

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: P957153

Luminaire Tested: **GLAN-SB9C-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9C-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51029 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

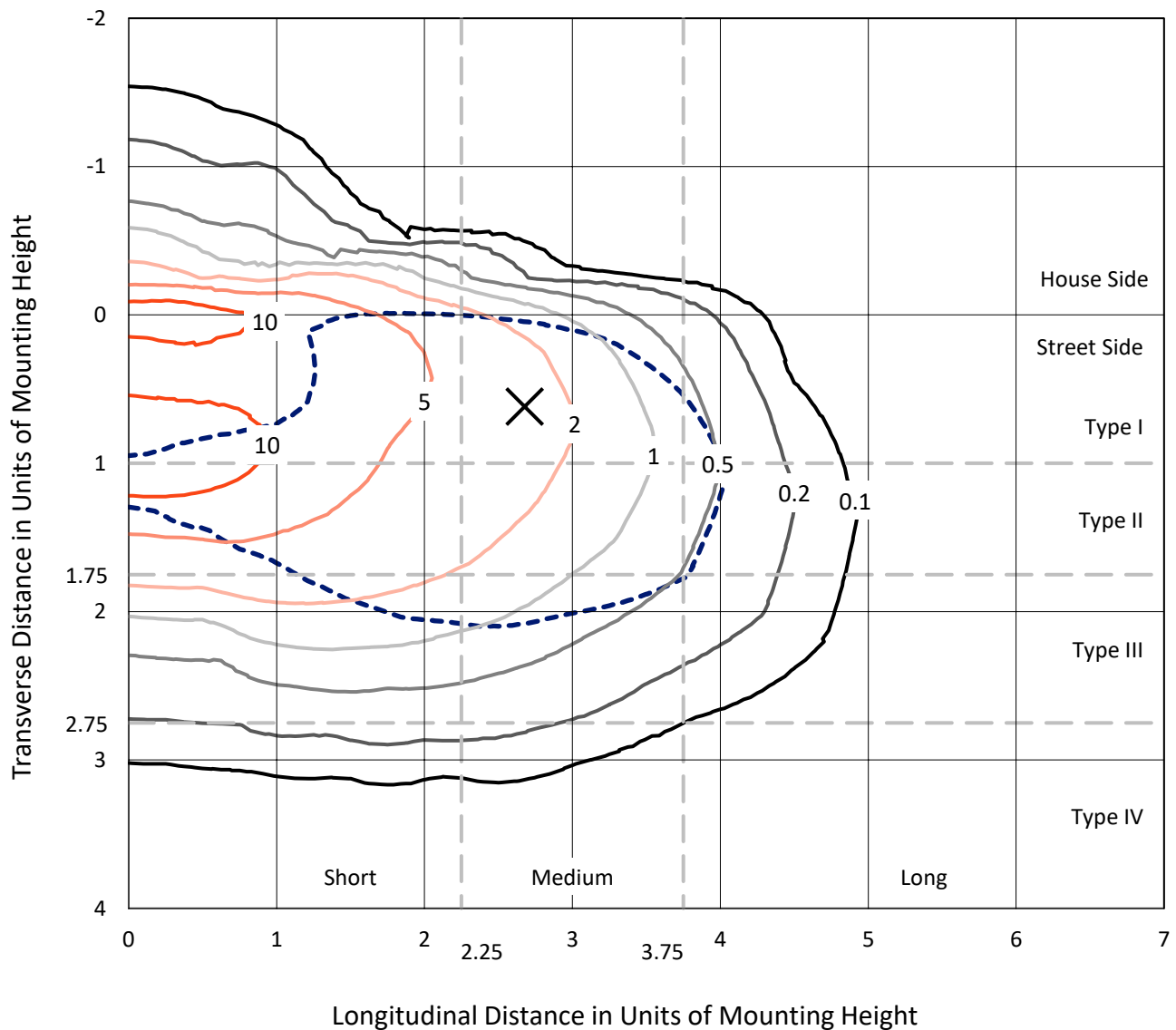
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

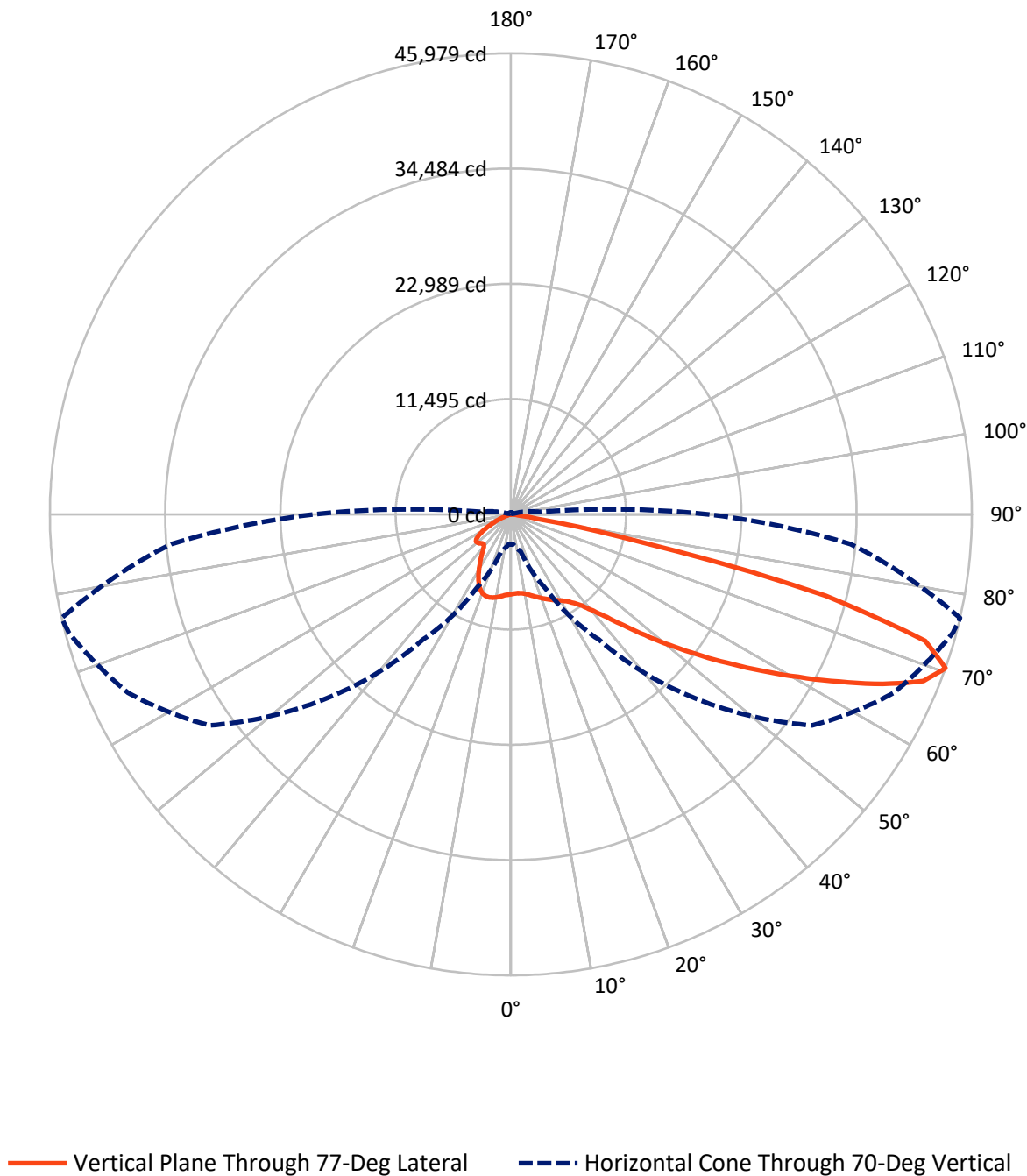
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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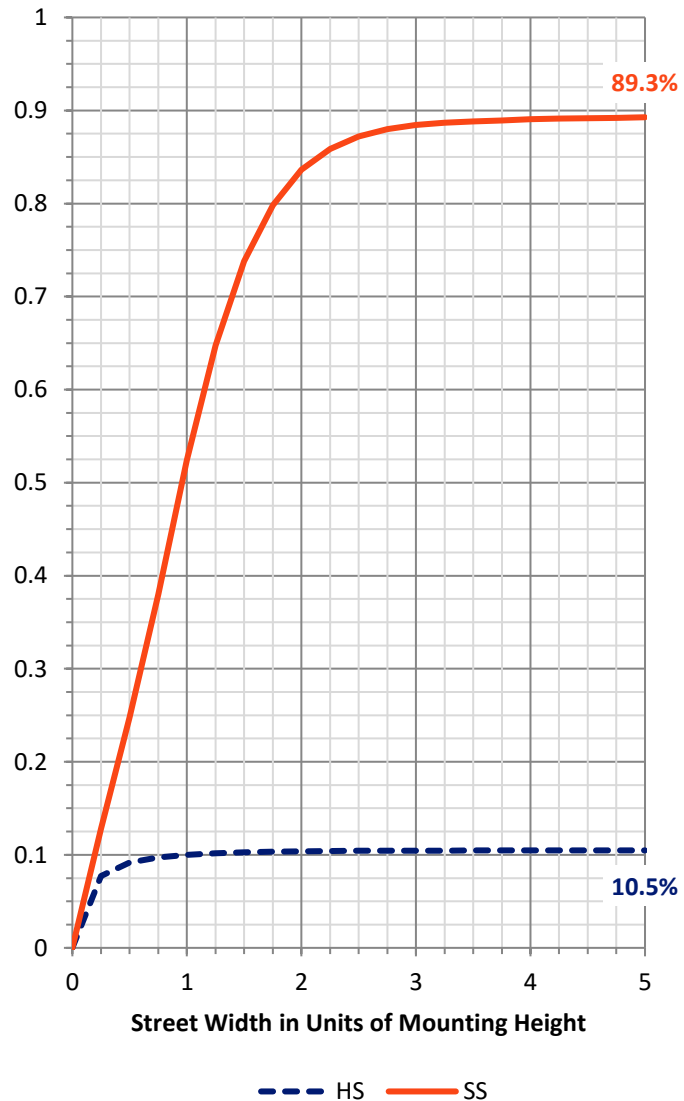
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5379.2   | 0.0    | 5379.2  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 45649.8  | 0.0    | 45649.8 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 51029.0  | 0.0    | 51029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 686.0   | 1.3       |
| 10°-20°   | 1628.5  | 3.2       |
| 20°-30°   | 2518.8  | 4.9       |
| 30°-40°   | 4570.5  | 9.0       |
| 40°-50°   | 8627.3  | 16.9      |
| 50°-60°   | 12465.7 | 24.4      |
| 60°-70°   | 13269.5 | 26.0      |
| 70°-80°   | 7031.9  | 13.8      |
| 80°-90°   | 230.9   | 0.5       |
| 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°    | 51029.0 | 100.0     |
| 0°-180°   | 51029.0 | 100.0     |

**Coefficient of Utilization**



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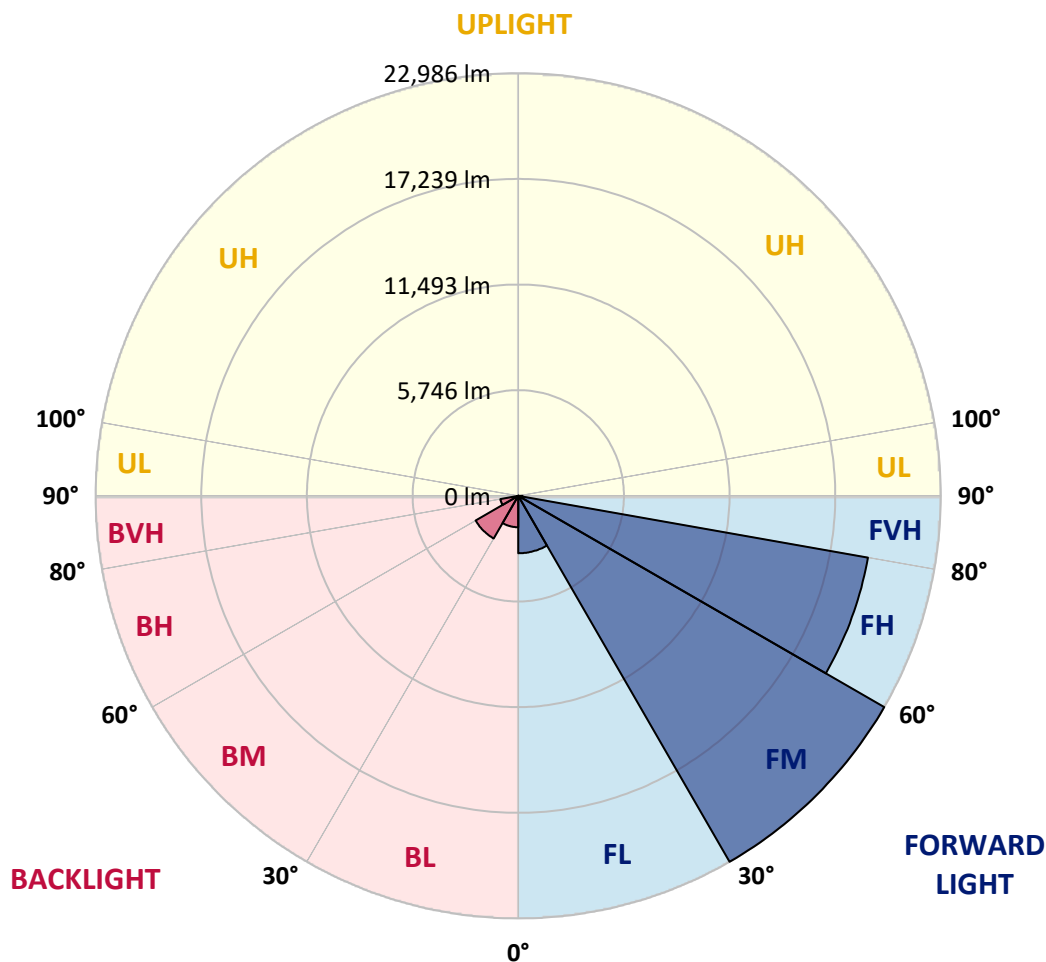
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3124.2  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 22985.8 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 19315.2 | 37.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 224.7   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1709.1  | 3.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2677.8  | 5.2       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 986.1   | 1.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 6.2     | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7959.6  | 7959.6  | 7959.6  | 7959.6  | 7959.6  | 7959.6  | 7959.6  | 7959.6  | 7959.6  | 7959.6  |
| 2.5°  | 7473.0  | 7540.7  | 7531.0  | 7576.1  | 7592.2  | 7656.7  | 7721.1  | 7808.1  | 7904.8  | 7901.6  |
| 5°    | 7050.9  | 7118.5  | 7134.6  | 7195.9  | 7273.2  | 7373.1  | 7505.2  | 7679.2  | 7859.7  | 7888.7  |
| 7.5°  | 6551.4  | 6622.3  | 6664.2  | 6786.6  | 6928.4  | 7134.6  | 7350.5  | 7605.1  | 7904.8  | 7946.7  |
| 10°   | 6051.9  | 6116.3  | 6171.1  | 6345.1  | 6570.7  | 6876.8  | 7228.1  | 7595.5  | 7998.3  | 8059.5  |
| 12.5° | 5742.5  | 5803.7  | 5865.0  | 6016.4  | 6296.8  | 6670.6  | 7147.5  | 7640.6  | 8153.0  | 8240.0  |
| 15°   | 5632.9  | 5687.7  | 5736.1  | 5871.4  | 6132.4  | 6557.8  | 7131.4  | 7734.0  | 8349.5  | 8465.5  |
| 17.5° | 5649.1  | 5678.1  | 5710.3  | 5813.4  | 6068.0  | 6506.2  | 7160.4  | 7895.2  | 8581.5  | 8684.7  |
| 20°   | 5742.5  | 5758.6  | 5761.8  | 5832.7  | 6058.3  | 6499.8  | 7218.4  | 8049.8  | 8800.7  | 8939.2  |
| 22.5° | 5861.7  | 5868.2  | 5861.7  | 5910.1  | 6119.5  | 6548.1  | 7295.8  | 8236.7  | 9045.6  | 9174.5  |
| 25°   | 6419.2  | 6296.8  | 6142.1  | 6048.7  | 6222.7  | 6641.6  | 7411.8  | 8488.1  | 9313.1  | 9438.7  |
| 27.5° | 8149.7  | 7798.5  | 7244.2  | 6622.3  | 6435.4  | 6776.9  | 7572.9  | 8742.7  | 9583.7  | 9696.5  |
| 30°   | 10959.8 | 10498.9 | 9558.0  | 8156.2  | 7118.5  | 7060.5  | 7782.4  | 8997.3  | 9870.6  | 9993.0  |
| 32.5° | 13776.2 | 13663.4 | 12577.5 | 10637.5 | 8655.7  | 7692.1  | 8130.4  | 9342.1  | 10250.8 | 10347.5 |
| 35°   | 16624.9 | 16396.1 | 15506.7 | 13589.3 | 11024.2 | 8977.9  | 8710.4  | 9793.2  | 10750.3 | 10859.9 |
| 37.5° | 18806.6 | 18668.0 | 18117.0 | 16537.9 | 13834.2 | 10963.0 | 9703.0  | 10492.5 | 11475.4 | 11597.8 |
| 40°   | 20733.6 | 20669.2 | 20482.3 | 19441.4 | 16976.2 | 13560.3 | 11246.6 | 11575.3 | 12480.8 | 12625.8 |
| 42.5° | 22248.2 | 22399.7 | 22506.0 | 22216.0 | 20214.8 | 16525.0 | 13321.9 | 13096.3 | 13882.6 | 14030.8 |
| 45°   | 23798.2 | 23849.8 | 24278.4 | 24697.3 | 23430.9 | 19625.1 | 15661.4 | 14878.3 | 15626.0 | 15809.6 |
| 47.5° | 24794.0 | 25000.2 | 25754.3 | 26492.3 | 26134.6 | 22699.4 | 18175.0 | 16982.6 | 17646.5 | 17991.3 |
| 50°   | 24868.1 | 25258.0 | 26295.7 | 27581.5 | 28103.5 | 25625.4 | 20907.7 | 19380.2 | 20085.9 | 20466.2 |
| 52.5° | 23633.9 | 24239.7 | 25847.8 | 27729.7 | 29166.9 | 28103.5 | 23733.8 | 21777.7 | 22683.3 | 23179.5 |
| 55°   | 18120.2 | 18912.9 | 24162.4 | 26924.1 | 29208.8 | 29982.2 | 26485.8 | 24275.2 | 25577.1 | 26137.8 |
| 57.5° | 15787.1 | 16186.7 | 18996.7 | 25525.5 | 28432.2 | 30739.5 | 28973.6 | 26653.4 | 28725.5 | 29421.5 |
| 60°   | 13135.0 | 13660.2 | 15932.1 | 23237.5 | 27378.5 | 30813.7 | 31171.3 | 29721.2 | 32138.1 | 32921.2 |
| 62.5° | 8926.4  | 9496.7  | 11755.7 | 19306.1 | 25938.0 | 30778.2 | 32972.7 | 32879.3 | 35931.0 | 36772.1 |
| 65°   | 5529.8  | 5887.5  | 7376.3  | 15764.5 | 23923.9 | 30816.9 | 34857.9 | 36714.1 | 39933.4 | 40787.3 |
| 67.5° | 4369.7  | 4534.1  | 5310.7  | 12103.8 | 20453.3 | 29946.8 | 36739.8 | 40320.1 | 43700.5 | 44377.2 |
| 70°   | 2935.7  | 3035.6  | 3863.8  | 8114.3  | 15216.7 | 25931.5 | 36704.4 | 42131.1 | 45640.4 | 45978.8 |
| 72.5° | 1546.8  | 1624.1  | 2259.0  | 3757.4  | 9190.6  | 18432.8 | 30939.3 | 39965.6 | 43710.1 | 43201.0 |
| 75°   | 773.4   | 902.3   | 1521.0  | 1907.7  | 3925.0  | 10279.8 | 19212.6 | 31509.7 | 34403.5 | 32431.4 |
| 77.5° | 586.5   | 709.0   | 1256.8  | 1256.8  | 1366.3  | 3461.0  | 8136.8  | 17185.7 | 15851.5 | 13199.4 |
| 80°   | 373.8   | 483.4   | 1098.9  | 950.6   | 570.4   | 879.7   | 2120.4  | 4814.4  | 3367.5  | 2561.9  |
| 82.5° | 219.1   | 315.8   | 915.2   | 628.4   | 319.0   | 325.5   | 599.4   | 1024.8  | 873.3   | 679.9   |
| 85°   | 87.0    | 206.2   | 628.4   | 248.1   | 125.7   | 80.6    | 180.5   | 219.1   | 180.5   | 135.3   |
| 87.5° | 0.0     | 48.3    | 109.6   | 0.0     | 9.7     | 6.4     | 12.9    | 16.1    | 16.1    | 12.9    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7959.6  | 0°    | 7959.6  | 7959.6  | 7959.6 | 7959.6 | 7959.6 | 7959.6 | 7959.6 | 7959.6 | 7959.6 | 7959.6 |
| 7966.0  | 2.5°  | 7995.1  | 8001.5  | 8020.8 | 8024.1 | 7978.9 | 7920.9 | 7898.4 | 7888.7 | 7850.0 | 7846.8 |
| 8017.6  | 5°    | 8091.7  | 8120.7  | 8091.7 | 8007.9 | 7808.1 | 7527.8 | 7315.1 | 7141.1 | 6983.2 | 6934.8 |
| 8194.8  | 7.5°  | 8285.1  | 8314.1  | 8227.1 | 7898.4 | 7395.7 | 6838.2 | 6335.5 | 5981.0 | 5662.0 | 5542.7 |
| 8410.8  | 10°   | 8562.2  | 8600.9  | 8327.0 | 7663.1 | 6773.7 | 5877.9 | 5027.1 | 4427.7 | 3960.5 | 3770.3 |
| 8704.0  | 12.5° | 8910.2  | 8926.4  | 8381.8 | 7305.4 | 5964.9 | 4685.5 | 3480.3 | 2839.0 | 2423.3 | 2268.6 |
| 9058.5  | 15°   | 9293.7  | 9271.2  | 8388.2 | 6818.8 | 4862.8 | 3312.7 | 2271.9 | 1865.8 | 1698.3 | 1646.7 |
| 9413.0  | 17.5° | 9696.5  | 9603.1  | 8259.3 | 6116.3 | 3654.3 | 2265.4 | 1685.4 | 1588.7 | 1559.7 | 1546.8 |
| 9764.2  | 20°   | 10092.9 | 9883.4  | 8024.1 | 5197.9 | 2623.1 | 1691.8 | 1530.7 | 1501.7 | 1485.6 | 1479.1 |
| 10118.7 | 22.5° | 10453.8 | 10096.1 | 7621.2 | 4131.3 | 1904.5 | 1495.2 | 1446.9 | 1421.1 | 1392.1 | 1379.2 |
| 10463.5 | 25°   | 10805.1 | 10218.6 | 7054.1 | 3135.5 | 1524.2 | 1398.6 | 1359.9 | 1311.6 | 1272.9 | 1256.8 |
| 10834.1 | 27.5° | 11146.7 | 10295.9 | 6345.1 | 2320.2 | 1359.9 | 1308.3 | 1237.4 | 1169.8 | 1140.8 | 1134.3 |
| 11230.5 | 30°   | 11510.8 | 10321.7 | 5539.5 | 1730.5 | 1260.0 | 1195.6 | 1092.4 | 1015.1 | 999.0  | 1002.2 |
| 11765.4 | 32.5° | 11955.5 | 10360.4 | 4727.4 | 1417.9 | 1176.2 | 1060.2 | 937.8  | 857.2  | 844.3  | 857.2  |
| 12545.2 | 35°   | 12487.2 | 10437.7 | 3944.4 | 1305.1 | 1102.1 | 921.6  | 789.5  | 721.8  | 709.0  | 718.6  |
| 13544.2 | 37.5° | 13209.1 | 10563.4 | 3212.8 | 1282.6 | 1040.9 | 805.6  | 663.8  | 609.1  | 609.1  | 612.3  |
| 14768.8 | 40°   | 14169.4 | 10898.5 | 2558.7 | 1266.4 | 1008.6 | 718.6  | 560.7  | 538.2  | 547.8  | 554.3  |
| 16328.5 | 42.5° | 15339.2 | 11610.7 | 2117.2 | 1247.1 | 973.2  | 679.9  | 509.2  | 499.5  | 515.6  | 522.0  |
| 18197.5 | 45°   | 16650.7 | 12513.0 | 1962.5 | 1214.9 | 941.0  | 705.7  | 486.6  | 473.7  | 493.0  | 496.3  |
| 20292.2 | 47.5° | 18007.4 | 13396.0 | 1943.2 | 1179.4 | 908.7  | 744.4  | 480.2  | 451.2  | 473.7  | 476.9  |
| 22528.6 | 50°   | 19380.2 | 13972.8 | 1962.5 | 1124.7 | 857.2  | 744.4  | 483.4  | 428.6  | 447.9  | 457.6  |
| 24848.8 | 52.5° | 20762.6 | 14237.1 | 1949.6 | 1005.4 | 767.0  | 699.3  | 483.4  | 409.3  | 428.6  | 435.0  |
| 27355.9 | 55°   | 22103.2 | 14185.5 | 1753.0 | 828.2  | 650.9  | 618.7  | 470.5  | 393.1  | 406.0  | 409.3  |
| 29724.4 | 57.5° | 23163.4 | 13466.9 | 1388.9 | 644.5  | 528.5  | 515.6  | 428.6  | 373.8  | 383.5  | 380.3  |
| 31896.4 | 60°   | 23717.7 | 11887.8 | 992.5  | 496.3  | 415.7  | 406.0  | 377.0  | 348.0  | 354.5  | 338.4  |
| 33736.5 | 62.5° | 23724.1 | 9799.7  | 663.8  | 393.1  | 331.9  | 322.3  | 322.3  | 312.6  | 306.1  | 273.9  |
| 35160.8 | 65°   | 23218.2 | 7482.7  | 441.5  | 312.6  | 267.5  | 251.4  | 270.7  | 267.5  | 244.9  | 199.8  |
| 35595.9 | 67.5° | 22071.0 | 4904.7  | 335.1  | 244.9  | 206.2  | 196.6  | 215.9  | 225.6  | 209.5  | 167.6  |
| 34010.4 | 70°   | 19712.1 | 2855.1  | 277.1  | 190.1  | 154.7  | 145.0  | 174.0  | 193.4  | 174.0  | 135.3  |
| 29070.3 | 72.5° | 16373.6 | 1540.4  | 225.6  | 141.8  | 106.3  | 96.7   | 138.6  | 157.9  | 138.6  | 99.9   |
| 18651.9 | 75°   | 10624.6 | 825.0   | 174.0  | 93.5   | 54.8   | 61.2   | 103.1  | 116.0  | 96.7   | 64.5   |
| 5475.0  | 77.5° | 3567.3  | 364.1   | 109.6  | 45.1   | 25.8   | 25.8   | 61.2   | 70.9   | 45.1   | 22.6   |
| 995.8   | 80°   | 796.0   | 151.5   | 45.1   | 19.3   | 9.7    | 9.7    | 12.9   | 12.9   | 6.4    | 0.0    |
| 306.1   | 82.5° | 261.0   | 61.2    | 19.3   | 6.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.3    | 85°   | 99.9    | 22.6    | 6.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 25.8    | 87.5° | 38.7    | 3.2     | 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°   |
|--------|
| 7959.6 |
| 7853.3 |
| 6905.8 |
| 5494.4 |
| 3689.8 |
| 2220.3 |
| 1646.7 |
| 1543.6 |
| 1472.7 |
| 1376.0 |
| 1250.3 |
| 1127.9 |
| 1002.2 |
| 854.0  |
| 715.4  |
| 609.1  |
| 554.3  |
| 522.0  |
| 499.5  |
| 480.2  |
| 460.8  |
| 435.0  |
| 409.3  |
| 380.3  |
| 335.1  |
| 264.2  |
| 193.4  |
| 164.3  |
| 128.9  |
| 96.7   |
| 58.0   |
| 19.3   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |