

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: P452449

Luminaire Tested: **GALN-SA3B-827-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452449  
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-SA3B-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 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: 12460 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

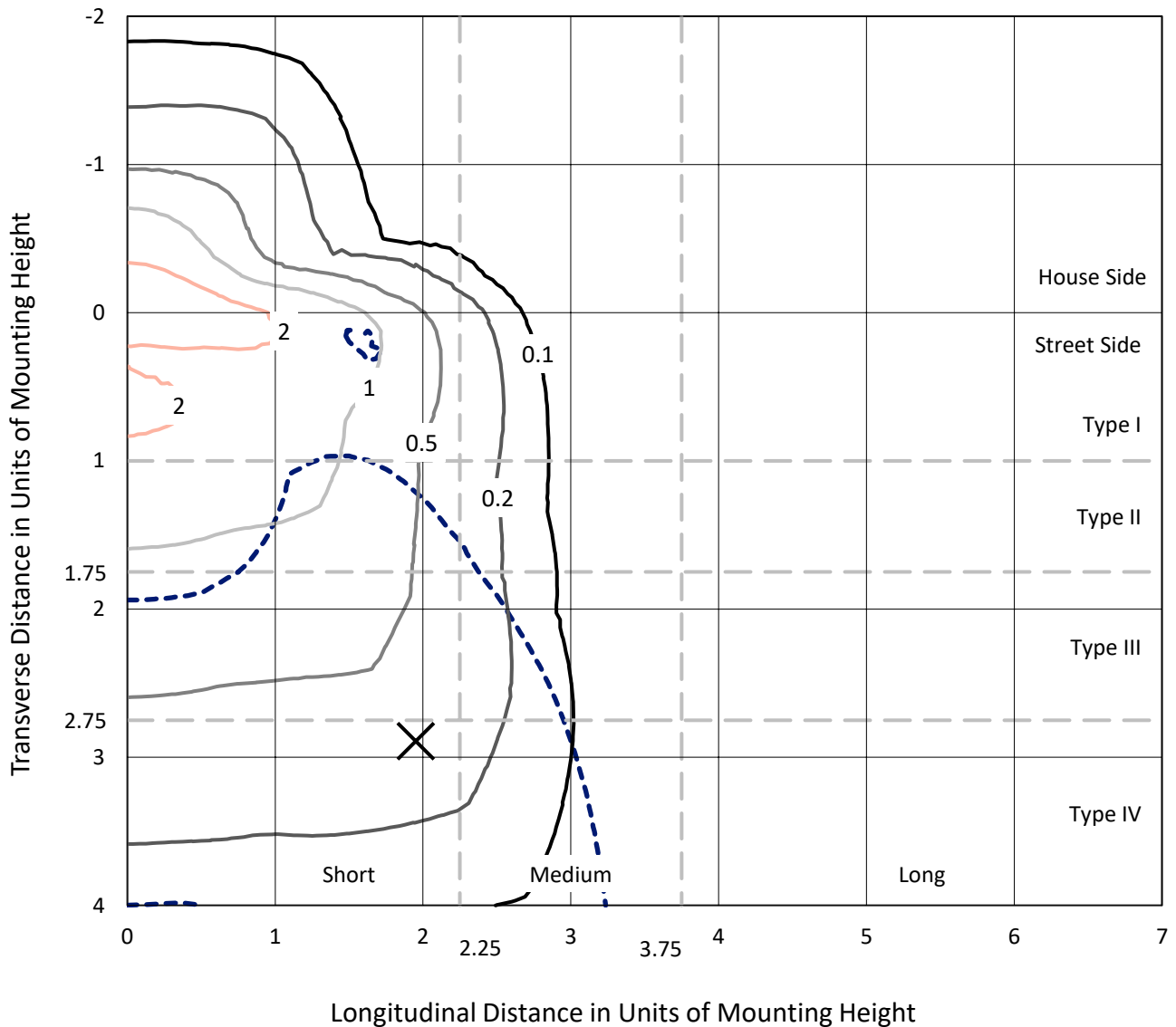
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

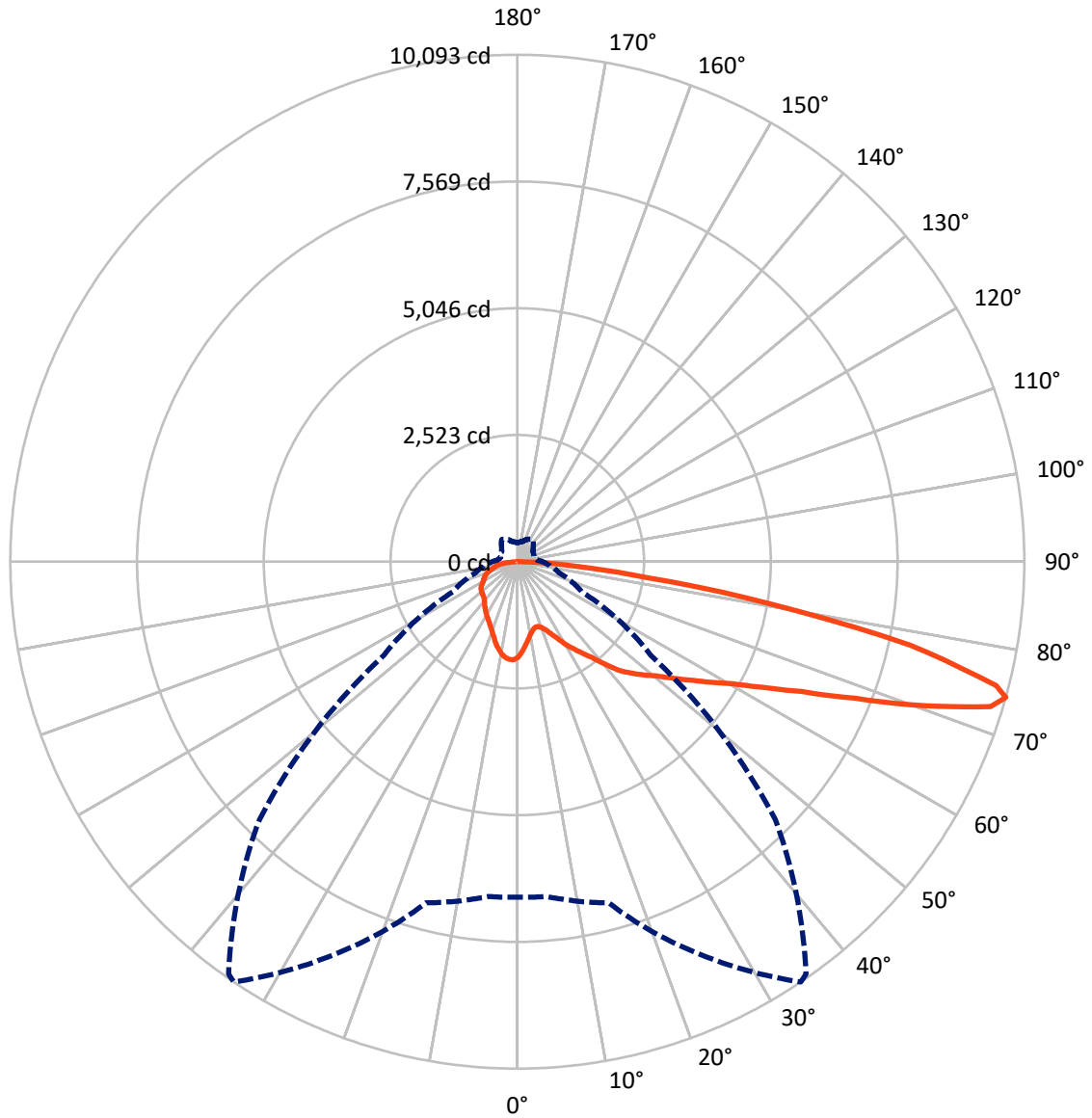
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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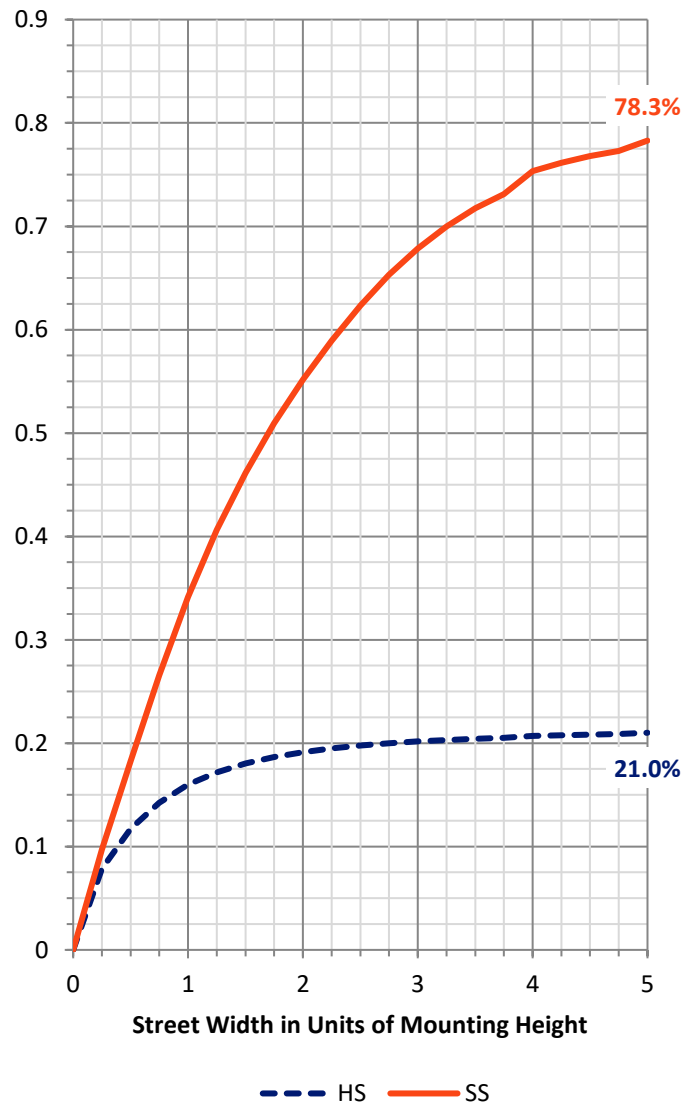
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2651.6	0.0	2651.6
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	9808.4	0.0	9808.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	12460.0	0.0	12460.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.0	1.4
10°-20°	473.6	3.8
20°-30°	780.9	6.3
30°-40°	1169.7	9.4
40°-50°	1700.4	13.6
50°-60°	2375.0	19.1
60°-70°	2973.4	23.9
70°-80°	2458.8	19.7
80°-90°	355.3	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°	12460.0	100.0
0°-180°	12460.0	100.0



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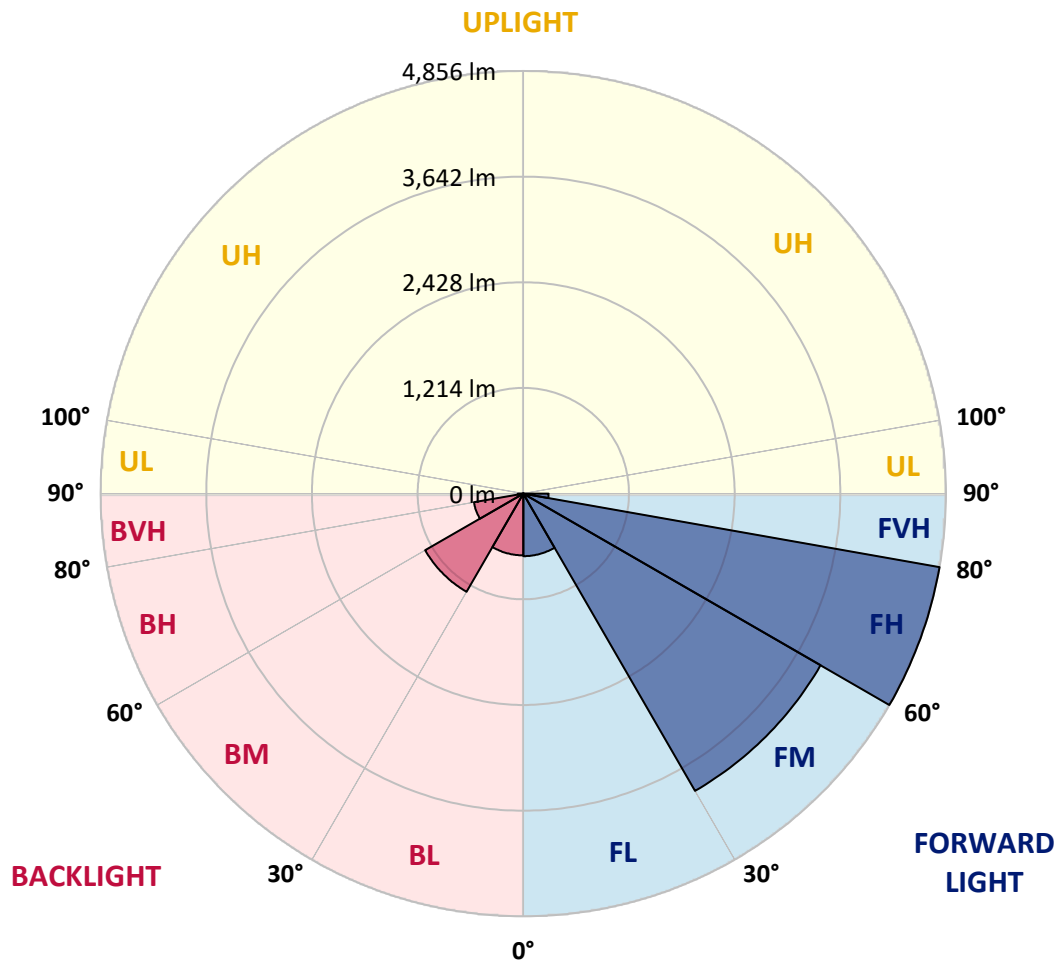
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	718.3	5.8			
FM	(30°-60°)	3942.9	31.6			
FH	(60°-80°)	4856.2	39.0			G2/5000
FVH	(80°-90°)	291.1	2.3			G3/500
BL	(0°-30°)	709.3	5.7	B2/1000		
BM	(30°-60°)	1302.2	10.5	B2/2500		
BH	(60°-80°)	575.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	64.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1758.1	1767.1	1771.9	1789.2	1793.3	1798.9	1813.4	1832.7	1857.5	1879.6	1898.9
5°	1611.8	1625.6	1633.9	1649.1	1678.7	1681.5	1720.2	1764.3	1814.7	1861.7	1900.3
7.5°	1473.0	1488.2	1495.1	1522.7	1562.1	1568.3	1624.9	1694.6	1778.8	1849.9	1909.3
10°	1368.8	1376.4	1391.6	1412.3	1459.2	1463.4	1537.2	1630.4	1739.5	1844.4	1924.5
12.5°	1312.2	1316.4	1319.8	1341.9	1388.1	1394.4	1471.7	1577.3	1708.4	1848.6	1949.3
15°	1320.5	1321.9	1306.7	1310.8	1348.1	1357.1	1433.7	1542.1	1689.1	1858.9	1986.6
17.5°	1390.2	1385.4	1348.1	1328.8	1355.0	1359.1	1426.1	1528.3	1680.1	1878.2	2025.3
20°	1500.0	1493.1	1428.9	1386.1	1401.3	1404.7	1451.0	1538.6	1689.1	1910.0	2085.3
22.5°	1636.6	1633.9	1536.6	1484.8	1484.1	1484.1	1508.2	1575.9	1716.0	1953.5	2148.1
25°	1827.8	1813.4	1686.3	1619.4	1600.7	1599.4	1596.6	1637.3	1750.5	1999.7	2222.7
27.5°	2023.9	1999.0	1885.8	1783.0	1742.9	1738.1	1720.2	1724.3	1794.7	2052.2	2307.6
30°	2199.9	2184.0	2077.7	1963.8	1916.2	1905.2	1855.5	1832.7	1868.6	2146.8	2442.9
32.5°	2334.5	2324.8	2242.0	2138.5	2068.1	2066.0	1993.5	1974.9	1983.8	2261.3	2597.5
35°	2443.6	2447.0	2404.9	2315.2	2234.4	2222.7	2174.4	2150.9	2124.7	2427.0	2792.2
37.5°	2592.7	2600.3	2597.5	2520.2	2421.5	2424.2	2413.2	2374.5	2304.8	2612.0	3008.2
40°	2757.0	2762.5	2761.8	2732.1	2680.3	2683.1	2679.0	2634.8	2530.5	2847.4	3248.4
42.5°	2984.1	2957.8	2889.5	2919.2	2949.5	2962.7	2991.0	2948.9	2806.0	3098.6	3474.1
45°	3238.1	3188.4	3033.8	3047.6	3160.1	3184.9	3340.9	3282.9	3104.9	3387.2	3739.9
47.5°	3398.2	3349.2	3218.7	3216.0	3365.1	3389.2	3665.4	3644.0	3376.8	3698.5	4064.3
50°	3541.1	3534.2	3387.2	3422.4	3568.0	3603.9	4018.8	3998.8	3648.1	4065.7	4417.8
52.5°	3753.0	3697.1	3579.8	3652.2	3844.8	3891.8	4369.4	4310.8	3897.3	4390.1	4760.8
55°	3848.3	3835.2	3828.3	3891.1	4155.5	4189.3	4710.4	4575.8	4109.9	4664.9	5021.7
57.5°	4103.0	4078.8	4147.2	4190.0	4521.3	4573.1	5066.6	4852.6	4296.3	4883.0	5148.8
60°	4432.9	4419.8	4482.6	4560.0	4929.9	5008.6	5472.5	5088.7	4446.1	4992.8	5079.0
62.5°	4925.8	4924.4	4912.7	5078.3	5509.1	5581.6	5938.4	5318.6	4469.5	4910.6	4718.7
65°	5632.6	5607.8	5505.6	5686.5	6229.7	6314.6	6423.7	5447.0	4328.0	4488.9	3973.2
67.5°	6371.9	6370.5	6287.7	6522.4	7264.4	7352.1	7030.4	5418.7	3935.3	3636.4	2821.8
70°	6984.9	6955.2	7060.8	7686.2	8586.3	8687.8	7561.3	5085.2	3134.5	2401.5	1676.7
72.5°	7131.9	7133.3	7352.8	8583.6	9855.7	9871.6	7752.5	4121.6	2097.7	1324.6	838.7
74°	6679.1	6690.8	7031.1	8628.4	10092.5	10020.7	7263.8	3239.5	1418.5	864.9	604.7
75°	6096.5	6022.6	6514.8	8329.5	9846.8	9769.5	6691.5	2599.6	1082.3	691.0	529.4
77.5°	3259.5	3334.7	4094.0	6215.9	7999.6	7910.5	4537.2	1246.6	584.7	481.1	381.0
80°	1160.4	1279.8	1798.9	3252.6	5128.7	5156.3	2165.4	571.5	411.4	354.8	269.2
82.5°	473.5	486.6	772.4	1443.4	2604.4	2629.3	884.2	339.6	294.1	244.4	160.8
85°	185.0	190.5	341.7	648.9	1111.3	1183.8	305.8	179.5	180.9	140.1	82.1
87.5°	62.1	70.4	140.1	216.1	377.6	370.0	89.0	53.2	64.9	60.7	25.5
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°	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1908.6	1921.7	1930.7	1940.4	1949.3	1952.1	1950.0	1956.2	1956.9	1957.6	1958.3
5°	1919.7	1937.6	1954.9	1964.5	1968.7	1965.2	1953.5	1947.3	1941.7	1937.6	1939.0
7.5°	1934.8	1960.4	1976.3	1980.4	1969.4	1953.5	1924.5	1901.7	1887.2	1877.5	1876.9
10°	1958.3	1983.2	1996.3	1984.5	1954.2	1915.5	1870.0	1827.2	1794.7	1785.0	1784.4
12.5°	1988.0	2016.3	2015.6	1981.1	1927.9	1858.9	1785.0	1735.3	1691.2	1669.1	1678.1
15°	2026.6	2048.0	2028.0	1965.9	1881.7	1787.1	1696.0	1628.4	1578.7	1555.2	1556.6
17.5°	2071.5	2090.2	2037.0	1939.0	1816.8	1695.3	1589.7	1525.5	1486.2	1468.9	1467.5
20°	2127.4	2132.9	2037.0	1892.0	1733.3	1588.3	1487.5	1442.7	1420.6	1411.6	1414.4
22.5°	2187.5	2176.4	2026.0	1825.8	1623.5	1476.5	1408.8	1388.8	1377.8	1376.4	1377.8
25°	2255.1	2224.1	2003.2	1736.0	1508.9	1379.9	1340.5	1344.0	1346.0	1346.0	1350.9
27.5°	2338.0	2275.8	1965.2	1622.8	1375.0	1290.1	1279.1	1303.2	1314.3	1316.4	1319.8
30°	2447.0	2332.4	1902.4	1481.3	1261.1	1209.4	1228.7	1261.1	1273.6	1281.1	1279.8
32.5°	2576.8	2394.6	1817.5	1339.8	1169.3	1152.8	1176.2	1209.4	1223.2	1227.3	1221.8
35°	2729.3	2465.0	1705.7	1207.3	1089.3	1098.9	1126.5	1136.9	1149.3	1149.3	1152.1
37.5°	2893.6	2521.6	1569.0	1085.8	1027.1	1062.3	1082.3	1072.7	1067.2	1060.3	1063.7
40°	3060.7	2563.7	1391.6	965.7	965.0	1024.4	1029.9	1002.3	980.2	973.3	969.8
42.5°	3206.3	2589.9	1231.4	872.5	906.3	987.1	991.2	947.1	911.9	891.1	884.2
45°	3378.2	2620.3	1074.8	795.2	851.8	957.4	967.8	908.4	856.6	813.1	802.1
47.5°	3613.6	2689.3	951.2	735.1	812.5	938.8	953.3	876.6	808.3	751.7	742.7
50°	3879.3	2783.9	855.2	694.4	782.1	922.2	940.2	844.2	763.4	700.6	693.7
52.5°	4123.0	2835.0	772.4	657.8	752.4	891.8	922.9	820.7	719.3	649.5	643.3
55°	4256.2	2752.1	691.0	621.9	711.7	852.5	898.7	788.3	676.5	622.6	613.7
57.5°	4274.2	2580.9	617.1	583.3	668.9	804.2	853.9	748.9	648.9	604.0	596.4
60°	4135.4	2325.5	559.8	551.5	625.4	749.6	803.5	714.4	620.6	583.3	575.7
62.5°	3790.3	2048.0	519.8	522.5	581.2	692.3	766.2	681.3	593.6	560.5	553.6
65°	3196.7	1690.5	481.1	492.9	541.9	647.5	732.4	653.7	566.7	543.2	537.0
67.5°	2220.6	1220.4	449.4	461.8	504.6	601.9	693.0	624.0	536.3	523.9	514.3
70°	1229.4	751.0	412.1	426.6	465.9	550.8	648.9	579.1	492.2	486.6	472.8
72.5°	646.1	478.4	370.0	385.9	413.5	485.3	581.2	530.1	448.7	425.2	407.3
74°	504.6	392.1	341.7	358.3	376.9	446.6	541.2	494.9	417.6	390.0	376.2
75°	439.7	349.3	317.5	338.9	355.5	420.4	510.1	470.1	400.4	374.1	361.7
77.5°	310.6	261.6	259.5	285.1	294.1	368.6	459.7	428.0	356.9	329.3	317.5
80°	218.1	196.0	205.7	221.6	234.0	325.8	426.6	370.0	292.7	260.2	256.1
82.5°	142.2	128.4	147.0	161.5	165.7	240.2	344.4	280.9	213.3	173.3	160.8
85°	65.6	64.2	84.2	82.1	81.5	117.3	204.3	164.3	122.9	91.8	86.3
87.5°	16.6	15.9	20.7	17.3	20.7	17.9	18.6	4.8	0.7	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)