

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: LUMARK

Report Number: P285767

Luminaire Tested: **PRV-XL-C125-D-UNV-T2-BZ-7030-HSS**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 2/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-C125-D-UNV-T2-BZ-7030-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32999 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

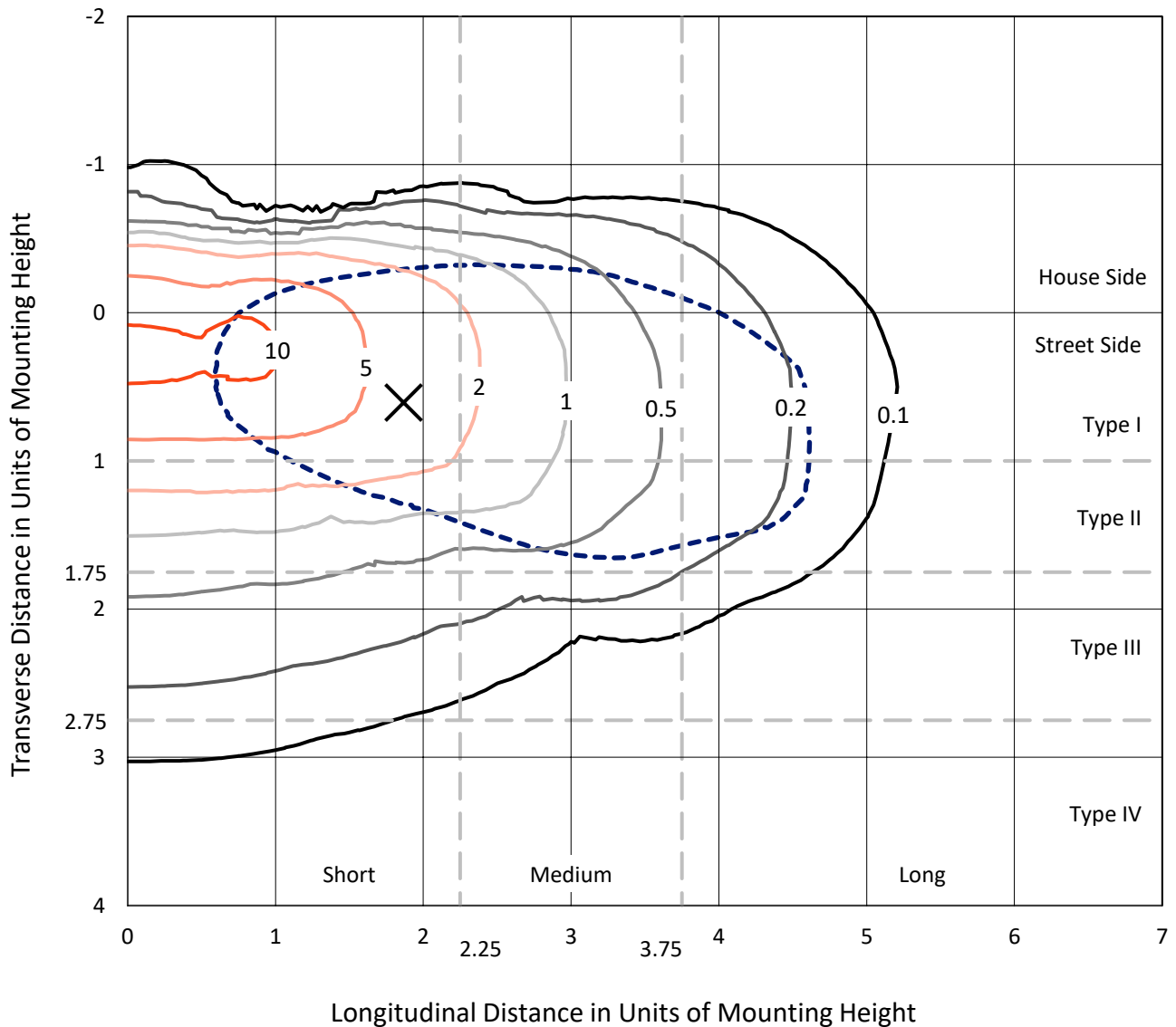
Input Watts (W): 264  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

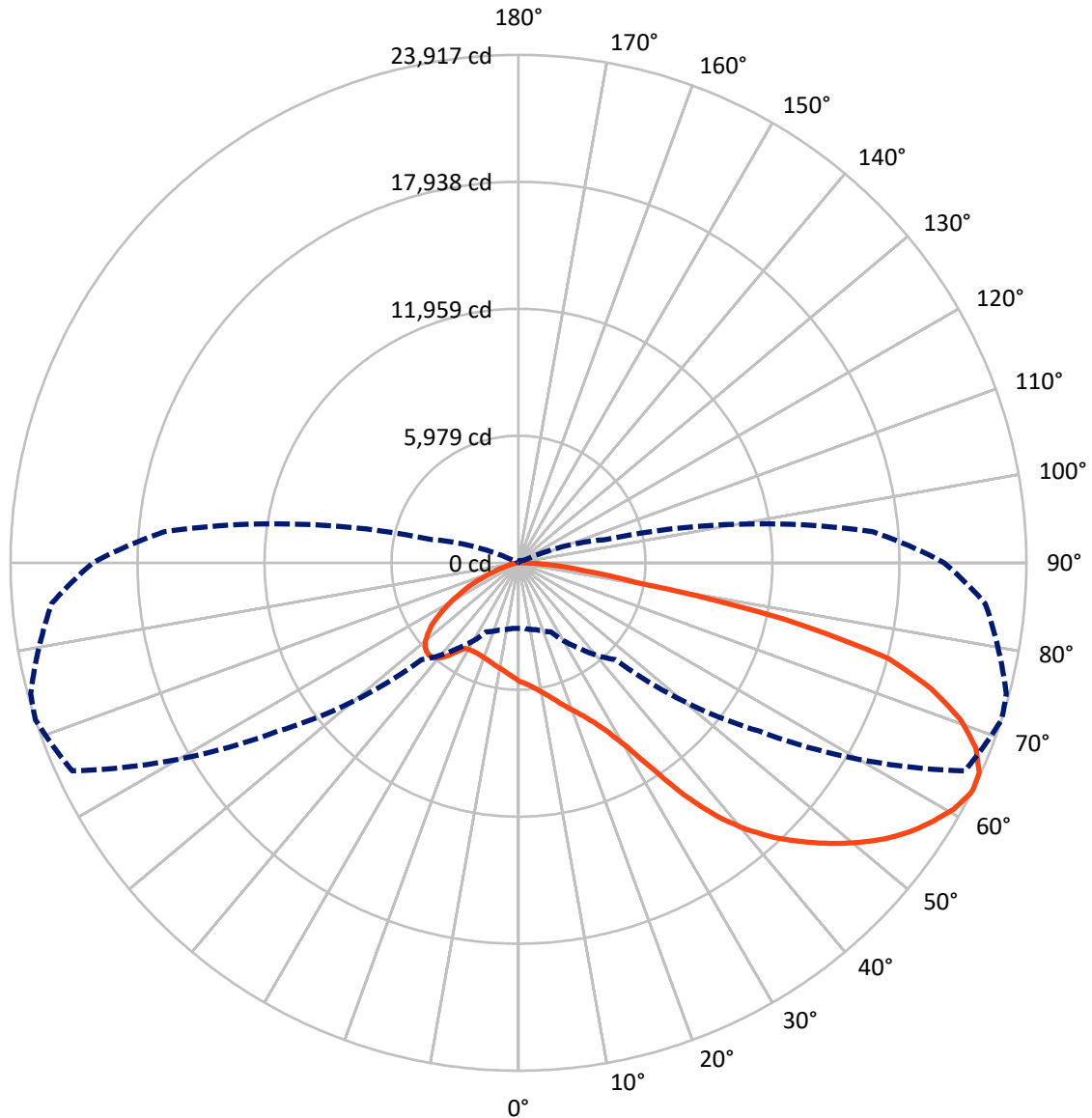
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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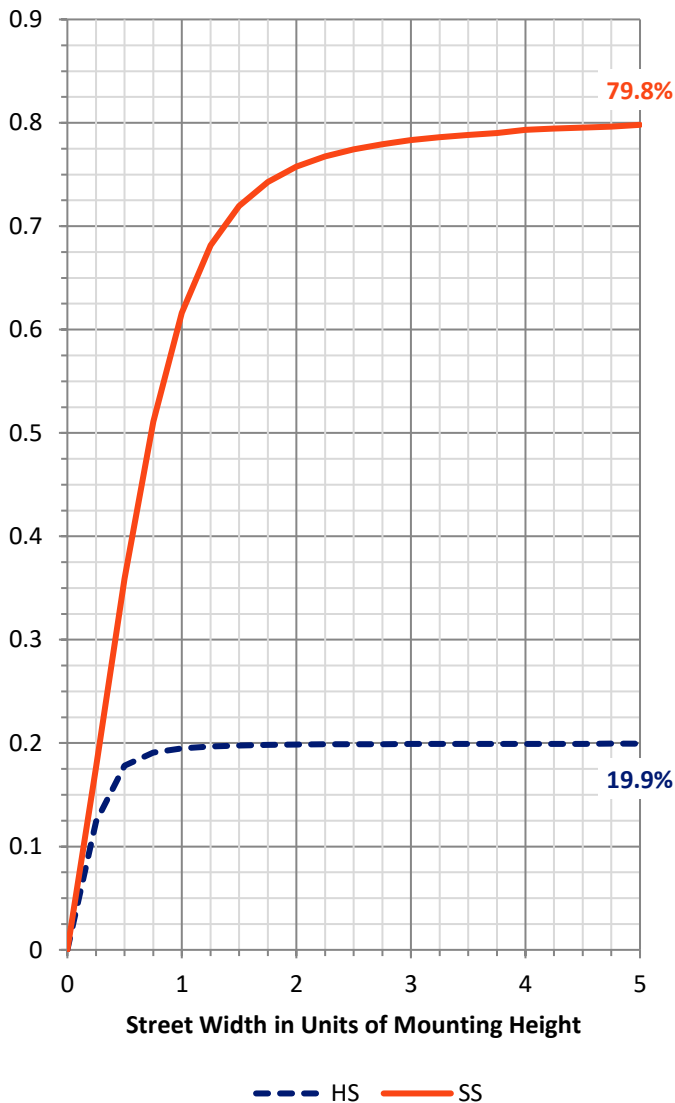
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6657.4   | 0.0    | 6657.4  |
|                    | % Fixture | 20.2     | 0.0    | 20.2    |
| <b>Street Side</b> | Lumens    | 26341.6  | 0.0    | 26341.6 |
|                    | % Fixture | 79.8     | 0.0    | 79.8    |
| <b>Total</b>       | Lumens    | 32999.0  | 0.0    | 32999.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 533.3   | 1.6       |
| 10°-20°   | 1617.2  | 4.9       |
| 20°-30°   | 2728.7  | 8.3       |
| 30°-40°   | 4176.1  | 12.7      |
| 40°-50°   | 5817.9  | 17.6      |
| 50°-60°   | 6743.0  | 20.4      |
| 60°-70°   | 6610.5  | 20.0      |
| 70°-80°   | 4127.2  | 12.5      |
| 80°-90°   | 645.1   | 2.0       |
| 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°    | 32999.0 | 100.0     |
| 0°-180°   | 32999.0 | 100.0     |



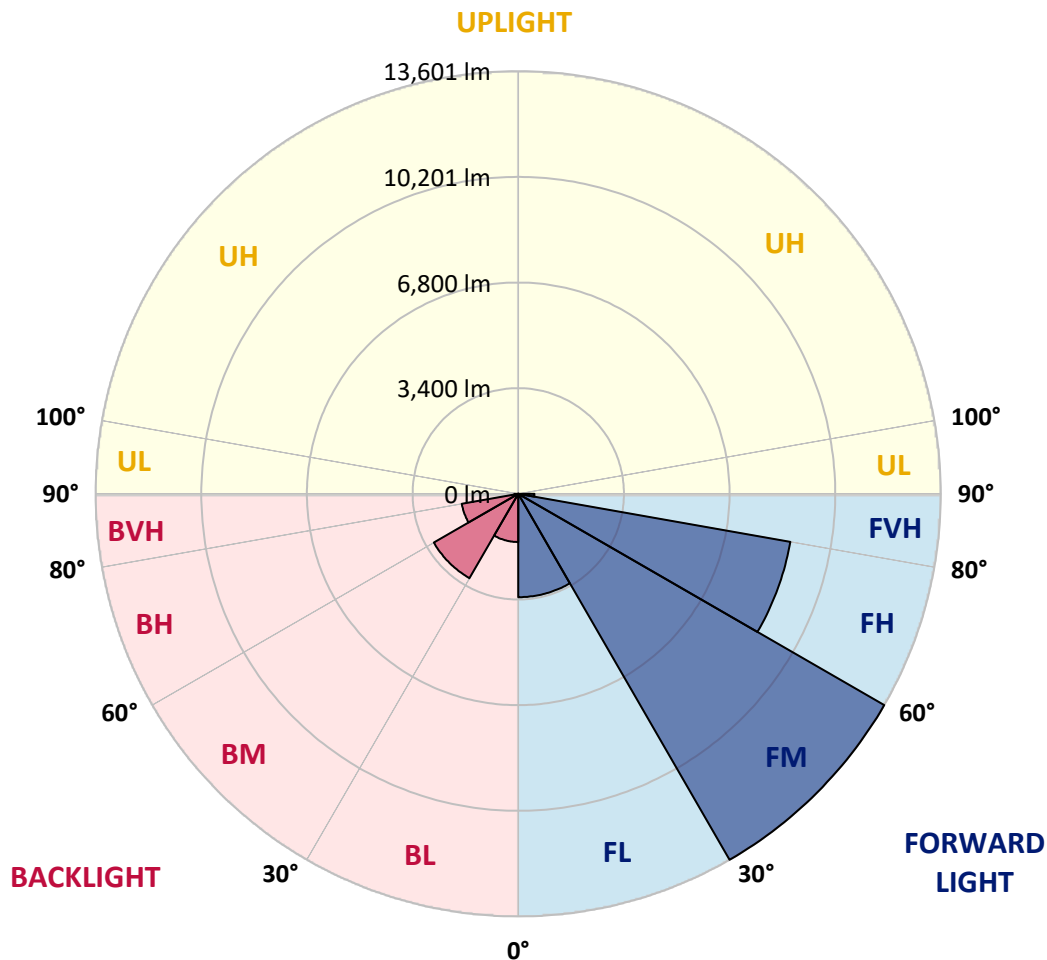
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3327.2  | 10.1      |                         |      |          |
| FM (30°-60°)   | 13600.7 | 41.2      |                         |      |          |
| FH (60°-80°)   | 8892.2  | 26.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 521.5   | 1.6       |                         |      | G4/750   |
| BL (0°-30°)    | 1552.0  | 4.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 3136.3  | 9.5       | B3/5000                 |      |          |
| BH (60°-80°)   | 1845.5  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 123.6   | 0.4       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5585.5 | 5585.5 | 5585.5 | 5585.5 | 5585.5  | 5585.5  | 5585.5  | 5585.5  | 5585.5  | 5585.5  | 5585.5  |
| 2.5°  | 6068.6 | 6052.3 | 6034.5 | 6012.7 | 5994.9  | 5940.4  | 5891.2  | 5797.1  | 5681.1  | 5675.6  | 5581.5  |
| 5°    | 6482.1 | 6456.2 | 6435.7 | 6397.5 | 6355.2  | 6258.3  | 6145.1  | 5986.8  | 5821.6  | 5795.7  | 5629.2  |
| 7.5°  | 6827.4 | 6800.1 | 6776.9 | 6727.8 | 6680.0  | 6561.3  | 6415.3  | 6202.4  | 5997.7  | 5945.8  | 5696.1  |
| 10°   | 7129.0 | 7101.7 | 7090.8 | 7037.5 | 7003.4  | 6873.8  | 6692.3  | 6461.7  | 6205.1  | 6126.0  | 5797.1  |
| 12.5° | 7446.9 | 7418.3 | 7399.2 | 7343.2 | 7302.3  | 7164.5  | 7003.4  | 6745.5  | 6454.8  | 6370.2  | 5941.7  |
| 15°   | 7760.8 | 7734.9 | 7691.2 | 7661.2 | 7613.4  | 7470.1  | 7318.7  | 7049.8  | 6760.5  | 6654.1  | 6135.5  |
| 17.5° | 8050.1 | 8028.3 | 7995.5 | 7969.6 | 7930.0  | 7781.3  | 7616.2  | 7388.3  | 7092.1  | 6961.1  | 6357.9  |
| 20°   | 8263.0 | 8264.4 | 8250.7 | 8237.1 | 8250.7  | 8129.3  | 7995.5  | 7741.7  | 7437.4  | 7284.5  | 6588.6  |
| 22.5° | 8445.9 | 8456.8 | 8474.5 | 8495.0 | 8582.3  | 8522.3  | 8361.3  | 8155.2  | 7829.0  | 7648.9  | 6884.7  |
| 25°   | 8535.9 | 8544.1 | 8623.3 | 8757.0 | 8953.5  | 8952.2  | 8802.0  | 8653.3  | 8343.5  | 8156.6  | 7296.8  |
| 27.5° | 8589.2 | 8600.1 | 8710.6 | 8979.5 | 9326.1  | 9379.3  | 9317.9  | 9252.4  | 9036.8  | 8849.8  | 7841.3  |
| 30°   | 8586.4 | 8601.4 | 8772.0 | 9109.1 | 9619.5  | 9889.7  | 9895.1  | 10136.7 | 10034.3 | 9906.1  | 8759.7  |
| 32.5° | 8381.7 | 8387.2 | 8624.6 | 9121.4 | 9840.6  | 10342.7 | 10567.9 | 11201.1 | 11517.7 | 11540.9 | 10456.0 |
| 35°   | 7895.9 | 7965.5 | 8320.3 | 9010.8 | 10000.2 | 10786.3 | 11369.0 | 12561.7 | 13402.3 | 13441.9 | 12159.1 |
| 37.5° | 7546.6 | 7588.9 | 7992.8 | 8813.0 | 10073.9 | 11248.9 | 12288.7 | 14195.2 | 15115.0 | 15018.1 | 13568.8 |
| 40°   | 7164.5 | 7216.3 | 7631.2 | 8548.2 | 10027.5 | 11646.0 | 13226.3 | 15763.2 | 16500.1 | 16348.6 | 14769.7 |
| 42.5° | 6741.4 | 6785.1 | 7175.4 | 8156.6 | 9880.1  | 11932.6 | 14131.0 | 17118.3 | 17684.6 | 17499.0 | 15861.4 |
| 45°   | 6325.2 | 6353.8 | 6723.7 | 7628.4 | 9596.3  | 12107.3 | 14956.7 | 18338.3 | 18735.4 | 18578.5 | 16867.2 |
| 47.5° | 5797.1 | 5831.2 | 6284.3 | 7124.9 | 9076.3  | 12101.8 | 15671.7 | 19423.2 | 19754.8 | 19580.1 | 17763.8 |
| 50°   | 4470.6 | 4492.5 | 5492.8 | 6667.7 | 8404.9  | 11861.6 | 16284.5 | 20405.7 | 20718.2 | 20519.0 | 18650.8 |
| 52.5° | 4050.3 | 4068.0 | 4377.8 | 6098.7 | 7672.1  | 11363.5 | 16687.0 | 21311.9 | 21594.4 | 21381.5 | 19487.3 |
| 55°   | 3849.7 | 3862.0 | 4012.1 | 4963.3 | 7029.4  | 10509.2 | 16864.4 | 22151.1 | 22365.4 | 22089.7 | 20166.9 |
| 57.5° | 3565.9 | 3590.4 | 3816.9 | 4250.9 | 6400.2  | 9197.8  | 16610.6 | 22829.4 | 22990.4 | 22720.2 | 20828.8 |
| 60°   | 3350.2 | 3365.2 | 3556.3 | 3900.2 | 5640.1  | 7730.8  | 15704.5 | 23287.9 | 23549.9 | 23305.6 | 21451.1 |
| 62.5° | 3140.1 | 3145.5 | 3305.2 | 3639.5 | 4979.6  | 6635.0  | 14158.3 | 23259.2 | 23893.8 | 23742.3 | 21994.2 |
| 63°   | 3095.0 | 3100.5 | 3262.9 | 3591.8 | 4882.7  | 6453.5  | 13819.9 | 23189.6 | 23917.0 | 23779.2 | 22066.5 |
| 65°   | 2904.0 | 2912.2 | 3070.5 | 3373.4 | 4462.4  | 5878.9  | 12321.5 | 22761.1 | 23839.2 | 23835.1 | 22163.4 |
| 67.5° | 2618.8 | 2633.8 | 2768.9 | 3028.2 | 3889.3  | 5153.0  | 10011.1 | 22304.0 | 23214.2 | 23263.3 | 21621.6 |
| 70°   | 2273.5 | 2284.4 | 2437.3 | 2655.6 | 3272.5  | 4375.1  | 7666.7  | 20842.4 | 22065.2 | 21928.7 | 20366.2 |
| 72.5° | 1907.8 | 1926.9 | 2072.9 | 2242.1 | 2714.3  | 3609.5  | 5551.4  | 18349.2 | 20340.2 | 20441.2 | 18260.5 |
| 75°   | 1664.9 | 1675.8 | 1801.3 | 1921.4 | 2254.4  | 2872.6  | 3713.2  | 13175.8 | 17984.8 | 18010.8 | 15752.3 |
| 77.5° | 1381.0 | 1394.7 | 1524.3 | 1637.6 | 1828.6  | 2163.0  | 2561.5  | 6847.9  | 12788.2 | 13514.2 | 12231.4 |
| 80°   | 761.5  | 884.3  | 1098.6 | 1181.8 | 1323.7  | 1314.2  | 1629.4  | 3619.1  | 5659.2  | 7075.8  | 8078.8  |
| 82.5° | 128.3  | 165.1  | 443.5  | 578.6  | 630.5   | 554.1   | 791.5   | 1992.4  | 3155.1  | 3620.4  | 4347.8  |
| 85°   | 54.6   | 79.2   | 232.0  | 253.8  | 158.3   | 154.2   | 312.5   | 1042.6  | 1805.4  | 2079.7  | 2240.8  |
| 87.5° | 6.8    | 12.3   | 60.0   | 79.2   | 36.8    | 50.5    | 62.8    | 326.2   | 629.1   | 723.3   | 817.4   |
| 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°    | 5585.5  | 5585.5  | 5585.5 | 5585.5 | 5585.5 | 5585.5 | 5585.5 | 5585.5 | 5585.5 | 5585.5 | 5585.5 |
| 2.5°  | 5536.4  | 5505.0  | 5432.7 | 5376.8 | 5335.8 | 5279.9 | 5219.8 | 5176.1 | 5129.8 | 5109.3 | 5117.5 |
| 5°    | 5544.6  | 5475.0  | 5320.8 | 5199.3 | 5064.2 | 4964.6 | 4835.0 | 4769.5 | 4698.5 | 4663.0 | 4661.7 |
| 7.5°  | 5566.4  | 5457.3  | 5214.4 | 5023.3 | 4830.9 | 4675.3 | 4506.1 | 4390.1 | 4327.3 | 4280.9 | 4275.5 |
| 10°   | 5621.0  | 5465.5  | 5133.8 | 4874.6 | 4626.2 | 4417.4 | 4211.3 | 4061.2 | 3975.3 | 3927.5 | 3934.3 |
| 12.5° | 5719.3  | 5495.5  | 5076.5 | 4753.1 | 4433.8 | 4185.4 | 3922.0 | 3746.0 | 3640.9 | 3582.2 | 3598.6 |
| 15°   | 5854.4  | 5561.0  | 5017.8 | 4603.0 | 4227.7 | 3935.7 | 3654.6 | 3455.3 | 3338.0 | 3287.5 | 3303.8 |
| 17.5° | 6005.9  | 5656.5  | 4976.9 | 4435.1 | 4010.7 | 3680.5 | 3419.8 | 3224.7 | 3028.2 | 2988.6 | 2988.6 |
| 20°   | 6175.1  | 5763.0  | 4970.1 | 4275.5 | 3796.5 | 3437.6 | 3137.3 | 2973.6 | 2688.4 | 2591.5 | 2571.0 |
| 22.5° | 6398.9  | 5913.1  | 4961.9 | 4129.5 | 3568.6 | 3186.5 | 2818.0 | 2560.1 | 2190.3 | 2023.8 | 2007.4 |
| 25°   | 6707.3  | 6120.5  | 4975.5 | 4009.4 | 3361.2 | 2904.0 | 2378.6 | 1965.1 | 1654.0 | 1445.2 | 1434.3 |
| 27.5° | 7120.8  | 6397.5  | 5019.2 | 3897.5 | 3153.7 | 2556.0 | 1842.3 | 1401.5 | 1161.3 | 974.4  | 918.4  |
| 30°   | 7902.7  | 6835.6  | 5095.6 | 3797.8 | 2912.2 | 2089.3 | 1310.1 | 948.4  | 776.5  | 646.8  | 618.2  |
| 32.5° | 9397.0  | 7935.5  | 5200.7 | 3687.3 | 2614.7 | 1539.3 | 874.7  | 633.2  | 494.0  | 419.0  | 435.3  |
| 35°   | 10887.2 | 9307.0  | 5701.5 | 3524.9 | 2223.0 | 1024.9 | 584.1  | 403.9  | 311.1  | 308.4  | 326.2  |
| 37.5° | 12230.1 | 10520.2 | 6378.4 | 3343.4 | 1699.0 | 689.2  | 350.7  | 268.8  | 260.6  | 283.8  | 319.3  |
| 40°   | 13343.6 | 11505.4 | 6950.2 | 3089.6 | 1166.8 | 421.7  | 229.3  | 244.3  | 232.0  | 241.5  | 237.5  |
| 42.5° | 14378.0 | 12392.5 | 7414.2 | 2801.6 | 687.8  | 242.9  | 199.2  | 226.5  | 208.8  | 200.6  | 184.2  |
| 45°   | 15308.7 | 13229.0 | 7647.5 | 2348.6 | 401.2  | 193.8  | 181.5  | 214.3  | 202.0  | 187.0  | 162.4  |
| 47.5° | 16156.2 | 13963.2 | 7800.4 | 1729.0 | 230.6  | 169.2  | 169.2  | 192.4  | 189.7  | 171.9  | 158.3  |
| 50°   | 17035.0 | 14681.0 | 7785.4 | 1061.7 | 195.1  | 155.6  | 161.0  | 161.0  | 170.6  | 133.7  | 121.5  |
| 52.5° | 17811.5 | 15326.5 | 7474.2 | 601.8  | 180.1  | 147.4  | 146.0  | 131.0  | 139.2  | 103.7  | 96.9   |
| 55°   | 18442.0 | 15828.7 | 6951.6 | 397.1  | 170.6  | 146.0  | 128.3  | 113.3  | 106.4  | 75.1   | 77.8   |
| 57.5° | 19061.5 | 16306.3 | 6151.9 | 313.9  | 177.4  | 140.6  | 117.4  | 96.9   | 83.2   | 58.7   | 56.0   |
| 60°   | 19659.3 | 16687.0 | 5304.4 | 282.5  | 187.0  | 140.6  | 96.9   | 81.9   | 56.0   | 45.0   | 39.6   |
| 62.5° | 20020.9 | 16770.3 | 4366.9 | 255.2  | 192.4  | 131.0  | 87.3   | 66.9   | 40.9   | 30.0   | 27.3   |
| 63°   | 20046.8 | 16745.7 | 4200.4 | 251.1  | 193.8  | 131.0  | 87.3   | 64.1   | 39.6   | 27.3   | 24.6   |
| 65°   | 20007.3 | 16435.9 | 3550.8 | 237.5  | 197.9  | 125.5  | 83.2   | 51.9   | 31.4   | 19.1   | 16.4   |
| 67.5° | 19345.4 | 15400.2 | 2632.4 | 222.4  | 189.7  | 124.2  | 76.4   | 42.3   | 24.6   | 12.3   | 9.6    |
| 70°   | 17725.5 | 13792.6 | 1759.0 | 197.9  | 182.9  | 121.5  | 90.1   | 35.5   | 20.5   | 6.8    | 5.5    |
| 72.5° | 15462.9 | 12058.1 | 1177.7 | 162.4  | 159.7  | 99.6   | 54.6   | 30.0   | 15.0   | 2.7    | 0.0    |
| 75°   | 13069.3 | 9704.1  | 728.7  | 124.2  | 129.6  | 84.6   | 43.7   | 25.9   | 12.3   | 0.0    | 0.0    |
| 77.5° | 10173.5 | 7168.6  | 518.6  | 79.2   | 91.4   | 72.3   | 36.8   | 21.8   | 9.6    | 0.0    | 0.0    |
| 80°   | 6940.7  | 4858.2  | 375.3  | 43.7   | 47.8   | 47.8   | 30.0   | 16.4   | 5.5    | 0.0    | 0.0    |
| 82.5° | 4025.7  | 2722.5  | 191.1  | 21.8   | 20.5   | 24.6   | 13.6   | 8.2    | 1.4    | 0.0    | 0.0    |
| 85°   | 1963.7  | 1206.4  | 32.8   | 12.3   | 10.9   | 10.9   | 5.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 666.0   | 312.5   | 4.1    | 5.5    | 4.1    | 1.4    | 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    | 0.0    |

(END OF REPORT)