

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: P622764

Luminaire Tested: **PRV-M-PA6C-740-U-T2R-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6C-740-U-T2R-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE  
SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

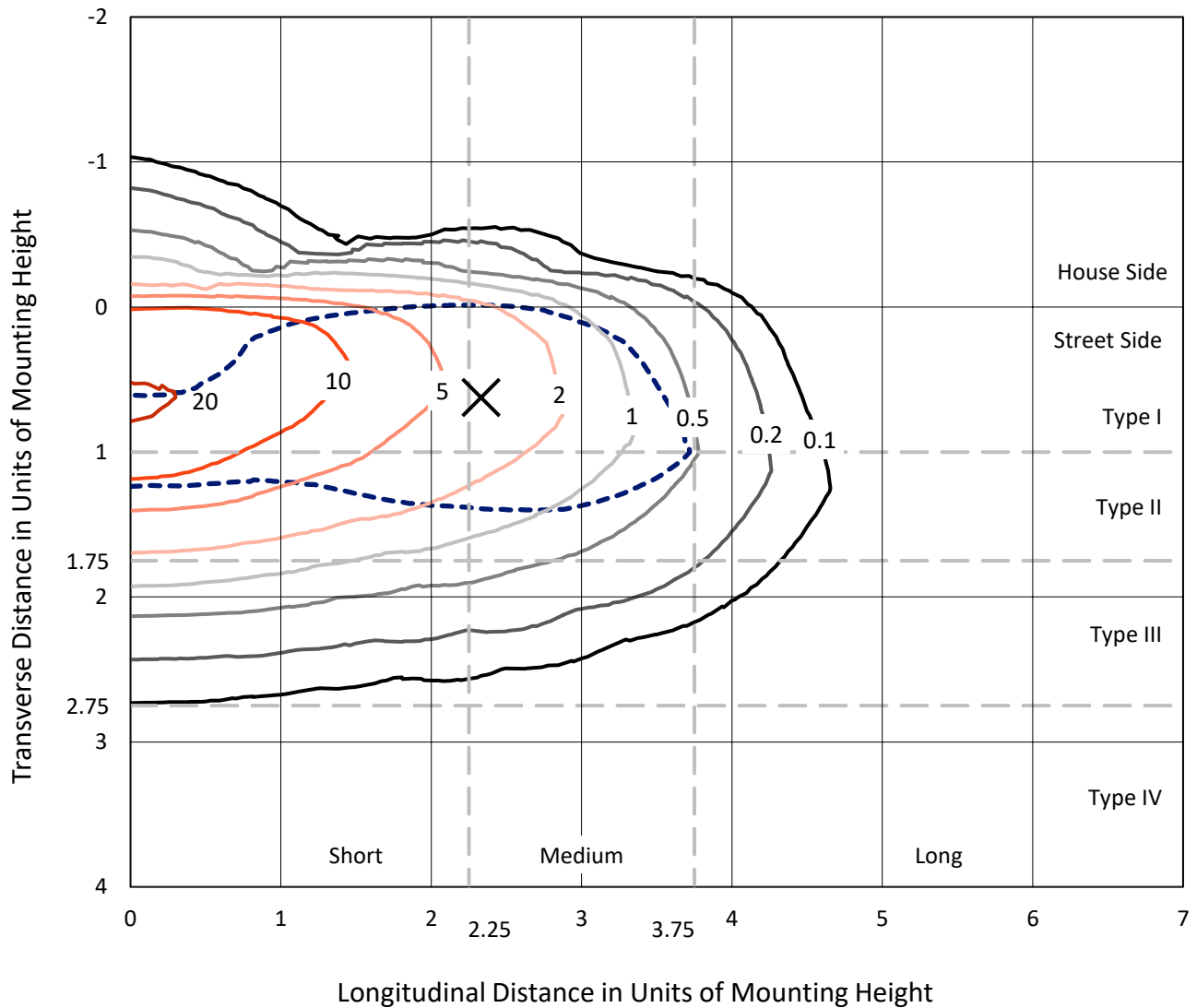
Lumens per Lamp: N/A  
Luminaire Lumens: 48919 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 457.2  
Input Voltage (V): NR  
Input Current (Ain): 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

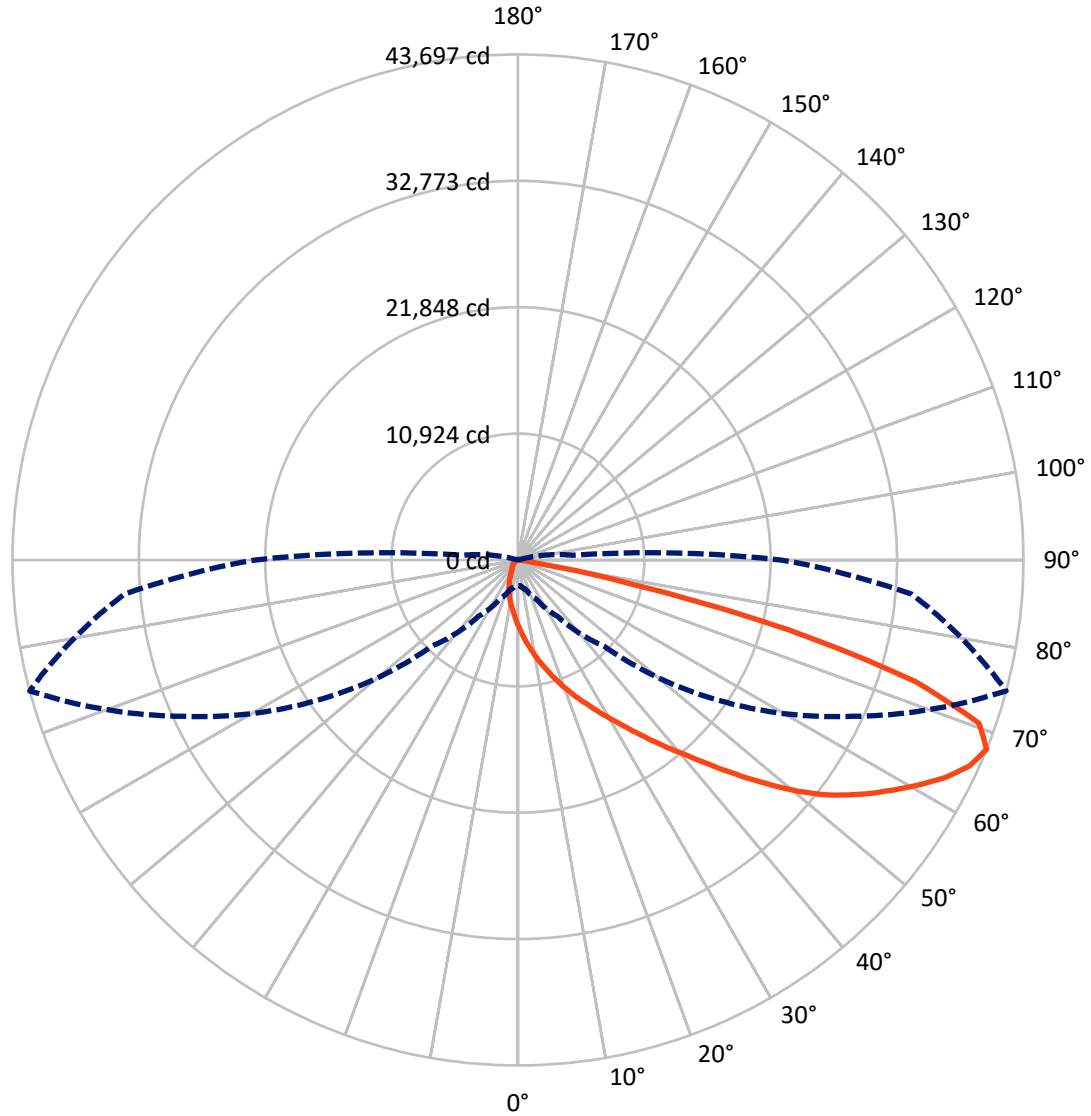
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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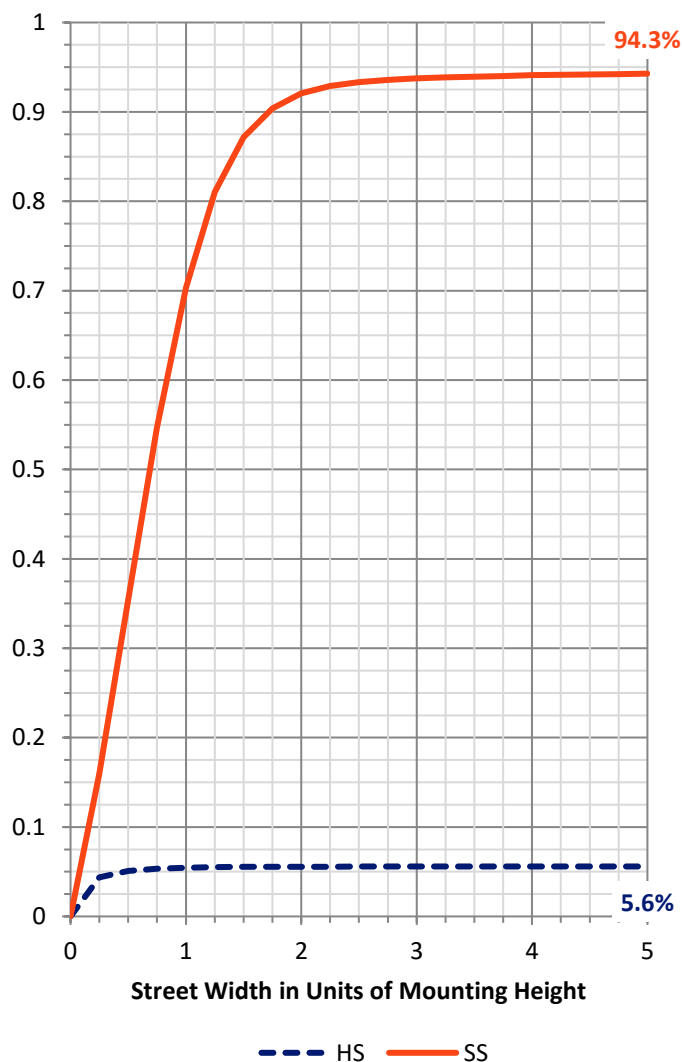
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2750.9   | 0.0    | 2750.9  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 46168.1  | 0.0    | 46168.1 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 48919.0  | 0.0    | 48919.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 559.5   | 1.1       |
| 10°-20°   | 1887.6  | 3.9       |
| 20°-30°   | 3754.3  | 7.7       |
| 30°-40°   | 6806.4  | 13.9      |
| 40°-50°   | 10190.3 | 20.8      |
| 50°-60°   | 11613.5 | 23.7      |
| 60°-70°   | 9865.4  | 20.2      |
| 70°-80°   | 4070.3  | 8.3       |
| 80°-90°   | 171.8   | 0.4       |
| 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°    | 48919.0 | 100.0     |
| 0°-180°   | 48919.0 | 100.0     |

**Coefficient of Utilization**



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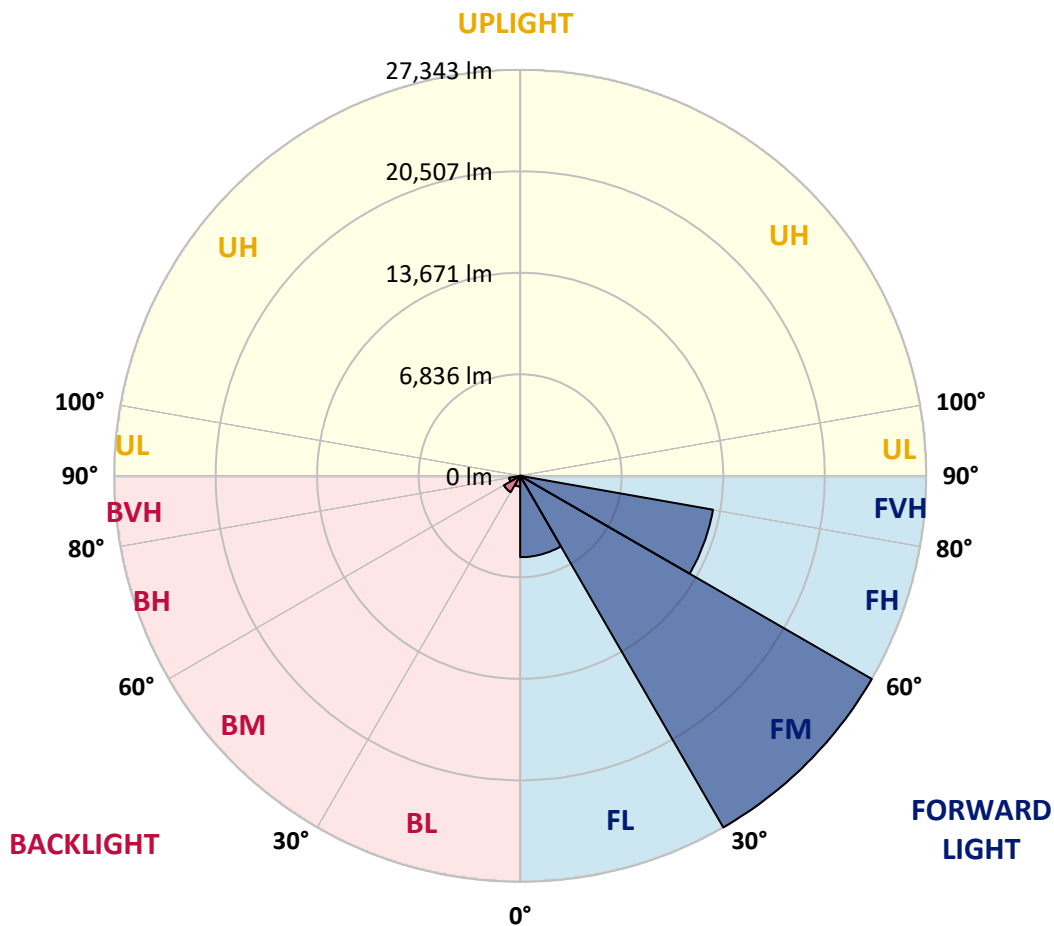
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5479.9  | 11.2      |                         |      |         |
| FM (30°-60°)   | 27342.7 | 55.9      |                         |      |         |
| FH (60°-80°)   | 13182.2 | 26.9      |                         |      | G5      |
| FVH (80°-90°)  | 163.3   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 721.5   | 1.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1267.5  | 2.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 753.5   | 1.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 8.4     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5694.8  | 5694.8  | 5694.8  | 5694.8  | 5694.8  | 5694.8  | 5694.8  | 5694.8  | 5694.8  | 5694.8  | 5694.8  |
| 2.5°  | 7907.5  | 7812.3  | 7883.7  | 7800.4  | 7601.0  | 7352.5  | 7074.2  | 6723.0  | 6337.6  | 5952.2  | 5757.3  |
| 5°    | 9545.9  | 9350.9  | 9364.3  | 9258.7  | 9035.5  | 8702.1  | 8292.9  | 7697.7  | 7010.2  | 6239.4  | 5840.6  |
| 7.5°  | 10410.4 | 10243.8 | 10258.7 | 10182.8 | 10025.0 | 9746.8  | 9342.0  | 8636.7  | 7721.5  | 6596.5  | 5989.4  |
| 10°   | 11087.5 | 10983.3 | 11016.1 | 10971.4 | 10856.8 | 10633.6 | 10276.5 | 9565.2  | 8474.5  | 7025.1  | 6196.3  |
| 12.5° | 11780.9 | 11669.3 | 11731.8 | 11714.0 | 11644.0 | 11487.8 | 11127.7 | 10480.4 | 9255.7  | 7496.8  | 6429.9  |
| 15°   | 12193.1 | 12054.7 | 12184.2 | 12315.1 | 12400.0 | 12344.9 | 12072.6 | 11397.0 | 10097.9 | 7996.8  | 6678.4  |
| 17.5° | 12385.1 | 12270.5 | 12450.6 | 12675.3 | 12965.4 | 13121.7 | 12943.1 | 12359.8 | 10984.8 | 8548.9  | 6973.0  |
| 20°   | 12827.0 | 12722.9 | 12886.6 | 13123.2 | 13437.1 | 13760.0 | 13807.7 | 13352.3 | 11895.5 | 9144.1  | 7291.5  |
| 22.5° | 13855.3 | 13736.2 | 13807.7 | 13849.3 | 14062.1 | 14368.7 | 14577.0 | 14359.7 | 12834.5 | 9773.5  | 7627.8  |
| 25°   | 15635.0 | 15463.9 | 15377.6 | 15082.9 | 15062.1 | 15151.4 | 15283.8 | 15374.6 | 13782.4 | 10425.3 | 7959.6  |
| 27.5° | 18063.5 | 17838.8 | 17536.7 | 16803.1 | 16434.1 | 16222.8 | 16074.0 | 16390.9 | 14852.3 | 11054.8 | 8307.8  |
| 30°   | 20591.7 | 20309.0 | 19935.5 | 19048.6 | 18182.5 | 17623.0 | 17072.5 | 17432.6 | 15984.7 | 11804.7 | 8681.3  |
| 32.5° | 22770.2 | 22442.8 | 21951.8 | 21050.0 | 20142.3 | 19277.8 | 18344.7 | 18484.6 | 17257.0 | 12638.1 | 9111.4  |
| 35°   | 24499.3 | 24103.5 | 23701.7 | 22807.4 | 21993.5 | 21075.3 | 19871.5 | 19596.2 | 18742.1 | 13584.5 | 9647.1  |
| 37.5° | 25727.0 | 25305.9 | 24859.4 | 24082.7 | 23505.3 | 22887.8 | 21682.4 | 20907.2 | 20334.3 | 14691.6 | 10292.9 |
| 40°   | 26460.6 | 26015.7 | 25649.6 | 25090.1 | 24673.4 | 24497.8 | 23688.3 | 22445.8 | 22050.0 | 15983.2 | 11100.9 |
| 42.5° | 26744.8 | 26313.3 | 26054.4 | 25648.1 | 25478.5 | 25738.9 | 25645.1 | 24375.8 | 24112.4 | 17532.3 | 12069.6 |
| 45°   | 26552.9 | 26157.0 | 26002.3 | 25814.8 | 25901.1 | 26613.9 | 27496.3 | 26491.8 | 26430.8 | 19271.8 | 13191.6 |
| 47.5° | 25600.5 | 25288.0 | 25393.7 | 25542.5 | 25899.6 | 27109.4 | 28999.2 | 28758.1 | 28871.2 | 21262.8 | 14478.8 |
| 50°   | 23514.2 | 23338.7 | 23820.8 | 24582.7 | 25421.9 | 27229.9 | 30161.4 | 30909.9 | 31436.6 | 23366.9 | 15892.4 |
| 52.5° | 19359.6 | 19474.2 | 21036.6 | 22672.0 | 24298.4 | 26910.0 | 30801.2 | 32784.8 | 33775.9 | 25279.1 | 17198.9 |
| 55°   | 14859.7 | 14801.7 | 16789.7 | 19803.0 | 22361.0 | 25969.5 | 30962.0 | 33917.2 | 35790.7 | 27104.9 | 18410.2 |
| 57.5° | 11495.2 | 11447.6 | 12626.1 | 15966.8 | 19393.8 | 24241.9 | 30732.8 | 34616.6 | 37680.5 | 28848.9 | 19636.4 |
| 60°   | 8840.5  | 8812.3  | 9702.1  | 11914.9 | 15693.0 | 21742.0 | 29883.1 | 34952.9 | 39591.2 | 30746.2 | 20884.9 |
| 62.5° | 6343.6  | 6380.8  | 7142.7  | 8853.9  | 12181.2 | 18234.6 | 28154.0 | 34743.1 | 41428.9 | 32429.2 | 22038.1 |
| 65°   | 3937.4  | 3979.1  | 4629.3  | 6168.0  | 8772.1  | 14219.9 | 25240.4 | 33836.9 | 42911.0 | 33674.7 | 22856.5 |
| 67.5° | 2217.2  | 2238.0  | 2654.7  | 3739.5  | 5935.9  | 10532.5 | 21133.4 | 31970.9 | 43696.7 | 34198.5 | 22739.0 |
| 70°   | 1494.0  | 1501.4  | 1625.0  | 2061.0  | 3416.6  | 7081.7  | 15992.1 | 28524.5 | 42286.1 | 32457.5 | 20551.5 |
| 72.5° | 1191.9  | 1196.4  | 1282.7  | 1386.9  | 1958.3  | 4388.3  | 10731.9 | 23094.6 | 35946.9 | 25727.0 | 15097.8 |
| 75°   | 880.9   | 900.3   | 1062.5  | 1122.0  | 1327.3  | 2397.3  | 5772.2  | 15135.0 | 24265.7 | 14449.0 | 8209.6  |
| 77.5° | 741.1   | 745.5   | 797.6   | 925.6   | 1013.4  | 1360.1  | 1940.4  | 6688.8  | 10035.4 | 4269.2  | 2116.0  |
| 80°   | 501.5   | 501.5   | 593.7   | 680.0   | 772.3   | 895.8   | 766.3   | 1821.4  | 1858.6  | 689.0   | 392.8   |
| 82.5° | 351.2   | 363.1   | 425.6   | 574.4   | 628.0   | 480.6   | 392.8   | 504.5   | 428.6   | 227.7   | 123.5   |
| 85°   | 96.7    | 119.0   | 291.7   | 427.1   | 334.8   | 145.8   | 236.6   | 199.4   | 147.3   | 84.8    | 52.1    |
| 87.5° | 14.9    | 17.9    | 139.9   | 128.0   | 90.8    | 26.8    | 81.8    | 34.2    | 46.1    | 32.7    | 25.3    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5694.8 | 5694.8 | 5694.8 | 5694.8 | 5694.8 | 5694.8 | 5694.8 | 5694.8 | 5694.8 | 5694.8 |
| 2.5°  | 5547.5 | 5160.6 | 4746.9 | 4385.3 | 4077.3 | 3796.0 | 3659.1 | 3470.1 | 3467.2 | 3334.7 |
| 5°    | 5422.5 | 4608.5 | 3885.3 | 3273.7 | 2785.6 | 2435.9 | 2220.2 | 2038.6 | 1953.8 | 1919.6 |
| 7.5°  | 5348.1 | 4154.6 | 3165.1 | 2419.6 | 1907.7 | 1613.1 | 1444.9 | 1376.5 | 1339.2 | 1321.4 |
| 10°   | 5330.2 | 3758.8 | 2549.0 | 1791.6 | 1419.6 | 1279.7 | 1223.2 | 1189.0 | 1175.6 | 1162.2 |
| 12.5° | 5319.8 | 3369.0 | 2059.5 | 1418.1 | 1236.6 | 1156.2 | 1105.6 | 1068.4 | 1052.1 | 1040.2 |
| 15°   | 5313.8 | 2977.6 | 1656.2 | 1247.0 | 1129.4 | 1050.6 | 989.6  | 953.8  | 931.5  | 919.6  |
| 17.5° | 5322.8 | 2626.4 | 1379.4 | 1151.8 | 1038.7 | 941.9  | 879.4  | 833.3  | 815.5  | 799.1  |
| 20°   | 5339.1 | 2269.3 | 1233.6 | 1065.4 | 940.5  | 834.8  | 769.3  | 720.2  | 694.9  | 686.0  |
| 22.5° | 5346.6 | 1918.1 | 1133.9 | 971.7  | 837.8  | 729.1  | 660.7  | 619.0  | 596.7  | 587.8  |
| 25°   | 5325.7 | 1611.6 | 1038.7 | 872.0  | 736.6  | 632.4  | 565.5  | 531.2  | 519.3  | 510.4  |
| 27.5° | 5276.6 | 1351.2 | 943.4  | 770.8  | 644.3  | 550.6  | 495.5  | 464.3  | 455.3  | 453.9  |
| 30°   | 5194.8 | 1148.8 | 848.2  | 678.6  | 562.5  | 480.6  | 433.0  | 407.7  | 403.3  | 400.3  |
| 32.5° | 5118.9 | 1011.9 | 760.4  | 599.7  | 494.0  | 419.6  | 378.0  | 361.6  | 358.6  | 358.6  |
| 35°   | 5040.0 | 909.2  | 674.1  | 528.3  | 433.0  | 369.0  | 334.8  | 319.9  | 322.9  | 321.4  |
| 37.5° | 4980.5 | 819.9  | 607.1  | 470.2  | 379.5  | 321.4  | 291.7  | 281.2  | 287.2  | 287.2  |
| 40°   | 4944.8 | 748.5  | 538.7  | 416.7  | 331.8  | 279.8  | 254.5  | 247.0  | 257.4  | 258.9  |
| 42.5° | 4943.3 | 680.0  | 483.6  | 367.5  | 288.7  | 244.0  | 221.7  | 214.3  | 226.2  | 229.2  |
| 45°   | 4971.6 | 626.5  | 430.0  | 321.4  | 253.0  | 211.3  | 187.5  | 180.1  | 193.4  | 194.9  |
| 47.5° | 5087.7 | 581.8  | 382.4  | 282.7  | 221.7  | 183.0  | 154.8  | 147.3  | 162.2  | 163.7  |
| 50°   | 5279.6 | 522.3  | 330.3  | 247.0  | 193.4  | 154.8  | 125.0  | 119.0  | 135.4  | 136.9  |
| 52.5° | 5461.2 | 465.8  | 282.7  | 212.8  | 168.2  | 128.0  | 99.7   | 96.7   | 113.1  | 116.1  |
| 55°   | 5541.5 | 409.2  | 242.6  | 183.0  | 145.8  | 105.7  | 78.9   | 80.4   | 96.7   | 99.7   |
| 57.5° | 5584.7 | 361.6  | 209.8  | 157.7  | 126.5  | 86.3   | 67.0   | 68.5   | 83.3   | 86.3   |
| 60°   | 5618.9 | 314.0  | 184.5  | 138.4  | 110.1  | 72.9   | 58.0   | 56.5   | 68.5   | 71.4   |
| 62.5° | 5601.0 | 269.3  | 162.2  | 120.5  | 93.7   | 64.0   | 49.1   | 44.6   | 52.1   | 53.6   |
| 65°   | 5374.9 | 233.6  | 139.9  | 102.7  | 80.4   | 53.6   | 38.7   | 26.8   | 31.2   | 32.7   |
| 67.5° | 4740.9 | 205.4  | 119.0  | 87.8   | 65.5   | 46.1   | 28.3   | 17.9   | 20.8   | 22.3   |
| 70°   | 3538.6 | 175.6  | 96.7   | 72.9   | 53.6   | 37.2   | 20.8   | 11.9   | 14.9   | 16.4   |
| 72.5° | 1912.2 | 144.3  | 77.4   | 56.5   | 40.2   | 28.3   | 13.4   | 7.4    | 8.9    | 8.9    |
| 75°   | 790.2  | 104.2  | 58.0   | 38.7   | 28.3   | 20.8   | 10.4   | 3.0    | 3.0    | 3.0    |
| 77.5° | 293.1  | 64.0   | 37.2   | 29.8   | 22.3   | 16.4   | 7.4    | 1.5    | 0.0    | 0.0    |
| 80°   | 133.9  | 34.2   | 28.3   | 23.8   | 17.9   | 13.4   | 6.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 62.5   | 23.8   | 22.3   | 19.3   | 14.9   | 10.4   | 4.5    | 0.0    | 0.0    | 0.0    |
| 85°   | 29.8   | 19.3   | 20.8   | 17.9   | 14.9   | 8.9    | 3.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 17.9   | 20.8   | 20.8   | 17.9   | 14.9   | 8.9    | 1.5    | 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    |

(END OF REPORT)