

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: P452789

Luminaire Tested: **GALN-SA3D-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452789  
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-SA3D-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 21151 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

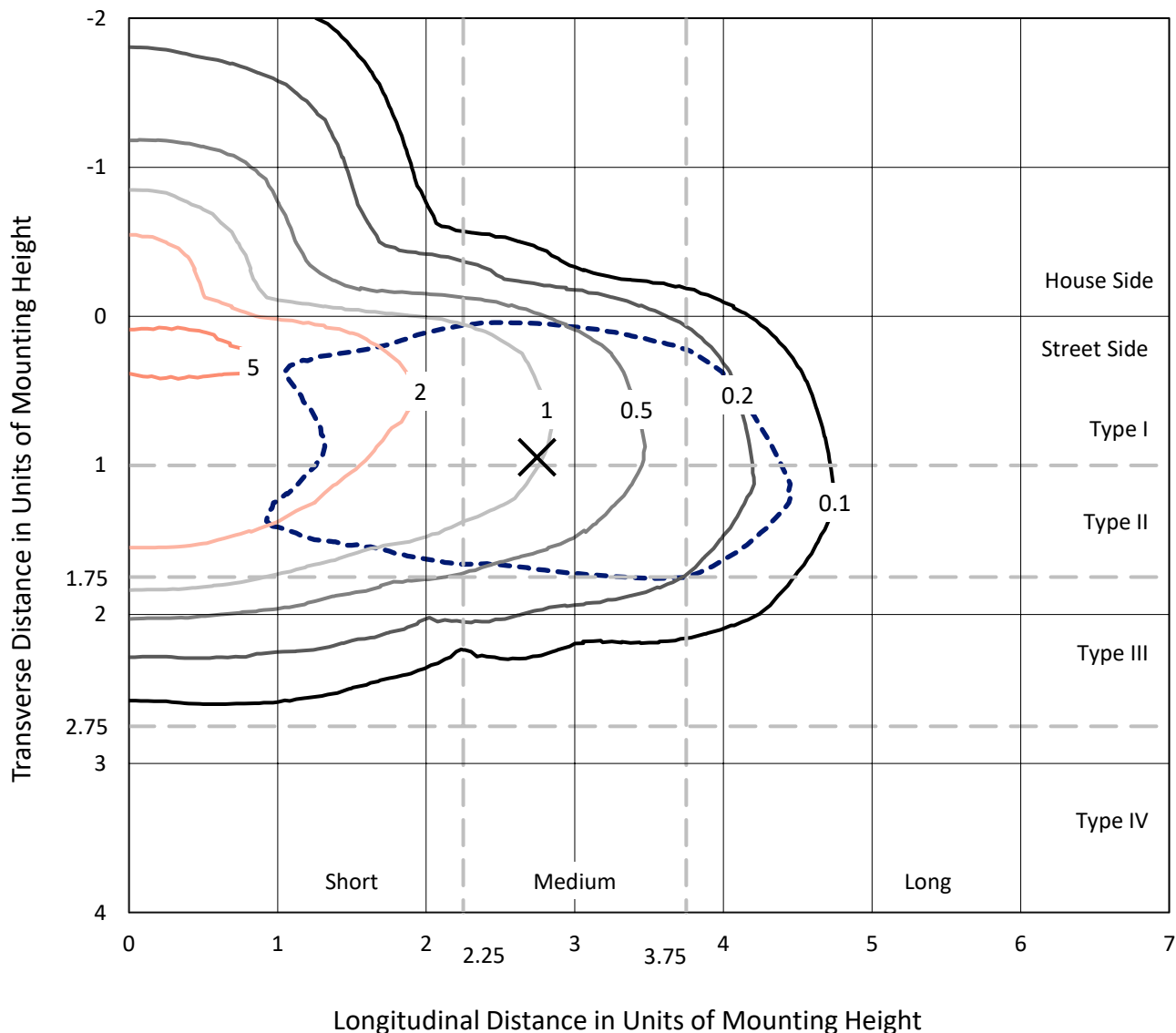
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

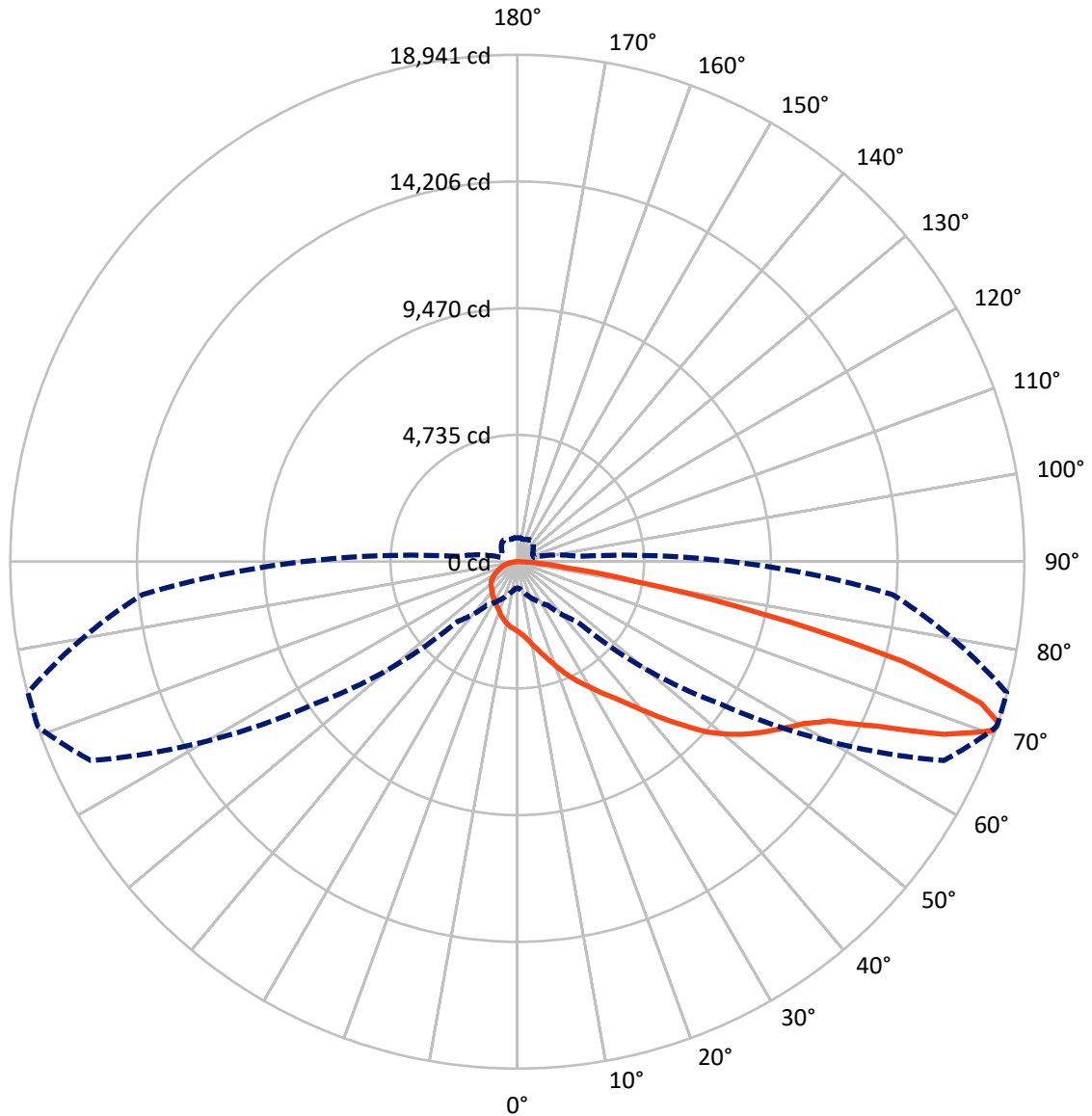
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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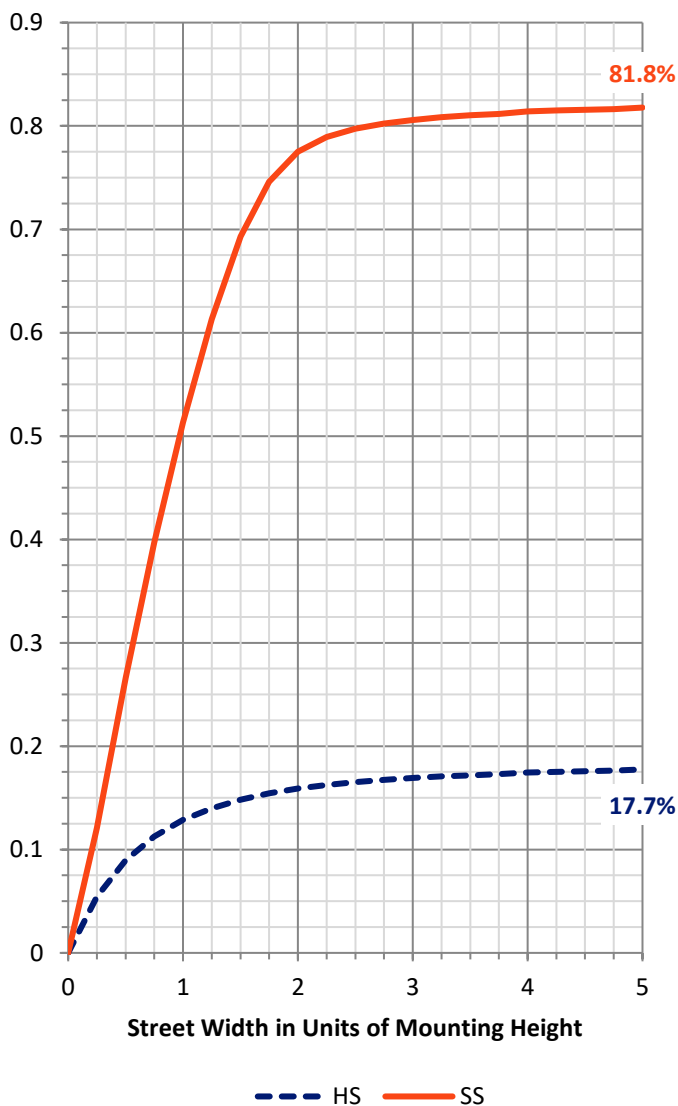
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3804.0	0.0	3804.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	17347.0	0.0	17347.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	21151.0	0.0	21151.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.6	1.2
10°-20°	846.8	4.0
20°-30°	1479.9	7.0
30°-40°	2201.1	10.4
40°-50°	3243.1	15.3
50°-60°	4540.3	21.5
60°-70°	5078.2	24.0
70°-80°	3102.0	14.7
80°-90°	399.0	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°	21151.0	100.0
0°-180°	21151.0	100.0

**Coefficient of Utilization**



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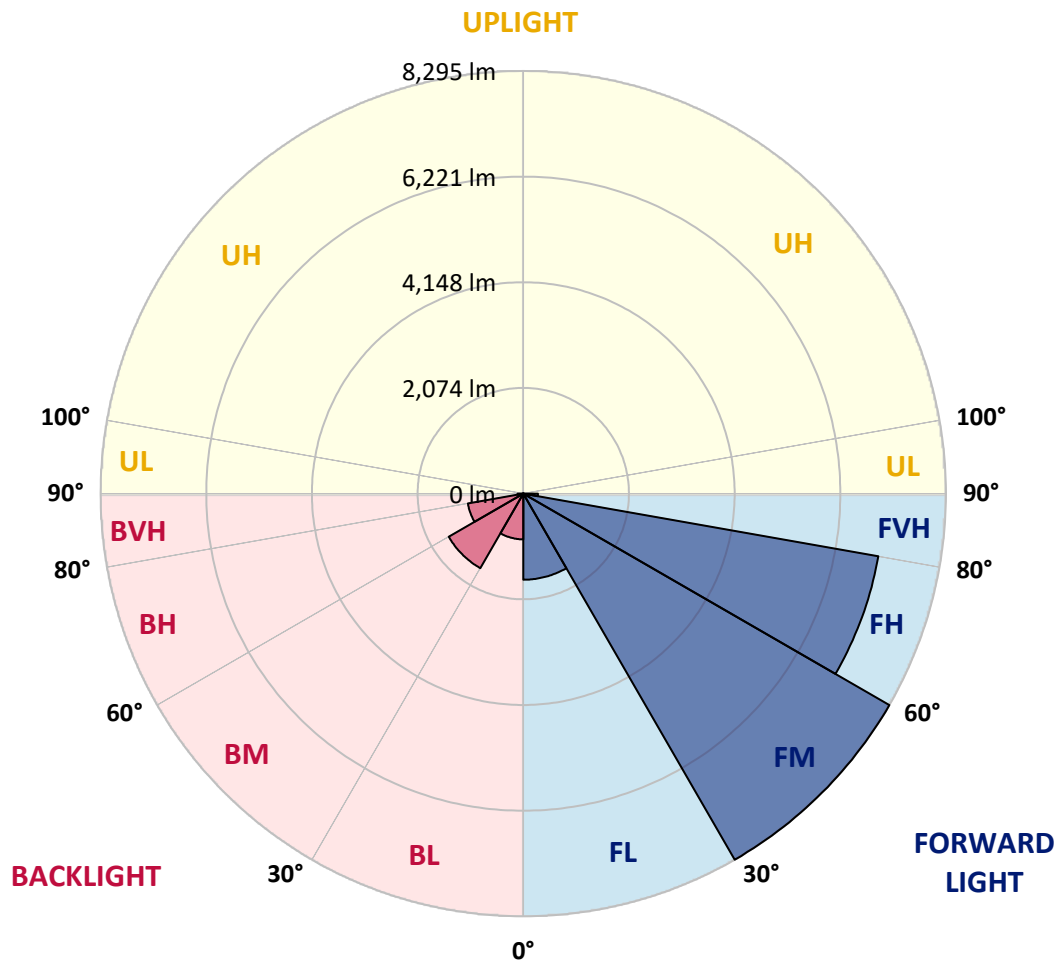
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.0	8.0			
FM	(30°-60°)	8295.0	39.2			
FH	(60°-80°)	7074.9	33.4			G3/7500
FVH	(80°-90°)	287.1	1.4			G3/500
BL	(0°-30°)	897.3	4.2	B2/1000		
BM	(30°-60°)	1689.5	8.0	B2/2500		
BH	(60°-80°)	1105.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	111.9	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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9
2.5°	2881.8	2867.9	2869.1	2849.3	2823.7	2795.8	2756.3	2721.4	2693.5	2677.2	2629.6
5°	3193.4	3179.4	3162.0	3119.0	3100.4	3031.8	2944.6	2865.6	2805.1	2771.4	2676.1
7.5°	3445.7	3442.2	3437.5	3413.1	3365.4	3270.1	3195.7	3058.5	2969.0	2905.1	2742.3
10°	3601.4	3607.2	3610.7	3615.4	3595.6	3545.6	3443.3	3270.1	3156.2	3074.8	2828.4
12.5°	3680.5	3686.3	3706.1	3749.1	3775.8	3770.0	3686.3	3516.6	3359.6	3252.7	2920.2
15°	3729.3	3738.6	3773.5	3830.4	3920.0	3976.9	3936.2	3779.3	3607.2	3480.5	3029.5
17.5°	3782.8	3793.2	3831.6	3913.0	4030.4	4153.6	4197.8	4062.9	3875.8	3724.7	3151.5
20°	3813.0	3827.0	3881.6	3988.5	4125.7	4304.7	4451.2	4380.3	4175.7	4008.3	3292.2
22.5°	3861.8	3873.5	3920.0	4033.9	4197.8	4422.2	4704.6	4689.5	4509.3	4293.1	3446.8
25°	3994.4	4013.0	4036.2	4104.8	4262.9	4541.9	4915.1	5019.7	4832.5	4590.7	3588.6
27.5°	4244.3	4259.4	4258.2	4267.5	4357.1	4645.4	5097.6	5346.3	5153.4	4891.8	3725.8
30°	4529.1	4534.9	4539.6	4518.6	4538.4	4751.1	5265.0	5669.5	5476.5	5201.0	3845.6
32.5°	4875.5	4887.2	4847.6	4794.2	4777.9	4908.1	5403.3	5992.7	5859.0	5514.9	3964.1
35°	5284.7	5315.0	5234.7	5140.6	5074.3	5133.6	5589.3	6322.9	6250.8	5916.0	4121.1
37.5°	5752.1	5789.3	5714.9	5530.0	5435.9	5452.1	5832.3	6730.9	6746.0	6372.8	4354.7
40°	6134.5	6183.4	6185.7	5924.1	5781.1	5799.7	6140.3	7170.3	7343.5	6937.8	4630.2
42.5°	6386.8	6434.5	6484.4	6331.0	6181.0	6286.8	6499.6	7646.9	8015.5	7623.7	5015.0
45°	6663.5	6706.5	6734.4	6664.6	6580.9	6855.3	6933.2	8153.8	8731.6	8389.8	5435.9
47.5°	6984.3	7032.0	7058.7	6992.5	6961.1	7354.0	7400.5	8626.9	9496.5	9133.8	5900.9
50°	7412.1	7448.2	7434.2	7392.4	7385.4	7736.5	7849.2	9069.8	10127.7	9934.7	6383.3
52.5°	7944.5	7987.6	8002.7	7943.4	7916.6	8009.6	8210.8	9473.2	10702.0	10622.9	6898.3
55°	8266.6	8335.1	8565.3	8658.3	8722.3	8363.0	8600.2	9918.5	11217.0	11348.3	7451.6
57.5°	7853.9	7942.2	8457.2	8922.2	9523.2	9246.5	9152.4	10383.5	11732.0	12051.7	8114.3
60°	6847.1	6866.9	7530.7	8387.5	9596.5	10382.3	10304.4	11122.8	12290.0	12760.8	8987.3
62.5°	4750.0	4791.8	5576.5	6943.6	8692.0	10791.5	12264.4	12399.3	13089.8	13822.2	10267.2
65°	2449.4	2394.8	3109.7	4364.0	6553.0	9819.7	13852.4	14746.3	14824.2	15482.2	12069.1
67.5°	1507.8	1532.2	1867.0	2548.2	3874.6	7136.6	13686.1	17614.2	17203.9	17520.1	13741.9
70°	1132.3	1162.5	1392.7	1743.8	2362.2	4080.4	11006.6	18309.4	18882.5	18801.2	14251.1
71°	984.6	1016.0	1255.5	1586.8	1984.4	3149.2	9273.3	17581.7	18940.7	18926.7	14059.3
72.5°	839.3	859.1	1046.3	1343.9	1672.8	2207.6	6966.9	15768.2	18132.7	18596.6	13374.6
75°	659.1	674.3	758.0	1025.3	1317.1	1355.5	3738.6	11821.5	14892.8	15776.3	11134.4
77.5°	537.1	547.5	590.6	761.4	1016.0	960.2	1961.1	7694.6	9330.2	10219.6	6558.8
80°	426.6	438.3	463.8	516.2	761.4	684.7	935.8	3899.0	4507.0	4497.7	2618.0
82.5°	331.3	334.8	365.0	379.0	520.8	485.9	506.9	1650.8	1828.6	1889.1	945.1
85°	209.3	219.7	323.2	290.6	311.6	284.8	249.9	655.7	807.9	796.3	377.8
87.5°	63.9	67.4	109.3	123.2	138.3	124.4	91.8	193.0	236.0	255.8	94.2
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°	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9	2595.9
2.5°	2611.0	2598.2	2552.9	2515.7	2480.8	2442.4	2409.9	2400.6	2392.4	2388.9	2387.8
5°	2635.4	2597.0	2507.5	2434.3	2376.2	2322.7	2289.0	2273.9	2258.7	2258.7	2263.4
7.5°	2670.3	2600.5	2462.2	2352.9	2279.7	2229.7	2205.3	2202.9	2206.4	2209.9	2211.1
10°	2708.6	2598.2	2395.9	2259.9	2194.8	2171.6	2172.7	2192.5	2211.1	2225.0	2227.4
12.5°	2745.8	2584.2	2318.0	2172.7	2130.9	2135.5	2168.1	2212.2	2248.3	2268.0	2269.2
15°	2787.7	2562.2	2223.9	2090.2	2076.2	2112.3	2172.7	2240.1	2294.8	2327.3	2330.8
17.5°	2822.6	2525.0	2125.1	2010.0	2027.4	2093.7	2177.4	2264.6	2330.8	2371.5	2378.5
20°	2862.1	2477.3	2022.8	1933.2	1983.2	2072.7	2168.1	2262.2	2330.8	2370.3	2379.6
22.5°	2893.5	2409.9	1925.1	1870.5	1943.7	2047.2	2136.7	2212.2	2268.0	2289.0	2302.9
25°	2906.3	2325.0	1833.3	1819.3	1912.3	2005.3	2065.8	2108.8	2126.2	2123.9	2129.7
27.5°	2899.3	2227.4	1754.2	1778.6	1872.8	1940.2	1970.4	1967.0	1935.6	1906.5	1920.5
30°	2870.2	2111.1	1688.0	1736.8	1821.6	1858.8	1854.2	1808.9	1749.6	1694.9	1698.4
32.5°	2817.9	1985.6	1626.3	1689.1	1749.6	1765.8	1734.5	1675.2	1590.3	1519.4	1508.9
35°	2773.7	1865.8	1571.7	1634.5	1677.5	1669.4	1639.1	1562.4	1485.7	1422.9	1412.4
37.5°	2766.8	1763.5	1519.4	1572.9	1597.3	1585.7	1548.5	1483.4	1455.5	1407.8	1402.0
40°	2804.0	1691.4	1465.9	1507.8	1519.4	1510.1	1469.4	1432.2	1457.8	1446.2	1446.2
42.5°	2905.1	1653.1	1418.3	1442.7	1452.0	1458.9	1429.9	1398.5	1429.9	1376.4	1359.0
45°	3065.5	1654.2	1375.2	1378.7	1406.6	1431.0	1411.3	1364.8	1348.5	1241.6	1220.6
47.5°	3301.5	1693.8	1340.4	1318.3	1368.3	1409.0	1381.1	1313.6	1241.6	1170.6	1157.9
50°	3577.0	1764.7	1309.0	1255.5	1317.1	1381.1	1360.1	1281.1	1206.7	1163.7	1155.5
52.5°	3882.8	1854.2	1270.6	1185.8	1254.3	1368.3	1364.8	1276.4	1174.1	1145.1	1138.1
55°	4260.6	1942.5	1223.0	1104.4	1198.5	1357.8	1352.0	1238.1	1167.2	1146.2	1143.9
57.5°	4700.0	2070.4	1154.4	1021.8	1134.6	1314.8	1302.0	1214.8	1143.9	1128.8	1127.6
60°	5408.0	2269.2	1056.7	946.3	1069.5	1239.2	1255.5	1175.3	1106.7	1103.2	1102.1
62.5°	6339.1	2548.2	955.6	868.4	993.9	1141.6	1188.1	1121.8	1067.2	1084.6	1086.9
65°	7624.9	2783.0	851.0	802.1	910.2	1047.4	1124.1	1071.8	1023.0	1056.7	1056.7
67.5°	8463.0	2787.7	755.6	733.5	825.4	968.4	1056.7	1012.5	966.0	1023.0	1025.3
70°	8288.6	2442.4	676.6	661.5	742.8	883.5	982.3	947.4	894.0	945.1	926.5
71°	8007.3	2250.6	645.2	633.6	710.3	842.8	947.4	918.4	864.9	898.6	888.2
72.5°	7558.6	1954.2	594.0	596.4	661.5	791.7	898.6	868.4	814.9	833.5	830.0
75°	6389.1	1706.6	508.0	518.5	568.5	704.5	801.0	777.7	723.1	723.1	719.6
77.5°	3994.4	1192.7	422.0	427.8	482.4	603.3	688.2	668.4	616.1	598.7	594.0
80°	1490.3	616.1	330.2	337.1	370.8	475.5	569.6	551.0	497.6	477.8	459.2
82.5°	563.8	309.2	243.0	237.2	273.2	362.7	446.4	424.3	382.5	334.8	320.9
85°	212.7	153.5	148.8	144.2	160.4	215.1	276.7	272.0	227.9	194.1	190.7
87.5°	55.8	50.0	58.1	43.0	45.3	40.7	41.9	17.4	8.1	3.5	2.3
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)