2	1886.8	1773.4	1750.4
62.5°	11524.2	6227.0	1580.4	1588.7	1767.1	2105.0	2329.6	2071.5	1804.9	1704.2	1683.2
65°	9719.3	5139.8	1462.8	1498.5	1647.5	1968.6	2226.8	1987.5	1723.1	1651.7	1632.8
67.5°	6751.7	3710.6	1366.3	1404.1	1534.2	1830.1	2107.1	1897.3	1630.7	1592.9	1563.6
70°	3737.9	2283.4	1252.9	1297.0	1416.7	1674.8	1972.8	1760.8	1496.4	1479.6	1437.6
72.5°	1964.4	1454.4	1124.9	1173.2	1257.1	1475.4	1767.1	1611.8	1364.2	1292.8	1238.3
74°	1534.2	1192.1	1038.9	1089.2	1145.9	1357.9	1645.4	1504.8	1269.7	1185.8	1143.8
75°	1336.9	1062.0	965.4	1030.5	1080.9	1278.1	1551.0	1429.2	1217.3	1137.5	1099.7
77.5°	944.4	795.4	789.1	866.8	894.1	1120.7	1397.8	1301.2	1085.1	1001.1	965.4
80°	663.2	596.0	625.4	673.7	711.5	990.6	1297.0	1124.9	889.9	791.2	778.6
82.5°	432.3	390.4	447.0	491.1	503.7	730.4	1047.3	854.2	648.5	526.8	489.0
85°	199.4	195.2	256.0	249.8	247.7	356.8	621.2	499.5	373.6	279.1	262.3
87.5°	50.4	48.3	63.0	52.5	63.0	54.6	56.7	14.7	2.1	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)