

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: P453717

Luminaire Tested: **GALN-SA4D-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4D-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28029 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

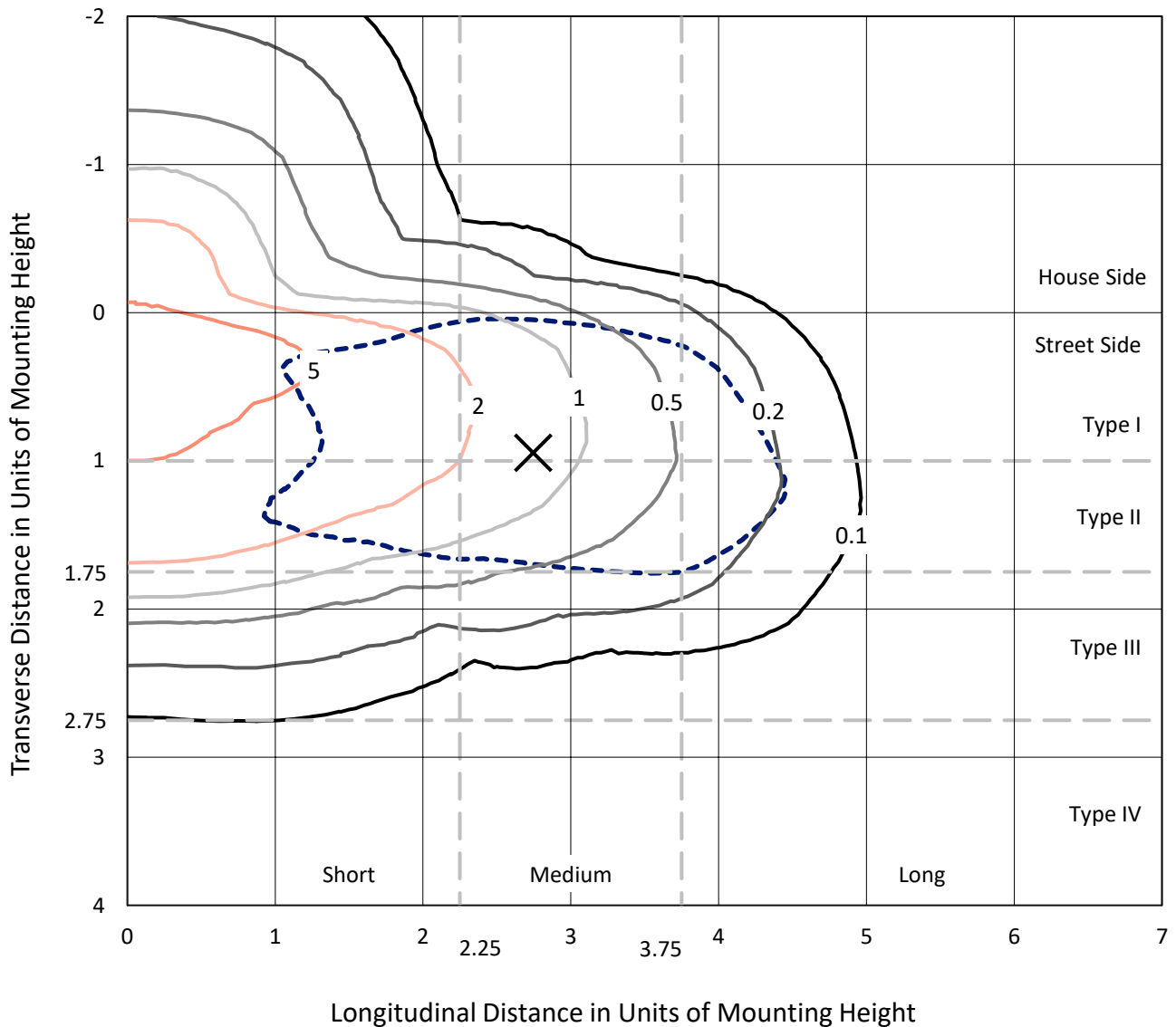
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

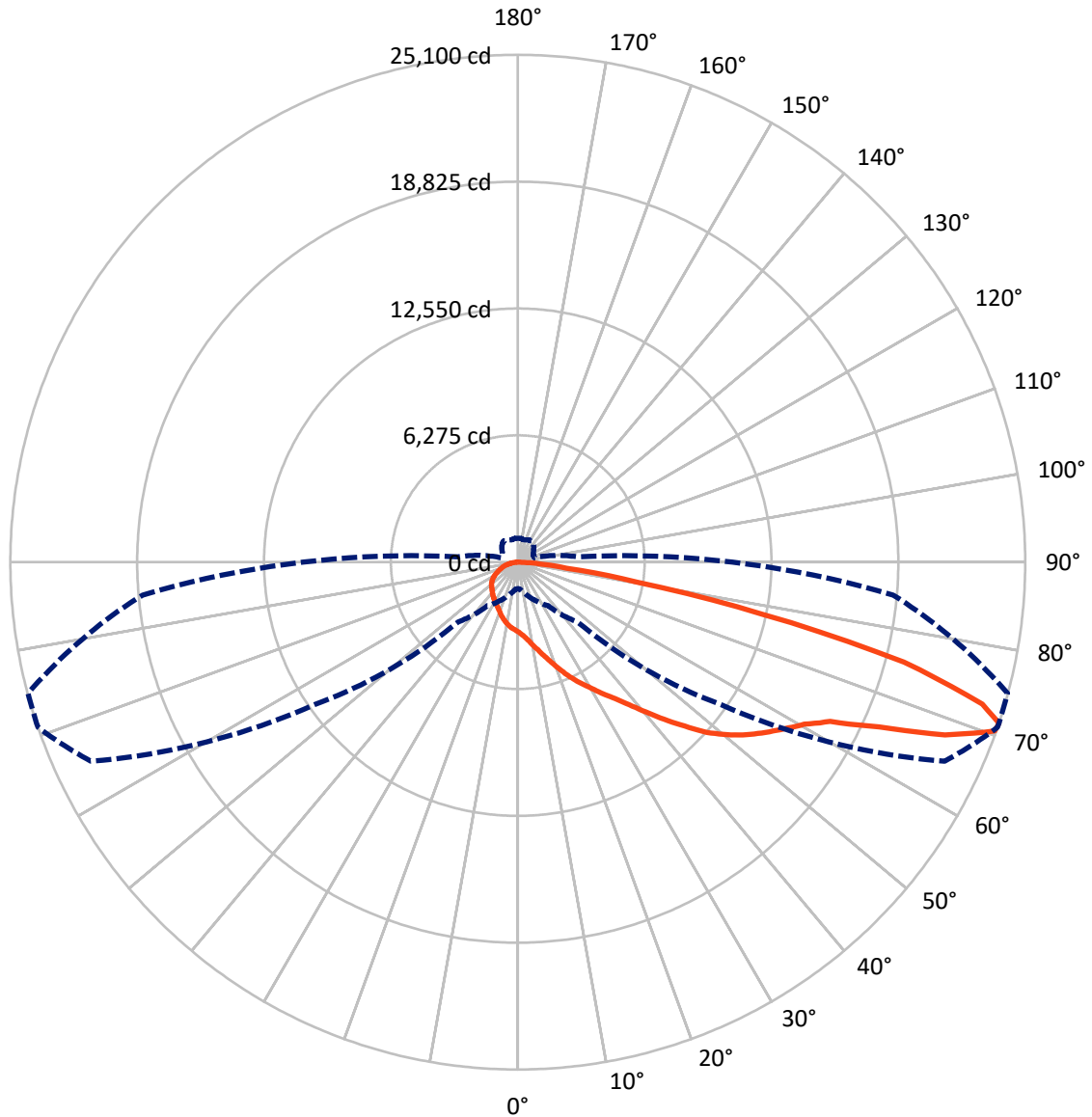
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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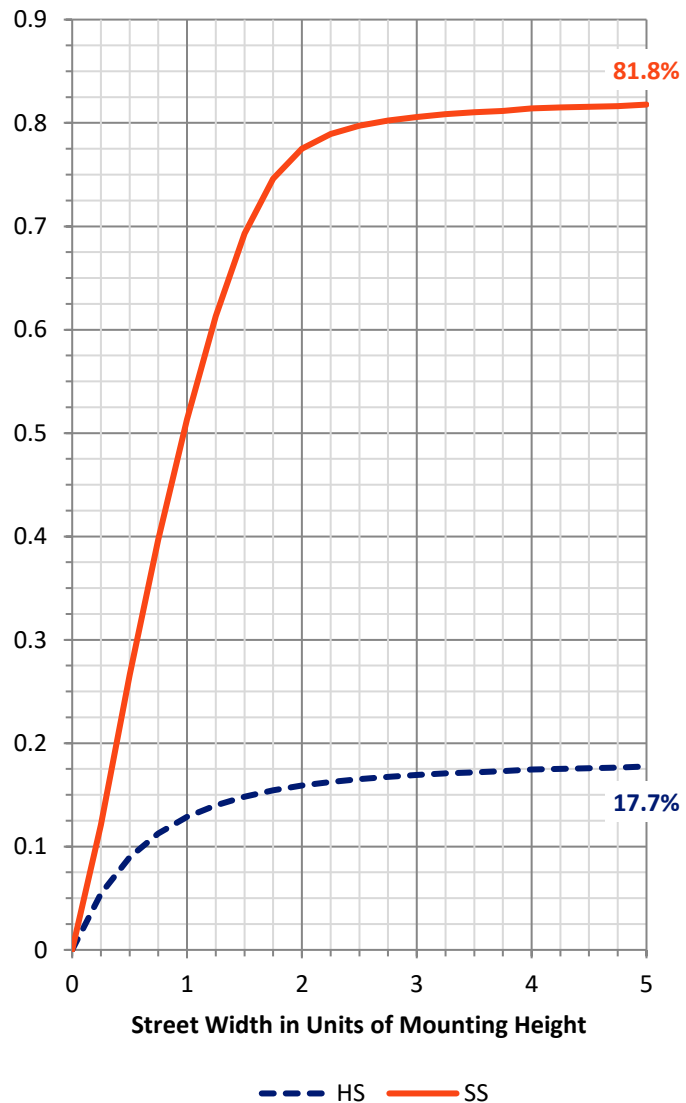
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5040.9	0.0	5040.9
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	22988.1	0.0	22988.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	28029.0	0.0	28029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.4	1.2
10°-20°	1122.2	4.0
20°-30°	1961.1	7.0
30°-40°	2916.9	10.4
40°-50°	4297.6	15.3
50°-60°	6016.8	21.5
60°-70°	6729.6	24.0
70°-80°	4110.7	14.7
80°-90°	528.8	1.9
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°	28029.0	100.0
0°-180°	28029.0	100.0

**Coefficient of Utilization**



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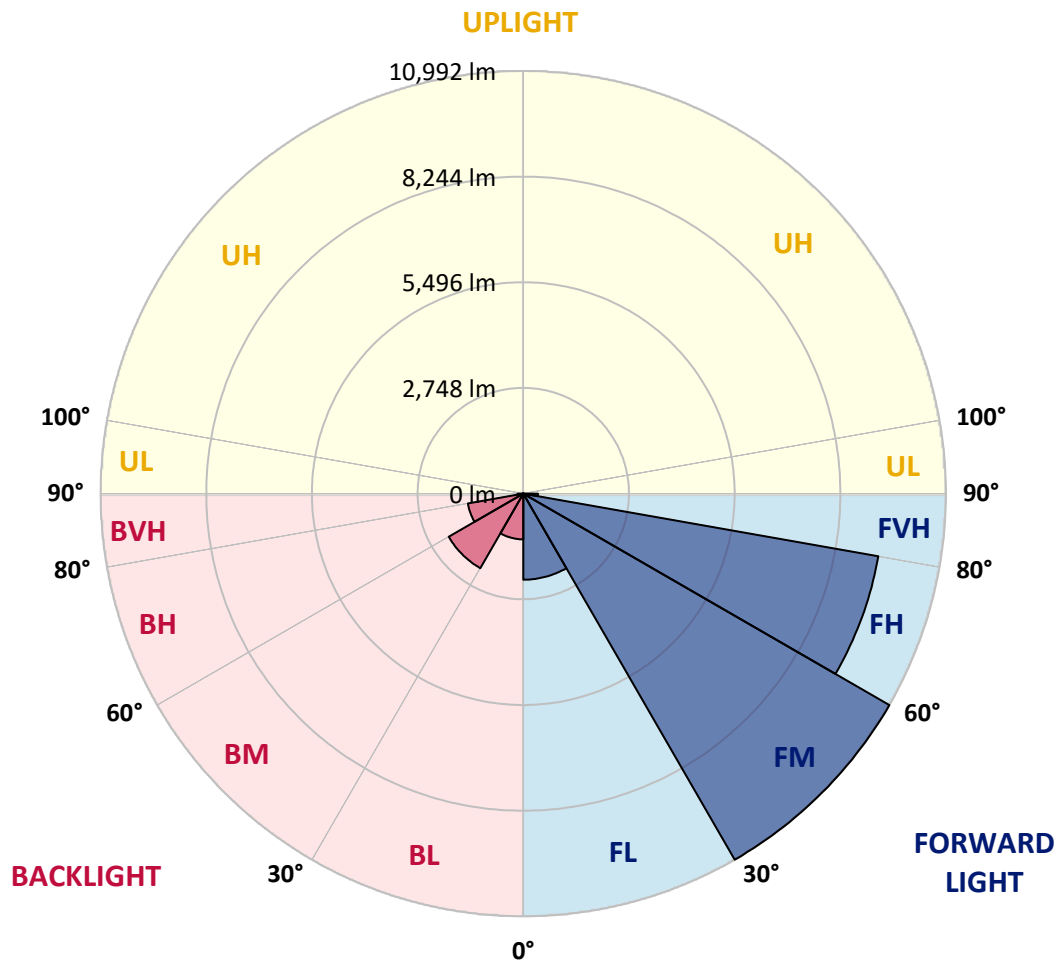
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2239.5	8.0			
FM	(30°-60°)	10992.4	39.2			
FH	(60°-80°)	9375.6	33.4			G4/12000
FVH	(80°-90°)	380.5	1.4			G3/500
BL	(0°-30°)	1189.1	4.2	B3/2500		
BM	(30°-60°)	2238.9	8.0	B2/2500		
BH	(60°-80°)	1464.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	148.3	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0
2.5°	3819.0	3800.5	3802.0	3775.8	3742.0	3705.0	3652.6	3606.4	3569.4	3547.8	3484.7
5°	4231.8	4213.4	4190.2	4133.2	4108.6	4017.7	3902.2	3797.4	3717.3	3672.6	3546.3
7.5°	4566.1	4561.5	4555.4	4523.0	4459.8	4333.5	4234.9	4053.1	3934.5	3849.8	3634.1
10°	4772.6	4780.3	4784.9	4791.1	4764.9	4698.6	4563.1	4333.5	4182.5	4074.7	3748.1
12.5°	4877.3	4885.0	4911.2	4968.2	5003.6	4995.9	4885.0	4660.1	4452.1	4310.4	3869.8
15°	4942.0	4954.3	5000.6	5076.1	5194.7	5270.2	5216.2	5008.3	4780.3	4612.4	4014.6
17.5°	5012.9	5026.8	5077.6	5185.4	5341.0	5504.3	5562.9	5384.2	5136.1	4935.9	4176.4
20°	5052.9	5071.4	5143.8	5285.6	5467.3	5704.6	5898.7	5804.7	5533.6	5311.8	4362.8
22.5°	5117.6	5133.1	5194.7	5345.6	5562.9	5860.2	6234.5	6214.5	5975.7	5689.2	4567.7
25°	5293.3	5317.9	5348.7	5439.6	5649.1	6018.9	6513.4	6652.0	6404.0	6083.6	4755.6
27.5°	5624.5	5644.5	5643.0	5655.3	5773.9	6156.0	6755.2	7084.9	6829.2	6482.6	4937.4
30°	6001.9	6009.6	6015.8	5988.0	6014.2	6296.2	6977.1	7513.2	7257.4	6892.3	5096.1
32.5°	6461.0	6476.4	6424.0	6353.2	6331.6	6504.1	7160.4	7941.4	7764.3	7308.3	5253.2
35°	7003.3	7043.3	6937.0	6812.2	6724.4	6803.0	7406.9	8379.0	8283.4	7839.8	5461.2
37.5°	7622.5	7671.8	7573.3	7328.3	7203.5	7225.1	7728.8	8919.7	8939.7	8445.2	5770.8
40°	8129.4	8194.1	8197.2	7850.5	7661.1	7685.7	8137.1	9502.0	9731.5	9193.9	6135.9
42.5°	8463.7	8526.8	8593.1	8389.7	8191.0	8331.2	8613.1	10133.6	10622.0	10102.8	6645.9
45°	8830.3	8887.3	8924.3	8831.9	8720.9	9084.5	9187.7	10805.3	11570.9	11118.0	7203.5
47.5°	9255.5	9318.7	9354.1	9266.3	9224.7	9745.4	9807.0	11432.3	12584.6	12104.0	7819.7
50°	9822.4	9870.2	9851.7	9796.2	9787.0	10252.2	10401.7	12019.2	13421.1	13165.4	8459.1
52.5°	10528.0	10585.0	10605.0	10526.5	10491.0	10614.3	10880.8	12553.8	14182.1	14077.4	9141.5
55°	10954.7	11045.6	11350.6	11473.9	11558.6	11082.6	11396.9	13143.8	14864.6	15038.7	9874.8
57.5°	10407.8	10524.9	11207.4	11823.6	12620.0	12253.4	12128.6	13760.0	15547.0	15970.7	10752.9
60°	9073.7	9099.9	9979.6	11114.9	12717.1	13758.5	13655.3	14739.8	16286.5	16910.4	11909.8
62.5°	6294.6	6350.1	7389.9	9201.6	11518.6	14300.8	16252.6	16431.3	17346.4	18316.9	13606.0
65°	3245.9	3173.5	4120.9	5783.2	8684.0	13012.9	18357.0	19541.6	19644.9	20516.8	15993.8
67.5°	1998.1	2030.4	2474.1	3376.8	5134.6	9457.3	18136.7	23342.1	22798.3	23217.4	18210.6
70°	1500.5	1540.5	1845.6	2310.8	3130.4	5407.3	14585.8	24263.4	25022.9	24915.0	18885.4
71°	1304.8	1346.4	1663.8	2102.8	2629.7	4173.3	12288.8	23299.0	25099.9	25081.4	18631.2
72.5°	1112.3	1138.5	1386.5	1780.9	2216.8	2925.5	9232.4	20895.8	24029.2	24643.9	17723.8
75°	873.5	893.5	1004.4	1358.7	1745.4	1796.3	4954.3	15665.7	19735.7	20906.6	14755.2
77.5°	711.7	725.6	782.6	1009.0	1346.4	1272.5	2598.9	10196.8	12364.3	13542.8	8691.7
80°	565.4	580.8	614.7	684.0	1009.0	907.4	1240.1	5166.9	5972.6	5960.3	3469.3
82.5°	439.1	443.7	483.7	502.2	690.2	643.9	671.7	2187.6	2423.3	2503.4	1252.5
85°	277.3	291.2	428.3	385.1	412.9	377.4	331.2	868.9	1070.7	1055.3	500.7
87.5°	84.7	89.4	144.8	163.3	183.3	164.8	121.7	255.7	312.7	338.9	124.8
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°	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0	3440.0
2.5°	3460.0	3443.1	3383.0	3333.7	3287.5	3236.7	3193.5	3181.2	3170.4	3165.8	3164.3
5°	3492.4	3441.5	3322.9	3225.9	3148.8	3078.0	3033.3	3013.3	2993.3	2993.3	2999.4
7.5°	3538.6	3446.2	3262.8	3118.0	3021.0	2954.7	2922.4	2919.3	2923.9	2928.6	2930.1
10°	3589.4	3443.1	3175.0	2994.8	2908.5	2877.7	2879.3	2905.4	2930.1	2948.6	2951.7
12.5°	3638.7	3424.6	3071.8	2879.3	2823.8	2830.0	2873.1	2931.6	2979.4	3005.6	3007.1
15°	3694.2	3395.3	2947.0	2769.9	2751.4	2799.1	2879.3	2968.6	3041.0	3084.1	3088.8
17.5°	3740.4	3346.0	2816.1	2663.6	2686.7	2774.5	2885.4	3001.0	3088.8	3142.7	3151.9
20°	3792.8	3282.9	2680.5	2561.9	2628.1	2746.8	2873.1	2997.9	3088.8	3141.1	3153.5
22.5°	3834.4	3193.5	2551.1	2478.7	2575.8	2712.9	2831.5	2931.6	3005.6	3033.3	3051.8
25°	3851.3	3081.1	2429.4	2410.9	2534.2	2657.4	2737.5	2794.5	2817.6	2814.6	2822.3
27.5°	3842.1	2951.7	2324.7	2357.0	2481.8	2571.1	2611.2	2606.6	2565.0	2526.5	2545.0
30°	3803.6	2797.6	2236.9	2301.6	2414.0	2463.3	2457.1	2397.1	2318.5	2246.1	2250.7
32.5°	3734.2	2631.2	2155.2	2238.4	2318.5	2340.1	2298.5	2219.9	2107.4	2013.5	1999.6
35°	3675.7	2472.6	2082.8	2166.0	2223.0	2212.2	2172.1	2070.5	1968.8	1885.6	1871.7
37.5°	3666.5	2337.0	2013.5	2084.3	2116.7	2101.3	2052.0	1965.7	1928.7	1865.6	1857.9
40°	3715.8	2241.5	1942.6	1998.1	2013.5	2001.2	1947.2	1897.9	1931.8	1916.4	1916.4
42.5°	3849.8	2190.6	1879.4	1911.8	1924.1	1933.4	1894.9	1853.3	1894.9	1824.0	1800.9
45°	4062.4	2192.2	1822.4	1827.1	1864.0	1896.4	1870.2	1808.6	1787.0	1645.3	1617.6
47.5°	4375.1	2244.6	1776.2	1747.0	1813.2	1867.1	1830.2	1740.8	1645.3	1551.3	1534.4
50°	4740.2	2338.5	1734.6	1663.8	1745.4	1830.2	1802.4	1697.7	1599.1	1542.1	1531.3
52.5°	5145.4	2457.1	1683.8	1571.3	1662.2	1813.2	1808.6	1691.5	1555.9	1517.4	1508.2
55°	5646.0	2574.2	1620.6	1463.5	1588.3	1799.3	1791.6	1640.7	1546.7	1519.0	1515.9
57.5°	6228.4	2743.7	1529.7	1354.1	1503.6	1742.3	1725.4	1609.9	1515.9	1495.9	1494.3
60°	7166.6	3007.1	1400.3	1254.0	1417.3	1642.2	1663.8	1557.5	1466.6	1462.0	1460.4
62.5°	8400.5	3376.8	1266.3	1150.8	1317.2	1512.8	1574.4	1486.6	1414.2	1437.3	1440.4
65°	10104.3	3688.0	1127.7	1063.0	1206.2	1388.0	1489.7	1420.4	1355.7	1400.3	1400.3
67.5°	11215.1	3694.2	1001.3	972.1	1093.8	1283.3	1400.3	1341.8	1280.2	1355.7	1358.7
70°	10984.0	3236.7	896.6	876.6	984.4	1170.8	1301.7	1255.5	1184.7	1252.5	1227.8
71°	10611.2	2982.5	855.0	839.6	941.3	1116.9	1255.5	1217.0	1146.2	1190.8	1177.0
72.5°	10016.5	2589.6	787.2	790.3	876.6	1049.1	1190.8	1150.8	1079.9	1104.6	1099.9
75°	8466.8	2261.5	673.2	687.1	753.3	933.6	1061.4	1030.6	958.2	958.2	953.6
77.5°	5293.3	1580.6	559.2	566.9	639.3	799.5	912.0	885.8	816.5	793.4	787.2
80°	1975.0	816.5	437.5	446.8	491.4	630.1	754.9	730.2	659.3	633.2	608.5
82.5°	747.2	409.8	322.0	314.3	362.0	480.6	591.6	562.3	506.8	443.7	425.2
85°	281.9	203.4	197.2	191.0	212.6	285.0	366.6	360.5	301.9	257.3	252.6
87.5°	73.9	66.2	77.0	57.0	60.1	53.9	55.5	23.1	10.8	4.6	3.1
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)