

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P630821

Luminaire Tested: GWS-SA1E-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630821  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-740-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

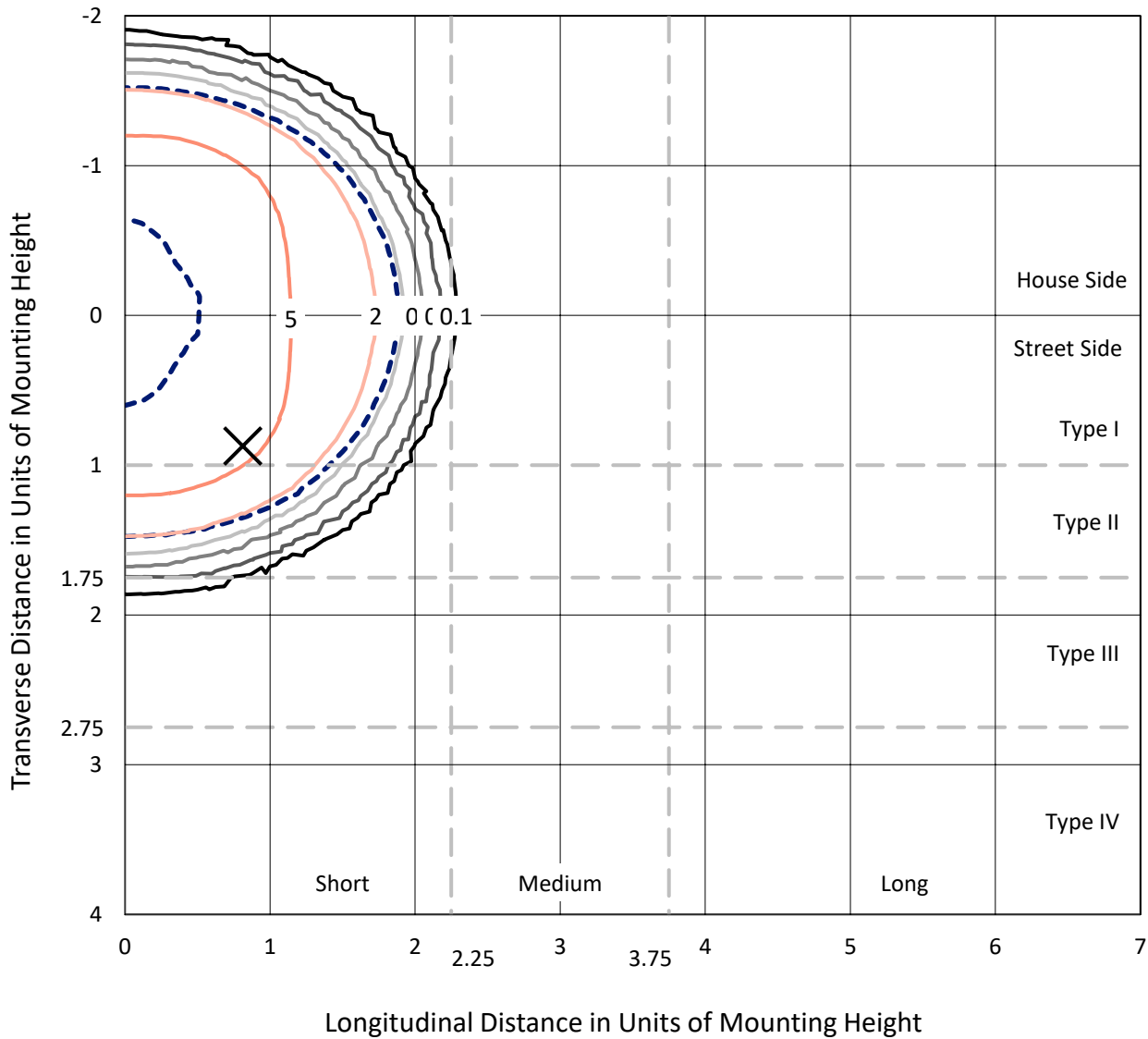
Lumens per Lamp: N/A  
Luminaire Lumens: 4911.2 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

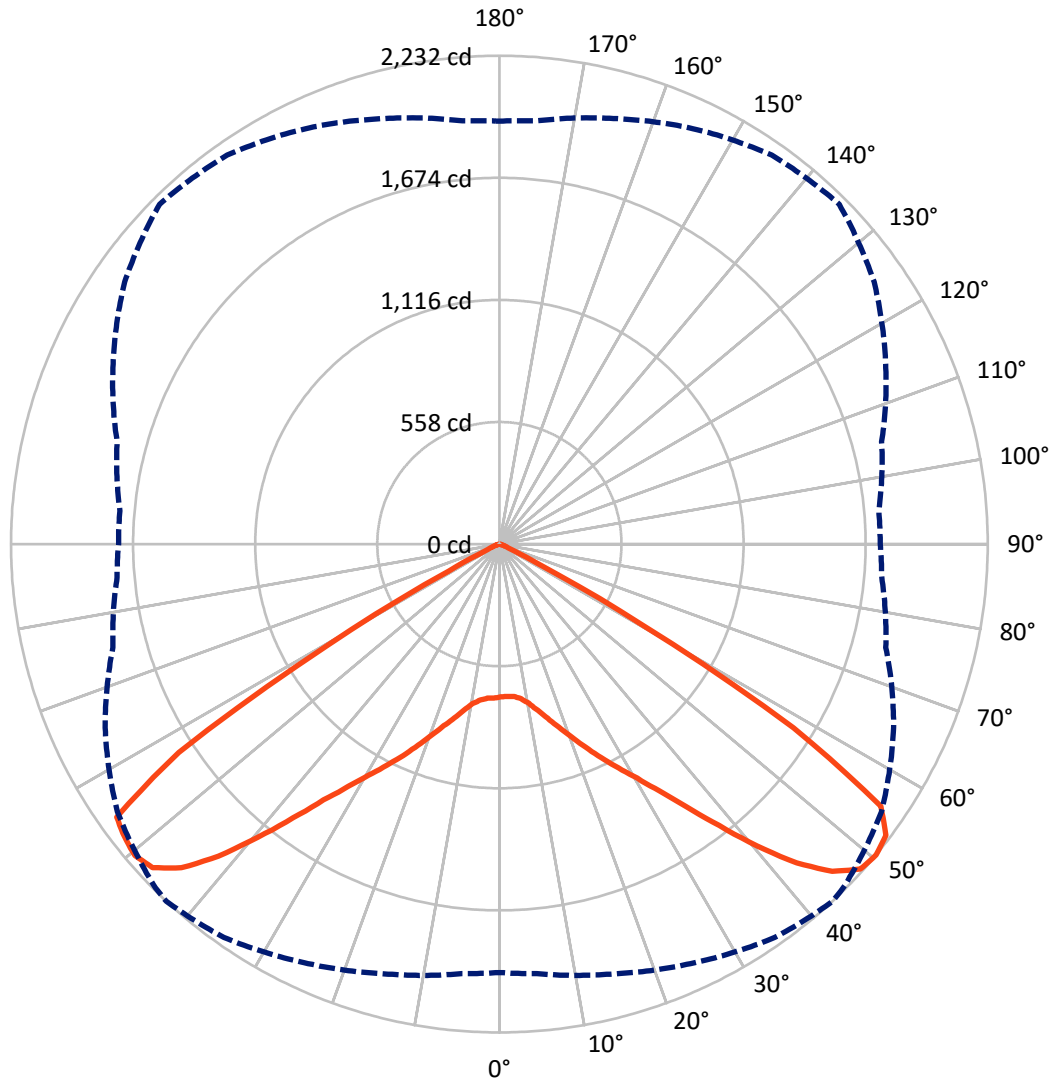
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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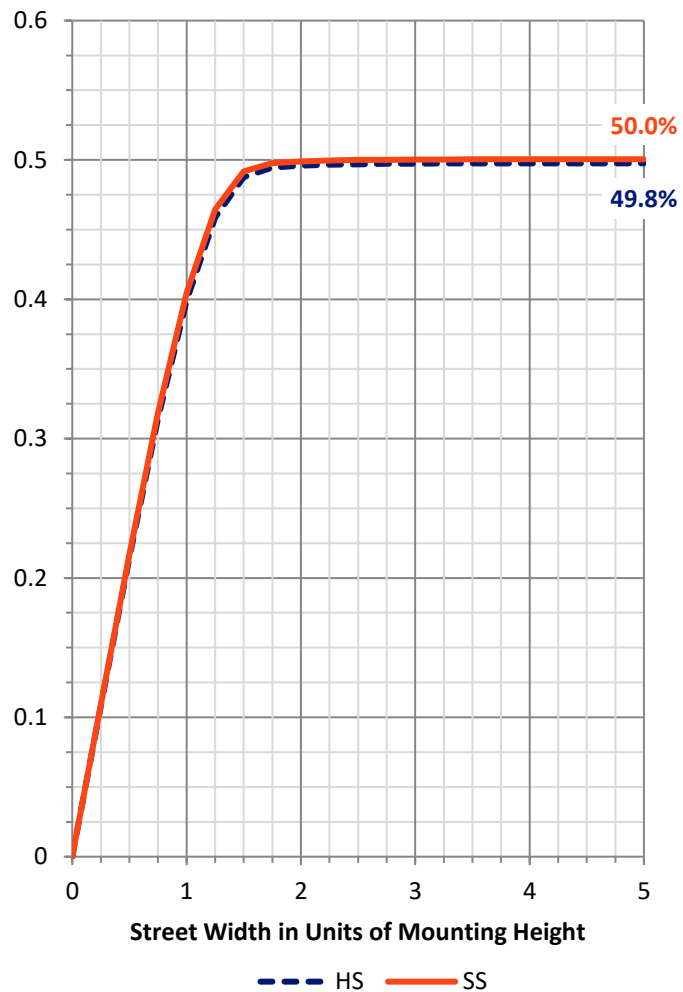
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2455.5   | 0.0    | 2455.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2455.7   | 0.0    | 2455.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4911.2   | 0.0    | 4911.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.8   | 1.4       |
| 10°-20°   | 236.7  | 4.8       |
| 20°-30°   | 478.9  | 9.8       |
| 30°-40°   | 888.6  | 18.1      |
| 40°-50°   | 1475.0 | 30.0      |
| 50°-60°   | 1505.3 | 30.7      |
| 60°-70°   | 246.8  | 5.0       |
| 70°-80°   | 10.8   | 0.2       |
| 80°-90°   | 0.1    | 0.0       |
| 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°    | 4911.2 | 100.0     |
| 0°-180°   | 4911.2 | 100.0     |

**Coefficient of Utilization**



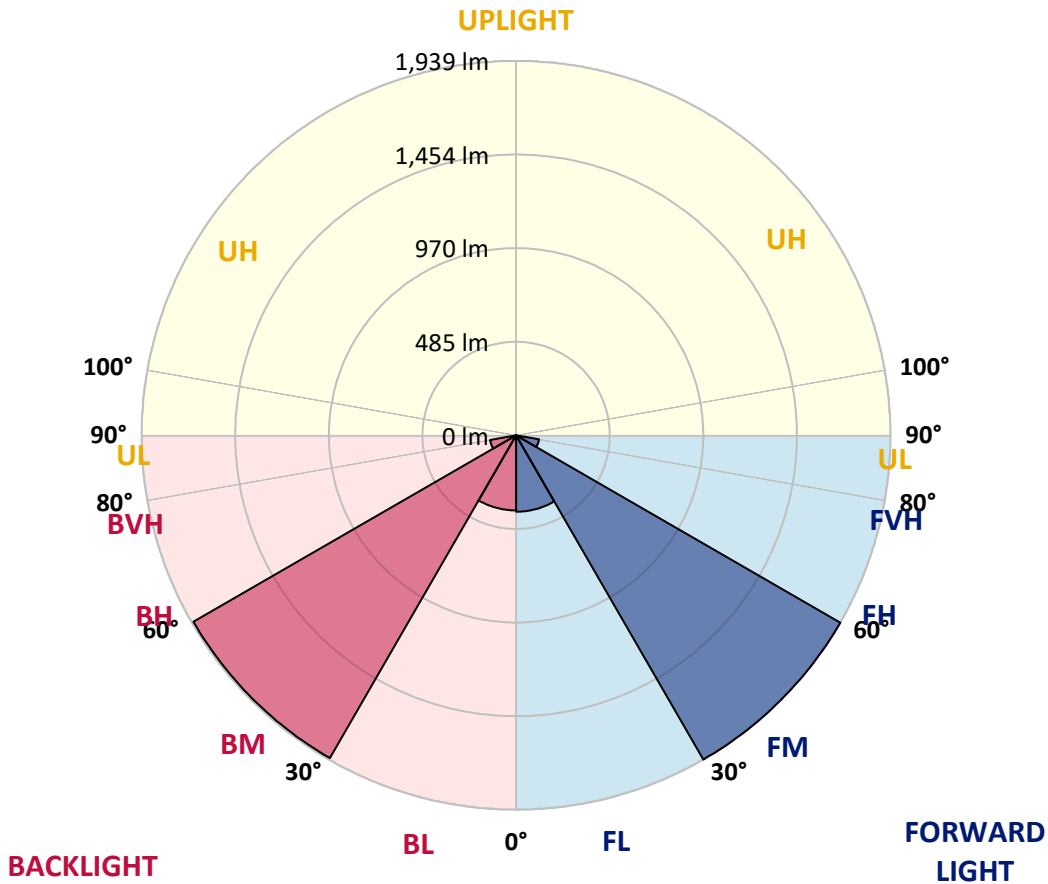
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 395.7  | 8.1       |                         |      |        |
| FM (30°-60°)   | 1939.2 | 39.5      |                         |      |        |
| FH (60°-80°)   | 120.8  | 2.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.0    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 388.8  | 7.9       | B1/500                  |      |        |
| BM (30°-60°)   | 1929.8 | 39.3      | B2/2500                 |      |        |
| BH (60°-80°)   | 136.9  | 2.8       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 0.1    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 43°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  |
| 2.5°  | 685.5  | 687.1  | 689.3  | 691.5  | 694.2  | 696.9  | 698.5  | 703.4  | 702.3  | 706.7  | 706.7  |
| 5°    | 677.9  | 679.5  | 682.2  | 687.1  | 693.1  | 699.1  | 703.4  | 713.2  | 718.6  | 727.3  | 730.6  |
| 7.5°  | 681.7  | 683.9  | 687.1  | 694.7  | 704.0  | 713.2  | 718.1  | 733.8  | 744.7  | 761.0  | 770.2  |
| 10°   | 694.2  | 696.4  | 701.8  | 714.8  | 726.8  | 739.8  | 745.8  | 765.9  | 783.3  | 805.5  | 818.6  |
| 12.5° | 708.3  | 711.0  | 721.9  | 741.5  | 762.1  | 779.5  | 787.6  | 809.9  | 827.8  | 852.8  | 873.4  |
| 15°   | 723.0  | 727.3  | 744.2  | 773.0  | 802.3  | 825.6  | 834.3  | 858.2  | 876.2  | 902.8  | 926.1  |
| 17.5° | 757.2  | 762.1  | 781.1  | 812.1  | 852.3  | 879.4  | 887.0  | 912.0  | 925.6  | 943.5  | 968.0  |
| 20°   | 800.1  | 809.4  | 832.7  | 870.2  | 914.2  | 940.3  | 945.7  | 970.1  | 969.0  | 976.7  | 997.8  |
| 22.5° | 853.3  | 859.9  | 885.4  | 929.9  | 979.4  | 1008.2 | 1020.7 | 1031.0 | 1017.4 | 1010.9 | 1024.5 |
| 25°   | 908.8  | 916.4  | 944.1  | 992.9  | 1048.4 | 1081.5 | 1091.8 | 1100.0 | 1078.2 | 1053.8 | 1055.4 |
| 27.5° | 980.5  | 985.9  | 1013.0 | 1065.2 | 1120.6 | 1158.1 | 1167.3 | 1181.4 | 1152.6 | 1113.5 | 1102.7 |
| 30°   | 1065.7 | 1071.2 | 1100.0 | 1154.8 | 1209.7 | 1241.7 | 1255.9 | 1273.2 | 1241.7 | 1192.8 | 1180.3 |
| 32.5° | 1165.7 | 1171.1 | 1208.1 | 1264.5 | 1309.6 | 1344.4 | 1358.0 | 1376.4 | 1351.5 | 1296.6 | 1282.5 |
| 35°   | 1285.2 | 1288.4 | 1331.9 | 1393.3 | 1441.1 | 1474.8 | 1484.0 | 1505.7 | 1478.0 | 1423.2 | 1415.5 |
| 37.5° | 1423.7 | 1427.5 | 1474.8 | 1545.9 | 1594.8 | 1632.3 | 1646.9 | 1652.9 | 1619.2 | 1557.9 | 1551.9 |
| 40°   | 1575.8 | 1588.3 | 1634.5 | 1711.0 | 1765.9 | 1813.2 | 1826.2 | 1806.1 | 1758.8 | 1675.2 | 1664.3 |
| 42.5° | 1734.4 | 1745.3 | 1796.9 | 1880.0 | 1943.5 | 1991.9 | 1992.4 | 1949.0 | 1868.6 | 1752.9 | 1736.6 |
| 45°   | 1866.4 | 1870.7 | 1937.6 | 2021.2 | 2099.4 | 2133.6 | 2136.9 | 2058.1 | 1937.0 | 1798.0 | 1763.2 |
| 47.5° | 1957.1 | 1964.2 | 2022.3 | 2102.7 | 2189.1 | 2220.0 | 2213.5 | 2115.2 | 1969.6 | 1827.3 | 1769.7 |
| 50°   | 1958.2 | 1970.1 | 2033.2 | 2110.8 | 2194.5 | 2232.0 | 2222.7 | 2131.5 | 1988.1 | 1828.4 | 1754.0 |
| 52.5° | 1784.9 | 1804.5 | 1907.1 | 2019.6 | 2147.8 | 2211.9 | 2214.0 | 2152.7 | 1981.0 | 1811.0 | 1739.8 |
| 55°   | 1346.6 | 1367.7 | 1497.0 | 1688.8 | 1936.5 | 2115.2 | 2146.1 | 2127.7 | 1972.9 | 1818.6 | 1764.8 |
| 57.5° | 712.7  | 696.4  | 768.1  | 958.2  | 1269.4 | 1585.6 | 1676.3 | 1824.0 | 1882.1 | 1827.8 | 1811.0 |
| 60°   | 155.4  | 165.7  | 220.5  | 297.1  | 495.4  | 745.8  | 834.3  | 1087.5 | 1388.4 | 1522.0 | 1618.7 |
| 62.5° | 66.8   | 65.7   | 68.4   | 77.7   | 113.5  | 189.0  | 230.9  | 377.0  | 594.8  | 817.0  | 967.4  |
| 65°   | 54.9   | 55.4   | 57.6   | 57.6   | 53.8   | 54.3   | 57.0   | 86.4   | 139.1  | 195.0  | 261.8  |
| 67.5° | 41.3   | 41.8   | 45.6   | 46.7   | 44.0   | 39.1   | 38.6   | 32.6   | 34.2   | 42.9   | 44.5   |
| 70°   | 26.1   | 26.1   | 28.2   | 29.3   | 29.3   | 27.2   | 26.6   | 23.4   | 22.8   | 26.1   | 29.3   |
| 72.5° | 14.1   | 14.1   | 15.2   | 15.8   | 15.2   | 14.7   | 14.7   | 14.1   | 13.6   | 15.8   | 20.1   |
| 75°   | 6.0    | 6.0    | 6.5    | 6.5    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 7.1    | 10.9   |
| 77.5° | 1.1    | 1.6    | 2.2    | 1.6    | 1.1    | 1.1    | 1.1    | 1.6    | 1.6    | 2.2    | 3.3    |
| 80°   | 0.5    | 0.5    | 1.1    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    |
| 82.5° | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  | 698.5  |
| 2.5°  | 710.5  | 704.5  | 706.7  | 707.8  | 706.1  | 705.1  | 699.1  | 697.5  | 694.7  | 690.4  | 689.3  |
| 5°    | 734.4  | 729.5  | 729.0  | 725.7  | 718.1  | 708.9  | 697.5  | 692.6  | 687.1  | 681.7  | 680.6  |
| 7.5°  | 774.6  | 768.6  | 764.8  | 753.9  | 736.6  | 721.9  | 702.9  | 692.6  | 685.5  | 678.4  | 676.8  |
| 10°   | 826.2  | 819.1  | 808.3  | 788.2  | 764.8  | 743.6  | 721.4  | 707.8  | 696.9  | 687.1  | 686.6  |
| 12.5° | 881.1  | 873.4  | 853.9  | 828.4  | 800.1  | 780.6  | 752.3  | 733.3  | 717.0  | 702.3  | 700.7  |
| 15°   | 938.6  | 929.4  | 902.8  | 872.4  | 846.3  | 826.2  | 795.2  | 764.8  | 739.8  | 718.6  | 716.5  |
| 17.5° | 982.6  | 971.2  | 939.7  | 916.9  | 895.7  | 875.1  | 840.3  | 800.1  | 767.0  | 741.5  | 735.5  |
| 20°   | 1010.3 | 999.5  | 969.6  | 957.1  | 947.3  | 932.7  | 891.4  | 849.5  | 812.6  | 781.1  | 775.7  |
| 22.5° | 1036.9 | 1023.9 | 997.8  | 997.8  | 1005.4 | 999.5  | 954.9  | 907.1  | 863.7  | 827.3  | 819.1  |
| 25°   | 1066.8 | 1056.5 | 1038.0 | 1053.2 | 1072.3 | 1071.7 | 1026.1 | 966.3  | 916.4  | 875.6  | 867.5  |
| 27.5° | 1110.3 | 1100.0 | 1093.4 | 1122.2 | 1146.1 | 1144.5 | 1094.5 | 1029.9 | 977.2  | 937.0  | 929.4  |
| 30°   | 1186.9 | 1177.1 | 1170.0 | 1204.8 | 1235.2 | 1223.8 | 1168.9 | 1106.5 | 1053.2 | 1007.6 | 1002.2 |
| 32.5° | 1289.0 | 1278.7 | 1269.4 | 1304.2 | 1331.4 | 1316.7 | 1264.5 | 1205.9 | 1144.5 | 1100.0 | 1089.1 |
| 35°   | 1423.2 | 1401.4 | 1392.2 | 1433.5 | 1444.9 | 1428.6 | 1378.6 | 1327.0 | 1261.8 | 1210.8 | 1203.7 |
| 37.5° | 1561.7 | 1536.1 | 1529.6 | 1565.5 | 1583.9 | 1578.0 | 1519.3 | 1465.5 | 1394.9 | 1338.4 | 1330.3 |
| 40°   | 1680.1 | 1656.7 | 1645.3 | 1701.3 | 1743.1 | 1746.9 | 1694.2 | 1628.5 | 1545.4 | 1486.7 | 1472.0 |
| 42.5° | 1749.6 | 1729.5 | 1726.8 | 1813.7 | 1882.1 | 1931.0 | 1868.0 | 1800.1 | 1712.7 | 1646.4 | 1634.5 |
| 45°   | 1765.4 | 1752.3 | 1775.1 | 1889.2 | 1995.7 | 2084.8 | 2031.0 | 1959.3 | 1864.8 | 1794.7 | 1783.3 |
| 47.5° | 1763.7 | 1759.4 | 1800.1 | 1928.3 | 2063.0 | 2172.8 | 2146.1 | 2065.2 | 1973.9 | 1900.6 | 1889.8 |
| 50°   | 1740.4 | 1740.9 | 1808.8 | 1947.9 | 2090.2 | 2196.7 | 2170.0 | 2095.1 | 2013.6 | 1941.4 | 1932.7 |
| 52.5° | 1731.1 | 1727.9 | 1792.5 | 1941.9 | 2117.9 | 2185.8 | 2126.0 | 2041.8 | 1951.1 | 1862.1 | 1849.0 |
| 55°   | 1763.7 | 1755.6 | 1794.7 | 1937.0 | 2121.2 | 2179.8 | 2022.3 | 1839.8 | 1654.0 | 1548.6 | 1539.9 |
| 57.5° | 1812.6 | 1803.9 | 1822.4 | 1901.2 | 1951.1 | 1812.6 | 1488.3 | 1193.9 | 1002.7 | 921.8  | 886.5  |
| 60°   | 1618.7 | 1612.7 | 1598.6 | 1503.5 | 1289.5 | 972.9  | 662.7  | 422.6  | 303.6  | 245.5  | 245.5  |
| 62.5° | 1004.4 | 996.2  | 919.6  | 683.3  | 496.5  | 287.3  | 158.1  | 98.9   | 75.0   | 70.1   | 69.5   |
| 65°   | 281.9  | 280.3  | 231.9  | 164.0  | 104.3  | 64.6   | 57.0   | 58.1   | 57.0   | 55.4   | 54.9   |
| 67.5° | 42.4   | 46.7   | 46.7   | 38.0   | 36.4   | 40.7   | 47.8   | 51.1   | 48.3   | 45.6   | 44.5   |
| 70°   | 27.2   | 29.3   | 28.2   | 24.4   | 26.1   | 30.4   | 34.2   | 34.8   | 33.1   | 30.4   | 29.9   |
| 72.5° | 19.0   | 21.2   | 17.4   | 15.8   | 16.3   | 17.9   | 19.6   | 19.6   | 19.0   | 17.9   | 16.8   |
| 75°   | 11.4   | 11.4   | 8.1    | 7.6    | 7.6    | 8.1    | 8.1    | 9.2    | 9.2    | 8.7    | 8.1    |
| 77.5° | 3.8    | 4.3    | 2.7    | 2.2    | 2.2    | 2.2    | 2.7    | 3.3    | 3.3    | 2.7    | 2.2    |
| 80°   | 0.5    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.1    | 1.1    | 0.5    |
| 82.5° | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)