

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: P452739

Luminaire Tested: **GALN-SA3D-722-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452739  
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-SA3D-722-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 1200mA 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: 16939 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

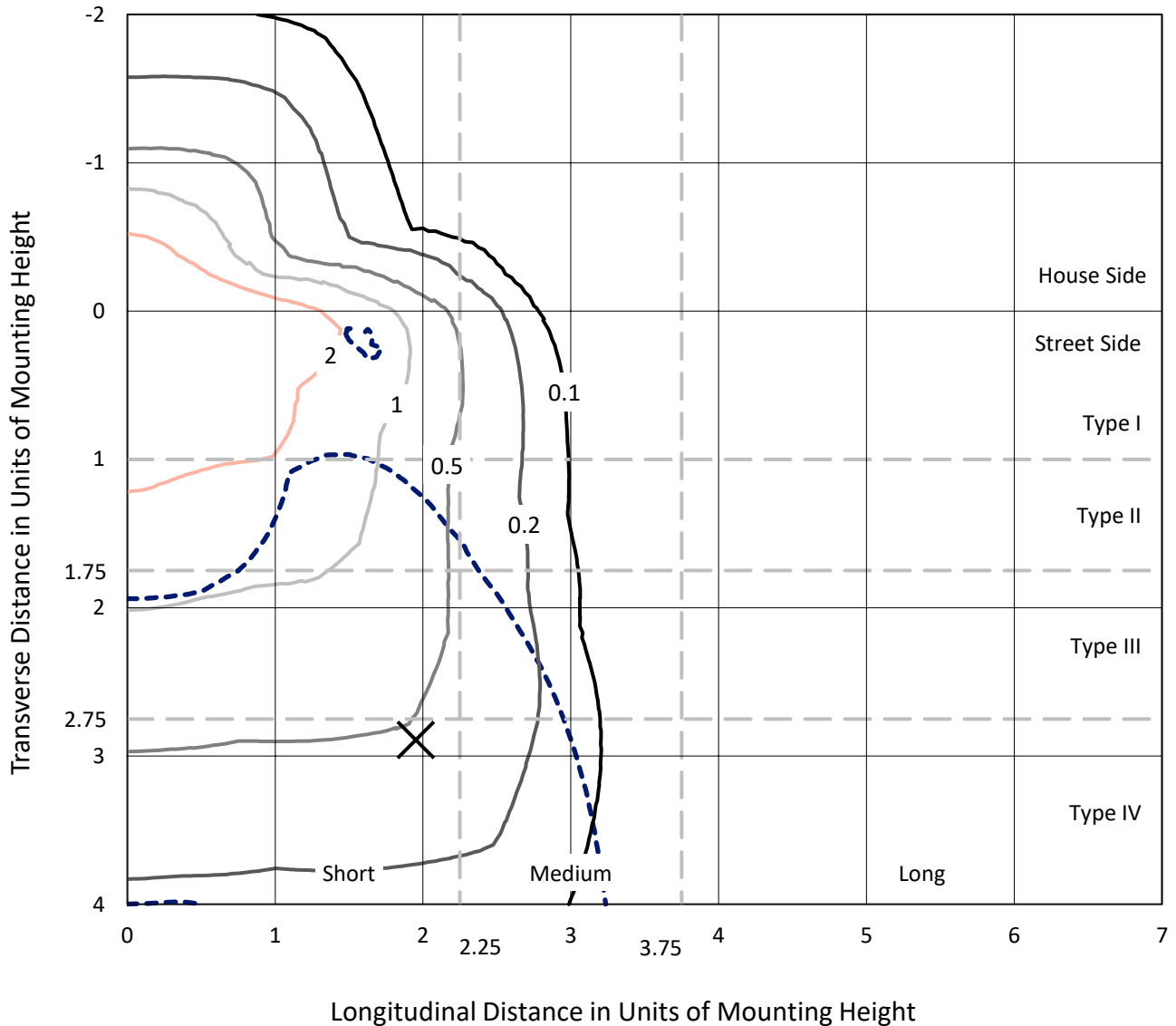
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

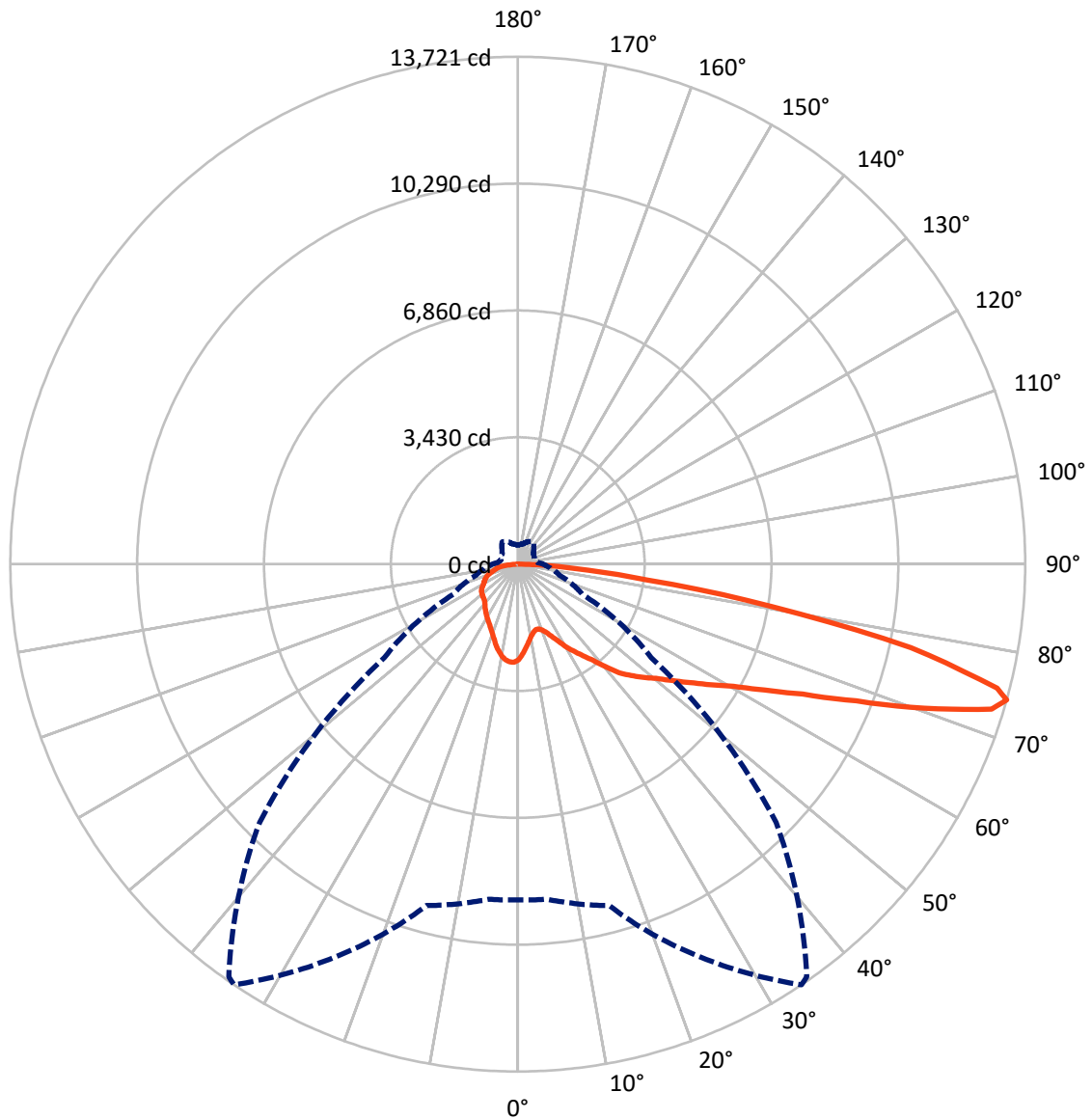
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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    | 3604.7   | 0.0    | 3604.7  |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 13334.3  | 0.0    | 13334.3 |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 16939.0  | 0.0    | 16939.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 235.2   | 1.4       |
| 10°-20°   | 643.9   | 3.8       |
| 20°-30°   | 1061.6  | 6.3       |
| 30°-40°   | 1590.1  | 9.4       |
| 40°-50°   | 2311.6  | 13.6      |
| 50°-60°   | 3228.8  | 19.1      |
| 60°-70°   | 4042.2  | 23.9      |
| 70°-80°   | 3342.6  | 19.7      |
| 80°-90°   | 483.0   | 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°    | 16939.0 | 100.0     |
| 0°-180°   | 16939.0 | 100.0     |

**Coefficient of Utilization**



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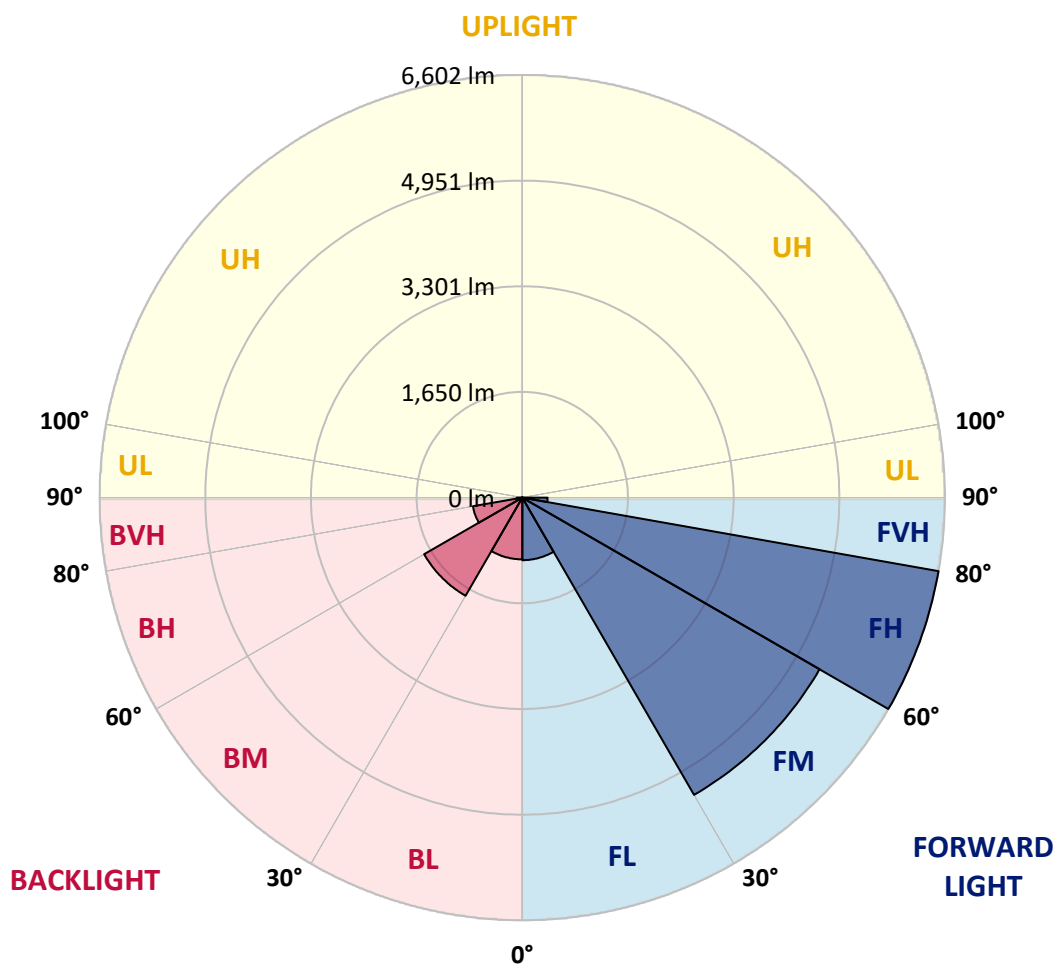
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 976.5  | 5.8       |                         |      |         |
| FM (30°-60°)   | 5360.2 | 31.6      |                         |      |         |
| FH (60°-80°)   | 6601.9 | 39.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 395.7  | 2.3       |                         |      | G3/500  |
| BL (0°-30°)    | 964.2  | 5.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1770.3 | 10.5      | B2/2500                 |      |         |
| BH (60°-80°)   | 782.9  | 4.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 87.3   | 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°    | 2586.3 | 2586.3 | 2586.3 | 2586.3  | 2586.3  | 2586.3  | 2586.3  | 2586.3 | 2586.3 | 2586.3 | 2586.3 |
| 2.5°  | 2390.1 | 2402.3 | 2408.9 | 2432.4  | 2438.0  | 2445.5  | 2465.2  | 2491.5 | 2525.3 | 2555.3 | 2581.6 |
| 5°    | 2191.2 | 2209.9 | 2221.2 | 2241.9  | 2282.2  | 2286.0  | 2338.5  | 2398.6 | 2467.1 | 2530.9 | 2583.4 |
| 7.5°  | 2002.6 | 2023.2 | 2032.6 | 2070.1  | 2123.6  | 2132.1  | 2209.0  | 2303.8 | 2418.3 | 2514.9 | 2595.6 |
| 10°   | 1860.9 | 1871.2 | 1891.8 | 1920.0  | 1983.8  | 1989.4  | 2089.8  | 2216.5 | 2364.8 | 2507.4 | 2616.3 |
| 12.5° | 1783.9 | 1789.5 | 1794.2 | 1824.3  | 1887.1  | 1895.6  | 2000.7  | 2144.3 | 2322.6 | 2513.1 | 2650.1 |
| 15°   | 1795.2 | 1797.0 | 1776.4 | 1782.0  | 1832.7  | 1844.9  | 1949.1  | 2096.4 | 2296.3 | 2527.1 | 2700.7 |
| 17.5° | 1890.0 | 1883.4 | 1832.7 | 1806.4  | 1842.1  | 1847.7  | 1938.7  | 2077.6 | 2284.1 | 2553.4 | 2753.3 |
| 20°   | 2039.2 | 2029.8 | 1942.5 | 1884.3  | 1905.0  | 1909.7  | 1972.5  | 2091.7 | 2296.3 | 2596.6 | 2834.9 |
| 22.5° | 2225.0 | 2221.2 | 2088.9 | 2018.5  | 2017.6  | 2017.6  | 2050.4  | 2142.4 | 2332.9 | 2655.7 | 2920.3 |
| 25°   | 2484.9 | 2465.2 | 2292.5 | 2201.5  | 2176.2  | 2174.3  | 2170.5  | 2225.9 | 2379.8 | 2718.6 | 3021.7 |
| 27.5° | 2751.4 | 2717.6 | 2563.7 | 2423.9  | 2369.5  | 2362.9  | 2338.5  | 2344.1 | 2439.9 | 2789.9 | 3137.1 |
| 30°   | 2990.7 | 2969.1 | 2824.6 | 2669.8  | 2605.0  | 2590.0  | 2522.4  | 2491.5 | 2540.3 | 2918.4 | 3321.0 |
| 32.5° | 3173.7 | 3160.6 | 3047.9 | 2907.2  | 2811.5  | 2808.7  | 2710.1  | 2684.8 | 2697.0 | 3074.2 | 3531.2 |
| 35°   | 3322.0 | 3326.7 | 3269.4 | 3147.4  | 3037.6  | 3021.7  | 2956.0  | 2924.1 | 2888.4 | 3299.4 | 3795.9 |
| 37.5° | 3524.7 | 3535.0 | 3531.2 | 3426.1  | 3291.9  | 3295.7  | 3280.7  | 3228.1 | 3133.3 | 3550.9 | 4089.6 |
| 40°   | 3748.0 | 3755.5 | 3754.6 | 3714.2  | 3643.8  | 3647.6  | 3642.0  | 3581.9 | 3440.2 | 3870.9 | 4416.1 |
| 42.5° | 4056.7 | 4021.1 | 3928.2 | 3968.5  | 4009.8  | 4027.6  | 4066.1  | 4008.9 | 3814.6 | 4212.5 | 4723.0 |
| 45°   | 4402.1 | 4334.5 | 4124.3 | 4143.1  | 4296.0  | 4329.8  | 4541.9  | 4463.1 | 4221.0 | 4604.8 | 5084.3 |
| 47.5° | 4619.8 | 4553.2 | 4375.8 | 4372.0  | 4574.7  | 4607.6  | 4982.9  | 4953.9 | 4590.7 | 5028.0 | 5525.3 |
| 50°   | 4814.0 | 4804.6 | 4604.8 | 4652.6  | 4850.6  | 4899.4  | 5463.4  | 5436.2 | 4959.5 | 5527.2 | 6005.8 |
| 52.5° | 5102.1 | 5026.1 | 4866.6 | 4965.1  | 5226.9  | 5290.7  | 5940.1  | 5860.4 | 5298.2 | 5968.3 | 6472.2 |
| 55°   | 5231.6 | 5213.8 | 5204.4 | 5289.8  | 5649.2  | 5695.2  | 6403.7  | 6220.7 | 5587.3 | 6341.8 | 6826.9 |
| 57.5° | 5577.9 | 5545.0 | 5638.0 | 5696.1  | 6146.6  | 6216.9  | 6887.9  | 6597.0 | 5840.6 | 6638.3 | 6999.6 |
| 60°   | 6026.5 | 6008.6 | 6094.0 | 6199.1  | 6702.1  | 6809.1  | 7439.7  | 6917.9 | 6044.3 | 6787.5 | 6904.8 |
| 62.5° | 6696.5 | 6694.6 | 6678.6 | 6903.9  | 7489.4  | 7588.0  | 8073.1  | 7230.4 | 6076.2 | 6675.8 | 6415.0 |
| 65°   | 7657.4 | 7623.6 | 7484.7 | 7730.6  | 8469.1  | 8584.5  | 8732.8  | 7405.0 | 5883.8 | 6102.5 | 5401.5 |
| 67.5° | 8662.4 | 8660.6 | 8548.0 | 8867.0  | 9875.8  | 9995.0  | 9557.7  | 7366.5 | 5349.9 | 4943.5 | 3836.2 |
| 70°   | 9495.7 | 9455.4 | 9599.0 | 10449.2 | 11672.8 | 11810.8 | 10279.3 | 6913.2 | 4261.3 | 3264.7 | 2279.4 |
| 72.5° | 9695.6 | 9697.5 | 9995.9 | 11669.1 | 13398.6 | 13420.2 | 10539.3 | 5603.2 | 2851.8 | 1800.8 | 1140.2 |
| 74°   | 9080.0 | 9096.0 | 9558.6 | 11730.1 | 13720.5 | 13622.9 | 9874.9  | 4403.9 | 1928.4 | 1175.8 | 822.0  |
| 75°   | 8288.0 | 8187.6 | 8856.7 | 11323.8 | 13386.4 | 13281.3 | 9096.9  | 3534.0 | 1471.4 | 939.3  | 719.8  |
| 77.5° | 4431.2 | 4533.4 | 5565.7 | 8450.4  | 10875.2 | 10754.1 | 6168.2  | 1694.8 | 794.8  | 654.1  | 518.0  |
| 80°   | 1577.5 | 1739.8 | 2445.5 | 4421.8  | 6972.4  | 7009.9  | 2943.8  | 777.0  | 559.3  | 482.3  | 366.0  |
| 82.5° | 643.7  | 661.6  | 1050.1 | 1962.2  | 3540.6  | 3574.4  | 1202.1  | 461.7  | 399.8  | 332.2  | 218.6  |
| 85°   | 251.5  | 259.0  | 464.5  | 882.1   | 1510.8  | 1609.4  | 415.7   | 244.0  | 245.9  | 190.5  | 111.7  |
| 87.5° | 84.5   | 95.7   | 190.5  | 293.7   | 513.3   | 503.0   | 121.1   | 72.3   | 88.2   | 82.6   | 34.7   |
| 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°    | 2586.3 | 2586.3 | 2586.3 | 2586.3 | 2586.3 | 2586.3 | 2586.3 | 2586.3 | 2586.3 | 2586.3 | 2586.3 |
| 2.5°  | 2594.7 | 2612.5 | 2624.7 | 2637.9 | 2650.1 | 2653.8 | 2651.0 | 2659.4 | 2660.4 | 2661.3 | 2662.3 |
| 5°    | 2609.7 | 2634.1 | 2657.6 | 2670.7 | 2676.3 | 2671.6 | 2655.7 | 2647.2 | 2639.7 | 2634.1 | 2636.0 |
| 7.5°  | 2630.4 | 2665.1 | 2686.7 | 2692.3 | 2677.3 | 2655.7 | 2616.3 | 2585.3 | 2565.6 | 2552.5 | 2551.5 |
| 10°   | 2662.3 | 2696.0 | 2713.9 | 2697.9 | 2656.6 | 2604.1 | 2542.1 | 2484.0 | 2439.9 | 2426.7 | 2425.8 |
| 12.5° | 2702.6 | 2741.1 | 2740.1 | 2693.2 | 2621.0 | 2527.1 | 2426.7 | 2359.2 | 2299.1 | 2269.1 | 2281.3 |
| 15°   | 2755.2 | 2784.3 | 2757.0 | 2672.6 | 2558.1 | 2429.5 | 2305.7 | 2213.7 | 2146.1 | 2114.2 | 2116.1 |
| 17.5° | 2816.2 | 2841.5 | 2769.2 | 2636.0 | 2469.9 | 2304.7 | 2161.2 | 2073.9 | 2020.4 | 1996.9 | 1995.1 |
| 20°   | 2892.2 | 2899.7 | 2769.2 | 2572.2 | 2356.3 | 2159.3 | 2022.3 | 1961.3 | 1931.2 | 1919.0 | 1922.8 |
| 22.5° | 2973.8 | 2958.8 | 2754.2 | 2482.1 | 2207.1 | 2007.3 | 1915.3 | 1888.1 | 1873.1 | 1871.2 | 1873.1 |
| 25°   | 3065.8 | 3023.5 | 2723.3 | 2360.1 | 2051.4 | 1875.9 | 1822.4 | 1827.1 | 1829.9 | 1829.9 | 1836.5 |
| 27.5° | 3178.4 | 3093.9 | 2671.6 | 2206.2 | 1869.3 | 1753.9 | 1738.9 | 1771.7 | 1786.7 | 1789.5 | 1794.2 |
| 30°   | 3326.7 | 3170.9 | 2586.3 | 2013.8 | 1714.5 | 1644.1 | 1670.4 | 1714.5 | 1731.4 | 1741.7 | 1739.8 |
| 32.5° | 3503.1 | 3255.3 | 2470.8 | 1821.4 | 1589.7 | 1567.1 | 1599.0 | 1644.1 | 1662.9 | 1668.5 | 1661.0 |
| 35°   | 3710.5 | 3351.1 | 2318.8 | 1641.3 | 1480.8 | 1493.9 | 1531.5 | 1545.6 | 1562.4 | 1562.4 | 1566.2 |
| 37.5° | 3933.8 | 3428.0 | 2133.0 | 1476.1 | 1396.3 | 1444.2 | 1471.4 | 1458.3 | 1450.8 | 1441.4 | 1446.1 |
| 40°   | 4160.9 | 3485.2 | 1891.8 | 1312.8 | 1311.9 | 1392.6 | 1400.1 | 1362.6 | 1332.5 | 1323.2 | 1318.5 |
| 42.5° | 4358.9 | 3520.9 | 1674.1 | 1186.1 | 1232.1 | 1341.9 | 1347.6 | 1287.5 | 1239.6 | 1211.5 | 1202.1 |
| 45°   | 4592.6 | 3562.2 | 1461.1 | 1081.0 | 1158.0 | 1301.6 | 1315.6 | 1234.9 | 1164.6 | 1105.4 | 1090.4 |
| 47.5° | 4912.6 | 3656.0 | 1293.1 | 999.4  | 1104.5 | 1276.2 | 1295.9 | 1191.8 | 1098.9 | 1021.9 | 1009.7 |
| 50°   | 5273.8 | 3784.6 | 1162.7 | 944.0  | 1063.2 | 1253.7 | 1278.1 | 1147.7 | 1037.9 | 952.5  | 943.1  |
| 52.5° | 5605.1 | 3854.0 | 1050.1 | 894.3  | 1022.9 | 1212.4 | 1254.7 | 1115.8 | 977.8  | 883.0  | 874.6  |
| 55°   | 5786.2 | 3741.4 | 939.3  | 845.5  | 967.5  | 1158.9 | 1221.8 | 1071.7 | 919.6  | 846.4  | 834.2  |
| 57.5° | 5810.6 | 3508.7 | 838.9  | 793.0  | 909.3  | 1093.2 | 1160.8 | 1018.2 | 882.1  | 821.1  | 810.8  |
| 60°   | 5622.0 | 3161.5 | 761.0  | 749.8  | 850.2  | 1019.1 | 1092.3 | 971.3  | 843.6  | 793.0  | 782.6  |
| 62.5° | 5152.8 | 2784.3 | 706.6  | 710.4  | 790.1  | 941.2  | 1041.6 | 926.2  | 807.0  | 762.0  | 752.6  |
| 65°   | 4345.8 | 2298.2 | 654.1  | 670.0  | 736.6  | 880.2  | 995.7  | 888.7  | 770.4  | 738.5  | 730.1  |
| 67.5° | 3018.9 | 1659.1 | 610.9  | 627.8  | 686.0  | 818.3  | 942.2  | 848.3  | 729.1  | 712.3  | 699.1  |
| 70°   | 1671.3 | 1021.0 | 560.2  | 579.9  | 633.4  | 748.8  | 882.1  | 787.3  | 669.1  | 661.6  | 642.8  |
| 72.5° | 878.3  | 650.3  | 503.0  | 524.6  | 562.1  | 659.7  | 790.1  | 720.7  | 610.0  | 578.1  | 553.7  |
| 74°   | 686.0  | 533.0  | 464.5  | 487.0  | 512.4  | 607.1  | 735.7  | 672.8  | 567.7  | 530.2  | 511.4  |
| 75°   | 597.8  | 474.8  | 431.7  | 460.8  | 483.3  | 571.5  | 693.5  | 639.1  | 544.3  | 508.6  | 491.7  |
| 77.5° | 422.3  | 355.7  | 352.8  | 387.6  | 399.8  | 501.1  | 625.0  | 581.8  | 485.2  | 447.6  | 431.7  |
| 80°   | 296.5  | 266.5  | 279.6  | 301.2  | 318.1  | 442.9  | 579.9  | 503.0  | 397.9  | 353.8  | 348.1  |
| 82.5° | 193.3  | 174.5  | 199.9  | 219.6  | 225.2  | 326.6  | 468.3  | 381.9  | 290.0  | 235.5  | 218.6  |
| 85°   | 89.1   | 87.3   | 114.5  | 111.7  | 110.7  | 159.5  | 277.8  | 223.3  | 167.0  | 124.8  | 117.3  |
| 87.5° | 22.5   | 21.6   | 28.2   | 23.5   | 28.2   | 24.4   | 25.3   | 6.6    | 0.9    | 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)