

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: STREETWORKS

Report Number: P949272

Luminaire Tested: **GLAN-SB4A-827-U-SLR-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949272  
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: STREETWORKS  
Catalog Number: GLAN-SB4A-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

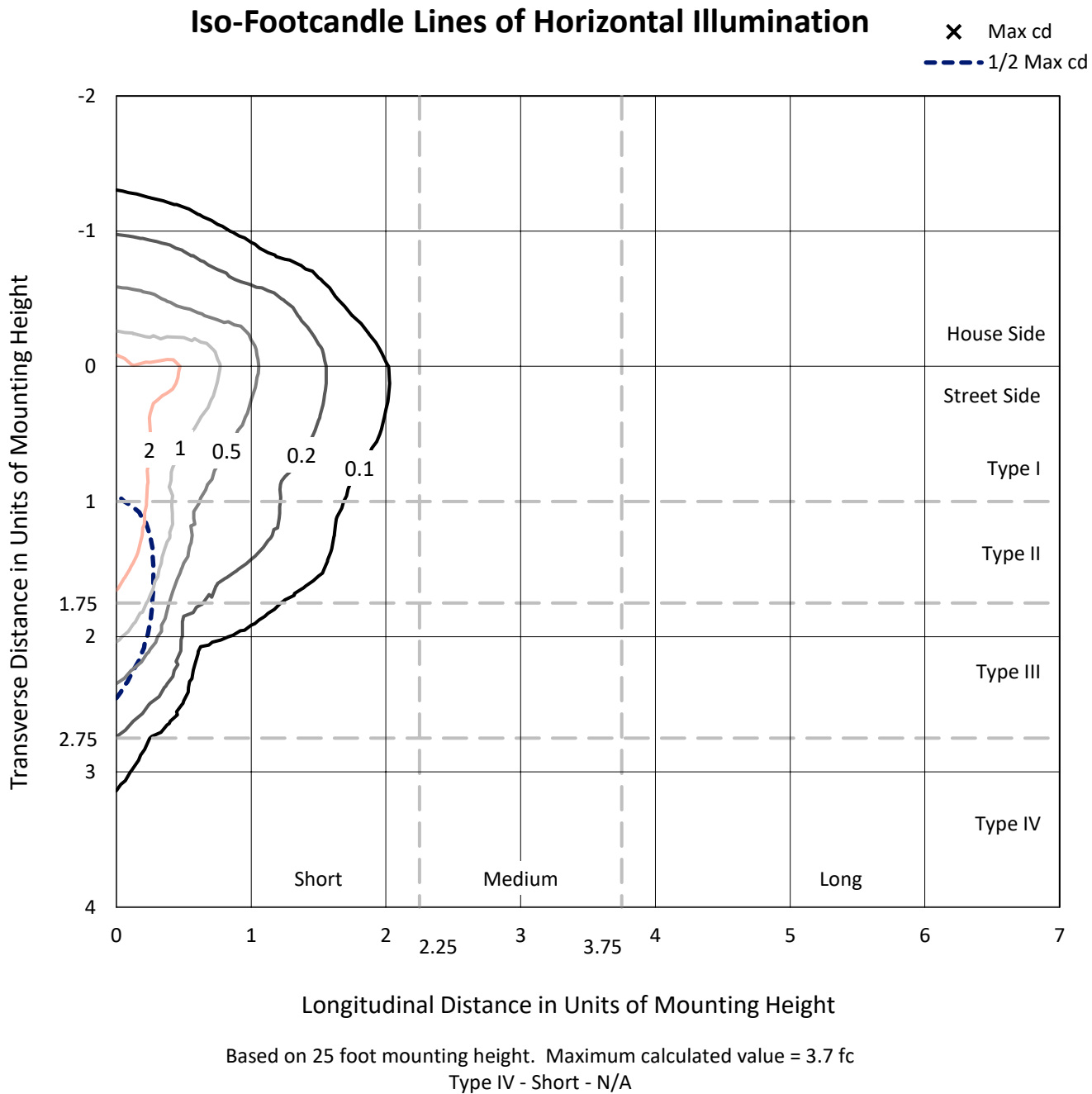
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11931 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 114  
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

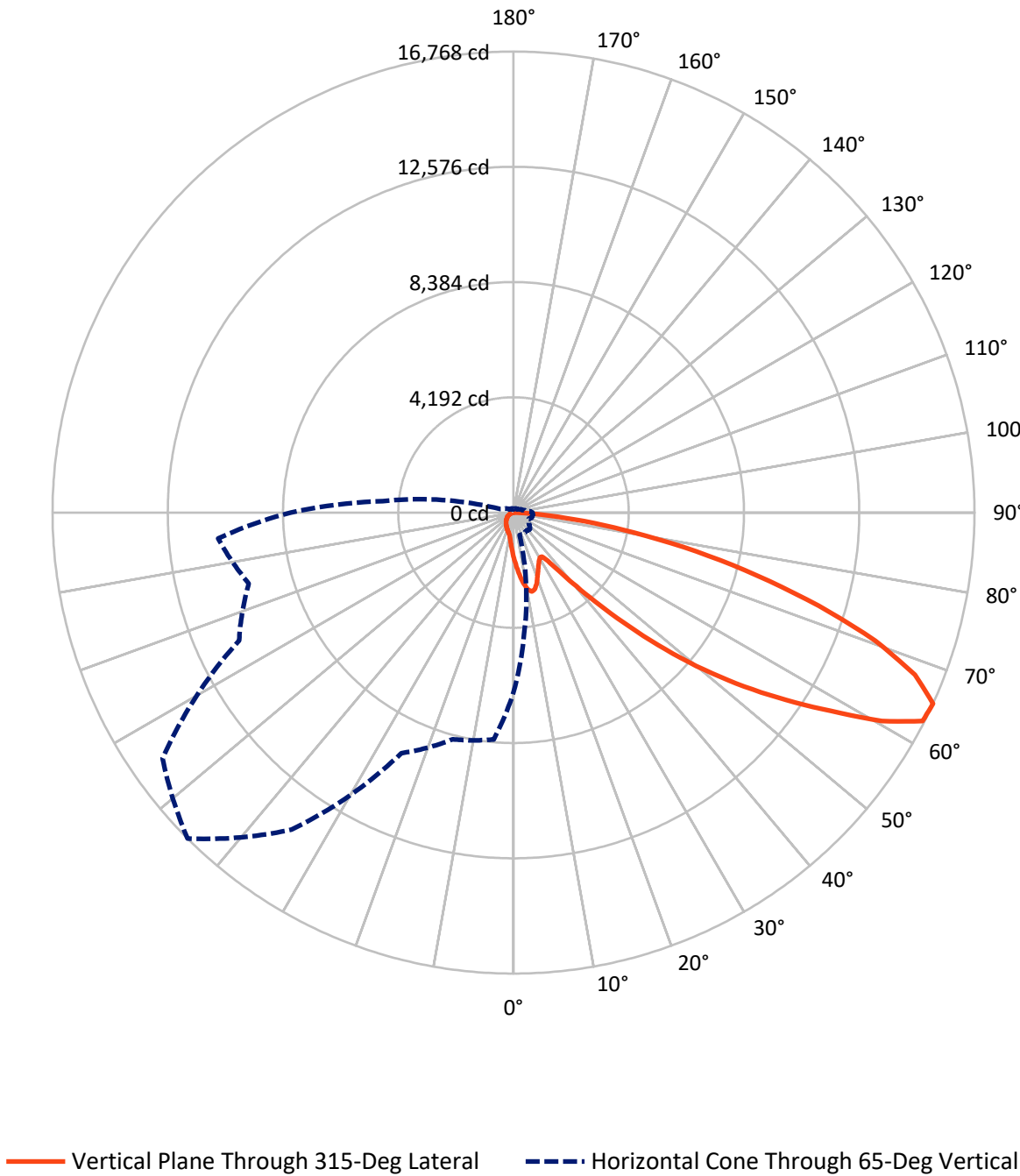


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Luminous Intensity Polar Plot



REPORT NUMBER: P949272

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1670.8   | 0.0    | 1670.8  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 10260.2  | 0.0    | 10260.2 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 11931.0  | 0.0    | 11931.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 162.7   | 1.4       |
| 10°-20°   | 487.6   | 4.1       |
| 20°-30°   | 718.3   | 6.0       |
| 30°-40°   | 922.8   | 7.7       |
| 40°-50°   | 1492.5  | 12.5      |
| 50°-60°   | 2617.2  | 21.9      |
| 60°-70°   | 3274.8  | 27.4      |
| 70°-80°   | 1913.7  | 16.0      |
| 80°-90°   | 341.4   | 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°    | 11931.0 | 100.0     |
| 0°-180°   | 11931.0 | 100.0     |

**Coefficient of Utilization**



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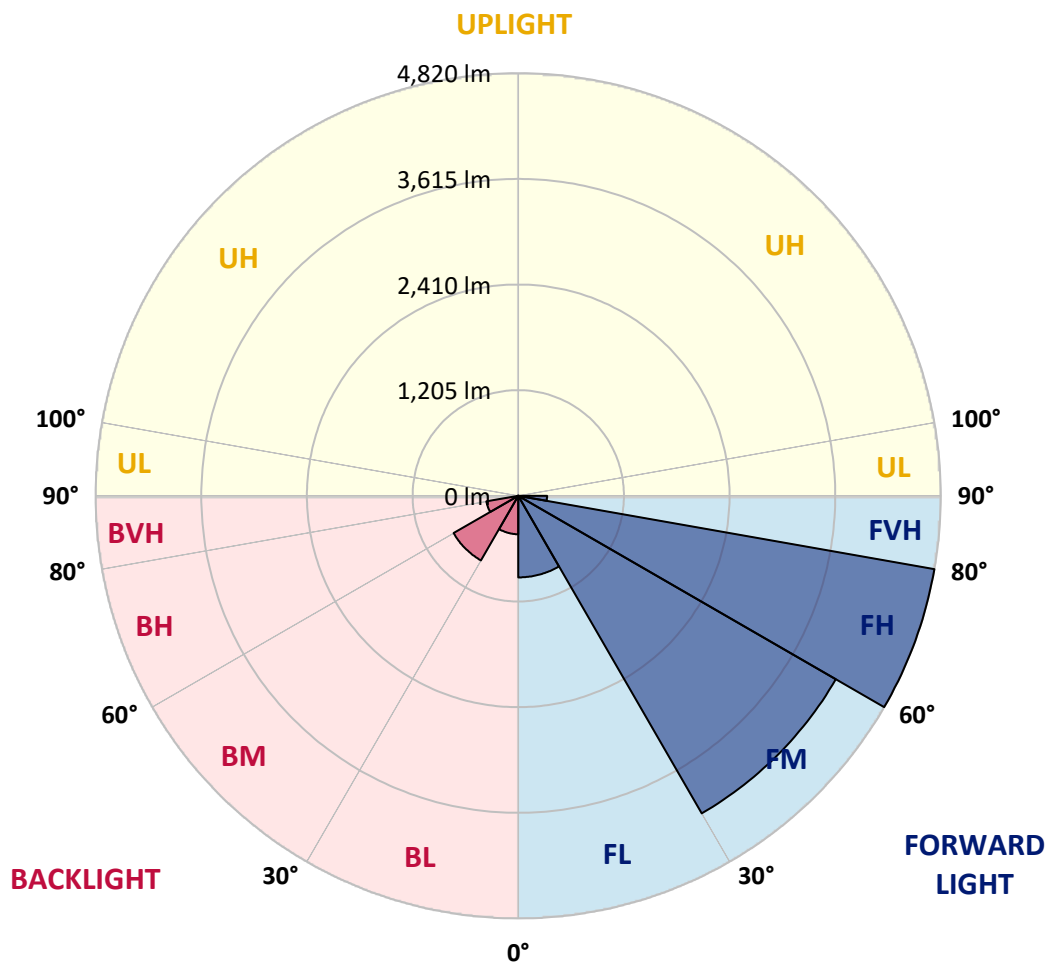
CATALOG NUMBER: GLAN-SB4A-827-U-SLR-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 930.6  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 4181.7 | 35.0      |                         |      |         |
| FH   | (60°-80°)   | 4819.6 | 40.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 328.3  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 438.0  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 850.8  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 368.9  | 3.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 13.1   | 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°    | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 |
| 2.5°  | 1866.6 | 1834.5 | 1815.6 | 1768.8 | 1721.9 | 1684.1 | 1633.2 | 1599.5 | 1559.2 | 1520.6 |
| 5°    | 2080.3 | 2028.5 | 1966.0 | 1880.6 | 1802.5 | 1722.7 | 1645.5 | 1569.0 | 1488.5 | 1414.5 |
| 7.5°  | 2261.1 | 2186.3 | 2076.2 | 1962.7 | 1863.3 | 1767.1 | 1676.7 | 1575.6 | 1477.8 | 1361.9 |
| 10°   | 2399.2 | 2303.8 | 2159.2 | 2010.4 | 1896.2 | 1799.2 | 1711.2 | 1625.8 | 1527.1 | 1387.4 |
| 12.5° | 2483.0 | 2381.1 | 2209.3 | 2035.1 | 1904.4 | 1795.9 | 1727.7 | 1689.9 | 1651.2 | 1512.3 |
| 15°   | 2544.7 | 2434.5 | 2244.7 | 2052.3 | 1885.5 | 1752.3 | 1702.2 | 1740.0 | 1784.4 | 1695.6 |
| 17.5° | 2608.8 | 2492.9 | 2290.7 | 2059.7 | 1834.5 | 1667.7 | 1646.3 | 1744.1 | 1846.9 | 1842.7 |
| 20°   | 2669.6 | 2554.5 | 2331.0 | 2054.8 | 1752.3 | 1564.9 | 1583.8 | 1708.8 | 1828.0 | 1878.1 |
| 22.5° | 2739.5 | 2617.8 | 2369.6 | 2035.9 | 1645.5 | 1468.8 | 1528.0 | 1652.9 | 1757.3 | 1816.4 |
| 25°   | 2824.9 | 2697.5 | 2423.8 | 2008.0 | 1530.4 | 1389.0 | 1471.2 | 1588.0 | 1672.6 | 1713.7 |
| 27.5° | 2917.0 | 2792.9 | 2496.2 | 1993.2 | 1437.5 | 1332.3 | 1407.1 | 1510.7 | 1586.3 | 1615.1 |
| 30°   | 3031.2 | 2903.8 | 2581.7 | 1976.7 | 1376.7 | 1299.5 | 1340.6 | 1421.1 | 1495.1 | 1523.8 |
| 32.5° | 3156.2 | 3027.1 | 2663.8 | 1937.3 | 1339.7 | 1274.8 | 1275.6 | 1326.6 | 1394.0 | 1428.5 |
| 35°   | 3312.3 | 3175.1 | 2751.8 | 1851.0 | 1310.1 | 1246.0 | 1212.3 | 1237.0 | 1292.9 | 1334.0 |
| 37.5° | 3535.1 | 3369.1 | 2859.5 | 1727.7 | 1266.6 | 1201.6 | 1145.8 | 1151.5 | 1194.3 | 1239.5 |
| 40°   | 3842.5 | 3629.6 | 2986.0 | 1599.5 | 1204.1 | 1139.2 | 1072.6 | 1070.1 | 1101.4 | 1145.8 |
| 42.5° | 4258.4 | 3974.0 | 3138.1 | 1477.0 | 1144.1 | 1063.6 | 995.3  | 991.2  | 1015.9 | 1054.5 |
| 45°   | 4807.4 | 4414.5 | 3324.7 | 1371.8 | 1097.3 | 989.6  | 922.2  | 920.6  | 941.1  | 974.8  |
| 47.5° | 5510.2 | 5026.9 | 3511.2 | 1300.3 | 1072.6 | 931.2  | 862.2  | 865.5  | 883.6  | 914.0  |
| 50°   | 6420.0 | 5825.0 | 3568.0 | 1264.1 | 1072.6 | 900.0  | 808.8  | 825.2  | 840.0  | 863.0  |
| 52.5° | 7510.7 | 6591.0 | 3380.6 | 1231.2 | 1079.2 | 904.1  | 763.6  | 798.9  | 809.6  | 829.3  |
| 55°   | 8521.7 | 6966.6 | 2906.3 | 1186.0 | 1080.8 | 929.6  | 724.9  | 777.5  | 797.3  | 804.7  |
| 57.5° | 9108.5 | 6837.6 | 2349.9 | 1109.6 | 1074.3 | 946.9  | 700.3  | 751.2  | 789.0  | 794.0  |
| 60°   | 8996.8 | 6384.7 | 1730.1 | 1051.2 | 1025.8 | 940.3  | 692.9  | 711.0  | 771.0  | 778.4  |
| 62.5° | 8135.4 | 5625.2 | 1200.8 | 1006.0 | 918.9  | 911.5  | 690.4  | 647.7  | 731.5  | 749.6  |
| 65°   | 6539.2 | 4428.5 | 848.2  | 866.3  | 805.5  | 849.0  | 677.3  | 581.9  | 683.8  | 708.5  |
| 67.5° | 4744.1 | 2996.7 | 612.3  | 701.9  | 729.9  | 747.9  | 647.7  | 534.2  | 629.6  | 662.5  |
| 70°   | 3044.4 | 1618.4 | 429.9  | 463.6  | 614.8  | 635.3  | 596.7  | 491.5  | 574.5  | 612.3  |
| 72.5° | 2164.1 | 955.9  | 309.0  | 324.7  | 494.0  | 529.3  | 525.2  | 443.8  | 510.4  | 556.4  |
| 75°   | 1493.4 | 526.9  | 208.8  | 231.8  | 358.4  | 429.9  | 405.2  | 381.4  | 432.3  | 479.2  |
| 77.5° | 936.2  | 235.9  | 124.9  | 161.1  | 235.1  | 337.8  | 277.8  | 295.1  | 337.0  | 380.5  |
| 80°   | 521.1  | 91.2   | 69.9   | 106.8  | 128.2  | 245.8  | 153.7  | 189.9  | 248.2  | 279.5  |
| 82.5° | 113.4  | 11.5   | 31.2   | 46.0   | 50.1   | 143.0  | 81.4   | 110.1  | 156.2  | 153.7  |
| 85°   | 0.0    | 0.0    | 5.8    | 6.6    | 3.3    | 61.6   | 29.6   | 36.2   | 51.0   | 47.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1652.1 | 0°    | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 |
| 1486.0 | 2.5°  | 1479.5 | 1439.2 | 1409.6 | 1394.8 | 1382.5 | 1394.0 | 1400.6 | 1400.6 | 1428.5 | 1444.9 |
| 1369.3 | 5°    | 1340.6 | 1268.2 | 1213.2 | 1176.2 | 1154.0 | 1161.4 | 1169.6 | 1178.6 | 1214.0 | 1237.8 |
| 1300.3 | 7.5°  | 1244.4 | 1133.4 | 1049.6 | 997.8  | 970.7  | 974.8  | 980.6  | 987.9  | 1022.5 | 1046.3 |
| 1310.1 | 10°   | 1226.3 | 1066.9 | 948.5  | 880.3  | 847.4  | 841.6  | 838.4  | 835.9  | 856.4  | 874.5  |
| 1421.9 | 12.5° | 1300.3 | 1070.1 | 904.9  | 821.9  | 781.6  | 764.4  | 744.7  | 729.0  | 732.3  | 743.8  |
| 1591.2 | 15°   | 1432.6 | 1112.1 | 891.0  | 791.5  | 741.4  | 712.6  | 689.6  | 670.7  | 666.6  | 670.7  |
| 1739.2 | 17.5° | 1583.8 | 1168.8 | 889.3  | 765.2  | 702.7  | 673.2  | 654.2  | 637.0  | 631.2  | 632.1  |
| 1822.2 | 20°   | 1684.1 | 1214.0 | 884.4  | 735.6  | 665.8  | 639.5  | 623.0  | 605.8  | 600.0  | 601.6  |
| 1799.2 | 22.5° | 1694.0 | 1237.8 | 877.0  | 702.7  | 628.8  | 606.6  | 590.1  | 574.5  | 573.7  | 573.7  |
| 1712.9 | 25°   | 1640.6 | 1237.8 | 861.4  | 673.2  | 593.4  | 573.7  | 558.9  | 540.0  | 543.3  | 544.9  |
| 1615.1 | 27.5° | 1557.5 | 1208.2 | 831.8  | 649.3  | 563.0  | 542.5  | 527.7  | 510.4  | 514.5  | 517.0  |
| 1523.8 | 30°   | 1475.3 | 1170.4 | 796.4  | 622.2  | 534.2  | 510.4  | 499.7  | 484.9  | 486.6  | 489.9  |
| 1433.4 | 32.5° | 1398.9 | 1130.1 | 754.5  | 600.0  | 505.5  | 481.6  | 473.4  | 457.0  | 459.5  | 462.7  |
| 1344.7 | 35°   | 1323.3 | 1085.8 | 705.2  | 573.7  | 479.2  | 455.3  | 448.8  | 429.9  | 431.5  | 436.4  |
| 1255.9 | 37.5° | 1241.9 | 1038.9 | 664.9  | 547.4  | 453.7  | 429.0  | 422.5  | 402.7  | 404.4  | 410.1  |
| 1163.8 | 40°   | 1156.4 | 992.9  | 625.5  | 519.5  | 426.6  | 401.9  | 396.2  | 374.8  | 376.4  | 383.0  |
| 1073.4 | 42.5° | 1070.1 | 942.7  | 595.1  | 483.3  | 398.6  | 372.3  | 366.6  | 346.9  | 349.3  | 356.7  |
| 994.5  | 45°   | 990.4  | 882.7  | 575.3  | 443.0  | 372.3  | 342.7  | 337.0  | 318.9  | 323.8  | 332.1  |
| 927.9  | 47.5° | 922.2  | 821.1  | 567.1  | 409.3  | 344.4  | 312.3  | 307.4  | 292.6  | 300.8  | 309.9  |
| 871.2  | 50°   | 863.8  | 761.9  | 556.4  | 374.8  | 318.1  | 286.0  | 281.1  | 271.2  | 281.9  | 291.0  |
| 832.6  | 52.5° | 821.9  | 694.5  | 533.4  | 343.6  | 295.1  | 263.8  | 262.2  | 257.3  | 267.1  | 275.3  |
| 803.8  | 55°   | 785.8  | 624.7  | 496.4  | 316.4  | 274.5  | 244.9  | 246.6  | 244.1  | 252.3  | 258.9  |
| 786.6  | 57.5° | 752.9  | 563.8  | 449.6  | 295.1  | 252.3  | 228.5  | 233.4  | 230.1  | 234.2  | 238.4  |
| 768.5  | 60°   | 713.4  | 502.2  | 393.7  | 271.2  | 226.0  | 212.1  | 217.8  | 208.8  | 207.9  | 209.6  |
| 735.6  | 62.5° | 655.1  | 419.2  | 335.3  | 241.6  | 203.0  | 194.0  | 196.4  | 179.2  | 166.0  | 166.0  |
| 687.1  | 65°   | 573.7  | 337.0  | 281.1  | 208.8  | 176.7  | 169.3  | 167.7  | 143.0  | 124.9  | 123.3  |
| 634.5  | 67.5° | 479.2  | 277.0  | 233.4  | 175.9  | 147.1  | 142.2  | 143.8  | 125.8  | 107.7  | 106.0  |
| 581.9  | 70°   | 390.4  | 229.3  | 188.2  | 140.5  | 113.4  | 118.4  | 125.8  | 107.7  | 90.4   | 87.9   |
| 520.3  | 72.5° | 317.3  | 182.5  | 147.1  | 107.7  | 83.8   | 97.8   | 106.8  | 87.9   | 71.5   | 69.9   |
| 443.8  | 75°   | 244.9  | 134.0  | 105.2  | 73.2   | 60.8   | 75.6   | 83.8   | 64.1   | 51.0   | 48.5   |
| 343.6  | 77.5° | 163.6  | 83.0   | 59.2   | 46.0   | 36.2   | 51.8   | 55.9   | 33.7   | 29.6   | 28.8   |
| 249.9  | 80°   | 99.5   | 38.6   | 25.5   | 22.2   | 12.3   | 18.9   | 22.2   | 14.0   | 15.6   | 16.4   |
| 133.2  | 82.5° | 50.1   | 10.7   | 4.1    | 0.8    | 0.0    | 0.0    | 6.6    | 3.3    | 6.6    | 8.2    |
| 36.2   | 85°   | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 4.1    |
| 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    |

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**CANDELA DISTRIBUTION (continued):**

| 185°   |       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1652.1 | 0°    | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1 | 1652.1  |
| 1451.5 | 2.5°  | 1497.5 | 1532.1 | 1564.9 | 1617.5 | 1671.8 | 1725.2 | 1779.5 | 1832.1 | 1851.0 | 1864.9  |
| 1253.4 | 5°    | 1324.9 | 1389.9 | 1465.5 | 1569.9 | 1681.7 | 1796.7 | 1913.4 | 2020.3 | 2068.8 | 2101.7  |
| 1066.9 | 7.5°  | 1146.6 | 1231.2 | 1339.7 | 1496.7 | 1671.8 | 1855.1 | 2038.4 | 2206.9 | 2284.9 | 2348.2  |
| 891.0  | 10°   | 969.9  | 1061.9 | 1199.2 | 1378.4 | 1615.1 | 1878.1 | 2131.2 | 2363.0 | 2464.1 | 2543.8  |
| 764.4  | 12.5° | 814.5  | 900.8  | 1044.7 | 1242.7 | 1526.3 | 1860.0 | 2184.7 | 2463.3 | 2582.5 | 2672.1  |
| 674.0  | 15°   | 705.2  | 766.0  | 893.4  | 1107.1 | 1421.1 | 1801.7 | 2188.0 | 2511.0 | 2641.7 | 2735.4  |
| 636.2  | 17.5° | 644.4  | 664.9  | 747.9  | 969.0  | 1304.4 | 1725.2 | 2157.5 | 2527.4 | 2667.1 | 2754.3  |
| 602.5  | 20°   | 611.5  | 614.8  | 637.8  | 789.9  | 1154.8 | 1653.7 | 2128.8 | 2543.8 | 2691.0 | 2764.1  |
| 578.6  | 22.5° | 585.2  | 585.2  | 591.0  | 646.0  | 961.6  | 1568.2 | 2119.7 | 2572.6 | 2723.8 | 2769.1  |
| 551.5  | 25°   | 561.4  | 561.4  | 563.0  | 577.8  | 761.9  | 1437.5 | 2114.0 | 2617.0 | 2769.1 | 2781.4  |
| 524.4  | 27.5° | 536.7  | 537.5  | 537.5  | 545.8  | 614.0  | 1260.0 | 2089.3 | 2674.5 | 2823.3 | 2797.8  |
| 498.1  | 30°   | 512.1  | 513.7  | 513.7  | 519.5  | 543.3  | 1052.1 | 2040.8 | 2743.6 | 2894.0 | 2819.2  |
| 471.8  | 32.5° | 487.4  | 489.0  | 489.0  | 494.0  | 511.2  | 840.0  | 1980.0 | 2806.9 | 2965.5 | 2828.2  |
| 446.3  | 35°   | 461.9  | 464.4  | 462.7  | 469.3  | 487.4  | 668.2  | 1902.7 | 2870.1 | 3042.8 | 2857.0  |
| 421.6  | 37.5° | 436.4  | 438.1  | 437.3  | 443.8  | 464.4  | 577.0  | 1813.2 | 2917.8 | 3148.0 | 2921.1  |
| 395.3  | 40°   | 411.0  | 410.1  | 410.1  | 417.5  | 439.7  | 550.7  | 1700.6 | 2993.4 | 3299.2 | 3033.7  |
| 369.0  | 42.5° | 384.7  | 384.7  | 383.0  | 391.2  | 418.4  | 531.0  | 1592.9 | 3129.1 | 3519.5 | 3212.9  |
| 344.4  | 45°   | 360.8  | 360.0  | 356.7  | 364.1  | 397.8  | 496.4  | 1555.1 | 3382.2 | 3844.9 | 3503.0  |
| 319.7  | 47.5° | 337.8  | 337.0  | 328.8  | 335.3  | 373.2  | 465.2  | 1696.4 | 3796.5 | 4296.2 | 3929.6  |
| 300.0  | 50°   | 317.3  | 318.1  | 302.5  | 308.2  | 348.5  | 441.4  | 2003.0 | 4334.0 | 4895.4 | 4504.1  |
| 283.6  | 52.5° | 298.4  | 298.4  | 277.8  | 281.1  | 318.1  | 420.0  | 2294.8 | 4916.7 | 5686.1 | 5305.5  |
| 266.3  | 55°   | 279.5  | 277.8  | 254.8  | 256.4  | 287.7  | 389.6  | 2338.4 | 5485.5 | 6764.4 | 6511.3  |
| 247.4  | 57.5° | 258.1  | 254.8  | 233.4  | 233.4  | 259.7  | 367.4  | 2026.9 | 5922.8 | 8102.5 | 8283.3  |
| 212.1  | 60°   | 231.8  | 229.3  | 215.3  | 211.2  | 237.5  | 387.1  | 1430.1 | 5973.7 | 8965.5 | 10639.8 |
| 168.5  | 62.5° | 198.1  | 201.4  | 194.0  | 188.2  | 216.2  | 401.9  | 847.4  | 5563.6 | 8756.7 | 11389.4 |
| 130.7  | 65°   | 156.2  | 169.3  | 167.7  | 163.6  | 237.5  | 338.6  | 500.6  | 4776.2 | 8116.5 | 10784.4 |
| 114.2  | 67.5° | 133.2  | 142.2  | 139.7  | 139.7  | 249.0  | 257.3  | 314.8  | 3731.5 | 7235.4 | 10066.9 |
| 95.3   | 70°   | 113.4  | 122.5  | 113.4  | 113.4  | 188.2  | 156.2  | 217.8  | 2605.5 | 6284.4 | 9272.9  |
| 76.4   | 72.5° | 93.7   | 102.7  | 92.9   | 86.3   | 150.4  | 116.7  | 159.5  | 1628.2 | 5381.9 | 8446.1  |
| 54.2   | 75°   | 71.5   | 82.2   | 74.8   | 66.6   | 99.5   | 87.1   | 120.8  | 946.0  | 4458.9 | 7226.3  |
| 32.9   | 77.5° | 45.2   | 59.2   | 55.9   | 46.8   | 73.2   | 63.3   | 87.1   | 563.0  | 3440.6 | 5646.6  |
| 19.7   | 80°   | 27.9   | 30.4   | 31.2   | 29.6   | 41.9   | 42.7   | 59.2   | 320.5  | 2354.8 | 3935.4  |
| 12.3   | 82.5° | 18.1   | 18.1   | 14.0   | 15.6   | 20.5   | 24.7   | 33.7   | 120.8  | 1384.1 | 2395.9  |
| 7.4    | 85°   | 13.2   | 11.5   | 7.4    | 7.4    | 9.9    | 12.3   | 13.2   | 37.0   | 561.4  | 946.0   |
| 3.3    | 87.5° | 6.6    | 5.8    | 2.5    | 3.3    | 4.9    | 4.1    | 3.3    | 1.6    | 141.4  | 302.5   |
| 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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| 285°    |       | 295°    | 305°    | 315°    | 325°    | 335°   | 345°    | 355°    | 360°   |
|---------|-------|---------|---------|---------|---------|--------|---------|---------|--------|
| 1652.1  | 0°    | 1652.1  | 1652.1  | 1652.1  | 1652.1  | 1652.1 | 1652.1  | 1652.1  | 1652.1 |
| 1896.2  | 2.5°  | 1912.6  | 1938.1  | 1939.7  | 1939.7  | 1917.5 | 1916.7  | 1871.5  | 1866.6 |
| 2175.6  | 5°    | 2252.1  | 2268.5  | 2272.6  | 2264.4  | 2220.0 | 2187.1  | 2099.2  | 2080.3 |
| 2460.8  | 7.5°  | 2562.8  | 2595.6  | 2595.6  | 2575.9  | 2503.6 | 2436.2  | 2308.8  | 2261.1 |
| 2696.7  | 10°   | 2811.0  | 2848.8  | 2840.6  | 2800.3  | 2709.1 | 2616.2  | 2461.7  | 2399.2 |
| 2839.7  | 12.5° | 2931.8  | 2970.4  | 2949.1  | 2903.0  | 2814.3 | 2716.4  | 2553.7  | 2483.0 |
| 2880.8  | 15°   | 2929.3  | 2918.6  | 2896.5  | 2890.7  | 2848.0 | 2774.0  | 2621.9  | 2544.7 |
| 2855.4  | 17.5° | 2824.9  | 2734.5  | 2717.3  | 2774.8  | 2829.1 | 2811.0  | 2681.1  | 2608.8 |
| 2794.5  | 20°   | 2659.7  | 2501.9  | 2486.3  | 2596.4  | 2751.0 | 2829.9  | 2736.2  | 2669.6 |
| 2706.6  | 22.5° | 2485.5  | 2315.4  | 2279.2  | 2400.8  | 2633.4 | 2835.6  | 2806.0  | 2739.5 |
| 2609.6  | 25°   | 2320.3  | 2149.3  | 2113.2  | 2226.6  | 2502.8 | 2825.8  | 2881.7  | 2824.9 |
| 2516.7  | 27.5° | 2182.2  | 2017.0  | 1983.3  | 2096.7  | 2377.0 | 2797.8  | 2957.3  | 2917.0 |
| 2424.7  | 30°   | 2075.4  | 1922.5  | 1897.8  | 2007.1  | 2268.5 | 2763.3  | 3053.4  | 3031.2 |
| 2339.2  | 32.5° | 2012.9  | 1901.1  | 1910.1  | 1999.7  | 2210.1 | 2725.5  | 3145.5  | 3156.2 |
| 2297.3  | 35°   | 2074.5  | 2079.5  | 2158.4  | 2195.4  | 2264.4 | 2719.7  | 3270.4  | 3312.3 |
| 2347.4  | 37.5° | 2381.1  | 2552.1  | 2715.6  | 2685.2  | 2529.9 | 2786.3  | 3457.0  | 3535.1 |
| 2566.0  | 40°   | 2903.0  | 3254.0  | 3519.5  | 3403.6  | 3012.3 | 2990.1  | 3725.8  | 3842.5 |
| 2954.0  | 42.5° | 3540.8  | 4135.9  | 4573.2  | 4262.5  | 3634.5 | 3346.9  | 4109.6  | 4258.4 |
| 3423.3  | 45°   | 4214.0  | 5223.3  | 5912.1  | 5266.0  | 4297.8 | 3846.6  | 4690.7  | 4807.4 |
| 3863.0  | 47.5° | 4923.3  | 6545.0  | 7435.9  | 6378.9  | 4912.6 | 4415.4  | 5483.0  | 5510.2 |
| 4279.7  | 50°   | 5699.2  | 7994.0  | 8989.4  | 7491.0  | 5506.1 | 5067.1  | 6451.3  | 6420.0 |
| 4765.5  | 52.5° | 6438.1  | 9484.1  | 10509.9 | 8608.0  | 6027.1 | 5875.9  | 7574.8  | 7510.7 |
| 5429.6  | 55°   | 7143.3  | 10973.5 | 12039.5 | 9681.4  | 6518.7 | 6944.4  | 8909.6  | 8521.7 |
| 6387.2  | 57.5° | 7961.1  | 12312.4 | 13615.9 | 10759.8 | 7205.8 | 8331.8  | 10402.2 | 9108.5 |
| 8220.9  | 60°   | 9170.2  | 13833.8 | 15398.7 | 12237.6 | 8512.6 | 9789.9  | 10937.3 | 8996.8 |
| 10417.0 | 62.5° | 10713.7 | 15232.7 | 16694.9 | 13685.8 | 9825.2 | 10064.4 | 10149.1 | 8135.4 |
| 9969.1  | 65°   | 11013.7 | 15586.9 | 16768.0 | 14072.9 | 9655.9 | 8537.3  | 8285.8  | 6539.2 |
| 8904.7  | 67.5° | 10218.1 | 14946.6 | 15745.5 | 13352.1 | 8541.4 | 6597.6  | 6217.8  | 4744.1 |
| 8206.1  | 70°   | 9325.5  | 13726.1 | 13963.6 | 12126.6 | 7512.4 | 4852.6  | 4199.2  | 3044.4 |
| 7727.7  | 72.5° | 8410.7  | 12097.9 | 11606.4 | 10531.3 | 6602.5 | 3533.4  | 3028.8  | 2164.1 |
| 7046.3  | 75°   | 7324.1  | 9956.8  | 9142.2  | 8750.2  | 5466.6 | 2773.2  | 2191.2  | 1493.4 |
| 6060.8  | 77.5° | 5865.2  | 7008.5  | 6790.7  | 6782.5  | 4108.0 | 2026.0  | 1462.2  | 936.2  |
| 4735.1  | 80°   | 4137.6  | 4548.5  | 4437.6  | 5108.2  | 2755.9 | 1469.6  | 880.3   | 521.1  |
| 3295.9  | 82.5° | 2003.0  | 2515.1  | 2581.7  | 3041.9  | 1340.6 | 864.7   | 203.0   | 113.4  |
| 1288.8  | 85°   | 784.1   | 1213.2  | 1023.3  | 1154.8  | 376.4  | 240.8   | 4.9     | 0.0    |
| 212.1   | 87.5° | 87.9    | 140.5   | 129.0   | 101.9   | 46.0   | 9.9     | 0.0     | 0.0    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0     | 0.0     | 0.0    |

(END OF REPORT)