

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: P451662

Luminaire Tested: **GALN-SA2C-740-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14020 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

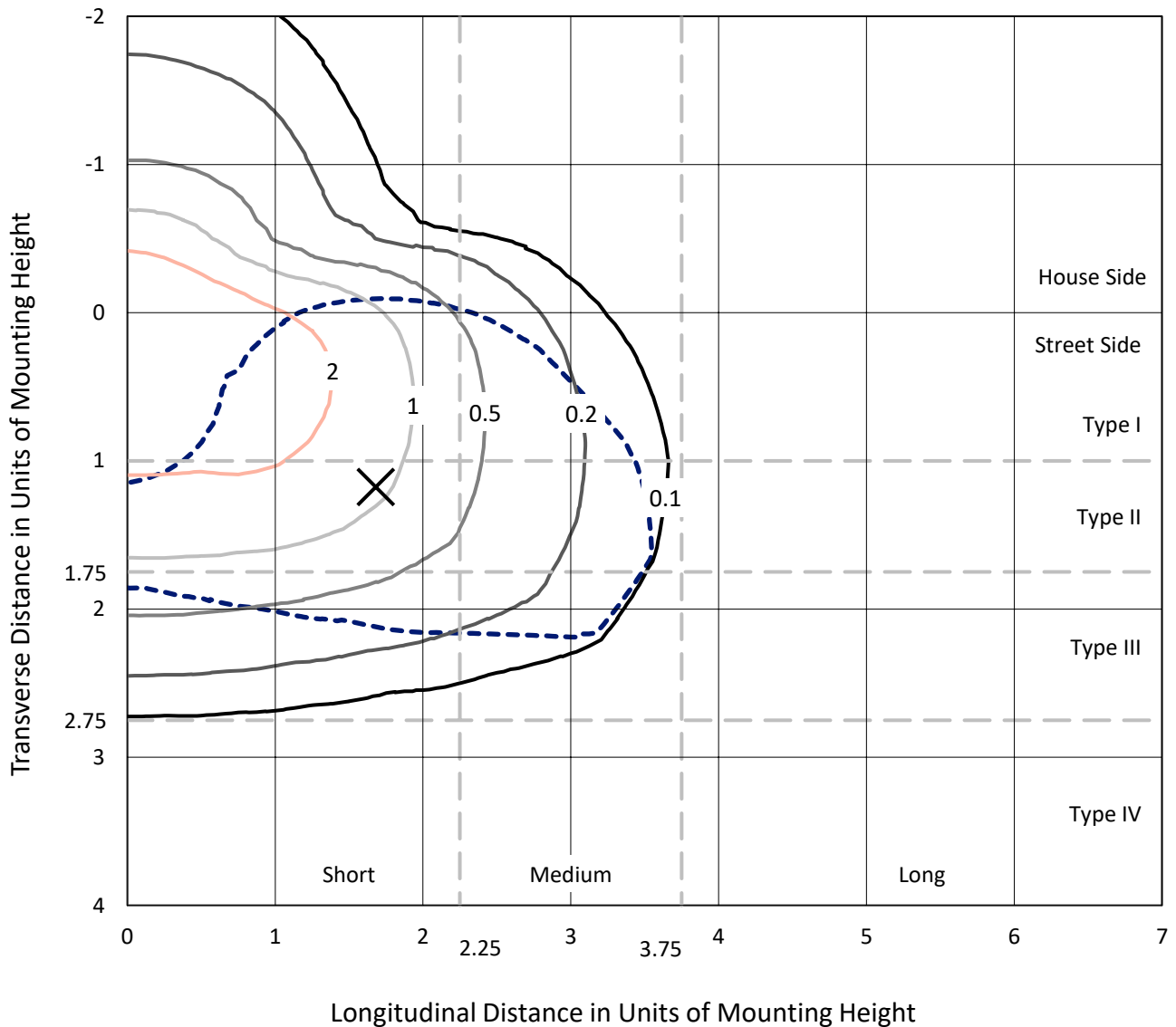
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

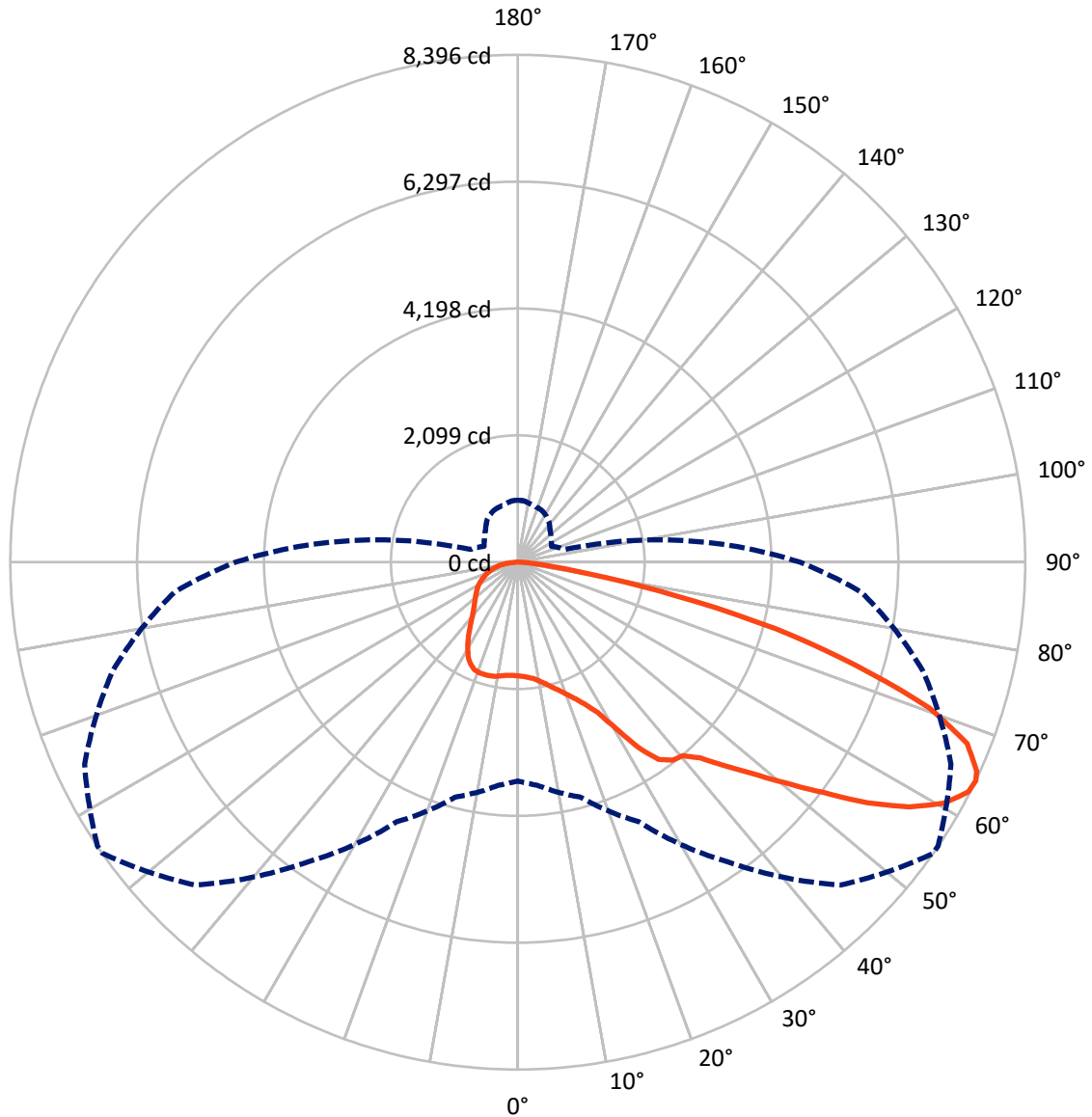
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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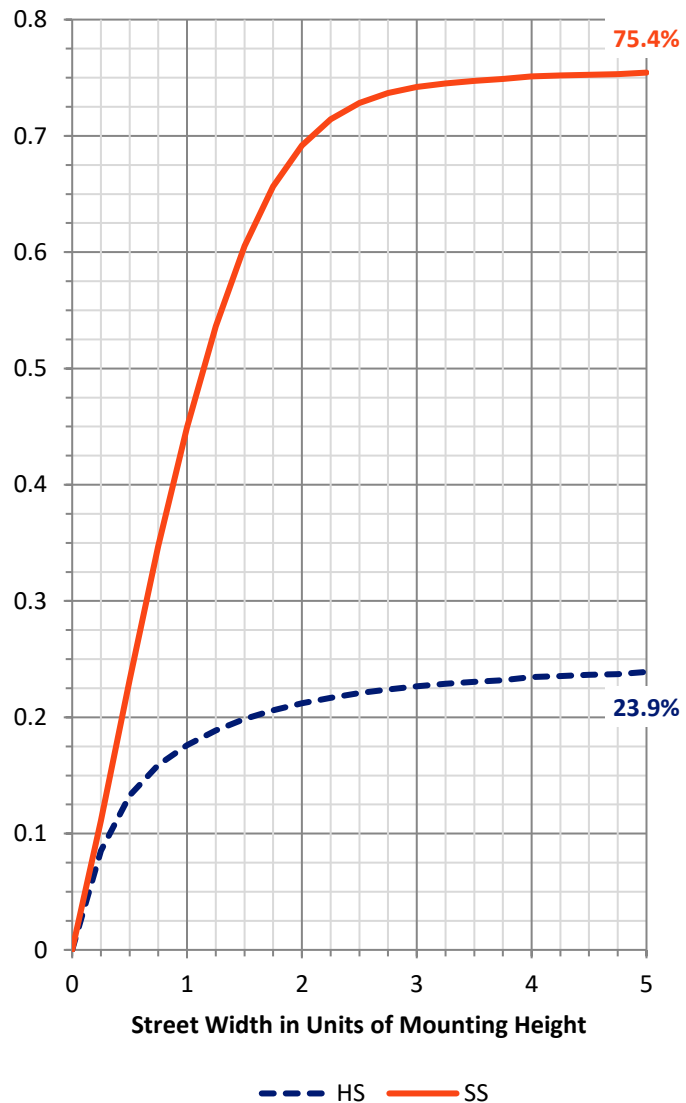
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3405.7	0.0	3405.7
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	10614.3	0.0	10614.3
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	14020.0	0.0	14020.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.0	1.3
10°-20°	577.3	4.1
20°-30°	1027.8	7.3
30°-40°	1581.4	11.3
40°-50°	2241.8	16.0
50°-60°	3245.0	23.1
60°-70°	3358.2	24.0
70°-80°	1572.6	11.2
80°-90°	232.8	1.7
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°	14020.0	100.0
0°-180°	14020.0	100.0



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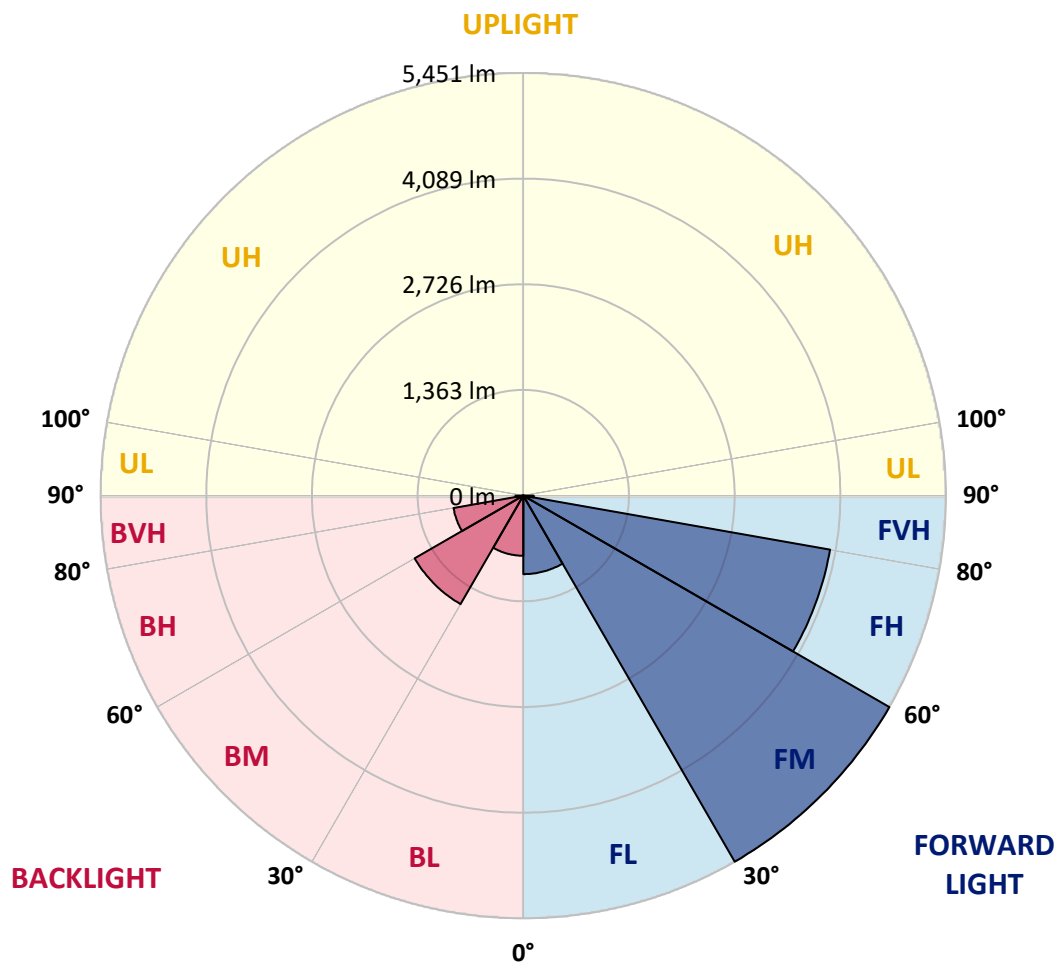
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.5	7.2			
FM	(30°-60°)	5451.4	38.9			
FH	(60°-80°)	4017.1	28.7			G2/5000
FVH	(80°-90°)	133.3	1.0			G2/225
BL	(0°-30°)	775.7	5.5	B2/1000		
BM	(30°-60°)	1616.8	11.5	B2/2500		
BH	(60°-80°)	913.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	99.5	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1
2.5°	1902.2	1901.4	1903.7	1901.4	1902.9	1897.5	1895.1	1896.7	1894.3	1890.4	1883.4
5°	1925.6	1924.8	1925.6	1922.5	1924.0	1920.9	1915.4	1917.0	1913.1	1904.5	1894.3
7.5°	1965.5	1962.3	1962.3	1961.6	1958.4	1953.7	1949.8	1948.3	1944.4	1933.4	1917.8
10°	2017.0	2017.0	2017.8	2011.6	2015.5	2006.9	2003.0	2002.2	1988.9	1974.8	1953.0
12.5°	2085.0	2088.9	2086.6	2083.5	2081.9	2078.8	2065.5	2068.6	2053.8	2029.5	2003.0
15°	2169.4	2175.7	2171.8	2170.2	2166.3	2154.6	2149.1	2146.8	2127.2	2092.1	2056.9
17.5°	2281.2	2273.4	2270.2	2266.3	2249.9	2241.3	2232.0	2230.4	2213.2	2171.8	2117.1
20°	2378.9	2389.8	2383.6	2379.7	2363.2	2346.8	2339.8	2337.5	2322.6	2277.3	2189.8
22.5°	2495.3	2497.7	2500.0	2490.6	2482.8	2470.3	2457.8	2453.9	2448.4	2401.5	2294.5
25°	2619.6	2629.0	2621.1	2611.8	2602.4	2601.6	2613.3	2611.8	2609.4	2564.1	2433.6
27.5°	2822.0	2830.6	2832.9	2822.8	2786.8	2789.9	2816.5	2825.1	2861.1	2786.0	2612.5
30°	2936.1	2944.7	2964.2	3002.5	3059.6	3109.6	3173.7	3193.2	3227.6	3086.1	2825.1
32.5°	3006.4	3009.5	3044.7	3115.8	3287.0	3473.7	3648.0	3655.1	3676.9	3478.4	3019.7
35°	3117.4	3119.7	3147.9	3226.0	3426.9	3737.9	4007.5	4016.1	3998.1	3600.4	3110.4
37.5°	3254.1	3260.4	3278.4	3343.2	3583.2	3959.1	4156.8	4150.5	3991.1	3697.3	3270.6
40°	3453.4	3453.4	3432.3	3519.9	3748.1	4085.7	4209.1	4198.2	4156.0	3977.8	3514.4
42.5°	3629.3	3626.1	3676.2	3735.6	3954.4	4281.0	4428.7	4446.7	4516.3	4330.3	3791.8
45°	3858.2	3872.3	3900.4	4008.3	4305.3	4614.7	4805.4	4822.6	4921.1	4745.2	4116.1
47.5°	4089.6	4094.3	4182.6	4326.4	4739.8	5067.2	5223.5	5251.7	5341.5	5230.6	4465.5
50°	4253.7	4298.2	4439.7	4666.3	5187.6	5619.0	5740.9	5774.5	5933.1	5758.8	4872.6
52.5°	4427.2	4470.9	4643.6	4989.1	5701.8	6183.2	6333.2	6355.9	6520.8	6293.4	5289.2
55°	4575.7	4616.3	4812.5	5275.1	6111.3	6759.2	7031.1	7004.5	7083.5	6705.2	5610.4
57.5°	4599.9	4632.7	4879.7	5458.0	6419.2	7253.1	7643.0	7658.7	7567.2	7013.1	5875.3
60°	4412.3	4479.5	4763.2	5438.4	6557.5	7596.9	8099.4	8110.4	7850.9	7171.0	5980.8
62.5°	4080.2	4073.2	4416.2	5124.3	6363.7	7675.1	8368.3	8356.5	7961.9	7095.2	5878.4
64°	3621.5	3705.9	4026.3	4738.2	6051.1	7554.7	8396.4	8390.1	7908.7	6937.3	5704.1
65°	3341.7	3337.0	3653.5	4422.5	5740.1	7373.4	8346.4	8337.8	7797.8	6795.9	5568.9
67.5°	2412.5	2423.4	2736.0	3412.8	4666.3	6664.6	8020.5	7988.5	7360.1	6327.0	5054.7
70°	1461.4	1467.6	1713.0	2264.0	3349.5	5387.6	7229.6	7231.2	6690.4	5626.8	4302.1
72.5°	769.8	786.2	884.7	1285.6	2034.2	3780.1	5865.1	6004.2	5744.0	4802.3	3398.7
75°	428.3	430.6	500.2	633.8	1037.8	2115.5	4408.4	4448.3	4547.5	3865.3	2513.3
77.5°	326.7	331.4	353.2	409.5	565.0	980.8	2668.0	2868.1	3204.9	2725.1	1434.0
80°	264.9	269.6	288.4	322.0	375.9	465.0	1239.5	1347.3	1715.4	1209.8	559.6
82.5°	206.3	203.2	227.4	249.3	273.5	275.1	508.8	562.7	698.7	520.5	242.3
85°	153.2	153.2	172.7	168.0	176.6	161.0	224.3	247.7	279.8	221.2	112.5
87.5°	61.0	67.2	113.3	101.6	78.9	63.3	82.8	87.5	96.9	86.7	46.9
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°	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1	1881.1
2.5°	1884.2	1886.5	1881.1	1877.2	1875.6	1873.2	1870.9	1871.7	1874.8	1877.9	1877.2
5°	1893.6	1894.3	1885.0	1880.3	1877.2	1874.0	1874.0	1876.4	1882.6	1887.3	1887.3
7.5°	1917.0	1917.0	1903.7	1895.1	1890.4	1885.0	1883.4	1884.2	1888.9	1895.1	1895.9
10°	1953.7	1950.6	1933.4	1920.1	1911.5	1898.3	1886.5	1880.3	1882.6	1886.5	1886.5
12.5°	1998.3	1989.7	1967.8	1949.8	1928.7	1903.7	1879.5	1867.0	1866.2	1870.1	1868.6
15°	2046.0	2036.6	2006.1	1973.3	1936.5	1899.8	1870.9	1852.9	1838.9	1835.0	1843.5
17.5°	2101.4	2081.9	2039.7	1994.4	1939.7	1892.0	1846.7	1809.9	1784.9	1777.9	1780.2
20°	2168.7	2142.9	2085.8	2014.7	1937.3	1863.9	1793.5	1744.3	1703.7	1691.2	1692.7
22.5°	2261.6	2217.1	2133.5	2024.9	1917.8	1810.7	1713.0	1649.0	1599.7	1580.2	1591.9
25°	2367.2	2318.7	2178.8	2022.5	1867.0	1725.5	1617.7	1534.1	1489.5	1460.6	1466.9
27.5°	2512.5	2426.5	2227.3	2001.4	1794.3	1621.6	1496.6	1417.6	1377.0	1362.1	1369.2
30°	2698.5	2566.4	2279.6	1944.4	1679.4	1490.3	1374.7	1323.1	1298.8	1280.1	1286.3
32.5°	2832.9	2664.9	2291.3	1848.2	1555.2	1370.7	1291.8	1253.5	1226.9	1209.0	1212.9
35°	2929.0	2748.5	2285.9	1730.2	1425.4	1272.3	1226.2	1194.9	1151.9	1112.9	1105.8
37.5°	3058.0	2853.2	2246.0	1601.3	1297.3	1205.8	1173.0	1115.2	1053.5	1001.1	998.8
40°	3255.7	2975.9	2160.8	1449.7	1187.9	1156.6	1116.8	1041.7	975.3	933.1	930.0
42.5°	3459.7	3089.3	2045.2	1290.2	1098.0	1105.0	1056.6	982.3	941.7	914.4	911.2
45°	3709.0	3211.9	1920.1	1151.9	1031.6	1056.6	1004.2	961.2	937.0	919.0	914.4
47.5°	3978.6	3337.8	1779.5	1027.7	975.3	1012.0	982.3	962.8	949.5	937.0	931.5
50°	4269.3	3478.4	1647.4	927.6	924.5	965.9	980.0	973.0	965.1	961.2	956.6
52.5°	4588.2	3622.2	1536.4	857.3	880.0	933.1	980.8	986.2	986.2	983.9	980.8
55°	4803.9	3722.3	1423.9	800.3	834.6	906.5	979.2	1000.3	1008.1	1005.0	1001.9
57.5°	4963.3	3777.0	1282.4	751.0	796.3	880.7	970.6	1001.9	1009.7	1013.6	1012.0
60°	4996.1	3726.2	1097.2	699.4	754.9	843.2	939.4	978.4	988.6	1012.8	1015.2
62.5°	4848.4	3569.9	912.8	648.6	704.1	786.2	897.2	951.9	972.2	1009.7	1013.6
64°	4667.1	3394.8	810.4	616.6	671.3	754.1	876.1	944.8	971.4	1021.4	1024.5
65°	4534.2	3267.4	746.3	596.3	650.2	733.0	864.3	947.2	978.4	1039.4	1044.1
67.5°	4045.0	2829.0	617.4	548.6	600.2	697.1	866.7	966.7	976.9	1046.4	1045.6
70°	3347.1	2252.3	517.4	504.8	551.7	668.2	857.3	935.5	936.2	982.3	971.4
72.5°	2506.3	1664.6	448.6	459.5	497.8	599.4	809.6	893.2	880.0	886.2	875.3
75°	1721.6	1101.1	386.1	411.1	441.5	529.9	742.4	811.2	790.1	782.3	774.5
77.5°	919.0	608.8	321.2	363.4	383.7	458.0	647.9	714.3	692.4	661.9	651.8
80°	372.0	286.8	258.7	300.9	312.6	368.9	539.2	580.7	564.2	511.1	493.9
82.5°	186.8	171.9	203.2	236.8	237.6	263.4	400.9	440.0	403.3	338.4	323.5
85°	97.7	100.8	139.9	166.5	146.9	142.2	240.7	266.5	244.6	212.6	191.5
87.5°	35.2	40.6	73.5	72.7	51.6	27.4	53.1	25.8	14.1	8.6	10.9
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)