

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: P943075

Luminaire Tested: **GLAN-SB7B-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943075  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7B-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37954 lumens  
Efficiency: N/A  
Efficacy: 147.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

Input Watts (W): 256.7  
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



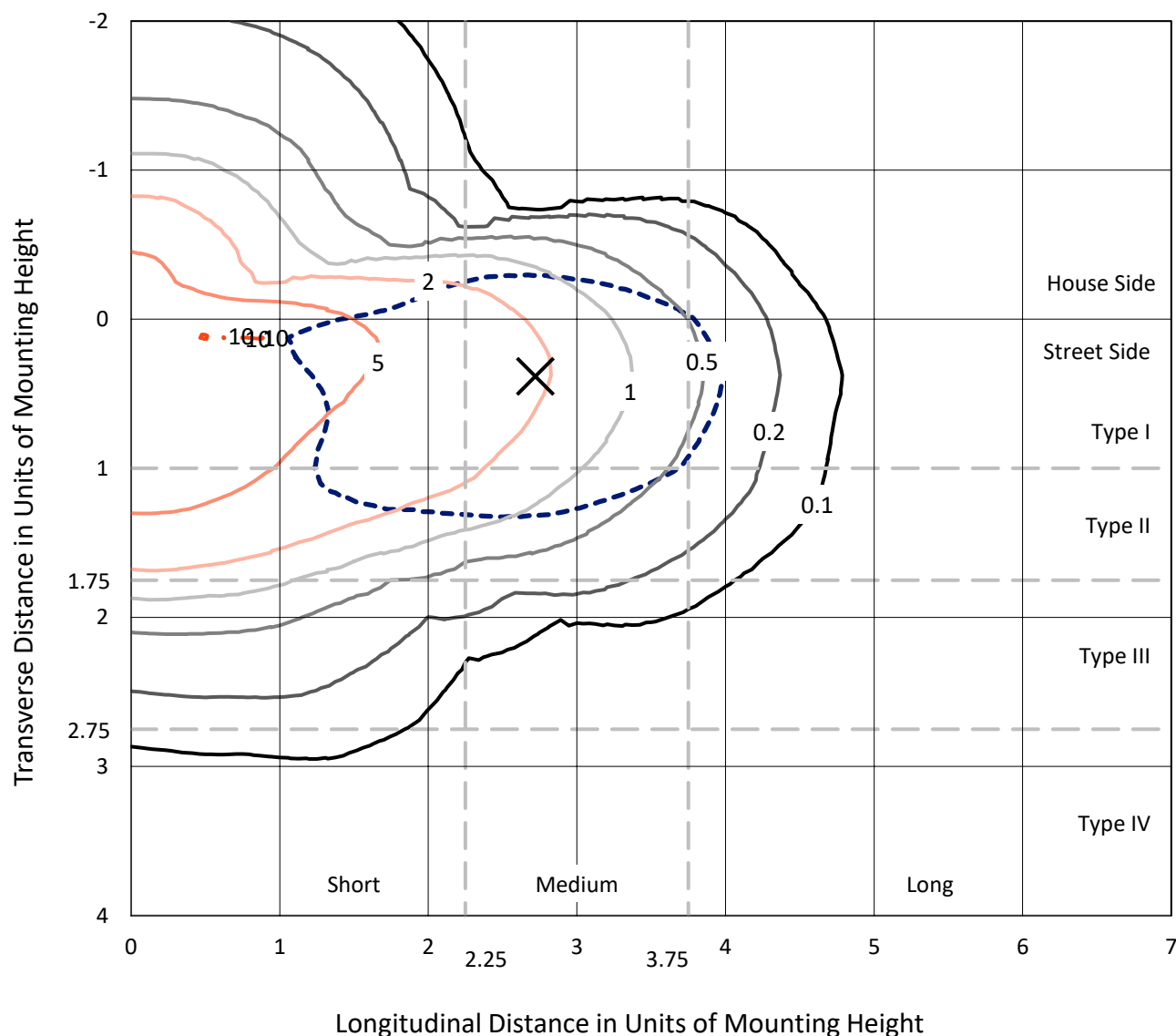
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

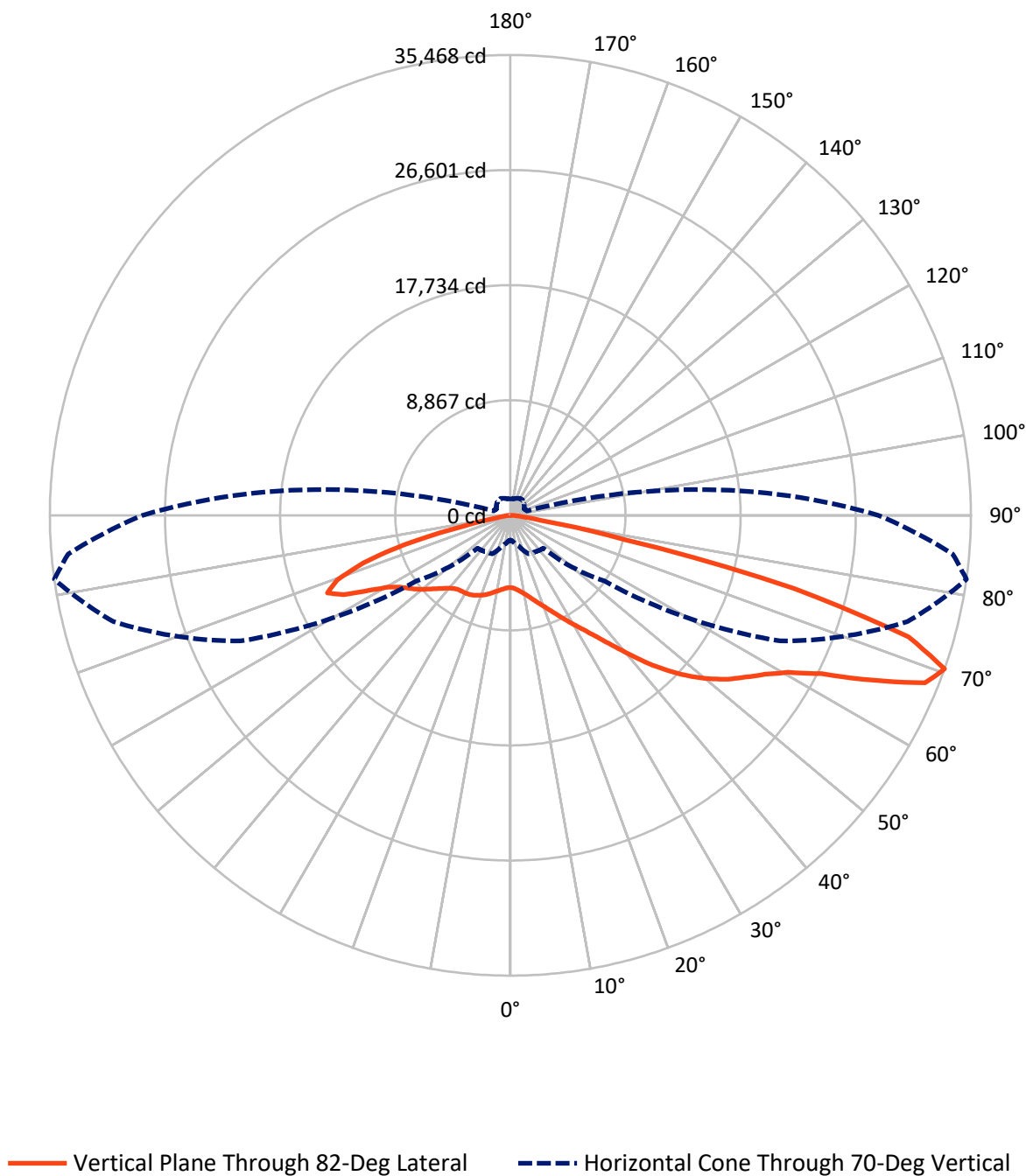
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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    | 9356.6   | 0.0    | 9356.6  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 28597.4  | 0.0    | 28597.4 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 37954.0  | 0.0    | 37954.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 525.4   | 1.4       |
| 10°-20°   | 1509.5  | 4.0       |
| 20°-30°   | 2525.2  | 6.7       |
| 30°-40°   | 3945.0  | 10.4      |
| 40°-50°   | 6282.9  | 16.6      |
| 50°-60°   | 8743.4  | 23.0      |
| 60°-70°   | 9146.0  | 24.1      |
| 70°-80°   | 4780.2  | 12.6      |
| 80°-90°   | 496.4   | 1.3       |
| 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°    | 37954.0 | 100.0     |
| 0°-180°   | 37954.0 | 100.0     |

**Coefficient of Utilization**



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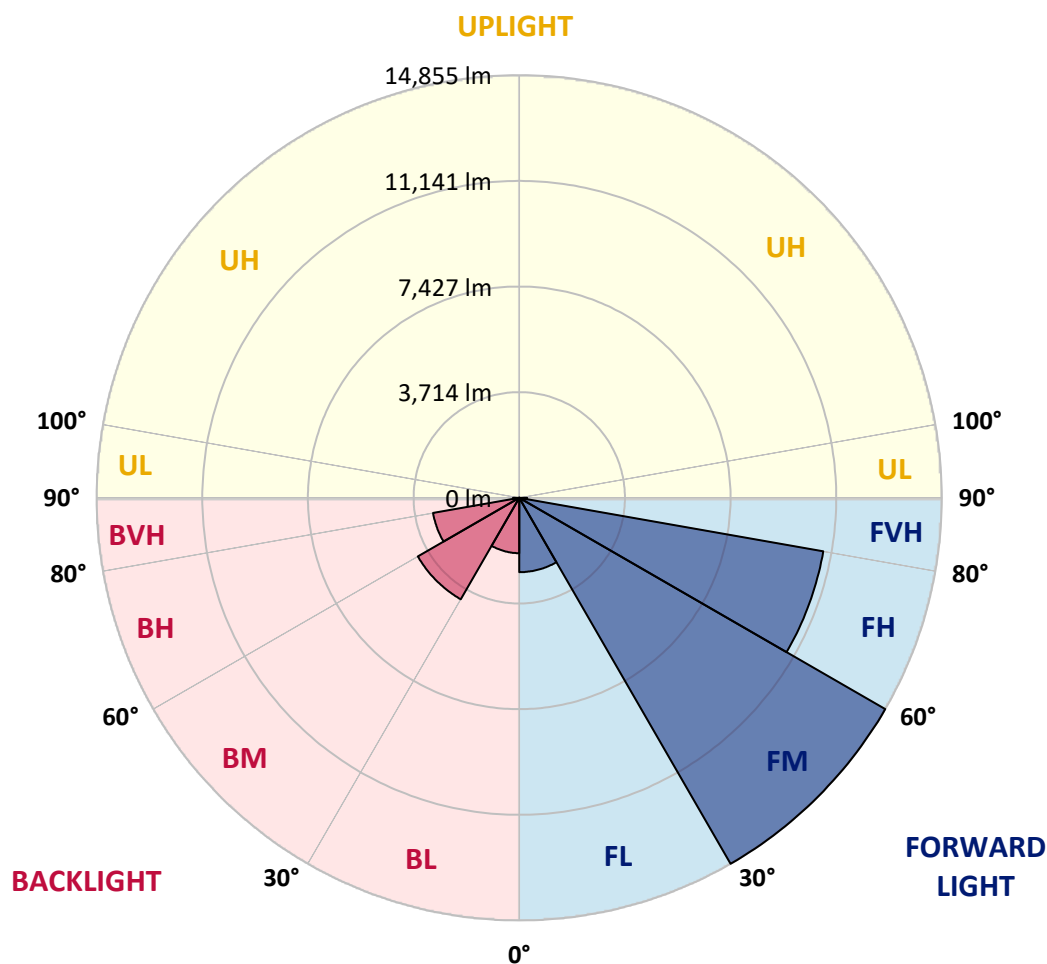
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2613.6  | 6.9       |                         |      |          |
| FM   | (30°-60°)   | 14854.8 | 39.1      |                         |      |          |
| FH   | (60°-80°)   | 10851.2 | 28.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 277.9   | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1946.5  | 5.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4116.5  | 10.8      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 3075.1  | 8.1       | B4/5000                 |      | G4/5000  |
| BVH  | (80°-90°)   | 218.5   | 0.6       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5564.5  | 5564.5  | 5564.5  | 5564.5  | 5564.5  | 5564.5  | 5564.5  | 5564.5  | 5564.5  | 5564.5  |
| 2.5°  | 5697.5  | 5729.7  | 5719.6  | 5709.5  | 5709.5  | 5695.4  | 5693.4  | 5673.3  | 5657.2  | 5631.0  |
| 5°    | 5770.0  | 5804.2  | 5800.2  | 5808.2  | 5834.4  | 5840.4  | 5846.5  | 5834.4  | 5802.2  | 5770.0  |
| 7.5°  | 5705.5  | 5743.8  | 5755.9  | 5804.2  | 5884.7  | 5957.3  | 6011.6  | 6033.8  | 6003.6  | 5957.3  |
| 10°   | 5488.0  | 5530.3  | 5572.6  | 5687.4  | 5830.4  | 6001.6  | 6146.6  | 6233.2  | 6227.1  | 6182.8  |
| 12.5° | 5046.9  | 5091.3  | 5181.9  | 5405.4  | 5667.2  | 5969.3  | 6239.2  | 6420.5  | 6482.9  | 6450.7  |
| 15°   | 4694.5  | 4732.8  | 4801.2  | 5030.8  | 5371.2  | 5830.4  | 6273.4  | 6625.9  | 6785.0  | 6766.9  |
| 17.5° | 4684.4  | 4700.5  | 4742.8  | 4851.6  | 5113.4  | 5612.9  | 6237.2  | 6827.3  | 7131.4  | 7129.4  |
| 20°   | 4861.7  | 4867.7  | 4891.9  | 4914.0  | 5063.1  | 5447.7  | 6144.5  | 6994.4  | 7520.1  | 7520.1  |
| 22.5° | 5107.4  | 5103.3  | 5127.5  | 5107.4  | 5179.9  | 5433.6  | 6086.1  | 7141.5  | 7953.1  | 7985.3  |
| 25°   | 5475.9  | 5455.8  | 5449.7  | 5403.4  | 5417.5  | 5564.5  | 6150.6  | 7308.6  | 8466.6  | 8533.1  |
| 27.5° | 5967.3  | 5935.1  | 5912.9  | 5806.2  | 5770.0  | 5834.4  | 6348.0  | 7510.0  | 9038.6  | 9153.4  |
| 30°   | 6607.8  | 6549.4  | 6517.1  | 6331.8  | 6200.9  | 6211.0  | 6646.0  | 7777.9  | 9636.7  | 9822.0  |
| 32.5° | 7481.8  | 7391.2  | 7304.6  | 7000.5  | 6760.8  | 6682.3  | 7030.7  | 8148.4  | 10285.2 | 10581.3 |
| 35°   | 8460.6  | 8388.1  | 8295.4  | 7826.2  | 7457.6  | 7276.4  | 7550.3  | 8666.0  | 11044.5 | 11513.7 |
| 37.5° | 9403.1  | 9340.7  | 9385.0  | 8752.6  | 8277.3  | 8013.5  | 8231.0  | 9360.8  | 11981.0 | 12673.8 |
| 40°   | 10377.9 | 10329.5 | 10335.6 | 9731.4  | 9177.5  | 8881.5  | 9056.7  | 10232.9 | 13054.4 | 14053.3 |
| 42.5° | 11437.2 | 11400.9 | 11280.1 | 10744.4 | 10122.1 | 9846.2  | 10007.3 | 11239.8 | 14206.4 | 15624.2 |
| 45°   | 12623.4 | 12601.3 | 12488.5 | 11874.2 | 11161.3 | 10851.1 | 11068.6 | 12351.5 | 15364.4 | 17102.4 |
| 47.5° | 13648.5 | 13666.6 | 13652.5 | 13135.0 | 12395.8 | 11940.7 | 12200.5 | 13511.6 | 16441.8 | 18492.0 |
| 50°   | 14141.9 | 14236.6 | 14375.5 | 14214.4 | 13755.2 | 13292.0 | 13342.4 | 14631.3 | 17469.0 | 19795.1 |
| 52.5° | 13884.1 | 14063.4 | 14442.0 | 14699.8 | 14877.0 | 14780.3 | 14645.4 | 15743.0 | 18435.7 | 20971.2 |
| 55°   | 12923.5 | 13175.2 | 13803.6 | 14425.9 | 15330.2 | 16033.0 | 16210.2 | 16975.5 | 19378.2 | 22006.4 |
| 57.5° | 11173.4 | 11582.2 | 12146.1 | 13404.8 | 14927.4 | 16639.2 | 18034.9 | 18685.4 | 20377.1 | 23112.0 |
| 60°   | 8172.6  | 8720.4  | 9421.2  | 11294.2 | 13517.6 | 16315.0 | 19587.6 | 21311.6 | 21796.9 | 24544.0 |
| 62.5° | 5230.2  | 5568.6  | 6213.0  | 7977.2  | 10532.9 | 14653.5 | 20062.9 | 24594.3 | 24203.6 | 26892.2 |
| 65°   | 3580.8  | 3798.3  | 4388.4  | 5379.2  | 6809.1  | 10907.5 | 18790.1 | 27055.3 | 28026.1 | 30614.0 |
| 67.5° | 2602.0  | 2767.2  | 3270.6  | 4138.7  | 4436.7  | 6454.7  | 14581.0 | 26942.6 | 31741.8 | 34448.5 |
| 70°   | 1897.1  | 2013.9  | 2436.9  | 3270.6  | 3413.6  | 3590.9  | 8833.2  | 22902.6 | 31661.2 | 35467.6 |
| 72.5° | 1405.7  | 1486.3  | 1770.3  | 2537.6  | 2763.1  | 2424.8  | 4372.3  | 16645.3 | 27206.4 | 32080.1 |
| 75°   | 1017.0  | 1077.5  | 1286.9  | 1941.4  | 2211.3  | 1846.8  | 2181.1  | 9727.4  | 18977.4 | 22566.3 |
| 77.5° | 777.4   | 823.7   | 960.7   | 1421.8  | 1770.3  | 1385.6  | 1353.4  | 4475.0  | 8998.3  | 9042.6  |
| 80°   | 624.3   | 654.5   | 729.0   | 1000.9  | 1357.4  | 1037.2  | 882.1   | 1806.5  | 2843.7  | 2406.7  |
| 82.5° | 459.2   | 509.5   | 616.3   | 702.9   | 970.7   | 715.0   | 537.7   | 912.3   | 1081.5  | 930.4   |
| 85°   | 261.8   | 296.0   | 372.6   | 503.5   | 620.3   | 437.0   | 308.1   | 404.8   | 503.5   | 412.9   |
| 87.5° | 92.6    | 120.8   | 130.9   | 197.4   | 269.9   | 181.3   | 118.8   | 116.8   | 165.1   | 122.9   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5564.5  | 0°    | 5564.5  | 5564.5  | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 |
| 5624.9  | 2.5°  | 5604.8  | 5594.7  | 5554.5 | 5500.1 | 5443.7 | 5389.3 | 5371.2 | 5332.9 | 5306.7 | 5292.6 |
| 5755.9  | 5°    | 5717.6  | 5685.4  | 5590.7 | 5469.9 | 5343.0 | 5206.0 | 5109.4 | 5020.8 | 4956.3 | 4895.9 |
| 5935.1  | 7.5°  | 5878.7  | 5822.3  | 5659.2 | 5447.7 | 5222.2 | 4994.6 | 4825.4 | 4696.5 | 4609.9 | 4553.5 |
| 6144.5  | 10°   | 6066.0  | 5979.4  | 5729.7 | 5413.5 | 5065.1 | 4738.8 | 4539.4 | 4428.7 | 4374.3 | 4344.1 |
| 6384.2  | 12.5° | 6281.5  | 6158.6  | 5802.2 | 5334.9 | 4825.4 | 4452.8 | 4315.9 | 4283.7 | 4285.7 | 4287.7 |
| 6686.3  | 15°   | 6547.3  | 6376.2  | 5860.6 | 5163.8 | 4513.3 | 4233.3 | 4209.1 | 4261.5 | 4315.9 | 4342.1 |
| 7028.7  | 17.5° | 6847.4  | 6605.7  | 5870.7 | 4881.8 | 4207.1 | 4092.3 | 4168.9 | 4281.6 | 4364.2 | 4400.5 |
| 7411.3  | 20°   | 7169.6  | 6839.4  | 5798.1 | 4483.0 | 3955.4 | 3977.5 | 4114.5 | 4259.5 | 4350.1 | 4396.4 |
| 7848.3  | 22.5° | 7538.2  | 7089.1  | 5624.9 | 4064.1 | 3750.0 | 3852.7 | 4013.8 | 4154.8 | 4249.4 | 4295.7 |
| 8361.9  | 25°   | 7959.1  | 7369.0  | 5353.1 | 3711.7 | 3572.7 | 3711.7 | 3872.8 | 3989.6 | 4066.2 | 4108.4 |
| 8935.9  | 27.5° | 8426.3  | 7661.0  | 4990.6 | 3431.8 | 3417.7 | 3566.7 | 3699.6 | 3790.2 | 3830.5 | 3862.7 |
| 9546.1  | 30°   | 8895.6  | 7926.9  | 4551.5 | 3220.3 | 3282.7 | 3423.7 | 3518.4 | 3558.6 | 3570.7 | 3576.8 |
| 10226.8 | 32.5° | 9403.1  | 8156.5  | 4090.3 | 3045.1 | 3153.8 | 3284.7 | 3341.1 | 3359.3 | 3302.9 | 3264.6 |
| 11052.5 | 35°   | 10017.4 | 8402.2  | 3639.2 | 2906.1 | 3027.0 | 3139.7 | 3157.9 | 3141.8 | 3075.3 | 2996.8 |
| 12087.7 | 37.5° | 10776.6 | 8708.3  | 3278.7 | 2807.4 | 2908.1 | 2982.7 | 2960.5 | 2956.5 | 2962.5 | 2869.9 |
| 13332.3 | 40°   | 11707.1 | 9107.1  | 3014.9 | 2730.9 | 2811.5 | 2827.6 | 2765.1 | 2799.4 | 2829.6 | 2688.6 |
| 14697.8 | 42.5° | 12740.2 | 9588.4  | 2847.7 | 2678.5 | 2730.9 | 2692.6 | 2596.0 | 2634.2 | 2630.2 | 2444.9 |
| 16069.3 | 45°   | 13793.5 | 10112.0 | 2789.3 | 2640.3 | 2656.4 | 2579.9 | 2473.1 | 2483.2 | 2398.6 | 2231.5 |
| 17384.4 | 47.5° | 14840.8 | 10673.9 | 2825.6 | 2608.1 | 2563.8 | 2477.2 | 2394.6 | 2350.3 | 2225.4 | 2100.5 |
| 18645.1 | 50°   | 15867.9 | 11264.0 | 2958.5 | 2543.6 | 2436.9 | 2386.5 | 2326.1 | 2247.6 | 2114.6 | 2007.9 |
| 19837.4 | 52.5° | 16820.5 | 11858.1 | 3107.5 | 2436.9 | 2277.8 | 2308.0 | 2269.7 | 2179.1 | 2048.2 | 1939.4 |
| 20965.2 | 55°   | 17722.7 | 12452.2 | 3165.9 | 2289.9 | 2128.7 | 2239.5 | 2217.4 | 2050.2 | 1893.1 | 1804.5 |
| 22145.3 | 57.5° | 18705.5 | 13167.2 | 3101.5 | 2102.6 | 2007.9 | 2161.0 | 2076.4 | 1891.1 | 1800.5 | 1734.0 |
| 23682.0 | 60°   | 20067.0 | 14288.9 | 2962.5 | 1871.0 | 1893.1 | 2044.2 | 1899.2 | 1822.6 | 1723.9 | 1649.4 |
| 25985.9 | 62.5° | 22328.6 | 16381.4 | 2739.0 | 1641.4 | 1758.2 | 1871.0 | 1814.6 | 1738.0 | 1637.3 | 1564.8 |
| 29925.2 | 65°   | 25671.8 | 19289.6 | 2318.1 | 1462.1 | 1607.1 | 1701.8 | 1723.9 | 1647.4 | 1542.7 | 1466.2 |
| 33377.1 | 67.5° | 28491.3 | 21114.2 | 1754.1 | 1313.1 | 1452.1 | 1564.8 | 1627.3 | 1552.8 | 1442.0 | 1367.5 |
| 34184.7 | 70°   | 28336.2 | 19789.0 | 1339.3 | 1166.1 | 1315.1 | 1429.9 | 1510.5 | 1452.1 | 1333.2 | 1262.7 |
| 31051.0 | 72.5° | 25168.3 | 16554.6 | 1083.5 | 1017.0 | 1176.1 | 1288.9 | 1385.6 | 1341.3 | 1220.5 | 1152.0 |
| 22747.5 | 75°   | 18490.0 | 11751.4 | 866.0  | 866.0  | 1002.9 | 1141.9 | 1248.6 | 1220.5 | 1109.7 | 1061.3 |
| 9550.1  | 77.5° | 7794.0  | 4930.1  | 678.7  | 719.0  | 833.8  | 980.8  | 1113.7 | 1123.8 | 1027.1 | 1087.5 |
| 2525.5  | 80°   | 2072.3  | 1359.4  | 517.6  | 565.9  | 654.5  | 809.6  | 968.7  | 964.7  | 860.0  | 803.6  |
| 938.5   | 82.5° | 789.5   | 535.7   | 368.6  | 398.8  | 473.3  | 620.3  | 767.3  | 791.5  | 686.8  | 594.1  |
| 368.6   | 85°   | 304.1   | 229.6   | 227.6  | 239.7  | 275.9  | 410.8  | 580.0  | 600.2  | 517.6  | 439.0  |
| 102.7   | 87.5° | 78.5    | 68.5    | 84.6   | 80.6   | 126.9  | 219.5  | 332.3  | 344.4  | 316.2  | 183.3  |
| 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°   |
|--------|
| 5564.5 |
| 5308.8 |
| 4920.1 |
| 4565.6 |
| 4352.1 |
| 4291.7 |
| 4340.1 |
| 4408.5 |
| 4408.5 |
| 4307.8 |
| 4120.5 |
| 3874.8 |
| 3590.9 |
| 3276.7 |
| 3000.8 |
| 2875.9 |
| 2692.6 |
| 2442.9 |
| 2237.5 |
| 2100.5 |
| 1999.8 |
| 1941.4 |
| 1796.4 |
| 1728.0 |
| 1645.4 |
| 1564.8 |
| 1470.2 |
| 1369.5 |
| 1268.8 |
| 1152.0 |
| 1047.3 |
| 986.8  |
| 747.2  |
| 594.1  |
| 453.1  |
| 261.8  |
| 0.0    |