

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: P947364

Luminaire Tested: **GLAN-SB2D-727-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2D-727-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19226 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
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



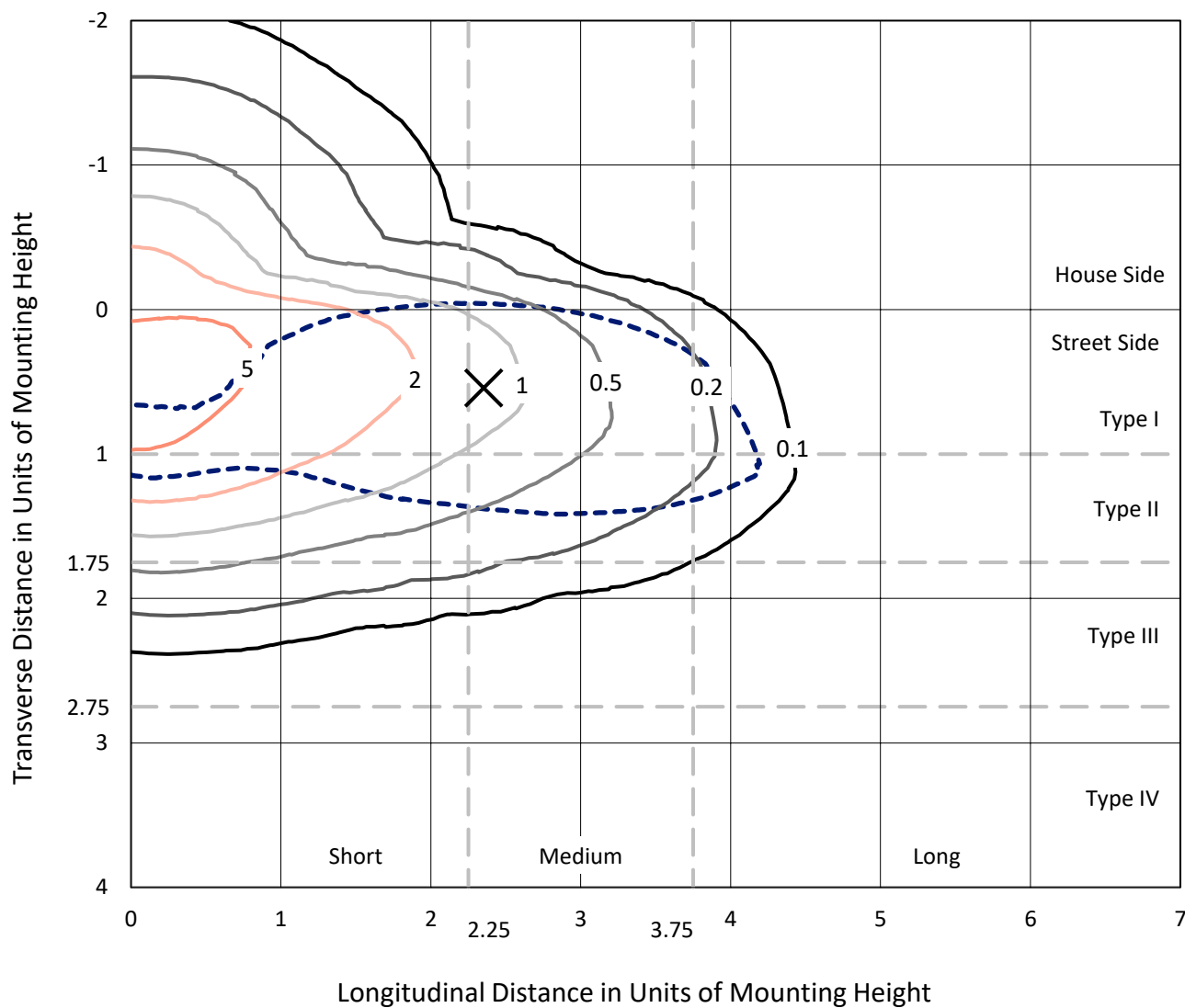
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

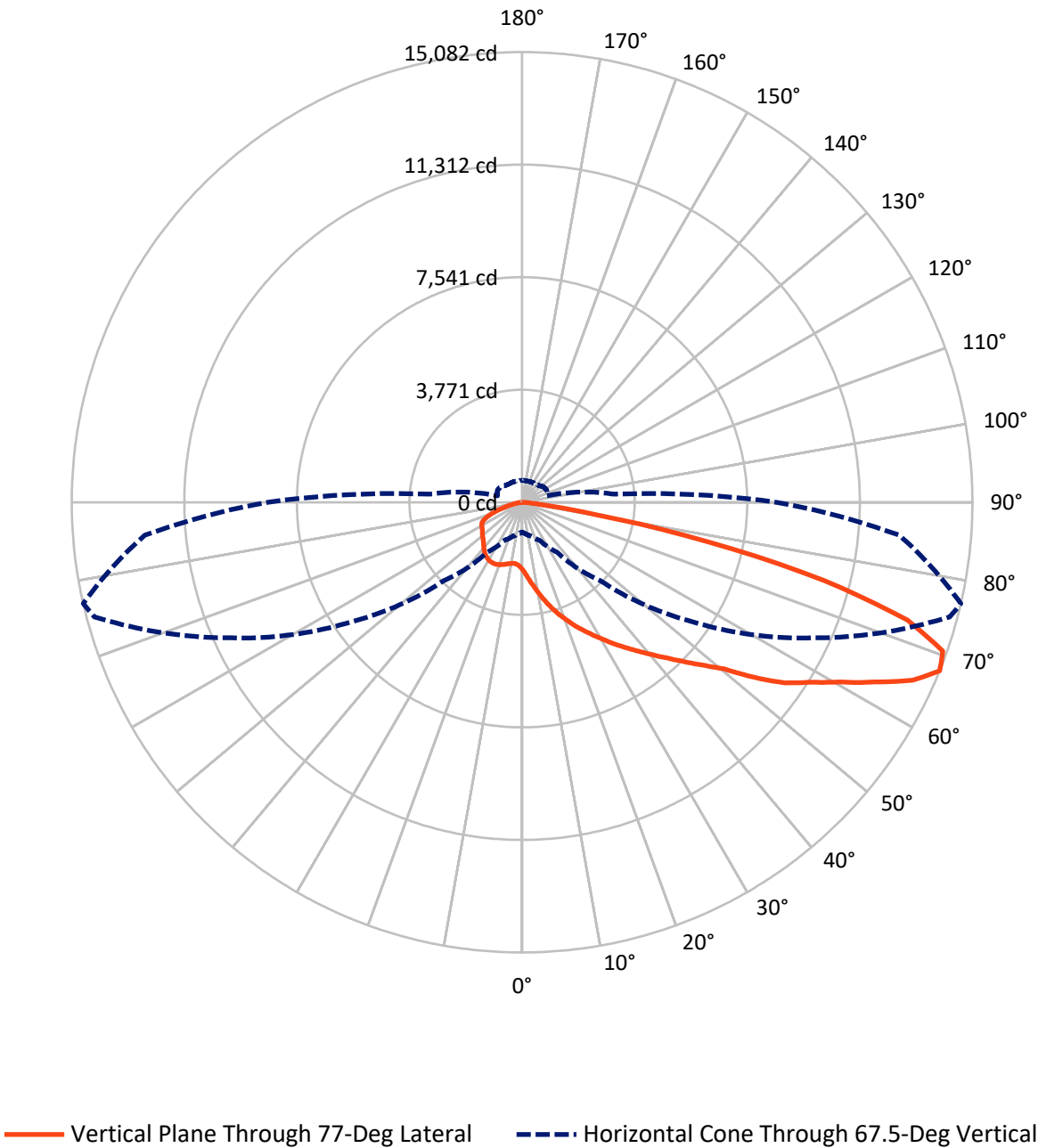
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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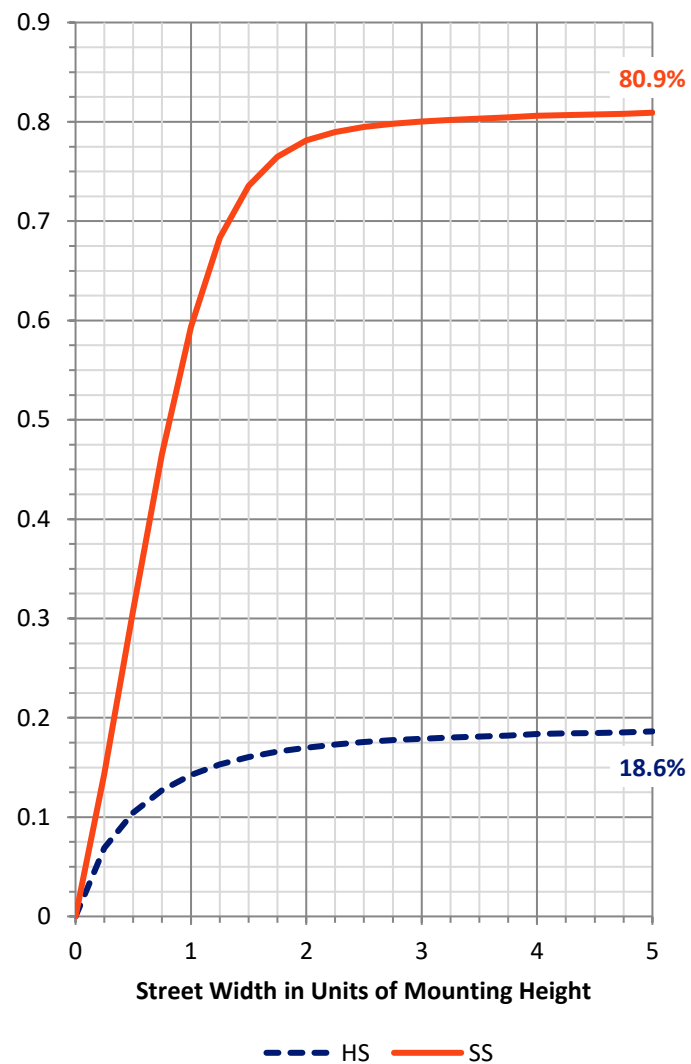
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3636.8   | 0.0    | 3636.8  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 15589.2  | 0.0    | 15589.2 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 19226.0  | 0.0    | 19226.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 241.8   | 1.3       |
| 10°-20°   | 868.7   | 4.5       |
| 20°-30°   | 1640.1  | 8.5       |
| 30°-40°   | 2642.2  | 13.7      |
| 40°-50°   | 3614.1  | 18.8      |
| 50°-60°   | 4076.7  | 21.2      |
| 60°-70°   | 3805.1  | 19.8      |
| 70°-80°   | 2085.8  | 10.8      |
| 80°-90°   | 251.6   | 1.3       |
| 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°    | 19226.0 | 100.0     |
| 0°-180°   | 19226.0 | 100.0     |

**Coefficient of Utilization**



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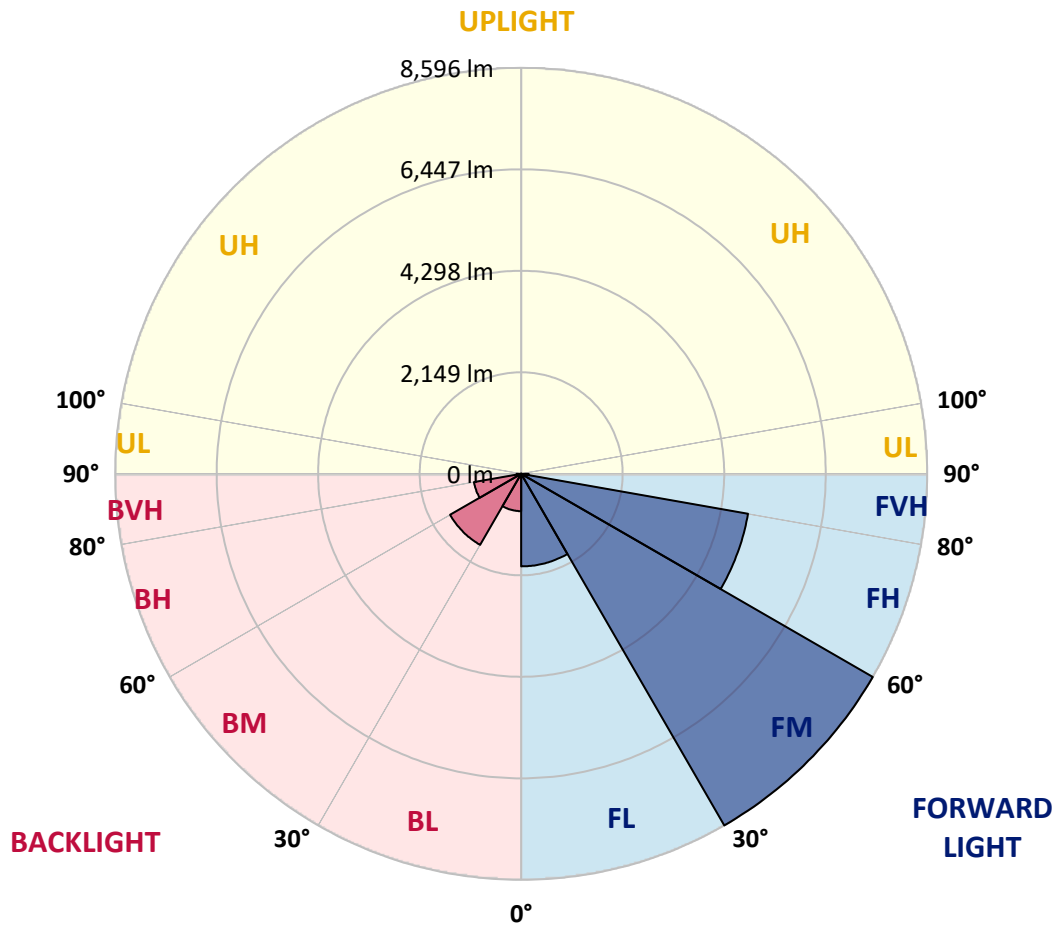
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1959.9 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 8595.7 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 4876.3 | 25.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 157.3  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 790.7  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1737.2 | 9.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1014.6 | 5.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 94.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8  | 2255.8  | 2255.8  |
| 2.5°  | 2824.5 | 2844.3 | 2819.5 | 2819.5 | 2736.1 | 2692.5 | 2609.1 | 2545.6  | 2431.5  | 2411.6  |
| 5°    | 3338.6 | 3363.4 | 3328.6 | 3313.7 | 3215.5 | 3125.2 | 2985.2 | 2847.3  | 2643.8  | 2623.0  |
| 7.5°  | 3736.5 | 3768.3 | 3737.5 | 3721.6 | 3634.3 | 3533.1 | 3369.3 | 3176.8  | 2890.0  | 2849.3  |
| 10°   | 4061.0 | 4066.0 | 4056.1 | 4062.0 | 3993.6 | 3910.2 | 3742.5 | 3518.2  | 3159.9  | 3104.3  |
| 12.5° | 4244.6 | 4267.5 | 4287.3 | 4323.1 | 4311.1 | 4259.5 | 4108.7 | 3840.7  | 3445.7  | 3374.3  |
| 15°   | 4331.0 | 4370.7 | 4415.3 | 4497.7 | 4564.2 | 4577.1 | 4462.0 | 4187.1  | 3736.5  | 3650.2  |
| 17.5° | 4361.8 | 4399.5 | 4469.9 | 4589.0 | 4731.9 | 4828.2 | 4776.6 | 4523.5  | 4024.3  | 3925.1  |
| 20°   | 4517.6 | 4528.5 | 4571.2 | 4684.3 | 4839.1 | 4998.9 | 5037.6 | 4847.1  | 4309.2  | 4197.0  |
| 22.5° | 4851.0 | 4829.2 | 4841.1 | 4892.7 | 5003.9 | 5158.7 | 5247.0 | 5132.9  | 4601.9  | 4472.9  |
| 25°   | 5401.8 | 5338.3 | 5274.8 | 5215.3 | 5271.8 | 5359.2 | 5459.4 | 5418.7  | 4908.6  | 4744.8  |
| 27.5° | 6097.5 | 6020.1 | 5880.2 | 5684.7 | 5616.2 | 5647.0 | 5691.6 | 5683.7  | 5192.4  | 5026.7  |
| 30°   | 6782.3 | 6692.0 | 6525.3 | 6242.4 | 6061.8 | 5980.4 | 5946.7 | 5923.9  | 5501.1  | 5324.4  |
| 32.5° | 7329.1 | 7257.7 | 7093.9 | 6777.3 | 6515.3 | 6376.4 | 6264.3 | 6182.9  | 5823.6  | 5647.0  |
| 35°   | 7807.5 | 7741.0 | 7553.4 | 7208.1 | 6923.2 | 6775.4 | 6628.5 | 6454.8  | 6159.1  | 5980.4  |
| 37.5° | 8244.2 | 8177.7 | 7920.6 | 7561.4 | 7274.6 | 7172.3 | 7041.3 | 6746.6  | 6495.5  | 6326.8  |
| 40°   | 8520.1 | 8505.2 | 8265.0 | 7858.1 | 7560.4 | 7509.8 | 7466.1 | 7085.0  | 6868.6  | 6711.8  |
| 42.5° | 8590.5 | 8623.3 | 8432.7 | 8098.3 | 7814.4 | 7773.8 | 7876.0 | 7468.1  | 7287.5  | 7137.6  |
| 45°   | 8420.8 | 8515.1 | 8390.1 | 8162.8 | 7995.1 | 7973.2 | 8239.2 | 7886.9  | 7750.9  | 7614.0  |
| 47.5° | 7991.1 | 8150.9 | 8099.3 | 8067.5 | 8043.7 | 8138.0 | 8558.8 | 8331.5  | 8275.9  | 8156.8  |
| 50°   | 7123.7 | 7426.4 | 7516.7 | 7717.2 | 7947.4 | 8266.0 | 8849.6 | 8816.8  | 8889.2  | 8769.2  |
| 52.5° | 5624.1 | 6041.0 | 6565.0 | 7067.1 | 7651.7 | 8223.3 | 9169.1 | 9513.5  | 9819.2  | 9753.7  |
| 55°   | 4642.6 | 4830.2 | 5233.1 | 6154.1 | 7078.1 | 8043.7 | 9313.0 | 10076.2 | 10742.1 | 10683.6 |
| 57.5° | 3888.4 | 4056.1 | 4304.2 | 5073.3 | 6210.7 | 7635.8 | 9402.3 | 10419.6 | 11374.3 | 11368.4 |
| 60°   | 3079.5 | 3257.2 | 3511.2 | 4056.1 | 5197.4 | 6931.2 | 9382.5 | 10810.6 | 12181.2 | 12230.8 |
| 62.5° | 2166.5 | 2362.0 | 2643.8 | 3152.0 | 4162.3 | 6018.1 | 8977.6 | 11093.4 | 13130.9 | 13265.9 |
| 65°   | 1424.1 | 1553.2 | 1765.5 | 2204.2 | 3101.4 | 4844.1 | 8204.5 | 11130.2 | 14147.2 | 14375.4 |
| 67.5° | 998.4  | 1048.0 | 1173.1 | 1411.2 | 2044.4 | 3714.7 | 6972.9 | 10750.1 | 14825.0 | 15082.1 |
| 70°   | 779.1  | 803.9  | 867.4  | 962.7  | 1284.2 | 2498.0 | 5343.3 | 9761.6  | 14680.1 | 14948.1 |
| 72.5° | 672.9  | 696.7  | 720.5  | 732.4  | 861.4  | 1542.2 | 3619.4 | 8161.8  | 13315.5 | 13497.1 |
| 75°   | 610.3  | 616.3  | 636.2  | 632.2  | 657.0  | 1000.4 | 2089.1 | 5946.7  | 10505.9 | 10443.4 |
| 77.5° | 513.1  | 521.0  | 553.8  | 548.8  | 583.6  | 683.8  | 1084.7 | 3837.8  | 6811.1  | 6386.3  |
| 80°   | 434.7  | 438.7  | 474.4  | 468.4  | 507.1  | 495.2  | 553.8  | 1956.1  | 2889.0  | 2447.3  |
| 82.5° | 150.9  | 186.6  | 362.2  | 373.2  | 387.1  | 299.7  | 319.6  | 797.9   | 882.3   | 675.8   |
| 85°   | 73.4   | 78.4   | 184.6  | 262.0  | 261.0  | 150.9  | 155.8  | 284.8   | 277.9   | 218.3   |
| 87.5° | 11.9   | 14.9   | 21.8   | 102.2  | 81.4   | 39.7   | 53.6   | 55.6    | 57.6    | 49.6    |
| 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):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2255.8  | 0°    | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 | 2255.8 |
| 2336.2  | 2.5°  | 2280.6 | 2231.0 | 2126.8 | 2030.5 | 1955.1 | 1882.7 | 1842.0 | 1807.2 | 1787.4 | 1783.4 |
| 2445.4  | 5°    | 2342.1 | 2239.9 | 2050.4 | 1890.6 | 1786.4 | 1709.0 | 1668.3 | 1642.5 | 1629.6 | 1621.6 |
| 2592.2  | 7.5°  | 2430.5 | 2280.6 | 2010.7 | 1829.1 | 1719.9 | 1664.3 | 1643.5 | 1639.5 | 1638.5 | 1639.5 |
| 2769.9  | 10°   | 2552.5 | 2347.1 | 2006.7 | 1814.2 | 1722.9 | 1692.1 | 1691.1 | 1692.1 | 1696.1 | 1697.1 |
| 2963.4  | 12.5° | 2684.5 | 2415.6 | 2022.6 | 1827.1 | 1760.6 | 1743.7 | 1740.7 | 1739.7 | 1742.7 | 1744.7 |
| 3158.9  | 15°   | 2828.4 | 2505.9 | 2049.4 | 1854.9 | 1802.3 | 1784.4 | 1781.4 | 1775.5 | 1774.5 | 1773.5 |
| 3364.4  | 17.5° | 2976.3 | 2595.2 | 2079.2 | 1884.6 | 1829.1 | 1804.2 | 1793.3 | 1779.4 | 1768.5 | 1765.5 |
| 3576.7  | 20°   | 3126.2 | 2683.5 | 2100.0 | 1899.5 | 1831.0 | 1796.3 | 1774.5 | 1750.7 | 1731.8 | 1720.9 |
| 3791.1  | 22.5° | 3286.0 | 2775.8 | 2112.9 | 1895.6 | 1813.2 | 1765.5 | 1725.8 | 1698.1 | 1669.3 | 1650.4 |
| 4007.5  | 25°   | 3441.8 | 2856.2 | 2111.9 | 1874.7 | 1778.4 | 1717.9 | 1667.3 | 1631.6 | 1591.9 | 1572.0 |
| 4230.8  | 27.5° | 3591.6 | 2928.7 | 2087.1 | 1838.0 | 1728.8 | 1661.3 | 1600.8 | 1558.1 | 1519.4 | 1500.6 |
| 4456.0  | 30°   | 3746.4 | 2989.2 | 2048.4 | 1784.4 | 1670.3 | 1595.8 | 1529.3 | 1492.6 | 1457.9 | 1440.0 |
| 4694.2  | 32.5° | 3900.3 | 3044.8 | 1993.8 | 1717.9 | 1602.8 | 1531.3 | 1465.8 | 1432.1 | 1411.2 | 1411.2 |
| 4950.3  | 35°   | 4063.0 | 3083.5 | 1921.4 | 1640.5 | 1531.3 | 1462.9 | 1411.2 | 1391.4 | 1389.4 | 1377.5 |
| 5221.2  | 37.5° | 4234.7 | 3108.3 | 1833.0 | 1561.1 | 1460.9 | 1396.4 | 1380.5 | 1356.7 | 1336.8 | 1311.0 |
| 5518.9  | 40°   | 4415.3 | 3133.1 | 1726.8 | 1478.7 | 1386.4 | 1350.7 | 1343.8 | 1312.0 | 1255.4 | 1191.9 |
| 5856.4  | 42.5° | 4634.7 | 3150.0 | 1616.7 | 1396.4 | 1308.0 | 1296.1 | 1306.0 | 1251.5 | 1161.2 | 1113.5 |
| 6263.3  | 45°   | 4888.7 | 3177.8 | 1515.4 | 1315.0 | 1227.6 | 1227.6 | 1269.3 | 1197.9 | 1123.4 | 1093.7 |
| 6727.7  | 47.5° | 5218.2 | 3242.3 | 1421.2 | 1225.7 | 1153.2 | 1173.1 | 1187.9 | 1133.4 | 1091.7 | 1055.0 |
| 7293.4  | 50°   | 5694.6 | 3397.1 | 1323.9 | 1135.3 | 1096.6 | 1136.3 | 1115.5 | 1083.7 | 1035.1 | 1005.3 |
| 8192.6  | 52.5° | 6286.1 | 3488.4 | 1237.6 | 1054.0 | 1048.0 | 1087.7 | 1057.9 | 1028.2 | 991.4  | 951.7  |
| 8874.4  | 55°   | 6689.0 | 3505.3 | 1165.1 | 994.4  | 1015.3 | 1011.3 | 1000.4 | 973.6  | 953.7  | 901.1  |
| 9547.2  | 57.5° | 7139.6 | 3539.0 | 1105.6 | 958.7  | 994.4  | 950.8  | 946.8  | 924.0  | 898.2  | 862.4  |
| 10368.0 | 60°   | 7678.5 | 3591.6 | 1054.0 | 944.8  | 976.6  | 911.1  | 891.2  | 882.3  | 856.5  | 838.6  |
| 11355.5 | 62.5° | 8266.0 | 3639.3 | 1001.4 | 946.8  | 955.7  | 872.4  | 842.6  | 839.6  | 823.7  | 817.8  |
| 12282.4 | 65°   | 8666.9 | 3509.3 | 935.9  | 944.8  | 923.0  | 832.7  | 794.9  | 793.9  | 781.0  | 779.1  |
| 12684.3 | 67.5° | 8527.0 | 3097.4 | 847.5  | 917.0  | 889.2  | 793.0  | 751.3  | 747.3  | 730.4  | 731.4  |
| 12264.5 | 70°   | 7826.4 | 2509.9 | 725.5  | 848.5  | 847.5  | 757.2  | 705.6  | 692.7  | 669.9  | 673.9  |
| 10663.7 | 72.5° | 6512.4 | 1859.8 | 561.7  | 734.4  | 781.0  | 724.5  | 653.0  | 632.2  | 603.4  | 607.4  |
| 7872.0  | 75°   | 4703.2 | 1264.4 | 408.9  | 558.7  | 679.8  | 685.8  | 601.4  | 565.7  | 531.0  | 536.9  |
| 4381.6  | 77.5° | 2406.7 | 716.5  | 300.7  | 385.1  | 533.9  | 623.2  | 554.8  | 507.1  | 499.2  | 554.8  |
| 1263.4  | 80°   | 785.0  | 359.3  | 208.4  | 269.9  | 350.3  | 510.1  | 486.3  | 431.7  | 429.7  | 442.6  |
| 265.0   | 82.5° | 234.2  | 151.8  | 134.0  | 177.6  | 193.5  | 391.0  | 419.8  | 326.5  | 280.9  | 295.7  |
| 88.3    | 85°   | 80.4   | 73.4   | 76.4   | 88.3   | 92.3   | 229.3  | 293.8  | 216.4  | 204.4  | 225.3  |
| 19.8    | 87.5° | 18.9   | 25.8   | 21.8   | 19.8   | 19.8   | 55.6   | 114.1  | 90.3   | 125.0  | 83.4   |
| 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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| 180°   |
|--------|
| 2255.8 |
| 1783.4 |
| 1620.6 |
| 1642.5 |
| 1698.1 |
| 1745.7 |
| 1772.5 |
| 1768.5 |
| 1724.9 |
| 1651.4 |
| 1572.0 |
| 1499.6 |
| 1439.0 |
| 1412.2 |
| 1374.5 |
| 1307.0 |
| 1183.0 |
| 1114.5 |
| 1098.6 |
| 1054.0 |
| 1002.4 |
| 943.8  |
| 902.1  |
| 850.5  |
| 843.6  |
| 817.8  |
| 778.1  |
| 731.4  |
| 677.8  |
| 606.4  |
| 538.9  |
| 546.8  |
| 380.1  |
| 305.7  |
| 222.3  |
| 80.4   |
| 0.0    |

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