

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: P954504

Luminaire Tested: **GALN-SB7D-727-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P954504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7D-727-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 68370 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
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

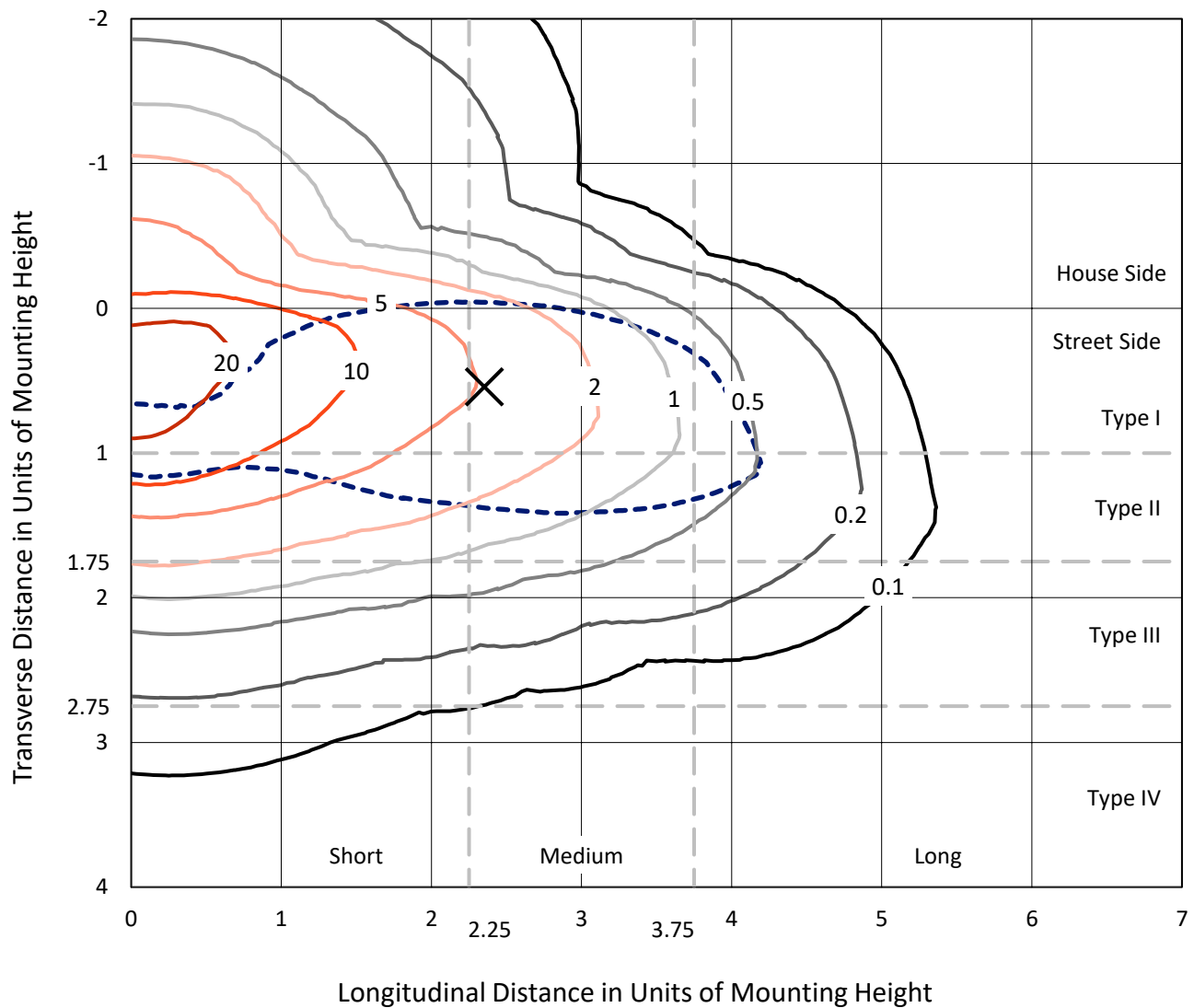


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## Iso-Footcandle Lines of Horizontal Illumination

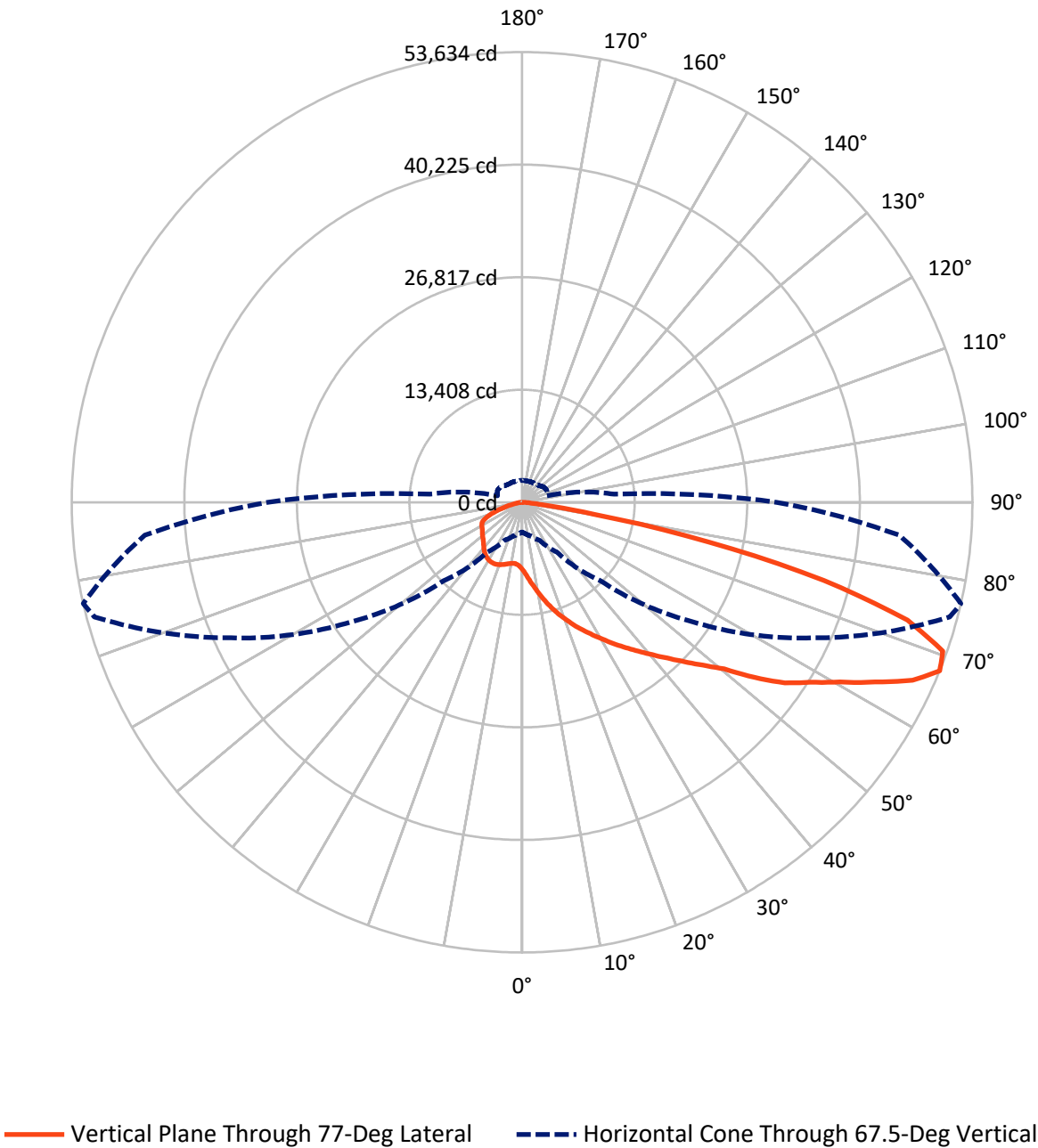
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 fc  
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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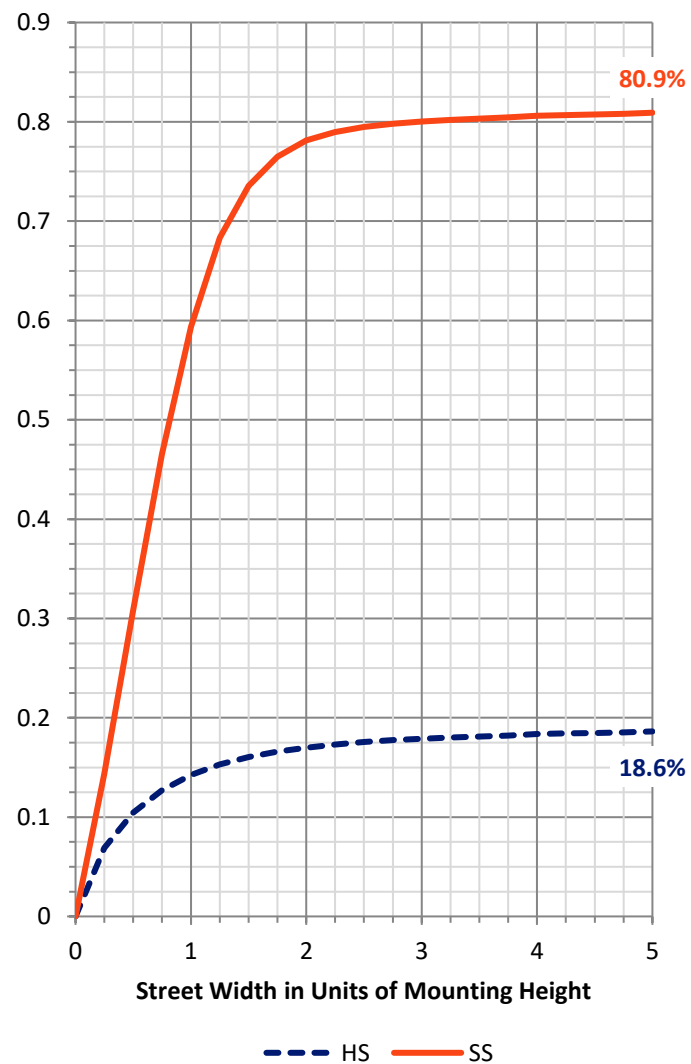
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12932.9  | 0.0    | 12932.9 |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 55437.1  | 0.0    | 55437.1 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 68370.0  | 0.0    | 68370.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 859.8   | 1.3       |
| 10°-20°   | 3089.1  | 4.5       |
| 20°-30°   | 5832.5  | 8.5       |
| 30°-40°   | 9396.0  | 13.7      |
| 40°-50°   | 12852.0 | 18.8      |
| 50°-60°   | 14497.2 | 21.2      |
| 60°-70°   | 13531.3 | 19.8      |
| 70°-80°   | 7417.4  | 10.8      |
| 80°-90°   | 894.7   | 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°    | 68370.0 | 100.0     |
| 0°-180°   | 68370.0 | 100.0     |

**Coefficient of Utilization**



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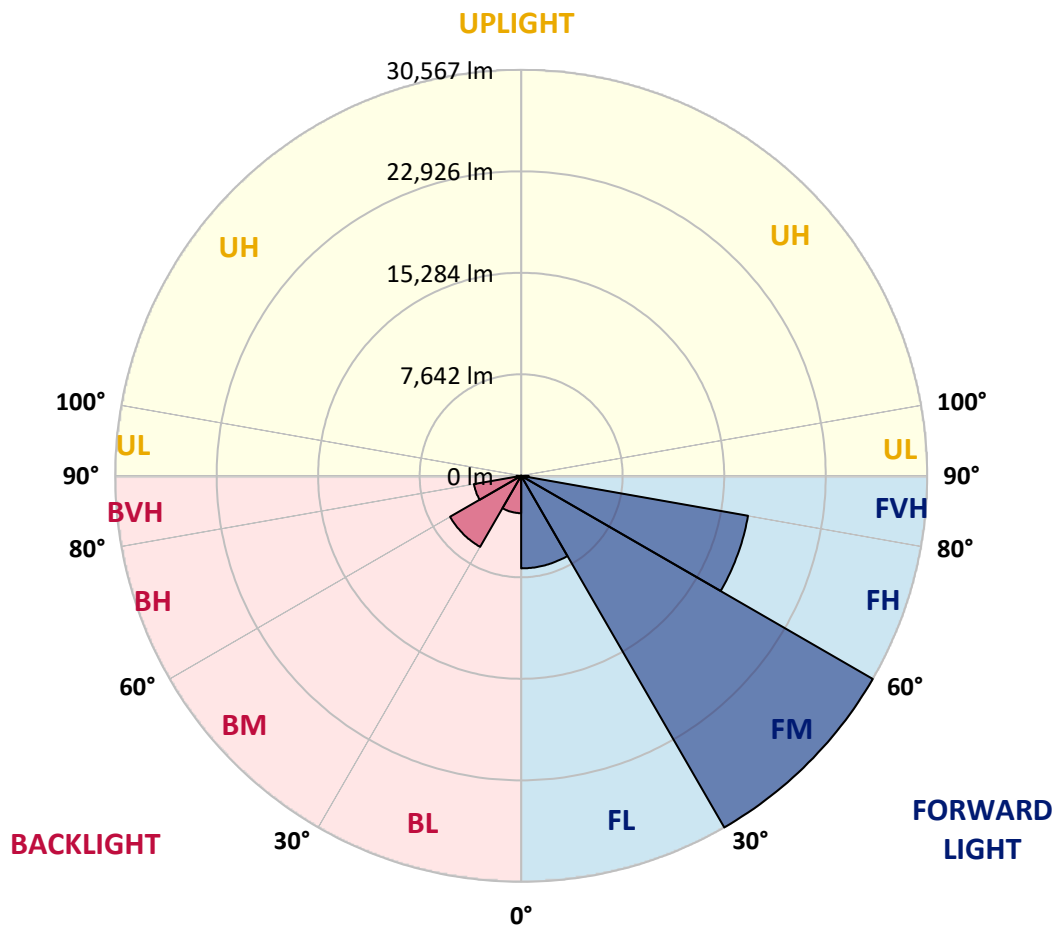
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6969.5  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 30567.5 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 17340.7 | 25.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 559.5   | 0.8       |                         |      | G4/750  |
| BL   | (0°-30°)    | 2811.9  | 4.1       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6177.7  | 9.0       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3608.1  | 5.3       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 335.2   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8021.9  | 8021.9  | 8021.9  | 8021.9  | 8021.9  | 8021.9  | 8021.9  | 8021.9  | 8021.9  | 8021.9  | 8021.9  |
| 2.5°  | 10044.2 | 10114.8 | 10026.5 | 10026.5 | 9730.1  | 9574.8  | 9278.3  | 9052.5  | 8646.6  | 8576.0  | 8307.8  |
| 5°    | 11872.3 | 11960.5 | 11837.0 | 11784.1 | 11434.7 | 11113.5 | 10615.9 | 10125.3 | 9401.9  | 9327.7  | 8696.0  |
| 7.5°  | 13287.5 | 13400.5 | 13291.1 | 13234.6 | 12924.0 | 12564.0 | 11981.7 | 11297.0 | 10277.1 | 10132.4 | 9218.3  |
| 10°   | 14441.6 | 14459.2 | 14423.9 | 14445.1 | 14201.6 | 13905.1 | 13308.7 | 12511.1 | 11237.0 | 11039.4 | 9850.1  |
| 12.5° | 15094.5 | 15175.7 | 15246.2 | 15373.3 | 15330.9 | 15147.4 | 14611.0 | 13658.1 | 12253.5 | 11999.4 | 10538.3 |
| 15°   | 15401.5 | 15542.7 | 15701.5 | 15994.4 | 16230.9 | 16276.8 | 15867.4 | 14889.8 | 13287.5 | 12980.5 | 11233.5 |
| 17.5° | 15510.9 | 15645.0 | 15895.6 | 16319.1 | 16827.3 | 17169.7 | 16986.2 | 16086.2 | 14311.0 | 13958.1 | 11964.1 |
| 20°   | 16065.0 | 16103.8 | 16255.6 | 16657.9 | 17208.5 | 17776.7 | 17914.3 | 17236.7 | 15323.9 | 14925.1 | 12719.3 |
| 22.5° | 17250.8 | 17173.2 | 17215.6 | 17399.1 | 17794.3 | 18344.9 | 18659.0 | 18253.1 | 16365.0 | 15906.2 | 13481.6 |
| 25°   | 19209.6 | 18983.7 | 18757.8 | 18546.1 | 18747.2 | 19057.8 | 19414.3 | 19269.6 | 17455.5 | 16873.2 | 14251.0 |
| 27.5° | 21683.5 | 21408.3 | 20910.6 | 20215.4 | 19971.9 | 20081.3 | 20240.1 | 20211.9 | 18464.9 | 17875.5 | 15045.1 |
| 30°   | 24118.7 | 23797.6 | 23204.6 | 22198.8 | 21556.5 | 21267.1 | 21147.1 | 21065.9 | 19562.5 | 18934.3 | 15846.2 |
| 32.5° | 26063.3 | 25809.2 | 25226.9 | 24101.1 | 23169.4 | 22675.3 | 22276.5 | 21987.1 | 20709.5 | 20081.3 | 16693.2 |
| 35°   | 27764.4 | 27527.9 | 26860.9 | 25632.8 | 24619.9 | 24094.0 | 23571.7 | 22954.1 | 21902.4 | 21267.1 | 17603.8 |
| 37.5° | 29317.3 | 29080.8 | 28166.7 | 26889.2 | 25869.2 | 25505.7 | 25039.8 | 23991.7 | 23098.8 | 22498.8 | 18567.2 |
| 40°   | 30298.4 | 30245.4 | 29391.4 | 27944.4 | 26885.6 | 26705.6 | 26550.3 | 25195.1 | 24425.8 | 23868.1 | 19626.0 |
| 42.5° | 30549.0 | 30665.4 | 29987.8 | 28798.5 | 27789.1 | 27644.4 | 28007.9 | 26557.4 | 25915.1 | 25382.2 | 20825.9 |
| 45°   | 29945.5 | 30280.7 | 29836.1 | 29027.9 | 28431.4 | 28353.8 | 29299.6 | 28046.7 | 27563.2 | 27076.2 | 22272.9 |
| 47.5° | 28417.3 | 28985.5 | 28802.0 | 28689.1 | 28604.4 | 28939.6 | 30436.0 | 29627.8 | 29430.2 | 29006.7 | 23924.6 |
| 50°   | 25332.8 | 26409.2 | 26730.3 | 27443.2 | 28262.0 | 29394.9 | 31470.1 | 31353.6 | 31611.3 | 31184.2 | 25936.3 |
| 52.5° | 20000.1 | 21482.4 | 23345.8 | 25131.6 | 27210.3 | 29243.1 | 32606.5 | 33831.1 | 34918.1 | 34685.2 | 29133.7 |
| 55°   | 16509.7 | 17176.7 | 18609.6 | 21884.7 | 25170.4 | 28604.4 | 33118.2 | 35832.2 | 38200.3 | 37992.1 | 31558.3 |
| 57.5° | 13827.5 | 14423.9 | 15306.2 | 18041.4 | 22085.9 | 27153.8 | 33435.9 | 37053.3 | 40448.4 | 40427.3 | 33951.1 |
| 60°   | 10951.2 | 11582.9 | 12486.4 | 14423.9 | 18482.5 | 24648.1 | 33365.3 | 38443.8 | 43317.7 | 43494.2 | 36869.8 |
| 62.5° | 7704.3  | 8399.6  | 9401.9  | 11208.8 | 14801.6 | 21401.2 | 31925.4 | 39449.7 | 46695.2 | 47175.1 | 40381.4 |
| 65°   | 5064.4  | 5523.2  | 6278.5  | 7838.4  | 11028.8 | 17226.1 | 29176.1 | 39580.2 | 50309.1 | 51120.8 | 43677.7 |
| 67.5° | 3550.4  | 3726.9  | 4171.5  | 5018.6  | 7270.2  | 13209.9 | 24796.3 | 38228.5 | 52719.5 | 53633.6 | 45107.0 |
| 70°   | 2770.4  | 2858.7  | 3084.5  | 3423.3  | 4566.8  | 8883.1  | 19001.3 | 34713.4 | 52204.3 | 53157.2 | 43614.1 |
| 72.5° | 2392.8  | 2477.5  | 2562.2  | 2604.6  | 3063.4  | 5484.4  | 12871.1 | 29024.3 | 47351.6 | 47997.4 | 37921.5 |
| 75°   | 2170.5  | 2191.6  | 2262.2  | 2248.1  | 2336.3  | 3557.5  | 7429.0  | 21147.1 | 37360.4 | 37138.0 | 27993.8 |
| 77.5° | 1824.6  | 1852.8  | 1969.3  | 1951.7  | 2075.2  | 2431.6  | 3857.4  | 13647.5 | 24221.1 | 22710.6 | 15581.5 |
| 80°   | 1545.8  | 1559.9  | 1687.0  | 1665.8  | 1803.4  | 1761.1  | 1969.3  | 6956.1  | 10273.6 | 8703.1  | 4492.7  |
| 82.5° | 536.4   | 663.5   | 1288.2  | 1327.0  | 1376.4  | 1065.8  | 1136.4  | 2837.5  | 3137.5  | 2403.4  | 942.3   |
| 85°   | 261.2   | 278.8   | 656.4   | 931.7   | 928.2   | 536.4   | 554.1   | 1012.9  | 988.2   | 776.4   | 314.1   |
| 87.5° | 42.4    | 52.9    | 77.6    | 363.5   | 289.4   | 141.2   | 190.6   | 197.6   | 204.7   | 176.5   | 70.6    |
| 90°   | 0.0     | 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8021.9  | 8021.9  | 8021.9 | 8021.9 | 8021.9 | 8021.9 | 8021.9 | 8021.9 | 8021.9 | 8021.9 | 8021.9 |
| 2.5°  | 8110.2  | 7933.7  | 7563.1 | 7220.8 | 6952.6 | 6694.9 | 6550.2 | 6426.7 | 6356.1 | 6342.0 | 6342.0 |
| 5°    | 8329.0  | 7965.5  | 7291.4 | 6723.2 | 6352.6 | 6077.3 | 5932.6 | 5840.9 | 5795.0 | 5766.8 | 5763.2 |
| 7.5°  | 8643.1  | 8110.2  | 7150.2 | 6504.4 | 6116.1 | 5918.5 | 5844.4 | 5830.3 | 5826.7 | 5830.3 | 5840.9 |
| 10°   | 9077.2  | 8346.6  | 7136.1 | 6451.4 | 6126.7 | 6017.3 | 6013.8 | 6017.3 | 6031.4 | 6035.0 | 6038.5 |
| 12.5° | 9546.5  | 8590.1  | 7192.6 | 6497.3 | 6260.8 | 6200.8 | 6190.3 | 6186.7 | 6197.3 | 6204.4 | 6207.9 |
| 15°   | 10058.3 | 8911.3  | 7287.8 | 6596.1 | 6409.1 | 6345.5 | 6335.0 | 6313.8 | 6310.3 | 6306.7 | 6303.2 |
| 17.5° | 10584.1 | 9228.9  | 7393.7 | 6702.0 | 6504.4 | 6416.1 | 6377.3 | 6327.9 | 6289.1 | 6278.5 | 6289.1 |
| 20°   | 11117.1 | 9543.0  | 7467.8 | 6754.9 | 6511.4 | 6387.9 | 6310.3 | 6225.6 | 6158.5 | 6119.7 | 6133.8 |
| 22.5° | 11685.3 | 9871.2  | 7513.7 | 6740.8 | 6447.9 | 6278.5 | 6137.3 | 6038.5 | 5936.2 | 5869.1 | 5872.6 |
| 25°   | 12239.3 | 10157.1 | 7510.2 | 6666.7 | 6324.4 | 6109.1 | 5929.1 | 5802.0 | 5660.9 | 5590.3 | 5590.3 |
| 27.5° | 12772.3 | 10414.7 | 7422.0 | 6536.1 | 6147.9 | 5907.9 | 5692.6 | 5540.9 | 5403.2 | 5336.2 | 5332.7 |
| 30°   | 13322.8 | 10630.0 | 7284.3 | 6345.5 | 5939.7 | 5675.0 | 5438.5 | 5308.0 | 5184.4 | 5120.9 | 5117.4 |
| 32.5° | 13869.8 | 10827.7 | 7090.2 | 6109.1 | 5699.7 | 5445.6 | 5212.7 | 5092.7 | 5018.6 | 5018.6 | 5022.1 |
| 35°   | 14448.6 | 10965.3 | 6832.6 | 5833.8 | 5445.6 | 5202.1 | 5018.6 | 4948.0 | 4940.9 | 4898.6 | 4888.0 |
| 37.5° | 15059.2 | 11053.5 | 6518.5 | 5551.5 | 5195.0 | 4965.6 | 4909.1 | 4824.4 | 4753.9 | 4662.1 | 4648.0 |
| 40°   | 15701.5 | 11141.8 | 6140.8 | 5258.5 | 4930.3 | 4803.3 | 4778.6 | 4665.6 | 4464.5 | 4238.6 | 4206.8 |
| 42.5° | 16481.5 | 11201.8 | 5749.1 | 4965.6 | 4651.5 | 4609.2 | 4644.5 | 4450.4 | 4129.2 | 3959.8 | 3963.3 |
| 45°   | 17385.0 | 11300.6 | 5389.1 | 4676.2 | 4365.6 | 4365.6 | 4513.9 | 4259.8 | 3995.1 | 3889.2 | 3906.9 |
| 47.5° | 18556.7 | 11530.0 | 5053.8 | 4358.6 | 4101.0 | 4171.5 | 4224.5 | 4030.4 | 3882.1 | 3751.6 | 3748.0 |
| 50°   | 20250.7 | 12080.5 | 4708.0 | 4037.4 | 3899.8 | 4041.0 | 3966.8 | 3853.9 | 3681.0 | 3575.1 | 3564.5 |
| 52.5° | 22354.1 | 12405.2 | 4400.9 | 3748.0 | 3726.9 | 3868.0 | 3762.2 | 3656.3 | 3525.7 | 3384.5 | 3356.3 |
| 55°   | 23787.0 | 12465.2 | 4143.3 | 3536.3 | 3610.4 | 3596.3 | 3557.5 | 3462.2 | 3391.6 | 3204.5 | 3208.1 |
| 57.5° | 25389.2 | 12585.2 | 3931.6 | 3409.2 | 3536.3 | 3381.0 | 3366.9 | 3285.7 | 3193.9 | 3066.9 | 3024.5 |
| 60°   | 27305.6 | 12772.3 | 3748.0 | 3359.8 | 3472.8 | 3239.8 | 3169.2 | 3137.5 | 3045.7 | 2982.2 | 2999.8 |
| 62.5° | 29394.9 | 12941.7 | 3561.0 | 3366.9 | 3398.6 | 3102.2 | 2996.3 | 2985.7 | 2929.3 | 2908.1 | 2908.1 |
| 65°   | 30820.7 | 12479.3 | 3328.1 | 3359.8 | 3282.2 | 2961.0 | 2826.9 | 2823.4 | 2777.5 | 2770.4 | 2766.9 |
| 67.5° | 30323.1 | 11014.7 | 3014.0 | 3261.0 | 3162.2 | 2819.8 | 2671.6 | 2657.5 | 2597.5 | 2601.0 | 2601.0 |
| 70°   | 27831.5 | 8925.4  | 2579.9 | 3017.5 | 3014.0 | 2692.8 | 2509.3 | 2463.4 | 2382.2 | 2396.3 | 2410.5 |
| 72.5° | 23158.8 | 6613.8  | 1997.5 | 2611.6 | 2777.5 | 2576.3 | 2322.2 | 2248.1 | 2145.8 | 2159.9 | 2156.4 |
| 75°   | 16725.0 | 4496.2  | 1454.0 | 1987.0 | 2417.5 | 2438.7 | 2138.7 | 2011.7 | 1888.1 | 1909.3 | 1916.4 |
| 77.5° | 8558.4  | 2548.1  | 1069.4 | 1369.3 | 1898.7 | 2216.4 | 1972.8 | 1803.4 | 1775.2 | 1972.8 | 1944.6 |
| 80°   | 2791.6  | 1277.6  | 741.1  | 959.9  | 1245.8 | 1814.0 | 1729.3 | 1535.2 | 1528.2 | 1574.0 | 1351.7 |
| 82.5° | 832.9   | 540.0   | 476.4  | 631.7  | 688.2  | 1390.5 | 1492.9 | 1161.1 | 998.8  | 1051.7 | 1087.0 |
| 85°   | 285.9   | 261.2   | 271.8  | 314.1  | 328.2  | 815.3  | 1044.7 | 769.4  | 727.0  | 801.1  | 790.5  |
| 87.5° | 67.1    | 91.8    | 77.6   | 70.6   | 70.6   | 197.6  | 405.9  | 321.2  | 444.7  | 296.5  | 285.9  |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)