

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: P946729

Luminaire Tested: **GALN-SB2B-750-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2B-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

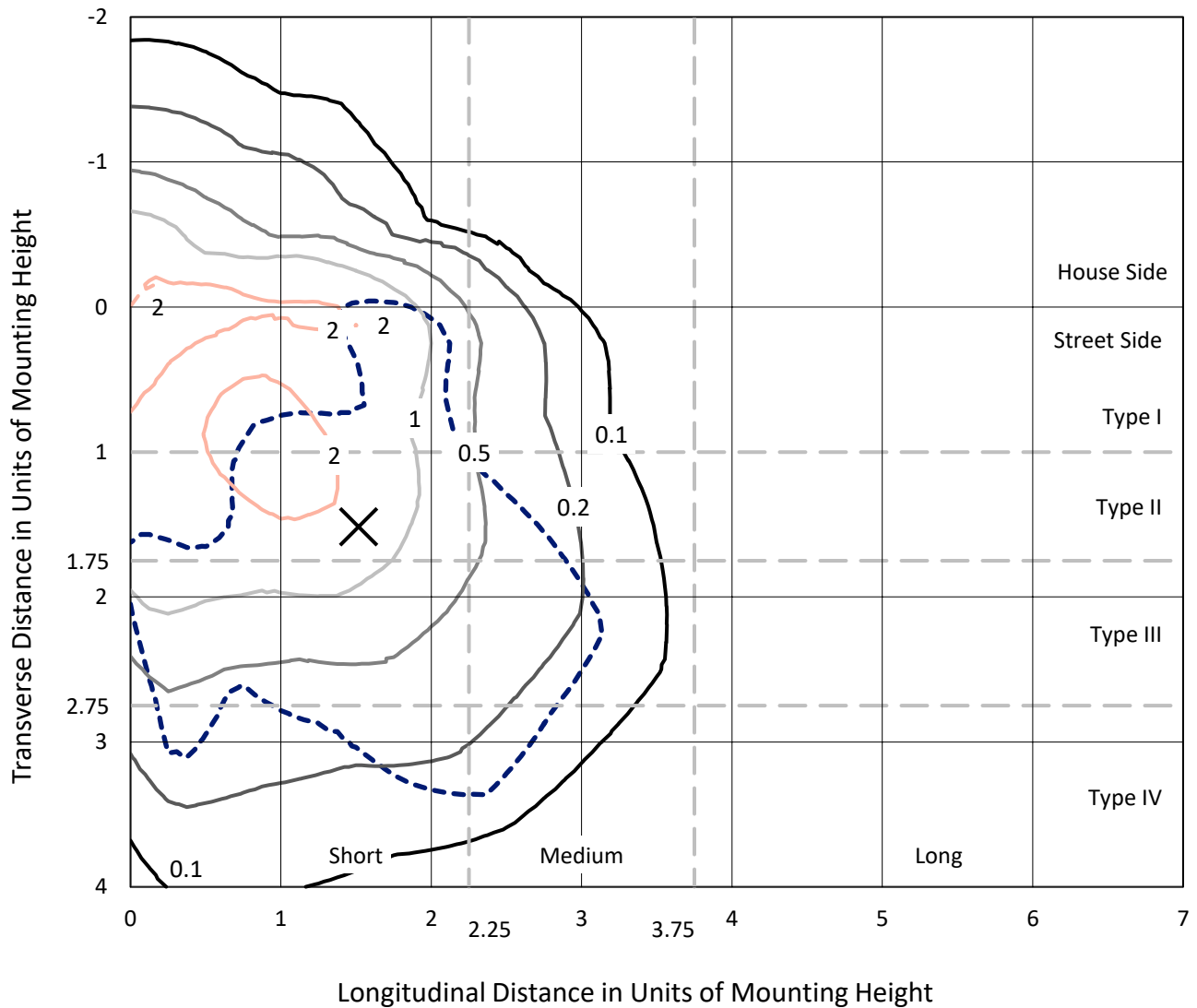
Lumens per Lamp: N/A  
Luminaire Lumens: 9093 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

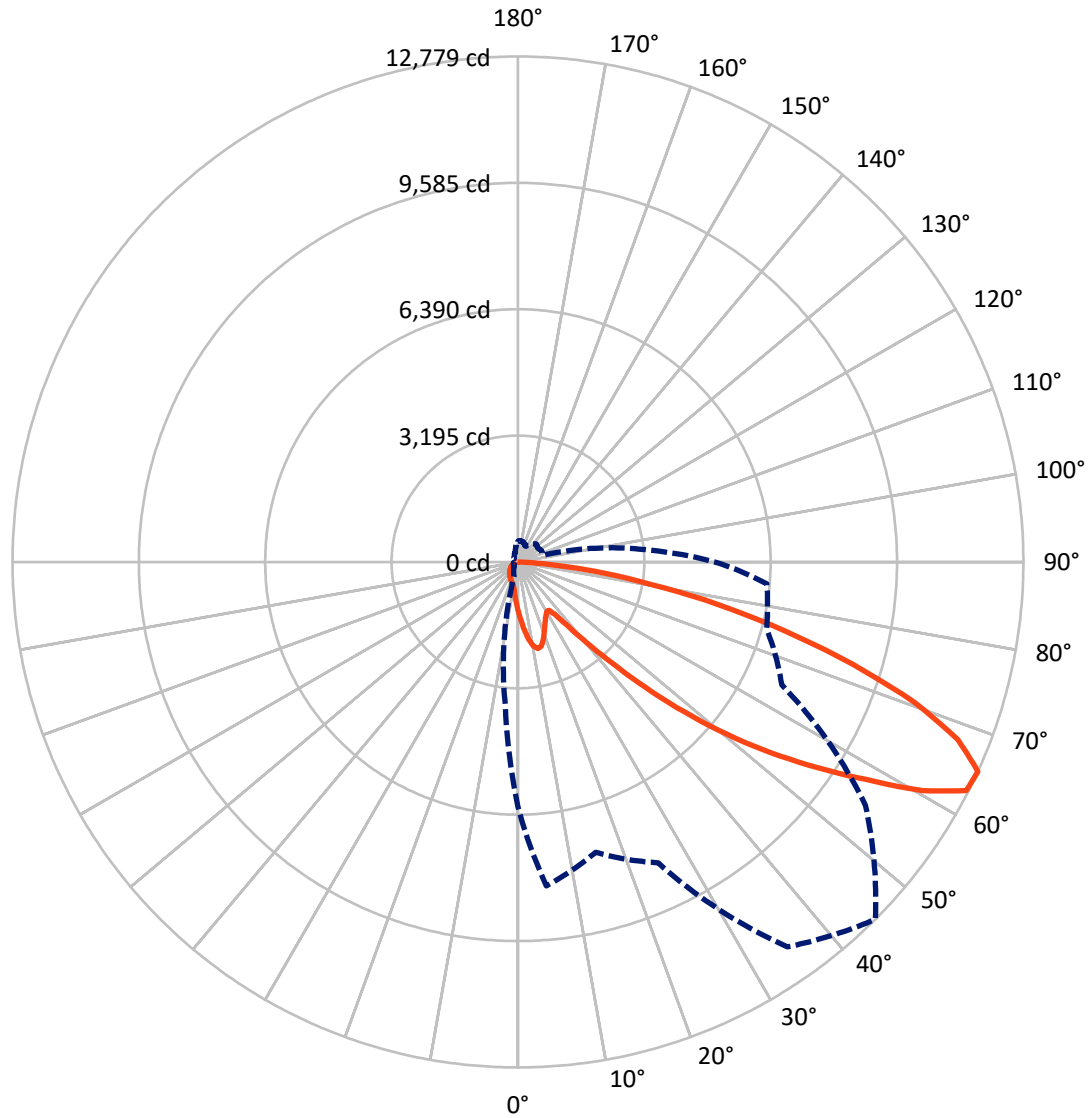
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1807.4   | 0.0    | 1807.4 |
|                    | % Fixture | 19.9     | 0.0    | 19.9   |
| <b>Street Side</b> | Lumens    | 7285.6   | 0.0    | 7285.6 |
|                    | % Fixture | 80.1     | 0.0    | 80.1   |
| <b>Total</b>       | Lumens    | 9093.0   | 0.0    | 9093.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.0  | 1.4       |
| 10°-20°   | 371.6  | 4.1       |
| 20°-30°   | 547.4  | 6.0       |
| 30°-40°   | 703.3  | 7.7       |
| 40°-50°   | 1137.5 | 12.5      |
| 50°-60°   | 1994.7 | 21.9      |
| 60°-70°   | 2495.9 | 27.4      |
| 70°-80°   | 1458.5 | 16.0      |
| 80°-90°   | 260.2  | 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°    | 9093.0 | 100.0     |
| 0°-180°   | 9093.0 | 100.0     |



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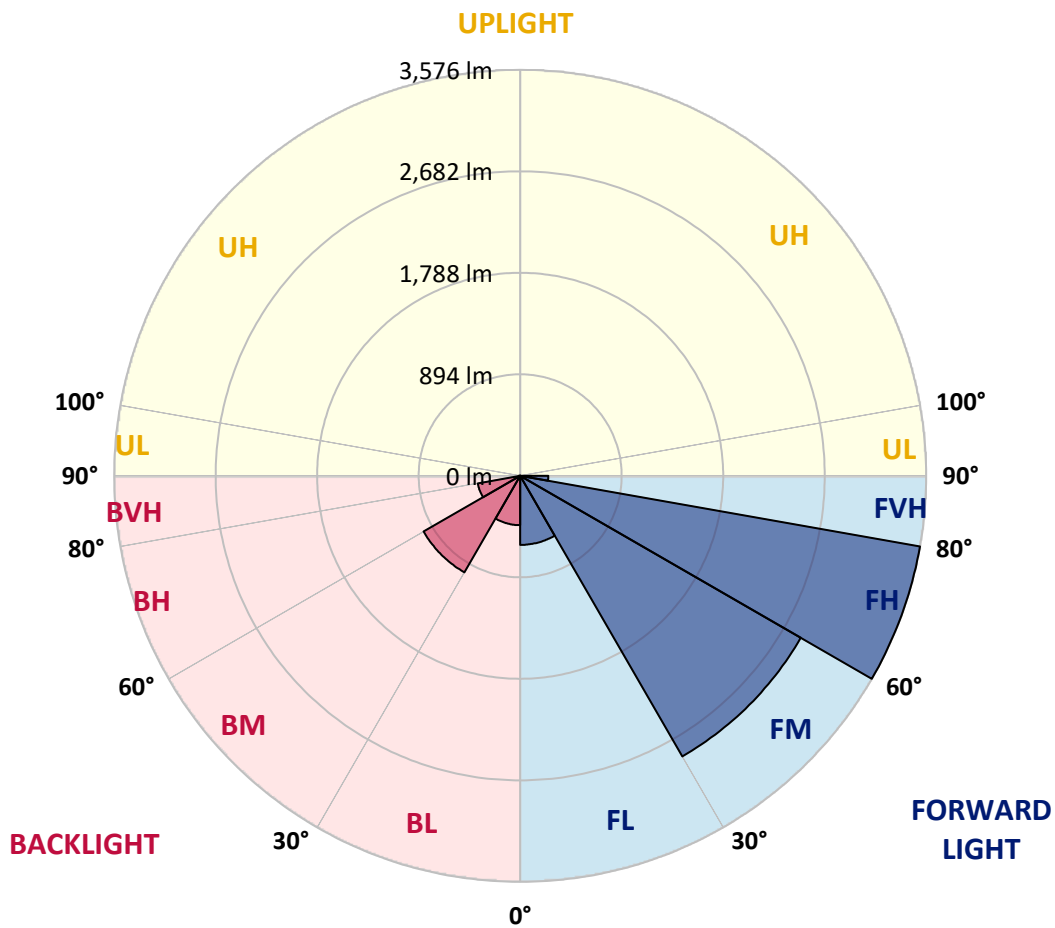
CATALOG NUMBER: GALN-SB2B-750-U-SLL-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 608.4  | 6.7       |                         |      |         |
| FM (30°-60°)   | 2853.5 | 31.4      |                         |      |         |
| FH (60°-80°)   | 3575.7 | 39.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 248.0  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 434.6  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 982.0  | 10.8      | B1/1000                 |      |         |
| BH (60°-80°)   | 378.7  | 4.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 12.2   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0°    | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1  | 1259.1  | 1259.1  | 1259.1 | 1259.1 | 1259.1 |
| 2.5°  | 1410.7 | 1421.3 | 1445.1 | 1457.7 | 1477.1  | 1478.3  | 1478.3  | 1461.4 | 1460.8 | 1426.3 |
| 5°    | 1576.7 | 1601.7 | 1658.1 | 1716.4 | 1728.9  | 1732.0  | 1725.8  | 1691.9 | 1666.9 | 1599.9 |
| 7.5°  | 1741.4 | 1789.7 | 1875.5 | 1953.2 | 1978.2  | 1978.2  | 1963.2  | 1908.1 | 1856.7 | 1759.6 |
| 10°   | 1878.0 | 1938.7 | 2055.3 | 2142.3 | 2171.1  | 2164.9  | 2134.2  | 2064.7 | 1993.9 | 1876.1 |
| 12.5° | 1968.2 | 2036.5 | 2164.3 | 2234.4 | 2263.9  | 2247.6  | 2212.5  | 2144.8 | 2070.3 | 1946.3 |
| 15°   | 2013.3 | 2084.7 | 2195.6 | 2232.5 | 2224.4  | 2207.5  | 2203.1  | 2170.5 | 2114.1 | 1998.3 |
| 17.5° | 2032.7 | 2099.1 | 2176.2 | 2153.0 | 2084.1  | 2070.9  | 2114.8  | 2156.1 | 2142.3 | 2043.4 |
| 20°   | 2050.9 | 2106.6 | 2129.8 | 2027.1 | 1906.8  | 1894.9  | 1978.8  | 2096.6 | 2156.7 | 2085.3 |
| 22.5° | 2075.9 | 2110.4 | 2062.8 | 1894.3 | 1764.6  | 1737.0  | 1829.8  | 2007.0 | 2161.1 | 2138.6 |
| 25°   | 2110.4 | 2119.8 | 1988.9 | 1768.4 | 1638.1  | 1610.5  | 1697.0  | 1907.4 | 2153.6 | 2196.2 |
| 27.5° | 2151.7 | 2132.3 | 1918.1 | 1663.1 | 1537.2  | 1511.5  | 1598.0  | 1811.6 | 2132.3 | 2253.8 |
| 30°   | 2205.6 | 2148.6 | 1847.9 | 1581.7 | 1465.2  | 1446.4  | 1529.7  | 1728.9 | 2106.0 | 2327.1 |
| 32.5° | 2260.1 | 2155.5 | 1782.8 | 1534.1 | 1448.9  | 1455.8  | 1524.1  | 1684.4 | 2077.2 | 2397.3 |
| 35°   | 2319.0 | 2177.4 | 1750.8 | 1581.1 | 1584.8  | 1645.0  | 1673.1  | 1725.8 | 2072.8 | 2492.5 |
| 37.5° | 2399.2 | 2226.3 | 1789.0 | 1814.7 | 1945.0  | 2069.7  | 2046.5  | 1928.1 | 2123.5 | 2634.7 |
| 40°   | 2514.4 | 2312.1 | 1955.7 | 2212.5 | 2480.0  | 2682.3  | 2594.0  | 2295.8 | 2278.9 | 2839.5 |
| 42.5° | 2682.3 | 2448.6 | 2251.3 | 2698.6 | 3152.1  | 3485.4  | 3248.6  | 2770.0 | 2550.8 | 3132.1 |
| 45°   | 2930.4 | 2669.8 | 2609.0 | 3211.6 | 3980.9  | 4505.8  | 4013.4  | 3275.5 | 2931.6 | 3574.9 |
| 47.5° | 3274.3 | 2994.9 | 2944.1 | 3752.2 | 4988.1  | 5667.2  | 4861.6  | 3744.1 | 3365.1 | 4178.8 |
| 50°   | 3730.9 | 3432.7 | 3261.7 | 4343.5 | 6092.5  | 6851.1  | 5709.1  | 4196.3 | 3861.8 | 4916.7 |
| 52.5° | 4333.5 | 4043.5 | 3631.9 | 4906.7 | 7228.2  | 8009.9  | 6560.4  | 4593.5 | 4478.2 | 5773.0 |
| 55°   | 5155.4 | 4962.4 | 4138.1 | 5444.2 | 8363.2  | 9175.7  | 7378.5  | 4968.1 | 5292.6 | 6790.3 |
| 57.5° | 6175.2 | 6313.0 | 4867.9 | 6067.4 | 9383.7  | 10377.2 | 8200.4  | 5491.8 | 6349.9 | 7927.9 |
| 60°   | 6832.9 | 8108.9 | 6265.4 | 6988.9 | 10543.2 | 11735.8 | 9326.7  | 6487.8 | 7461.2 | 8335.7 |
| 62.5° | 6673.8 | 8680.2 | 7939.2 | 8165.3 | 11609.3 | 12723.7 | 10430.4 | 7488.1 | 7670.4 | 7734.9 |
| 65°   | 6185.8 | 8219.2 | 7597.8 | 8393.9 | 11879.3 | 12779.4 | 10725.4 | 7359.1 | 6506.5 | 6314.9 |
| 67.5° | 5514.3 | 7672.3 | 6786.6 | 7787.6 | 11391.3 | 12000.2 | 10176.1 | 6509.7 | 5028.2 | 4738.8 |
| 70°   | 4789.6 | 7067.2 | 6254.1 | 7107.3 | 10461.1 | 10642.1 | 9242.1  | 5725.4 | 3698.3 | 3200.3 |
| 72.5° | 4101.8 | 6437.0 | 5889.5 | 6410.1 | 9220.2  | 8845.6  | 8026.2  | 5032.0 | 2692.9 | 2308.3 |
| 75°   | 3398.3 | 5507.4 | 5370.2 | 5582.0 | 7588.4  | 6967.6  | 6668.8  | 4166.3 | 2113.5 | 1670.0 |
| 77.5° | 2622.2 | 4303.5 | 4619.2 | 4470.1 | 5341.4  | 5175.4  | 5169.2  | 3130.8 | 1544.1 | 1114.4 |
| 80°   | 1794.7 | 2999.3 | 3608.8 | 3153.4 | 3466.6  | 3382.0  | 3893.2  | 2100.4 | 1120.0 | 670.9  |
| 82.5° | 1054.9 | 1826.0 | 2511.9 | 1526.6 | 1916.8  | 1967.6  | 2318.4  | 1021.7 | 659.0  | 154.7  |
| 85°   | 427.8  | 721.0  | 982.2  | 597.6  | 924.6   | 779.9   | 880.1   | 286.9  | 183.5  | 3.8    |
| 87.5° | 107.7  | 230.5  | 161.6  | 67.0   | 107.1   | 98.3    | 77.7    | 35.1   | 7.5    | 0.0    |
| 90°   | 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1259.1 | 0°    | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 |
| 1422.6 | 2.5°  | 1398.2 | 1383.7 | 1348.0 | 1312.3 | 1283.5 | 1244.7 | 1219.0 | 1188.3 | 1158.9 | 1132.6 |
| 1585.5 | 5°    | 1546.0 | 1498.4 | 1433.2 | 1373.7 | 1313.0 | 1254.1 | 1195.8 | 1134.4 | 1078.1 | 1043.6 |
| 1723.3 | 7.5°  | 1666.3 | 1582.3 | 1495.9 | 1420.1 | 1346.8 | 1277.9 | 1200.8 | 1126.3 | 1038.0 | 991.0  |
| 1828.5 | 10°   | 1755.8 | 1645.6 | 1532.2 | 1445.1 | 1371.2 | 1304.2 | 1239.0 | 1163.9 | 1057.4 | 998.5  |
| 1892.4 | 12.5° | 1814.7 | 1683.8 | 1551.0 | 1451.4 | 1368.7 | 1316.7 | 1287.9 | 1258.5 | 1152.6 | 1083.7 |
| 1939.4 | 15°   | 1855.4 | 1710.7 | 1564.2 | 1437.0 | 1335.5 | 1297.3 | 1326.1 | 1359.9 | 1292.3 | 1212.7 |
| 1988.2 | 17.5° | 1899.9 | 1745.8 | 1569.8 | 1398.2 | 1271.0 | 1254.7 | 1329.2 | 1407.5 | 1404.4 | 1325.5 |
| 2034.6 | 20°   | 1946.9 | 1776.5 | 1566.0 | 1335.5 | 1192.7 | 1207.1 | 1302.3 | 1393.1 | 1431.4 | 1388.8 |
| 2087.8 | 22.5° | 1995.1 | 1805.9 | 1551.6 | 1254.1 | 1119.4 | 1164.5 | 1259.7 | 1339.3 | 1384.4 | 1371.2 |
| 2153.0 | 25°   | 2055.9 | 1847.3 | 1530.3 | 1166.4 | 1058.6 | 1121.3 | 1210.2 | 1274.7 | 1306.1 | 1305.4 |
| 2223.1 | 27.5° | 2128.6 | 1902.4 | 1519.1 | 1095.6 | 1015.4 | 1072.4 | 1151.3 | 1209.0 | 1230.9 | 1230.9 |
| 2310.2 | 30°   | 2213.1 | 1967.6 | 1506.5 | 1049.2 | 990.4  | 1021.7 | 1083.1 | 1139.4 | 1161.4 | 1161.4 |
| 2405.4 | 32.5° | 2307.1 | 2030.2 | 1476.5 | 1021.1 | 971.6  | 972.2  | 1011.0 | 1062.4 | 1088.7 | 1092.5 |
| 2524.4 | 35°   | 2419.8 | 2097.2 | 1410.7 | 998.5  | 949.6  | 924.0  | 942.8  | 985.3  | 1016.7 | 1024.8 |
| 2694.2 | 37.5° | 2567.7 | 2179.3 | 1316.7 | 965.3  | 915.8  | 873.2  | 877.6  | 910.2  | 944.6  | 957.2  |
| 2928.5 | 40°   | 2766.2 | 2275.8 | 1219.0 | 917.7  | 868.2  | 817.5  | 815.6  | 839.4  | 873.2  | 887.0  |
| 3245.4 | 42.5° | 3028.7 | 2391.6 | 1125.7 | 872.0  | 810.6  | 758.6  | 755.5  | 774.2  | 803.7  | 818.1  |
| 3663.9 | 45°   | 3364.5 | 2533.8 | 1045.5 | 836.3  | 754.2  | 702.8  | 701.6  | 717.2  | 742.9  | 758.0  |
| 4199.5 | 47.5° | 3831.1 | 2676.0 | 991.0  | 817.5  | 709.7  | 657.1  | 659.6  | 673.4  | 696.6  | 707.2  |
| 4892.9 | 50°   | 4439.4 | 2719.3 | 963.4  | 817.5  | 685.9  | 616.4  | 628.9  | 640.2  | 657.7  | 664.0  |
| 5724.2 | 52.5° | 5023.2 | 2576.4 | 938.4  | 822.5  | 689.1  | 581.9  | 608.9  | 617.0  | 632.1  | 634.6  |
| 6494.6 | 55°   | 5309.5 | 2215.0 | 903.9  | 823.7  | 708.5  | 552.5  | 592.6  | 607.6  | 613.3  | 612.6  |
| 6941.9 | 57.5° | 5211.1 | 1790.9 | 845.7  | 818.7  | 721.6  | 533.7  | 572.5  | 601.4  | 605.1  | 599.5  |
| 6856.7 | 60°   | 4866.0 | 1318.6 | 801.2  | 781.8  | 716.6  | 528.1  | 541.8  | 587.6  | 593.2  | 585.7  |
| 6200.2 | 62.5° | 4287.2 | 915.2  | 766.7  | 700.3  | 694.7  | 526.2  | 493.6  | 557.5  | 571.3  | 560.6  |
| 4983.7 | 65°   | 3375.1 | 646.5  | 660.2  | 613.9  | 647.1  | 516.2  | 443.5  | 521.2  | 540.0  | 523.7  |
| 3615.7 | 67.5° | 2283.9 | 466.7  | 535.0  | 556.3  | 570.0  | 493.6  | 407.2  | 479.8  | 504.9  | 483.6  |
| 2320.2 | 70°   | 1233.4 | 327.6  | 353.3  | 468.6  | 484.2  | 454.8  | 374.6  | 437.9  | 466.7  | 443.5  |
| 1649.3 | 72.5° | 728.5  | 235.5  | 247.4  | 376.5  | 403.4  | 400.3  | 338.3  | 389.0  | 424.1  | 396.5  |
| 1138.2 | 75°   | 401.5  | 159.1  | 176.6  | 273.1  | 327.6  | 308.8  | 290.7  | 329.5  | 365.2  | 338.3  |
| 713.5  | 77.5° | 179.8  | 95.2   | 122.8  | 179.2  | 257.5  | 211.7  | 224.9  | 256.8  | 290.0  | 261.8  |
| 397.1  | 80°   | 69.5   | 53.2   | 81.4   | 97.7   | 187.3  | 117.1  | 144.7  | 189.2  | 213.0  | 190.4  |
| 86.4   | 82.5° | 8.8    | 23.8   | 35.1   | 38.2   | 109.0  | 62.0   | 83.9   | 119.0  | 117.1  | 101.5  |
| 0.0    | 85°   | 0.0    | 4.4    | 5.0    | 2.5    | 47.0   | 22.6   | 27.6   | 38.8   | 36.3   | 27.6   |
| 0.0    | 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 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    |

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**CANDELA DISTRIBUTION (continued):**

| 185°   |       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1259.1 | 0°    | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 |
| 1127.5 | 2.5°  | 1096.8 | 1074.3 | 1063.0 | 1053.6 | 1062.4 | 1067.4 | 1067.4 | 1088.7 | 1101.2 | 1106.2 |
| 1021.7 | 5°    | 966.6  | 924.6  | 896.4  | 879.5  | 885.1  | 891.4  | 898.3  | 925.2  | 943.4  | 955.3  |
| 948.4  | 7.5°  | 863.8  | 799.9  | 760.5  | 739.8  | 742.9  | 747.3  | 752.9  | 779.3  | 797.4  | 813.1  |
| 934.6  | 10°   | 813.1  | 722.9  | 670.9  | 645.8  | 641.4  | 638.9  | 637.1  | 652.7  | 666.5  | 679.0  |
| 991.0  | 12.5° | 815.6  | 689.7  | 626.4  | 595.7  | 582.6  | 567.5  | 555.6  | 558.1  | 566.9  | 582.6  |
| 1091.8 | 15°   | 847.5  | 679.0  | 603.2  | 565.0  | 543.1  | 525.6  | 511.2  | 508.0  | 511.2  | 513.7  |
| 1207.1 | 17.5° | 890.8  | 677.8  | 583.2  | 535.6  | 513.0  | 498.6  | 485.5  | 481.1  | 481.7  | 484.8  |
| 1283.5 | 20°   | 925.2  | 674.0  | 560.6  | 507.4  | 487.3  | 474.8  | 461.7  | 457.3  | 458.5  | 459.2  |
| 1291.0 | 22.5° | 943.4  | 668.4  | 535.6  | 479.2  | 462.3  | 449.8  | 437.9  | 437.2  | 437.2  | 441.0  |
| 1250.3 | 25°   | 943.4  | 656.5  | 513.0  | 452.3  | 437.2  | 426.0  | 411.6  | 414.1  | 415.3  | 420.3  |
| 1187.1 | 27.5° | 920.8  | 633.9  | 494.9  | 429.1  | 413.4  | 402.2  | 389.0  | 392.1  | 394.0  | 399.7  |
| 1124.4 | 30°   | 892.0  | 607.0  | 474.2  | 407.2  | 389.0  | 380.9  | 369.6  | 370.8  | 373.3  | 379.6  |
| 1066.2 | 32.5° | 861.3  | 575.0  | 457.3  | 385.2  | 367.1  | 360.8  | 348.3  | 350.2  | 352.7  | 359.6  |
| 1008.5 | 35°   | 827.5  | 537.5  | 437.2  | 365.2  | 347.0  | 342.0  | 327.6  | 328.9  | 332.6  | 340.1  |
| 946.5  | 37.5° | 791.8  | 506.8  | 417.2  | 345.8  | 327.0  | 322.0  | 306.9  | 308.2  | 312.6  | 321.3  |
| 881.4  | 40°   | 756.7  | 476.7  | 395.9  | 325.1  | 306.3  | 301.9  | 285.6  | 286.9  | 291.9  | 301.3  |
| 815.6  | 42.5° | 718.5  | 453.5  | 368.3  | 303.8  | 283.8  | 279.4  | 264.3  | 266.2  | 271.9  | 281.3  |
| 754.8  | 45°   | 672.8  | 438.5  | 337.6  | 283.8  | 261.2  | 256.8  | 243.0  | 246.8  | 253.1  | 262.5  |
| 702.8  | 47.5° | 625.8  | 432.2  | 312.0  | 262.5  | 238.0  | 234.3  | 223.0  | 229.3  | 236.2  | 243.7  |
| 658.4  | 50°   | 580.7  | 424.1  | 285.6  | 242.4  | 218.0  | 214.2  | 206.7  | 214.9  | 221.8  | 228.6  |
| 626.4  | 52.5° | 529.3  | 406.5  | 261.8  | 224.9  | 201.1  | 199.8  | 196.1  | 203.6  | 209.8  | 216.1  |
| 598.9  | 55°   | 476.1  | 378.4  | 241.2  | 209.2  | 186.7  | 187.9  | 186.0  | 192.3  | 197.3  | 203.0  |
| 573.8  | 57.5° | 429.7  | 342.6  | 224.9  | 192.3  | 174.1  | 177.9  | 175.4  | 178.5  | 181.7  | 188.6  |
| 543.7  | 60°   | 382.7  | 300.1  | 206.7  | 172.3  | 161.6  | 166.0  | 159.1  | 158.5  | 159.7  | 161.6  |
| 499.3  | 62.5° | 319.5  | 255.6  | 184.2  | 154.7  | 147.8  | 149.7  | 136.6  | 126.5  | 126.5  | 128.4  |
| 437.2  | 65°   | 256.8  | 214.2  | 159.1  | 134.7  | 129.0  | 127.8  | 109.0  | 95.2   | 94.0   | 99.6   |
| 365.2  | 67.5° | 211.1  | 177.9  | 134.1  | 112.1  | 108.4  | 109.6  | 95.8   | 82.1   | 80.8   | 87.1   |
| 297.5  | 70°   | 174.8  | 143.4  | 107.1  | 86.4   | 90.2   | 95.8   | 82.1   | 68.9   | 67.0   | 72.7   |
| 241.8  | 72.5° | 139.1  | 112.1  | 82.1   | 63.9   | 74.5   | 81.4   | 67.0   | 54.5   | 53.2   | 58.3   |
| 186.7  | 75°   | 102.1  | 80.2   | 55.8   | 46.4   | 57.6   | 63.9   | 48.9   | 38.8   | 37.0   | 41.3   |
| 124.7  | 77.5° | 63.3   | 45.1   | 35.1   | 27.6   | 39.5   | 42.6   | 25.7   | 22.6   | 21.9   | 25.1   |
| 75.8   | 80°   | 29.4   | 19.4   | 16.9   | 9.4    | 14.4   | 16.9   | 10.6   | 11.9   | 12.5   | 15.0   |
| 38.2   | 82.5° | 8.1    | 3.1    | 0.6    | 0.0    | 0.0    | 5.0    | 2.5    | 5.0    | 6.3    | 9.4    |
| 3.1    | 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 3.1    | 5.6    |
| 0.0    | 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.5    |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1259.1 | 0°    | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 | 1259.1 |
| 1141.3 | 2.5°  | 1167.6 | 1192.7 | 1232.8 | 1274.1 | 1314.8 | 1356.2 | 1396.3 | 1410.7 |
| 1009.8 | 5°    | 1059.3 | 1116.9 | 1196.4 | 1281.6 | 1369.3 | 1458.3 | 1539.7 | 1576.7 |
| 873.8  | 7.5°  | 938.4  | 1021.1 | 1140.7 | 1274.1 | 1413.8 | 1553.5 | 1681.9 | 1741.4 |
| 739.2  | 10°   | 809.3  | 913.9  | 1050.5 | 1230.9 | 1431.4 | 1624.3 | 1800.9 | 1878.0 |
| 620.8  | 12.5° | 686.5  | 796.2  | 947.1  | 1163.2 | 1417.6 | 1665.0 | 1877.4 | 1968.2 |
| 537.5  | 15°   | 583.8  | 680.9  | 843.8  | 1083.1 | 1373.1 | 1667.5 | 1913.7 | 2013.3 |
| 491.1  | 17.5° | 506.8  | 570.0  | 738.5  | 994.1  | 1314.8 | 1644.3 | 1926.2 | 2032.7 |
| 466.1  | 20°   | 468.6  | 486.1  | 602.0  | 880.1  | 1260.3 | 1622.4 | 1938.7 | 2050.9 |
| 446.0  | 22.5° | 446.0  | 450.4  | 492.4  | 732.9  | 1195.2 | 1615.5 | 1960.7 | 2075.9 |
| 427.8  | 25°   | 427.8  | 429.1  | 440.4  | 580.7  | 1095.6 | 1611.1 | 1994.5 | 2110.4 |
| 409.0  | 27.5° | 409.7  | 409.7  | 415.9  | 467.9  | 960.3  | 1592.3 | 2038.3 | 2151.7 |
| 390.3  | 30°   | 391.5  | 391.5  | 395.9  | 414.1  | 801.8  | 1555.4 | 2091.0 | 2205.6 |
| 371.5  | 32.5° | 372.7  | 372.7  | 376.5  | 389.6  | 640.2  | 1509.0 | 2139.2 | 2260.1 |
| 352.0  | 35°   | 353.9  | 352.7  | 357.7  | 371.5  | 509.3  | 1450.1 | 2187.4 | 2319.0 |
| 332.6  | 37.5° | 333.9  | 333.3  | 338.3  | 353.9  | 439.7  | 1381.9 | 2223.8 | 2399.2 |
| 313.2  | 40°   | 312.6  | 312.6  | 318.2  | 335.1  | 419.7  | 1296.0 | 2281.4 | 2514.4 |
| 293.2  | 42.5° | 293.2  | 291.9  | 298.2  | 318.8  | 404.7  | 1214.0 | 2384.8 | 2682.3 |
| 275.0  | 45°   | 274.4  | 271.9  | 277.5  | 303.2  | 378.4  | 1185.2 | 2577.7 | 2930.4 |
| 257.5  | 47.5° | 256.8  | 250.6  | 255.6  | 284.4  | 354.5  | 1292.9 | 2893.4 | 3274.3 |
| 241.8  | 50°   | 242.4  | 230.5  | 234.9  | 265.6  | 336.4  | 1526.6 | 3303.1 | 3730.9 |
| 227.4  | 52.5° | 227.4  | 211.7  | 214.2  | 242.4  | 320.1  | 1748.9 | 3747.2 | 4333.5 |
| 213.0  | 55°   | 211.7  | 194.2  | 195.4  | 219.2  | 296.9  | 1782.1 | 4180.7 | 5155.4 |
| 196.7  | 57.5° | 194.2  | 177.9  | 177.9  | 197.9  | 280.0  | 1544.7 | 4513.9 | 6175.2 |
| 176.6  | 60°   | 174.8  | 164.1  | 161.0  | 181.0  | 295.0  | 1090.0 | 4552.8 | 6832.9 |
| 151.0  | 62.5° | 153.5  | 147.8  | 143.4  | 164.7  | 306.3  | 645.8  | 4240.2 | 6673.8 |
| 119.0  | 65°   | 129.0  | 127.8  | 124.7  | 181.0  | 258.1  | 381.5  | 3640.1 | 6185.8 |
| 101.5  | 67.5° | 108.4  | 106.5  | 106.5  | 189.8  | 196.1  | 239.9  | 2843.9 | 5514.3 |
| 86.4   | 70°   | 93.3   | 86.4   | 86.4   | 143.4  | 119.0  | 166.0  | 1985.7 | 4789.6 |
| 71.4   | 72.5° | 78.3   | 70.8   | 65.8   | 114.6  | 89.0   | 121.5  | 1240.9 | 4101.8 |
| 54.5   | 75°   | 62.6   | 57.0   | 50.7   | 75.8   | 66.4   | 92.1   | 721.0  | 3398.3 |
| 34.5   | 77.5° | 45.1   | 42.6   | 35.7   | 55.8   | 48.2   | 66.4   | 429.1  | 2622.2 |
| 21.3   | 80°   | 23.2   | 23.8   | 22.6   | 31.9   | 32.6   | 45.1   | 244.3  | 1794.7 |
| 13.8   | 82.5° | 13.8   | 10.6   | 11.9   | 15.7   | 18.8   | 25.7   | 92.1   | 1054.9 |
| 10.0   | 85°   | 8.8    | 5.6    | 5.6    | 7.5    | 9.4    | 10.0   | 28.2   | 427.8  |
| 5.0    | 87.5° | 4.4    | 1.9    | 2.5    | 3.8    | 3.1    | 2.5    | 1.3    | 107.7  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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