

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: P450868

Luminaire Tested: **GALN-SA1D-722-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-722-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5632 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

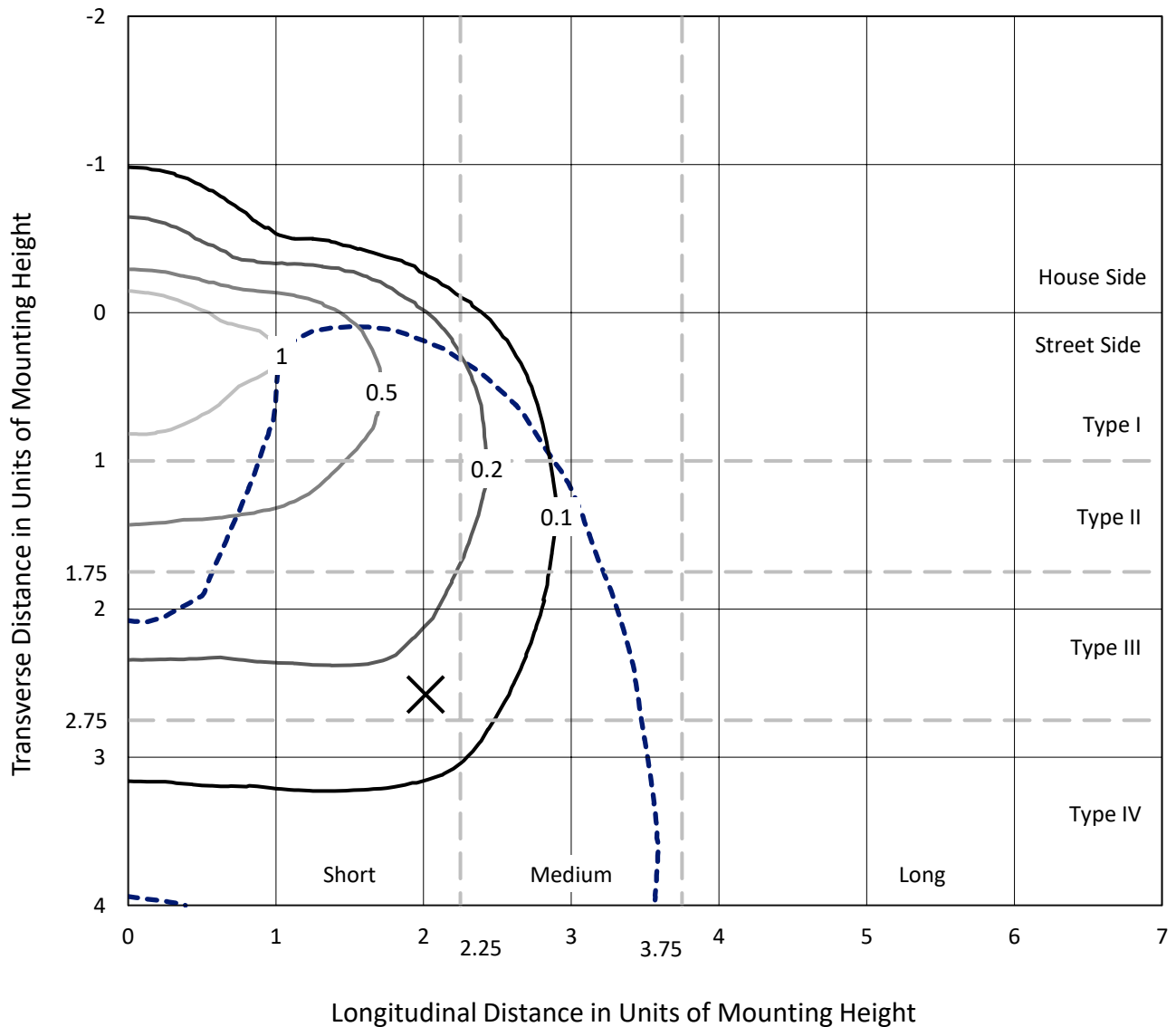
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

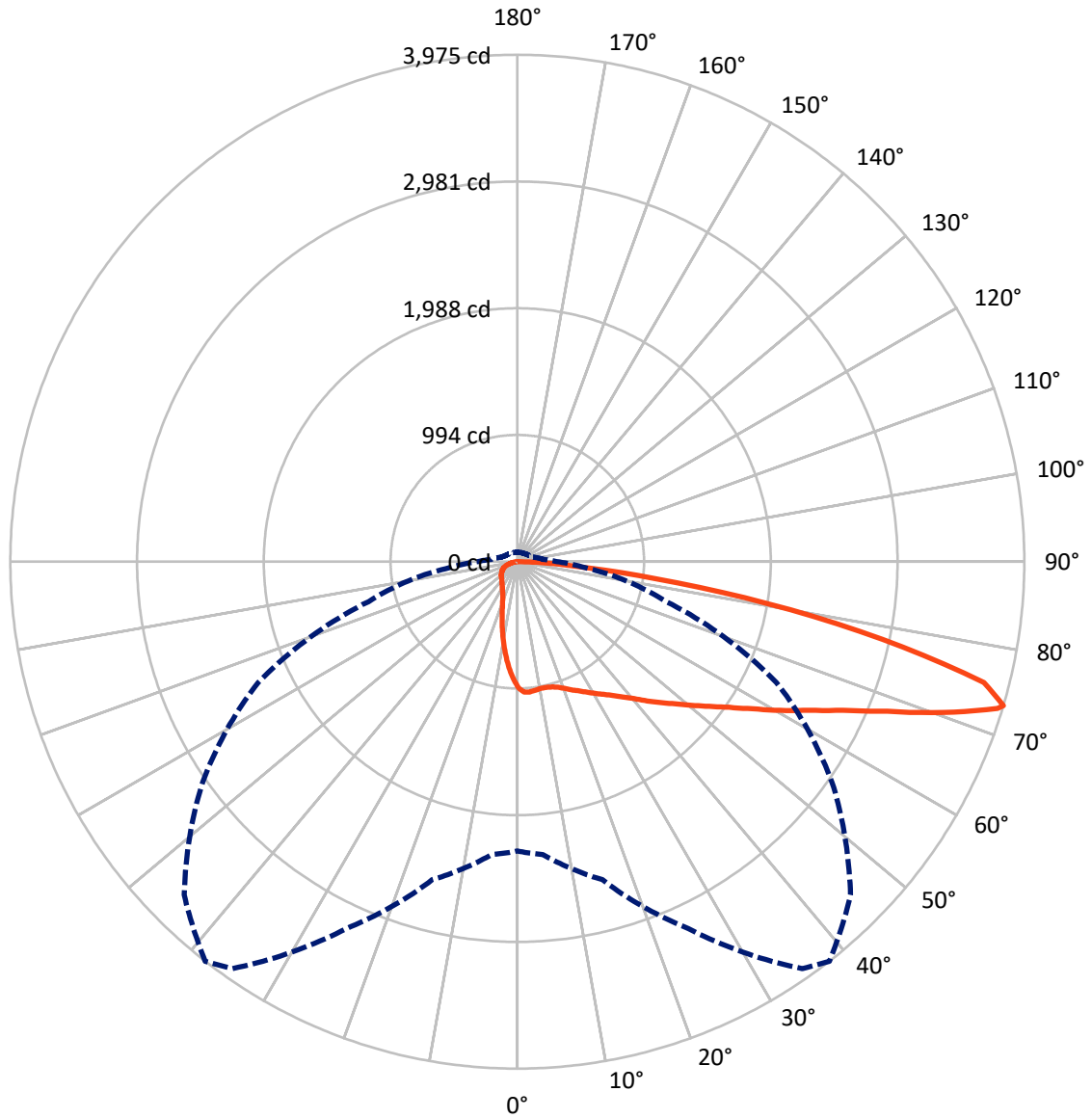
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 757.1    | 0.0    | 757.1  |
|                    | % Fixture | 13.4     | 0.0    | 13.4   |
| <b>Street Side</b> | Lumens    | 4874.9   | 0.0    | 4874.9 |
|                    | % Fixture | 86.6     | 0.0    | 86.6   |
| <b>Total</b>       | Lumens    | 5632.0   | 0.0    | 5632.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.4   | 1.5       |
| 10°-20°   | 221.5  | 3.9       |
| 20°-30°   | 344.9  | 6.1       |
| 30°-40°   | 505.9  | 9.0       |
| 40°-50°   | 750.4  | 13.3      |
| 50°-60°   | 1063.1 | 18.9      |
| 60°-70°   | 1348.6 | 23.9      |
| 70°-80°   | 1122.6 | 19.9      |
| 80°-90°   | 188.6  | 3.3       |
| 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°    | 5632.0 | 100.0     |
| 0°-180°   | 5632.0 | 100.0     |

**Coefficient of Utilization**



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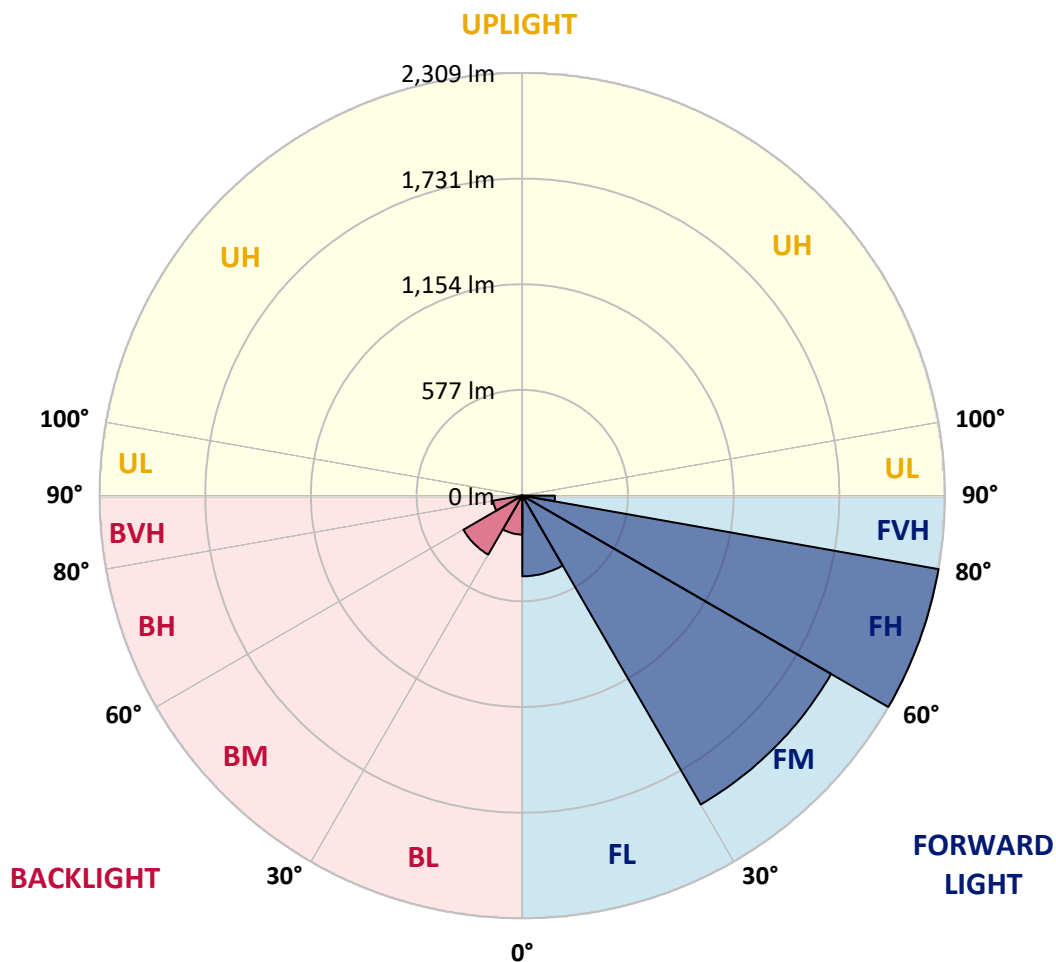
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 440.3  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 1947.7 | 34.6      |                         |      |         |
| FH   | (60°-80°)   | 2308.5 | 41.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 178.4  | 3.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 212.5  | 3.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 371.7  | 6.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 162.7  | 2.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.2   | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 989.4  | 989.4  | 989.4  | 989.4  | 989.4  | 989.4  | 989.4  | 989.4  | 989.4  | 989.4  | 989.4  |
| 2.5°  | 1029.2 | 1034.3 | 1031.7 | 1028.2 | 1026.0 | 1023.8 | 1020.6 | 1011.4 | 1004.1 | 996.1  | 983.7  |
| 5°    | 1036.8 | 1040.0 | 1037.8 | 1033.3 | 1028.2 | 1026.0 | 1020.0 | 1007.9 | 996.1  | 982.8  | 964.3  |
| 7.5°  | 1032.4 | 1033.7 | 1031.1 | 1025.7 | 1021.3 | 1017.1 | 1010.1 | 996.8  | 982.4  | 966.2  | 942.1  |
| 10°   | 1016.5 | 1021.3 | 1021.3 | 1016.8 | 1012.3 | 1010.1 | 1003.1 | 990.4  | 977.4  | 958.9  | 930.3  |
| 12.5° | 1003.4 | 1008.5 | 1012.7 | 1011.4 | 1011.1 | 1011.1 | 1005.7 | 996.1  | 980.9  | 963.4  | 929.3  |
| 15°   | 994.5  | 1000.6 | 1009.5 | 1014.6 | 1017.8 | 1018.7 | 1016.5 | 1008.2 | 992.6  | 972.3  | 933.2  |
| 17.5° | 992.6  | 999.9  | 1016.2 | 1027.3 | 1035.6 | 1035.2 | 1034.6 | 1023.2 | 1006.0 | 985.0  | 937.9  |
| 20°   | 1001.2 | 1010.8 | 1033.3 | 1050.8 | 1062.9 | 1060.7 | 1057.2 | 1042.2 | 1022.2 | 998.7  | 942.4  |
| 22.5° | 1027.0 | 1036.8 | 1061.6 | 1080.7 | 1092.5 | 1092.5 | 1082.0 | 1062.3 | 1041.0 | 1014.6 | 948.4  |
| 25°   | 1063.9 | 1074.7 | 1101.1 | 1120.5 | 1125.9 | 1121.8 | 1111.3 | 1087.4 | 1062.9 | 1037.5 | 961.1  |
| 27.5° | 1109.0 | 1122.1 | 1146.6 | 1162.8 | 1161.2 | 1158.0 | 1147.2 | 1116.7 | 1092.2 | 1069.0 | 982.8  |
| 30°   | 1165.3 | 1174.9 | 1200.3 | 1204.1 | 1198.4 | 1197.8 | 1182.5 | 1152.0 | 1129.1 | 1111.3 | 1013.6 |
| 32.5° | 1218.4 | 1227.0 | 1247.4 | 1249.0 | 1238.8 | 1240.1 | 1225.8 | 1197.8 | 1184.7 | 1178.4 | 1065.5 |
| 35°   | 1274.7 | 1279.2 | 1296.7 | 1294.8 | 1288.1 | 1287.1 | 1281.4 | 1254.7 | 1258.8 | 1270.3 | 1138.9 |
| 37.5° | 1321.8 | 1330.7 | 1340.6 | 1342.2 | 1341.8 | 1345.0 | 1348.8 | 1336.1 | 1360.0 | 1395.9 | 1235.3 |
| 40°   | 1365.1 | 1372.7 | 1387.3 | 1392.4 | 1404.8 | 1411.2 | 1424.2 | 1424.5 | 1479.6 | 1538.7 | 1353.9 |
| 42.5° | 1394.3 | 1407.4 | 1434.7 | 1443.9 | 1474.2 | 1493.2 | 1512.6 | 1533.3 | 1613.1 | 1689.2 | 1493.9 |
| 45°   | 1419.8 | 1436.9 | 1482.4 | 1511.0 | 1552.1 | 1575.3 | 1616.3 | 1659.6 | 1774.4 | 1873.9 | 1636.0 |
| 47.5° | 1458.2 | 1473.5 | 1525.7 | 1576.2 | 1638.3 | 1665.0 | 1726.4 | 1790.9 | 1941.0 | 2050.1 | 1772.2 |
| 50°   | 1511.7 | 1520.9 | 1574.0 | 1656.4 | 1735.6 | 1769.9 | 1851.0 | 1944.2 | 2119.2 | 2224.1 | 1891.7 |
| 52.5° | 1580.1 | 1583.9 | 1626.2 | 1735.9 | 1840.2 | 1882.8 | 1990.3 | 2099.1 | 2275.0 | 2375.2 | 1986.5 |
| 55°   | 1660.8 | 1654.5 | 1687.6 | 1820.2 | 1959.8 | 2015.5 | 2130.9 | 2255.9 | 2450.2 | 2497.3 | 2055.5 |
| 57.5° | 1740.7 | 1730.8 | 1757.2 | 1922.6 | 2107.4 | 2174.5 | 2309.0 | 2417.5 | 2606.7 | 2611.5 | 2103.9 |
| 60°   | 1825.3 | 1818.0 | 1849.4 | 2042.8 | 2288.4 | 2367.9 | 2492.2 | 2585.1 | 2758.1 | 2691.0 | 2111.5 |
| 62.5° | 1912.1 | 1900.3 | 1945.2 | 2178.0 | 2492.2 | 2564.4 | 2685.0 | 2763.2 | 2906.6 | 2720.6 | 2038.1 |
| 65°   | 1996.4 | 1991.0 | 2060.3 | 2338.6 | 2724.4 | 2806.5 | 2923.5 | 2976.6 | 3025.6 | 2676.1 | 1855.8 |
| 67.5° | 2086.1 | 2096.9 | 2207.6 | 2553.0 | 3027.2 | 3130.2 | 3256.5 | 3206.6 | 3059.6 | 2465.2 | 1562.9 |
| 70°   | 2222.8 | 2229.8 | 2400.9 | 2833.8 | 3417.4 | 3541.8 | 3602.8 | 3288.3 | 2895.5 | 2064.8 | 1174.9 |
| 72.5° | 2281.7 | 2312.5 | 2573.6 | 3128.6 | 3860.8 | 3936.8 | 3719.3 | 3106.1 | 2412.1 | 1402.6 | 617.3  |
| 73°   | 2268.6 | 2305.5 | 2581.6 | 3173.5 | 3895.5 | 3975.3 | 3694.4 | 3012.2 | 2242.2 | 1207.9 | 529.2  |
| 75°   | 2106.1 | 2151.6 | 2478.2 | 3136.0 | 3828.0 | 3780.3 | 3295.6 | 2567.3 | 1515.2 | 549.3  | 241.1  |
| 77.5° | 1661.8 | 1674.8 | 1963.6 | 2532.3 | 3014.5 | 2926.0 | 2466.5 | 1604.6 | 618.9  | 204.2  | 136.8  |
| 80°   | 833.6  | 881.6  | 1106.8 | 1450.6 | 2015.8 | 1986.8 | 1556.8 | 758.9  | 257.9  | 119.9  | 90.6   |
| 82.5° | 401.1  | 435.1  | 539.1  | 707.3  | 1113.8 | 1087.4 | 770.9  | 414.7  | 163.8  | 70.0   | 53.4   |
| 85°   | 258.3  | 283.7  | 343.2  | 337.4  | 458.0  | 437.3  | 346.4  | 313.9  | 97.0   | 36.6   | 37.2   |
| 87.5° | 170.5  | 186.7  | 223.9  | 179.1  | 166.7  | 150.8  | 153.0  | 176.8  | 19.1   | 14.0   | 5.1    |
| 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°    | 989.4  | 989.4  | 989.4 | 989.4 | 989.4 | 989.4 | 989.4 | 989.4 | 989.4 | 989.4 | 989.4 |
| 2.5°  | 978.6  | 974.5  | 960.8 | 947.5 | 934.7 | 922.7 | 914.7 | 904.2 | 897.2 | 899.1 | 902.0 |
| 5°    | 954.1  | 944.9  | 920.7 | 897.2 | 874.9 | 848.6 | 827.2 | 810.1 | 797.0 | 792.3 | 791.3 |
| 7.5°  | 928.4  | 912.8  | 878.1 | 837.7 | 799.9 | 767.1 | 729.3 | 710.5 | 688.6 | 680.9 | 678.4 |
| 10°   | 912.8  | 891.8  | 843.1 | 786.9 | 729.9 | 675.5 | 634.5 | 601.1 | 570.9 | 565.2 | 562.3 |
| 12.5° | 908.3  | 880.7  | 815.2 | 742.6 | 666.9 | 600.2 | 539.4 | 495.5 | 466.3 | 459.6 | 449.7 |
| 15°   | 905.8  | 871.5  | 789.1 | 698.1 | 602.1 | 520.6 | 456.7 | 405.5 | 378.8 | 361.0 | 361.3 |
| 17.5° | 903.6  | 861.0  | 759.8 | 649.5 | 546.1 | 452.3 | 381.7 | 335.5 | 311.1 | 301.5 | 300.6 |
| 20°   | 900.4  | 848.6  | 726.1 | 598.2 | 482.2 | 389.9 | 326.0 | 291.6 | 275.1 | 267.2 | 266.8 |
| 22.5° | 899.1  | 836.5  | 693.0 | 546.1 | 425.5 | 341.9 | 289.1 | 264.9 | 254.4 | 249.0 | 249.0 |
| 25°   | 902.3  | 827.9  | 658.4 | 496.5 | 375.3 | 300.9 | 263.7 | 247.1 | 241.1 | 238.2 | 237.3 |
| 27.5° | 912.2  | 824.1  | 624.0 | 446.9 | 329.2 | 272.9 | 246.5 | 235.0 | 230.6 | 228.4 | 228.7 |
| 30°   | 930.9  | 823.7  | 590.3 | 397.9 | 294.8 | 251.6 | 232.8 | 224.9 | 221.4 | 220.1 | 219.8 |
| 32.5° | 961.1  | 830.7  | 557.2 | 357.5 | 265.9 | 233.8 | 220.1 | 214.4 | 212.8 | 211.8 | 211.5 |
| 35°   | 1012.3 | 850.5  | 524.5 | 320.6 | 243.6 | 217.9 | 208.0 | 205.1 | 202.9 | 203.9 | 204.2 |
| 37.5° | 1081.4 | 884.5  | 493.3 | 291.6 | 226.8 | 206.1 | 197.8 | 195.3 | 194.0 | 195.0 | 195.9 |
| 40°   | 1173.9 | 933.5  | 467.2 | 268.4 | 214.7 | 196.2 | 188.9 | 186.7 | 185.4 | 187.0 | 187.3 |
| 42.5° | 1276.0 | 990.1  | 445.6 | 250.3 | 204.8 | 188.0 | 181.0 | 178.4 | 177.5 | 178.4 | 178.7 |
| 45°   | 1381.0 | 1055.9 | 434.5 | 237.3 | 196.6 | 181.9 | 174.6 | 171.7 | 169.5 | 168.9 | 169.8 |
| 47.5° | 1484.3 | 1113.2 | 434.1 | 229.3 | 189.9 | 176.5 | 168.6 | 165.4 | 162.5 | 160.9 | 160.6 |
| 50°   | 1568.6 | 1158.6 | 441.8 | 225.8 | 184.1 | 170.5 | 162.5 | 159.3 | 155.5 | 152.3 | 153.0 |
| 52.5° | 1632.2 | 1188.2 | 445.3 | 224.2 | 181.0 | 164.1 | 156.2 | 153.3 | 148.8 | 144.7 | 144.7 |
| 55°   | 1673.2 | 1195.2 | 436.7 | 222.6 | 178.4 | 157.4 | 148.8 | 146.3 | 141.8 | 137.7 | 137.7 |
| 57.5° | 1687.2 | 1173.6 | 405.8 | 218.8 | 175.9 | 151.7 | 141.5 | 139.3 | 135.8 | 131.7 | 131.0 |
| 60°   | 1654.8 | 1100.4 | 351.8 | 207.4 | 170.8 | 145.7 | 133.6 | 132.6 | 131.4 | 127.9 | 127.5 |
| 62.5° | 1529.8 | 945.2  | 292.9 | 192.4 | 162.2 | 139.3 | 126.3 | 127.9 | 128.8 | 126.9 | 126.6 |
| 65°   | 1321.8 | 767.4  | 250.3 | 171.7 | 150.8 | 130.4 | 118.3 | 122.4 | 125.0 | 125.0 | 124.4 |
| 67.5° | 1072.1 | 589.3  | 210.9 | 153.9 | 136.4 | 118.3 | 109.4 | 112.6 | 114.5 | 113.9 | 115.5 |
| 70°   | 762.0  | 399.2  | 171.7 | 133.6 | 118.3 | 104.6 | 98.0  | 98.0  | 96.7  | 96.1  | 96.1  |
| 72.5° | 369.6  | 228.0  | 139.3 | 111.6 | 100.8 | 89.4  | 84.0  | 81.7  | 79.2  | 78.9  | 77.3  |
| 73°   | 308.8  | 204.5  | 132.9 | 107.5 | 96.7  | 87.1  | 81.1  | 77.6  | 76.0  | 74.7  | 74.4  |
| 75°   | 188.0  | 155.2  | 111.0 | 90.6  | 82.4  | 75.1  | 69.7  | 66.5  | 64.9  | 63.9  | 63.6  |
| 77.5° | 123.7  | 115.8  | 86.2  | 69.3  | 63.0  | 58.5  | 56.3  | 53.1  | 52.2  | 50.9  | 50.9  |
| 80°   | 92.2   | 88.4   | 61.7  | 49.0  | 45.2  | 41.3  | 40.7  | 40.1  | 37.5  | 35.9  | 35.3  |
| 82.5° | 59.5   | 63.0   | 42.0  | 32.8  | 28.6  | 25.4  | 25.8  | 26.7  | 24.2  | 21.9  | 21.3  |
| 85°   | 42.3   | 45.5   | 25.4  | 14.9  | 12.1  | 10.5  | 11.8  | 10.5  | 10.8  | 8.6   | 7.0   |
| 87.5° | 7.0    | 12.1   | 4.5   | 1.9   | 1.0   | 0.6   | 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)