

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: P943371

Luminaire Tested: **GLAN-SB7D-827-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43928 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 512.8  
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



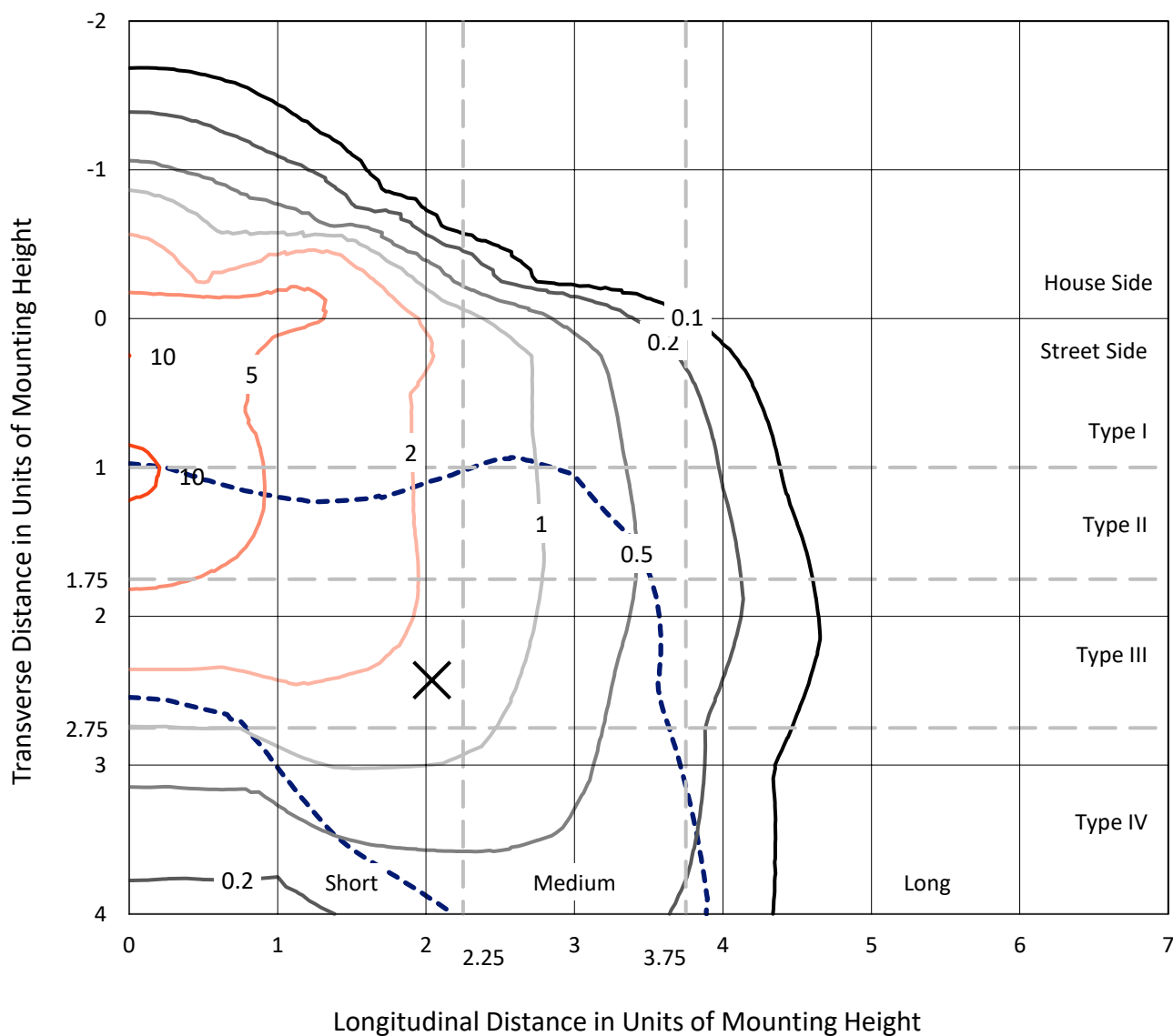
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

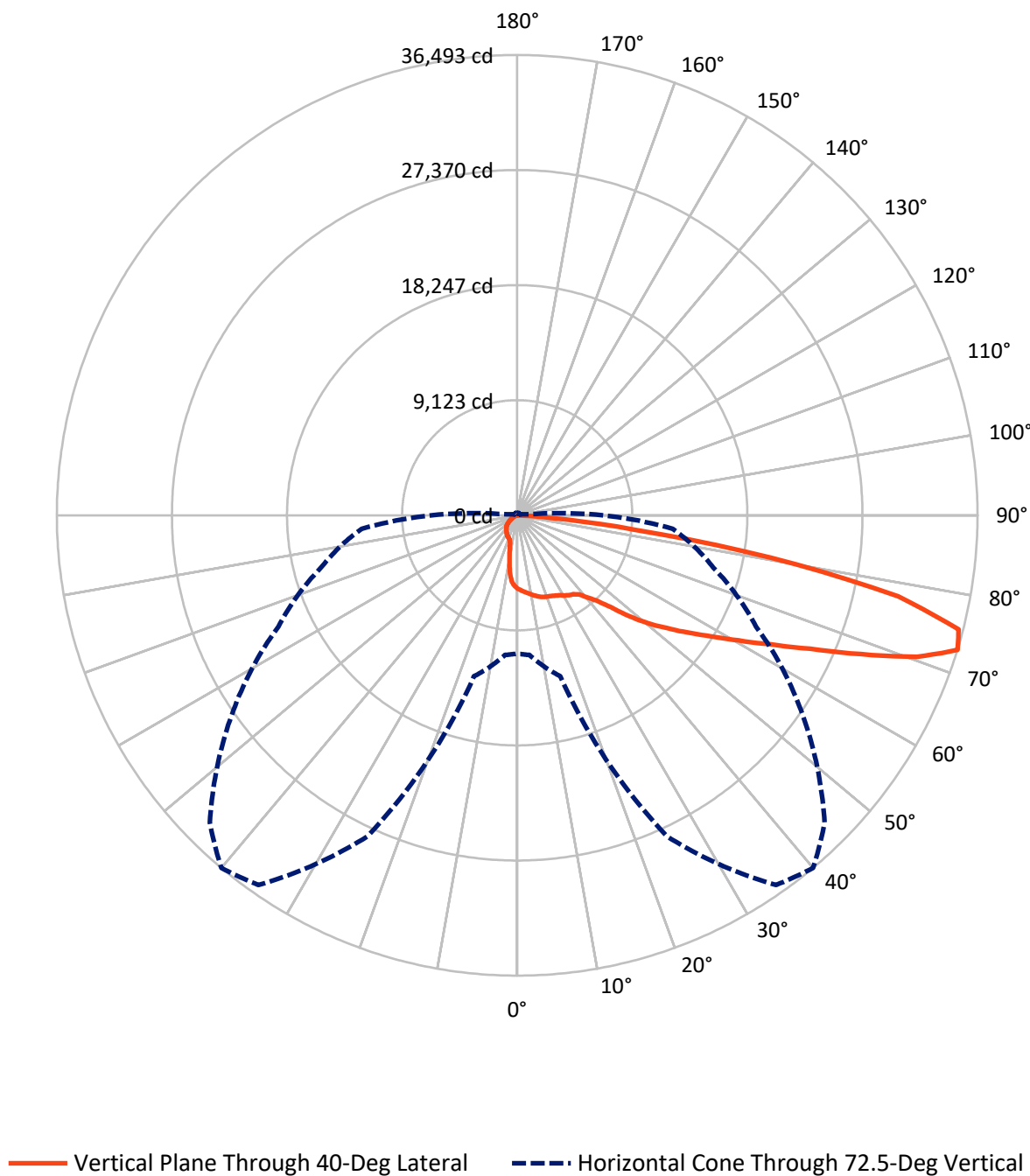


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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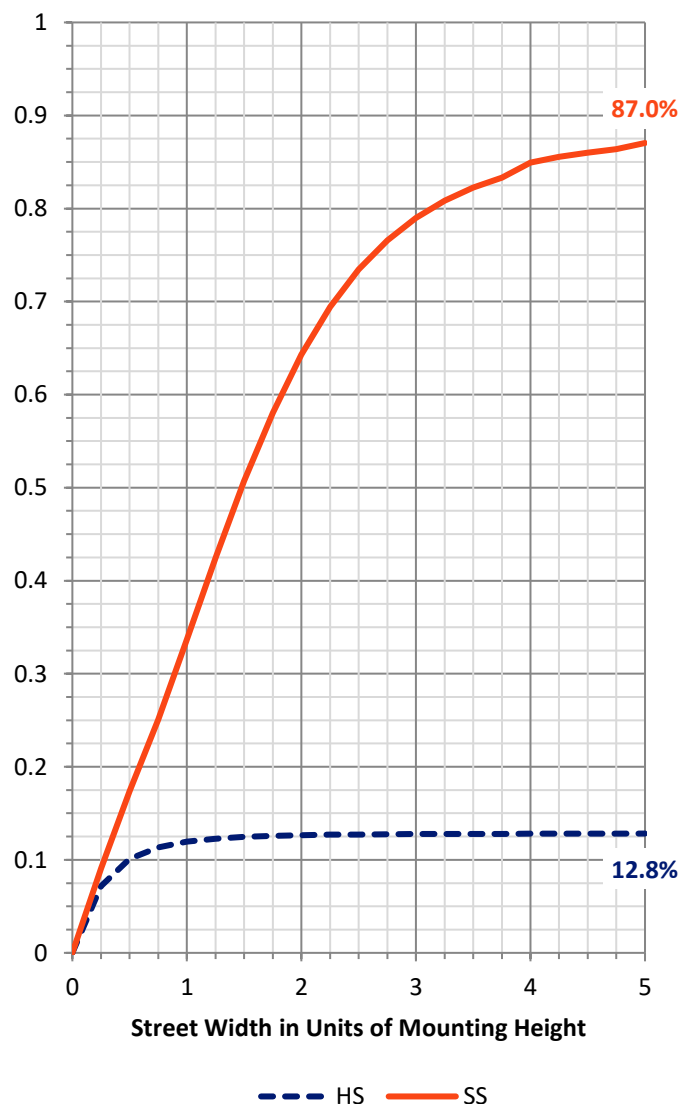
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5672.8   | 0.0    | 5672.8  |
|                    | % Fixture | 12.9     | 0.0    | 12.9    |
| <b>Street Side</b> | Lumens    | 38255.2  | 0.0    | 38255.2 |
|                    | % Fixture | 87.1     | 0.0    | 87.1    |
| <b>Total</b>       | Lumens    | 43928.0  | 0.0    | 43928.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 531.2   | 1.2       |
| 10°-20°   | 1442.5  | 3.3       |
| 20°-30°   | 2334.2  | 5.3       |
| 30°-40°   | 3446.0  | 7.8       |
| 40°-50°   | 5799.8  | 13.2      |
| 50°-60°   | 9005.5  | 20.5      |
| 60°-70°   | 11268.5 | 25.7      |
| 70°-80°   | 9225.5  | 21.0      |
| 80°-90°   | 874.8   | 2.0       |
| 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°    | 43928.0 | 100.0     |
| 0°-180°   | 43928.0 | 100.0     |

**Coefficient of Utilization**



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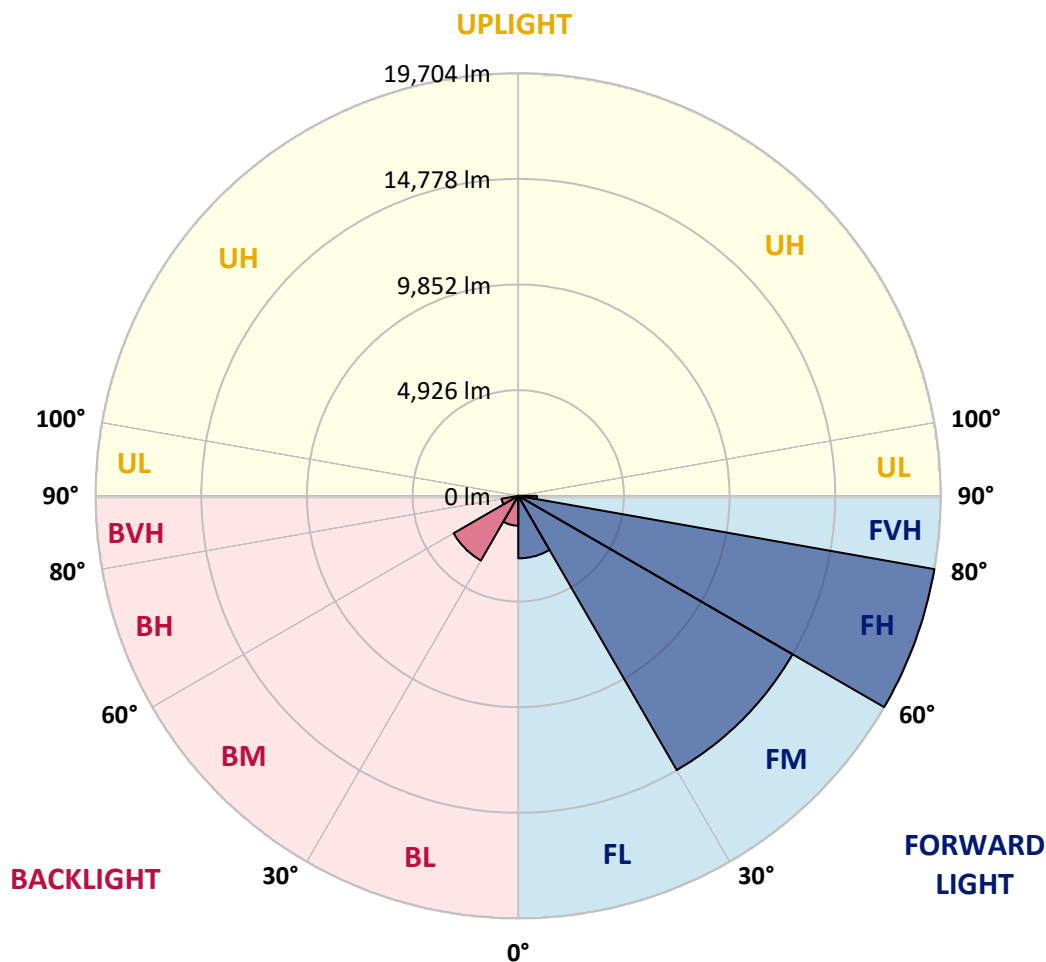
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2915.5  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 14767.9 | 33.6      |                         |      |         |
| FH   | (60°-80°)   | 19703.7 | 44.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 868.1   | 2.0       |                         |      | G5      |
| BL   | (0°-30°)    | 1392.4  | 3.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3483.5  | 7.9       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 790.3   | 1.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 6.7     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5816.4  | 5816.4  | 5816.4  | 5816.4  | 5816.4  | 5816.4  | 5816.4  | 5816.4  | 5816.4  | 5816.4  |
| 2.5°  | 5991.8  | 6014.9  | 6001.7  | 5975.2  | 5968.6  | 5955.4  | 5938.8  | 5932.2  | 5909.1  | 5889.2  |
| 5°    | 6160.5  | 6183.7  | 6167.1  | 6130.7  | 6114.2  | 6097.6  | 6074.5  | 6054.6  | 6008.3  | 5965.3  |
| 7.5°  | 6345.8  | 6365.6  | 6345.8  | 6292.9  | 6266.4  | 6246.5  | 6213.4  | 6183.7  | 6130.7  | 6067.9  |
| 10°   | 6550.9  | 6567.5  | 6537.7  | 6468.2  | 6425.2  | 6395.4  | 6365.6  | 6332.6  | 6282.9  | 6213.4  |
| 12.5° | 6742.8  | 6762.7  | 6716.3  | 6633.6  | 6584.0  | 6554.2  | 6521.1  | 6494.7  | 6445.0  | 6378.9  |
| 15°   | 6918.2  | 6947.9  | 6868.5  | 6779.2  | 6723.0  | 6699.8  | 6666.7  | 6650.2  | 6617.1  | 6570.8  |
| 17.5° | 7050.5  | 7070.4  | 6987.6  | 6881.8  | 6818.9  | 6802.4  | 6779.2  | 6789.1  | 6782.5  | 6759.4  |
| 20°   | 7163.0  | 7176.2  | 7067.1  | 6938.0  | 6868.5  | 6871.8  | 6865.2  | 6898.3  | 6911.6  | 6911.6  |
| 22.5° | 7302.0  | 7305.3  | 7166.3  | 7004.2  | 6921.5  | 6944.6  | 6954.6  | 6991.0  | 7017.4  | 7043.9  |
| 25°   | 7483.9  | 7477.3  | 7311.9  | 7090.2  | 7017.4  | 7050.5  | 7073.7  | 7086.9  | 7116.7  | 7159.7  |
| 27.5° | 7755.2  | 7735.4  | 7523.6  | 7229.2  | 7143.2  | 7172.9  | 7215.9  | 7209.3  | 7196.1  | 7229.2  |
| 30°   | 8099.3  | 8072.9  | 7791.6  | 7424.4  | 7345.0  | 7371.4  | 7384.7  | 7325.1  | 7229.2  | 7258.9  |
| 32.5° | 8645.2  | 8598.9  | 8208.5  | 7642.7  | 7520.3  | 7550.1  | 7533.6  | 7411.1  | 7268.9  | 7298.7  |
| 35°   | 9594.8  | 9482.3  | 8929.8  | 8099.3  | 7718.8  | 7685.8  | 7646.0  | 7526.9  | 7351.6  | 7321.8  |
| 37.5° | 11613.0 | 11414.5 | 10471.5 | 8989.3  | 8168.8  | 7953.7  | 7831.3  | 7712.2  | 7440.9  | 7321.8  |
| 40°   | 13889.3 | 13687.5 | 12598.9 | 10478.2 | 8916.5  | 8552.6  | 8261.4  | 7930.6  | 7533.6  | 7364.8  |
| 42.5° | 16264.8 | 16043.1 | 14924.8 | 12324.3 | 9985.2  | 9237.5  | 8694.9  | 8105.9  | 7685.8  | 7497.2  |
| 45°   | 18918.3 | 18640.3 | 17178.0 | 14249.9 | 11536.9 | 10375.6 | 9393.0  | 8466.6  | 7950.4  | 7732.1  |
| 47.5° | 21717.3 | 21356.7 | 19424.5 | 16119.2 | 13207.7 | 11950.5 | 10670.1 | 9111.7  | 8340.8  | 8082.8  |
| 50°   | 24198.7 | 23841.4 | 21743.8 | 18074.6 | 14769.3 | 13449.2 | 12125.8 | 10005.0 | 8926.5  | 8579.1  |
| 52.5° | 25982.0 | 25710.7 | 23854.6 | 20092.8 | 16393.8 | 14855.4 | 13445.9 | 11043.9 | 9667.6  | 9214.3  |
| 55°   | 27176.4 | 26928.3 | 25350.1 | 22005.1 | 18283.0 | 16403.8 | 14746.2 | 12172.1 | 10560.9 | 9975.3  |
| 57.5° | 27901.0 | 27758.7 | 26432.0 | 23712.3 | 20155.7 | 18097.7 | 16235.0 | 13412.8 | 11613.0 | 10871.9 |
| 60°   | 28159.0 | 28043.2 | 27103.6 | 25340.2 | 22418.7 | 20132.5 | 17985.3 | 14812.4 | 12890.1 | 11890.9 |
| 62.5° | 27470.9 | 27494.0 | 27586.7 | 27269.0 | 24804.2 | 22514.7 | 20082.9 | 16493.1 | 14306.2 | 13045.6 |
| 65°   | 24231.8 | 24423.7 | 26183.8 | 29406.4 | 27963.8 | 25499.0 | 22752.9 | 18544.4 | 15927.3 | 14359.1 |
| 67.5° | 20063.0 | 20340.9 | 22531.2 | 30657.0 | 31331.9 | 29373.3 | 26471.7 | 21158.1 | 17859.5 | 15695.7 |
| 70°   | 15358.3 | 15656.0 | 18309.5 | 30395.6 | 34485.0 | 33608.2 | 31070.6 | 24483.2 | 19861.2 | 16622.1 |
| 72.5° | 10961.2 | 11113.4 | 13204.4 | 28069.7 | 35778.6 | 36493.3 | 34458.5 | 27633.0 | 20883.5 | 16109.3 |
| 75°   | 7702.3  | 7675.8  | 9062.1  | 22604.0 | 33763.7 | 36142.6 | 33270.7 | 25929.1 | 18898.4 | 12797.5 |
| 77.5° | 3354.9  | 3361.5  | 4526.1  | 13727.2 | 26948.1 | 30868.7 | 27656.1 | 16241.7 | 13174.6 | 6782.5  |
| 80°   | 870.1   | 896.6   | 1660.9  | 5465.7  | 16225.1 | 20374.0 | 16867.0 | 7139.8  | 6087.7  | 1654.3  |
| 82.5° | 307.7   | 327.5   | 764.3   | 1717.1  | 5985.2  | 9343.3  | 7510.4  | 2282.9  | 1588.1  | 473.1   |
| 85°   | 89.3    | 105.9   | 410.3   | 526.1   | 1237.4  | 2640.2  | 1823.0  | 443.3   | 390.4   | 244.8   |
| 87.5° | 0.0     | 13.2    | 82.7    | 72.8    | 72.8    | 49.6    | 92.6    | 49.6    | 62.9    | 29.8    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5816.4  | 0°    | 5816.4  | 5816.4  | 5816.4 | 5816.4 | 5816.4 | 5816.4 | 5816.4 | 5816.4 | 5816.4 | 5816.4 |
| 5866.1  | 2.5°  | 5846.2  | 5823.0  | 5773.4 | 5720.5 | 5670.8 | 5624.5 | 5611.3 | 5561.7 | 5538.5 | 5541.8 |
| 5912.4  | 5°    | 5876.0  | 5833.0  | 5737.0 | 5621.2 | 5502.1 | 5366.5 | 5254.0 | 5095.2 | 4959.5 | 4943.0 |
| 6001.7  | 7.5°  | 5955.4  | 5885.9  | 5730.4 | 5505.4 | 5207.7 | 4833.8 | 4486.4 | 4142.3 | 3947.1 | 3841.2 |
| 6134.0  | 10°   | 6077.8  | 5985.2  | 5746.9 | 5316.8 | 4684.9 | 4016.6 | 3490.5 | 3057.1 | 2835.4 | 2732.9 |
| 6296.2  | 12.5° | 6223.4  | 6120.8  | 5773.4 | 4995.9 | 4010.0 | 3133.2 | 2564.1 | 2299.4 | 2253.1 | 2246.5 |
| 6494.7  | 15°   | 6428.5  | 6316.0  | 5803.2 | 4562.5 | 3278.8 | 2385.5 | 2124.1 | 2127.4 | 2163.8 | 2183.6 |
| 6709.7  | 17.5° | 6656.8  | 6544.3  | 5760.2 | 4033.1 | 2557.5 | 2038.1 | 2031.4 | 2061.2 | 2114.2 | 2134.0 |
| 6908.2  | 20°   | 6888.4  | 6782.5  | 5608.0 | 3411.1 | 2067.8 | 1942.1 | 1968.6 | 2001.7 | 2054.6 | 2081.1 |
| 7103.4  | 22.5° | 7126.6  | 7034.0  | 5366.5 | 2749.4 | 1866.0 | 1872.6 | 1905.7 | 1938.8 | 1998.4 | 2028.1 |
| 7295.3  | 25°   | 7381.4  | 7302.0  | 5045.5 | 2203.5 | 1780.0 | 1799.8 | 1842.9 | 1882.6 | 1945.4 | 1981.8 |
| 7457.5  | 27.5° | 7639.4  | 7579.9  | 4681.6 | 1839.6 | 1700.6 | 1723.8 | 1773.4 | 1826.3 | 1889.2 | 1932.2 |
| 7599.7  | 30°   | 7920.7  | 7887.6  | 4390.4 | 1703.9 | 1624.5 | 1644.3 | 1700.6 | 1760.1 | 1829.6 | 1882.6 |
| 7742.0  | 32.5° | 8208.5  | 8201.9  | 4248.2 | 1803.2 | 1555.0 | 1568.3 | 1617.9 | 1677.4 | 1763.5 | 1829.6 |
| 7861.1  | 35°   | 8493.0  | 8506.3  | 4165.5 | 2084.4 | 1531.9 | 1495.5 | 1528.5 | 1581.5 | 1684.0 | 1766.8 |
| 7996.8  | 37.5° | 8857.0  | 8890.1  | 4162.2 | 2388.8 | 1588.1 | 1422.7 | 1445.8 | 1482.2 | 1571.6 | 1667.5 |
| 8208.5  | 40°   | 9399.6  | 9574.9  | 4373.9 | 2650.1 | 1687.4 | 1356.5 | 1363.1 | 1369.7 | 1416.1 | 1495.5 |
| 8489.7  | 42.5° | 10120.8 | 10633.7 | 5138.2 | 2828.8 | 1727.1 | 1296.9 | 1273.8 | 1237.4 | 1230.8 | 1273.8 |
| 8873.5  | 45°   | 11017.5 | 11914.1 | 6481.4 | 2928.1 | 1687.4 | 1230.8 | 1167.9 | 1072.0 | 1035.6 | 1065.4 |
| 9393.0  | 47.5° | 12072.9 | 13316.9 | 8072.9 | 2951.2 | 1621.2 | 1148.1 | 1035.6 | 909.9  | 880.1  | 890.0  |
| 10091.1 | 50°   | 13101.8 | 14369.0 | 9472.4 | 2759.3 | 1512.0 | 1042.2 | 890.0  | 784.1  | 764.3  | 767.6  |
| 10914.9 | 52.5° | 14011.7 | 14729.6 | 9869.4 | 2306.1 | 1366.4 | 913.2  | 764.3  | 691.5  | 678.3  | 678.3  |
| 11824.7 | 55°   | 14613.8 | 14339.2 | 8800.7 | 1763.5 | 1184.5 | 780.8  | 655.1  | 618.7  | 612.1  | 608.8  |
| 12840.5 | 57.5° | 14739.6 | 13068.8 | 6646.9 | 1273.8 | 926.4  | 658.4  | 582.3  | 562.5  | 549.2  | 536.0  |
| 13882.7 | 60°   | 14289.6 | 10951.3 | 4231.6 | 890.0  | 694.8  | 562.5  | 516.1  | 502.9  | 476.4  | 450.0  |
| 14862.0 | 62.5° | 13316.9 | 8271.4  | 2342.5 | 618.7  | 559.1  | 479.7  | 456.6  | 440.0  | 390.4  | 347.4  |
| 15639.5 | 65°   | 12010.0 | 5498.8  | 1035.6 | 483.0  | 456.6  | 403.6  | 390.4  | 367.2  | 307.7  | 258.1  |
| 15934.0 | 67.5° | 10696.5 | 3166.3  | 466.5  | 387.1  | 367.2  | 330.9  | 320.9  | 304.4  | 261.4  | 215.1  |
| 15182.9 | 70°   | 9197.8  | 1604.6  | 320.9  | 307.7  | 284.5  | 251.4  | 261.4  | 258.1  | 215.1  | 175.4  |
| 12383.9 | 72.5° | 6848.7  | 797.4   | 241.5  | 231.6  | 205.1  | 178.7  | 215.1  | 211.7  | 168.7  | 132.3  |
| 7636.1  | 75°   | 3877.6  | 393.7   | 175.4  | 162.1  | 122.4  | 132.3  | 172.0  | 162.1  | 115.8  | 86.0   |
| 3222.5  | 77.5° | 1538.5  | 201.8   | 115.8  | 99.3   | 72.8   | 89.3   | 125.7  | 109.2  | 59.6   | 36.4   |
| 615.4   | 80°   | 354.0   | 99.3    | 59.6   | 43.0   | 33.1   | 52.9   | 66.2   | 39.7   | 16.5   | 3.3    |
| 165.4   | 82.5° | 99.3    | 43.0    | 19.9   | 16.5   | 16.5   | 19.9   | 16.5   | 6.6    | 0.0    | 0.0    |
| 43.0    | 85°   | 33.1    | 19.9    | 6.6    | 3.3    | 3.3    | 3.3    | 3.3    | 0.0    | 0.0    | 0.0    |
| 13.2    | 87.5° | 13.2    | 6.6     | 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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| 180°   |
|--------|
| 5816.4 |
| 5538.5 |
| 4933.0 |
| 3834.6 |
| 2713.0 |
| 2243.2 |
| 2180.3 |
| 2130.7 |
| 2081.1 |
| 2028.1 |
| 1981.8 |
| 1935.5 |
| 1889.2 |
| 1836.2 |
| 1780.0 |
| 1684.0 |
| 1521.9 |
| 1296.9 |
| 1065.4 |
| 886.7  |
| 767.6  |
| 674.9  |
| 602.2  |
| 529.4  |
| 440.0  |
| 334.2  |
| 248.1  |
| 208.4  |
| 168.7  |
| 125.7  |
| 79.4   |
| 33.1   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |