

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: P380876

Luminaire Tested: **PRV-PA1A-750-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA1A-750-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7604.9 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

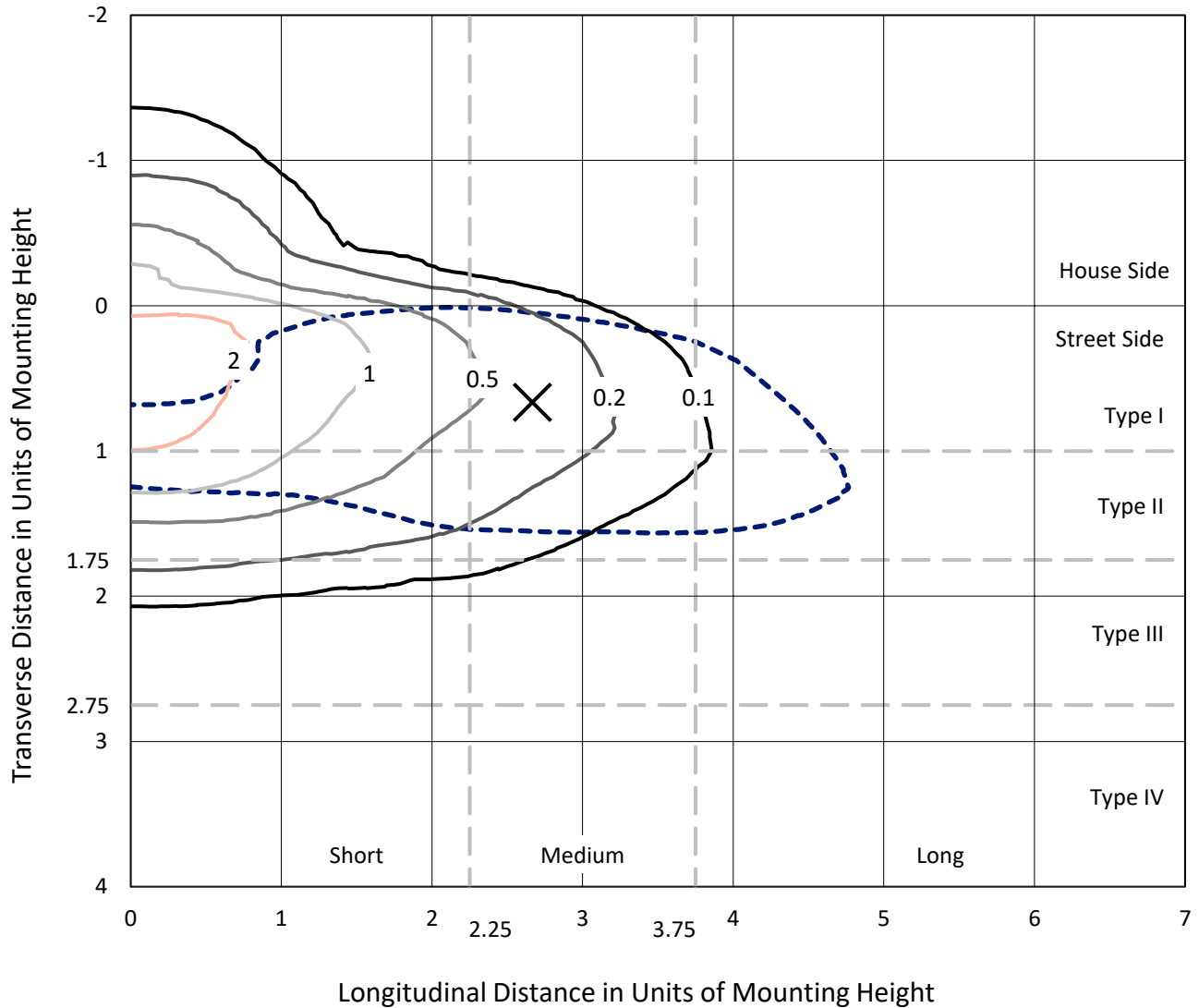
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

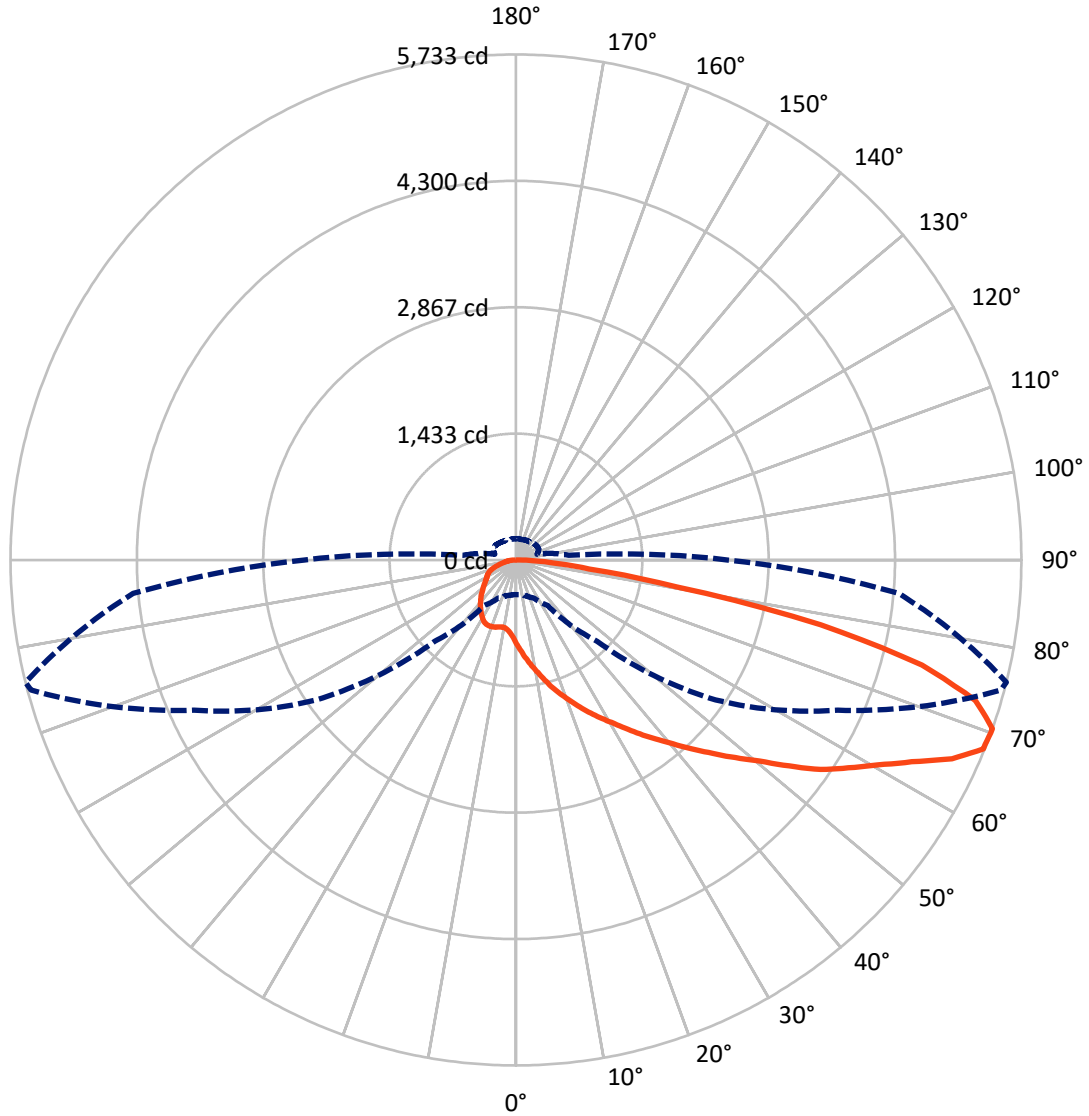
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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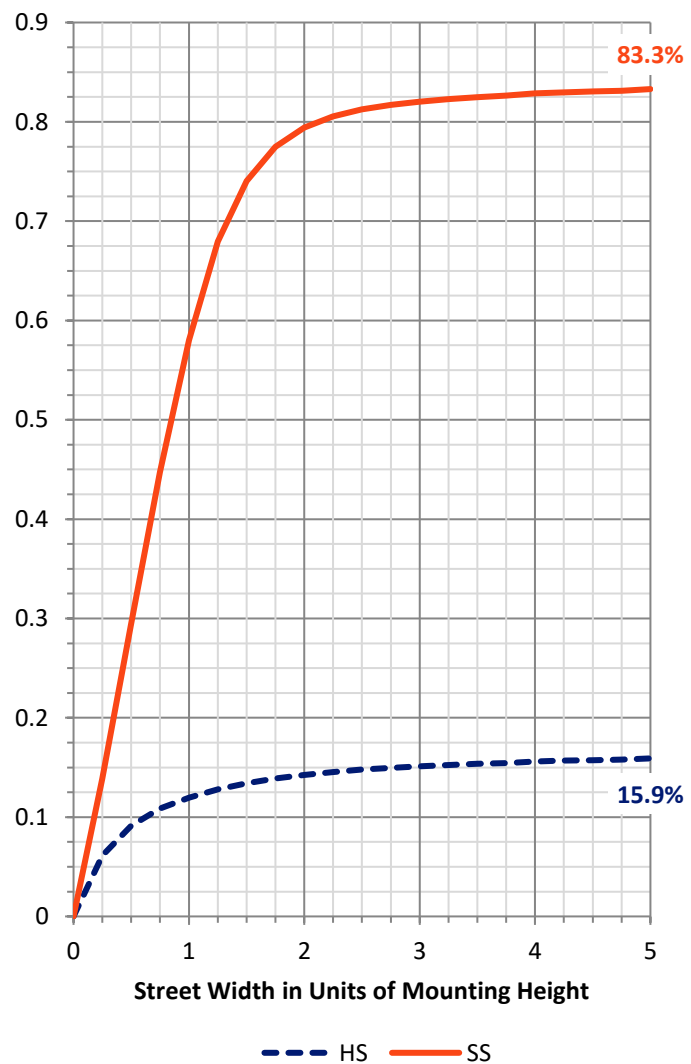
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1241.5   | 0.0    | 1241.5 |
|                    | % Fixture | 16.3     | 0.0    | 16.3   |
| <b>Street Side</b> | Lumens    | 6363.4   | 0.0    | 6363.4 |
|                    | % Fixture | 83.7     | 0.0    | 83.7   |
| <b>Total</b>       | Lumens    | 7604.9   | 0.0    | 7604.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.8   | 1.3       |
| 10°-20°   | 335.8  | 4.4       |
| 20°-30°   | 600.9  | 7.9       |
| 30°-40°   | 972.0  | 12.8      |
| 40°-50°   | 1406.1 | 18.5      |
| 50°-60°   | 1609.4 | 21.2      |
| 60°-70°   | 1480.5 | 19.5      |
| 70°-80°   | 915.5  | 12.0      |
| 80°-90°   | 185.9  | 2.4       |
| 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°    | 7604.9 | 100.0     |
| 0°-180°   | 7604.9 | 100.0     |



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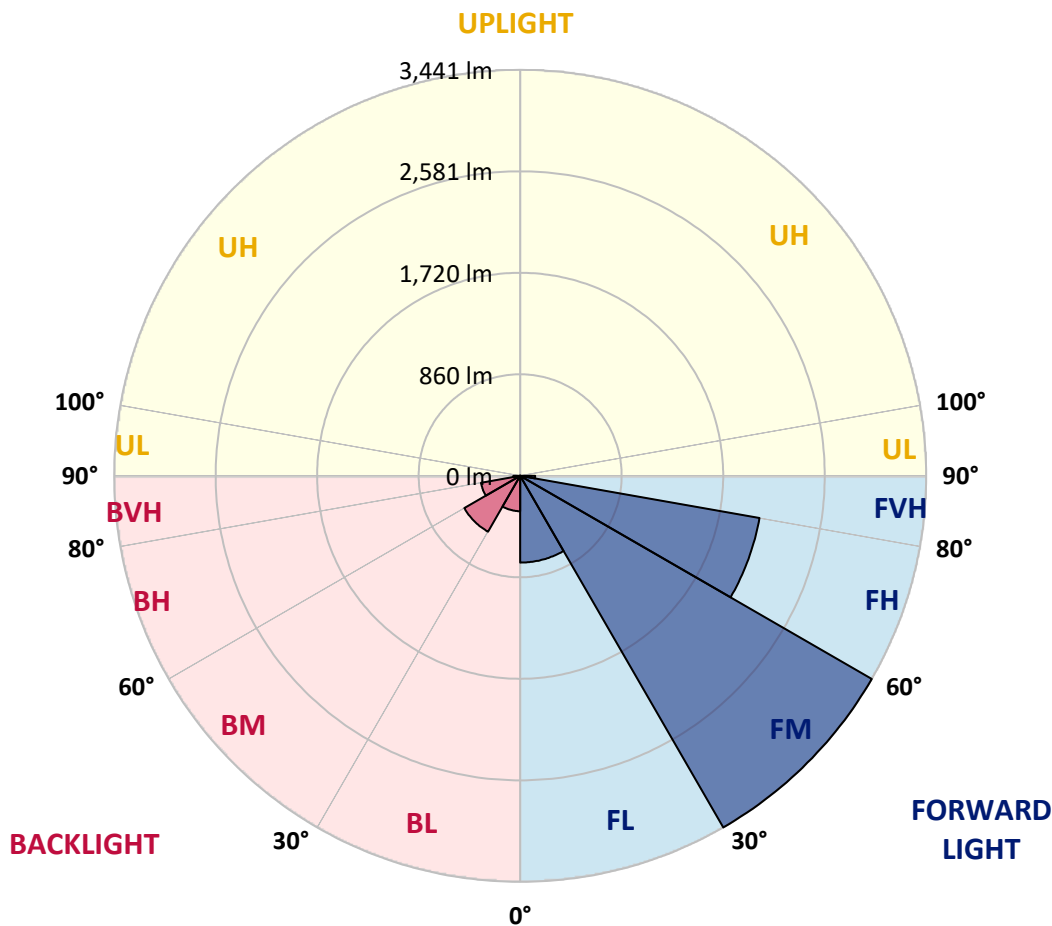
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 735.7  | 9.7       |                         |      |         |
| FM (30°-60°)   | 3440.9 | 45.2      |                         |      |         |
| FH (60°-80°)   | 2059.2 | 27.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 127.6  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 299.9  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 546.6  | 7.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 336.8  | 4.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 58.3   | 0.8       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 951.0  | 951.0  | 951.0  | 951.0  | 951.0  | 951.0  | 951.0  | 951.0  | 951.0  | 951.0  | 951.0  |
| 2.5°  | 1212.0 | 1203.0 | 1202.0 | 1188.0 | 1175.0 | 1140.0 | 1115.0 | 1071.0 | 1027.0 | 1026.0 | 982.0  |
| 5°    | 1401.1 | 1392.1 | 1387.1 | 1370.1 | 1348.1 | 1302.1 | 1257.0 | 1189.0 | 1114.0 | 1109.0 | 1026.0 |
| 7.5°  | 1529.1 | 1521.1 | 1511.1 | 1504.1 | 1483.1 | 1442.1 | 1387.1 | 1306.1 | 1203.0 | 1193.0 | 1077.0 |
| 10°   | 1615.1 | 1610.1 | 1608.1 | 1603.1 | 1590.1 | 1557.1 | 1504.1 | 1418.1 | 1292.1 | 1281.1 | 1131.0 |
| 12.5° | 1652.1 | 1650.1 | 1659.1 | 1673.1 | 1678.1 | 1665.1 | 1614.1 | 1533.1 | 1390.1 | 1378.1 | 1196.0 |
| 15°   | 1609.1 | 1611.1 | 1634.1 | 1682.1 | 1733.1 | 1761.1 | 1731.1 | 1652.1 | 1501.1 | 1484.1 | 1272.1 |
| 17.5° | 1589.1 | 1592.1 | 1608.1 | 1654.1 | 1726.1 | 1813.1 | 1827.1 | 1765.1 | 1608.1 | 1584.1 | 1352.1 |
| 20°   | 1624.1 | 1628.1 | 1640.1 | 1676.1 | 1726.1 | 1819.1 | 1892.1 | 1873.1 | 1713.1 | 1688.1 | 1429.1 |
| 22.5° | 1713.1 | 1718.1 | 1717.1 | 1740.1 | 1774.1 | 1838.1 | 1928.1 | 1975.1 | 1823.1 | 1795.1 | 1509.1 |
| 25°   | 1903.1 | 1899.1 | 1865.1 | 1854.1 | 1863.1 | 1904.1 | 1976.1 | 2073.1 | 1938.1 | 1910.1 | 1593.1 |
| 27.5° | 2161.1 | 2156.1 | 2094.1 | 2038.1 | 1988.1 | 2006.1 | 2044.1 | 2152.1 | 2055.1 | 2023.1 | 1673.1 |
| 30°   | 2437.1 | 2431.1 | 2359.1 | 2268.1 | 2157.1 | 2131.1 | 2126.1 | 2221.1 | 2173.1 | 2139.1 | 1758.1 |
| 32.5° | 2706.1 | 2701.1 | 2624.1 | 2518.1 | 2365.1 | 2287.1 | 2239.1 | 2298.1 | 2307.1 | 2274.1 | 1851.1 |
| 35°   | 2951.1 | 2951.1 | 2885.1 | 2759.1 | 2586.1 | 2468.1 | 2389.1 | 2393.1 | 2461.1 | 2423.1 | 1957.1 |
| 37.5° | 3169.1 | 3168.1 | 3096.1 | 2972.1 | 2806.1 | 2671.1 | 2573.1 | 2508.1 | 2608.1 | 2575.1 | 2068.1 |
| 40°   | 3342.1 | 3335.1 | 3282.1 | 3174.1 | 3007.1 | 2873.1 | 2774.1 | 2643.1 | 2772.1 | 2742.1 | 2186.1 |
| 42.5° | 3468.1 | 3464.1 | 3428.1 | 3334.1 | 3175.1 | 3049.1 | 2981.1 | 2813.1 | 2958.1 | 2928.1 | 2324.1 |
| 45°   | 3517.1 | 3525.1 | 3525.1 | 3436.1 | 3310.1 | 3195.1 | 3165.1 | 3000.1 | 3159.1 | 3129.1 | 2472.1 |
| 47.5° | 3438.1 | 3459.1 | 3502.1 | 3508.1 | 3397.1 | 3319.1 | 3329.1 | 3188.1 | 3366.1 | 3350.1 | 2634.1 |
| 50°   | 3191.1 | 3230.1 | 3324.1 | 3494.1 | 3432.1 | 3414.1 | 3469.1 | 3380.1 | 3588.1 | 3583.1 | 2831.1 |
| 52.5° | 2554.1 | 2649.1 | 2942.1 | 3247.1 | 3408.1 | 3458.1 | 3608.1 | 3596.1 | 3874.2 | 3882.2 | 3088.1 |
| 55°   | 1959.1 | 1995.1 | 2334.1 | 2853.1 | 3261.1 | 3444.1 | 3701.1 | 3807.2 | 4184.2 | 4194.2 | 3324.1 |
| 57.5° | 1584.1 | 1608.1 | 1793.1 | 2334.1 | 2926.1 | 3368.1 | 3774.1 | 3930.2 | 4422.2 | 4448.2 | 3534.1 |
| 60°   | 1255.0 | 1290.1 | 1414.1 | 1786.1 | 2457.1 | 3185.1 | 3825.2 | 4067.2 | 4678.2 | 4717.2 | 3785.2 |
| 62.5° | 933.0  | 950.0  | 1067.0 | 1323.1 | 1945.1 | 2856.1 | 3798.2 | 4216.2 | 4992.2 | 5039.2 | 4087.2 |
| 65°   | 664.0  | 679.0  | 762.0  | 941.0  | 1438.1 | 2411.1 | 3641.1 | 4327.2 | 5386.2 | 5434.2 | 4391.2 |
| 67.5° | 497.0  | 503.0  | 550.0  | 658.0  | 969.0  | 1873.1 | 3323.1 | 4308.2 | 5674.2 | 5717.2 | 4513.2 |
| 70°   | 393.0  | 395.0  | 418.0  | 476.0  | 630.0  | 1304.1 | 2766.1 | 4029.2 | 5695.2 | 5733.2 | 4359.2 |
| 72.5° | 326.0  | 325.0  | 338.0  | 366.0  | 439.0  | 825.0  | 2049.1 | 3511.1 | 5425.2 | 5451.2 | 3929.2 |
| 75°   | 269.0  | 271.0  | 280.0  | 296.0  | 335.0  | 544.0  | 1328.1 | 2801.1 | 4786.2 | 4758.2 | 3297.1 |
| 77.5° | 226.0  | 225.0  | 229.0  | 243.0  | 271.0  | 391.0  | 778.0  | 2024.1 | 3547.1 | 3533.1 | 2164.1 |
| 80°   | 182.0  | 184.0  | 190.0  | 202.0  | 228.0  | 298.0  | 460.0  | 1263.1 | 1903.1 | 1852.1 | 1034.0 |
| 82.5° | 122.0  | 141.0  | 153.0  | 167.0  | 197.0  | 220.0  | 292.0  | 642.0  | 851.0  | 838.0  | 469.0  |
| 85°   | 58.0   | 77.0   | 114.0  | 130.0  | 160.0  | 138.0  | 198.0  | 306.0  | 426.0  | 421.0  | 169.0  |
| 87.5° | 12.0   | 12.0   | 61.0   | 73.0   | 99.0   | 59.0   | 110.0  | 133.0  | 206.0  | 193.0  | 69.0   |
| 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°    | 951.0  | 951.0  | 951.0 | 951.0 | 951.0 | 951.0 | 951.0 | 951.0 | 951.0 | 951.0 | 951.0 |
| 2.5°  | 956.0  | 929.0  | 875.0 | 832.0 | 788.0 | 763.0 | 732.0 | 717.0 | 714.0 | 706.0 | 712.0 |
| 5°    | 973.0  | 920.0  | 818.0 | 751.0 | 706.0 | 684.0 | 673.0 | 669.0 | 668.0 | 666.0 | 666.0 |
| 7.5°  | 996.0  | 915.0  | 782.0 | 714.0 | 685.0 | 678.0 | 681.0 | 687.0 | 688.0 | 690.0 | 689.0 |
| 10°   | 1024.0 | 916.0  | 762.0 | 705.0 | 691.0 | 692.0 | 702.0 | 710.0 | 714.0 | 717.0 | 716.0 |
| 12.5° | 1063.0 | 928.0  | 759.0 | 711.0 | 705.0 | 709.0 | 719.0 | 727.0 | 731.0 | 732.0 | 732.0 |
| 15°   | 1114.0 | 953.0  | 766.0 | 724.0 | 719.0 | 722.0 | 728.0 | 731.0 | 732.0 | 731.0 | 731.0 |
| 17.5° | 1170.0 | 983.0  | 776.0 | 732.0 | 724.0 | 721.0 | 719.0 | 716.0 | 710.0 | 706.0 | 706.0 |
| 20°   | 1224.0 | 1010.0 | 781.0 | 731.0 | 717.0 | 705.0 | 693.0 | 678.0 | 668.0 | 660.0 | 660.0 |
| 22.5° | 1278.1 | 1035.0 | 781.0 | 720.0 | 698.0 | 675.0 | 650.0 | 626.0 | 611.0 | 601.0 | 601.0 |
| 25°   | 1335.1 | 1059.0 | 775.0 | 701.0 | 668.0 | 635.0 | 601.0 | 571.0 | 556.0 | 546.0 | 544.0 |
| 27.5° | 1383.1 | 1073.0 | 759.0 | 674.0 | 631.0 | 589.0 | 550.0 | 519.0 | 508.0 | 499.0 | 499.0 |
| 30°   | 1434.1 | 1082.0 | 729.0 | 639.0 | 589.0 | 541.0 | 501.0 | 476.0 | 464.0 | 451.0 | 450.0 |
| 32.5° | 1491.1 | 1088.0 | 695.0 | 602.0 | 546.0 | 495.0 | 461.0 | 441.0 | 415.0 | 401.0 | 399.0 |
| 35°   | 1557.1 | 1096.0 | 659.0 | 560.0 | 503.0 | 457.0 | 437.0 | 404.0 | 379.0 | 367.0 | 366.0 |
| 37.5° | 1627.1 | 1102.0 | 620.0 | 523.0 | 464.0 | 432.0 | 412.0 | 373.0 | 351.0 | 333.0 | 331.0 |
| 40°   | 1701.1 | 1102.0 | 580.0 | 487.0 | 433.0 | 421.0 | 383.0 | 348.0 | 311.0 | 302.0 | 300.0 |
| 42.5° | 1783.1 | 1100.0 | 540.0 | 452.0 | 404.0 | 396.0 | 366.0 | 329.0 | 310.0 | 302.0 | 300.0 |
| 45°   | 1870.1 | 1093.0 | 502.0 | 412.0 | 374.0 | 358.0 | 335.0 | 325.0 | 317.0 | 317.0 | 317.0 |
| 47.5° | 1969.1 | 1087.0 | 459.0 | 376.0 | 352.0 | 334.0 | 317.0 | 311.0 | 310.0 | 313.0 | 316.0 |
| 50°   | 2096.1 | 1085.0 | 423.0 | 350.0 | 335.0 | 314.0 | 312.0 | 307.0 | 308.0 | 308.0 | 308.0 |
| 52.5° | 2250.1 | 1067.0 | 389.0 | 331.0 | 318.0 | 293.0 | 299.0 | 304.0 | 306.0 | 305.0 | 304.0 |
| 55°   | 2363.1 | 1035.0 | 360.0 | 318.0 | 306.0 | 285.0 | 293.0 | 301.0 | 303.0 | 300.0 | 300.0 |
| 57.5° | 2465.1 | 990.0  | 337.0 | 308.0 | 298.0 | 280.0 | 289.0 | 297.0 | 295.0 | 294.0 | 293.0 |
| 60°   | 2582.1 | 947.0  | 319.0 | 303.0 | 290.0 | 278.0 | 286.0 | 291.0 | 288.0 | 286.0 | 285.0 |
| 62.5° | 2709.1 | 905.0  | 306.0 | 303.0 | 284.0 | 277.0 | 283.0 | 285.0 | 279.0 | 277.0 | 277.0 |
| 65°   | 2768.1 | 839.0  | 292.0 | 303.0 | 281.0 | 275.0 | 277.0 | 275.0 | 269.0 | 269.0 | 268.0 |
| 67.5° | 2671.1 | 730.0  | 274.0 | 299.0 | 285.0 | 272.0 | 268.0 | 265.0 | 258.0 | 258.0 | 256.0 |
| 70°   | 2403.1 | 600.0  | 248.0 | 286.0 | 286.0 | 271.0 | 256.0 | 249.0 | 241.0 | 244.0 | 240.0 |
| 72.5° | 2053.1 | 476.0  | 216.0 | 264.0 | 280.0 | 270.0 | 243.0 | 232.0 | 225.0 | 228.0 | 222.0 |
| 75°   | 1663.1 | 369.0  | 178.0 | 229.0 | 265.0 | 265.0 | 230.0 | 215.0 | 207.0 | 207.0 | 200.0 |
| 77.5° | 1060.0 | 273.0  | 145.0 | 190.0 | 238.0 | 258.0 | 219.0 | 196.0 | 184.0 | 181.0 | 176.0 |
| 80°   | 525.0  | 192.0  | 119.0 | 151.0 | 203.0 | 242.0 | 211.0 | 174.0 | 157.0 | 151.0 | 142.0 |
| 82.5° | 279.0  | 133.0  | 95.0  | 118.0 | 162.0 | 218.0 | 201.0 | 150.0 | 129.0 | 120.0 | 110.0 |
| 85°   | 125.0  | 82.0   | 76.0  | 90.0  | 123.0 | 179.0 | 181.0 | 123.0 | 99.0  | 118.0 | 87.0  |
| 87.5° | 46.0   | 37.0   | 37.0  | 46.0  | 71.0  | 75.0  | 128.0 | 79.0  | 63.0  | 43.0  | 34.0  |
| 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)