

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: P942031

Luminaire Tested: **GLAN-SB5D-835-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942031  
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-SB5D-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 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: 33282 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

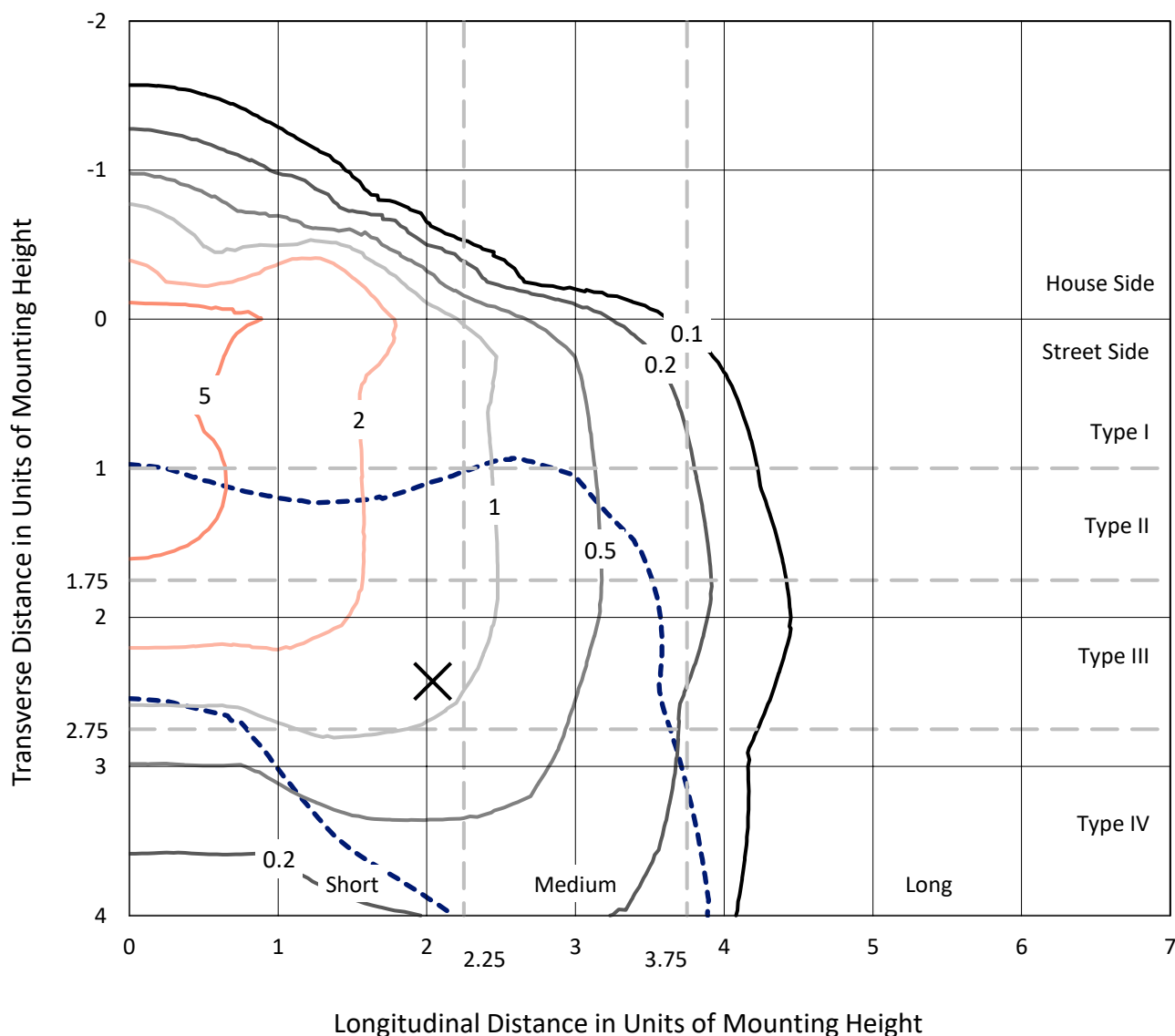
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

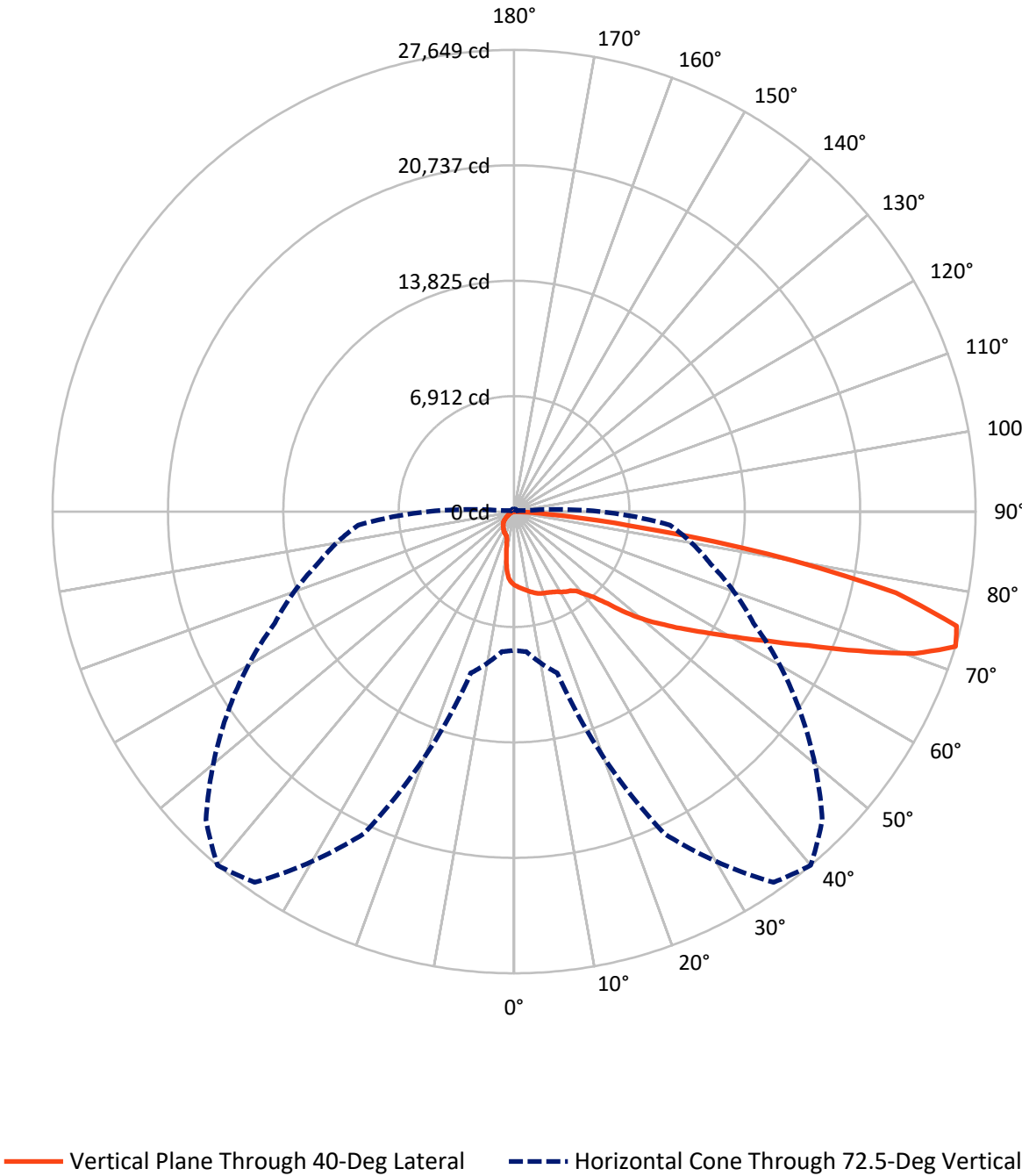
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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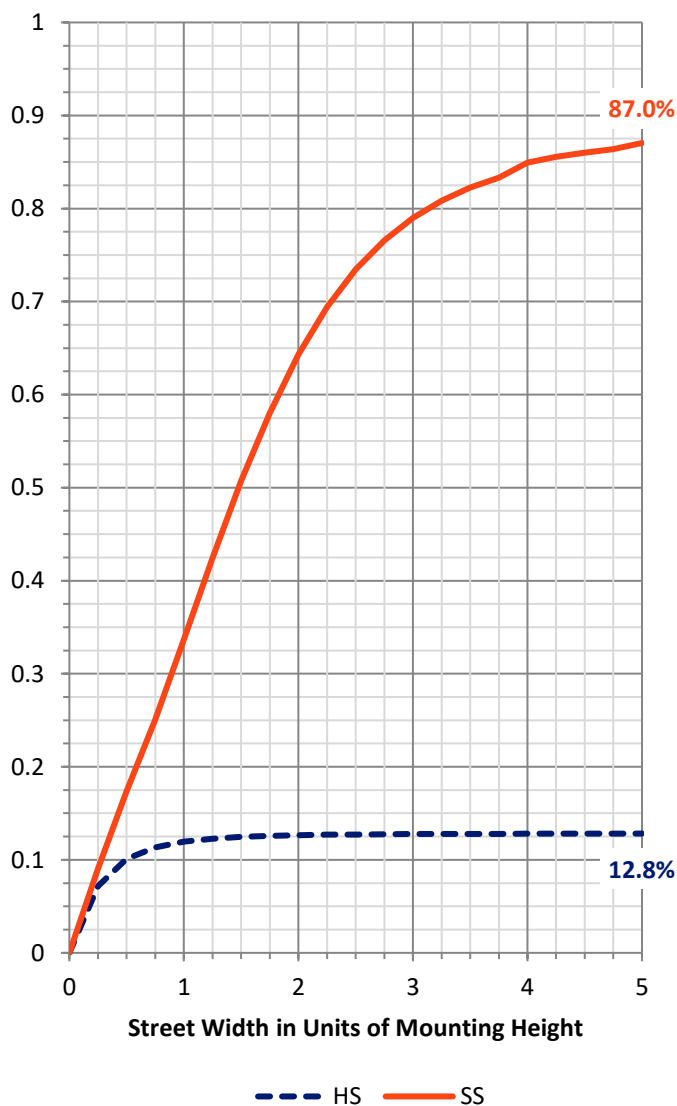
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4298.0   | 0.0    | 4298.0  |
|                    | % Fixture | 12.9     | 0.0    | 12.9    |
| <b>Street Side</b> | Lumens    | 28984.0  | 0.0    | 28984.0 |
|                    | % Fixture | 87.1     | 0.0    | 87.1    |
| <b>Total</b>       | Lumens    | 33282.0  | 0.0    | 33282.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 402.5   | 1.2       |
| 10°-20°   | 1092.9  | 3.3       |
| 20°-30°   | 1768.5  | 5.3       |
| 30°-40°   | 2610.9  | 7.8       |
| 40°-50°   | 4394.2  | 13.2      |
| 50°-60°   | 6823.0  | 20.5      |
| 60°-70°   | 8537.5  | 25.7      |
| 70°-80°   | 6989.7  | 21.0      |
| 80°-90°   | 662.8   | 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°    | 33282.0 | 100.0     |
| 0°-180°   | 33282.0 | 100.0     |

**Coefficient of Utilization**



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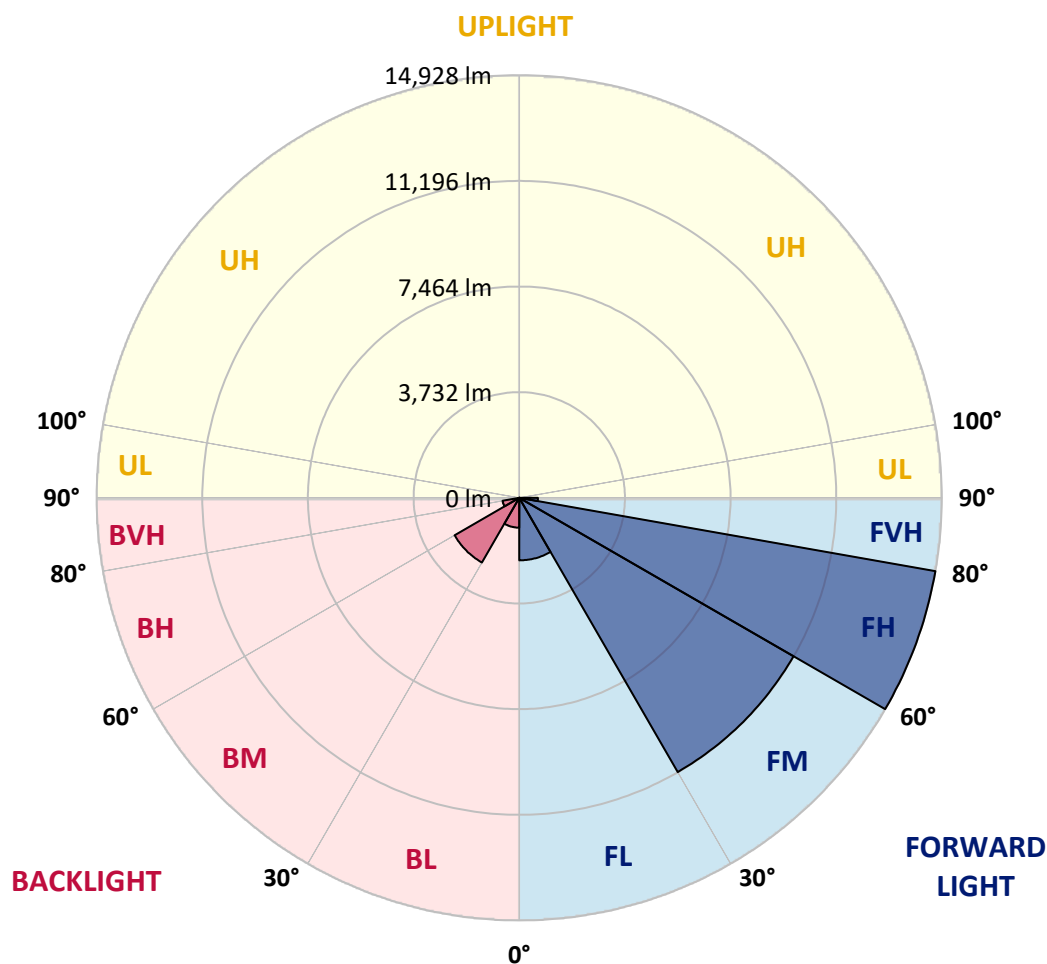
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2208.9  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 11188.9 | 33.6      |                         |      |         |
| FH   | (60°-80°)   | 14928.5 | 44.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 657.7   | 2.0       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1054.9  | 3.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2639.3  | 7.9       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 598.8   | 1.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 5.1     | 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°    | 4406.8  | 4406.8  | 4406.8  | 4406.8  | 4406.8  | 4406.8  | 4406.8  | 4406.8  | 4406.8  | 4406.8  |
| 2.5°  | 4539.7  | 4557.2  | 4547.2  | 4527.1  | 4522.1  | 4512.1  | 4499.6  | 4494.5  | 4477.0  | 4462.0  |
| 5°    | 4667.5  | 4685.1  | 4672.5  | 4644.9  | 4632.4  | 4619.9  | 4602.3  | 4587.3  | 4552.2  | 4519.6  |
| 7.5°  | 4807.9  | 4822.9  | 4807.9  | 4767.8  | 4747.7  | 4732.7  | 4707.6  | 4685.1  | 4644.9  | 4597.3  |
| 10°   | 4963.3  | 4975.8  | 4953.3  | 4900.6  | 4868.0  | 4845.5  | 4822.9  | 4797.9  | 4760.3  | 4707.6  |
| 12.5° | 5108.7  | 5123.7  | 5088.6  | 5026.0  | 4988.4  | 4965.8  | 4940.7  | 4920.7  | 4883.1  | 4832.9  |
| 15°   | 5241.5  | 5264.1  | 5203.9  | 5136.3  | 5093.6  | 5076.1  | 5051.0  | 5038.5  | 5013.4  | 4978.3  |
| 17.5° | 5341.8  | 5356.9  | 5294.2  | 5214.0  | 5166.3  | 5153.8  | 5136.3  | 5143.8  | 5138.8  | 5121.2  |
| 20°   | 5427.0  | 5437.1  | 5354.3  | 5256.6  | 5203.9  | 5206.4  | 5201.4  | 5226.5  | 5236.5  | 5236.5  |
| 22.5° | 5532.3  | 5534.8  | 5429.5  | 5306.7  | 5244.0  | 5261.6  | 5269.1  | 5296.7  | 5316.7  | 5336.8  |
| 25°   | 5670.2  | 5665.2  | 5539.8  | 5371.9  | 5316.7  | 5341.8  | 5359.4  | 5369.4  | 5391.9  | 5424.5  |
| 27.5° | 5875.7  | 5860.7  | 5700.3  | 5477.2  | 5412.0  | 5434.6  | 5467.1  | 5462.1  | 5452.1  | 5477.2  |
| 30°   | 6136.4  | 6116.4  | 5903.3  | 5625.1  | 5564.9  | 5585.0  | 5595.0  | 5549.9  | 5477.2  | 5499.7  |
| 32.5° | 6550.0  | 6515.0  | 6219.2  | 5790.5  | 5697.8  | 5720.3  | 5707.8  | 5615.0  | 5507.3  | 5529.8  |
| 35°   | 7269.5  | 7184.2  | 6765.6  | 6136.4  | 5848.2  | 5823.1  | 5793.0  | 5702.8  | 5569.9  | 5547.4  |
| 37.5° | 8798.6  | 8648.2  | 7933.8  | 6810.7  | 6189.1  | 6026.1  | 5933.4  | 5843.2  | 5637.6  | 5547.4  |
| 40°   | 10523.2 | 10370.3 | 9545.6  | 7938.8  | 6755.6  | 6479.9  | 6259.3  | 6008.6  | 5707.8  | 5579.9  |
| 42.5° | 12323.0 | 12155.1 | 11307.8 | 9337.5  | 7565.3  | 6998.8  | 6587.6  | 6141.5  | 5823.1  | 5680.2  |
| 45°   | 14333.4 | 14122.8 | 13014.9 | 10796.4 | 8740.9  | 7861.1  | 7116.6  | 6414.7  | 6023.6  | 5858.2  |
| 47.5° | 16454.1 | 16180.9 | 14716.9 | 12212.7 | 10006.8 | 9054.3  | 8084.2  | 6903.5  | 6319.4  | 6123.9  |
| 50°   | 18334.1 | 18063.4 | 16474.1 | 13694.2 | 11190.0 | 10189.8 | 9187.1  | 7580.3  | 6763.1  | 6499.9  |
| 52.5° | 19685.2 | 19479.7 | 18073.4 | 15223.3 | 12420.8 | 11255.2 | 10187.3 | 8367.4  | 7324.6  | 6981.2  |
| 55°   | 20590.2 | 20402.2 | 19206.5 | 16672.2 | 13852.1 | 12428.3 | 11172.4 | 9222.2  | 8001.4  | 7557.7  |
| 57.5° | 21139.1 | 21031.3 | 20026.2 | 17965.6 | 15270.9 | 13711.7 | 12300.5 | 10162.2 | 8798.6  | 8237.1  |
| 60°   | 21334.7 | 21246.9 | 20535.0 | 19198.9 | 16985.5 | 15253.4 | 13626.5 | 11222.6 | 9766.2  | 9009.1  |
| 62.5° | 20813.3 | 20830.8 | 20901.0 | 20660.4 | 18792.8 | 17058.2 | 15215.8 | 12496.0 | 10839.0 | 9884.0  |
| 65°   | 18359.2 | 18504.6 | 19838.2 | 22279.7 | 21186.8 | 19319.3 | 17238.7 | 14050.1 | 12067.3 | 10879.1 |
| 67.5° | 15200.7 | 15411.3 | 17070.7 | 23227.2 | 23738.6 | 22254.6 | 20056.2 | 16030.4 | 13531.3 | 11891.9 |
| 70°   | 11636.2 | 11861.8 | 13872.2 | 23029.2 | 26127.5 | 25463.2 | 23540.6 | 18549.7 | 15047.8 | 12593.7 |
| 72.5° | 8304.7  | 8420.1  | 10004.3 | 21267.0 | 27107.6 | 27649.1 | 26107.4 | 20936.1 | 15822.4 | 12205.2 |
| 75°   | 5835.6  | 5815.6  | 6865.9  | 17125.9 | 25581.0 | 27383.4 | 25207.5 | 19645.1 | 14318.4 | 9696.0  |
| 77.5° | 2541.8  | 2546.8  | 3429.2  | 10400.4 | 20417.2 | 23387.7 | 20953.6 | 12305.5 | 9981.7  | 5138.8  |
| 80°   | 659.3   | 679.3   | 1258.4  | 4141.1  | 12292.9 | 15436.4 | 12779.2 | 5409.5  | 4612.4  | 1253.4  |
| 82.5° | 233.1   | 248.2   | 579.1   | 1301.0  | 4534.6  | 7079.0  | 5690.2  | 1729.6  | 1203.2  | 358.5   |
| 85°   | 67.7    | 80.2    | 310.8   | 398.6   | 937.5   | 2000.4  | 1381.2  | 335.9   | 295.8   | 185.5   |
| 87.5° | 0.0     | 10.0    | 62.7    | 55.1    | 55.1    | 37.6    | 70.2    | 37.6    | 47.6    | 22.6    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4406.8  | 0°    | 4406.8  | 4406.8  | 4406.8 | 4406.8 | 4406.8 | 4406.8 | 4406.8 | 4406.8 | 4406.8 | 4406.8 |
| 4444.4  | 2.5°  | 4429.4  | 4411.8  | 4374.2 | 4334.1 | 4296.5 | 4261.4 | 4251.4 | 4213.8 | 4196.2 | 4198.7 |
| 4479.5  | 5°    | 4451.9  | 4419.3  | 4346.6 | 4258.9 | 4168.7 | 4065.9 | 3980.7 | 3860.3 | 3757.6 | 3745.0 |
| 4547.2  | 7.5°  | 4512.1  | 4459.4  | 4341.6 | 4171.2 | 3945.6 | 3662.3 | 3399.1 | 3138.4 | 2990.5 | 2910.3 |
| 4647.5  | 10°   | 4604.8  | 4534.6  | 4354.2 | 4028.3 | 3549.5 | 3043.2 | 2644.6 | 2316.2 | 2148.3 | 2070.5 |
| 4770.3  | 12.5° | 4715.1  | 4637.4  | 4374.2 | 3785.1 | 3038.1 | 2373.9 | 1942.7 | 1742.2 | 1707.1 | 1702.1 |
| 4920.7  | 15°   | 4870.5  | 4785.3  | 4396.8 | 3456.8 | 2484.2 | 1807.3 | 1609.3 | 1611.8 | 1639.4 | 1654.4 |
| 5083.6  | 17.5° | 5043.5  | 4958.3  | 4364.2 | 3055.7 | 1937.7 | 1544.1 | 1539.1 | 1561.7 | 1601.8 | 1616.8 |
| 5234.0  | 20°   | 5219.0  | 5138.8  | 4248.9 | 2584.4 | 1566.7 | 1471.4 | 1491.5 | 1516.6 | 1556.7 | 1576.7 |
| 5381.9  | 22.5° | 5399.5  | 5329.3  | 4065.9 | 2083.1 | 1413.8 | 1418.8 | 1443.9 | 1468.9 | 1514.1 | 1536.6 |
| 5527.3  | 25°   | 5592.5  | 5532.3  | 3822.7 | 1669.5 | 1348.6 | 1363.7 | 1396.2 | 1426.3 | 1473.9 | 1501.5 |
| 5650.1  | 27.5° | 5788.0  | 5742.9  | 3547.0 | 1393.7 | 1288.5 | 1306.0 | 1343.6 | 1383.7 | 1431.3 | 1463.9 |
| 5757.9  | 30°   | 6001.1  | 5976.0  | 3326.4 | 1291.0 | 1230.8 | 1245.8 | 1288.5 | 1333.6 | 1386.2 | 1426.3 |
| 5865.7  | 32.5° | 6219.2  | 6214.1  | 3218.6 | 1366.2 | 1178.2 | 1188.2 | 1225.8 | 1270.9 | 1336.1 | 1386.2 |
| 5956.0  | 35°   | 6434.7  | 6444.8  | 3156.0 | 1579.2 | 1160.6 | 1133.0 | 1158.1 | 1198.2 | 1275.9 | 1338.6 |
| 6058.7  | 37.5° | 6710.5  | 6735.5  | 3153.4 | 1809.8 | 1203.2 | 1077.9 | 1095.4 | 1123.0 | 1190.7 | 1263.4 |
| 6219.2  | 40°   | 7121.6  | 7254.4  | 3313.9 | 2007.9 | 1278.4 | 1027.8 | 1032.8 | 1037.8 | 1072.9 | 1133.0 |
| 6432.2  | 42.5° | 7668.0  | 8056.6  | 3892.9 | 2143.2 | 1308.5 | 982.6  | 965.1  | 937.5  | 932.5  | 965.1  |
| 6723.0  | 45°   | 8347.4  | 9026.7  | 4910.7 | 2218.4 | 1278.4 | 932.5  | 884.9  | 812.2  | 784.6  | 807.2  |
| 7116.6  | 47.5° | 9147.0  | 10089.5 | 6116.4 | 2236.0 | 1228.3 | 869.8  | 784.6  | 689.3  | 666.8  | 674.3  |
| 7645.5  | 50°   | 9926.6  | 10886.7 | 7176.7 | 2090.6 | 1145.6 | 789.6  | 674.3  | 594.1  | 579.1  | 581.6  |
| 8269.7  | 52.5° | 10615.9 | 11159.9 | 7477.5 | 1747.2 | 1035.3 | 691.9  | 579.1  | 523.9  | 513.9  | 513.9  |
| 8959.0  | 55°   | 11072.2 | 10864.1 | 6667.9 | 1336.1 | 897.4  | 591.6  | 496.3  | 468.8  | 463.7  | 461.2  |
| 9728.6  | 57.5° | 11167.4 | 9901.5  | 5036.0 | 965.1  | 701.9  | 498.8  | 441.2  | 426.1  | 416.1  | 406.1  |
| 10518.2 | 60°   | 10826.5 | 8297.2  | 3206.1 | 674.3  | 526.4  | 426.1  | 391.0  | 381.0  | 361.0  | 340.9  |
| 11260.2 | 62.5° | 10089.5 | 6266.8  | 1774.8 | 468.8  | 423.6  | 363.5  | 345.9  | 333.4  | 295.8  | 263.2  |
| 11849.2 | 65°   | 9099.4  | 4166.2  | 784.6  | 366.0  | 345.9  | 305.8  | 295.8  | 278.2  | 233.1  | 195.5  |
| 12072.3 | 67.5° | 8104.2  | 2398.9  | 353.4  | 293.3  | 278.2  | 250.7  | 243.2  | 230.6  | 198.0  | 162.9  |
| 11503.3 | 70°   | 6968.7  | 1215.8  | 243.2  | 233.1  | 215.6  | 190.5  | 198.0  | 195.5  | 162.9  | 132.9  |
| 9382.6  | 72.5° | 5188.9  | 604.1   | 183.0  | 175.5  | 155.4  | 135.4  | 162.9  | 160.4  | 127.8  | 100.3  |
| 5785.5  | 75°   | 2937.9  | 298.3   | 132.9  | 122.8  | 92.7   | 100.3  | 130.3  | 122.8  | 87.7   | 65.2   |
| 2441.5  | 77.5° | 1165.6  | 152.9   | 87.7   | 75.2   | 55.1   | 67.7   | 95.3   | 82.7   | 45.1   | 27.6   |
| 466.2   | 80°   | 268.2   | 75.2    | 45.1   | 32.6   | 25.1   | 40.1   | 50.1   | 30.1   | 12.5   | 2.5    |
| 125.3   | 82.5° | 75.2    | 32.6    | 15.0   | 12.5   | 12.5   | 15.0   | 12.5   | 5.0    | 0.0    | 0.0    |
| 32.6    | 85°   | 25.1    | 15.0    | 5.0    | 2.5    | 2.5    | 2.5    | 2.5    | 0.0    | 0.0    | 0.0    |
| 10.0    | 87.5° | 10.0    | 5.0     | 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°   |
|--------|
| 4406.8 |
| 4196.2 |
| 3737.5 |
| 2905.3 |
| 2055.5 |
| 1699.6 |
| 1651.9 |
| 1614.3 |
| 1576.7 |
| 1536.6 |
| 1501.5 |
| 1466.4 |
| 1431.3 |
| 1391.2 |
| 1348.6 |
| 1275.9 |
| 1153.1 |
| 982.6  |
| 807.2  |
| 671.8  |
| 581.6  |
| 511.4  |
| 456.2  |
| 401.1  |
| 333.4  |
| 253.2  |
| 188.0  |
| 157.9  |
| 127.8  |
| 95.3   |
| 60.2   |
| 25.1   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |