

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: P287006

Luminaire Tested: **PRV-C15-D-UNV-T2-BZ-HSS**

Issue Date: 3/4/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P287006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 3/4/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-C15-D-UNV-T2-BZ-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6551 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

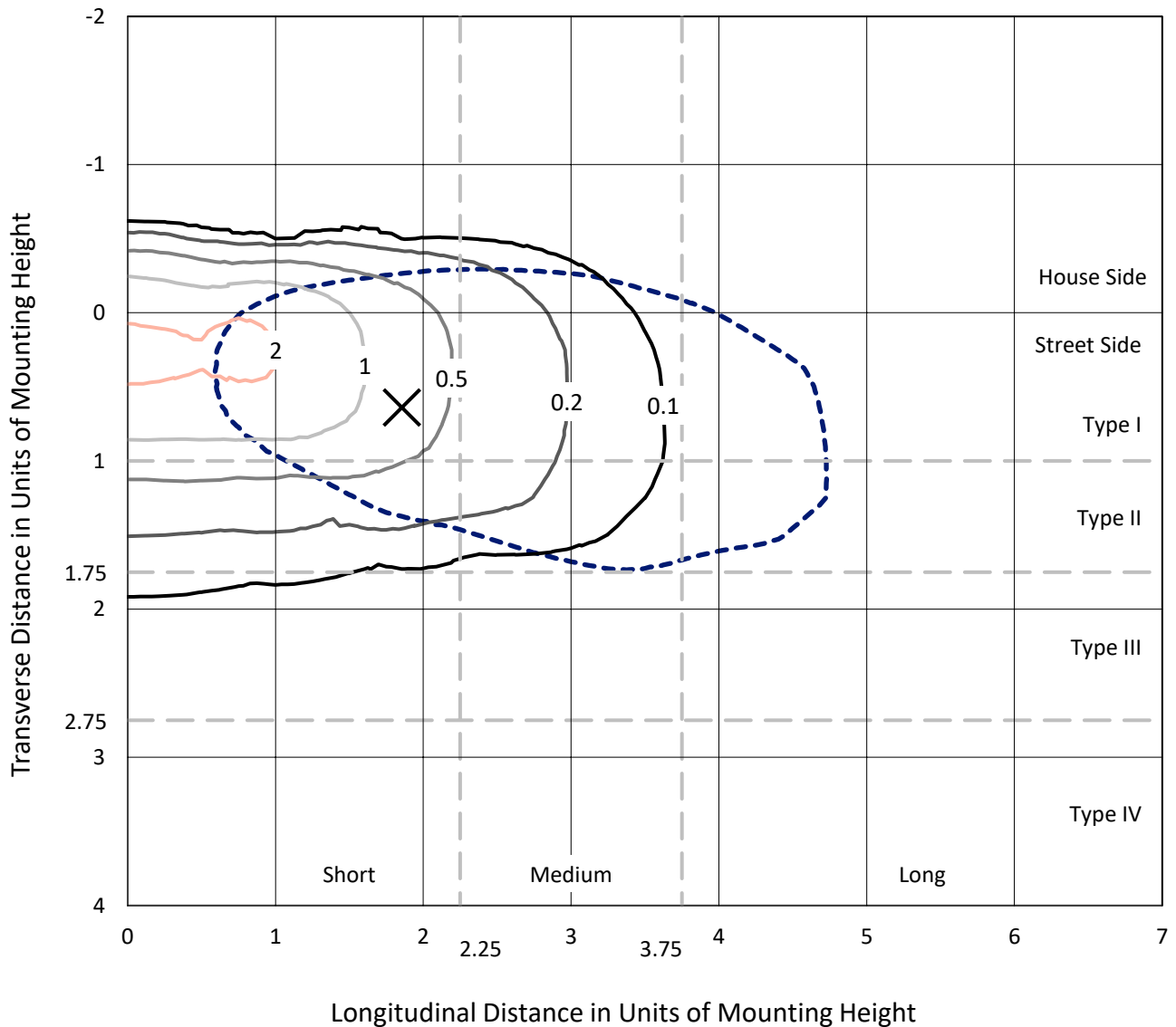
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

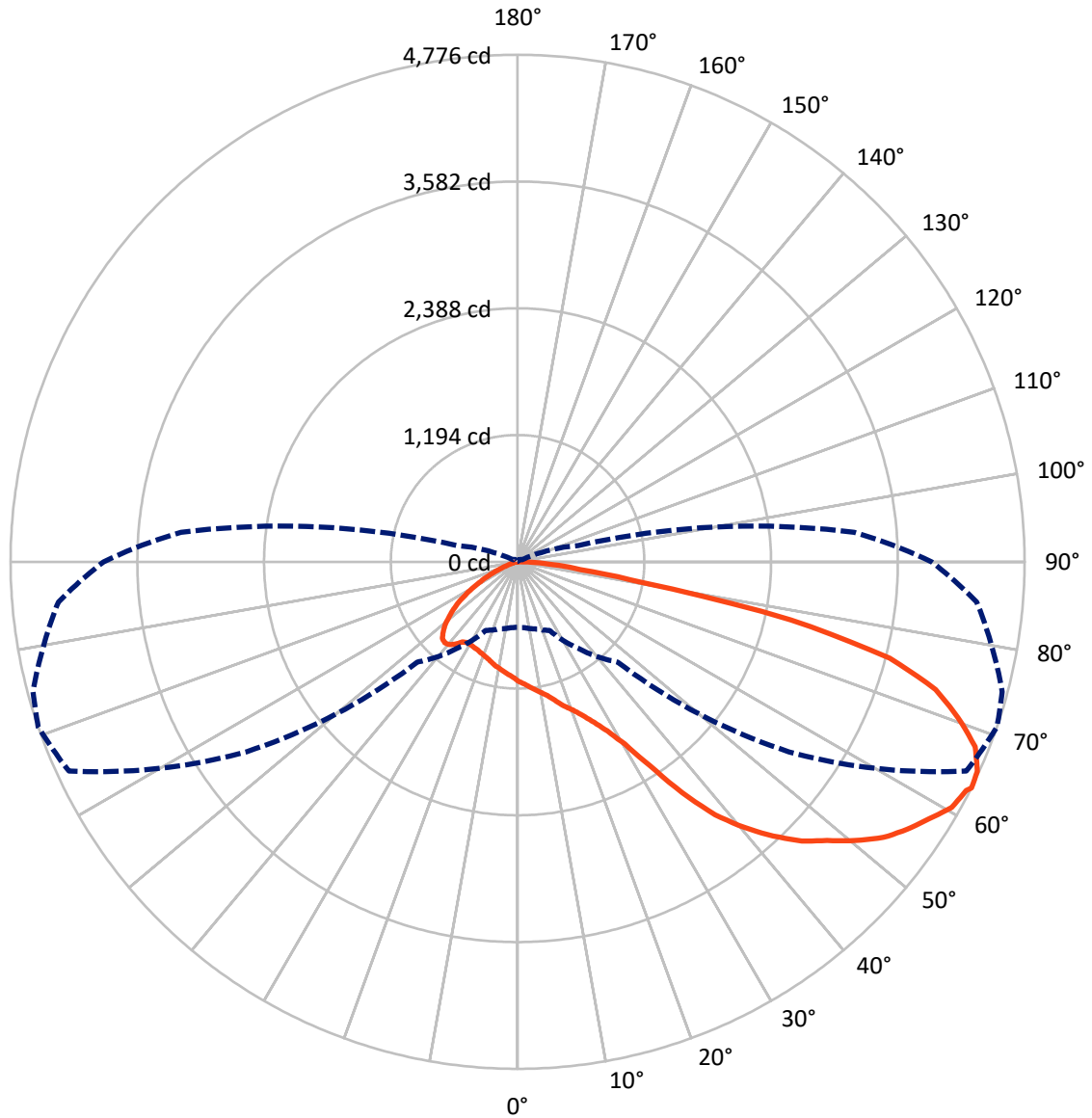
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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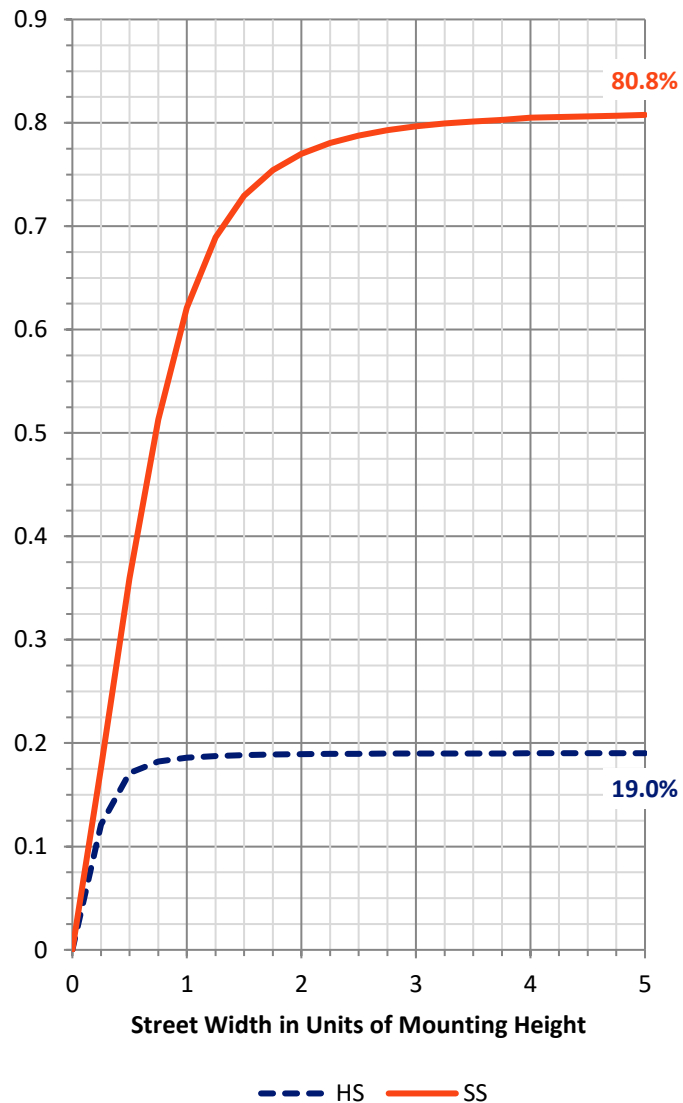
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1260.8   | 0.0    | 1260.8 |
|                    | % Fixture | 19.2     | 0.0    | 19.2   |
| <b>Street Side</b> | Lumens    | 5290.2   | 0.0    | 5290.2 |
|                    | % Fixture | 80.8     | 0.0    | 80.8   |
| <b>Total</b>       | Lumens    | 6551.0   | 0.0    | 6551.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.2  | 1.6       |
| 10°-20°   | 322.1  | 4.9       |
| 20°-30°   | 541.6  | 8.3       |
| 30°-40°   | 827.7  | 12.6      |
| 40°-50°   | 1153.1 | 17.6      |
| 50°-60°   | 1335.5 | 20.4      |
| 60°-70°   | 1322.6 | 20.2      |
| 70°-80°   | 819.9  | 12.5      |
| 80°-90°   | 121.4  | 1.9       |
| 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°    | 6551.0 | 100.0     |
| 0°-180°   | 6551.0 | 100.0     |

**Coefficient of Utilization**

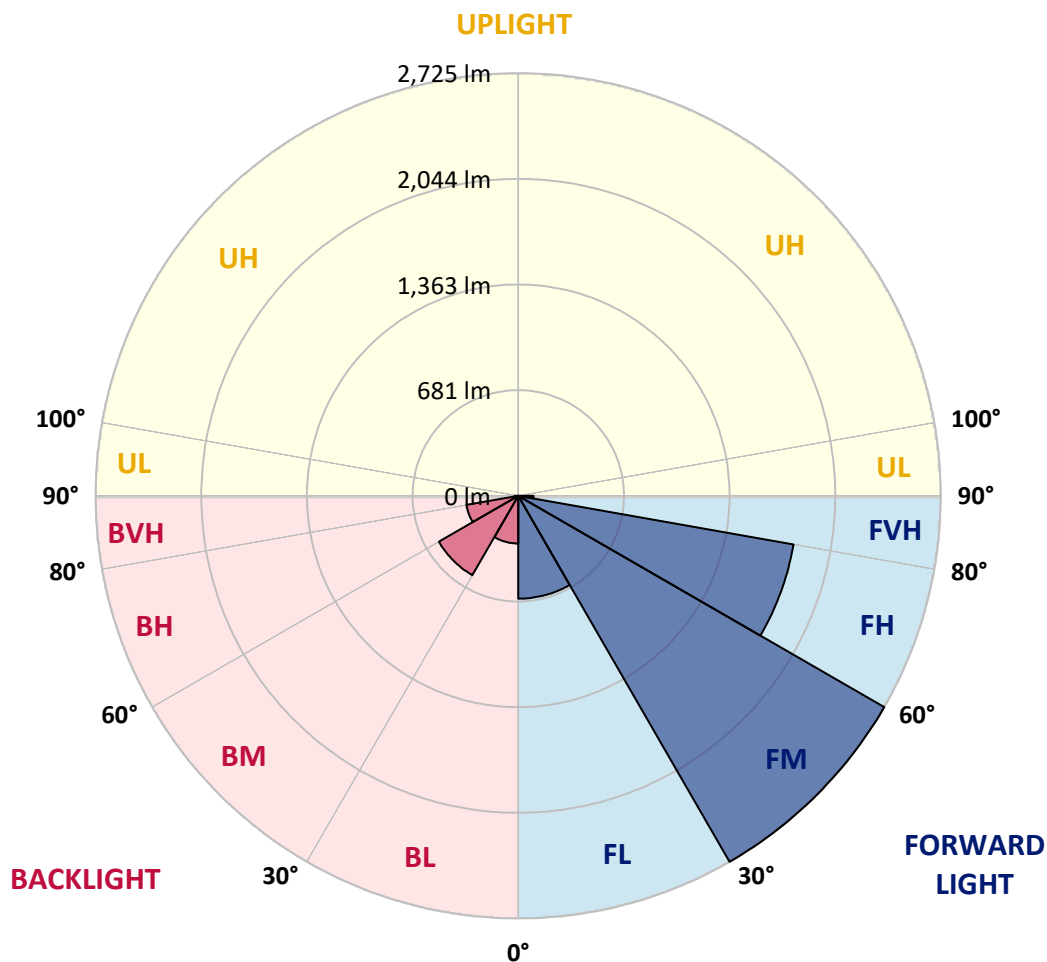


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 663.4  | 10.1      |                         |      |         |
| FM (30°-60°)   | 2725.3 | 41.6      |                         |      |         |
| FH (60°-80°)   | 1803.2 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 98.3   | 1.5       |                         |      | G1/100  |
| BL (0°-30°)    | 307.5  | 4.7       | B1/500                  |      |         |
| BM (30°-60°)   | 591.0  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 339.3  | 5.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 23.1   | 0.4       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 71°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 |
| 2.5°  | 1240.0 | 1228.1 | 1227.8 | 1212.9 | 1201.7 | 1195.5 | 1178.4 | 1163.5 | 1150.6 | 1149.2 | 1126.3 |
| 5°    | 1307.4 | 1304.6 | 1300.8 | 1277.5 | 1267.1 | 1253.2 | 1234.4 | 1205.6 | 1182.3 | 1176.4 | 1139.9 |
| 7.5°  | 1383.5 | 1381.4 | 1373.8 | 1352.9 | 1326.5 | 1310.2 | 1273.7 | 1244.8 | 1220.2 | 1207.6 | 1158.3 |
| 10°   | 1427.3 | 1427.0 | 1426.3 | 1408.9 | 1388.4 | 1364.4 | 1325.5 | 1283.1 | 1254.6 | 1241.4 | 1170.1 |
| 12.5° | 1496.9 | 1487.5 | 1484.3 | 1463.1 | 1437.1 | 1419.7 | 1383.9 | 1338.3 | 1299.8 | 1276.5 | 1196.9 |
| 15°   | 1552.8 | 1553.2 | 1547.3 | 1528.1 | 1508.7 | 1480.9 | 1450.6 | 1405.1 | 1362.7 | 1344.9 | 1242.7 |
| 17.5° | 1622.3 | 1616.1 | 1609.1 | 1589.0 | 1568.5 | 1539.3 | 1520.5 | 1465.2 | 1430.5 | 1391.5 | 1283.1 |
| 20°   | 1666.5 | 1655.7 | 1648.1 | 1635.2 | 1626.9 | 1603.6 | 1586.5 | 1537.5 | 1489.9 | 1456.5 | 1328.3 |
| 22.5° | 1697.1 | 1708.2 | 1705.1 | 1684.2 | 1687.4 | 1680.4 | 1658.9 | 1625.8 | 1572.3 | 1517.4 | 1380.4 |
| 25°   | 1715.9 | 1713.4 | 1731.5 | 1745.1 | 1768.7 | 1767.3 | 1751.3 | 1722.5 | 1674.8 | 1615.7 | 1458.3 |
| 27.5° | 1721.4 | 1721.4 | 1750.6 | 1788.9 | 1844.5 | 1856.6 | 1858.7 | 1857.0 | 1804.2 | 1750.6 | 1560.5 |
| 30°   | 1729.8 | 1739.2 | 1767.3 | 1814.9 | 1895.6 | 1943.9 | 1966.8 | 2005.4 | 1992.2 | 1945.6 | 1727.3 |
| 32.5° | 1696.7 | 1697.8 | 1738.8 | 1830.6 | 1948.1 | 2048.5 | 2093.7 | 2230.3 | 2288.4 | 2309.9 | 2065.6 |
| 35°   | 1590.4 | 1601.1 | 1675.9 | 1802.4 | 1972.4 | 2138.6 | 2261.3 | 2543.5 | 2671.5 | 2674.3 | 2389.2 |
| 37.5° | 1516.7 | 1527.1 | 1607.4 | 1761.7 | 1991.5 | 2229.3 | 2452.8 | 2895.3 | 3024.7 | 2992.7 | 2668.3 |
| 40°   | 1436.0 | 1453.4 | 1538.6 | 1706.8 | 1988.7 | 2318.3 | 2657.6 | 3206.8 | 3293.0 | 3251.0 | 2896.7 |
| 42.5° | 1357.5 | 1360.2 | 1444.0 | 1630.7 | 1974.5 | 2390.6 | 2857.8 | 3436.9 | 3532.2 | 3478.0 | 3120.6 |
| 45°   | 1262.2 | 1274.7 | 1357.5 | 1529.5 | 1927.2 | 2435.1 | 3034.0 | 3689.3 | 3752.6 | 3692.1 | 3307.6 |
| 47.5° | 1152.4 | 1168.4 | 1274.7 | 1436.0 | 1822.2 | 2441.7 | 3192.6 | 3916.3 | 3922.6 | 3874.6 | 3504.4 |
| 50°   | 889.9  | 900.0  | 1118.6 | 1343.9 | 1696.7 | 2415.3 | 3343.8 | 4086.3 | 4127.0 | 4064.4 | 3672.3 |
| 52.5° | 805.8  | 814.1  | 875.3  | 1224.0 | 1528.8 | 2327.0 | 3449.4 | 4281.7 | 4314.7 | 4259.8 | 3836.4 |
| 55°   | 772.4  | 776.2  | 797.8  | 992.1  | 1388.1 | 2170.2 | 3516.2 | 4427.7 | 4451.3 | 4383.2 | 3972.3 |
| 57.5° | 714.0  | 717.5  | 763.4  | 846.1  | 1269.9 | 1910.9 | 3507.8 | 4571.6 | 4569.8 | 4493.7 | 4113.1 |
| 60°   | 669.9  | 677.2  | 716.1  | 778.0  | 1127.3 | 1598.7 | 3393.5 | 4681.8 | 4698.8 | 4628.9 | 4215.6 |
| 62.5° | 628.2  | 630.9  | 664.0  | 723.7  | 1011.6 | 1371.0 | 3178.3 | 4671.7 | 4743.6 | 4691.8 | 4344.6 |
| 63°   | 616.3  | 621.5  | 654.2  | 712.3  | 994.9  | 1335.2 | 3120.3 | 4663.7 | 4776.3 | 4725.6 | 4341.4 |
| 65°   | 579.8  | 580.5  | 612.5  | 667.4  | 915.3  | 1223.6 | 2927.3 | 4558.0 | 4759.3 | 4728.7 | 4395.3 |
| 67.5° | 510.3  | 515.5  | 544.0  | 597.6  | 782.5  | 1081.8 | 2428.8 | 4487.8 | 4648.7 | 4664.7 | 4307.4 |
| 70°   | 433.1  | 436.3  | 471.4  | 523.9  | 657.7  | 917.7  | 1816.7 | 4243.1 | 4404.0 | 4423.8 | 4076.2 |
| 72.5° | 339.6  | 341.4  | 379.6  | 440.8  | 538.1  | 757.8  | 1253.5 | 3816.5 | 4118.6 | 4118.6 | 3681.0 |
| 75°   | 106.7  | 126.2  | 265.9  | 355.3  | 434.9  | 586.4  | 823.5  | 2961.0 | 3620.1 | 3710.2 | 3151.5 |
| 77.5° | 34.8   | 37.5   | 84.1   | 187.4  | 273.9  | 450.2  | 546.8  | 1574.0 | 2629.8 | 2877.3 | 2485.8 |
| 80°   | 25.0   | 29.2   | 52.1   | 140.4  | 172.4  | 191.5  | 338.9  | 857.9  | 1195.1 | 1566.4 | 1660.2 |
| 82.5° | 12.9   | 16.7   | 36.8   | 89.3   | 98.0   | 96.6   | 150.5  | 405.7  | 596.9  | 721.0  | 861.4  |
| 85°   | 5.9    | 7.3    | 16.0   | 31.3   | 27.1   | 25.4   | 53.2   | 212.4  | 336.5  | 397.7  | 429.7  |
| 87.5° | 1.4    | 2.1    | 5.9    | 11.1   | 7.0    | 5.6    | 6.3    | 67.4   | 122.7  | 153.0  | 158.2  |
| 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°    | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 |
| 2.5°  | 1116.6 | 1122.1 | 1095.7 | 1082.8 | 1060.9 | 1054.0 | 1043.2 | 1030.4 | 1026.2 | 1036.6 | 1029.7 |
| 5°    | 1126.3 | 1118.6 | 1080.4 | 1045.6 | 1016.4 | 993.5  | 976.1  | 954.2  | 941.0  | 944.1  | 946.2  |
| 7.5°  | 1130.1 | 1113.1 | 1058.9 | 1016.1 | 966.7  | 937.2  | 905.6  | 874.6  | 861.4  | 863.5  | 864.9  |
| 10°   | 1133.9 | 1108.2 | 1044.3 | 981.3  | 922.6  | 877.0  | 840.9  | 799.9  | 780.1  | 780.8  | 787.4  |
| 12.5° | 1156.5 | 1106.5 | 1032.1 | 956.0  | 879.8  | 823.2  | 779.0  | 733.5  | 705.3  | 707.4  | 712.6  |
| 15°   | 1188.5 | 1121.4 | 1016.4 | 918.4  | 838.5  | 774.2  | 719.2  | 668.8  | 647.3  | 650.4  | 655.3  |
| 17.5° | 1216.0 | 1138.1 | 1004.3 | 878.8  | 788.4  | 719.2  | 669.5  | 626.4  | 587.1  | 593.0  | 589.6  |
| 20°   | 1243.8 | 1161.8 | 1000.5 | 845.4  | 745.3  | 665.7  | 609.4  | 574.6  | 526.0  | 512.7  | 508.6  |
| 22.5° | 1288.3 | 1188.2 | 997.0  | 814.8  | 694.2  | 618.8  | 548.5  | 497.4  | 427.6  | 403.6  | 394.2  |
| 25°   | 1346.7 | 1226.1 | 991.8  | 787.4  | 651.8  | 562.8  | 467.6  | 375.8  | 324.0  | 293.4  | 279.1  |
| 27.5° | 1425.6 | 1280.3 | 999.4  | 763.0  | 609.0  | 496.4  | 354.9  | 272.9  | 226.6  | 200.2  | 185.3  |
| 30°   | 1557.7 | 1351.2 | 1001.2 | 741.1  | 556.9  | 395.9  | 252.7  | 189.8  | 150.5  | 132.4  | 123.4  |
| 32.5° | 1848.0 | 1566.4 | 1016.8 | 716.1  | 500.9  | 291.3  | 175.9  | 127.2  | 95.9   | 84.5   | 89.7   |
| 35°   | 2153.2 | 1830.6 | 1073.1 | 680.6  | 413.3  | 197.1  | 116.1  | 82.4   | 61.5   | 63.3   | 65.0   |
| 37.5° | 2384.7 | 2035.7 | 1191.3 | 637.2  | 310.8  | 134.9  | 69.9   | 56.3   | 54.2   | 59.1   | 68.1   |
| 40°   | 2612.4 | 2239.7 | 1296.6 | 584.7  | 210.7  | 81.0   | 47.3   | 51.8   | 48.7   | 50.8   | 51.4   |
| 42.5° | 2811.9 | 2402.4 | 1372.1 | 507.2  | 130.4  | 47.6   | 41.4   | 48.0   | 44.5   | 43.5   | 38.2   |
| 45°   | 3004.8 | 2543.2 | 1418.6 | 400.1  | 74.7   | 37.9   | 37.9   | 45.9   | 43.1   | 40.7   | 34.8   |
| 47.5° | 3175.5 | 2700.7 | 1407.2 | 276.4  | 45.5   | 34.1   | 35.5   | 41.4   | 40.3   | 37.2   | 34.1   |
| 50°   | 3332.6 | 2814.7 | 1377.3 | 156.8  | 40.0   | 32.3   | 34.4   | 34.4   | 36.2   | 28.2   | 25.7   |
| 52.5° | 3469.6 | 2915.8 | 1281.0 | 83.8   | 37.2   | 30.9   | 30.9   | 27.5   | 29.2   | 21.6   | 20.5   |
| 55°   | 3610.4 | 3021.9 | 1145.4 | 65.7   | 35.5   | 30.9   | 27.5   | 24.0   | 21.9   | 15.6   | 16.7   |
| 57.5° | 3726.2 | 3100.1 | 969.9  | 59.1   | 36.5   | 29.5   | 25.0   | 20.9   | 17.4   | 12.2   | 11.8   |
| 60°   | 3833.2 | 3164.7 | 799.5  | 52.5   | 39.3   | 29.9   | 20.9   | 17.4   | 12.2   | 9.7    | 8.7    |
| 62.5° | 3897.9 | 3179.3 | 620.2  | 47.6   | 39.3   | 27.5   | 18.8   | 14.6   | 9.4    | 6.6    | 6.3    |
| 63°   | 3900.0 | 3183.9 | 592.0  | 47.3   | 40.0   | 27.5   | 18.8   | 14.3   | 8.7    | 6.3    | 5.9    |
| 65°   | 3930.6 | 3089.7 | 467.2  | 46.2   | 40.7   | 26.1   | 17.7   | 11.5   | 7.3    | 4.9    | 4.5    |
| 67.5° | 3813.8 | 2908.2 | 307.3  | 45.5   | 40.7   | 25.4   | 15.6   | 9.7    | 6.3    | 3.8    | 3.1    |
| 70°   | 3505.1 | 2597.8 | 188.1  | 43.8   | 41.4   | 25.0   | 19.5   | 8.3    | 5.6    | 2.8    | 2.4    |
| 72.5° | 3079.6 | 2294.7 | 108.1  | 38.9   | 40.7   | 20.5   | 11.1   | 7.3    | 4.9    | 2.1    | 1.7    |
| 75°   | 2606.8 | 1844.5 | 68.1   | 30.2   | 31.6   | 17.0   | 9.4    | 6.6    | 4.2    | 1.0    | 1.0    |
| 77.5° | 1980.7 | 1327.2 | 58.4   | 23.3   | 18.8   | 14.9   | 8.0    | 5.2    | 2.8    | 0.3    | 0.3    |
| 80°   | 1398.8 | 937.9  | 42.1   | 14.6   | 10.4   | 9.4    | 5.9    | 3.5    | 1.0    | 0.0    | 0.0    |
| 82.5° | 787.4  | 512.4  | 22.9   | 5.2    | 3.1    | 3.5    | 2.8    | 1.4    | 0.0    | 0.0    | 0.0    |
| 85°   | 371.3  | 200.2  | 11.5   | 3.5    | 1.7    | 1.4    | 0.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 138.0  | 48.3   | 2.8    | 1.4    | 1.0    | 0.3    | 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)