

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: McGRAW-EDISON

Report Number: P955661

Luminaire Tested: **GALN-SB8C-750-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-750-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

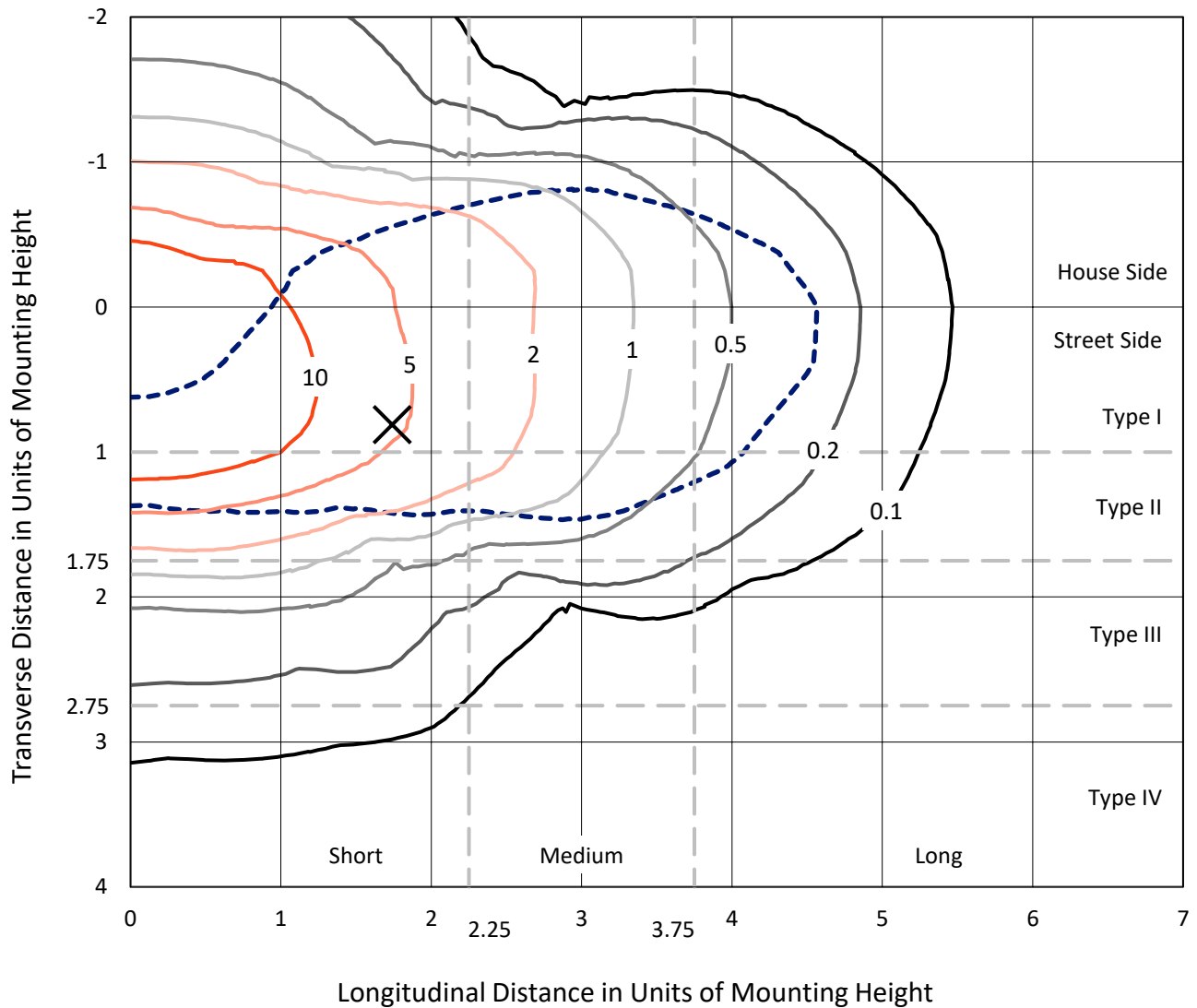
Lumens per Lamp: N/A  
Luminaire Lumens: 64927 lumens  
Efficiency: N/A  
Efficacy: 162.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

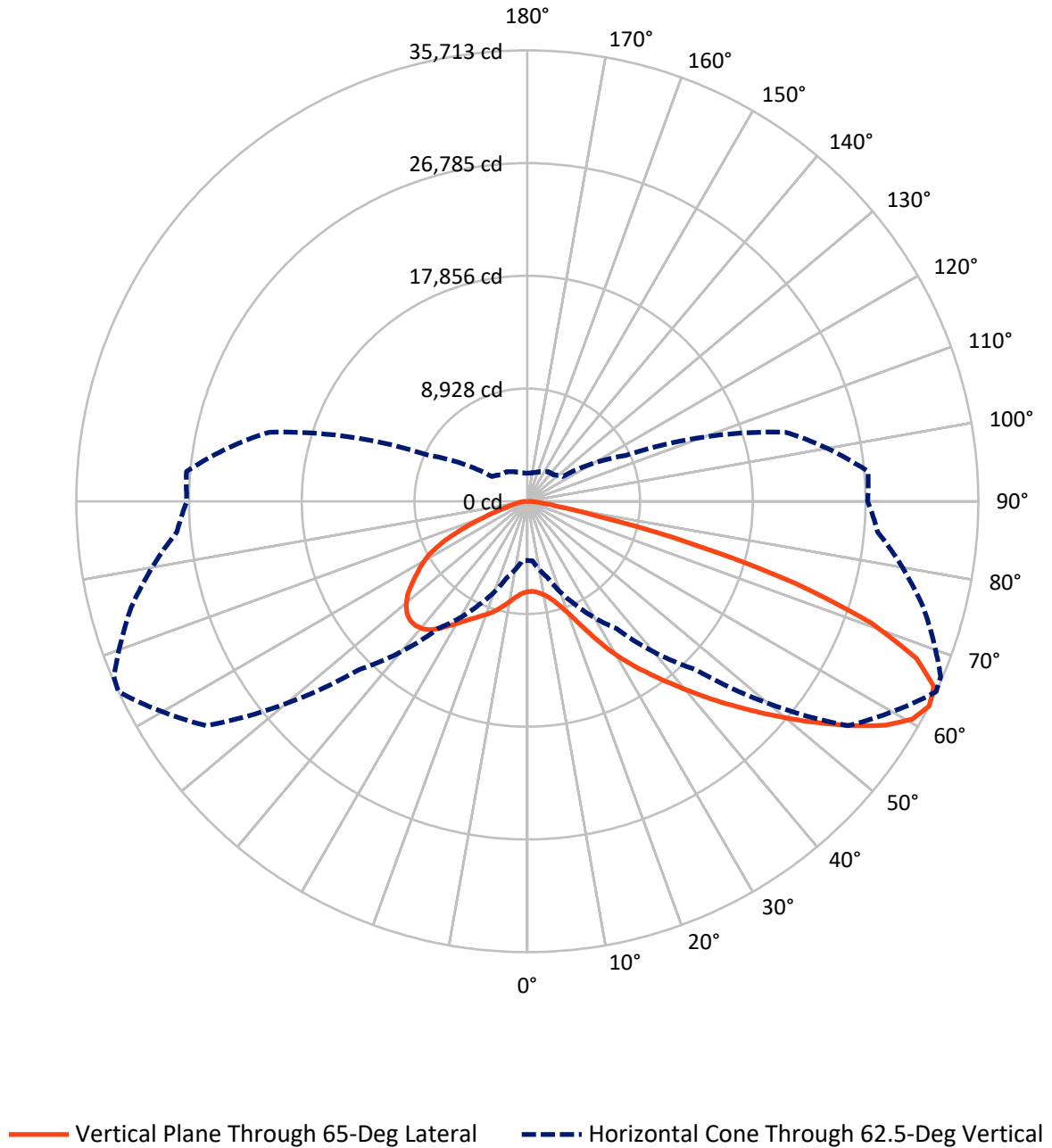
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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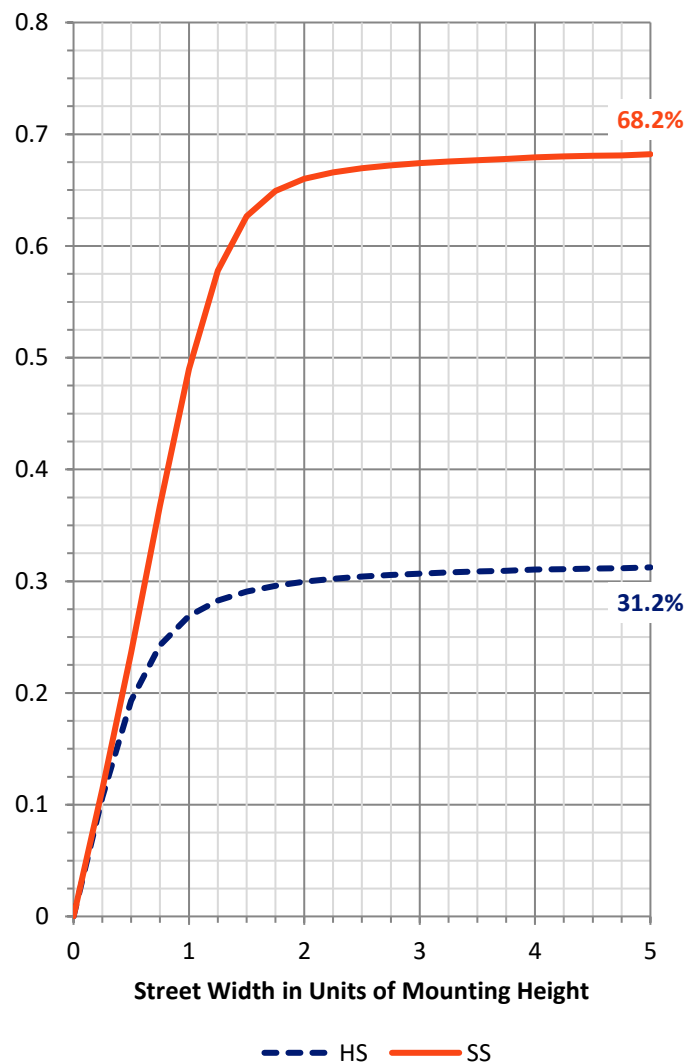
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 20488.1  | 0.0    | 20488.1 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 44438.9  | 0.0    | 44438.9 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 64927.0  | 0.0    | 64927.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 713.3   | 1.1       |
| 10°-20°   | 2418.9  | 3.7       |
| 20°-30°   | 4904.6  | 7.6       |
| 30°-40°   | 8487.3  | 13.1      |
| 40°-50°   | 12843.9 | 19.8      |
| 50°-60°   | 15058.7 | 23.2      |
| 60°-70°   | 12624.9 | 19.4      |
| 70°-80°   | 6970.0  | 10.7      |
| 80°-90°   | 905.4   | 1.4       |
| 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°    | 64927.0 | 100.0     |
| 0°-180°   | 64927.0 | 100.0     |

**Coefficient of Utilization**

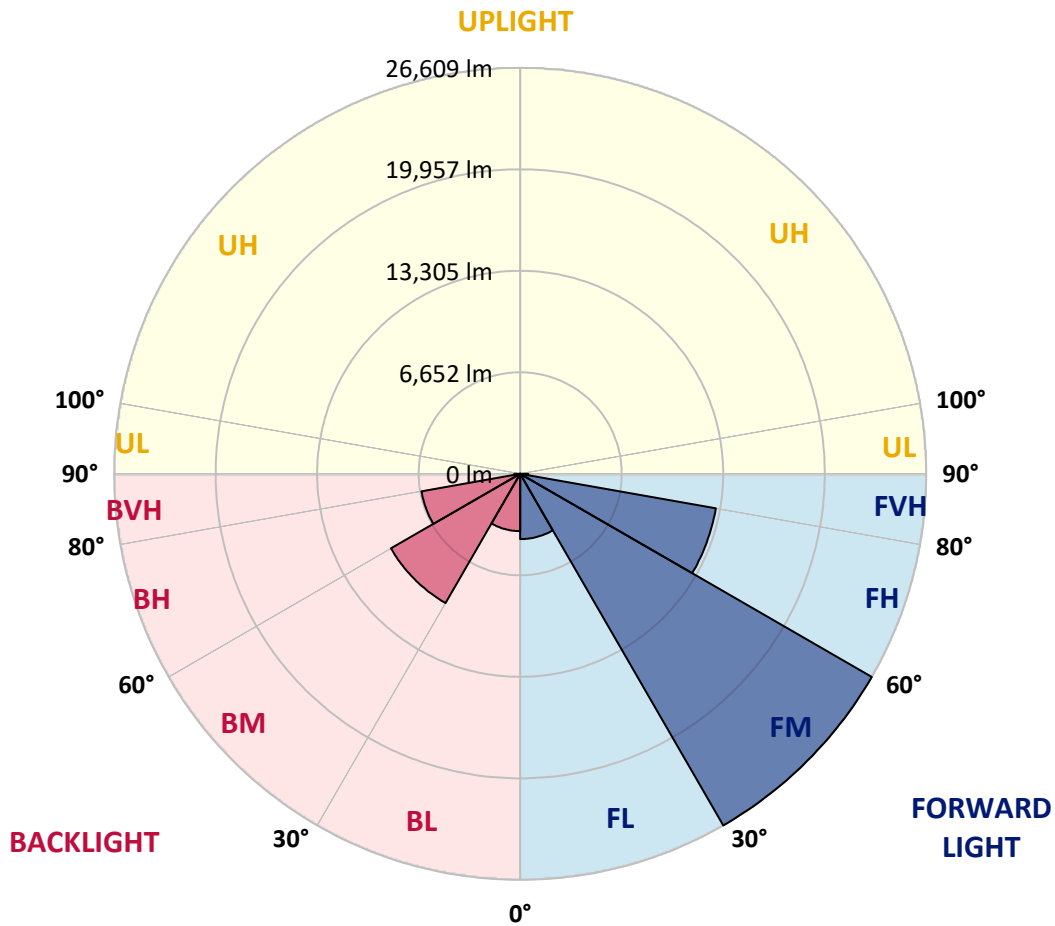


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 4279.5  | 6.6       |                         |      |        |
| FM (30°-60°)   | 26609.2 | 41.0      |                         |      |        |
| FH (60°-80°)   | 13022.4 | 20.1      |                         |      | G5     |
| FVH (80°-90°)  | 527.7   | 0.8       |                         |      | G4/750 |
| BL (0°-30°)    | 3757.3  | 5.8       | B4/5000                 |      |        |
| BM (30°-60°)   | 9780.7  | 15.1      | B5                      |      |        |
| BH (60°-80°)   | 6572.4  | 10.1      | B5                      |      | G5     |
| BVH (80°-90°)  | 377.7   | 0.6       |                         |      | G3/500 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7154.7  | 7154.7  | 7154.7  | 7154.7  | 7154.7  | 7154.7  | 7154.7  | 7154.7  | 7154.7  | 7154.7  |
| 2.5°  | 7107.5  | 7087.3  | 7104.1  | 7104.1  | 7110.9  | 7107.5  | 7131.1  | 7137.8  | 7147.9  | 7168.1  |
| 5°    | 7036.8  | 7033.4  | 7063.7  | 7090.7  | 7117.6  | 7141.2  | 7171.5  | 7215.3  | 7222.0  | 7245.6  |
| 7.5°  | 7013.2  | 6993.0  | 7040.1  | 7073.8  | 7137.8  | 7195.1  | 7275.9  | 7350.0  | 7380.4  | 7390.5  |
| 10°   | 7195.1  | 7161.4  | 7205.2  | 7225.4  | 7279.3  | 7336.6  | 7430.9  | 7548.8  | 7582.5  | 7622.9  |
| 12.5° | 7505.0  | 7467.9  | 7531.9  | 7562.3  | 7612.8  | 7663.3  | 7727.3  | 7841.8  | 7858.7  | 7932.8  |
| 15°   | 7929.4  | 7885.6  | 7926.1  | 7963.1  | 8047.3  | 8094.5  | 8158.5  | 8269.6  | 8269.6  | 8326.9  |
| 17.5° | 8505.4  | 8448.2  | 8478.5  | 8492.0  | 8545.9  | 8616.6  | 8724.4  | 8822.1  | 8872.6  | 8852.4  |
| 20°   | 9364.4  | 9293.7  | 9293.7  | 9226.3  | 9206.1  | 9263.3  | 9404.8  | 9539.6  | 9593.5  | 9489.0  |
| 22.5° | 10654.5 | 10553.5 | 10496.2 | 10267.2 | 10176.2 | 10182.9 | 10324.4 | 10489.5 | 10533.3 | 10348.0 |
| 25°   | 12295.0 | 12136.7 | 12059.2 | 11722.3 | 11516.9 | 11338.3 | 11449.5 | 11661.7 | 11722.3 | 11493.3 |
| 27.5° | 13935.4 | 13945.6 | 13871.4 | 13467.2 | 13127.0 | 12800.3 | 12743.0 | 12965.3 | 13029.3 | 12769.9 |
| 30°   | 16236.1 | 15997.0 | 15855.5 | 15370.4 | 14885.4 | 14427.2 | 14191.5 | 14282.4 | 14299.2 | 13989.3 |
| 32.5° | 18220.2 | 18159.5 | 17856.4 | 17431.9 | 16808.8 | 16091.3 | 15697.2 | 15552.3 | 15525.4 | 15084.1 |
| 35°   | 20480.4 | 20446.7 | 20126.7 | 19621.5 | 18947.8 | 17950.7 | 17239.9 | 16825.6 | 16791.9 | 16172.1 |
| 37.5° | 22777.7 | 22777.7 | 22464.5 | 21912.0 | 21214.8 | 19968.4 | 18887.1 | 18230.3 | 18122.5 | 17314.0 |
| 40°   | 24610.2 | 24499.0 | 24556.3 | 24323.9 | 23525.5 | 22201.7 | 20716.2 | 19762.9 | 19618.1 | 18648.0 |
| 42.5° | 25651.1 | 25614.0 | 25957.6 | 26217.0 | 25890.2 | 24832.5 | 22730.6 | 21423.6 | 21221.5 | 20116.6 |
| 45°   | 25883.5 | 25843.1 | 26456.1 | 27406.0 | 27864.2 | 27429.6 | 24920.1 | 23171.8 | 22925.9 | 21652.7 |
| 47.5° | 25347.9 | 25267.0 | 26166.4 | 27665.4 | 29134.1 | 29898.7 | 27291.5 | 25068.3 | 24711.2 | 23148.3 |
| 50°   | 23737.8 | 23660.3 | 25021.1 | 27011.9 | 29561.9 | 31576.2 | 29865.0 | 27079.3 | 26533.6 | 24751.7 |
| 52.5° | 20237.9 | 20274.9 | 22407.2 | 25142.4 | 28999.3 | 32620.5 | 32081.5 | 29198.1 | 28541.2 | 26392.1 |
| 55°   | 15764.5 | 15845.4 | 18466.1 | 21477.5 | 26749.2 | 32462.1 | 33594.0 | 31380.9 | 30727.4 | 27934.9 |
| 57.5° | 11287.8 | 11644.9 | 14100.5 | 17081.6 | 22427.4 | 29952.6 | 33924.1 | 33455.8 | 32822.6 | 29619.1 |
| 60°   | 7316.4  | 7380.4  | 9906.7  | 12911.4 | 17078.2 | 25492.7 | 33253.7 | 35028.9 | 34533.8 | 31337.1 |
| 62.5° | 4688.9  | 4732.7  | 6272.1  | 9030.9  | 12291.6 | 18860.2 | 30996.8 | 35712.7 | 35561.2 | 32472.2 |
| 65°   | 3446.0  | 3412.3  | 4214.0  | 5969.0  | 8279.7  | 11631.4 | 26614.4 | 35382.6 | 35682.4 | 33183.0 |
| 67.5° | 2876.7  | 2829.5  | 3223.6  | 4133.1  | 6100.3  | 6605.6  | 19692.2 | 33236.9 | 34335.0 | 33102.2 |
| 70°   | 2620.7  | 2580.3  | 2819.4  | 3068.7  | 4759.7  | 4422.8  | 9926.9  | 28894.9 | 30585.9 | 32182.6 |
| 72.5° | 2219.8  | 2149.1  | 2475.8  | 2725.1  | 3702.0  | 3392.1  | 4102.8  | 22195.0 | 24256.5 | 29235.1 |
| 75°   | 1721.3  | 1674.1  | 1953.7  | 2398.4  | 2782.4  | 2647.6  | 2593.7  | 13477.3 | 15727.5 | 22609.3 |
| 77.5° | 1364.2  | 1300.2  | 1556.2  | 1869.5  | 2502.8  | 1997.5  | 1889.7  | 5803.9  | 8033.8  | 14434.0 |
| 80°   | 1027.4  | 970.1   | 1182.3  | 1478.8  | 1923.4  | 1505.7  | 1222.8  | 2368.0  | 3028.3  | 7313.0  |
| 82.5° | 731.0   | 680.4   | 825.3   | 1084.7  | 1293.5  | 1350.8  | 751.2   | 1327.2  | 1492.2  | 2819.4  |
| 85°   | 468.2   | 437.9   | 552.4   | 680.4   | 821.9   | 869.1   | 458.1   | 693.9   | 761.3   | 1162.1  |
| 87.5° | 256.0   | 208.8   | 296.4   | 316.6   | 380.6   | 347.0   | 219.0   | 252.6   | 272.8   | 421.1   |
| 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°   |
|---------|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 7154.7  | 0°    | 7154.7  | 7154.7  | 7154.7  | 7154.7  | 7154.7 | 7154.7 | 7154.7 | 7154.7 | 7154.7 | 7154.7 |
| 7168.1  | 2.5°  | 7181.6  | 7191.7  | 7225.4  | 7235.5  | 7259.1 | 7289.4 | 7309.6 | 7329.8 | 7329.8 | 7350.0 |
| 7275.9  | 5°    | 7279.3  | 7302.9  | 7373.6  | 7410.7  | 7471.3 | 7531.9 | 7569.0 | 7612.8 | 7639.7 | 7653.2 |
| 7447.7  | 7.5°  | 7467.9  | 7505.0  | 7606.1  | 7670.1  | 7774.5 | 7858.7 | 7916.0 | 7976.6 | 7990.1 | 8027.1 |
| 7686.9  | 10°   | 7723.9  | 7767.7  | 7882.3  | 8003.5  | 8128.2 | 8232.6 | 8286.5 | 8330.3 | 8347.1 | 8353.9 |
| 7993.4  | 12.5° | 8017.0  | 8081.0  | 8229.2  | 8377.4  | 8508.8 | 8599.8 | 8613.2 | 8603.1 | 8556.0 | 8515.5 |
| 8370.7  | 15°   | 8377.4  | 8434.7  | 8599.8  | 8761.4  | 8889.4 | 8906.3 | 8822.1 | 8768.2 | 8710.9 | 8700.8 |
| 8791.8  | 17.5° | 8808.6  | 8838.9  | 8990.5  | 9148.8  | 9158.9 | 9101.7 | 8977.0 | 8926.5 | 8872.6 | 8835.6 |
| 9340.8  | 20°   | 9310.5  | 9300.4  | 9408.2  | 9475.6  | 9404.8 | 9229.7 | 9041.0 | 8956.8 | 8902.9 | 8859.1 |
| 10014.5 | 22.5° | 9910.1  | 9832.6  | 9819.1  | 9802.3  | 9613.7 | 9246.5 | 8990.5 | 8882.7 | 8798.5 | 8737.9 |
| 10954.3 | 25°   | 10782.5 | 10486.1 | 10280.6 | 10166.1 | 9741.7 | 9155.6 | 8828.8 | 8589.7 | 8431.3 | 8326.9 |
| 12103.0 | 27.5° | 11873.9 | 11375.4 | 10856.6 | 10577.1 | 9741.7 | 8970.3 | 8438.1 | 8050.7 | 7791.3 | 7683.5 |
| 13214.6 | 30°   | 12914.8 | 12392.7 | 11628.0 | 11072.2 | 9718.1 | 8667.1 | 7808.2 | 7269.2 | 6966.0 | 6858.2 |
| 14164.5 | 32.5° | 13804.1 | 13234.8 | 12446.6 | 11614.6 | 9660.8 | 8175.3 | 7026.7 | 6430.4 | 6137.4 | 6009.4 |
| 15104.3 | 35°   | 14629.4 | 14023.0 | 13268.5 | 12210.8 | 9509.2 | 7454.5 | 6167.7 | 5713.0 | 5386.2 | 5180.7 |
| 16061.0 | 37.5° | 15474.8 | 14754.0 | 14046.6 | 12749.7 | 9236.4 | 6612.3 | 5507.5 | 5120.1 | 4736.1 | 4459.9 |
| 17078.2 | 40°   | 16394.4 | 15532.1 | 14878.6 | 13069.7 | 8788.4 | 5810.6 | 4995.5 | 4641.8 | 4234.2 | 3941.1 |
| 18250.5 | 42.5° | 17469.0 | 16465.2 | 15805.0 | 13234.8 | 8175.3 | 5241.4 | 4662.0 | 4315.0 | 3931.0 | 3691.9 |
| 19506.9 | 45°   | 18590.7 | 17492.6 | 16650.4 | 13231.4 | 7491.5 | 4975.3 | 4554.2 | 4210.6 | 3786.2 | 3536.9 |
| 20797.1 | 47.5° | 19766.3 | 18567.1 | 17381.4 | 13015.8 | 6898.7 | 5012.3 | 4493.6 | 3984.9 | 3516.7 | 3274.2 |
| 22100.7 | 50°   | 20945.3 | 19742.7 | 18088.8 | 12611.6 | 6646.0 | 4931.5 | 4267.9 | 3668.3 | 3115.9 | 2896.9 |
| 23323.4 | 52.5° | 22114.1 | 20992.4 | 18698.5 | 12035.6 | 6390.0 | 4631.7 | 3978.2 | 3257.3 | 2950.8 | 2799.2 |
| 24586.6 | 55°   | 23289.7 | 22228.7 | 19362.1 | 11196.9 | 5750.0 | 4281.4 | 3493.1 | 3102.4 | 2819.4 | 2681.3 |
| 25822.8 | 57.5° | 24468.7 | 23656.9 | 19992.0 | 10358.1 | 4944.9 | 3850.2 | 3227.0 | 2913.7 | 2688.1 | 2570.2 |
| 26857.0 | 60°   | 25694.8 | 25290.6 | 20642.1 | 9586.7  | 4150.0 | 3297.8 | 3031.6 | 2762.2 | 2533.1 | 2401.7 |
| 27850.7 | 62.5° | 26958.0 | 27089.4 | 21150.8 | 8593.0  | 3419.0 | 2960.9 | 2856.5 | 2580.3 | 2357.9 | 2233.3 |
| 28672.6 | 65°   | 28231.3 | 28824.2 | 21484.2 | 7215.3  | 2772.3 | 2640.9 | 2667.8 | 2381.5 | 2155.8 | 2048.0 |
| 29275.6 | 67.5° | 29191.3 | 30073.9 | 21389.9 | 5460.3  | 2273.7 | 2337.7 | 2432.1 | 2172.7 | 1960.5 | 1876.2 |
| 29177.9 | 70°   | 29299.1 | 29925.7 | 20460.2 | 3739.0  | 1903.2 | 2041.3 | 2169.3 | 1967.2 | 1748.2 | 1687.6 |
| 27803.5 | 72.5° | 27864.2 | 27904.6 | 17869.8 | 2442.2  | 1610.1 | 1792.0 | 1893.1 | 1758.4 | 1546.1 | 1485.5 |
| 24323.9 | 75°   | 24101.5 | 23077.5 | 13120.3 | 1610.1  | 1347.4 | 1539.4 | 1633.7 | 1539.4 | 1333.9 | 1347.4 |
| 18200.0 | 77.5° | 18260.6 | 16343.9 | 7966.5  | 1145.3  | 1125.1 | 1293.5 | 1421.5 | 1354.1 | 1179.0 | 1323.8 |
| 9152.2  | 80°   | 9408.2  | 8842.3  | 3553.8  | 855.6   | 889.3  | 1034.1 | 1168.9 | 1081.3 | 933.1  | 889.3  |
| 2044.7  | 82.5° | 2155.8  | 2506.2  | 1401.3  | 613.1   | 643.4  | 744.4  | 892.6  | 811.8  | 670.3  | 565.9  |
| 852.2   | 85°   | 754.5   | 825.3   | 619.8   | 384.0   | 377.3  | 464.9  | 606.3  | 542.3  | 454.7  | 363.8  |
| 360.4   | 87.5° | 239.2   | 313.3   | 232.4   | 155.0   | 161.7  | 208.8  | 279.6  | 256.0  | 212.2  | 138.1  |
| 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°  
7154.7  
7350.0  
7659.9  
8013.6  
8337.0  
8515.5  
8700.8  
8838.9  
8862.5  
8758.1  
8367.3  
7737.4  
6922.2  
6073.4  
5248.1  
4534.0  
3998.4  
3739.0  
3577.3  
3307.9  
2910.4  
2799.2  
2667.8  
2549.9  
2391.6  
2229.9  
2044.7  
1879.6  
1691.0  
1482.1  
1300.2  
1165.5  
811.8  
559.2  
384.0  
144.8  
0.0

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