

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: P954346

Luminaire Tested: **GLAN-SB7C-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7C-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51812 lumens  
Efficiency: N/A  
Efficacy: 147.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 350.5  
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



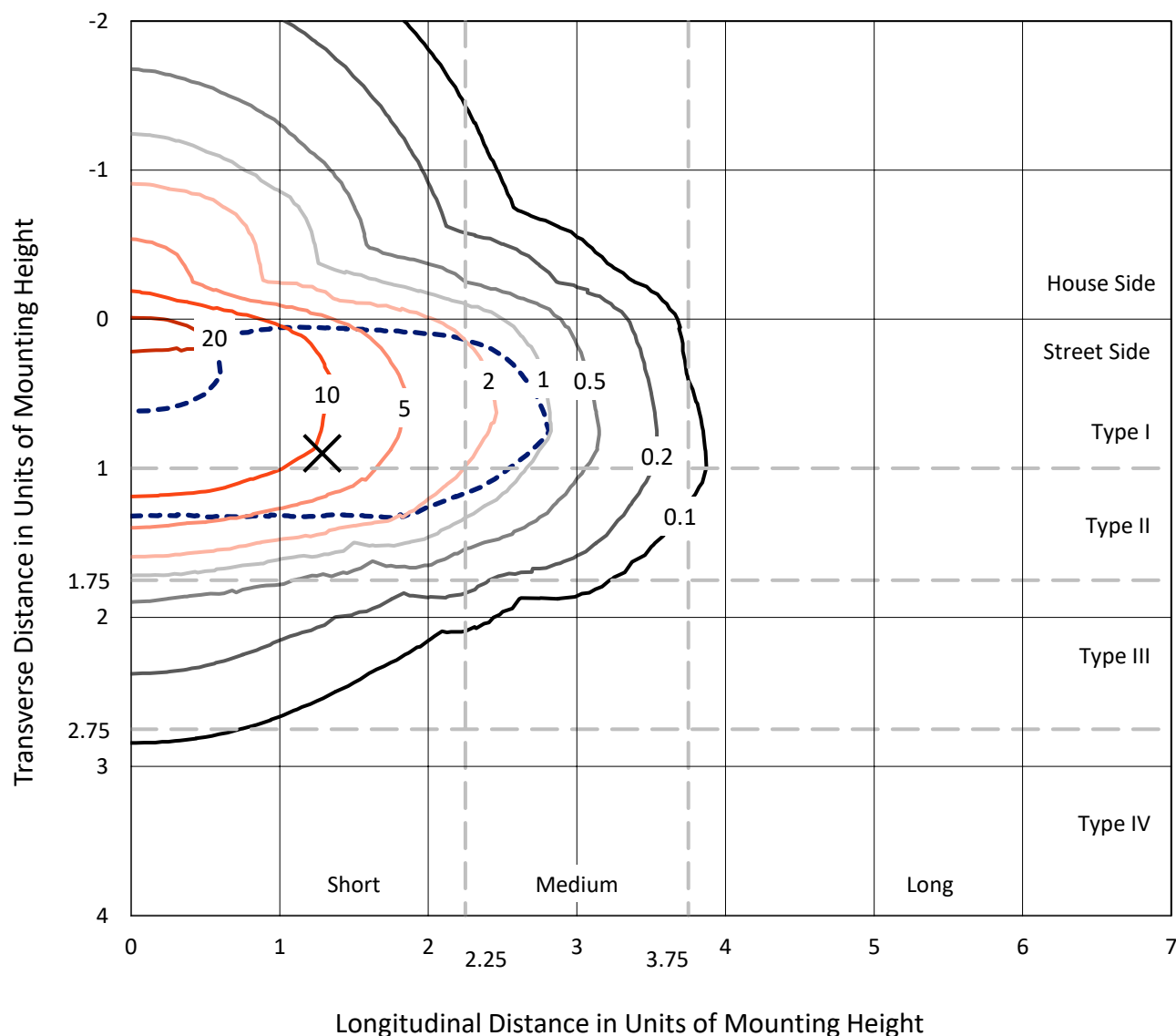
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

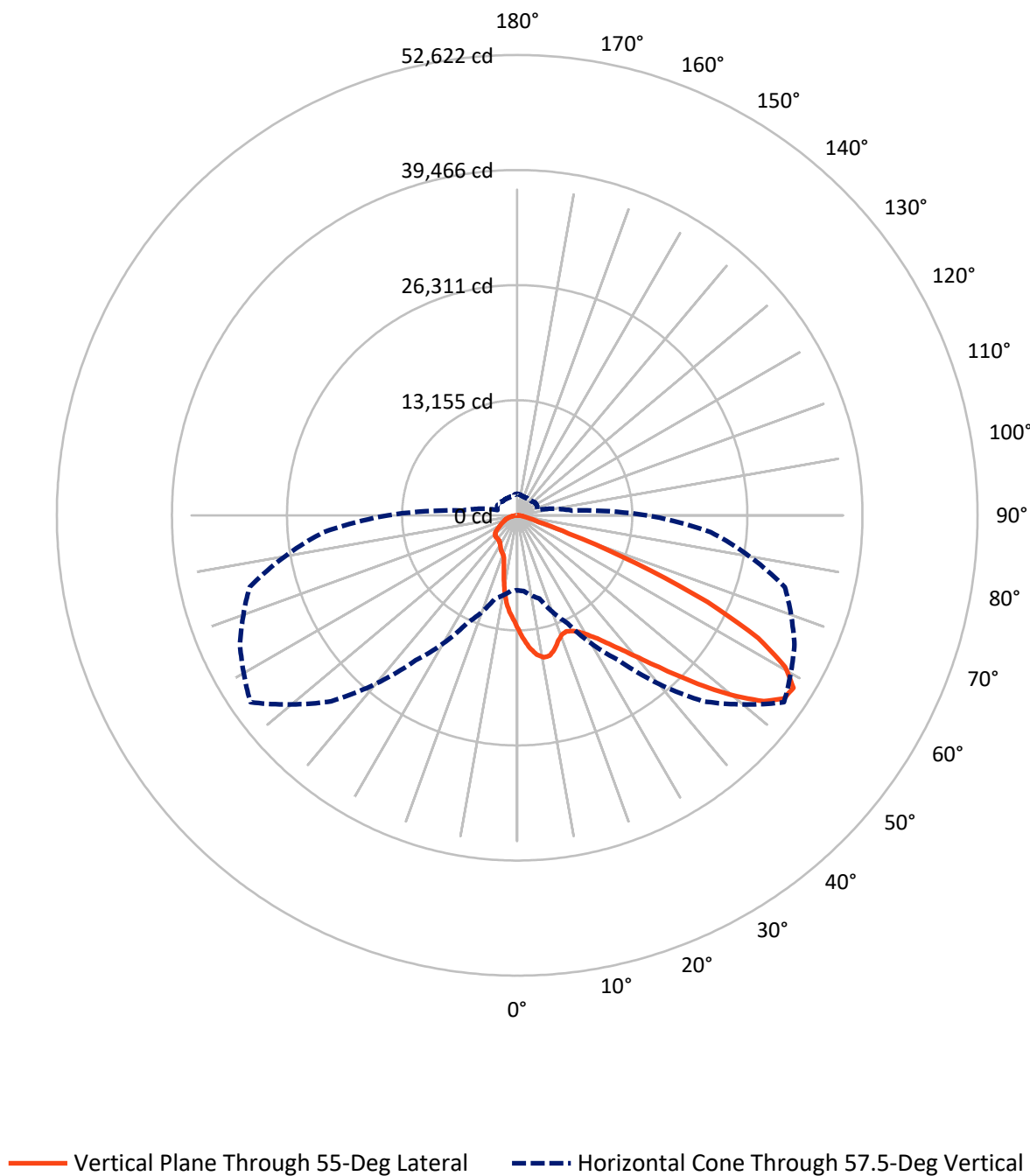


Based on 25 foot mounting height. Maximum calculated value = 25.1 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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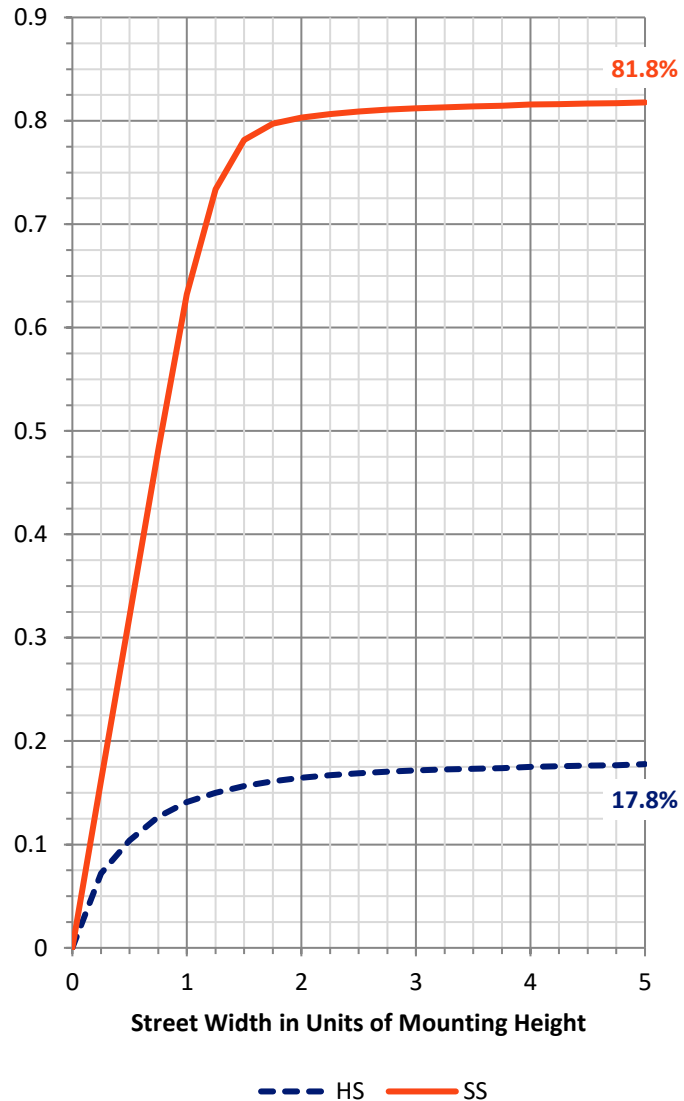
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9375.1   | 0.0    | 9375.1  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 42436.9  | 0.0    | 42436.9 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 51812.0  | 0.0    | 51812.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1204.7  | 2.3       |
| 10°-20°   | 3040.7  | 5.9       |
| 20°-30°   | 4852.1  | 9.4       |
| 30°-40°   | 7682.0  | 14.8      |
| 40°-50°   | 11758.2 | 22.7      |
| 50°-60°   | 12594.1 | 24.3      |
| 60°-70°   | 7923.0  | 15.3      |
| 70°-80°   | 2343.0  | 4.5       |
| 80°-90°   | 414.3   | 0.8       |
| 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°    | 51812.0 | 100.0     |
| 0°-180°   | 51812.0 | 100.0     |

**Coefficient of Utilization**



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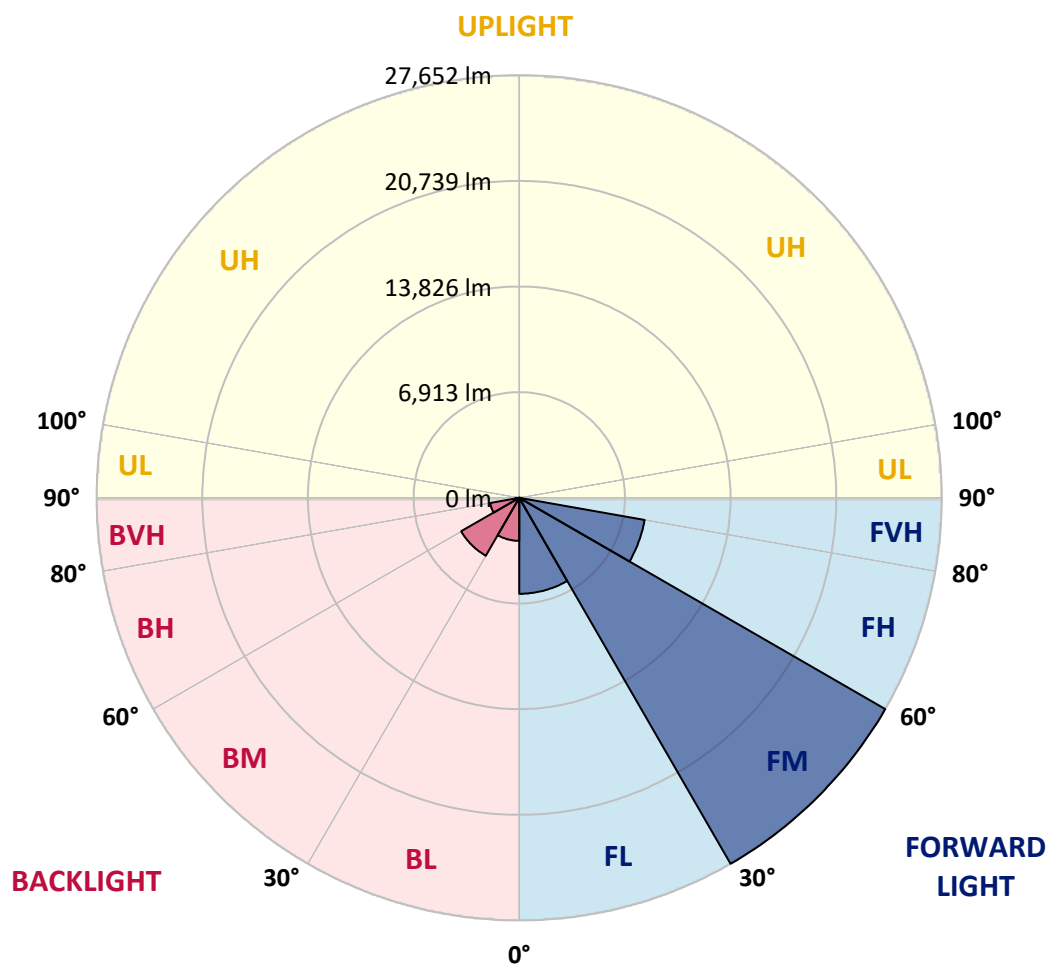
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 6279.6  | 12.1      |                         |      |          |
| FM   | (30°-60°)   | 27652.4 | 53.4      |                         |      |          |
| FH   | (60°-80°)   | 8329.8  | 16.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 175.0   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2817.8  | 5.4       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 4381.8  | 8.5       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1936.2  | 3.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 239.2   | 0.5       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 |
| 2.5°  | 14894.8 | 14884.1 | 14943.0 | 14742.1 | 14605.5 | 14420.7 | 14177.0 | 13866.3 | 13531.5 | 13177.9 |
| 5°    | 16236.7 | 16143.0 | 16204.6 | 16054.6 | 15904.6 | 15626.0 | 15264.4 | 14758.2 | 14139.5 | 13435.1 |
| 7.5°  | 16025.1 | 15960.8 | 16118.9 | 16252.8 | 16365.3 | 16330.5 | 16065.3 | 15535.0 | 14736.8 | 13713.6 |
| 10°   | 14318.9 | 14246.6 | 14468.9 | 14932.3 | 15612.6 | 16204.6 | 16526.0 | 16196.5 | 15347.5 | 14019.0 |
| 12.5° | 12813.7 | 12778.8 | 12926.2 | 13301.1 | 14056.5 | 15192.1 | 16467.1 | 16775.1 | 15982.3 | 14380.6 |
| 15°   | 12170.8 | 12128.0 | 12221.7 | 12411.9 | 12894.0 | 13952.0 | 15931.4 | 17171.5 | 16606.3 | 14798.4 |
| 17.5° | 12028.9 | 11980.7 | 12020.8 | 12119.9 | 12430.6 | 13236.9 | 15122.5 | 17367.0 | 17257.2 | 15264.4 |
| 20°   | 12291.4 | 12251.2 | 12256.5 | 12251.2 | 12468.1 | 13108.3 | 14560.0 | 17292.0 | 17825.0 | 15693.0 |
| 22.5° | 12926.2 | 12859.2 | 12861.9 | 12719.9 | 12837.8 | 13333.3 | 14412.7 | 17091.1 | 18331.3 | 16068.0 |
| 25°   | 13960.0 | 13839.5 | 13863.6 | 13502.0 | 13469.9 | 13836.8 | 14643.0 | 16935.8 | 18834.8 | 16368.0 |
| 27.5° | 15374.3 | 15237.7 | 15165.3 | 14627.0 | 14369.8 | 14552.0 | 15111.8 | 16989.4 | 19311.6 | 16627.8 |
| 30°   | 17142.0 | 16976.0 | 16828.6 | 16065.3 | 15599.2 | 15532.3 | 15840.3 | 17342.9 | 19874.0 | 16901.0 |
| 32.5° | 19308.9 | 19116.0 | 18848.2 | 17835.7 | 17179.5 | 16828.6 | 16783.1 | 17972.3 | 20532.9 | 17249.2 |
| 35°   | 21888.2 | 21636.4 | 21256.1 | 19946.4 | 19116.0 | 18398.2 | 18025.9 | 18880.3 | 21435.6 | 17774.1 |
| 37.5° | 24545.2 | 24261.3 | 23913.1 | 22354.3 | 21333.8 | 20275.8 | 19541.9 | 20112.4 | 22638.2 | 18486.6 |
| 40°   | 26996.0 | 26677.3 | 26353.2 | 24965.8 | 23870.3 | 22595.3 | 21398.1 | 21671.3 | 24108.7 | 19338.3 |
| 42.5° | 28442.4 | 28206.7 | 28083.5 | 27333.5 | 26487.1 | 25193.4 | 23706.9 | 23519.4 | 25761.2 | 20318.7 |
| 45°   | 28378.1 | 28281.7 | 28662.0 | 28972.7 | 28771.8 | 28054.0 | 26412.1 | 25563.0 | 27419.2 | 21167.7 |
| 47.5° | 26862.1 | 26926.4 | 27775.4 | 29521.8 | 30290.5 | 30665.5 | 29492.3 | 27569.2 | 28860.2 | 21802.5 |
| 50°   | 22737.3 | 22790.9 | 24756.8 | 28522.7 | 30681.5 | 32794.8 | 32548.4 | 29527.1 | 29977.1 | 22190.9 |
| 52.5° | 19472.3 | 19507.1 | 20350.8 | 25560.4 | 29390.5 | 33866.2 | 35301.9 | 31372.6 | 30794.0 | 22298.0 |
| 55°   | 14667.1 | 14787.7 | 15733.2 | 20053.5 | 26031.8 | 33017.1 | 36978.6 | 33274.3 | 31311.0 | 22308.7 |
| 57.5° | 8568.3  | 8699.6  | 9867.4  | 13611.8 | 20232.9 | 30057.5 | 37233.0 | 34961.7 | 31661.9 | 22223.0 |
| 60°   | 4197.1  | 4253.4  | 4762.3  | 7154.1  | 12476.2 | 24355.1 | 35186.7 | 35778.6 | 31857.4 | 22177.5 |
| 62.5° | 2828.4  | 2820.4  | 2841.8  | 3530.2  | 6147.0  | 15647.5 | 30922.6 | 34348.3 | 31752.9 | 22003.4 |
| 65°   | 2432.0  | 2402.6  | 2322.2  | 2477.6  | 3184.7  | 7156.8  | 23891.7 | 30078.9 | 30957.4 | 21566.8 |
| 67.5° | 2102.6  | 2105.3  | 2107.9  | 2059.7  | 2274.0  | 3302.5  | 14600.2 | 23693.5 | 28102.2 | 19499.1 |
| 70°   | 1741.0  | 1765.1  | 1775.8  | 1775.8  | 1853.5  | 2166.9  | 6232.7  | 16239.4 | 22166.8 | 15288.5 |
| 72.5° | 1585.6  | 1534.7  | 1540.1  | 1513.3  | 1513.3  | 1649.9  | 2509.7  | 9205.8  | 13965.4 | 8600.5  |
| 75°   | 1293.7  | 1325.8  | 1331.2  | 1312.4  | 1250.8  | 1258.9  | 1489.2  | 3862.3  | 5975.6  | 3567.7  |
| 77.5° | 1116.9  | 1116.9  | 1127.6  | 1114.2  | 1066.0  | 942.8   | 993.7   | 1497.2  | 2032.9  | 1462.4  |
| 80°   | 897.3   | 894.6   | 940.1   | 966.9   | 891.9   | 696.4   | 634.8   | 827.6   | 902.6   | 642.8   |
| 82.5° | 436.6   | 463.4   | 645.5   | 736.6   | 677.6   | 503.5   | 388.4   | 514.3   | 482.1   | 283.9   |
| 85°   | 254.5   | 241.1   | 289.3   | 409.8   | 388.4   | 278.6   | 187.5   | 267.8   | 251.8   | 144.6   |
| 87.5° | 80.4    | 75.0    | 58.9    | 139.3   | 112.5   | 77.7    | 50.9    | 77.7    | 69.6    | 32.1    |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12982.4 | 0°    | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 | 12982.4 |
| 13025.3 | 2.5°  | 12835.1 | 12519.0 | 12205.7 | 11919.1 | 11745.0 | 11632.5 | 11520.0 | 11394.1 | 11345.9 | 11273.6 |
| 13060.1 | 5°    | 12706.5 | 12095.8 | 11552.1 | 11083.4 | 10657.5 | 10322.7 | 9985.2  | 9712.0  | 9588.8  | 9671.9  |
| 13169.9 | 7.5°  | 12631.5 | 11747.6 | 10909.3 | 10049.5 | 9221.9  | 8560.3  | 7984.4  | 7580.0  | 7397.9  | 7443.4  |
| 13277.0 | 10°   | 12564.6 | 11353.9 | 10076.3 | 8718.3  | 7529.1  | 6709.5  | 6120.2  | 5812.2  | 5697.0  | 5721.2  |
| 13421.7 | 12.5° | 12503.0 | 10912.0 | 9071.9  | 7285.4  | 6021.1  | 5480.1  | 5311.3  | 5314.0  | 5335.5  | 5351.5  |
| 13652.0 | 15°   | 12492.3 | 10379.0 | 7949.6  | 6031.9  | 5206.9  | 5172.1  | 5354.2  | 5469.4  | 5531.0  | 5549.7  |
| 13844.9 | 17.5° | 12476.2 | 9741.5  | 6805.9  | 5177.4  | 5008.7  | 5244.4  | 5413.1  | 5488.1  | 5536.3  | 5539.0  |
| 14032.4 | 20°   | 12411.9 | 8932.6  | 5750.6  | 4770.3  | 4965.8  | 5169.4  | 5273.9  | 5332.8  | 5373.0  | 5386.3  |
| 14174.3 | 22.5° | 12213.7 | 8032.6  | 4928.3  | 4588.2  | 4794.4  | 4957.8  | 5081.0  | 5148.0  | 5172.1  | 5188.1  |
| 14201.1 | 25°   | 11857.5 | 7025.6  | 4360.5  | 4414.1  | 4556.0  | 4762.3  | 4861.4  | 4874.8  | 4866.7  | 4890.8  |
| 14134.1 | 27.5° | 11391.4 | 5946.1  | 4006.9  | 4178.4  | 4360.5  | 4537.3  | 4590.8  | 4582.8  | 4566.7  | 4593.5  |
| 14019.0 | 30°   | 10828.9 | 4976.5  | 3782.0  | 3913.2  | 4162.3  | 4323.0  | 4371.2  | 4352.5  | 4320.3  | 4349.8  |
| 13960.0 | 32.5° | 10234.3 | 4183.7  | 3597.1  | 3728.4  | 3998.9  | 4156.9  | 4205.2  | 4186.4  | 4162.3  | 4186.4  |
| 14027.0 | 35°   | 9679.9  | 3629.3  | 3425.7  | 3605.2  | 3870.3  | 4025.7  | 4087.3  | 4090.0  | 4090.0  | 4119.4  |
| 14203.8 | 37.5° | 9171.0  | 3305.2  | 3283.8  | 3527.5  | 3782.0  | 3921.2  | 4009.6  | 4015.0  | 3899.8  | 3907.8  |
| 14503.8 | 40°   | 8699.6  | 3168.6  | 3219.5  | 3476.6  | 3696.2  | 3830.2  | 3835.5  | 3535.5  | 3323.9  | 3318.6  |
| 14846.6 | 42.5° | 8313.9  | 3141.8  | 3238.2  | 3471.3  | 3634.6  | 3640.0  | 3262.3  | 3029.3  | 2970.4  | 2973.1  |
| 15162.7 | 45°   | 7952.3  | 3133.8  | 3281.1  | 3471.3  | 3543.6  | 3144.5  | 2890.0  | 2828.4  | 2833.8  | 2855.2  |
| 15304.6 | 47.5° | 7547.8  | 3101.6  | 3289.1  | 3423.0  | 3281.1  | 2796.3  | 2721.3  | 2694.5  | 2683.8  | 2689.2  |
| 15272.5 | 50°   | 7105.9  | 2986.5  | 3187.3  | 3326.6  | 2831.1  | 2646.3  | 2552.6  | 2544.5  | 2557.9  | 2565.9  |
| 15093.0 | 52.5° | 6639.9  | 2799.0  | 3013.2  | 3152.5  | 2624.9  | 2515.1  | 2410.6  | 2429.3  | 2488.3  | 2507.0  |
| 14905.5 | 55°   | 6334.5  | 2579.3  | 2782.9  | 2804.3  | 2480.2  | 2391.8  | 2303.5  | 2346.3  | 2456.1  | 2491.0  |
| 14793.0 | 57.5° | 6254.2  | 2346.3  | 2520.4  | 2496.3  | 2295.4  | 2284.7  | 2231.1  | 2268.6  | 2407.9  | 2458.8  |
| 14787.7 | 60°   | 6230.1  | 2137.4  | 2263.3  | 2244.5  | 2116.0  | 2166.9  | 2153.5  | 2172.2  | 2220.4  | 2236.5  |
| 14734.1 | 62.5° | 6042.6  | 1971.3  | 2032.9  | 2006.2  | 1955.3  | 2043.7  | 2075.8  | 2035.6  | 2073.1  | 2091.9  |
| 14367.2 | 65°   | 5565.8  | 1837.4  | 1807.9  | 1789.2  | 1810.6  | 1891.0  | 1955.3  | 1874.9  | 1909.7  | 1963.3  |
| 12952.9 | 67.5° | 4778.3  | 1655.3  | 1574.9  | 1596.4  | 1663.3  | 1706.2  | 1789.2  | 1698.1  | 1727.6  | 1818.7  |
| 10432.5 | 70°   | 3865.0  | 1424.9  | 1352.6  | 1414.2  | 1478.5  | 1566.9  | 1580.3  | 1518.7  | 1588.3  | 1690.1  |
| 6366.7  | 72.5° | 2734.7  | 1191.9  | 1141.0  | 1266.9  | 1288.3  | 1403.5  | 1374.0  | 1344.6  | 1441.0  | 1475.8  |
| 3147.2  | 75°   | 1896.3  | 961.6   | 932.1   | 1028.5  | 1106.2  | 1205.3  | 1183.9  | 1218.7  | 1422.3  | 1438.3  |
| 1572.2  | 77.5° | 1199.9  | 747.3   | 728.5   | 790.1   | 897.3   | 1007.1  | 1041.9  | 1438.3  | 2429.3  | 2525.8  |
| 816.9   | 80°   | 696.4   | 557.1   | 535.7   | 583.9   | 677.6   | 779.4   | 1004.4  | 1765.1  | 1601.7  | 1583.0  |
| 366.9   | 82.5° | 388.4   | 383.0   | 356.2   | 369.6   | 452.7   | 562.5   | 1419.6  | 1242.8  | 1009.8  | 1041.9  |
| 147.3   | 85°   | 182.1   | 225.0   | 192.8   | 184.8   | 254.5   | 658.9   | 948.2   | 709.8   | 471.4   | 460.7   |
| 32.1    | 87.5° | 48.2    | 42.9    | 42.9    | 48.2    | 107.1   | 567.8   | 377.7   | 302.7   | 179.5   | 174.1   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF RI



