

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: P957212

Luminaire Tested: **GLAN-SB9C-850-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957212  
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-SB9C-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 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: 55244 lumens  
Efficiency: N/A  
Efficacy: 122.8 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): 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



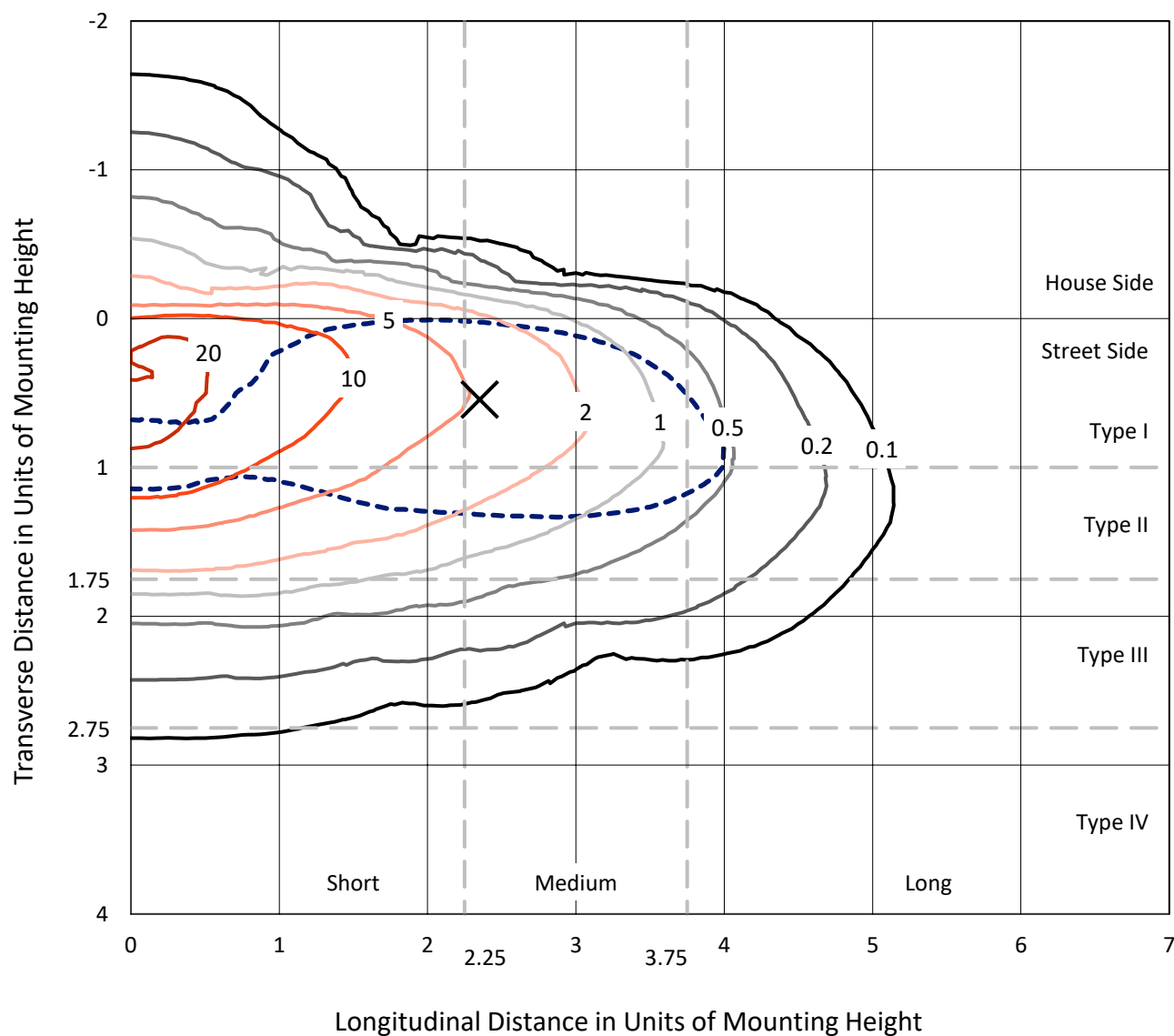
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

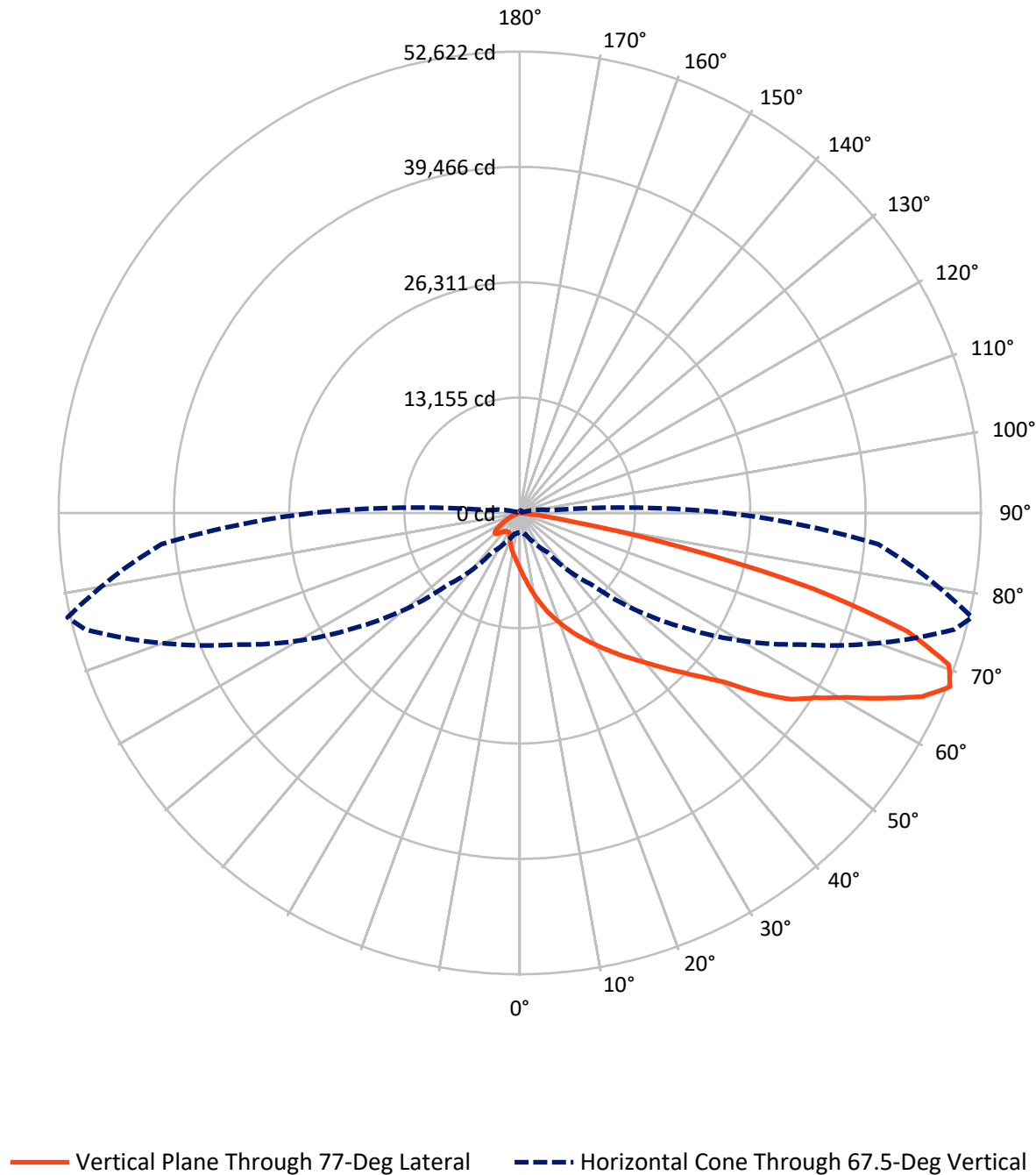
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 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    | 4064.3   | 0.0    | 4064.3  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 51179.7  | 0.0    | 51179.7 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 55244.0  | 0.0    | 55244.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 650.2   | 1.2       |
| 10°-20°   | 2276.9  | 4.1       |
| 20°-30°   | 4393.9  | 8.0       |
| 30°-40°   | 7628.0  | 13.8      |
| 40°-50°   | 11075.5 | 20.0      |
| 50°-60°   | 12718.8 | 23.0      |
| 60°-70°   | 11042.3 | 20.0      |
| 70°-80°   | 5201.0  | 9.4       |
| 80°-90°   | 257.2   | 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°    | 55244.0 | 100.0     |
| 0°-180°   | 55244.0 | 100.0     |

**Coefficient of Utilization**



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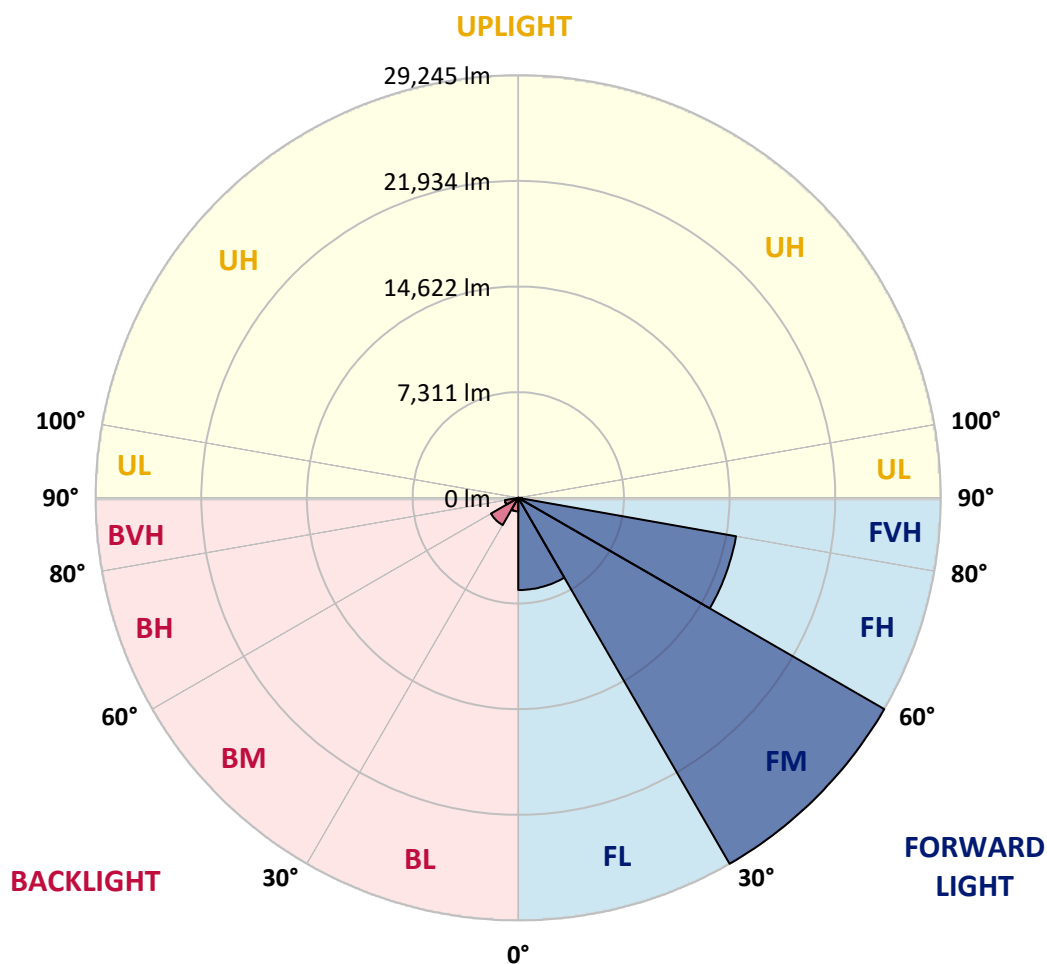
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6380.1  | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 29244.7 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 15302.4 | 27.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 252.5   | 0.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 941.0   | 1.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2177.7  | 3.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 940.9   | 1.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 4.7     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6370.4  | 6370.4  | 6370.4  | 6370.4  | 6370.4  | 6370.4  | 6370.4  | 6370.4  | 6370.4  | 6370.4  |
| 2.5°  | 8819.8  | 8874.7  | 8795.8  | 8644.9  | 8418.5  | 8270.9  | 7910.7  | 7571.1  | 7193.8  | 7073.7  |
| 5°    | 10751.2 | 10799.2 | 10710.0 | 10545.4 | 10243.5 | 9955.3  | 9481.9  | 8771.8  | 8034.2  | 7797.5  |
| 7.5°  | 12181.7 | 12209.2 | 12174.9 | 12023.9 | 11735.8 | 11409.9 | 10881.6 | 10041.1 | 8946.8  | 8686.0  |
| 10°   | 13210.9 | 13300.1 | 13289.8 | 13231.5 | 13039.3 | 12775.2 | 12212.6 | 11255.5 | 9969.0  | 9632.9  |
| 12.5° | 13893.5 | 13993.0 | 14051.3 | 14181.7 | 14171.4 | 14003.3 | 13509.3 | 12497.3 | 10987.9 | 10593.4 |
| 15°   | 14092.5 | 14198.9 | 14421.8 | 14723.7 | 14991.3 | 15077.1 | 14730.6 | 13715.2 | 12109.7 | 11605.4 |
| 17.5° | 13979.3 | 14144.0 | 14411.5 | 14888.4 | 15475.0 | 15862.6 | 15824.9 | 14891.8 | 13128.5 | 12552.2 |
| 20°   | 14229.7 | 14387.5 | 14596.8 | 14998.2 | 15680.8 | 16384.1 | 16665.4 | 16017.0 | 14140.5 | 13536.8 |
| 22.5° | 15615.7 | 15588.2 | 15608.8 | 15674.0 | 16082.2 | 16778.6 | 17358.3 | 17039.3 | 15142.2 | 14524.8 |
| 25°   | 17811.2 | 17687.7 | 17478.4 | 17125.1 | 17022.2 | 17358.3 | 17962.1 | 17945.0 | 16198.8 | 15536.8 |
| 27.5° | 20329.2 | 20308.6 | 19818.0 | 18967.3 | 18487.0 | 18356.6 | 18644.8 | 18826.6 | 17245.1 | 16538.5 |
| 30°   | 22740.8 | 22795.7 | 22133.6 | 21186.8 | 20305.2 | 19794.0 | 19533.3 | 19663.6 | 18308.6 | 17619.1 |
| 32.5° | 24840.3 | 24898.6 | 24178.2 | 23070.1 | 21979.2 | 21361.7 | 20812.9 | 20490.4 | 19468.1 | 18716.8 |
| 35°   | 26613.8 | 26672.2 | 25845.4 | 24620.7 | 23457.8 | 22898.6 | 22277.7 | 21396.1 | 20634.5 | 19934.7 |
| 37.5° | 28198.7 | 28181.6 | 27073.5 | 25838.6 | 24696.2 | 24253.7 | 23927.8 | 22511.0 | 21835.2 | 21159.3 |
| 40°   | 29135.3 | 29207.3 | 28260.5 | 26898.6 | 25790.5 | 25468.1 | 25447.5 | 23893.5 | 23221.1 | 22565.9 |
| 42.5° | 29409.7 | 29536.6 | 28850.5 | 27732.2 | 26727.1 | 26377.1 | 26915.7 | 25389.2 | 24833.4 | 24195.3 |
| 45°   | 28915.7 | 29039.2 | 28727.0 | 27951.7 | 27365.1 | 27138.7 | 28178.2 | 26939.7 | 26555.5 | 25924.3 |
| 47.5° | 27474.9 | 27629.3 | 27704.7 | 27540.1 | 27533.2 | 27763.1 | 29310.2 | 28572.7 | 28600.1 | 27955.2 |
| 50°   | 24685.9 | 24946.6 | 25639.6 | 26222.8 | 27125.0 | 28257.1 | 30411.4 | 30342.8 | 30905.4 | 30349.7 |
| 52.5° | 19615.6 | 19986.1 | 22373.7 | 23968.9 | 25996.4 | 28164.4 | 31622.4 | 33183.3 | 34950.0 | 34136.9 |
| 55°   | 15763.2 | 15763.2 | 17704.8 | 20689.4 | 23794.0 | 27553.8 | 32150.7 | 35028.9 | 37704.7 | 37512.6 |
| 57.5° | 12850.7 | 13005.0 | 14243.5 | 16881.5 | 20607.0 | 26099.3 | 32476.6 | 36188.4 | 39924.2 | 39783.6 |
| 60°   | 7931.3  | 8264.1  | 10603.7 | 13207.4 | 16981.0 | 23509.2 | 32270.7 | 37361.6 | 42617.1 | 42730.4 |
| 62.5° | 4466.5  | 4590.0  | 5632.9  | 9502.5  | 13204.0 | 20027.3 | 30696.1 | 38016.8 | 46061.4 | 46541.6 |
| 65°   | 3084.0  | 3145.8  | 3547.1  | 5914.2  | 9152.6  | 15945.0 | 27619.0 | 37608.6 | 49512.5 | 50483.3 |
| 67.5° | 2240.1  | 2271.0  | 2521.4  | 3612.3  | 5430.5  | 11560.8 | 22795.7 | 35550.3 | 51340.9 | 52963.5 |
| 70°   | 1722.1  | 1742.7  | 1924.5  | 2373.9  | 3207.5  | 7135.4  | 16555.6 | 31457.7 | 50016.7 | 51955.0 |
| 72.5° | 1399.6  | 1420.2  | 1560.9  | 1756.4  | 2126.9  | 4219.5  | 10034.2 | 25547.0 | 44171.2 | 46263.8 |
| 75°   | 1180.1  | 1207.5  | 1334.5  | 1461.4  | 1667.2  | 2710.1  | 4706.7  | 17790.6 | 33217.6 | 34589.8 |
| 77.5° | 655.2   | 603.8   | 1084.0  | 1211.0  | 1406.5  | 1715.3  | 2202.4  | 10469.9 | 18603.6 | 18984.4 |
| 80°   | 408.2   | 422.0   | 861.1   | 974.3   | 1080.6  | 864.5   | 1008.6  | 4030.8  | 6449.3  | 6126.9  |
| 82.5° | 24.0    | 54.9    | 662.1   | 703.3   | 741.0   | 370.5   | 380.8   | 1368.8  | 1554.0  | 1427.1  |
| 85°   | 0.0     | 0.0     | 301.9   | 243.6   | 257.3   | 106.3   | 109.8   | 319.0   | 209.3   | 226.4   |
| 87.5° | 0.0     | 0.0     | 0.0     | 6.9     | 0.0     | 10.3    | 20.6    | 27.4    | 10.3    | 13.7    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6370.4  | 0°    | 6370.4  | 6370.4 | 6370.4 | 6370.4 | 6370.4 | 6370.4 | 6370.4 | 6370.4 | 6370.4 | 6370.4 |
| 6696.3  | 2.5°  | 6456.2  | 6216.1 | 5728.9 | 5252.1 | 4864.5 | 4504.3 | 4247.0 | 4003.4 | 3879.9 | 3873.0 |
| 7128.6  | 5°    | 6651.7  | 6147.5 | 5173.2 | 4312.1 | 3619.2 | 3063.4 | 2703.2 | 2445.9 | 2315.6 | 2271.0 |
| 7660.3  | 7.5°  | 6926.2  | 6168.0 | 4686.1 | 3488.8 | 2672.4 | 2195.5 | 1989.7 | 1907.4 | 1879.9 | 1849.0 |
| 8260.7  | 10°   | 7272.7  | 6216.1 | 4250.4 | 2809.6 | 2106.3 | 1866.2 | 1783.9 | 1749.6 | 1729.0 | 1708.4 |
| 8936.5  | 12.5° | 7660.3  | 6260.7 | 3818.2 | 2332.7 | 1852.5 | 1729.0 | 1670.7 | 1629.5 | 1602.0 | 1578.0 |
| 9629.4  | 15°   | 8037.7  | 6288.1 | 3368.8 | 2000.0 | 1722.1 | 1622.6 | 1560.9 | 1516.3 | 1478.5 | 1451.1 |
| 10308.7 | 17.5° | 8411.6  | 6325.8 | 2946.8 | 1801.0 | 1615.8 | 1516.3 | 1454.5 | 1399.6 | 1368.8 | 1337.9 |
| 11022.2 | 20°   | 8826.7  | 6319.0 | 2548.9 | 1660.4 | 1509.4 | 1409.9 | 1344.8 | 1293.3 | 1262.4 | 1228.1 |
| 11776.9 | 22.5° | 9210.9  | 6284.7 | 2199.0 | 1540.3 | 1399.6 | 1303.6 | 1231.6 | 1180.1 | 1149.2 | 1121.8 |
| 12548.8 | 25°   | 9653.4  | 6257.2 | 1907.4 | 1430.5 | 1296.7 | 1200.7 | 1121.8 | 1073.7 | 1039.4 | 1015.4 |
| 13324.1 | 27.5° | 10078.8 | 6216.1 | 1694.7 | 1331.0 | 1197.2 | 1104.6 | 1029.2 | 974.3  | 943.4  | 926.2  |
| 14123.4 | 30°   | 10497.3 | 6205.8 | 1615.8 | 1235.0 | 1108.1 | 1015.4 | 940.0  | 888.5  | 864.5  | 857.6  |
| 15001.6 | 32.5° | 11001.6 | 6233.2 | 1650.1 | 1200.7 | 1025.7 | 933.1  | 861.1  | 823.3  | 799.3  | 799.3  |
| 15979.3 | 35°   | 11540.2 | 6226.4 | 1701.5 | 1231.6 | 970.8  | 850.8  | 795.9  | 771.9  | 747.8  | 747.8  |
| 17063.3 | 37.5° | 12216.0 | 6236.7 | 1742.7 | 1283.0 | 950.2  | 782.2  | 751.3  | 720.4  | 706.7  | 706.7  |
| 18250.3 | 40°   | 13224.6 | 6576.3 | 1722.1 | 1327.6 | 943.4  | 734.1  | 672.4  | 662.1  | 651.8  | 651.8  |
| 19591.6 | 42.5° | 14459.6 | 7313.8 | 1749.6 | 1331.0 | 940.0  | 699.8  | 617.5  | 638.1  | 614.1  | 610.6  |
| 21104.5 | 45°   | 15811.2 | 8120.0 | 1924.5 | 1259.0 | 936.5  | 682.7  | 590.0  | 614.1  | 576.3  | 576.3  |
| 22857.4 | 47.5° | 17152.5 | 8919.3 | 2102.9 | 1156.1 | 926.2  | 679.2  | 566.0  | 552.3  | 542.0  | 545.5  |
| 25142.2 | 50°   | 19001.6 | 9571.1 | 2171.5 | 1015.4 | 902.2  | 672.4  | 521.4  | 524.9  | 518.0  | 524.9  |
| 28363.4 | 52.5° | 21015.3 | 9708.3 | 2089.2 | 857.6  | 833.6  | 651.8  | 490.6  | 504.3  | 500.9  | 507.7  |
| 30631.0 | 55°   | 22270.8 | 9560.8 | 1725.5 | 713.5  | 727.3  | 569.5  | 459.7  | 487.1  | 487.1  | 487.1  |
| 32847.1 | 57.5° | 23567.6 | 8933.0 | 1224.7 | 579.8  | 603.8  | 466.5  | 432.2  | 470.0  | 466.5  | 463.1  |
| 35516.0 | 60°   | 24500.7 | 7917.6 | 806.2  | 476.8  | 480.3  | 384.2  | 401.4  | 442.5  | 439.1  | 422.0  |
| 38267.3 | 62.5° | 25197.0 | 6795.8 | 518.0  | 404.8  | 367.1  | 346.5  | 367.1  | 401.4  | 387.6  | 349.9  |
| 40600.0 | 65°   | 25118.1 | 5241.8 | 397.9  | 346.5  | 301.9  | 301.9  | 319.0  | 349.9  | 308.7  | 247.0  |
| 41046.0 | 67.5° | 23653.3 | 3547.1 | 329.3  | 291.6  | 253.9  | 250.4  | 264.1  | 291.6  | 264.1  | 209.3  |
| 38761.3 | 70°   | 21035.8 | 2319.0 | 264.1  | 226.4  | 202.4  | 185.2  | 212.7  | 250.4  | 223.0  | 168.1  |
| 32998.0 | 72.5° | 17073.6 | 1413.4 | 199.0  | 164.7  | 147.5  | 120.1  | 168.1  | 205.8  | 178.4  | 123.5  |
| 22946.6 | 75°   | 11046.2 | 720.4  | 137.2  | 106.3  | 78.9   | 72.0   | 123.5  | 154.4  | 123.5  | 75.5   |
| 10181.7 | 77.5° | 4226.4  | 301.9  | 75.5   | 48.0   | 41.2   | 34.3   | 68.6   | 92.6   | 51.5   | 17.2   |
| 1972.5  | 80°   | 813.0   | 126.9  | 37.7   | 24.0   | 20.6   | 13.7   | 10.3   | 6.9    | 0.0    | 0.0    |
| 349.9   | 82.5° | 140.7   | 41.2   | 13.7   | 6.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 68.6    | 85°   | 48.0    | 6.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 24.0    | 87.5° | 17.2    | 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°   |
|--------|
| 6370.4 |
| 3866.2 |
| 2264.1 |
| 1842.2 |
| 1701.5 |
| 1571.2 |
| 1447.7 |
| 1334.5 |
| 1224.7 |
| 1118.3 |
| 1012.0 |
| 926.2  |
| 854.2  |
| 799.3  |
| 747.8  |
| 706.7  |
| 651.8  |
| 607.2  |
| 576.3  |
| 545.5  |
| 524.9  |
| 507.7  |
| 487.1  |
| 463.1  |
| 422.0  |
| 343.1  |
| 240.1  |
| 202.4  |
| 161.2  |
| 116.6  |
| 65.2   |
| 13.7   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |