

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: P455117

Luminaire Tested: **GALN-SA6B-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455117  
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-SA6B-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA 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: 30662 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

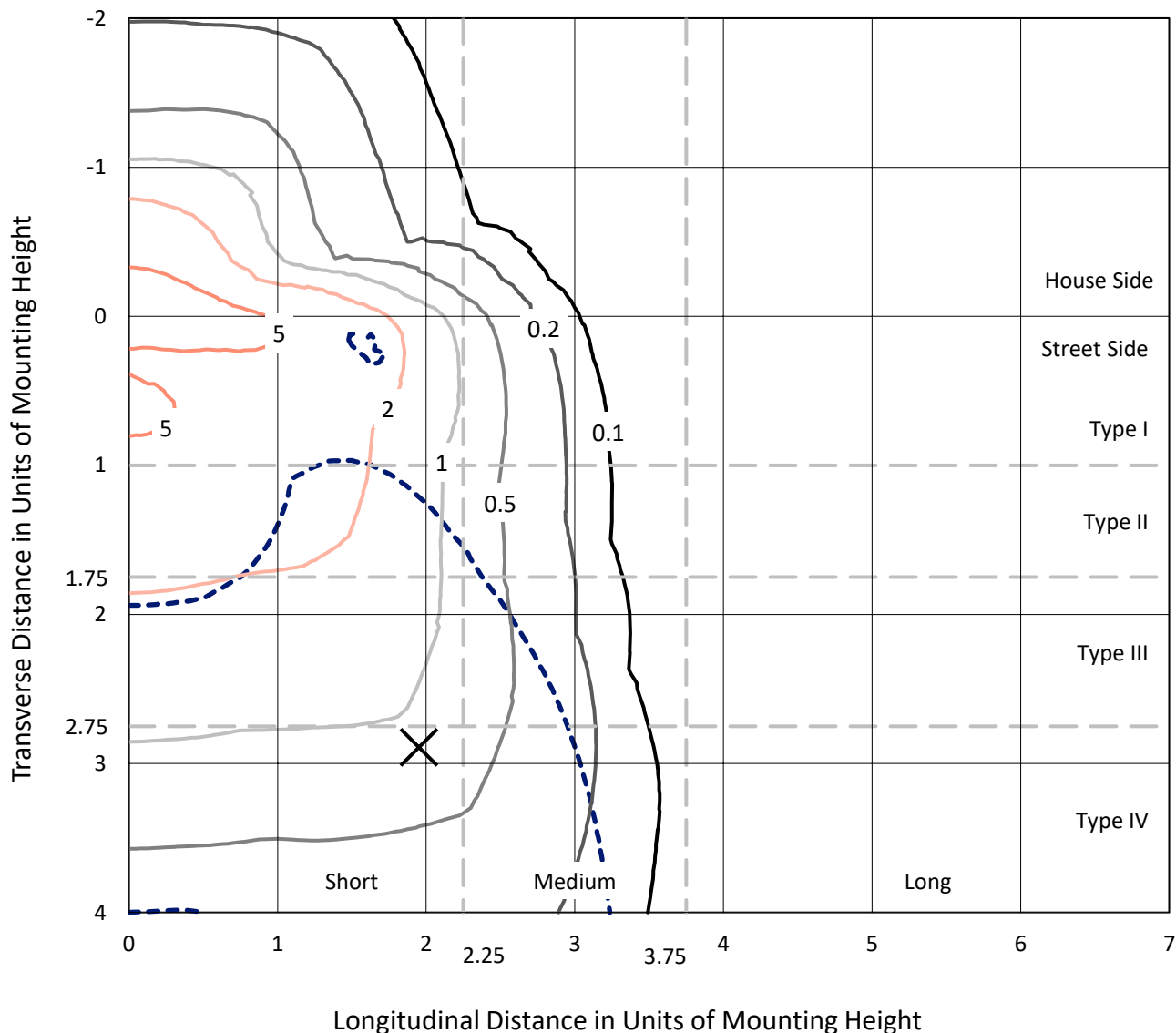
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

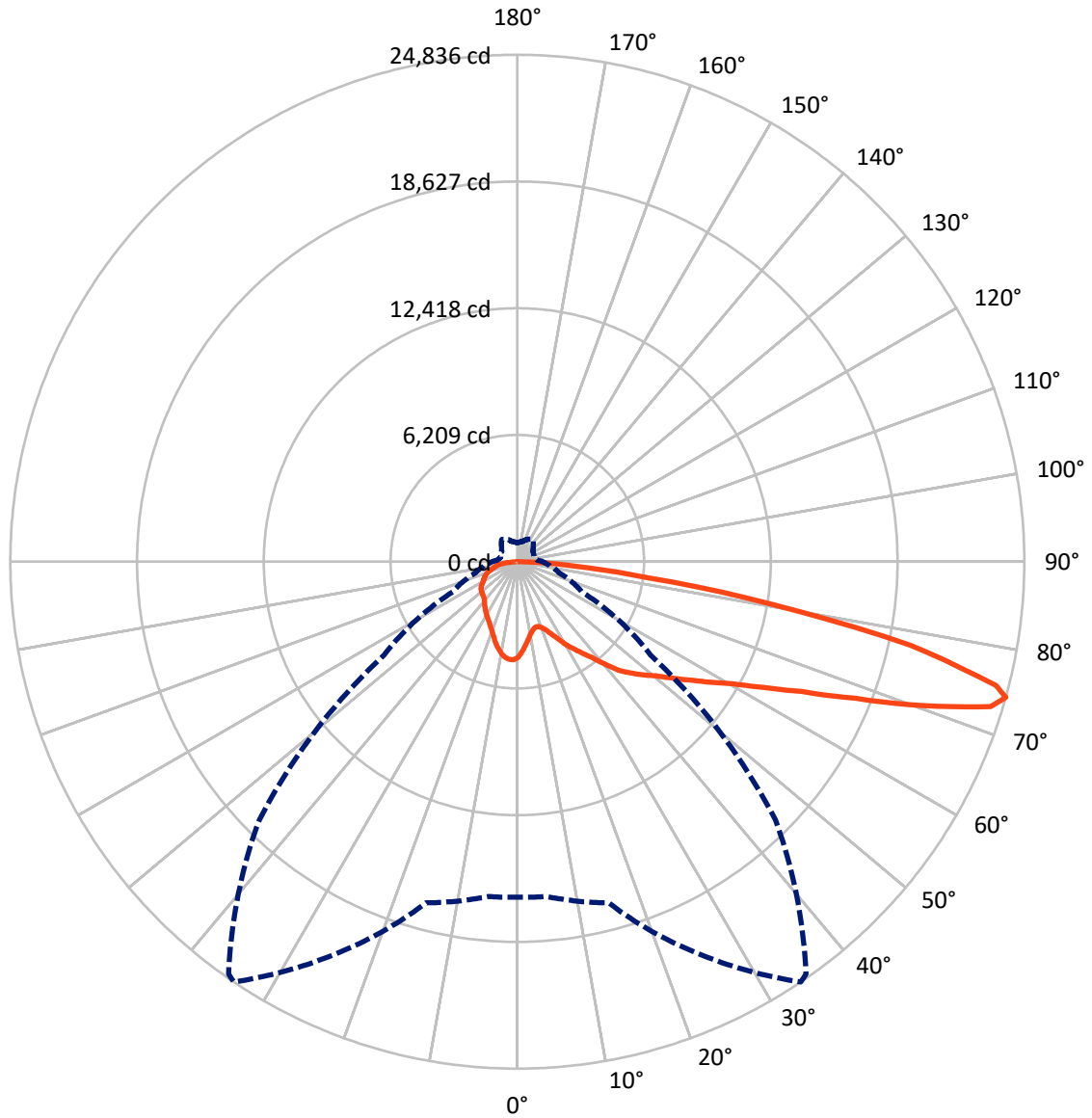
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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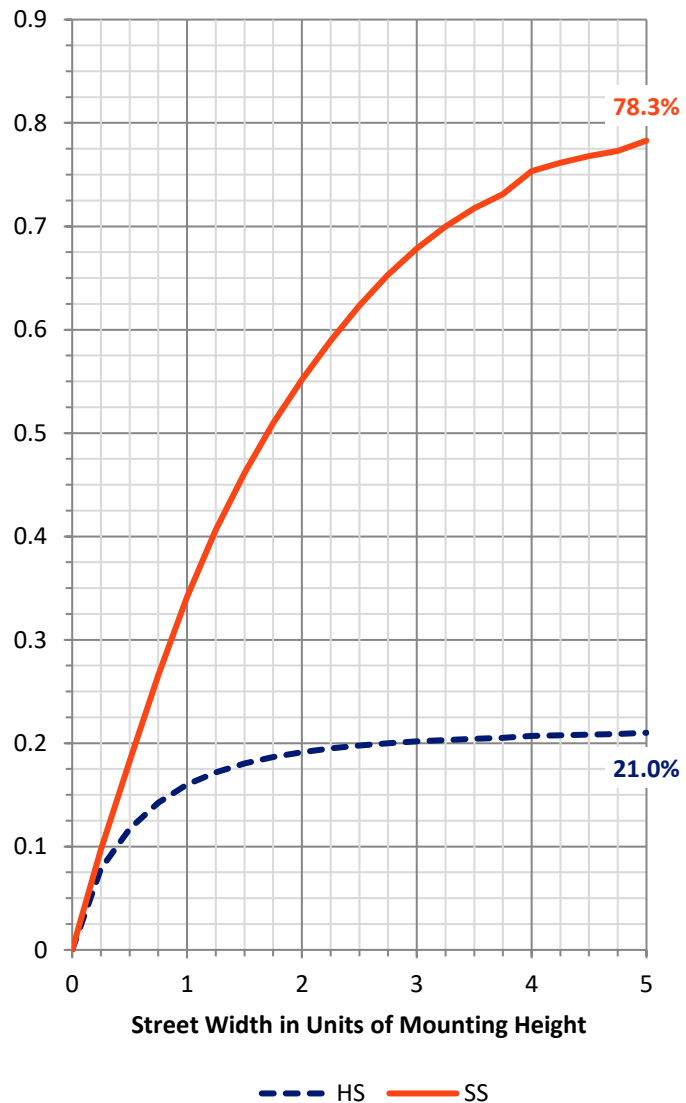
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6525.1	0.0	6525.1
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	24136.9	0.0	24136.9
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	30662.0	0.0	30662.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.8	1.4
10°-20°	1165.5	3.8
20°-30°	1921.6	6.3
30°-40°	2878.3	9.4
40°-50°	4184.3	13.6
50°-60°	5844.5	19.1
60°-70°	7317.0	23.9
70°-80°	6050.6	19.7
80°-90°	874.3	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°	30662.0	100.0
0°-180°	30662.0	100.0



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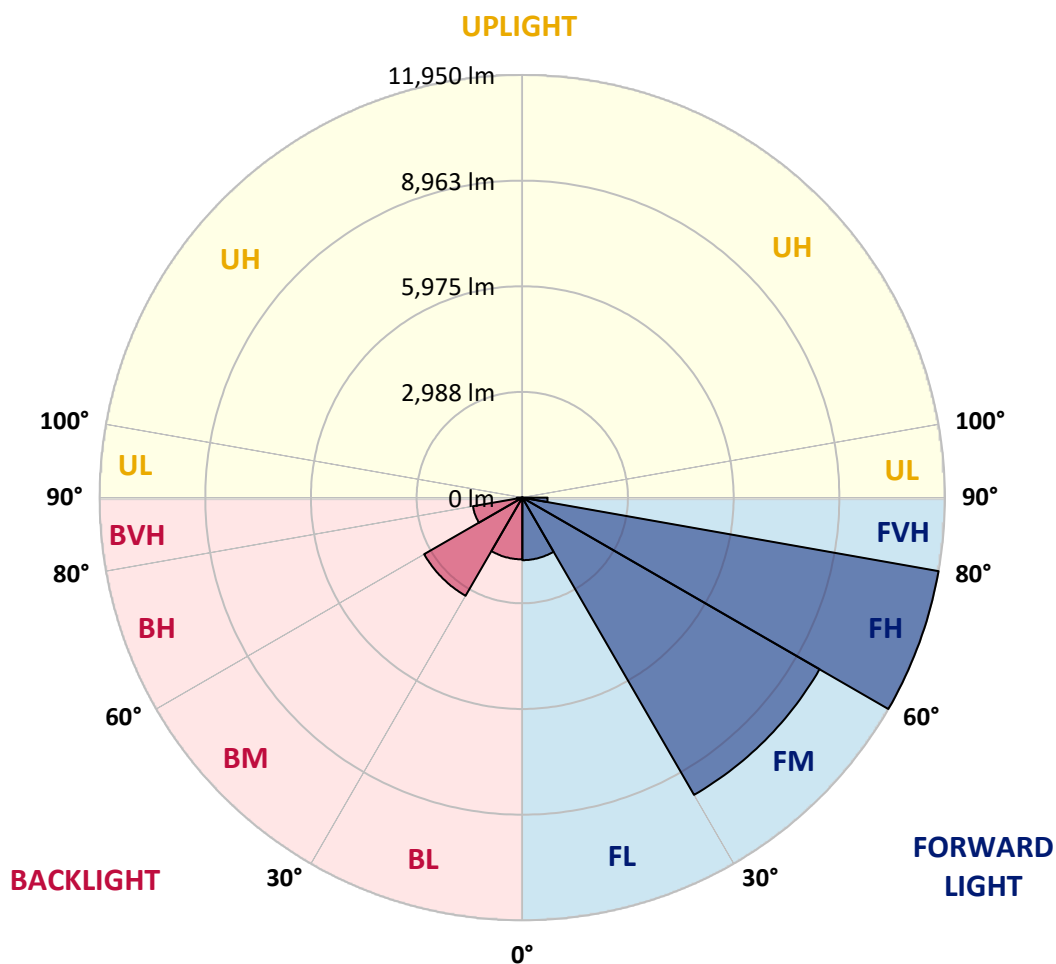
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1767.5	5.8			
FM	(30°-60°)	9702.7	31.6			
FH	(60°-80°)	11950.4	39.0			G4/12000
FVH	(80°-90°)	716.2	2.3			G4/750
BL	(0°-30°)	1745.4	5.7	B3/2500		
BM	(30°-60°)	3204.5	10.5	B3/5000		
BH	(60°-80°)	1417.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	158.0	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5
2.5°	4326.5	4348.5	4360.4	4402.9	4413.1	4426.7	4462.4	4509.9	4571.1	4625.4	4673.0
5°	3966.3	4000.3	4020.7	4058.1	4131.1	4137.9	4233.0	4341.8	4465.8	4581.3	4676.4
7.5°	3624.9	3662.3	3679.3	3747.2	3844.0	3859.3	3998.6	4170.2	4377.4	4552.4	4698.5
10°	3368.4	3387.1	3424.5	3475.4	3590.9	3601.1	3782.9	4012.2	4280.6	4538.8	4735.8
12.5°	3229.1	3239.3	3247.8	3302.2	3416.0	3431.3	3621.5	3881.4	4204.2	4549.0	4797.0
15°	3249.5	3252.9	3215.5	3225.7	3317.5	3339.5	3528.1	3794.8	4156.6	4574.5	4888.7
17.5°	3421.1	3409.2	3317.5	3269.9	3334.5	3344.6	3509.4	3760.8	4134.5	4622.0	4983.8
20°	3691.2	3674.2	3516.2	3410.9	3448.3	3456.8	3570.6	3786.3	4156.6	4700.2	5131.6
22.5°	4027.5	4020.7	3781.2	3653.8	3652.1	3652.1	3711.6	3878.0	4222.8	4807.2	5286.2
25°	4498.0	4462.4	4149.8	3985.0	3939.2	3935.8	3929.0	4029.2	4307.8	4921.0	5469.7
27.5°	4980.4	4919.3	4640.7	4387.6	4289.1	4277.2	4233.0	4243.2	4416.5	5050.1	5678.6
30°	5413.6	5374.5	5112.9	4832.7	4715.5	4688.3	4566.0	4509.9	4598.2	5282.8	6011.5
32.5°	5744.8	5721.1	5517.2	5262.4	5089.2	5084.1	4905.7	4859.8	4881.9	5564.8	6392.0
35°	6013.2	6021.7	5918.1	5697.3	5498.5	5469.7	5350.7	5293.0	5228.4	5972.5	6871.0
37.5°	6380.1	6398.8	6392.0	6201.8	5958.9	5965.7	5938.5	5843.4	5671.8	6427.7	7402.7
40°	6784.4	6798.0	6796.3	6723.3	6595.9	6602.7	6592.5	6483.7	6227.3	7006.9	7993.8
42.5°	7343.3	7278.7	7110.6	7183.6	7258.3	7290.6	7360.3	7256.6	6905.0	7625.2	8549.3
45°	7968.4	7846.1	7465.6	7499.5	7776.4	7837.6	8221.5	8078.8	7640.5	8335.3	9203.3
47.5°	8362.5	8241.9	7920.8	7914.0	8280.9	8340.4	9019.8	8967.2	8309.8	9101.4	10001.7
50°	8714.1	8697.1	8335.3	8421.9	8780.3	8868.7	9889.5	9840.3	8977.4	10005.1	10871.4
52.5°	9235.6	9098.0	8809.2	8987.6	9461.5	9577.0	10752.5	10608.1	9590.6	10803.4	11715.6
55°	9470.0	9437.7	9420.7	9575.3	10225.9	10309.1	11591.6	11260.4	10113.8	11479.5	12357.7
57.5°	10096.8	10037.3	10205.5	10310.8	11126.2	11253.6	12468.1	11941.5	10572.4	12016.3	12670.2
60°	10908.7	10876.5	11031.0	11221.3	12131.8	12325.4	13466.9	12522.5	10941.0	12286.3	12498.7
62.5°	12121.6	12118.2	12089.3	12497.0	13556.9	13735.3	14613.5	13088.1	10998.8	12084.2	11612.0
65°	13861.0	13799.8	13548.4	13993.5	15330.3	15539.3	15807.6	13404.1	10650.5	11046.3	9777.4
67.5°	15680.2	15676.8	15473.0	16050.5	17876.6	18092.3	17300.8	13334.4	9684.0	8948.5	6944.1
70°	17188.6	17115.6	17375.5	18914.5	21129.5	21379.2	18607.0	12514.0	7713.6	5909.6	4126.0
72.5°	17550.5	17553.9	18094.0	21122.7	24253.3	24292.4	19077.5	10142.6	5162.2	3259.7	2063.9
74°	16436.1	16465.0	17302.5	21233.1	24836.0	24659.3	17874.9	7971.8	3490.7	2128.4	1488.0
75°	15002.5	14820.7	16031.9	20497.6	24231.3	24041.0	16466.7	6397.1	2663.5	1700.3	1302.9
77.5°	8021.0	8206.2	10074.7	15296.3	19685.7	19466.5	11165.2	3067.8	1438.8	1184.0	937.7
80°	2855.4	3149.3	4426.7	8004.0	12621.0	12688.9	5328.7	1406.5	1012.4	873.1	662.5
82.5°	1165.3	1197.5	1900.8	3551.9	6409.0	6470.2	2176.0	835.7	723.6	601.3	395.8
85°	455.2	468.8	840.8	1596.7	2734.8	2913.2	752.5	441.6	445.0	344.8	202.1
87.5°	152.9	173.3	344.8	531.7	929.2	910.5	219.1	130.8	159.7	149.5	62.9
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°	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5	4681.5
2.5°	4696.8	4729.0	4751.1	4774.9	4797.0	4803.8	4798.7	4814.0	4815.7	4817.4	4819.1
5°	4723.9	4768.1	4810.6	4834.4	4844.6	4836.1	4807.2	4791.9	4778.3	4768.1	4771.5
7.5°	4761.3	4824.2	4863.2	4873.4	4846.3	4807.2	4735.8	4679.8	4644.1	4620.3	4618.6
10°	4819.1	4880.2	4912.5	4883.6	4808.9	4713.8	4601.6	4496.3	4416.5	4392.7	4391.0
12.5°	4892.1	4961.8	4960.1	4875.1	4744.3	4574.5	4392.7	4270.4	4161.7	4107.3	4129.4
15°	4987.2	5039.9	4990.6	4837.8	4630.5	4397.8	4173.6	4007.1	3884.8	3827.1	3830.5
17.5°	5097.7	5143.5	5012.7	4771.5	4470.8	4171.9	3912.0	3754.0	3657.2	3614.7	3611.3
20°	5235.2	5248.8	5012.7	4656.0	4265.3	3908.6	3660.6	3550.2	3495.8	3473.7	3480.5
22.5°	5383.0	5355.8	4985.5	4492.9	3995.2	3633.4	3466.9	3417.7	3390.5	3387.1	3390.5
25°	5549.5	5473.1	4929.5	4272.1	3713.3	3395.6	3298.8	3307.3	3312.4	3312.4	3324.3
27.5°	5753.3	5600.5	4836.1	3993.5	3383.7	3174.8	3147.6	3207.1	3234.2	3239.3	3247.8
30°	6021.7	5739.7	4681.5	3645.3	3103.4	2976.0	3023.6	3103.4	3134.0	3152.7	3149.3
32.5°	6341.1	5892.6	4472.5	3297.1	2877.5	2836.7	2894.5	2976.0	3010.0	3020.2	3006.6
35°	6716.5	6065.9	4197.4	2970.9	2680.5	2704.3	2772.2	2797.7	2828.3	2828.3	2835.0
37.5°	7120.7	6205.2	3861.0	2672.0	2527.6	2614.2	2663.5	2639.7	2626.1	2609.1	2617.6
40°	7531.8	6308.8	3424.5	2376.4	2374.7	2520.8	2534.4	2466.4	2412.1	2395.1	2386.6
42.5°	7890.2	6373.3	3030.4	2147.1	2230.3	2429.1	2439.3	2330.5	2243.9	2193.0	2176.0
45°	8313.2	6448.1	2644.8	1956.8	2096.1	2356.0	2381.5	2235.4	2108.0	2001.0	1973.8
47.5°	8892.4	6617.9	2340.7	1809.1	1999.3	2310.2	2345.8	2157.3	1989.1	1849.8	1827.7
50°	9546.4	6850.7	2104.6	1708.8	1924.6	2269.4	2313.6	2077.4	1878.7	1724.1	1707.1
52.5°	10146.0	6976.4	1900.8	1618.8	1851.5	2194.7	2271.1	2019.7	1770.0	1598.4	1583.1
55°	10473.9	6772.5	1700.3	1530.5	1751.3	2097.8	2211.6	1939.9	1664.7	1532.2	1510.1
57.5°	10518.0	6351.3	1518.6	1435.4	1646.0	1978.9	2101.2	1843.0	1596.7	1486.3	1467.6
60°	10176.6	5722.8	1377.6	1357.2	1539.0	1844.7	1977.2	1758.1	1527.1	1435.4	1416.7
62.5°	9327.3	5039.9	1279.1	1285.9	1430.3	1703.7	1885.5	1676.6	1460.8	1379.3	1362.3
65°	7866.5	4160.0	1184.0	1212.8	1333.4	1593.3	1802.3	1608.6	1394.6	1336.8	1321.6
67.5°	5464.6	3003.2	1105.8	1136.4	1241.7	1481.2	1705.4	1535.6	1319.9	1289.3	1265.5
70°	3025.3	1848.1	1014.1	1049.8	1146.6	1355.5	1596.7	1425.2	1211.1	1197.5	1163.6
72.5°	1589.9	1177.2	910.5	949.5	1017.5	1194.2	1430.3	1304.6	1104.1	1046.4	1002.2
74°	1241.7	964.8	840.8	881.6	927.5	1099.0	1331.7	1217.9	1027.7	959.7	925.8
75°	1082.0	859.5	781.4	834.0	874.8	1034.5	1255.3	1156.8	985.2	920.7	890.1
77.5°	764.4	643.8	638.7	701.5	723.6	907.1	1131.3	1053.2	878.2	810.3	781.4
80°	536.8	482.4	506.2	545.3	575.8	801.8	1049.8	910.5	720.2	640.4	630.2
82.5°	349.9	315.9	361.8	397.5	407.7	591.1	847.6	691.4	524.9	426.4	395.8
85°	161.4	158.0	207.2	202.1	200.4	288.8	502.8	404.3	302.4	225.9	212.3
87.5°	40.8	39.1	51.0	42.5	51.0	44.2	45.9	11.9	1.7	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)