

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: P451504

Luminaire Tested: **GALN-SA2B-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8337 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

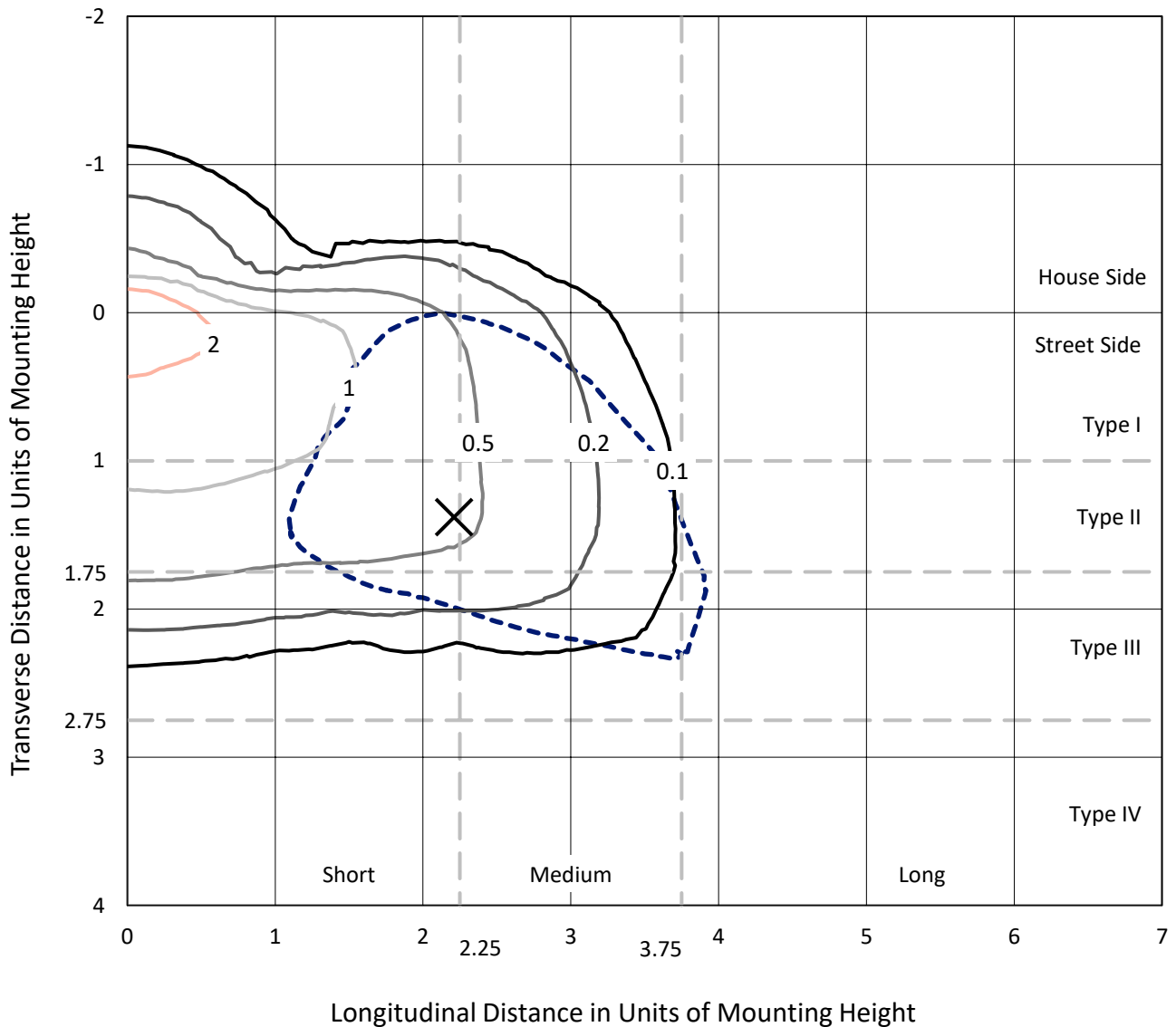
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

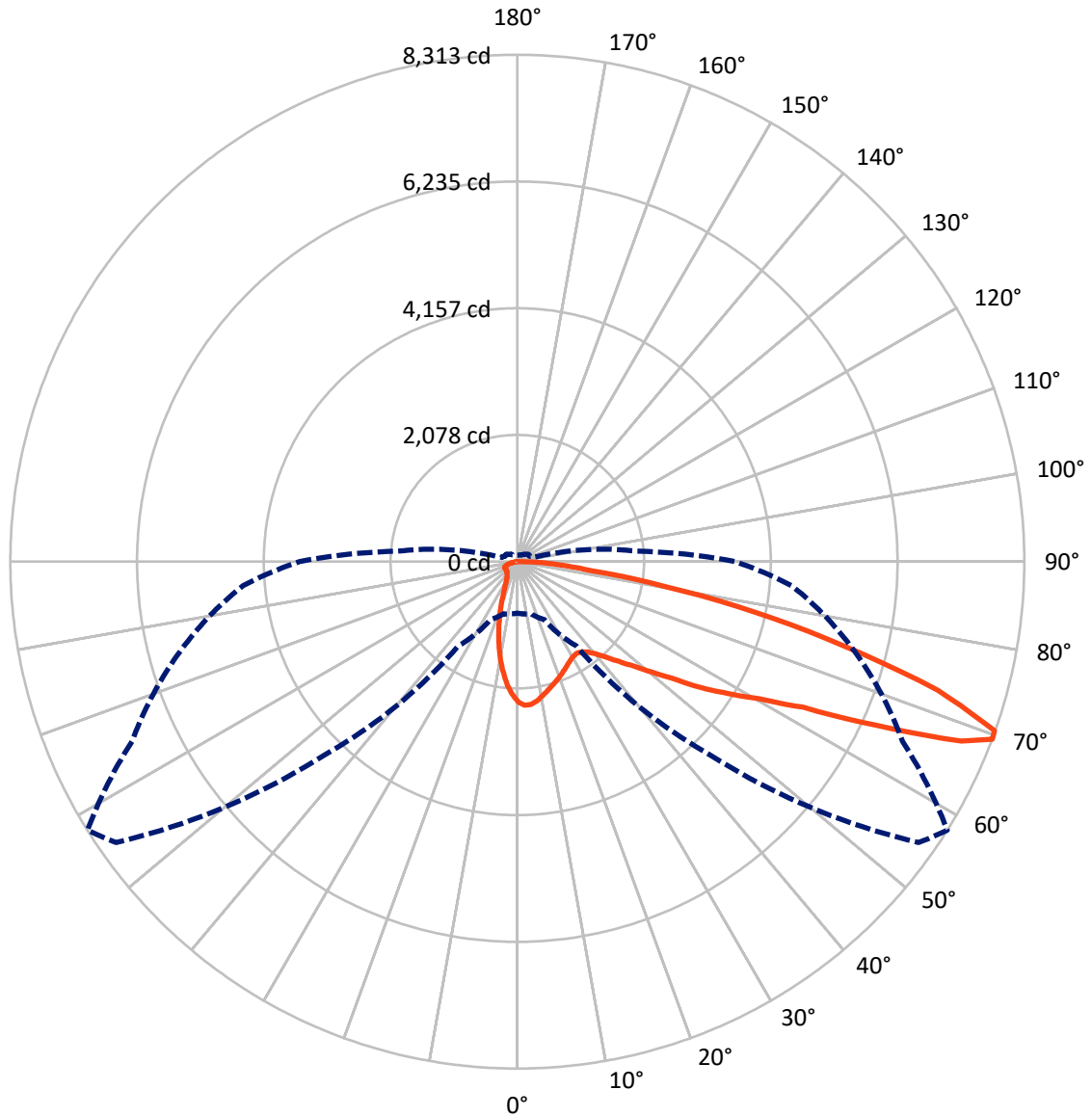
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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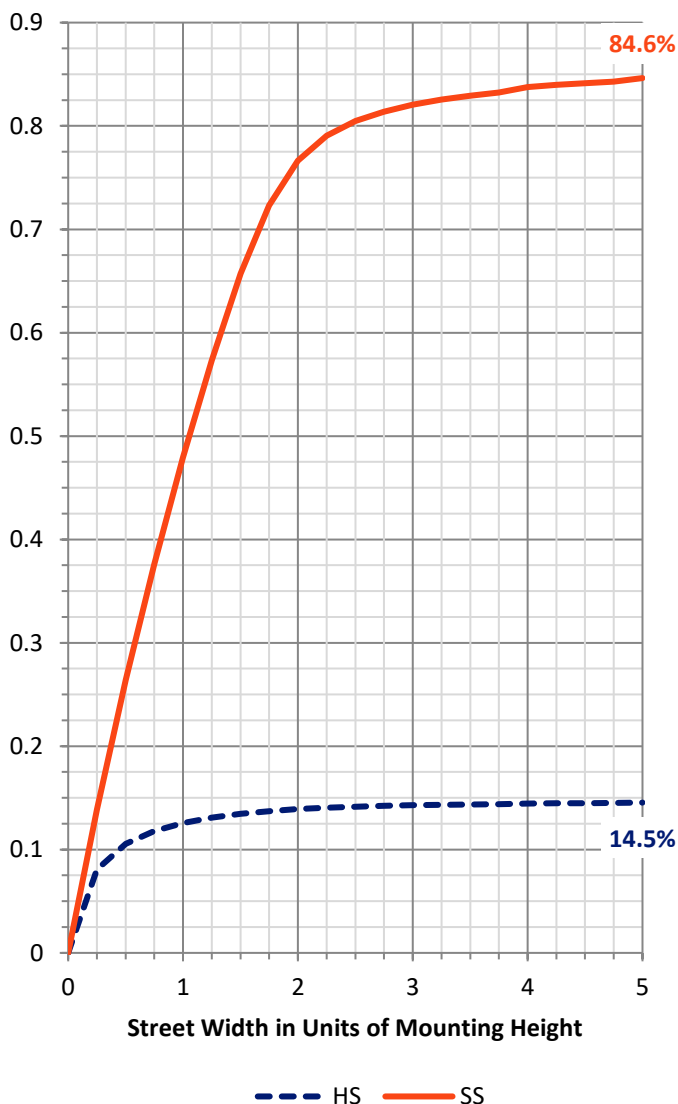
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1221.8	0.0	1221.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	7115.2	0.0	7115.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	8337.0	0.0	8337.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.7	2.3
10°-20°	429.6	5.2
20°-30°	555.1	6.7
30°-40°	720.9	8.6
40°-50°	1048.1	12.6
50°-60°	1672.5	20.1
60°-70°	2234.2	26.8
70°-80°	1287.9	15.4
80°-90°	192.9	2.3
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°	8337.0	100.0
0°-180°	8337.0	100.0

**Coefficient of Utilization**



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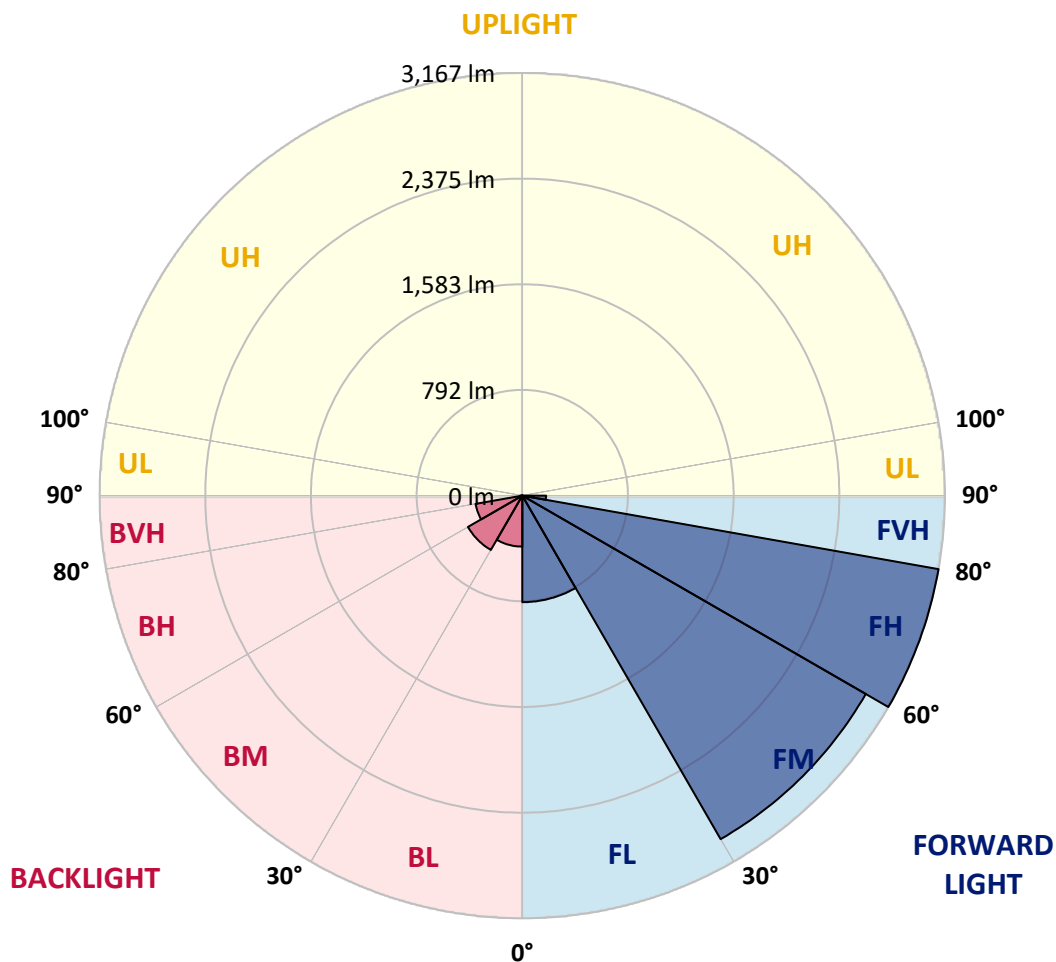
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	798.5	9.6			
FM	(30°-60°)	2971.7	35.6			
FH	(60°-80°)	3166.9	38.0			G2/5000
FVH	(80°-90°)	178.1	2.1			G2/225
BL	(0°-30°)	381.9	4.6	B1/500		
BM	(30°-60°)	469.9	5.6	B1/1000		
BH	(60°-80°)	355.3	4.3	B1/500		G1/500
BVH	(80°-90°)	14.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9
2.5°	2389.4	2395.9	2394.1	2391.7	2388.0	2377.8	2361.0	2358.3	2347.6	2324.8	2296.4
5°	2352.7	2358.3	2358.7	2362.0	2366.6	2364.8	2352.7	2351.3	2335.5	2304.8	2257.4
7.5°	2226.7	2234.1	2250.4	2268.5	2284.8	2300.1	2303.9	2306.2	2296.4	2261.1	2197.8
10°	2084.9	2092.3	2099.7	2126.7	2166.7	2204.8	2236.4	2240.6	2242.9	2210.4	2133.2
12.5°	1927.7	1943.1	1958.9	1998.8	2052.3	2112.3	2168.1	2176.9	2192.7	2168.1	2077.4
15°	1794.3	1810.1	1832.9	1868.7	1933.3	2019.8	2098.3	2112.8	2143.9	2131.4	2025.3
17.5°	1701.7	1707.3	1723.1	1764.0	1833.8	1924.9	2030.0	2058.8	2108.6	2105.3	1980.7
20°	1628.7	1635.7	1645.5	1670.6	1743.1	1839.4	1966.3	2003.5	2070.9	2082.1	1936.5
22.5°	1598.1	1603.2	1601.8	1615.3	1664.5	1761.3	1901.7	1945.8	2037.4	2066.3	1895.6
25°	1599.9	1604.6	1597.6	1594.3	1623.6	1692.4	1834.3	1890.5	2010.5	2055.6	1858.4
27.5°	1631.1	1634.3	1621.3	1608.3	1610.6	1649.7	1778.5	1840.8	1987.7	2060.2	1827.3
30°	1672.9	1679.0	1670.6	1654.8	1637.6	1639.4	1742.7	1804.0	1977.0	2076.5	1812.4
32.5°	1726.8	1732.4	1728.7	1716.2	1693.8	1669.2	1733.8	1790.5	1977.9	2109.5	1809.1
35°	1783.6	1794.7	1800.8	1799.8	1781.7	1738.9	1768.7	1815.7	2000.2	2164.8	1828.2
37.5°	1847.7	1857.0	1883.1	1899.8	1883.1	1833.3	1847.3	1879.8	2049.5	2244.8	1870.1
40°	1910.0	1924.0	1962.1	2014.2	2007.7	1964.0	1967.2	1988.6	2136.5	2363.8	1951.9
42.5°	1975.1	1991.9	2058.4	2135.5	2150.9	2116.9	2125.8	2144.8	2260.2	2528.9	2092.3
45°	2058.8	2078.8	2160.7	2256.9	2317.3	2296.4	2321.5	2330.8	2425.7	2743.7	2277.4
47.5°	2166.7	2189.9	2290.8	2410.8	2496.4	2515.4	2559.1	2553.5	2630.7	2998.0	2517.3
50°	2348.5	2361.5	2456.8	2579.1	2696.7	2782.8	2830.2	2839.0	2885.1	3245.4	2785.6
52.5°	2564.7	2576.3	2645.1	2752.1	2899.5	3081.7	3198.9	3170.1	3181.2	3546.7	3099.4
55°	2807.9	2827.4	2871.1	2942.2	3133.3	3401.6	3636.9	3643.9	3520.2	3835.0	3400.2
57.5°	2996.2	3029.2	3104.0	3205.4	3447.7	3757.3	4073.5	4078.1	3920.0	4142.8	3732.2
60°	2901.3	2940.4	3111.5	3358.4	3860.1	4378.0	4595.2	4568.7	4309.2	4493.3	4137.2
62.5°	2492.2	2499.1	2747.9	3133.8	3987.0	5208.4	5371.6	5259.6	4828.6	4937.8	4548.7
65°	1612.9	1658.5	1855.6	2396.4	3569.9	5669.2	6732.1	6473.1	5556.7	5442.3	4893.2
67.5°	1018.3	1006.6	1088.5	1368.4	2455.4	5263.3	7893.1	7852.2	6508.9	5760.8	4810.9
69°	844.4	857.4	885.3	1048.9	1689.7	4493.8	8030.3	8313.0	6970.6	5735.7	4511.9
70°	765.8	771.8	801.1	929.9	1303.7	3763.8	7805.2	8300.4	7152.0	5630.6	4295.3
72.5°	607.7	607.2	657.4	773.7	974.5	2148.6	6409.0	7206.4	6949.2	5141.5	3549.0
75°	461.7	469.1	524.5	654.7	897.8	1174.0	4472.4	5549.7	5550.2	4060.9	2214.6
77.5°	332.9	337.6	402.2	549.6	845.8	951.8	2979.0	3980.5	3742.0	1860.8	696.0
80°	218.1	220.9	270.1	435.2	762.5	897.8	1766.4	2436.4	1765.0	493.8	230.2
82.5°	119.5	133.4	165.1	281.8	611.9	829.5	1073.6	1233.1	662.1	219.9	120.0
85°	60.0	63.7	93.0	164.6	399.9	686.3	747.6	707.2	341.7	109.3	62.3
87.5°	17.7	22.3	38.6	63.7	162.3	357.6	416.1	373.4	131.6	39.5	13.0
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°	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9	2303.9
2.5°	2284.8	2276.4	2239.2	2205.8	2175.1	2142.5	2115.1	2090.9	2093.2	2093.7	2069.1
5°	2232.7	2213.7	2143.0	2077.0	2021.2	1950.5	1890.0	1851.0	1831.5	1805.4	1814.7
7.5°	2162.0	2125.3	2027.2	1917.5	1814.7	1723.1	1623.6	1555.3	1511.6	1469.3	1474.8
10°	2089.0	2030.0	1887.3	1742.2	1609.2	1462.8	1335.8	1227.0	1146.1	1115.9	1095.9
12.5°	2014.2	1936.5	1755.2	1562.3	1378.6	1203.3	1023.4	906.7	817.4	770.0	776.0
15°	1945.8	1851.5	1617.6	1382.3	1143.8	935.0	755.6	644.4	582.1	569.1	576.5
17.5°	1882.6	1758.9	1488.8	1207.5	929.0	701.2	567.7	504.9	479.8	472.9	472.4
20°	1817.5	1680.4	1344.2	1020.6	723.9	543.5	465.9	436.6	431.9	434.7	435.2
22.5°	1751.5	1583.2	1195.4	835.1	576.5	444.5	407.3	399.4	403.1	409.6	410.6
25°	1690.6	1497.6	1052.2	672.3	460.3	390.6	372.4	372.4	380.8	390.6	391.0
27.5°	1640.4	1414.9	909.5	533.8	385.4	351.5	345.5	348.7	360.3	367.8	368.2
30°	1599.0	1337.7	774.6	427.8	339.0	320.4	319.0	324.5	332.9	339.9	340.3
32.5°	1567.8	1269.8	648.6	359.4	306.9	296.6	296.2	300.4	305.0	306.9	308.7
35°	1555.7	1213.5	533.3	316.2	285.5	279.0	279.0	278.5	280.4	281.3	282.2
37.5°	1565.5	1170.3	444.0	288.3	269.7	265.0	262.2	259.4	258.5	258.5	259.0
40°	1606.9	1147.5	377.5	270.1	258.5	251.5	246.4	243.2	239.9	240.8	241.8
42.5°	1694.8	1151.7	332.4	258.1	248.8	239.0	231.5	227.8	225.5	228.3	227.8
45°	1834.7	1193.5	303.6	249.7	239.0	226.4	219.5	215.7	215.7	219.9	221.3
47.5°	2030.5	1273.5	288.3	243.2	231.5	216.7	209.7	206.9	207.8	214.8	215.3
50°	2269.5	1412.5	285.5	239.9	227.8	209.7	201.8	199.0	201.3	208.8	209.7
52.5°	2533.1	1591.5	299.0	240.4	224.6	205.5	195.3	191.1	193.4	199.5	201.3
55°	2845.5	1815.7	333.8	242.2	219.9	203.2	190.6	181.3	184.1	188.3	188.8
57.5°	3164.5	2098.3	395.2	242.7	216.2	199.0	182.7	170.6	170.6	173.4	174.8
60°	3554.1	2406.1	476.1	243.2	216.7	193.0	172.0	158.6	156.7	158.1	158.6
62.5°	3941.0	2663.7	489.6	241.8	221.3	186.9	160.4	146.5	143.2	142.7	141.8
65°	4111.6	2615.8	401.3	235.3	226.4	183.2	151.1	134.8	129.3	127.4	127.4
67.5°	3833.6	2212.7	301.8	226.4	223.2	179.5	142.3	125.1	118.6	114.8	114.8
69°	3572.3	1968.2	271.1	220.4	214.8	173.4	136.7	120.0	112.1	107.9	106.5
70°	3370.5	1799.8	258.1	215.3	206.9	166.5	132.5	116.2	107.4	102.8	101.8
72.5°	2689.8	1412.1	226.0	195.7	176.2	140.0	117.6	104.6	96.2	91.1	89.7
75°	1550.2	765.3	187.4	170.2	141.8	108.8	99.5	91.1	84.6	80.0	78.6
77.5°	477.0	295.7	135.8	134.4	104.2	84.2	79.5	76.3	71.6	66.5	65.6
80°	200.9	150.6	92.1	90.7	69.3	58.6	57.2	56.7	54.9	50.7	49.3
82.5°	110.2	85.1	64.2	55.8	41.8	33.9	35.3	35.8	34.4	30.2	27.4
85°	53.9	46.5	31.2	25.1	19.1	12.1	11.6	13.9	13.0	9.3	10.2
87.5°	10.7	13.0	8.4	3.7	1.9	0.0	0.0	0.0	0.0	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)