

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: P951673

Luminaire Tested: **GALN-SB5D-730-U-T3R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P951673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-730-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 52771 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - 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

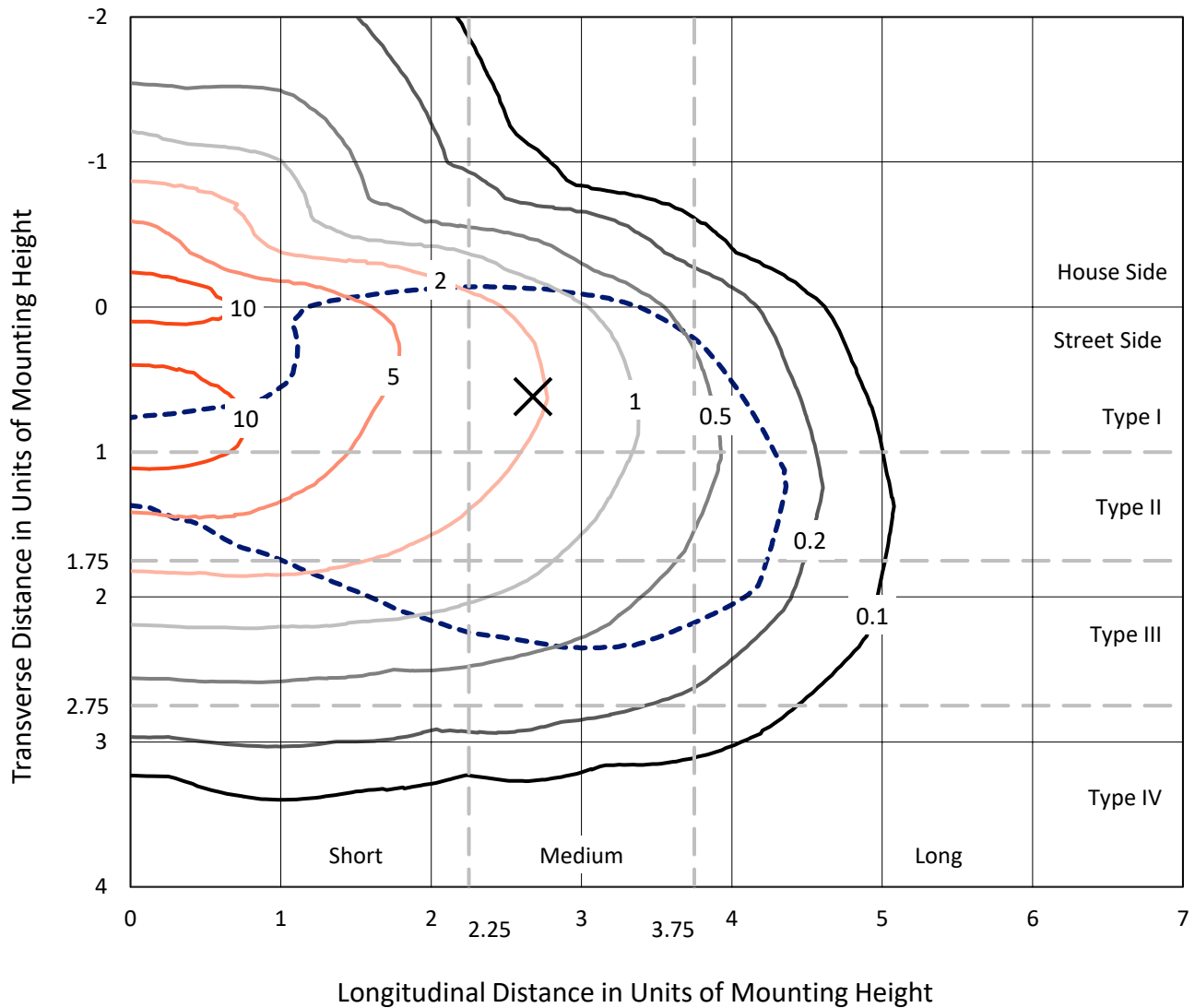


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

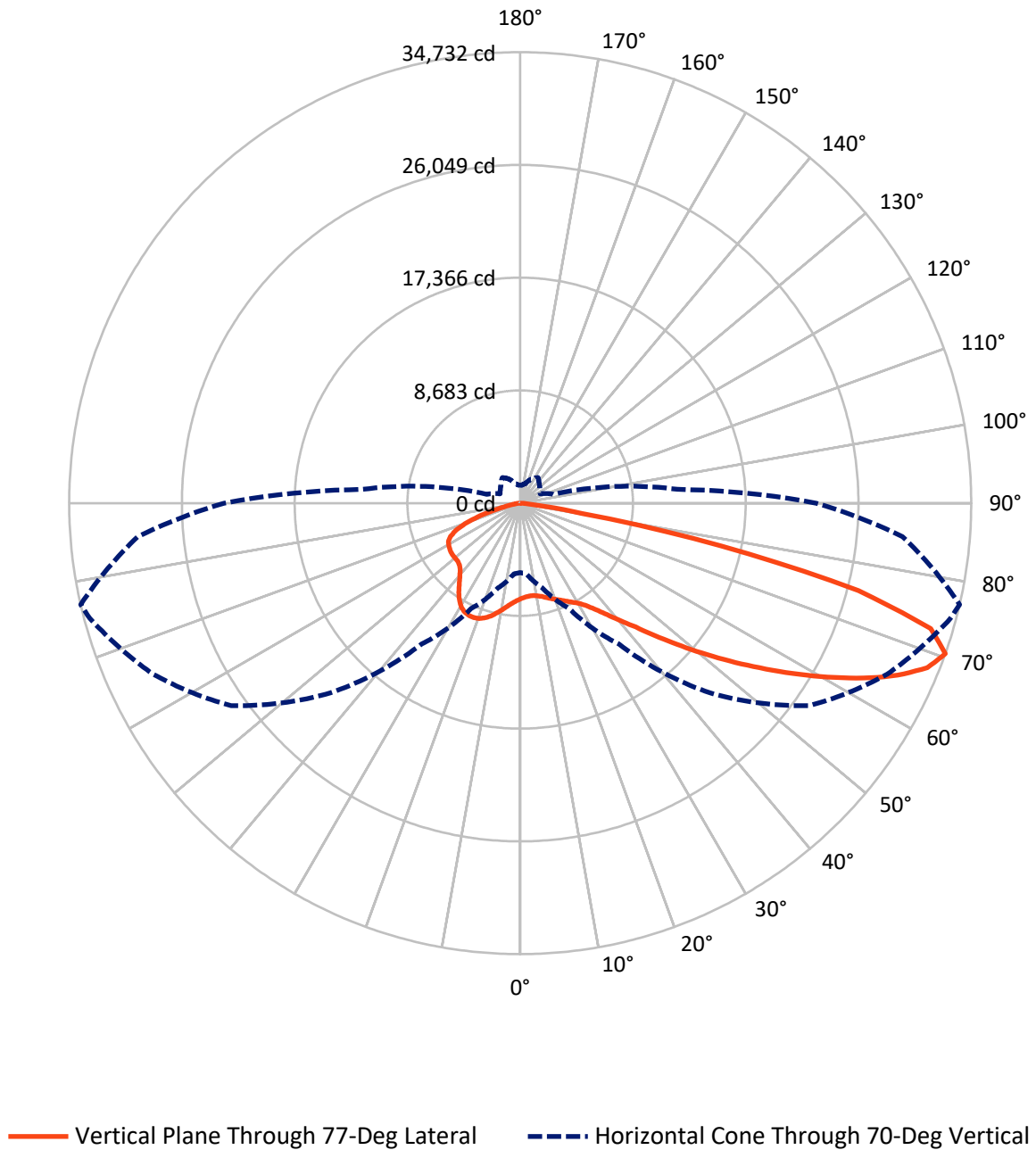


Based on 25 foot mounting height. Maximum calculated value = 14 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11556.0  | 0.0    | 11556.0 |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 41215.0  | 0.0    | 41215.0 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 52771.0  | 0.0    | 52771.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 702.1   | 1.3       |
| 10°-20°   | 2026.5  | 3.8       |
| 20°-30°   | 3465.5  | 6.6       |
| 30°-40°   | 5572.9  | 10.6      |
| 40°-50°   | 8700.7  | 16.5      |
| 50°-60°   | 11622.1 | 22.0      |
| 60°-70°   | 12387.4 | 23.5      |
| 70°-80°   | 7625.6  | 14.5      |
| 80°-90°   | 668.2   | 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°    | 52771.0 | 100.0     |
| 0°-180°   | 52771.0 | 100.0     |

**Coefficient of Utilization**



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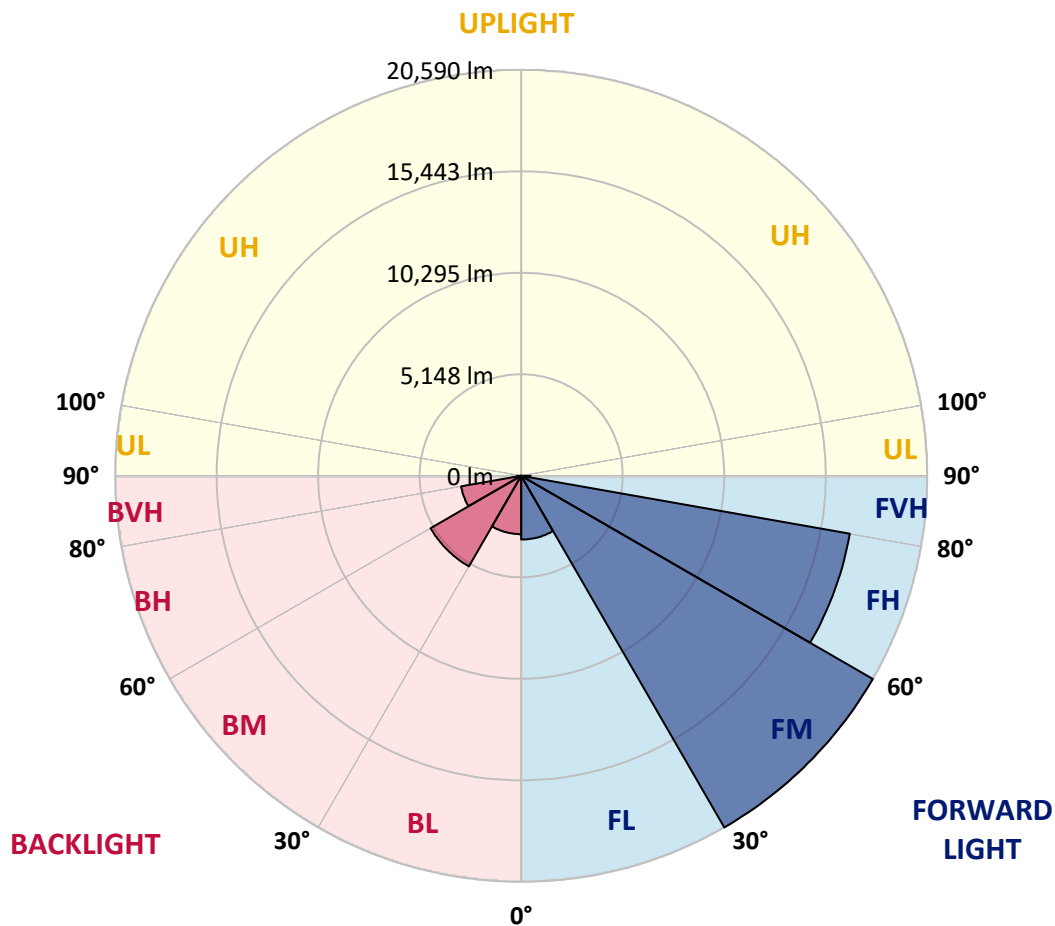
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3233.1  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 20590.1 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 16924.5 | 32.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 467.2   | 0.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2961.0  | 5.6       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5305.6  | 10.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3088.4  | 5.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 201.0   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7362.0  | 7362.0  | 7362.0  | 7362.0  | 7362.0  | 7362.0  | 7362.0  | 7362.0  | 7362.0  | 7362.0  | 7362.0  |
| 2.5°  | 6786.4  | 6783.7  | 6818.8  | 6829.6  | 6894.5  | 6940.4  | 7026.9  | 7118.8  | 7237.7  | 7251.2  | 7324.2  |
| 5°    | 6394.5  | 6394.5  | 6435.0  | 6478.3  | 6562.0  | 6653.9  | 6786.4  | 6945.8  | 7151.2  | 7183.7  | 7364.7  |
| 7.5°  | 6062.1  | 6083.7  | 6118.8  | 6202.6  | 6299.9  | 6432.3  | 6635.0  | 6862.0  | 7132.3  | 7183.7  | 7475.5  |
| 10°   | 5794.5  | 5818.8  | 5862.1  | 5929.6  | 6075.6  | 6259.4  | 6524.2  | 6816.1  | 7178.3  | 7259.3  | 7637.7  |
| 12.5° | 5710.7  | 5735.0  | 5759.4  | 5810.7  | 5945.8  | 6162.1  | 6478.3  | 6837.7  | 7289.1  | 7370.1  | 7859.3  |
| 15°   | 5905.3  | 5935.0  | 5916.1  | 5902.6  | 5972.9  | 6170.2  | 6499.9  | 6916.1  | 7426.9  | 7543.1  | 8132.3  |
| 17.5° | 6353.9  | 6364.8  | 6321.5  | 6194.5  | 6183.7  | 6289.1  | 6602.6  | 7024.2  | 7599.9  | 7726.9  | 8408.0  |
| 20°   | 7078.3  | 7059.3  | 6970.2  | 6718.8  | 6575.6  | 6553.9  | 6778.3  | 7186.4  | 7778.2  | 7913.4  | 8705.3  |
| 22.5° | 8062.0  | 8040.4  | 7862.0  | 7464.7  | 7145.8  | 6935.0  | 7032.3  | 7397.2  | 7978.2  | 8129.6  | 8994.4  |
| 25°   | 9289.0  | 9259.3  | 8997.1  | 8456.6  | 7962.0  | 7440.4  | 7378.3  | 7675.5  | 8224.2  | 8364.7  | 9297.1  |
| 27.5° | 10721.4 | 10697.1 | 10413.3 | 9699.8  | 8986.3  | 8132.3  | 7808.0  | 8002.6  | 8480.9  | 8640.4  | 9637.7  |
| 30°   | 12262.0 | 12332.2 | 11829.5 | 11062.0 | 10159.3 | 9035.0  | 8386.3  | 8405.3  | 8813.4  | 8956.6  | 10051.2 |
| 32.5° | 14072.7 | 14194.4 | 13589.0 | 12616.0 | 11383.6 | 10016.0 | 9116.1  | 8967.4  | 9297.1  | 9416.1  | 10572.8 |
| 35°   | 15867.3 | 16005.1 | 15502.4 | 14426.8 | 13007.9 | 11172.8 | 9878.2  | 9613.3  | 9940.4  | 10070.1 | 11264.7 |
| 37.5° | 17418.6 | 17602.4 | 17342.9 | 16407.8 | 14745.7 | 12567.4 | 10872.8 | 10372.8 | 10732.2 | 10894.4 | 12194.4 |
| 40°   | 18642.9 | 18924.0 | 18905.1 | 18321.3 | 16794.3 | 14259.2 | 12134.9 | 11310.6 | 11716.0 | 11891.7 | 13321.4 |
| 42.5° | 19637.5 | 19880.7 | 20091.5 | 20061.8 | 18932.1 | 16180.8 | 13618.7 | 12529.5 | 12837.6 | 13040.3 | 14588.9 |
| 45°   | 20324.0 | 20583.4 | 21037.5 | 21526.7 | 20988.8 | 18237.5 | 15318.7 | 13975.4 | 14256.5 | 14561.9 | 16099.7 |
| 47.5° | 20937.5 | 21232.1 | 21821.2 | 22596.9 | 22734.7 | 20302.4 | 17180.8 | 15659.2 | 15915.9 | 16232.2 | 17615.9 |
| 50°   | 20991.5 | 21245.6 | 22159.1 | 23259.1 | 23975.3 | 22286.1 | 19180.8 | 17548.3 | 17788.9 | 18126.7 | 19240.2 |
| 52.5° | 19686.1 | 20086.1 | 21680.7 | 23240.1 | 24545.5 | 23945.5 | 21167.2 | 19513.2 | 19783.4 | 20188.8 | 20921.3 |
| 55°   | 15280.8 | 15867.3 | 20278.0 | 22515.8 | 24342.8 | 25018.5 | 23056.4 | 21602.3 | 21948.3 | 22372.6 | 22613.1 |
| 57.5° | 13161.9 | 13418.7 | 16097.0 | 21196.9 | 23418.5 | 25296.9 | 24650.9 | 23713.1 | 24269.9 | 24734.7 | 24402.3 |
| 60°   | 11829.5 | 12043.0 | 13626.8 | 19145.6 | 22202.3 | 24856.3 | 25883.3 | 25680.6 | 26642.8 | 27196.8 | 26232.0 |
| 62.5° | 10402.5 | 10605.2 | 12045.7 | 15986.2 | 20645.6 | 24123.9 | 26661.7 | 27496.8 | 29075.2 | 29680.6 | 27956.3 |
| 65°   | 8986.3  | 9159.3  | 10540.4 | 13432.2 | 18667.2 | 23391.5 | 27064.4 | 29067.1 | 31326.5 | 31953.5 | 29388.7 |
| 67.5° | 7408.0  | 7551.2  | 8856.6  | 11332.2 | 16261.9 | 22388.8 | 27264.4 | 30302.2 | 33285.9 | 33823.7 | 30096.8 |
| 70°   | 5345.9  | 5456.7  | 6805.3  | 8962.0  | 13243.0 | 20664.5 | 27183.3 | 31177.8 | 34302.1 | 34731.8 | 29561.7 |
| 72.5° | 2527.0  | 2627.0  | 4210.7  | 5818.8  | 9353.9  | 17307.8 | 25542.8 | 30483.3 | 33269.7 | 33056.2 | 26286.0 |
| 75°   | 1348.6  | 1435.1  | 2418.9  | 3191.8  | 4940.5  | 11864.7 | 20902.3 | 26259.0 | 27937.4 | 26899.5 | 19426.7 |
| 77.5° | 913.5   | 981.1   | 1497.3  | 1916.2  | 2256.7  | 5632.3  | 13434.9 | 18180.8 | 17491.6 | 15778.1 | 9729.6  |
| 80°   | 724.3   | 794.6   | 1227.0  | 1297.3  | 1091.9  | 2035.1  | 5551.3  | 8416.1  | 6045.8  | 4835.1  | 2767.5  |
| 82.5° | 556.7   | 635.1   | 1032.4  | 940.5   | 594.6   | 835.1   | 1616.2  | 2662.1  | 1548.6  | 1178.4  | 670.3   |
| 85°   | 340.5   | 424.3   | 810.8   | 600.0   | 335.1   | 381.1   | 548.6   | 740.5   | 473.0   | 394.6   | 240.5   |
| 87.5° | 173.0   | 243.2   | 410.8   | 218.9   | 151.3   | 89.2    | 145.9   | 145.9   | 124.3   | 108.1   | 62.2    |
| 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°    | 7362.0  | 7362.0  | 7362.0 | 7362.0 | 7362.0 | 7362.0 | 7362.0 | 7362.0 | 7362.0 | 7362.0 | 7362.0 |
| 2.5°  | 7389.1  | 7443.1  | 7535.0 | 7621.5 | 7689.1 | 7753.9 | 7818.8 | 7853.9 | 7864.7 | 7908.0 | 7932.3 |
| 5°    | 7475.5  | 7575.5  | 7753.9 | 7921.5 | 8026.9 | 8091.8 | 8137.7 | 8164.7 | 8170.1 | 8183.6 | 8205.3 |
| 7.5°  | 7635.0  | 7794.5  | 8043.1 | 8210.7 | 8289.0 | 8283.6 | 8264.7 | 8197.2 | 8170.1 | 8145.8 | 8151.2 |
| 10°   | 7859.3  | 8070.1  | 8375.5 | 8491.7 | 8443.1 | 8313.4 | 8145.8 | 7948.5 | 7856.6 | 7767.4 | 7740.4 |
| 12.5° | 8137.7  | 8405.3  | 8705.3 | 8699.9 | 8459.3 | 8126.9 | 7737.7 | 7435.0 | 7243.1 | 7105.3 | 7072.9 |
| 15°   | 8475.5  | 8783.6  | 9013.4 | 8829.6 | 8302.6 | 7705.3 | 7135.0 | 6740.4 | 6567.5 | 6416.1 | 6399.9 |
| 17.5° | 8824.2  | 9153.9  | 9259.3 | 8789.0 | 7908.0 | 7081.0 | 6435.0 | 6124.2 | 5954.0 | 5872.9 | 5897.2 |
| 20°   | 9164.7  | 9491.7  | 9405.2 | 8556.6 | 7308.0 | 6372.9 | 5797.2 | 5626.9 | 5591.8 | 5610.7 | 5602.6 |
| 22.5° | 9524.2  | 9816.0  | 9435.0 | 8108.0 | 6543.1 | 5648.6 | 5332.3 | 5337.7 | 5416.1 | 5472.9 | 5486.4 |
| 25°   | 9891.7  | 10089.0 | 9356.6 | 7459.3 | 5721.5 | 5116.1 | 5037.8 | 5124.2 | 5278.3 | 5389.1 | 5418.8 |
| 27.5° | 10245.8 | 10332.3 | 9186.3 | 6656.6 | 5016.1 | 4735.1 | 4748.6 | 4926.9 | 5159.4 | 5313.4 | 5351.3 |
| 30°   | 10645.8 | 10548.5 | 8859.3 | 5754.0 | 4526.9 | 4408.0 | 4521.5 | 4729.6 | 4962.1 | 5099.9 | 5132.3 |
| 32.5° | 11097.1 | 10735.0 | 8340.4 | 4918.8 | 4181.0 | 4145.9 | 4332.4 | 4467.5 | 4570.2 | 4610.7 | 4632.4 |
| 35°   | 11659.3 | 10997.1 | 7675.5 | 4332.4 | 3870.2 | 3954.0 | 4132.4 | 4064.8 | 4024.3 | 4002.6 | 4024.3 |
| 37.5° | 12389.0 | 11351.2 | 6897.2 | 3951.3 | 3618.9 | 3816.2 | 3889.1 | 3678.3 | 3518.9 | 3440.5 | 3459.4 |
| 40°   | 13267.3 | 11870.1 | 6148.5 | 3656.7 | 3459.4 | 3697.2 | 3570.2 | 3316.2 | 3113.5 | 3002.7 | 3010.8 |
| 42.5° | 14243.0 | 12413.3 | 5518.8 | 3435.1 | 3370.2 | 3599.9 | 3335.1 | 3032.4 | 2705.4 | 2670.2 | 2705.4 |
| 45°   | 15267.3 | 12972.8 | 5089.1 | 3264.8 | 3327.0 | 3516.2 | 3199.9 | 2710.8 | 2478.3 | 2621.6 | 2697.3 |
| 47.5° | 16291.6 | 13486.3 | 4829.6 | 3137.8 | 3305.3 | 3421.6 | 3081.0 | 2532.4 | 2367.5 | 2575.6 | 2672.9 |
| 50°   | 17432.1 | 13945.7 | 4713.4 | 3045.9 | 3281.0 | 3383.7 | 2902.7 | 2486.4 | 2251.3 | 2389.1 | 2491.8 |
| 52.5° | 18564.5 | 14302.5 | 4626.9 | 2954.0 | 3245.9 | 3354.0 | 2816.2 | 2432.4 | 2110.8 | 2118.9 | 2175.6 |
| 55°   | 19694.3 | 14534.9 | 4532.4 | 2832.4 | 3167.5 | 3289.1 | 2808.1 | 2372.9 | 2005.4 | 1967.5 | 1994.6 |
| 57.5° | 20899.6 | 14667.3 | 4416.1 | 2697.3 | 3032.4 | 3124.3 | 2800.0 | 2327.0 | 1972.9 | 1910.8 | 1918.9 |
| 60°   | 22126.6 | 14861.9 | 4264.8 | 2532.4 | 2851.3 | 2927.0 | 2781.0 | 2310.8 | 1954.0 | 1848.6 | 1856.7 |
| 62.5° | 23226.6 | 14929.5 | 4083.7 | 2375.6 | 2618.9 | 2732.4 | 2740.5 | 2297.3 | 1902.7 | 1721.6 | 1721.6 |
| 65°   | 23948.2 | 14637.6 | 3767.5 | 2197.3 | 2367.5 | 2532.4 | 2662.1 | 2251.3 | 1810.8 | 1629.7 | 1629.7 |
| 67.5° | 23918.5 | 13805.2 | 3272.9 | 1967.5 | 2124.3 | 2310.8 | 2548.6 | 2172.9 | 1700.0 | 1516.2 | 1524.3 |
| 70°   | 22805.0 | 12162.0 | 2645.9 | 1700.0 | 1856.7 | 2072.9 | 2402.7 | 2056.7 | 1567.5 | 1391.9 | 1408.1 |
| 72.5° | 19559.1 | 9518.8  | 1921.6 | 1386.5 | 1545.9 | 1827.0 | 2213.5 | 1916.2 | 1432.4 | 1281.1 | 1273.0 |
| 75°   | 13972.7 | 6024.2  | 1302.7 | 1064.8 | 1202.7 | 1548.6 | 1978.3 | 1751.3 | 1308.1 | 1286.5 | 1213.5 |
| 77.5° | 7137.7  | 2878.3  | 862.1  | 778.4  | 837.8  | 1221.6 | 1662.1 | 1564.8 | 1327.0 | 1062.1 | 945.9  |
| 80°   | 2321.6  | 1062.1  | 543.2  | 529.7  | 556.7  | 813.5  | 1286.5 | 1283.8 | 1005.4 | 721.6  | 637.8  |
| 82.5° | 740.5   | 456.7   | 354.0  | 340.5  | 327.0  | 510.8  | 897.3  | 1016.2 | 678.4  | 456.7  | 454.0  |
| 85°   | 294.6   | 273.0   | 208.1  | 191.9  | 137.8  | 240.5  | 470.3  | 675.7  | 505.4  | 329.7  | 337.8  |
| 87.5° | 108.1   | 108.1   | 56.8   | 40.5   | 29.7   | 81.1   | 127.0  | 202.7  | 289.2  | 170.3  | 167.6  |
| 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)