

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: P948243

Luminaire Tested: **GLAN-SB3B-835-U-SLR-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948243  
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-SB3B-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 450mA 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: 11960 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

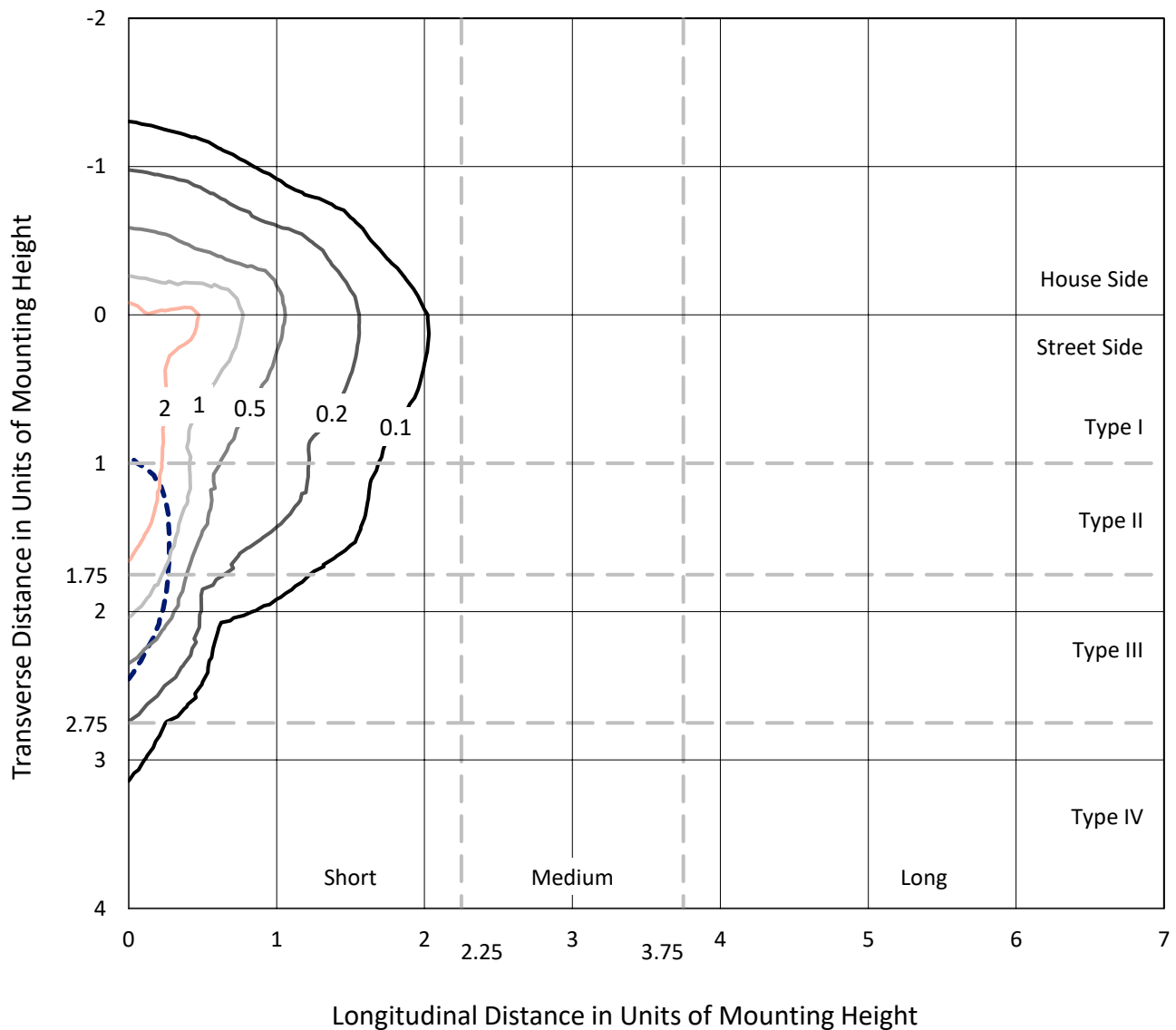
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

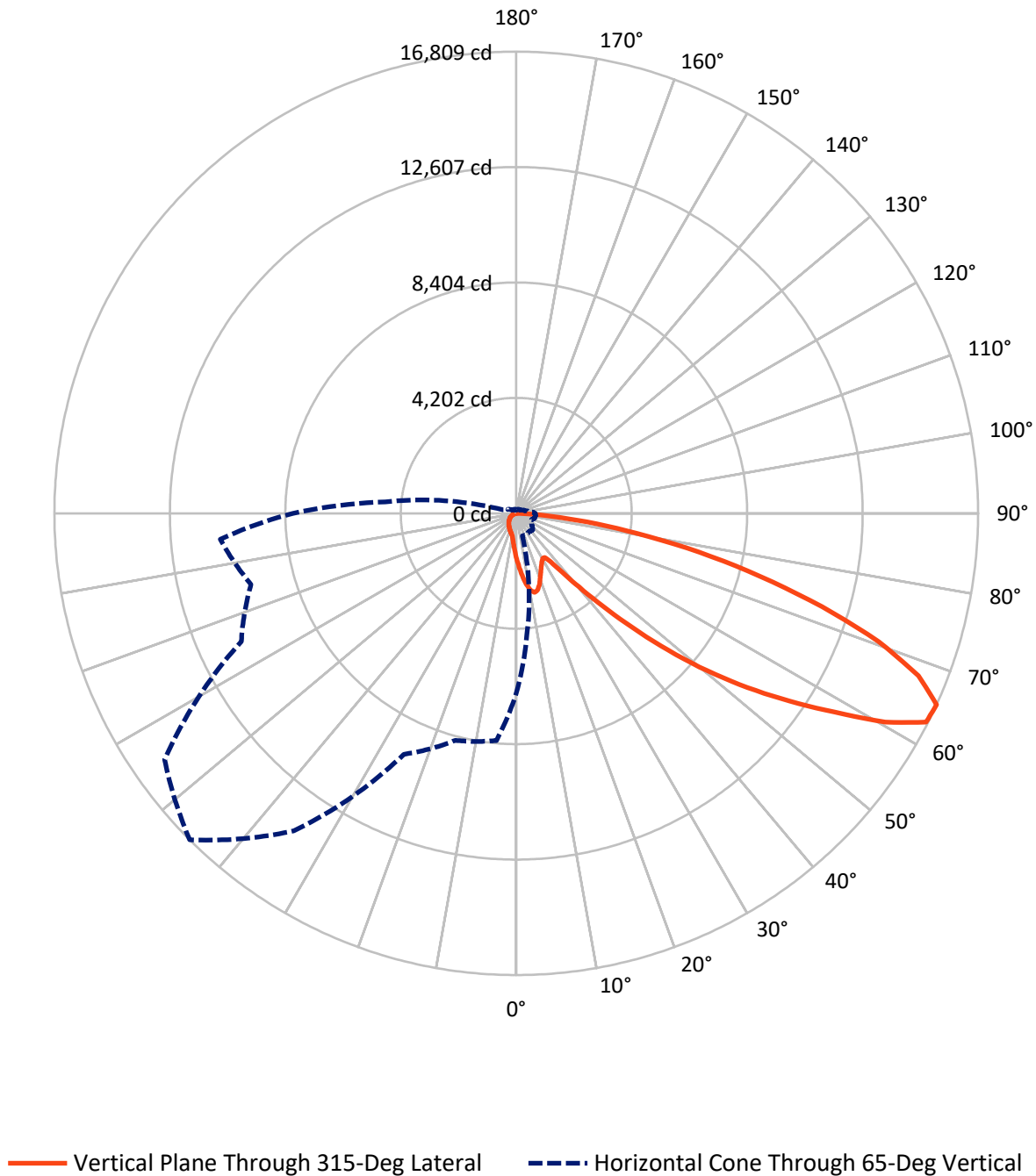
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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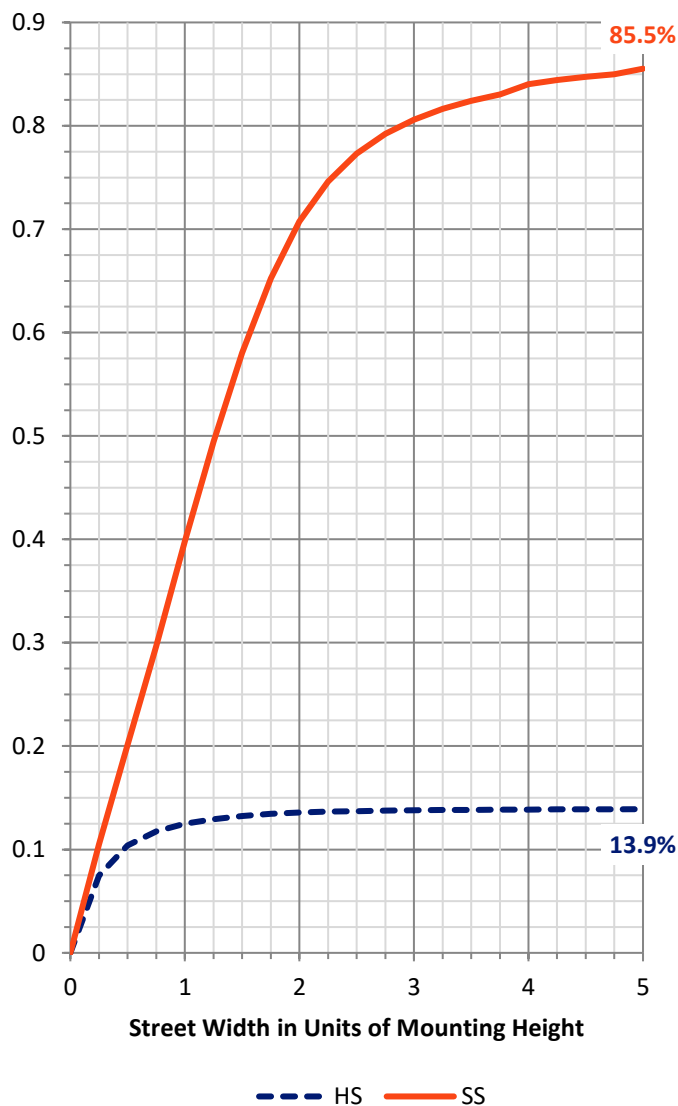
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1674.9   | 0.0    | 1674.9  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 10285.1  | 0.0    | 10285.1 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 11960.0  | 0.0    | 11960.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 163.0   | 1.4       |
| 10°-20°   | 488.8   | 4.1       |
| 20°-30°   | 720.0   | 6.0       |
| 30°-40°   | 925.1   | 7.7       |
| 40°-50°   | 1496.1  | 12.5      |
| 50°-60°   | 2623.6  | 21.9      |
| 60°-70°   | 3282.8  | 27.4      |
| 70°-80°   | 1918.3  | 16.0      |
| 80°-90°   | 342.3   | 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°    | 11960.0 | 100.0     |
| 0°-180°   | 11960.0 | 100.0     |

**Coefficient of Utilization**



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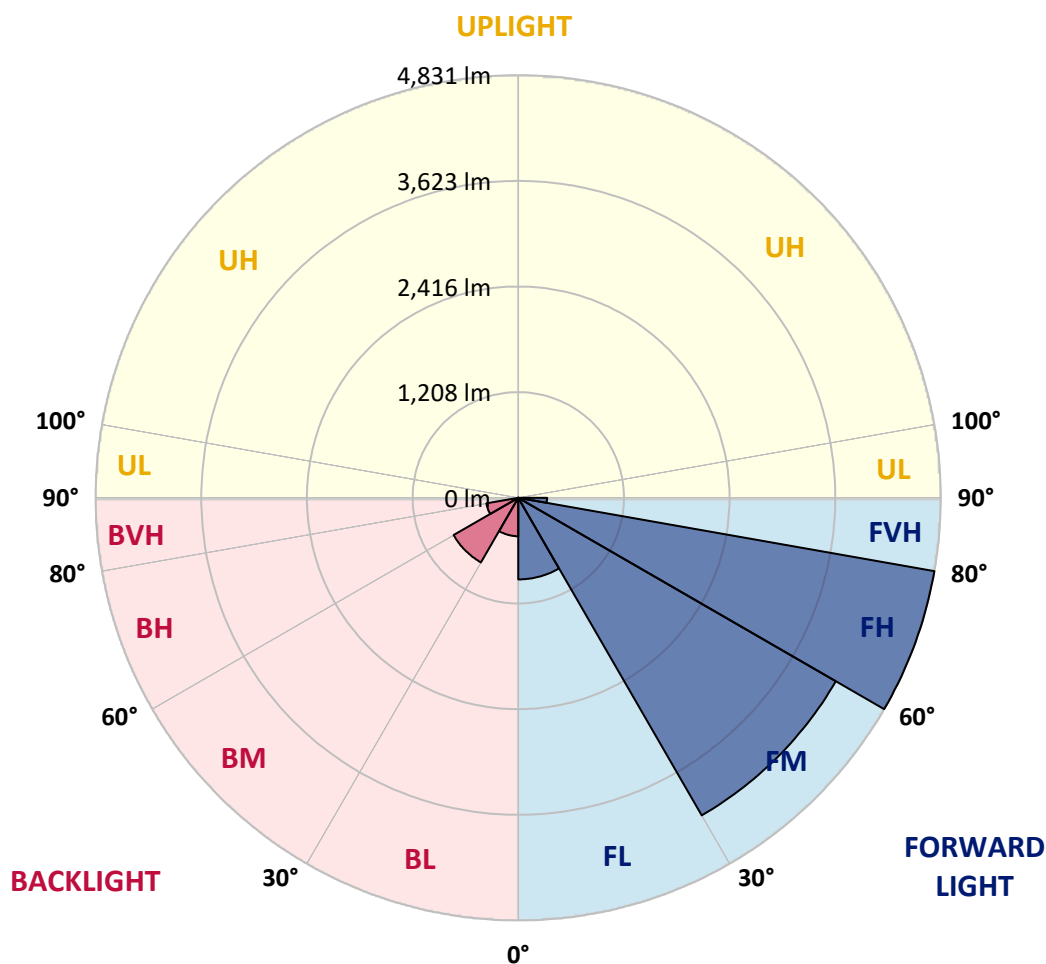
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 932.8  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 4191.8 | 35.0      |                         |      |         |
| FH   | (60°-80°)   | 4831.3 | 40.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 329.1  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 439.0  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 852.9  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 369.8  | 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°    | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 |
| 2.5°  | 1871.1 | 1839.0 | 1820.0 | 1773.1 | 1726.1 | 1688.2 | 1637.1 | 1603.3 | 1563.0 | 1524.3 |
| 5°    | 2085.3 | 2033.4 | 1970.8 | 1885.1 | 1806.9 | 1726.9 | 1649.5 | 1572.9 | 1492.1 | 1418.0 |
| 7.5°  | 2266.6 | 2191.6 | 2081.2 | 1967.5 | 1867.8 | 1771.4 | 1680.8 | 1579.5 | 1481.4 | 1365.2 |
| 10°   | 2405.0 | 2309.4 | 2164.4 | 2015.3 | 1900.8 | 1803.6 | 1715.4 | 1629.7 | 1530.8 | 1390.8 |
| 12.5° | 2489.1 | 2386.9 | 2214.7 | 2040.0 | 1909.0 | 1800.3 | 1731.9 | 1694.0 | 1655.3 | 1516.0 |
| 15°   | 2550.9 | 2440.4 | 2250.1 | 2057.3 | 1890.1 | 1756.6 | 1706.3 | 1744.2 | 1788.7 | 1699.7 |
| 17.5° | 2615.1 | 2498.9 | 2296.3 | 2064.7 | 1839.0 | 1671.7 | 1650.3 | 1748.4 | 1851.3 | 1847.2 |
| 20°   | 2676.1 | 2560.7 | 2336.6 | 2059.8 | 1756.6 | 1568.7 | 1587.7 | 1712.9 | 1832.4 | 1882.7 |
| 22.5° | 2746.1 | 2624.2 | 2375.4 | 2040.8 | 1649.5 | 1472.3 | 1531.7 | 1656.9 | 1761.5 | 1820.9 |
| 25°   | 2831.8 | 2704.1 | 2429.7 | 2012.8 | 1534.1 | 1392.4 | 1474.8 | 1591.8 | 1676.7 | 1717.9 |
| 27.5° | 2924.1 | 2799.7 | 2502.2 | 1998.0 | 1441.0 | 1335.6 | 1410.5 | 1514.4 | 1590.2 | 1619.0 |
| 30°   | 3038.6 | 2910.9 | 2587.9 | 1981.5 | 1380.1 | 1302.6 | 1343.8 | 1424.6 | 1498.7 | 1527.5 |
| 32.5° | 3163.8 | 3034.5 | 2670.3 | 1942.0 | 1343.0 | 1277.9 | 1278.7 | 1329.8 | 1397.4 | 1432.0 |
| 35°   | 3320.4 | 3182.8 | 2758.5 | 1855.5 | 1313.3 | 1249.1 | 1215.3 | 1240.0 | 1296.0 | 1337.2 |
| 37.5° | 3543.7 | 3377.2 | 2866.4 | 1731.9 | 1269.7 | 1204.6 | 1148.5 | 1154.3 | 1197.2 | 1242.5 |
| 40°   | 3851.8 | 3638.4 | 2993.3 | 1603.3 | 1207.0 | 1142.0 | 1075.2 | 1072.7 | 1104.1 | 1148.5 |
| 42.5° | 4268.7 | 3983.6 | 3145.7 | 1480.6 | 1146.9 | 1066.2 | 997.8  | 993.6  | 1018.4 | 1057.1 |
| 45°   | 4819.1 | 4425.3 | 3332.8 | 1375.1 | 1099.9 | 992.0  | 924.4  | 922.8  | 943.4  | 977.2  |
| 47.5° | 5523.6 | 5039.1 | 3519.8 | 1303.4 | 1075.2 | 933.5  | 864.3  | 867.6  | 885.7  | 916.2  |
| 50°   | 6435.6 | 5839.1 | 3576.6 | 1267.2 | 1075.2 | 902.2  | 810.7  | 827.2  | 842.0  | 865.1  |
| 52.5° | 7529.0 | 6607.0 | 3388.8 | 1234.2 | 1081.8 | 906.3  | 765.4  | 800.8  | 811.6  | 831.3  |
| 55°   | 8542.4 | 6983.5 | 2913.4 | 1188.9 | 1083.5 | 931.9  | 726.7  | 779.4  | 799.2  | 806.6  |
| 57.5° | 9130.7 | 6854.2 | 2355.6 | 1112.3 | 1076.9 | 949.2  | 702.0  | 753.1  | 791.0  | 795.9  |
| 60°   | 9018.6 | 6400.2 | 1734.3 | 1053.8 | 1028.3 | 942.6  | 694.6  | 712.7  | 772.8  | 780.3  |
| 62.5° | 8155.2 | 5638.9 | 1203.7 | 1008.5 | 921.1  | 913.7  | 692.1  | 649.2  | 733.3  | 751.4  |
| 65°   | 6555.1 | 4439.3 | 850.3  | 868.4  | 807.4  | 851.1  | 678.9  | 583.3  | 685.5  | 710.2  |
| 67.5° | 4755.7 | 3004.0 | 613.8  | 703.6  | 731.6  | 749.8  | 649.2  | 535.5  | 631.1  | 664.1  |
| 70°   | 3051.8 | 1622.3 | 430.9  | 464.7  | 616.3  | 636.9  | 598.2  | 492.7  | 575.9  | 613.8  |
| 72.5° | 2169.4 | 958.2  | 309.8  | 325.4  | 495.2  | 530.6  | 526.5  | 444.9  | 511.7  | 557.8  |
| 75°   | 1497.1 | 528.1  | 209.3  | 232.3  | 359.2  | 430.9  | 406.2  | 382.3  | 433.4  | 480.3  |
| 77.5° | 938.4  | 236.5  | 125.2  | 161.5  | 235.6  | 338.6  | 278.5  | 295.8  | 337.8  | 381.5  |
| 80°   | 522.4  | 91.5   | 70.0   | 107.1  | 128.5  | 246.4  | 154.1  | 190.3  | 248.8  | 280.1  |
| 82.5° | 113.7  | 11.5   | 31.3   | 46.1   | 50.3   | 143.4  | 81.6   | 110.4  | 156.5  | 154.1  |
| 85°   | 0.0    | 0.0    | 5.8    | 6.6    | 3.3    | 61.8   | 29.7   | 36.3   | 51.1   | 47.8   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1656.1 | 0°    | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 |
| 1489.6 | 2.5°  | 1483.1 | 1442.7 | 1413.0 | 1398.2 | 1385.8 | 1397.4 | 1404.0 | 1404.0 | 1432.0 | 1448.4 |
| 1372.6 | 5°    | 1343.8 | 1271.3 | 1216.1 | 1179.0 | 1156.8 | 1164.2 | 1172.4 | 1181.5 | 1216.9 | 1240.8 |
| 1303.4 | 7.5°  | 1247.4 | 1136.2 | 1052.1 | 1000.2 | 973.0  | 977.2  | 982.9  | 990.4  | 1025.0 | 1048.8 |
| 1313.3 | 10°   | 1229.3 | 1069.4 | 950.8  | 882.4  | 849.5  | 843.7  | 840.4  | 837.9  | 858.5  | 876.6  |
| 1425.4 | 12.5° | 1303.4 | 1072.7 | 907.1  | 823.9  | 783.5  | 766.2  | 746.5  | 730.8  | 734.1  | 745.6  |
| 1595.1 | 15°   | 1436.1 | 1114.8 | 893.1  | 793.4  | 743.2  | 714.3  | 691.3  | 672.3  | 668.2  | 672.3  |
| 1743.4 | 17.5° | 1587.7 | 1171.6 | 891.5  | 767.1  | 704.5  | 674.8  | 655.8  | 638.5  | 632.8  | 633.6  |
| 1826.6 | 20°   | 1688.2 | 1216.9 | 886.5  | 737.4  | 667.4  | 641.0  | 624.5  | 607.2  | 601.5  | 603.1  |
| 1803.6 | 22.5° | 1698.1 | 1240.8 | 879.1  | 704.5  | 630.3  | 608.1  | 591.6  | 575.9  | 575.1  | 575.1  |
| 1717.0 | 25°   | 1644.5 | 1240.8 | 863.5  | 674.8  | 594.9  | 575.1  | 560.3  | 541.3  | 544.6  | 546.3  |
| 1619.0 | 27.5° | 1561.3 | 1211.2 | 833.8  | 650.9  | 564.4  | 543.8  | 529.0  | 511.7  | 515.8  | 518.2  |
| 1527.5 | 30°   | 1478.9 | 1173.3 | 798.4  | 623.7  | 535.5  | 511.7  | 500.9  | 486.1  | 487.8  | 491.1  |
| 1436.9 | 32.5° | 1402.3 | 1132.9 | 756.4  | 601.5  | 506.7  | 482.8  | 474.6  | 458.1  | 460.6  | 463.9  |
| 1347.9 | 35°   | 1326.5 | 1088.4 | 706.9  | 575.1  | 480.3  | 456.5  | 449.9  | 430.9  | 432.6  | 437.5  |
| 1258.9 | 37.5° | 1244.9 | 1041.4 | 666.6  | 548.7  | 454.8  | 430.1  | 423.5  | 403.7  | 405.4  | 411.1  |
| 1166.7 | 40°   | 1159.3 | 995.3  | 627.0  | 520.7  | 427.6  | 402.9  | 397.1  | 375.7  | 377.4  | 383.9  |
| 1076.0 | 42.5° | 1072.7 | 945.0  | 596.5  | 484.5  | 399.6  | 373.2  | 367.5  | 347.7  | 350.2  | 357.6  |
| 996.9  | 45°   | 992.8  | 884.9  | 576.7  | 444.1  | 373.2  | 343.6  | 337.8  | 319.7  | 324.6  | 332.9  |
| 930.2  | 47.5° | 924.4  | 823.1  | 568.5  | 410.3  | 345.2  | 313.1  | 308.1  | 293.3  | 301.6  | 310.6  |
| 873.4  | 50°   | 865.9  | 763.8  | 557.8  | 375.7  | 318.9  | 286.7  | 281.8  | 271.9  | 282.6  | 291.7  |
| 834.6  | 52.5° | 823.9  | 696.2  | 534.7  | 344.4  | 295.8  | 264.5  | 262.8  | 257.9  | 267.8  | 276.0  |
| 805.8  | 55°   | 787.7  | 626.2  | 497.6  | 317.2  | 275.2  | 245.5  | 247.2  | 244.7  | 252.9  | 259.5  |
| 788.5  | 57.5° | 754.7  | 565.2  | 450.7  | 295.8  | 252.9  | 229.0  | 234.0  | 230.7  | 234.8  | 238.9  |
| 770.4  | 60°   | 715.2  | 503.4  | 394.7  | 271.9  | 226.6  | 212.6  | 218.3  | 209.3  | 208.5  | 210.1  |
| 737.4  | 62.5° | 656.7  | 420.2  | 336.2  | 242.2  | 203.5  | 194.4  | 196.9  | 179.6  | 166.4  | 166.4  |
| 688.8  | 65°   | 575.1  | 337.8  | 281.8  | 209.3  | 177.1  | 169.7  | 168.1  | 143.4  | 125.2  | 123.6  |
| 636.1  | 67.5° | 480.3  | 277.7  | 234.0  | 176.3  | 147.5  | 142.5  | 144.2  | 126.1  | 107.9  | 106.3  |
| 583.3  | 70°   | 391.4  | 229.9  | 188.7  | 140.9  | 113.7  | 118.6  | 126.1  | 107.9  | 90.6   | 88.2   |
| 521.5  | 72.5° | 318.0  | 182.9  | 147.5  | 107.9  | 84.0   | 98.0   | 107.1  | 88.2   | 71.7   | 70.0   |
| 444.9  | 75°   | 245.5  | 134.3  | 105.5  | 73.3   | 61.0   | 75.8   | 84.0   | 64.3   | 51.1   | 48.6   |
| 344.4  | 77.5° | 164.0  | 83.2   | 59.3   | 46.1   | 36.3   | 51.9   | 56.0   | 33.8   | 29.7   | 28.8   |
| 250.5  | 80°   | 99.7   | 38.7   | 25.5   | 22.2   | 12.4   | 19.0   | 22.2   | 14.0   | 15.7   | 16.5   |
| 133.5  | 82.5° | 50.3   | 10.7   | 4.1    | 0.8    | 0.0    | 0.0    | 6.6    | 3.3    | 6.6    | 8.2    |
| 36.3   | 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°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1656.1 | 0°    | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1 | 1656.1  |
| 1455.0 | 2.5°  | 1501.2 | 1535.8 | 1568.7 | 1621.5 | 1675.9 | 1729.4 | 1783.8 | 1836.5 | 1855.5 | 1869.5  |
| 1256.5 | 5°    | 1328.2 | 1393.2 | 1469.0 | 1573.7 | 1685.7 | 1801.1 | 1918.1 | 2025.2 | 2073.8 | 2106.8  |
| 1069.4 | 7.5°  | 1149.4 | 1234.2 | 1343.0 | 1500.4 | 1675.9 | 1859.6 | 2043.3 | 2212.2 | 2290.5 | 2353.9  |
| 893.1  | 10°   | 972.2  | 1064.5 | 1202.1 | 1381.7 | 1619.0 | 1882.7 | 2136.4 | 2368.8 | 2470.1 | 2550.0  |
| 766.2  | 12.5° | 816.5  | 903.0  | 1047.2 | 1245.8 | 1530.0 | 1864.5 | 2190.0 | 2469.3 | 2588.8 | 2678.6  |
| 675.6  | 15°   | 706.9  | 767.9  | 895.6  | 1109.8 | 1424.6 | 1806.0 | 2193.3 | 2517.1 | 2648.1 | 2742.0  |
| 637.7  | 17.5° | 646.0  | 666.6  | 749.8  | 971.4  | 1307.6 | 1729.4 | 2162.8 | 2533.6 | 2673.6 | 2761.0  |
| 603.9  | 20°   | 613.0  | 616.3  | 639.4  | 791.8  | 1157.6 | 1657.7 | 2134.0 | 2550.0 | 2697.5 | 2770.8  |
| 580.0  | 22.5° | 586.6  | 586.6  | 592.4  | 647.6  | 964.0  | 1572.0 | 2124.9 | 2578.9 | 2730.5 | 2775.8  |
| 552.8  | 25°   | 562.7  | 562.7  | 564.4  | 579.2  | 763.8  | 1441.0 | 2119.1 | 2623.4 | 2775.8 | 2788.1  |
| 525.7  | 27.5° | 538.0  | 538.8  | 538.8  | 547.1  | 615.5  | 1263.1 | 2094.4 | 2681.0 | 2830.2 | 2804.6  |
| 499.3  | 30°   | 513.3  | 514.9  | 514.9  | 520.7  | 544.6  | 1054.6 | 2045.8 | 2750.2 | 2901.0 | 2826.0  |
| 472.9  | 32.5° | 488.6  | 490.2  | 490.2  | 495.2  | 512.5  | 842.0  | 1984.8 | 2813.7 | 2972.7 | 2835.1  |
| 447.4  | 35°   | 463.0  | 465.5  | 463.9  | 470.5  | 488.6  | 669.8  | 1907.4 | 2877.1 | 3050.1 | 2863.9  |
| 422.7  | 37.5° | 437.5  | 439.1  | 438.3  | 444.9  | 465.5  | 578.4  | 1817.6 | 2924.9 | 3155.6 | 2928.2  |
| 396.3  | 40°   | 412.0  | 411.1  | 411.1  | 418.6  | 440.8  | 552.0  | 1704.7 | 3000.7 | 3307.2 | 3041.1  |
| 369.9  | 42.5° | 385.6  | 385.6  | 383.9  | 392.2  | 419.4  | 532.3  | 1596.8 | 3136.7 | 3528.0 | 3220.7  |
| 345.2  | 45°   | 361.7  | 360.9  | 357.6  | 365.0  | 398.8  | 497.6  | 1558.9 | 3390.4 | 3854.3 | 3511.5  |
| 320.5  | 47.5° | 338.6  | 337.8  | 329.6  | 336.2  | 374.1  | 466.3  | 1700.6 | 3805.7 | 4306.6 | 3939.2  |
| 300.7  | 50°   | 318.0  | 318.9  | 303.2  | 309.0  | 349.3  | 442.4  | 2007.9 | 4344.5 | 4907.3 | 4515.1  |
| 284.3  | 52.5° | 299.1  | 299.1  | 278.5  | 281.8  | 318.9  | 421.0  | 2300.4 | 4928.7 | 5699.9 | 5318.4  |
| 266.9  | 55°   | 280.1  | 278.5  | 255.4  | 257.1  | 288.4  | 390.5  | 2344.0 | 5498.8 | 6780.9 | 6527.1  |
| 248.0  | 57.5° | 258.7  | 255.4  | 234.0  | 234.0  | 260.4  | 368.3  | 2031.8 | 5937.2 | 8122.2 | 8303.5  |
| 212.6  | 60°   | 232.3  | 229.9  | 215.9  | 211.7  | 238.1  | 388.1  | 1433.6 | 5988.2 | 8987.3 | 10665.6 |
| 168.9  | 62.5° | 198.6  | 201.9  | 194.4  | 188.7  | 216.7  | 402.9  | 849.5  | 5577.1 | 8778.0 | 11417.0 |
| 131.0  | 65°   | 156.5  | 169.7  | 168.1  | 164.0  | 238.1  | 339.5  | 501.8  | 4787.8 | 8136.2 | 10810.6 |
| 114.5  | 67.5° | 133.5  | 142.5  | 140.1  | 140.1  | 249.6  | 257.9  | 315.6  | 3740.6 | 7253.0 | 10091.4 |
| 95.6   | 70°   | 113.7  | 122.8  | 113.7  | 113.7  | 188.7  | 156.5  | 218.3  | 2611.8 | 6299.7 | 9295.5  |
| 76.6   | 72.5° | 93.9   | 103.0  | 93.1   | 86.5   | 150.8  | 117.0  | 159.8  | 1632.2 | 5395.0 | 8466.6  |
| 54.4   | 75°   | 71.7   | 82.4   | 75.0   | 66.7   | 99.7   | 87.3   | 121.1  | 948.3  | 4469.8 | 7243.9  |
| 33.0   | 77.5° | 45.3   | 59.3   | 56.0   | 47.0   | 73.3   | 63.4   | 87.3   | 564.4  | 3448.9 | 5660.3  |
| 19.8   | 80°   | 28.0   | 30.5   | 31.3   | 29.7   | 42.0   | 42.8   | 59.3   | 321.3  | 2360.5 | 3944.9  |
| 12.4   | 82.5° | 18.1   | 18.1   | 14.0   | 15.7   | 20.6   | 24.7   | 33.8   | 121.1  | 1387.5 | 2401.7  |
| 7.4    | 85°   | 13.2   | 11.5   | 7.4    | 7.4    | 9.9    | 12.4   | 13.2   | 37.1   | 562.7  | 948.3   |
| 3.3    | 87.5° | 6.6    | 5.8    | 2.5    | 3.3    | 4.9    | 4.1    | 3.3    | 1.6    | 141.7  | 303.2   |
| 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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|---------|-------|---------|---------|---------|---------|--------|---------|---------|--------|
| 1656.1  | 0°    | 1656.1  | 1656.1  | 1656.1  | 1656.1  | 1656.1 | 1656.1  | 1656.1  | 1656.1 |
| 1900.8  | 2.5°  | 1917.3  | 1942.8  | 1944.4  | 1944.4  | 1922.2 | 1921.4  | 1876.1  | 1871.1 |
| 2180.9  | 5°    | 2257.5  | 2274.0  | 2278.1  | 2269.9  | 2225.4 | 2192.4  | 2104.3  | 2085.3 |
| 2466.8  | 7.5°  | 2569.0  | 2601.9  | 2601.9  | 2582.2  | 2509.7 | 2442.1  | 2314.4  | 2266.6 |
| 2703.3  | 10°   | 2817.8  | 2855.7  | 2847.5  | 2807.1  | 2715.6 | 2622.5  | 2467.6  | 2405.0 |
| 2846.6  | 12.5° | 2938.9  | 2977.6  | 2956.2  | 2910.1  | 2821.1 | 2723.1  | 2559.9  | 2489.1 |
| 2887.8  | 15°   | 2936.4  | 2925.7  | 2903.5  | 2897.7  | 2854.9 | 2780.7  | 2628.3  | 2550.9 |
| 2862.3  | 17.5° | 2831.8  | 2741.2  | 2723.9  | 2781.6  | 2835.9 | 2817.8  | 2687.6  | 2615.1 |
| 2801.3  | 20°   | 2666.2  | 2508.0  | 2492.4  | 2602.8  | 2757.7 | 2836.8  | 2742.8  | 2676.1 |
| 2713.2  | 22.5° | 2491.5  | 2321.0  | 2284.7  | 2406.7  | 2639.8 | 2842.5  | 2812.9  | 2746.1 |
| 2615.9  | 25°   | 2325.9  | 2154.5  | 2118.3  | 2232.0  | 2508.8 | 2832.6  | 2888.7  | 2831.8 |
| 2522.8  | 27.5° | 2187.5  | 2021.9  | 1988.1  | 2101.8  | 2382.8 | 2804.6  | 2964.5  | 2924.1 |
| 2430.6  | 30°   | 2080.4  | 1927.1  | 1902.4  | 2012.0  | 2274.0 | 2770.0  | 3060.9  | 3038.6 |
| 2344.9  | 32.5° | 2017.8  | 1905.7  | 1914.8  | 2004.6  | 2215.5 | 2732.1  | 3153.1  | 3163.8 |
| 2302.9  | 35°   | 2079.6  | 2084.5  | 2163.6  | 2200.7  | 2269.9 | 2726.3  | 3278.4  | 3320.4 |
| 2353.1  | 37.5° | 2386.9  | 2558.3  | 2722.2  | 2691.7  | 2536.0 | 2793.1  | 3465.4  | 3543.7 |
| 2572.3  | 40°   | 2910.1  | 3261.9  | 3528.0  | 3411.8  | 3019.7 | 2997.4  | 3734.8  | 3851.8 |
| 2961.2  | 42.5° | 3549.4  | 4146.0  | 4584.3  | 4272.8  | 3643.4 | 3355.0  | 4119.6  | 4268.7 |
| 3431.6  | 45°   | 4224.2  | 5236.0  | 5926.4  | 5278.8  | 4308.3 | 3855.9  | 4702.1  | 4819.1 |
| 3872.4  | 47.5° | 4935.3  | 6560.9  | 7454.0  | 6394.4  | 4924.6 | 4426.1  | 5496.4  | 5523.6 |
| 4290.1  | 50°   | 5713.1  | 8013.4  | 9011.2  | 7509.2  | 5519.4 | 5079.5  | 6466.9  | 6435.6 |
| 4777.1  | 52.5° | 6453.8  | 9507.2  | 10535.5 | 8628.9  | 6041.8 | 5890.2  | 7593.2  | 7529.0 |
| 5442.8  | 55°   | 7160.7  | 11000.1 | 12068.8 | 9704.9  | 6534.5 | 6961.3  | 8931.3  | 8542.4 |
| 6402.7  | 57.5° | 7980.5  | 12342.3 | 13649.0 | 10785.9 | 7223.3 | 8352.1  | 10427.5 | 9130.7 |
| 8240.8  | 60°   | 9192.5  | 13867.4 | 15436.1 | 12267.3 | 8533.3 | 9813.7  | 10963.9 | 9018.6 |
| 10442.4 | 62.5° | 10739.8 | 15269.7 | 16735.4 | 13719.1 | 9849.1 | 10088.9 | 10173.8 | 8155.2 |
| 9993.3  | 65°   | 11040.5 | 15624.8 | 16808.8 | 14107.1 | 9679.4 | 8558.0  | 8305.9  | 6555.1 |
| 8926.3  | 67.5° | 10243.0 | 14983.0 | 15783.8 | 13384.6 | 8562.2 | 6613.6  | 6232.9  | 4755.7 |
| 8226.0  | 70°   | 9348.2  | 13759.4 | 13997.6 | 12156.1 | 7530.6 | 4864.4  | 4209.4  | 3051.8 |
| 7746.5  | 72.5° | 8431.2  | 12127.3 | 11634.6 | 10556.9 | 6618.5 | 3542.0  | 3036.1  | 2169.4 |
| 7063.5  | 75°   | 7341.9  | 9981.0  | 9164.5  | 8771.4  | 5479.9 | 2779.9  | 2196.6  | 1497.1 |
| 6075.6  | 77.5° | 5879.5  | 7025.6  | 6807.2  | 6799.0  | 4117.9 | 2031.0  | 1465.8  | 938.4  |
| 4746.6  | 80°   | 4147.6  | 4559.6  | 4448.3  | 5120.7  | 2762.6 | 1473.2  | 882.4   | 522.4  |
| 3303.9  | 82.5° | 2007.9  | 2521.2  | 2587.9  | 3049.3  | 1343.8 | 866.8   | 203.5   | 113.7  |
| 1291.9  | 85°   | 786.0   | 1216.1  | 1025.8  | 1157.6  | 377.4  | 241.4   | 4.9     | 0.0    |
| 212.6   | 87.5° | 88.2    | 140.9   | 129.4   | 102.2   | 46.1   | 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)