

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: P622413

Luminaire Tested: **PRV-M-C200-D-U-T3-BZ-7030-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-C200-D-U-T3-BZ-7030-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44949 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

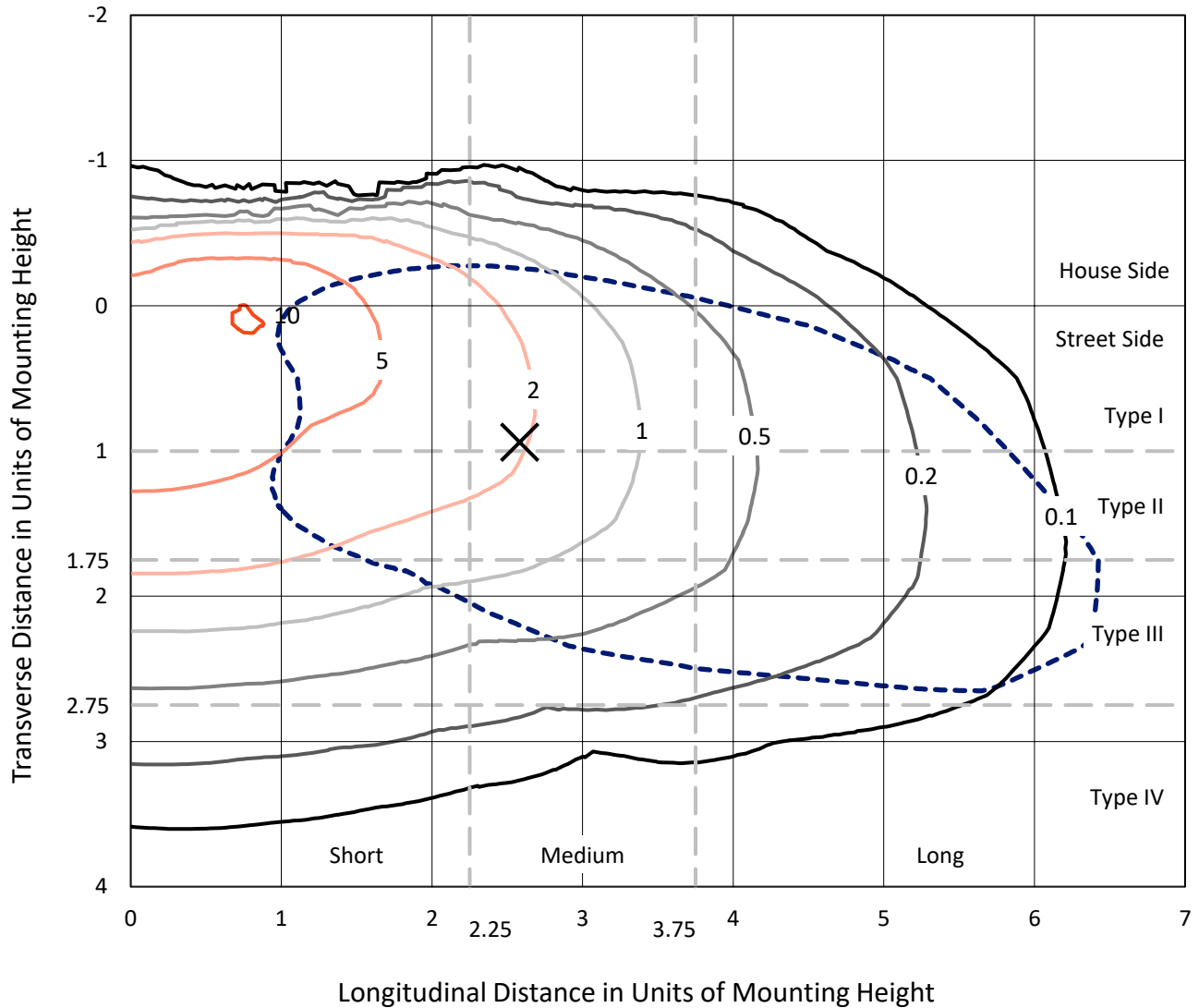
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

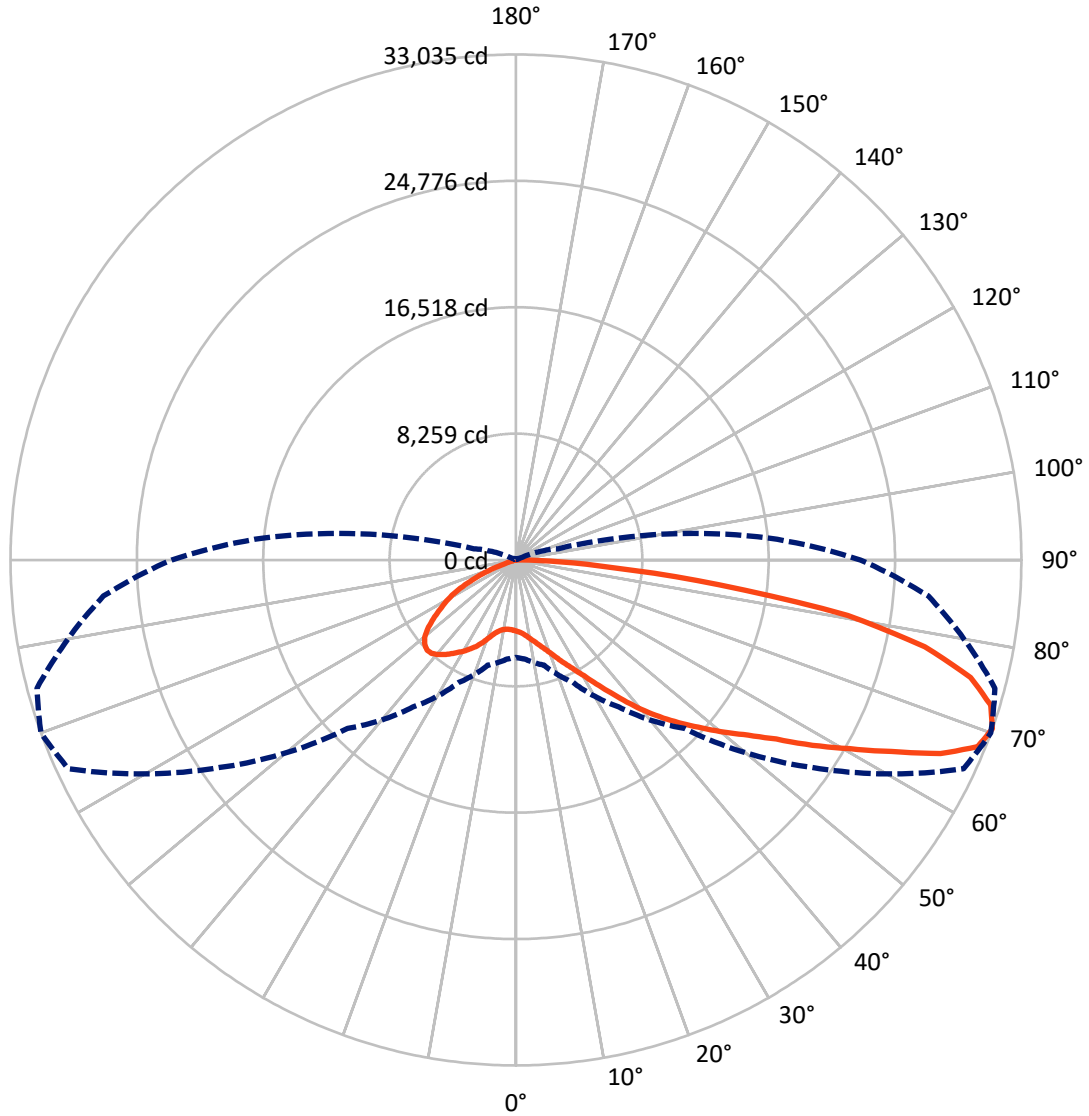
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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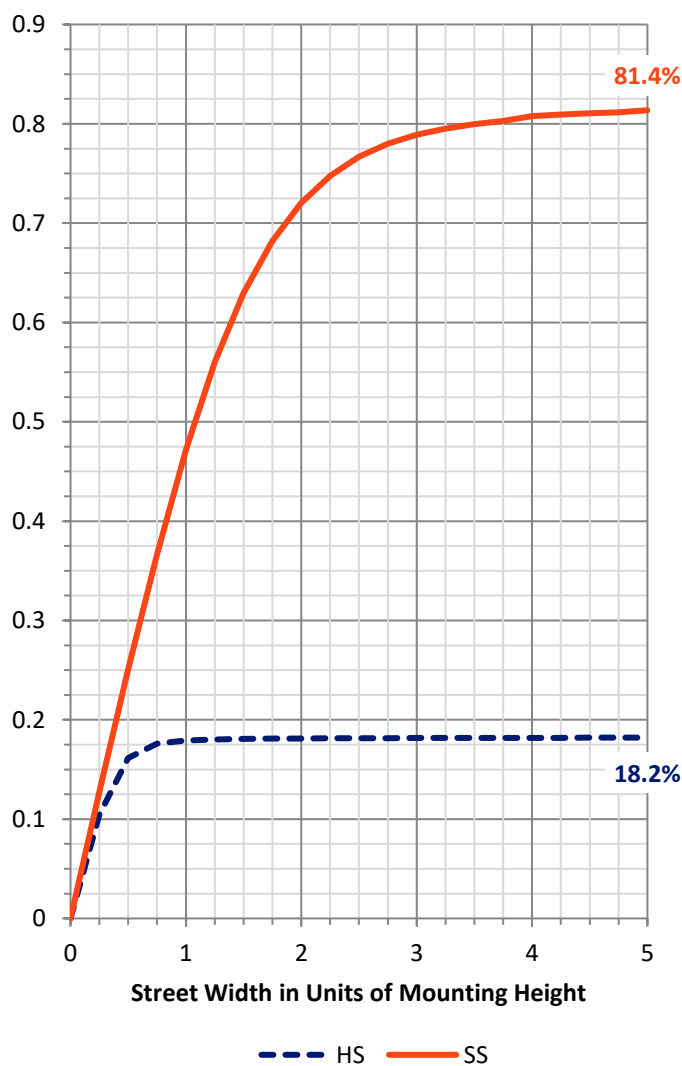
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8274.2   | 0.0    | 8274.2  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 36674.8  | 0.0    | 36674.8 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 44949.0  | 0.0    | 44949.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 446.9   | 1.0       |
| 10°-20°   | 1393.2  | 3.1       |
| 20°-30°   | 2566.8  | 5.7       |
| 30°-40°   | 4286.9  | 9.5       |
| 40°-50°   | 6688.2  | 14.9      |
| 50°-60°   | 9173.3  | 20.4      |
| 60°-70°   | 10887.3 | 24.2      |
| 70°-80°   | 8025.2  | 17.9      |
| 80°-90°   | 1481.1  | 3.3       |
| 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°    | 44949.0 | 100.0     |
| 0°-180°   | 44949.0 | 100.0     |

**Coefficient of Utilization**

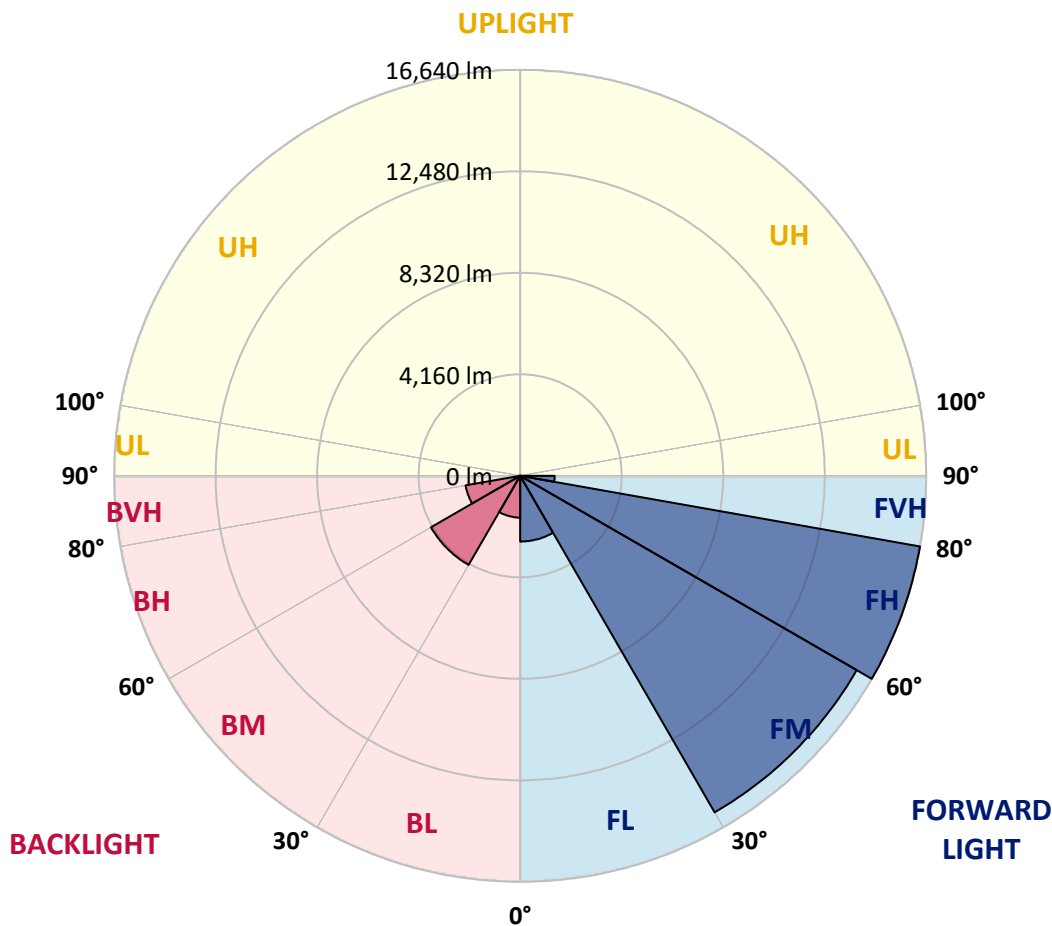


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2693.8  | 6.0       |                         |      |         |
| FM (30°-60°)   | 15928.1 | 35.4      |                         |      |         |
| FH (60°-80°)   | 16640.1 | 37.0      |                         |      | G5      |
| FVH (80°-90°)  | 1412.7  | 3.1       |                         |      | G5      |
| BL (0°-30°)    | 1713.1  | 3.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 4220.3  | 9.4       | B3/5000                 |      |         |
| BH (60°-80°)   | 2272.4  | 5.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 68.4    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4649.3  | 4649.3  | 4649.3  | 4649.3  | 4649.3  | 4649.3  | 4649.3  | 4649.3  | 4649.3  | 4649.3  | 4649.3  |
| 2.5°  | 4851.6  | 4859.4  | 4878.1  | 4841.7  | 4841.7  | 4781.9  | 4777.9  | 4758.3  | 4723.9  | 4711.2  | 4693.5  |
| 5°    | 5067.6  | 5082.3  | 5084.3  | 5056.8  | 5036.2  | 4975.3  | 4937.0  | 4897.7  | 4848.6  | 4823.1  | 4768.1  |
| 7.5°  | 5234.5  | 5245.3  | 5267.9  | 5250.2  | 5238.4  | 5158.9  | 5138.3  | 5087.2  | 5019.5  | 4977.3  | 4888.9  |
| 10°   | 5349.4  | 5384.7  | 5403.4  | 5399.5  | 5424.0  | 5366.1  | 5359.2  | 5303.2  | 5235.5  | 5176.6  | 5069.5  |
| 12.5° | 5437.8  | 5468.2  | 5507.5  | 5535.0  | 5581.1  | 5580.1  | 5578.2  | 5544.8  | 5484.9  | 5407.3  | 5283.6  |
| 15°   | 5503.5  | 5540.9  | 5605.7  | 5670.5  | 5750.0  | 5773.6  | 5841.3  | 5832.5  | 5772.6  | 5704.8  | 5548.7  |
| 17.5° | 5653.8  | 5687.2  | 5739.2  | 5816.8  | 5924.8  | 5993.5  | 6106.4  | 6141.8  | 6113.3  | 6043.6  | 5869.8  |
| 20°   | 5874.7  | 5882.6  | 5933.6  | 6004.3  | 6124.1  | 6264.5  | 6464.8  | 6554.2  | 6495.3  | 6465.8  | 6300.9  |
| 22.5° | 6135.9  | 6159.5  | 6166.3  | 6231.1  | 6349.0  | 6556.1  | 6831.1  | 6979.3  | 6989.2  | 6920.4  | 6799.7  |
| 25°   | 6434.4  | 6442.2  | 6428.5  | 6481.5  | 6649.4  | 6891.0  | 7217.0  | 7453.6  | 7514.5  | 7496.8  | 7461.5  |
| 27.5° | 6749.6  | 6797.7  | 6798.7  | 6815.4  | 6970.5  | 7233.7  | 7650.0  | 8027.0  | 8106.6  | 8144.9  | 8302.0  |
| 30°   | 7529.2  | 7548.8  | 7468.3  | 7324.0  | 7370.1  | 7657.8  | 8144.9  | 8639.7  | 8779.2  | 8945.1  | 9402.7  |
| 32.5° | 8520.9  | 8484.6  | 8366.8  | 8105.6  | 7914.1  | 8140.9  | 8667.2  | 9309.4  | 9650.1  | 10024.2 | 10498.5 |
| 35°   | 9484.2  | 9458.6  | 9365.4  | 9104.2  | 8774.3  | 8667.2  | 9223.0  | 10089.0 | 10648.7 | 11386.1 | 11782.8 |
| 37.5° | 10386.5 | 10412.1 | 10342.4 | 10085.1 | 9708.0  | 9447.8  | 9839.6  | 10906.9 | 11781.8 | 12739.2 | 13074.0 |
| 40°   | 11269.3 | 11290.9 | 11267.3 | 11039.5 | 10821.5 | 10451.3 | 10552.5 | 11780.8 | 12968.0 | 14032.3 | 14311.2 |
| 42.5° | 11965.4 | 12045.9 | 12133.3 | 11883.0 | 11779.9 | 11557.0 | 11300.7 | 12586.0 | 14124.6 | 15265.6 | 15469.8 |
| 45°   | 12551.6 | 12539.8 | 12639.0 | 12647.9 | 12690.1 | 12588.0 | 12260.0 | 13483.5 | 15248.9 | 16442.9 | 16491.0 |
| 47.5° | 12975.8 | 12931.6 | 13027.8 | 13302.8 | 13566.9 | 13540.4 | 13371.5 | 14401.5 | 16407.5 | 17564.2 | 17502.4 |
| 50°   | 13198.7 | 13201.6 | 13426.5 | 13877.2 | 14403.5 | 14545.9 | 14497.8 | 15719.2 | 17704.6 | 18771.0 | 18540.2 |
| 52.5° | 13373.5 | 13448.1 | 13815.3 | 14399.6 | 15252.8 | 15569.0 | 15646.6 | 17352.1 | 19006.6 | 19959.1 | 19521.2 |
| 55°   | 13452.0 | 13580.7 | 13996.0 | 14735.4 | 15863.6 | 16514.6 | 16819.9 | 19064.6 | 20654.3 | 21438.8 | 20570.8 |
| 57.5° | 13038.6 | 13190.8 | 13821.2 | 14821.8 | 16282.8 | 17236.3 | 18033.6 | 21094.2 | 22849.8 | 23065.8 | 21803.1 |
| 60°   | 12067.6 | 12167.7 | 13175.1 | 14643.1 | 16379.1 | 17899.1 | 19429.8 | 23566.6 | 25037.5 | 24985.4 | 23075.6 |
| 62.5° | 11115.1 | 11176.0 | 12098.0 | 13966.5 | 16110.0 | 18223.1 | 20852.6 | 26317.9 | 27561.0 | 27019.9 | 24322.6 |
| 65°   | 9813.1  | 9909.3  | 10946.2 | 12737.2 | 15262.7 | 18073.8 | 22363.8 | 29219.4 | 30504.7 | 29978.4 | 25680.6 |
| 67.5° | 8258.8  | 8358.9  | 9233.8  | 10952.1 | 13883.1 | 17295.2 | 23205.2 | 31420.8 | 32544.1 | 31884.3 | 26623.2 |
| 70°   | 6371.5  | 6492.3  | 7118.8  | 8831.2  | 11733.7 | 15575.9 | 23644.2 | 32279.0 | 33035.0 | 32407.6 | 27058.2 |
| 72.5° | 4429.4  | 4545.2  | 4929.1  | 6019.0  | 8946.1  | 13080.9 | 23244.5 | 32115.0 | 32443.0 | 31863.6 | 26186.3 |
| 75°   | 2846.5  | 3012.5  | 3321.8  | 4022.8  | 5273.8  | 9456.7  | 20823.2 | 30502.7 | 30690.3 | 29828.2 | 23935.8 |
| 77.5° | 433.0   | 493.9   | 1811.6  | 2357.5  | 3325.7  | 4536.4  | 14761.9 | 26994.4 | 27326.3 | 26336.5 | 20783.9 |
| 80°   | 305.4   | 316.2   | 781.6   | 1518.0  | 2008.0  | 2535.3  | 6845.8  | 19621.3 | 21989.7 | 20742.6 | 14649.0 |
| 82.5° | 218.0   | 235.7   | 371.2   | 992.7   | 1120.3  | 972.1   | 2228.9  | 11123.9 | 13347.0 | 13279.2 | 7810.0  |
| 85°   | 137.5   | 152.2   | 225.8   | 341.7   | 604.9   | 571.5   | 714.8   | 4577.6  | 6232.1  | 6254.7  | 3042.9  |
| 87.5° | 72.7    | 79.5    | 131.6   | 201.3   | 284.8   | 318.1   | 349.6   | 1305.9  | 2197.5  | 2092.4  | 676.5   |
| 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°    | 4649.3  | 4649.3  | 4649.3  | 4649.3 | 4649.3 | 4649.3 | 4649.3 | 4649.3 | 4649.3 | 4649.3 | 4649.3 |
| 2.5°  | 4663.0  | 4648.3  | 4617.9  | 4565.8 | 4514.8 | 4479.4 | 4471.6 | 4420.5 | 4414.6 | 4419.5 | 4417.6 |
| 5°    | 4722.0  | 4686.6  | 4608.1  | 4504.0 | 4401.9 | 4318.4 | 4259.5 | 4174.1 | 4135.8 | 4122.0 | 4138.7 |
| 7.5°  | 4828.0  | 4767.1  | 4639.5  | 4479.4 | 4315.5 | 4172.1 | 4057.2 | 3945.3 | 3890.3 | 3849.0 | 3817.6 |
| 10°   | 4981.2  | 4897.7  | 4710.2  | 4487.3 | 4261.4 | 4065.1 | 3882.4 | 3723.4 | 3613.4 | 3551.5 | 3532.9 |
| 12.5° | 5186.4  | 5072.5  | 4825.1  | 4542.3 | 4247.7 | 3976.7 | 3727.3 | 3503.4 | 3355.2 | 3270.7 | 3255.0 |
| 15°   | 5420.1  | 5308.2  | 5013.6  | 4668.0 | 4307.6 | 3960.0 | 3639.9 | 3354.2 | 3113.6 | 2992.8 | 2958.5 |
| 17.5° | 5730.4  | 5605.7  | 5287.5  | 4886.9 | 4448.0 | 4003.2 | 3572.2 | 3167.6 | 2830.8 | 2667.8 | 2646.2 |
| 20°   | 6165.3  | 6032.8  | 5678.3  | 5177.6 | 4632.6 | 4046.4 | 3474.9 | 2951.6 | 2512.7 | 2293.7 | 2244.6 |
| 22.5° | 6681.8  | 6564.0  | 6151.6  | 5481.9 | 4778.9 | 4034.6 | 3321.8 | 2635.4 | 2090.5 | 1840.1 | 1796.9 |
| 25°   | 7389.8  | 7275.9  | 6639.6  | 5734.3 | 4852.5 | 3949.2 | 3062.5 | 2205.3 | 1578.9 | 1319.7 | 1303.0 |
| 27.5° | 8250.9  | 8000.5  | 7071.6  | 5938.5 | 4825.1 | 3727.3 | 2638.4 | 1603.4 | 1061.4 | 857.2  | 832.7  |
| 30°   | 9168.0  | 8771.3  | 7554.7  | 6103.5 | 4747.5 | 3374.8 | 2011.9 | 1056.5 | 665.7  | 560.7  | 539.1  |
| 32.5° | 10241.2 | 9707.1  | 8013.3  | 6215.4 | 4569.8 | 2881.9 | 1369.8 | 649.0  | 421.2  | 358.4  | 354.5  |
| 35°   | 11372.4 | 10691.9 | 8579.8  | 6275.3 | 4248.7 | 2226.0 | 783.6  | 379.0  | 263.1  | 256.3  | 256.3  |
| 37.5° | 12578.1 | 11759.2 | 9194.5  | 6284.2 | 3761.7 | 1463.0 | 453.6  | 226.8  | 202.3  | 232.7  | 244.5  |
| 40°   | 13681.8 | 12725.4 | 9817.0  | 6201.7 | 3142.1 | 836.6  | 250.4  | 172.8  | 181.7  | 215.0  | 225.8  |
| 42.5° | 14738.3 | 13660.2 | 10427.8 | 6006.3 | 2253.5 | 459.5  | 176.7  | 151.2  | 161.0  | 178.7  | 182.6  |
| 45°   | 15684.9 | 14500.7 | 10890.3 | 5646.9 | 1397.2 | 258.2  | 160.0  | 132.6  | 133.5  | 146.3  | 148.3  |
| 47.5° | 16601.0 | 15284.3 | 11182.9 | 5095.1 | 722.7  | 213.1  | 146.3  | 119.8  | 116.8  | 129.6  | 133.5  |
| 50°   | 17470.9 | 16014.8 | 11355.7 | 4341.0 | 372.1  | 197.4  | 138.4  | 110.0  | 111.0  | 135.5  | 137.5  |
| 52.5° | 18313.4 | 16711.9 | 11398.9 | 3265.8 | 257.3  | 177.7  | 126.7  | 103.1  | 107.0  | 140.4  | 145.3  |
| 55°   | 19219.7 | 17442.5 | 11302.7 | 1958.9 | 242.5  | 163.0  | 114.9  | 93.3   | 101.1  | 113.9  | 115.9  |
| 57.5° | 20049.4 | 18167.1 | 10945.2 | 830.7  | 229.8  | 149.2  | 104.1  | 85.4   | 81.5   | 92.3   | 96.2   |
| 60°   | 20966.5 | 18856.4 | 10092.9 | 391.8  | 214.1  | 133.5  | 93.3   | 75.6   | 69.7   | 76.6   | 80.5   |
| 62.5° | 22247.9 | 19373.9 | 8639.7  | 294.6  | 201.3  | 123.7  | 83.5   | 68.7   | 62.8   | 66.8   | 70.7   |
| 65°   | 22942.1 | 19423.9 | 6747.6  | 257.3  | 191.5  | 115.9  | 76.6   | 64.8   | 56.0   | 57.9   | 61.9   |
| 67.5° | 23209.2 | 18437.1 | 4892.8  | 223.9  | 177.7  | 108.0  | 70.7   | 60.9   | 52.0   | 50.1   | 52.0   |
| 70°   | 22514.0 | 16536.2 | 2843.6  | 206.2  | 161.0  | 100.2  | 66.8   | 58.9   | 48.1   | 42.2   | 42.2   |
| 72.5° | 20487.3 | 13928.3 | 1178.3  | 183.6  | 143.4  | 89.4   | 62.8   | 60.9   | 46.1   | 33.4   | 33.4   |
| 75°   | 17645.7 | 10852.9 | 351.5   | 152.2  | 122.7  | 81.5   | 62.8   | 62.8   | 45.2   | 25.5   | 25.5   |
| 77.5° | 14011.7 | 6766.3  | 209.1   | 118.8  | 97.2   | 72.7   | 61.9   | 59.9   | 34.4   | 19.6   | 18.7   |
| 80°   | 7964.2  | 2400.7  | 152.2   | 88.4   | 74.6   | 59.9   | 55.0   | 49.1   | 25.5   | 16.7   | 16.7   |
| 82.5° | 3182.3  | 544.0   | 108.0   | 62.8   | 60.9   | 46.1   | 36.3   | 28.5   | 20.6   | 14.7   | 14.7   |
| 85°   | 834.6   | 171.8   | 64.8    | 41.2   | 37.3   | 34.4   | 12.8   | 11.8   | 16.7   | 13.7   | 13.7   |
| 87.5° | 137.5   | 68.7    | 34.4    | 31.4   | 23.6   | 16.7   | 5.9    | 5.9    | 9.8    | 11.8   | 12.8   |
| 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)