

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: P285772

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

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285772  
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-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K 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: 33609 lumens  
Efficiency: N/A  
Efficacy: 127.3 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

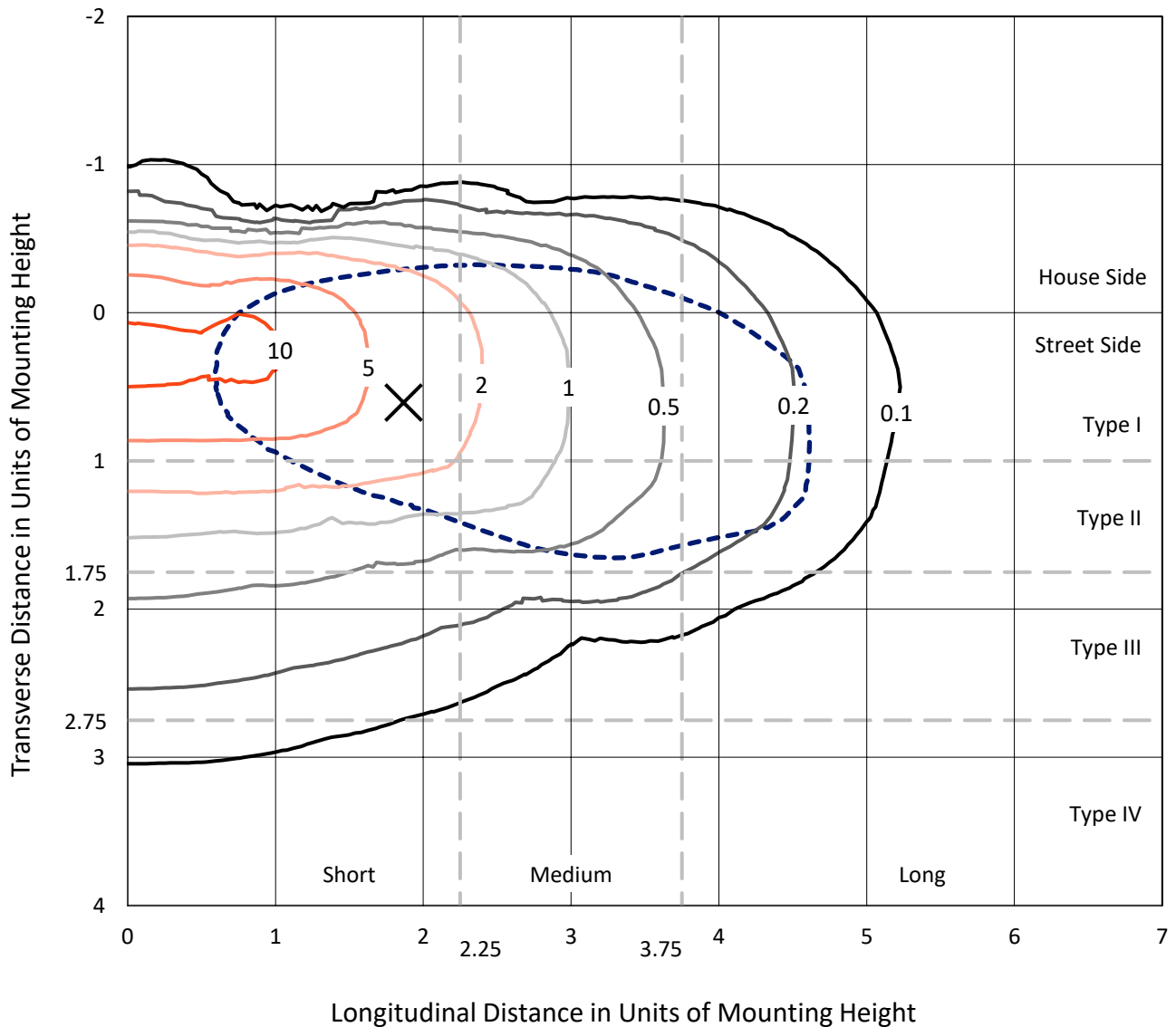
Input Watts (W): 264  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

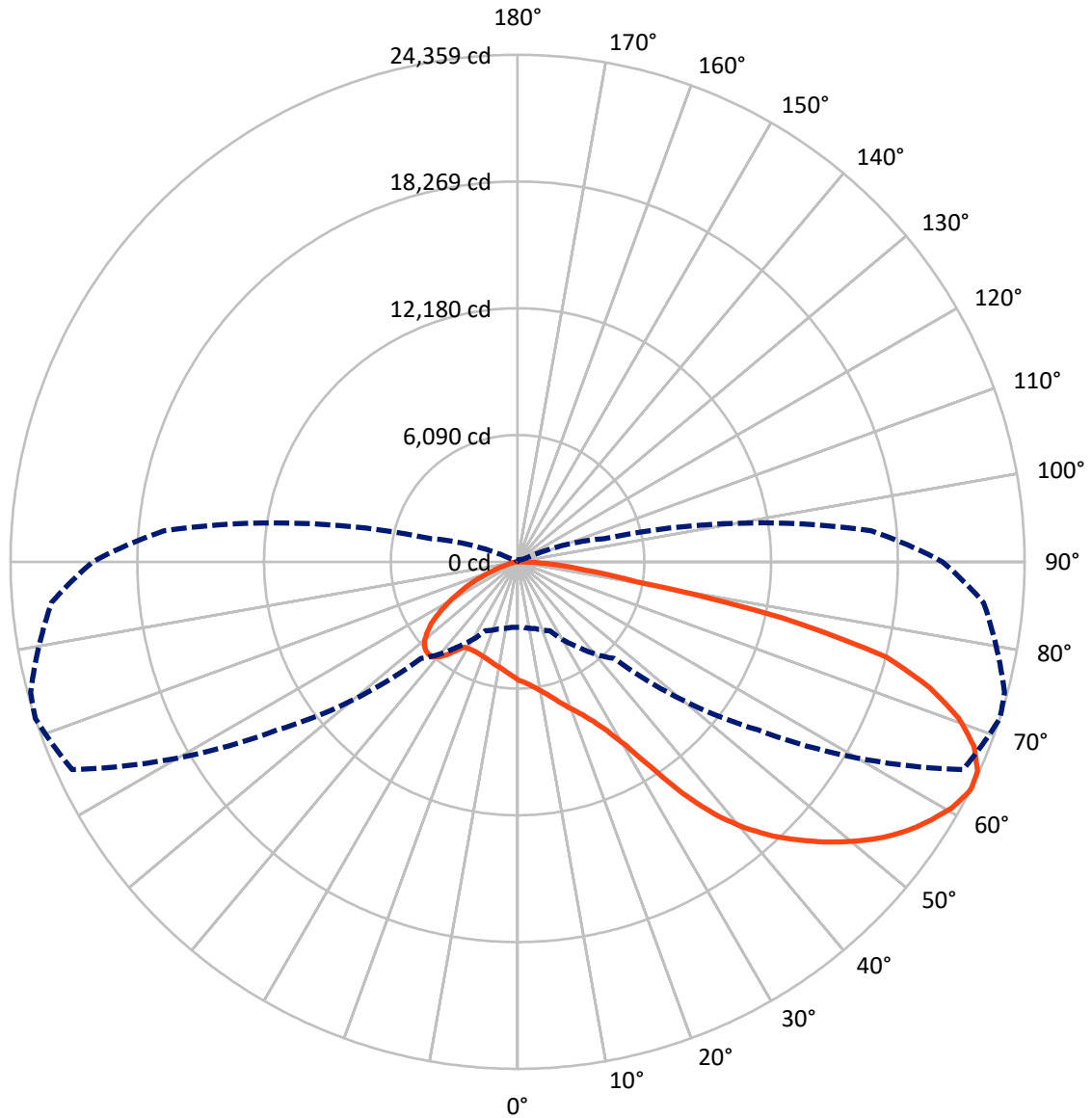
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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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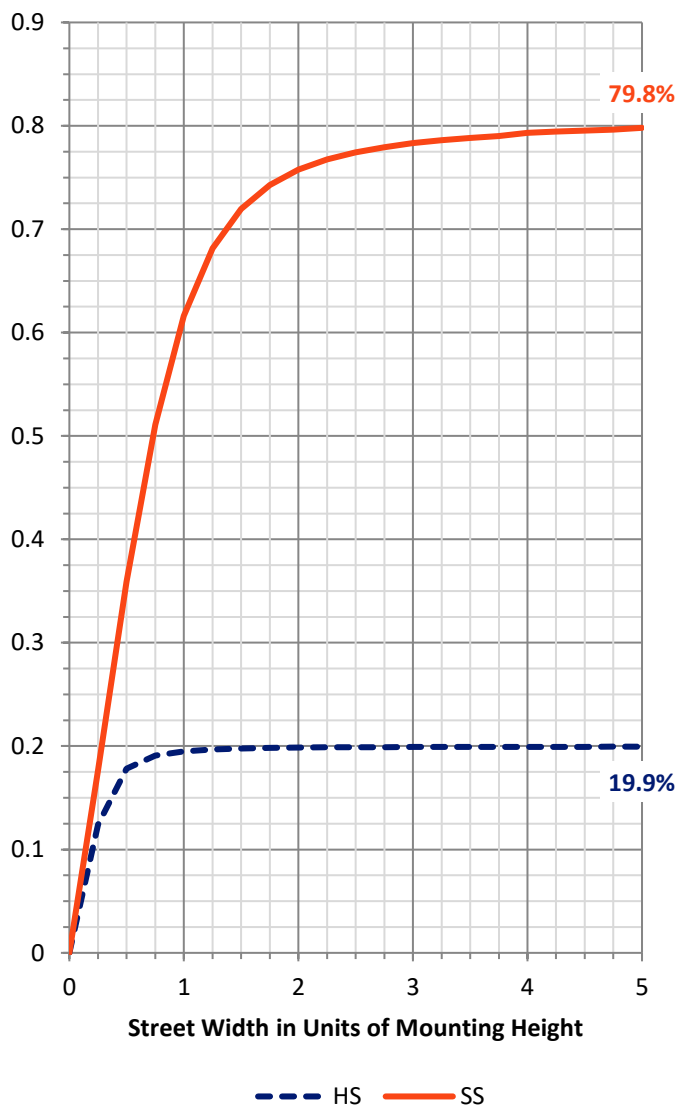
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6780.5   | 0.0    | 6780.5  |
|                    | % Fixture | 20.2     | 0.0    | 20.2    |
| <b>Street Side</b> | Lumens    | 26828.5  | 0.0    | 26828.5 |
|                    | % Fixture | 79.8     | 0.0    | 79.8    |
| <b>Total</b>       | Lumens    | 33609.0  | 0.0    | 33609.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 543.2   | 1.6       |
| 10°-20°   | 1647.1  | 4.9       |
| 20°-30°   | 2779.1  | 8.3       |
| 30°-40°   | 4253.3  | 12.7      |
| 40°-50°   | 5925.4  | 17.6      |
| 50°-60°   | 6867.7  | 20.4      |
| 60°-70°   | 6732.7  | 20.0      |
| 70°-80°   | 4203.5  | 12.5      |
| 80°-90°   | 657.0   | 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°    | 33609.0 | 100.0     |
| 0°-180°   | 33609.0 | 100.0     |

**Coefficient of Utilization**



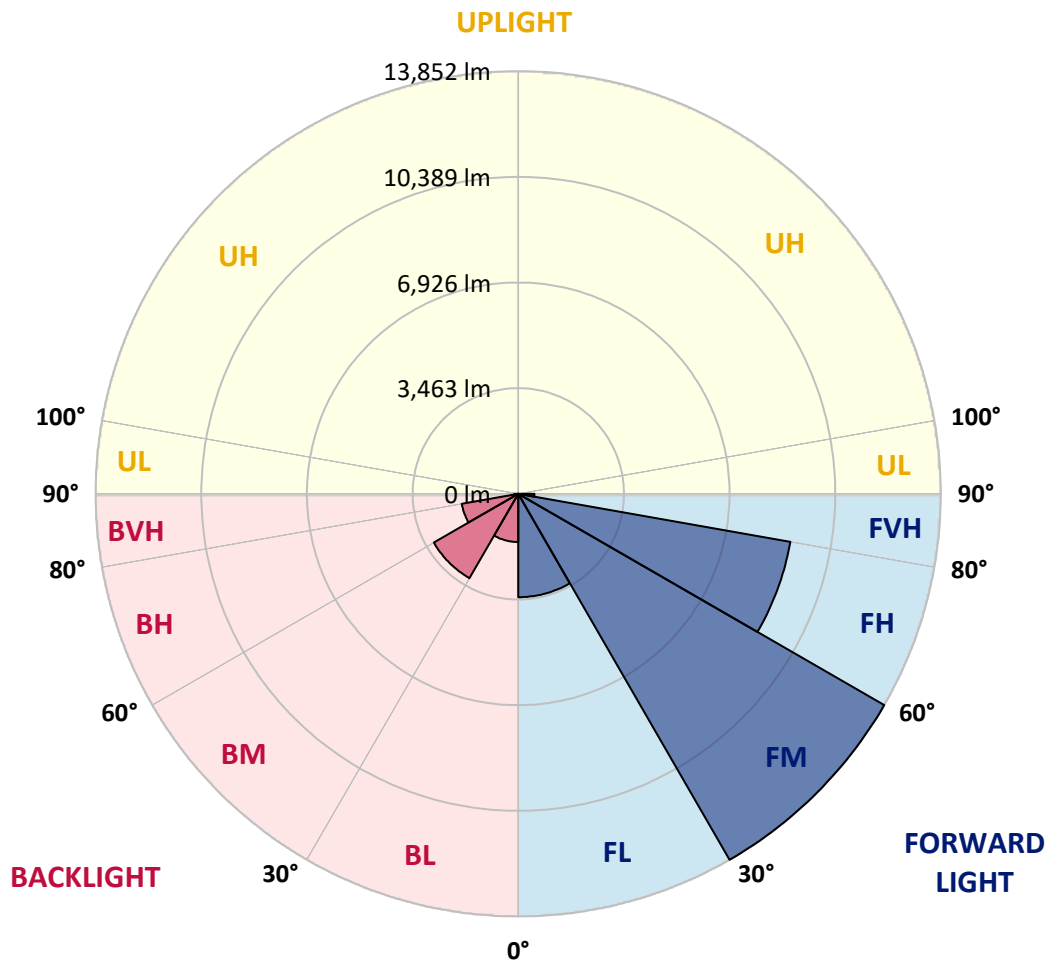
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3388.7  | 10.1      |                         |      |          |
| FM (30°-60°)   | 13852.1 | 41.2      |                         |      |          |
| FH (60°-80°)   | 9056.6  | 26.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 531.1   | 1.6       |                         |      | G4/750   |
| BL (0°-30°)    | 1580.7  | 4.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 3194.3  | 9.5       | B3/5000                 |      |          |
| BH (60°-80°)   | 1879.6  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 125.9   | 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°    | 5688.8 | 5688.8 | 5688.8 | 5688.8 | 5688.8  | 5688.8  | 5688.8  | 5688.8  | 5688.8  | 5688.8  | 5688.8  |
| 2.5°  | 6180.8 | 6164.1 | 6146.1 | 6123.8 | 6105.8  | 6050.2  | 6000.1  | 5904.2  | 5786.1  | 5780.5  | 5684.6  |
| 5°    | 6602.0 | 6575.5 | 6554.7 | 6515.8 | 6472.7  | 6374.0  | 6258.7  | 6097.4  | 5929.2  | 5902.8  | 5733.3  |
| 7.5°  | 6953.6 | 6925.8 | 6902.2 | 6852.1 | 6803.5  | 6682.6  | 6533.8  | 6317.0  | 6108.5  | 6055.7  | 5801.4  |
| 10°   | 7260.8 | 7233.0 | 7221.8 | 7167.6 | 7132.9  | 7000.8  | 6816.0  | 6581.1  | 6319.8  | 6239.2  | 5904.2  |
| 12.5° | 7584.6 | 7555.4 | 7536.0 | 7479.0 | 7437.3  | 7296.9  | 7132.9  | 6870.2  | 6574.2  | 6488.0  | 6051.6  |
| 15°   | 7904.3 | 7877.9 | 7833.4 | 7802.8 | 7754.2  | 7608.2  | 7454.0  | 7180.1  | 6885.5  | 6777.1  | 6248.9  |
| 17.5° | 8198.9 | 8176.7 | 8143.3 | 8116.9 | 8076.6  | 7925.1  | 7756.9  | 7524.8  | 7223.2  | 7089.8  | 6475.5  |
| 20°   | 8415.8 | 8417.1 | 8403.2 | 8389.3 | 8403.2  | 8279.5  | 8143.3  | 7884.8  | 7574.9  | 7419.2  | 6710.4  |
| 22.5° | 8602.0 | 8613.1 | 8631.2 | 8652.0 | 8741.0  | 8679.8  | 8515.8  | 8306.0  | 7973.8  | 7790.3  | 7012.0  |
| 25°   | 8693.7 | 8702.1 | 8782.7 | 8918.9 | 9119.0  | 9117.6  | 8964.8  | 8813.3  | 8497.8  | 8307.3  | 7431.7  |
| 27.5° | 8747.9 | 8759.1 | 8871.6 | 9145.4 | 9498.5  | 9552.7  | 9490.1  | 9423.4  | 9203.8  | 9013.4  | 7986.3  |
| 30°   | 8745.2 | 8760.4 | 8934.2 | 9277.5 | 9797.3  | 10072.5 | 10078.1 | 10324.1 | 10219.8 | 10089.2 | 8921.7  |
| 32.5° | 8536.7 | 8542.2 | 8784.1 | 9290.0 | 10022.5 | 10533.9 | 10763.3 | 11408.2 | 11730.6 | 11754.3 | 10649.3 |
| 35°   | 8041.9 | 8112.8 | 8474.1 | 9177.4 | 10185.1 | 10985.6 | 11579.1 | 12793.9 | 13650.1 | 13690.4 | 12383.9 |
| 37.5° | 7686.1 | 7729.1 | 8140.6 | 8975.9 | 10260.1 | 11456.8 | 12515.9 | 14457.6 | 15394.4 | 15295.7 | 13819.6 |
| 40°   | 7296.9 | 7349.7 | 7772.2 | 8706.2 | 10212.9 | 11861.3 | 13470.8 | 16054.6 | 16805.1 | 16650.8 | 15042.7 |
| 42.5° | 6866.0 | 6910.5 | 7308.0 | 8307.3 | 10062.8 | 12153.2 | 14392.3 | 17434.7 | 18011.5 | 17822.5 | 16154.6 |
| 45°   | 6442.1 | 6471.3 | 6848.0 | 7769.5 | 9773.7  | 12331.1 | 15233.1 | 18677.3 | 19081.7 | 18921.9 | 17179.0 |
| 47.5° | 5904.2 | 5939.0 | 6400.4 | 7256.6 | 9244.1  | 12325.5 | 15961.4 | 19782.2 | 20120.0 | 19942.1 | 18092.1 |
| 50°   | 4553.3 | 4575.5 | 5594.3 | 6791.0 | 8560.3  | 12080.9 | 16585.5 | 20782.9 | 21101.2 | 20898.3 | 18995.6 |
| 52.5° | 4125.2 | 4143.2 | 4458.8 | 6211.4 | 7813.9  | 11573.6 | 16995.5 | 21705.8 | 21993.5 | 21776.7 | 19847.6 |
| 55°   | 3920.9 | 3933.4 | 4086.3 | 5055.0 | 7159.3  | 10703.5 | 17176.2 | 22560.6 | 22778.8 | 22498.1 | 20539.7 |
| 57.5° | 3631.8 | 3656.8 | 3887.5 | 4329.5 | 6518.6  | 9367.8  | 16917.7 | 23251.4 | 23415.4 | 23140.2 | 21213.8 |
| 60°   | 3412.2 | 3427.5 | 3622.0 | 3972.3 | 5744.4  | 7873.7  | 15994.8 | 23718.4 | 23985.2 | 23736.5 | 21847.6 |
| 62.5° | 3198.1 | 3203.7 | 3366.3 | 3706.8 | 5071.7  | 6757.6  | 14420.1 | 23689.2 | 24335.5 | 24181.2 | 22400.8 |
| 63°   | 3152.3 | 3157.8 | 3323.2 | 3658.2 | 4973.0  | 6572.8  | 14075.4 | 23618.3 | 24359.1 | 24218.7 | 22474.4 |
| 65°   | 2957.7 | 2966.0 | 3127.2 | 3435.8 | 4544.9  | 5987.6  | 12549.3 | 23181.9 | 24279.9 | 24275.7 | 22573.1 |
| 67.5° | 2667.2 | 2682.5 | 2820.1 | 3084.2 | 3961.2  | 5248.2  | 10196.2 | 22716.3 | 23643.3 | 23693.4 | 22021.3 |
| 70°   | 2315.5 | 2326.7 | 2482.3 | 2704.7 | 3332.9  | 4456.0  | 7808.4  | 21227.7 | 22473.0 | 22334.1 | 20742.6 |
| 72.5° | 1943.1 | 1962.5 | 2111.2 | 2283.6 | 2764.5  | 3676.2  | 5654.1  | 18688.4 | 20716.2 | 20819.1 | 18598.0 |
| 75°   | 1695.7 | 1706.8 | 1834.6 | 1957.0 | 2296.1  | 2925.7  | 3781.9  | 13419.3 | 18317.3 | 18343.7 | 16043.4 |
| 77.5° | 1406.6 | 1420.5 | 1552.5 | 1667.9 | 1862.4  | 2203.0  | 2608.8  | 6974.4  | 13024.6 | 13764.0 | 12457.5 |
| 80°   | 775.6  | 900.6  | 1118.9 | 1203.6 | 1348.2  | 1338.5  | 1659.5  | 3686.0  | 5763.9  | 7206.6  | 8228.1  |
| 82.5° | 130.6  | 168.2  | 451.7  | 589.3  | 642.1   | 564.3   | 806.1   | 2029.2  | 3213.4  | 3687.4  | 4428.2  |
| 85°   | 55.6   | 80.6   | 236.3  | 258.5  | 161.2   | 157.1   | 318.3   | 1061.9  | 1838.8  | 2118.2  | 2282.2  |
| 87.5° | 6.9    | 12.5   | 61.2   | 80.6   | 37.5    | 51.4    | 63.9    | 332.2   | 640.7   | 736.6   | 832.5   |
| 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°    | 5688.8  | 5688.8  | 5688.8 | 5688.8 | 5688.8 | 5688.8 | 5688.8 | 5688.8 | 5688.8 | 5688.8 | 5688.8 |
| 2.5°  | 5638.8  | 5606.8  | 5533.1 | 5476.1 | 5434.4 | 5377.5 | 5316.3 | 5271.8 | 5224.6 | 5203.7 | 5212.1 |
| 5°    | 5647.1  | 5576.2  | 5419.2 | 5295.5 | 5157.9 | 5056.4 | 4924.4 | 4857.6 | 4785.4 | 4749.2 | 4747.8 |
| 7.5°  | 5669.3  | 5558.1  | 5310.7 | 5116.2 | 4920.2 | 4761.7 | 4589.4 | 4471.3 | 4407.3 | 4360.1 | 4354.5 |
| 10°   | 5724.9  | 5566.5  | 5228.7 | 4964.7 | 4711.7 | 4499.1 | 4289.2 | 4136.3 | 4048.7 | 4000.1 | 4007.0 |
| 12.5° | 5825.0  | 5597.1  | 5170.4 | 4841.0 | 4515.7 | 4262.8 | 3994.5 | 3815.2 | 3708.2 | 3648.4 | 3665.1 |
| 15°   | 5962.6  | 5663.8  | 5110.6 | 4688.1 | 4305.9 | 4008.4 | 3722.1 | 3519.2 | 3399.7 | 3348.2 | 3364.9 |
| 17.5° | 6116.9  | 5761.1  | 5068.9 | 4517.1 | 4084.9 | 3748.5 | 3483.1 | 3284.3 | 3084.2 | 3043.8 | 3043.8 |
| 20°   | 6289.2  | 5869.5  | 5062.0 | 4354.5 | 3866.7 | 3501.1 | 3195.3 | 3028.6 | 2738.1 | 2639.4 | 2618.5 |
| 22.5° | 6517.2  | 6022.4  | 5053.6 | 4205.8 | 3634.5 | 3245.4 | 2870.1 | 2607.4 | 2230.8 | 2061.2 | 2044.5 |
| 25°   | 6831.3  | 6233.6  | 5067.5 | 4083.5 | 3423.3 | 2957.7 | 2422.6 | 2001.4 | 1684.5 | 1471.9 | 1460.8 |
| 27.5° | 7252.4  | 6515.8  | 5112.0 | 3969.5 | 3212.0 | 2603.3 | 1876.3 | 1427.4 | 1182.8 | 992.4  | 935.4  |
| 30°   | 8048.8  | 6961.9  | 5189.8 | 3868.0 | 2966.0 | 2127.9 | 1334.3 | 966.0  | 790.8  | 658.8  | 629.6  |
| 32.5° | 9570.7  | 8082.2  | 5296.9 | 3755.5 | 2663.0 | 1567.8 | 890.9  | 644.9  | 503.1  | 426.7  | 443.4  |
| 35°   | 11088.5 | 9479.0  | 5806.9 | 3590.1 | 2264.1 | 1043.8 | 594.9  | 411.4  | 316.9  | 314.1  | 332.2  |
| 37.5° | 12456.1 | 10714.6 | 6496.3 | 3405.2 | 1730.4 | 701.9  | 357.2  | 273.8  | 265.5  | 289.1  | 325.2  |
| 40°   | 13590.3 | 11718.1 | 7078.7 | 3146.7 | 1188.4 | 429.5  | 233.5  | 248.8  | 236.3  | 246.0  | 241.8  |
| 42.5° | 14643.8 | 12621.5 | 7551.2 | 2853.4 | 700.5  | 247.4  | 202.9  | 230.7  | 212.7  | 204.3  | 187.6  |
| 45°   | 15591.7 | 13473.5 | 7788.9 | 2392.0 | 408.6  | 197.4  | 184.9  | 218.2  | 205.7  | 190.4  | 165.4  |
| 47.5° | 16454.8 | 14221.3 | 7944.6 | 1761.0 | 234.9  | 172.3  | 172.3  | 196.0  | 193.2  | 175.1  | 161.2  |
| 50°   | 17349.9 | 14952.4 | 7929.3 | 1081.3 | 198.8  | 158.4  | 164.0  | 164.0  | 173.7  | 136.2  | 123.7  |
| 52.5° | 18140.8 | 15609.8 | 7612.4 | 612.9  | 183.5  | 150.1  | 148.7  | 133.4  | 141.8  | 105.6  | 98.7   |
| 55°   | 18782.9 | 16121.3 | 7080.1 | 404.5  | 173.7  | 148.7  | 130.6  | 115.4  | 108.4  | 76.4   | 79.2   |
| 57.5° | 19413.9 | 16607.7 | 6265.6 | 319.7  | 180.7  | 143.2  | 119.5  | 98.7   | 84.8   | 59.8   | 57.0   |
| 60°   | 20022.7 | 16995.5 | 5402.5 | 287.7  | 190.4  | 143.2  | 98.7   | 83.4   | 57.0   | 45.9   | 40.3   |
| 62.5° | 20391.0 | 17080.3 | 4447.6 | 259.9  | 196.0  | 133.4  | 89.0   | 68.1   | 41.7   | 30.6   | 27.8   |
| 63°   | 20417.4 | 17055.3 | 4278.1 | 255.7  | 197.4  | 133.4  | 89.0   | 65.3   | 40.3   | 27.8   | 25.0   |
| 65°   | 20377.1 | 16739.8 | 3616.5 | 241.8  | 201.5  | 127.9  | 84.8   | 52.8   | 32.0   | 19.5   | 16.7   |
| 67.5° | 19703.0 | 15684.8 | 2681.1 | 226.6  | 193.2  | 126.5  | 77.8   | 43.1   | 25.0   | 12.5   | 9.7    |
| 70°   | 18053.2 | 14047.6 | 1791.6 | 201.5  | 186.2  | 123.7  | 91.7   | 36.1   | 20.8   | 6.9    | 5.6    |
| 72.5° | 15748.8 | 12281.0 | 1199.5 | 165.4  | 162.6  | 101.5  | 55.6   | 30.6   | 15.3   | 2.8    | 0.0    |
| 75°   | 13310.9 | 9883.5  | 742.2  | 126.5  | 132.0  | 86.2   | 44.5   | 26.4   | 12.5   | 0.0    | 0.0    |
| 77.5° | 10361.6 | 7301.1  | 528.2  | 80.6   | 93.1   | 73.7   | 37.5   | 22.2   | 9.7    | 0.0    | 0.0    |
| 80°   | 7069.0  | 4948.0  | 382.2  | 44.5   | 48.6   | 48.6   | 30.6   | 16.7   | 5.6    | 0.0    | 0.0    |
| 82.5° | 4100.2  | 2772.8  | 194.6  | 22.2   | 20.8   | 25.0   | 13.9   | 8.3    | 1.4    | 0.0    | 0.0    |
| 85°   | 2000.0  | 1228.7  | 33.4   | 12.5   | 11.1   | 11.1   | 5.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 678.3   | 318.3   | 4.2    | 5.6    | 4.2    | 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)