

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: P955616

Luminaire Tested: **GLAN-SB8C-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8C-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51273 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

Input Watts (W): 399.8  
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

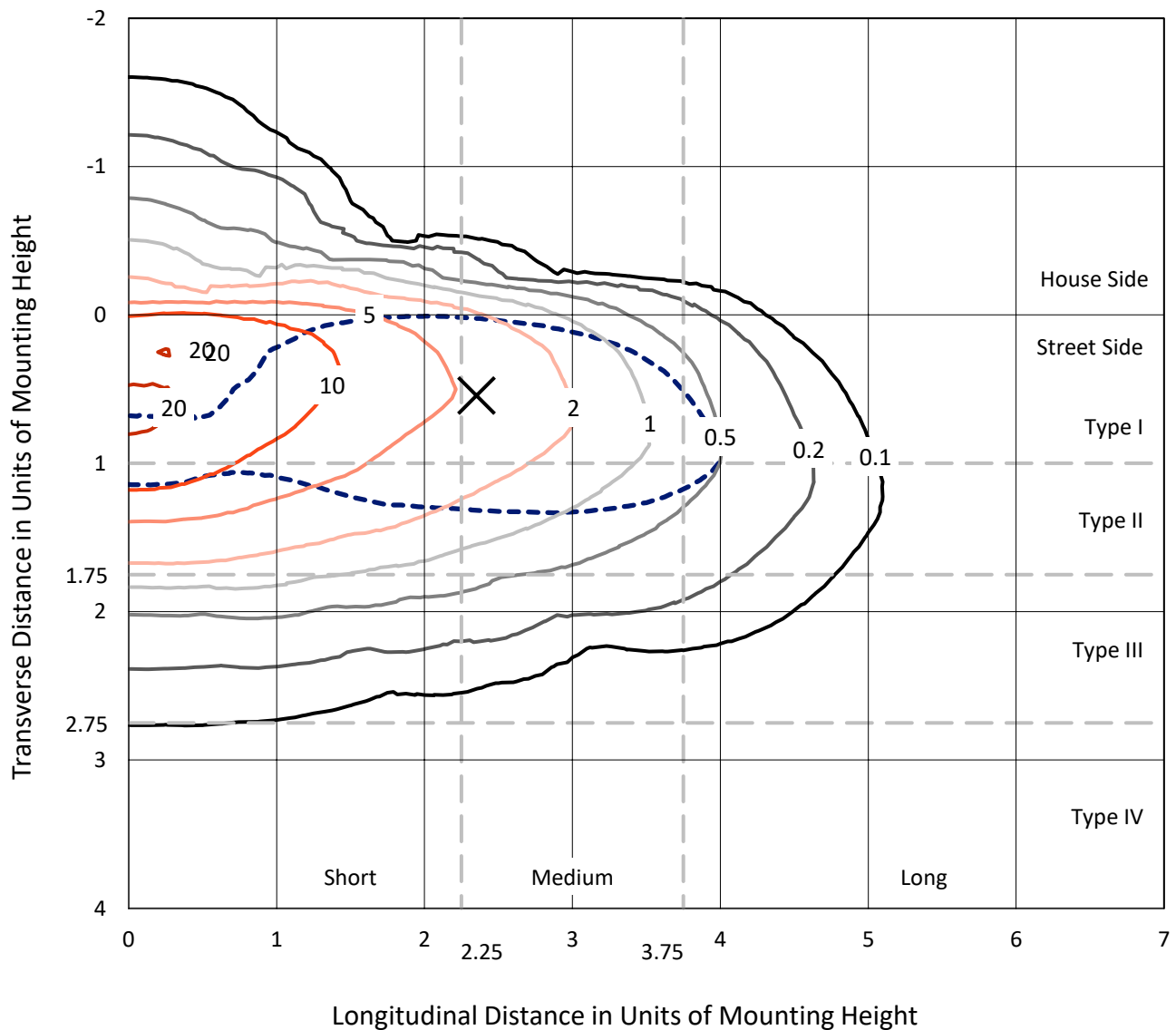


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## Iso-Footcandle Lines of Horizontal Illumination

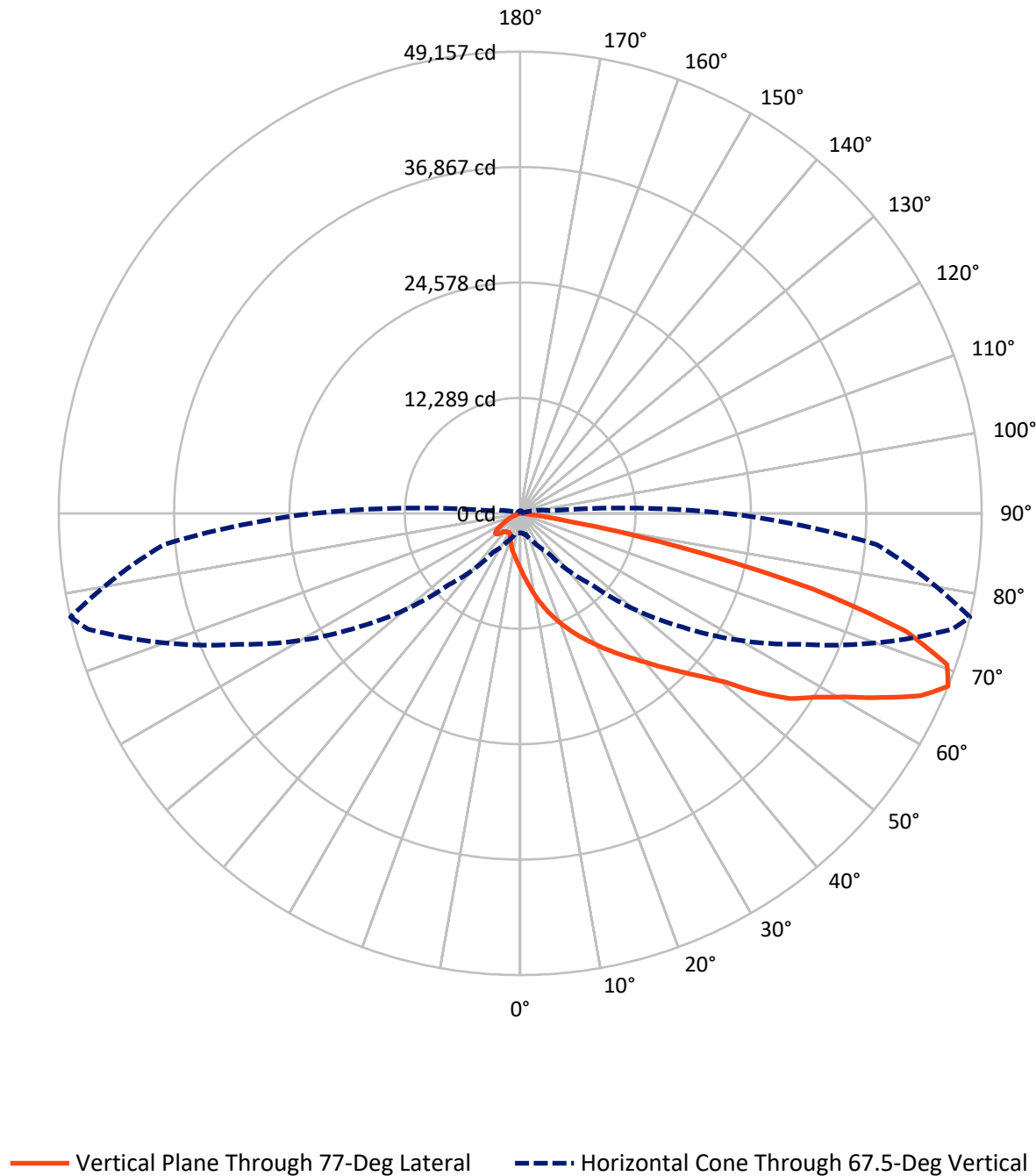
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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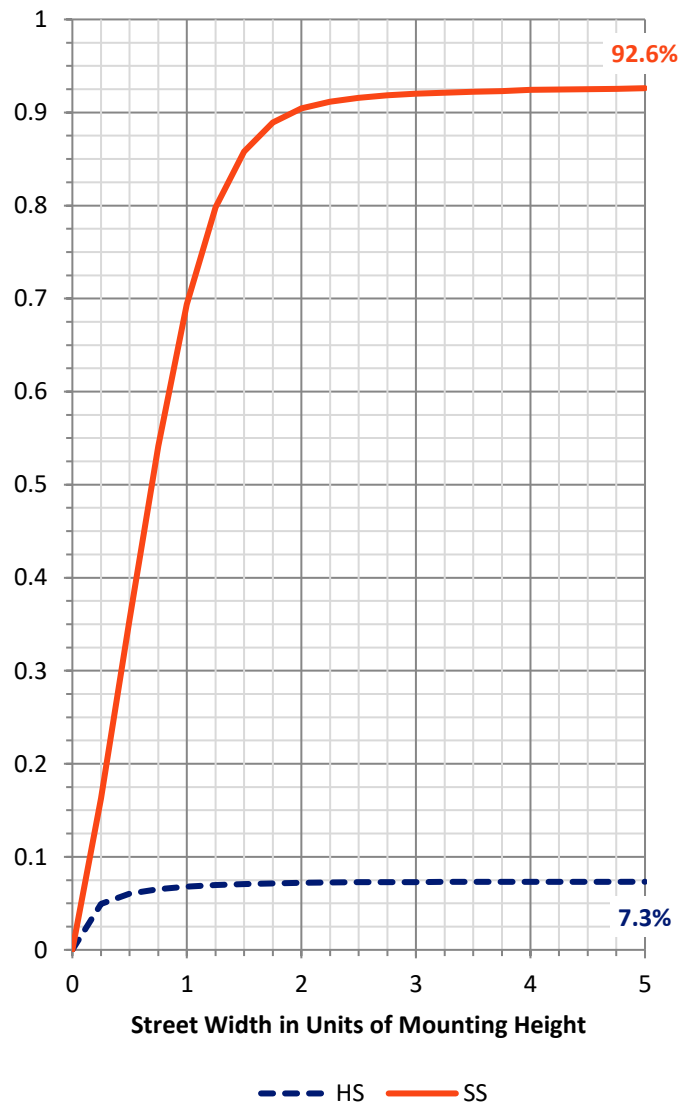
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3772.2   | 0.0    | 3772.2  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 47500.8  | 0.0    | 47500.8 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 51273.0  | 0.0    | 51273.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 603.5   | 1.2       |
| 10°-20°   | 2113.3  | 4.1       |
| 20°-30°   | 4078.1  | 8.0       |
| 30°-40°   | 7079.7  | 13.8      |
| 40°-50°   | 10279.4 | 20.0      |
| 50°-60°   | 11804.6 | 23.0      |
| 60°-70°   | 10248.6 | 20.0      |
| 70°-80°   | 4827.2  | 9.4       |
| 80°-90°   | 238.7   | 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°    | 51273.0 | 100.0     |
| 0°-180°   | 51273.0 | 100.0     |

**Coefficient of Utilization**



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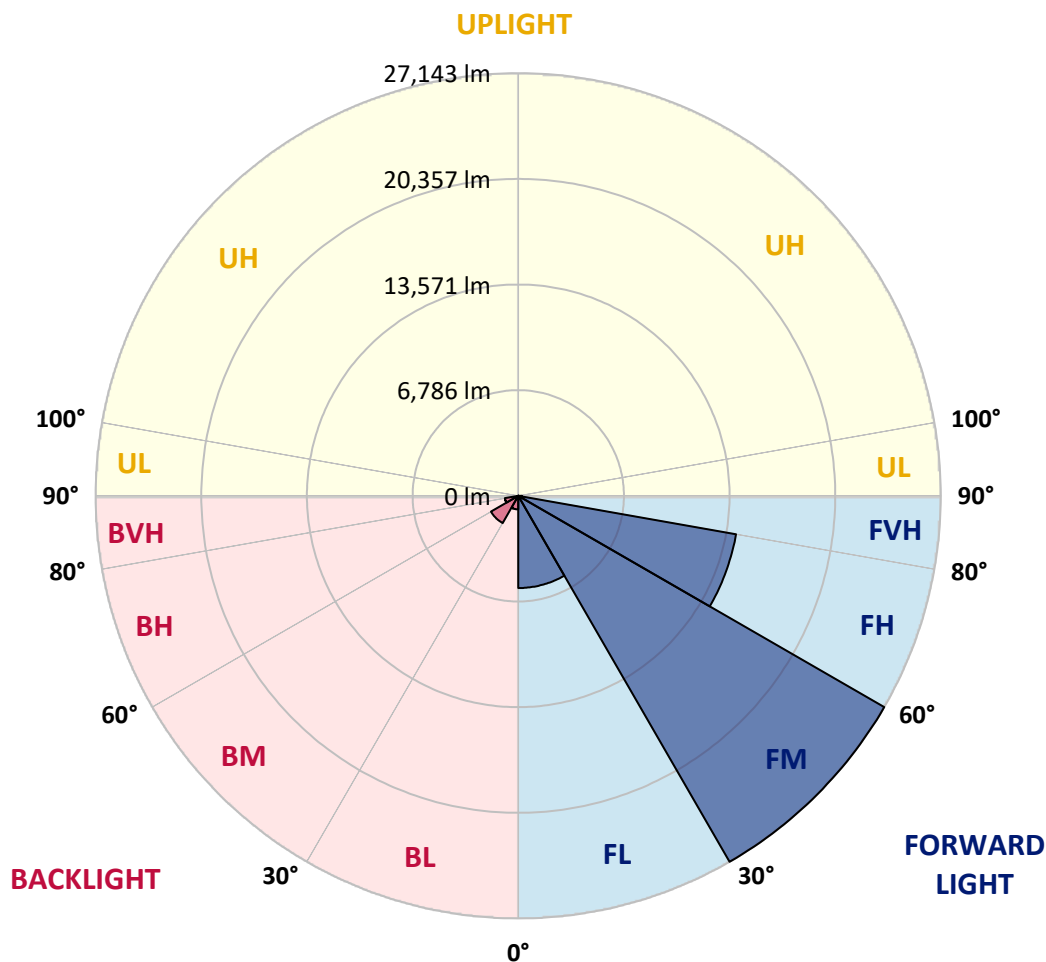
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5921.5  | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 27142.5 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 14202.5 | 27.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 234.3   | 0.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 873.3   | 1.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2021.2  | 3.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 873.3   | 1.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 4.4     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5912.5  | 5912.5  | 5912.5  | 5912.5  | 5912.5  | 5912.5  | 5912.5  | 5912.5  | 5912.5  | 5912.5  |
| 2.5°  | 8185.8  | 8236.8  | 8163.6  | 8023.5  | 7813.3  | 7676.4  | 7342.1  | 7026.9  | 6676.7  | 6565.2  |
| 5°    | 9978.4  | 10023.0 | 9940.2  | 9787.4  | 9507.2  | 9239.7  | 8800.3  | 8141.3  | 7456.7  | 7237.0  |
| 7.5°  | 11306.1 | 11331.6 | 11299.7 | 11159.6 | 10892.2 | 10589.7 | 10099.4 | 9319.3  | 8303.7  | 8061.7  |
| 10°   | 12261.3 | 12344.0 | 12334.5 | 12280.4 | 12102.1 | 11856.9 | 11334.7 | 10446.4 | 9252.5  | 8940.4  |
| 12.5° | 12894.9 | 12987.2 | 13041.3 | 13162.3 | 13152.8 | 12996.7 | 12538.3 | 11599.0 | 10198.1 | 9831.9  |
| 15°   | 13079.5 | 13178.2 | 13385.2 | 13665.4 | 13913.7 | 13993.3 | 13671.7 | 12729.3 | 11239.2 | 10771.2 |
| 17.5° | 12974.5 | 13127.3 | 13375.6 | 13818.2 | 14362.6 | 14722.4 | 14687.4 | 13821.4 | 12184.8 | 11649.9 |
| 20°   | 13206.9 | 13353.3 | 13547.6 | 13920.1 | 14553.7 | 15206.4 | 15467.5 | 14865.7 | 13124.1 | 12563.7 |
| 22.5° | 14493.2 | 14467.7 | 14486.8 | 14547.3 | 14926.2 | 15572.5 | 16110.6 | 15814.5 | 14053.8 | 13480.7 |
| 25°   | 16530.9 | 16416.3 | 16222.0 | 15894.1 | 15798.6 | 16110.6 | 16671.0 | 16655.1 | 15034.4 | 14420.0 |
| 27.5° | 18867.9 | 18848.8 | 18393.5 | 17603.9 | 17158.1 | 17037.1 | 17304.6 | 17473.3 | 16005.5 | 15349.7 |
| 30°   | 21106.2 | 21157.1 | 20542.6 | 19663.9 | 18845.6 | 18371.2 | 18129.2 | 18250.2 | 16992.6 | 16352.6 |
| 32.5° | 23054.7 | 23108.9 | 22440.2 | 21411.8 | 20399.3 | 19826.2 | 19316.8 | 19017.5 | 18068.7 | 17371.4 |
| 35°   | 24700.8 | 24754.9 | 23987.6 | 22851.0 | 21771.6 | 21252.6 | 20676.3 | 19858.1 | 19151.3 | 18501.7 |
| 37.5° | 26171.8 | 26155.9 | 25127.5 | 23981.2 | 22921.0 | 22510.3 | 22207.8 | 20892.9 | 20265.6 | 19638.4 |
| 40°   | 27041.0 | 27107.9 | 26229.1 | 24965.1 | 23936.7 | 23637.4 | 23618.3 | 22176.0 | 21551.9 | 20943.8 |
| 42.5° | 27295.7 | 27413.5 | 26776.7 | 25738.8 | 24805.9 | 24481.1 | 24981.0 | 23564.2 | 23048.4 | 22456.2 |
| 45°   | 26837.2 | 26951.8 | 26662.1 | 25942.5 | 25398.1 | 25188.0 | 26152.7 | 25003.3 | 24646.7 | 24060.8 |
| 47.5° | 25500.0 | 25643.3 | 25713.3 | 25560.5 | 25554.1 | 25767.4 | 27203.4 | 26518.8 | 26544.3 | 25945.7 |
| 50°   | 22911.5 | 23153.4 | 23796.6 | 24337.8 | 25175.2 | 26225.9 | 28225.4 | 28161.7 | 28683.9 | 28168.1 |
| 52.5° | 18205.6 | 18549.5 | 20765.5 | 22246.0 | 24127.7 | 26139.9 | 29349.3 | 30798.0 | 32437.7 | 31683.1 |
| 55°   | 14630.1 | 14630.1 | 16432.2 | 19202.2 | 22083.6 | 25573.2 | 29839.7 | 32511.0 | 34994.4 | 34816.1 |
| 57.5° | 11926.9 | 12070.2 | 13219.6 | 15668.0 | 19125.8 | 24223.2 | 30142.1 | 33587.1 | 37054.4 | 36923.9 |
| 60°   | 7361.2  | 7670.1  | 9841.5  | 12258.1 | 15760.4 | 21819.4 | 29951.1 | 34676.0 | 39553.8 | 39658.8 |
| 62.5° | 4145.5  | 4260.1  | 5228.0  | 8819.4  | 12254.9 | 18587.7 | 28489.7 | 35284.1 | 42750.4 | 43196.2 |
| 65°   | 2862.3  | 2919.7  | 3292.2  | 5489.1  | 8494.7  | 14798.8 | 25633.7 | 34905.3 | 45953.4 | 46854.5 |
| 67.5° | 2079.1  | 2107.8  | 2340.2  | 3352.7  | 5040.1  | 10729.8 | 21157.1 | 32994.9 | 47650.5 | 49156.5 |
| 70°   | 1598.3  | 1617.4  | 1786.2  | 2203.3  | 2977.0  | 6622.5  | 15365.6 | 29196.5 | 46421.5 | 48220.4 |
| 72.5° | 1299.0  | 1318.1  | 1448.7  | 1630.2  | 1974.0  | 3916.2  | 9313.0  | 23710.6 | 40996.1 | 42938.3 |
| 75°   | 1095.3  | 1120.7  | 1238.5  | 1356.3  | 1547.4  | 2515.3  | 4368.3  | 16511.8 | 30829.9 | 32103.4 |
| 77.5° | 608.1   | 560.4   | 1006.1  | 1123.9  | 1305.4  | 1592.0  | 2044.1  | 9717.3  | 17266.4 | 17619.8 |
| 80°   | 378.9   | 391.6   | 799.2   | 904.2   | 1002.9  | 802.3   | 936.1   | 3741.1  | 5985.8  | 5686.5  |
| 82.5° | 22.3    | 50.9    | 614.5   | 652.7   | 687.7   | 343.9   | 353.4   | 1270.4  | 1442.3  | 1324.5  |
| 85°   | 0.0     | 0.0     | 280.2   | 226.1   | 238.8   | 98.7    | 101.9   | 296.1   | 194.2   | 210.1   |
| 87.5° | 0.0     | 0.0     | 0.0     | 6.4     | 0.0     | 9.6     | 19.1    | 25.5    | 9.6     | 12.7    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5912.5  | 0°    | 5912.5  | 5912.5 | 5912.5 | 5912.5 | 5912.5 | 5912.5 | 5912.5 | 5912.5 | 5912.5 | 5912.5 |
| 6215.0  | 2.5°  | 5992.1  | 5769.3 | 5317.1 | 4874.6 | 4514.8 | 4180.5 | 3941.7 | 3715.6 | 3601.0 | 3594.6 |
| 6616.2  | 5°    | 6173.6  | 5705.6 | 4801.3 | 4002.2 | 3359.0 | 2843.2 | 2508.9 | 2270.1 | 2149.1 | 2107.8 |
| 7109.7  | 7.5°  | 6428.3  | 5724.7 | 4349.2 | 3238.0 | 2480.3 | 2037.7 | 1846.7 | 1770.3 | 1744.8 | 1716.1 |
| 7666.9  | 10°   | 6749.9  | 5769.3 | 3944.9 | 2607.6 | 1954.9 | 1732.0 | 1655.6 | 1623.8 | 1604.7 | 1585.6 |
| 8294.1  | 12.5° | 7109.7  | 5810.6 | 3543.7 | 2165.1 | 1719.3 | 1604.7 | 1550.6 | 1512.4 | 1486.9 | 1464.6 |
| 8937.3  | 15°   | 7459.9  | 5836.1 | 3126.6 | 1856.2 | 1598.3 | 1506.0 | 1448.7 | 1407.3 | 1372.3 | 1346.8 |
| 9567.7  | 17.5° | 7807.0  | 5871.1 | 2735.0 | 1671.6 | 1499.6 | 1407.3 | 1350.0 | 1299.0 | 1270.4 | 1241.7 |
| 10229.9 | 20°   | 8192.2  | 5864.8 | 2365.6 | 1541.0 | 1400.9 | 1308.6 | 1248.1 | 1200.3 | 1171.7 | 1139.8 |
| 10930.4 | 22.5° | 8548.8  | 5832.9 | 2040.9 | 1429.6 | 1299.0 | 1209.9 | 1143.0 | 1095.3 | 1066.6 | 1041.1 |
| 11646.8 | 25°   | 8959.5  | 5807.5 | 1770.3 | 1327.7 | 1203.5 | 1114.4 | 1041.1 | 996.6  | 964.7  | 942.4  |
| 12366.3 | 27.5° | 9354.3  | 5769.3 | 1572.9 | 1235.4 | 1111.2 | 1025.2 | 955.2  | 904.2  | 875.6  | 859.7  |
| 13108.2 | 30°   | 9742.8  | 5759.7 | 1499.6 | 1146.2 | 1028.4 | 942.4  | 872.4  | 824.6  | 802.3  | 796.0  |
| 13923.3 | 32.5° | 10210.8 | 5785.2 | 1531.5 | 1114.4 | 952.0  | 866.0  | 799.2  | 764.1  | 741.9  | 741.9  |
| 14830.7 | 35°   | 10710.7 | 5778.8 | 1579.2 | 1143.0 | 901.0  | 789.6  | 738.7  | 716.4  | 694.1  | 694.1  |
| 15836.8 | 37.5° | 11337.9 | 5788.4 | 1617.4 | 1190.8 | 881.9  | 725.9  | 697.3  | 668.6  | 655.9  | 655.9  |
| 16938.4 | 40°   | 12274.0 | 6103.6 | 1598.3 | 1232.2 | 875.6  | 681.4  | 624.0  | 614.5  | 604.9  | 604.9  |
| 18183.3 | 42.5° | 13420.2 | 6788.1 | 1623.8 | 1235.4 | 872.4  | 649.5  | 573.1  | 592.2  | 569.9  | 566.7  |
| 19587.4 | 45°   | 14674.7 | 7536.3 | 1786.2 | 1168.5 | 869.2  | 633.6  | 547.6  | 569.9  | 534.9  | 534.9  |
| 21214.4 | 47.5° | 15919.6 | 8278.2 | 1951.7 | 1073.0 | 859.7  | 630.4  | 525.3  | 512.6  | 503.1  | 506.2  |
| 23334.9 | 50°   | 17635.7 | 8883.1 | 2015.4 | 942.4  | 837.4  | 624.0  | 484.0  | 487.1  | 480.8  | 487.1  |
| 26324.6 | 52.5° | 19504.7 | 9010.5 | 1939.0 | 796.0  | 773.7  | 604.9  | 455.3  | 468.0  | 464.9  | 471.2  |
| 28429.2 | 55°   | 20670.0 | 8873.6 | 1601.5 | 662.3  | 675.0  | 528.5  | 426.6  | 452.1  | 452.1  | 452.1  |
| 30486.0 | 57.5° | 21873.5 | 8290.9 | 1136.7 | 538.1  | 560.4  | 433.0  | 401.2  | 436.2  | 433.0  | 429.8  |
| 32963.1 | 60°   | 22739.5 | 7348.5 | 748.2  | 442.6  | 445.7  | 356.6  | 372.5  | 410.7  | 407.5  | 391.6  |
| 35516.6 | 62.5° | 23385.9 | 6307.3 | 480.8  | 375.7  | 340.7  | 321.6  | 340.7  | 372.5  | 359.8  | 324.8  |
| 37681.6 | 65°   | 23312.6 | 4865.0 | 369.3  | 321.6  | 280.2  | 280.2  | 296.1  | 324.8  | 286.6  | 229.2  |
| 38095.5 | 67.5° | 21953.1 | 3292.2 | 305.7  | 270.6  | 235.6  | 232.4  | 245.2  | 270.6  | 245.2  | 194.2  |
| 35975.1 | 70°   | 19523.8 | 2152.3 | 245.2  | 210.1  | 187.9  | 171.9  | 197.4  | 232.4  | 207.0  | 156.0  |
| 30626.1 | 72.5° | 15846.3 | 1311.8 | 184.7  | 152.8  | 136.9  | 111.4  | 156.0  | 191.0  | 165.6  | 114.6  |
| 21297.2 | 75°   | 10252.2 | 668.6  | 127.4  | 98.7   | 73.2   | 66.9   | 114.6  | 143.3  | 114.6  | 70.0   |
| 9449.9  | 77.5° | 3922.6  | 280.2  | 70.0   | 44.6   | 38.2   | 31.8   | 63.7   | 86.0   | 47.8   | 15.9   |
| 1830.8  | 80°   | 754.6   | 117.8  | 35.0   | 22.3   | 19.1   | 12.7   | 9.6    | 6.4    | 0.0    | 0.0    |
| 324.8   | 82.5° | 130.5   | 38.2   | 12.7   | 6.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 63.7    | 85°   | 44.6    | 6.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22.3    | 87.5° | 15.9    | 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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| 180°   |
|--------|
| 5912.5 |
| 3588.3 |
| 2101.4 |
| 1709.8 |
| 1579.2 |
| 1458.2 |
| 1343.6 |
| 1238.5 |
| 1136.7 |
| 1038.0 |
| 939.3  |
| 859.7  |
| 792.8  |
| 741.9  |
| 694.1  |
| 655.9  |
| 604.9  |
| 563.6  |
| 534.9  |
| 506.2  |
| 487.1  |
| 471.2  |
| 452.1  |
| 429.8  |
| 391.6  |
| 318.4  |
| 222.9  |
| 187.9  |
| 149.6  |
| 108.3  |
| 60.5   |
| 12.7   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |