

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: P942056

Luminaire Tested: **GLAN-SB5D-850-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5D-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38562 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - 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

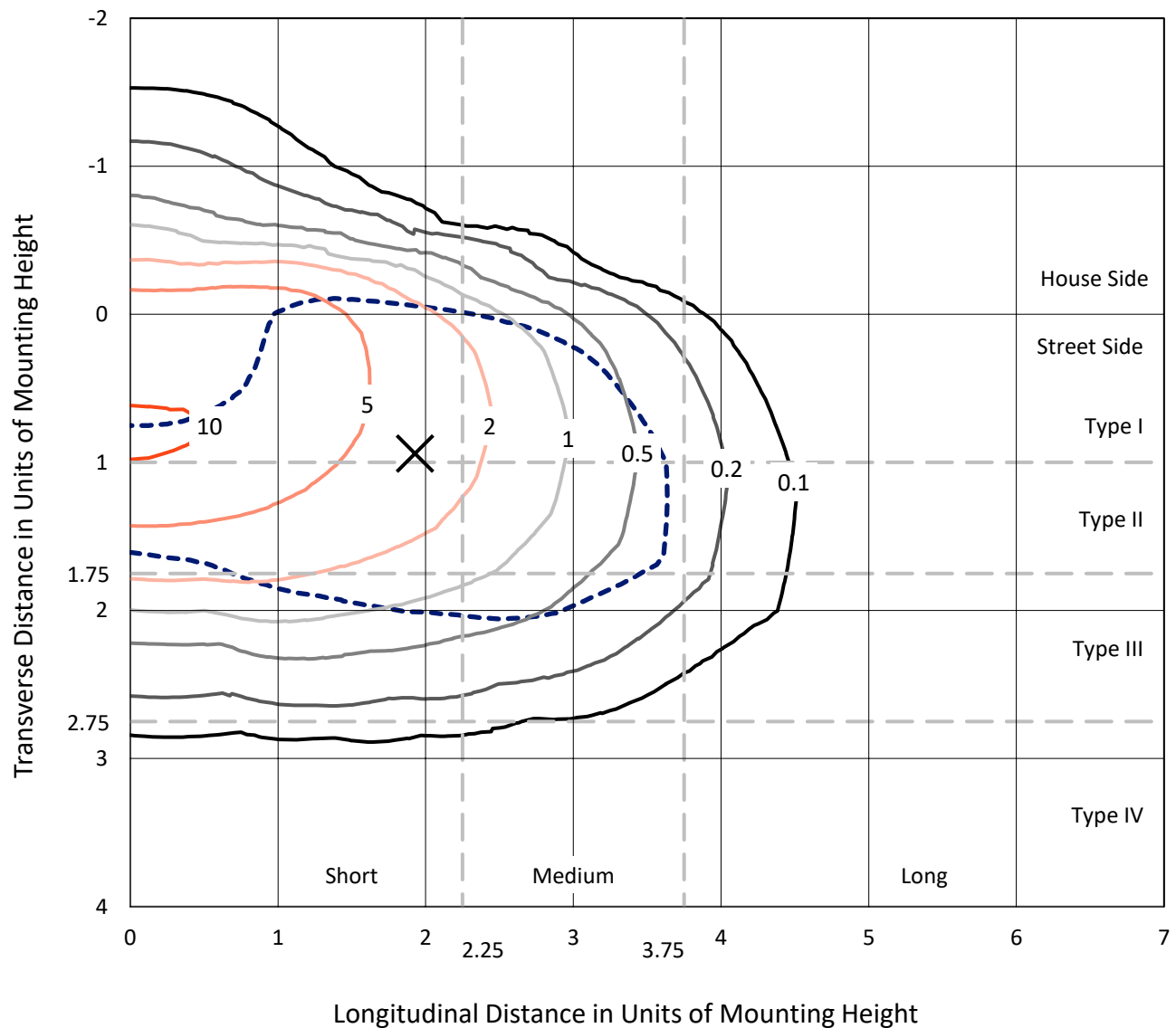


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## Iso-Footcandle Lines of Horizontal Illumination

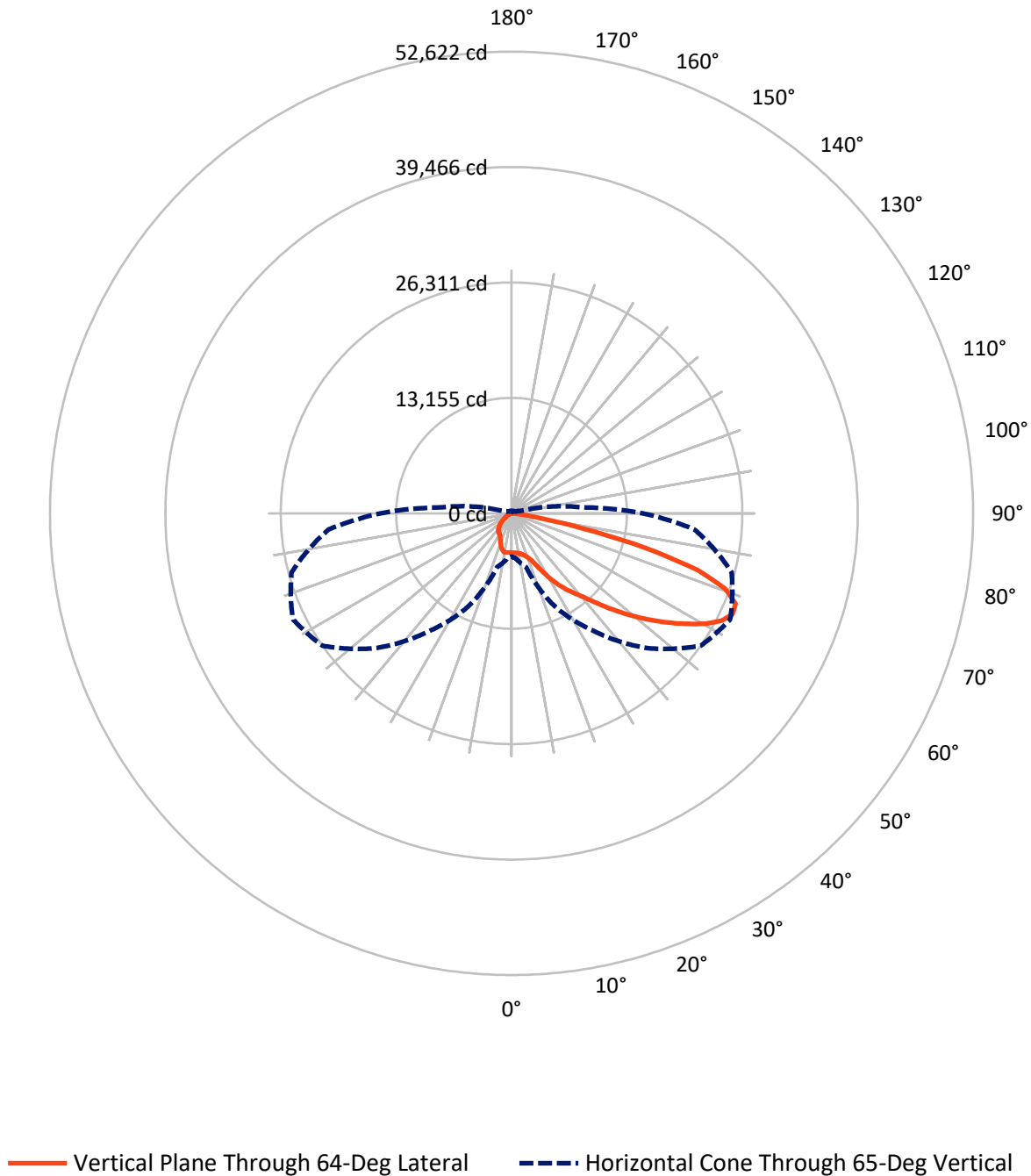
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
Type III - 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    | 5156.9   | 0.0    | 5156.9  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 33405.1  | 0.0    | 33405.1 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 38562.0  | 0.0    | 38562.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 413.8   | 1.1       |
| 10°-20°   | 1122.3  | 2.9       |
| 20°-30°   | 2126.7  | 5.5       |
| 30°-40°   | 4303.5  | 11.2      |
| 40°-50°   | 7331.1  | 19.0      |
| 50°-60°   | 9969.8  | 25.9      |
| 60°-70°   | 9362.1  | 24.3      |
| 70°-80°   | 3750.9  | 9.7       |
| 80°-90°   | 181.7   | 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°    | 38562.0 | 100.0     |
| 0°-180°   | 38562.0 | 100.0     |

**Coefficient of Utilization**



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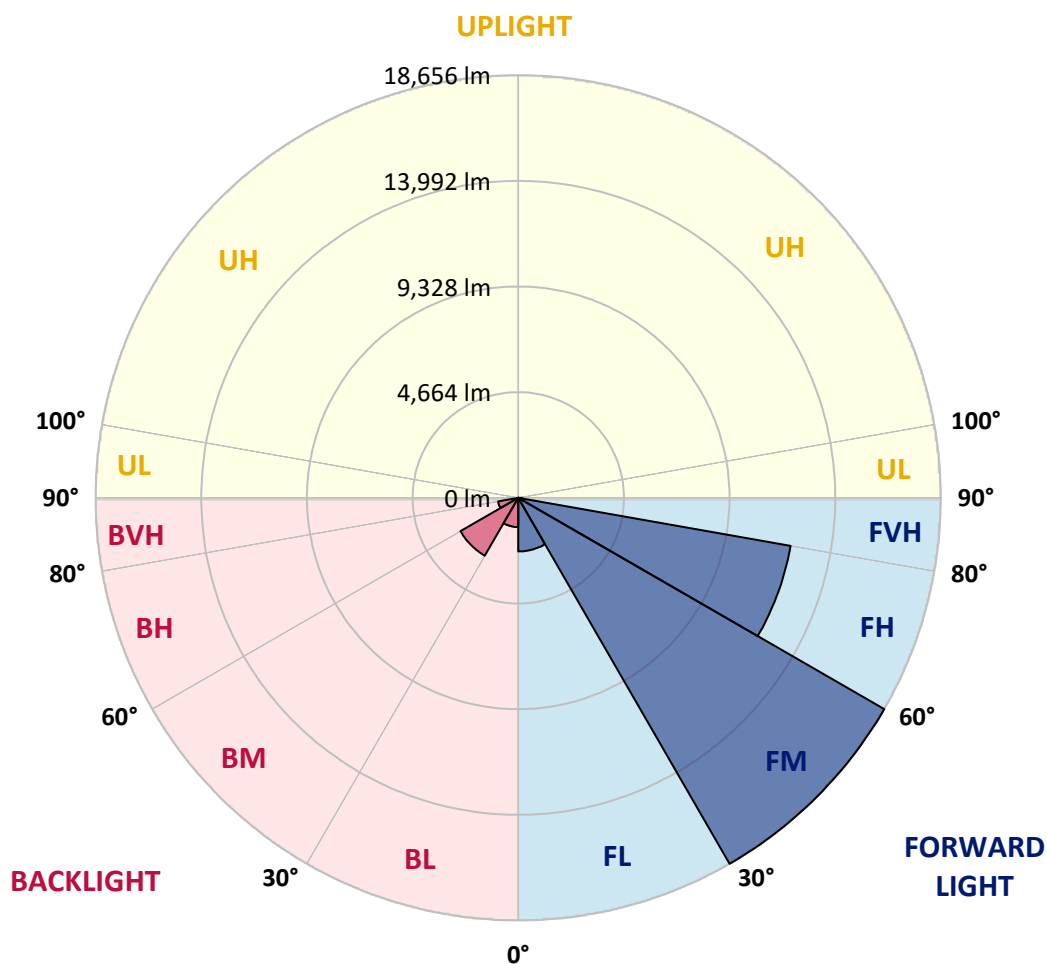
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2368.1  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 18656.2 | 48.4      |                         |      |         |
| FH   | (60°-80°)   | 12207.8 | 31.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 172.8   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1294.7  | 3.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2948.2  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 905.1   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 8.9     | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4485.2  | 4485.2  | 4485.2  | 4485.2  | 4485.2  | 4485.2  | 4485.2  | 4485.2  | 4485.2  | 4485.2  |
| 2.5°  | 4469.7  | 4500.7  | 4492.9  | 4485.2  | 4482.6  | 4487.7  | 4490.3  | 4487.7  | 4487.7  | 4487.7  |
| 5°    | 4384.3  | 4410.2  | 4410.2  | 4428.3  | 4454.1  | 4485.2  | 4508.4  | 4513.6  | 4518.8  | 4526.5  |
| 7.5°  | 4221.5  | 4242.2  | 4257.7  | 4317.1  | 4381.8  | 4464.5  | 4534.3  | 4570.5  | 4575.6  | 4604.1  |
| 10°   | 4110.3  | 4136.2  | 4162.0  | 4224.1  | 4317.1  | 4441.2  | 4560.1  | 4648.0  | 4660.9  | 4728.2  |
| 12.5° | 4105.2  | 4131.0  | 4164.6  | 4231.8  | 4340.4  | 4472.2  | 4617.0  | 4743.7  | 4766.9  | 4865.2  |
| 15°   | 4159.4  | 4190.5  | 4221.5  | 4304.2  | 4420.5  | 4580.8  | 4735.9  | 4893.6  | 4916.9  | 5056.5  |
| 17.5° | 4270.6  | 4312.0  | 4335.2  | 4417.9  | 4542.0  | 4720.4  | 4924.6  | 5105.6  | 5126.3  | 5289.1  |
| 20°   | 4490.3  | 4539.4  | 4547.2  | 4614.4  | 4735.9  | 4927.2  | 5170.2  | 5395.1  | 5421.0  | 5607.1  |
| 22.5° | 4945.3  | 5015.1  | 4953.1  | 4986.7  | 5095.2  | 5286.5  | 5550.2  | 5834.6  | 5870.8  | 6082.8  |
| 25°   | 5746.7  | 5844.9  | 5684.7  | 5627.8  | 5674.3  | 5873.4  | 6204.3  | 6563.6  | 6604.9  | 6775.6  |
| 27.5° | 7321.0  | 7194.4  | 6951.4  | 6713.5  | 6573.9  | 6687.7  | 7059.9  | 7504.6  | 7556.3  | 7721.7  |
| 30°   | 9050.5  | 8939.3  | 8611.0  | 8083.6  | 7752.7  | 7734.6  | 8078.5  | 8574.8  | 8634.3  | 8791.9  |
| 32.5° | 10782.5 | 10676.5 | 10319.7 | 9670.9  | 9097.0  | 8812.6  | 9050.5  | 9601.1  | 9632.1  | 9732.9  |
| 35°   | 12486.1 | 12377.5 | 12020.7 | 11356.4 | 10650.6 | 10004.4 | 9957.8  | 10578.3 | 10588.6 | 10694.6 |
| 37.5° | 14200.0 | 14109.5 | 13729.5 | 13078.1 | 12382.7 | 11490.8 | 11059.1 | 11503.7 | 11516.7 | 11620.1 |
| 40°   | 15422.7 | 15461.5 | 15200.4 | 14696.3 | 14099.2 | 13124.6 | 12294.8 | 12488.7 | 12411.1 | 12584.3 |
| 42.5° | 16472.3 | 16549.9 | 16322.4 | 16069.0 | 15722.6 | 14864.4 | 13825.2 | 13791.5 | 13667.5 | 13760.5 |
| 45°   | 17379.7 | 17444.3 | 17240.1 | 17180.6 | 17172.9 | 16570.5 | 15497.7 | 15296.1 | 15122.9 | 15104.8 |
| 47.5° | 17713.2 | 17837.2 | 17925.1 | 18124.2 | 18512.0 | 18258.6 | 17227.2 | 16914.4 | 16720.5 | 16578.3 |
| 50°   | 17839.8 | 17971.7 | 18271.5 | 18850.6 | 19768.3 | 19876.9 | 18948.8 | 18597.3 | 18359.4 | 18100.9 |
| 52.5° | 17669.2 | 17904.5 | 18307.7 | 19282.3 | 20613.6 | 21174.6 | 20600.7 | 20293.1 | 20021.7 | 19600.3 |
| 55°   | 16663.6 | 16898.8 | 17723.5 | 19277.1 | 21035.0 | 22084.6 | 22162.1 | 22025.1 | 21720.1 | 21055.7 |
| 57.5° | 14543.8 | 14892.8 | 16198.3 | 18620.5 | 21027.3 | 22867.9 | 23692.5 | 23790.7 | 23449.5 | 22498.2 |
| 60°   | 11607.1 | 12080.2 | 13672.6 | 17165.1 | 20378.4 | 23291.8 | 25034.2 | 25525.3 | 25163.4 | 23920.0 |
| 62.5° | 8099.1  | 8647.2  | 10154.3 | 14885.0 | 18894.5 | 22986.8 | 26013.9 | 26921.3 | 26647.3 | 25191.9 |
| 65°   | 4940.1  | 5115.9  | 6330.9  | 11713.1 | 16371.5 | 21709.7 | 26316.4 | 27676.2 | 27585.7 | 25970.0 |
| 67.5° | 3290.8  | 3438.2  | 3787.2  | 8031.9  | 12708.4 | 19158.2 | 25592.6 | 27544.3 | 27570.2 | 25843.3 |
| 70°   | 1982.8  | 2109.4  | 2336.9  | 4671.3  | 8236.2  | 15164.2 | 23351.3 | 25864.0 | 26013.9 | 24150.1 |
| 72.5° | 816.9   | 902.2   | 1109.0  | 2117.2  | 4265.4  | 9624.4  | 18594.7 | 22206.1 | 22555.1 | 20306.0 |
| 75°   | 462.7   | 506.7   | 651.4   | 1062.5  | 1850.9  | 4485.2  | 11263.3 | 15764.0 | 16278.4 | 13995.8 |
| 77.5° | 307.6   | 328.3   | 421.4   | 687.6   | 1041.8  | 1530.4  | 4813.5  | 8212.9  | 9195.2  | 7644.2  |
| 80°   | 206.8   | 224.9   | 289.5   | 460.1   | 677.3   | 656.6   | 1533.0  | 3042.7  | 3743.2  | 2626.5  |
| 82.5° | 139.6   | 142.2   | 206.8   | 302.5   | 429.1   | 318.0   | 452.4   | 946.1   | 1189.1  | 760.0   |
| 85°   | 80.1    | 77.6    | 152.5   | 175.8   | 191.3   | 131.8   | 137.0   | 284.4   | 372.3   | 320.6   |
| 87.5° | 10.3    | 15.5    | 59.5    | 46.5    | 25.9    | 28.4    | 28.4    | 49.1    | 72.4    | 77.6    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4485.2  | 0°    | 4485.2  | 4485.2  | 4485.2 | 4485.2 | 4485.2 | 4485.2 | 4485.2 | 4485.2 | 4485.2 | 4485.2 |
| 4490.3  | 2.5°  | 4490.3  | 4487.7  | 4480.0 | 4472.2 | 4454.1 | 4443.8 | 4449.0 | 4443.8 | 4441.2 | 4443.8 |
| 4523.9  | 5°    | 4523.9  | 4516.2  | 4495.5 | 4469.7 | 4433.5 | 4389.5 | 4361.1 | 4319.7 | 4280.9 | 4257.7 |
| 4614.4  | 7.5°  | 4614.4  | 4606.7  | 4578.2 | 4505.8 | 4389.5 | 4206.0 | 4037.9 | 3890.6 | 3779.4 | 3714.8 |
| 4759.2  | 10°   | 4759.2  | 4746.3  | 4702.3 | 4542.0 | 4237.0 | 3836.3 | 3502.8 | 3226.2 | 3045.3 | 2959.9 |
| 4929.8  | 12.5° | 4929.8  | 4914.3  | 4836.7 | 4508.4 | 3947.5 | 3321.9 | 2861.7 | 2554.1 | 2386.1 | 2311.1 |
| 5126.3  | 15°   | 5131.4  | 5110.8  | 4958.2 | 4348.2 | 3526.1 | 2753.1 | 2331.8 | 2101.7 | 1993.1 | 1925.9 |
| 5377.0  | 17.5° | 5382.2  | 5346.0  | 5048.7 | 4107.7 | 3068.5 | 2318.8 | 2006.0 | 1832.8 | 1737.2 | 1672.6 |
| 5705.3  | 20°   | 5707.9  | 5648.5  | 5121.1 | 3820.8 | 2647.1 | 2044.8 | 1786.3 | 1641.5 | 1569.2 | 1512.3 |
| 6170.7  | 22.5° | 6162.9  | 6077.6  | 5209.0 | 3510.6 | 2349.9 | 1856.1 | 1623.4 | 1517.5 | 1458.0 | 1393.4 |
| 6819.5  | 25°   | 6726.4  | 6625.6  | 5317.6 | 3223.6 | 2145.6 | 1693.2 | 1504.5 | 1416.6 | 1346.8 | 1271.9 |
| 7670.0  | 27.5° | 7514.9  | 7333.9  | 5446.8 | 2988.4 | 1969.9 | 1553.6 | 1396.0 | 1297.7 | 1217.6 | 1155.5 |
| 8634.3  | 30°   | 8393.8  | 8096.6  | 5560.6 | 2846.2 | 1809.6 | 1424.4 | 1253.8 | 1155.5 | 1080.6 | 1036.6 |
| 9500.3  | 32.5° | 9226.2  | 8823.0  | 5635.5 | 2784.2 | 1664.8 | 1277.0 | 1098.7 | 992.7  | 935.8  | 922.9  |
| 10348.2 | 35°   | 10012.1 | 9479.6  | 5627.8 | 2724.7 | 1535.6 | 1129.7 | 946.1  | 837.6  | 793.6  | 801.4  |
| 11260.7 | 37.5° | 10916.9 | 10180.2 | 5573.5 | 2631.6 | 1429.6 | 995.3  | 814.3  | 718.7  | 679.9  | 682.5  |
| 12369.7 | 40°   | 11969.0 | 10989.3 | 5539.9 | 2455.9 | 1313.2 | 871.2  | 705.7  | 628.2  | 599.7  | 589.4  |
| 13538.2 | 42.5° | 13091.0 | 11772.6 | 5545.1 | 2256.8 | 1168.5 | 760.0  | 630.8  | 566.1  | 540.3  | 532.5  |
| 14838.5 | 45°   | 14218.1 | 12519.7 | 5552.8 | 2050.0 | 1015.9 | 674.7  | 576.5  | 522.2  | 506.7  | 496.3  |
| 16156.9 | 47.5° | 15278.0 | 13155.6 | 5408.0 | 1827.7 | 866.0  | 610.1  | 532.5  | 496.3  | 483.4  | 470.5  |
| 17480.5 | 50°   | 16265.5 | 13579.6 | 5059.1 | 1569.2 | 747.1  | 558.4  | 498.9  | 473.1  | 460.1  | 447.2  |
| 18680.0 | 52.5° | 17033.3 | 13646.8 | 4482.6 | 1302.9 | 664.4  | 519.6  | 478.2  | 455.0  | 439.5  | 426.5  |
| 19649.4 | 55°   | 17374.5 | 13225.4 | 3663.1 | 1054.7 | 599.7  | 486.0  | 457.6  | 434.3  | 416.2  | 403.3  |
| 20412.0 | 57.5° | 17286.6 | 12338.7 | 2856.5 | 847.9  | 537.7  | 452.4  | 431.7  | 416.2  | 395.5  | 374.8  |
| 21029.8 | 60°   | 16854.9 | 11152.2 | 2153.4 | 705.7  | 480.8  | 416.2  | 403.3  | 390.4  | 361.9  | 330.9  |
| 21267.7 | 62.5° | 16107.8 | 9660.5  | 1535.6 | 584.2  | 418.8  | 374.8  | 369.7  | 359.3  | 318.0  | 261.1  |
| 20916.1 | 65°   | 14965.2 | 7848.4  | 1034.0 | 486.0  | 359.3  | 328.3  | 330.9  | 312.8  | 258.5  | 193.9  |
| 19628.7 | 67.5° | 13295.2 | 5738.9  | 661.8  | 398.1  | 299.9  | 274.0  | 276.6  | 266.3  | 219.7  | 165.4  |
| 17188.4 | 70°   | 11167.7 | 3800.1  | 431.7  | 302.5  | 240.4  | 212.0  | 227.5  | 230.1  | 186.1  | 134.4  |
| 13191.8 | 72.5° | 8187.0  | 2243.9  | 302.5  | 224.9  | 175.8  | 147.4  | 186.1  | 191.3  | 149.9  | 100.8  |
| 7936.3  | 75°   | 4666.1  | 1065.1  | 227.5  | 162.9  | 108.6  | 103.4  | 144.8  | 144.8  | 103.4  | 67.2   |
| 3435.6  | 77.5° | 1959.5  | 444.6   | 160.3  | 106.0  | 62.0   | 59.5   | 98.2   | 90.5   | 51.7   | 31.0   |
| 837.6   | 80°   | 566.1   | 199.1   | 85.3   | 51.7   | 25.9   | 23.3   | 38.8   | 28.4   | 12.9   | 5.2    |
| 318.0   | 82.5° | 222.3   | 87.9    | 33.6   | 20.7   | 10.3   | 10.3   | 5.2    | 0.0    | 0.0    | 0.0    |
| 181.0   | 85°   | 131.8   | 36.2    | 15.5   | 7.8    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 38.8    | 87.5° | 33.6    | 7.8     | 5.2    | 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°   |
|--------|
| 4485.2 |
| 4454.1 |
| 4262.8 |
| 3717.4 |
| 2952.2 |
| 2303.3 |
| 1928.5 |
| 1667.4 |
| 1501.9 |
| 1383.0 |
| 1264.1 |
| 1142.6 |
| 1028.9 |
| 930.6  |
| 801.4  |
| 692.8  |
| 586.8  |
| 529.9  |
| 496.3  |
| 470.5  |
| 447.2  |
| 424.0  |
| 400.7  |
| 372.3  |
| 325.7  |
| 255.9  |
| 188.7  |
| 157.7  |
| 129.3  |
| 95.6   |
| 62.0   |
| 31.0   |
| 5.2    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |