

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: P146597

Luminaire Tested: **LDRL-T3-F02-E-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146597  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33695)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRL-T3-F02-E-7060  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (14) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5058.4 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

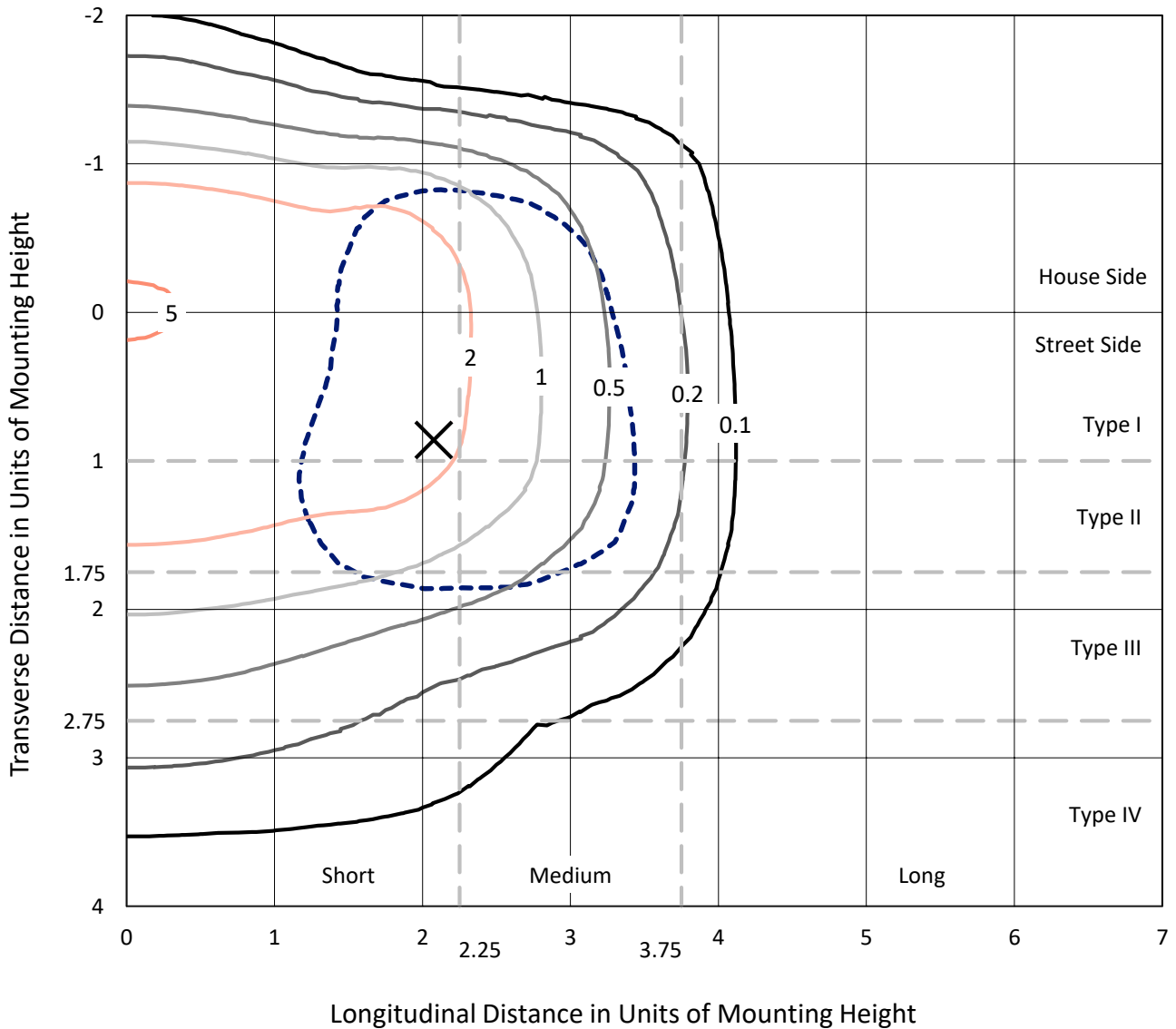
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

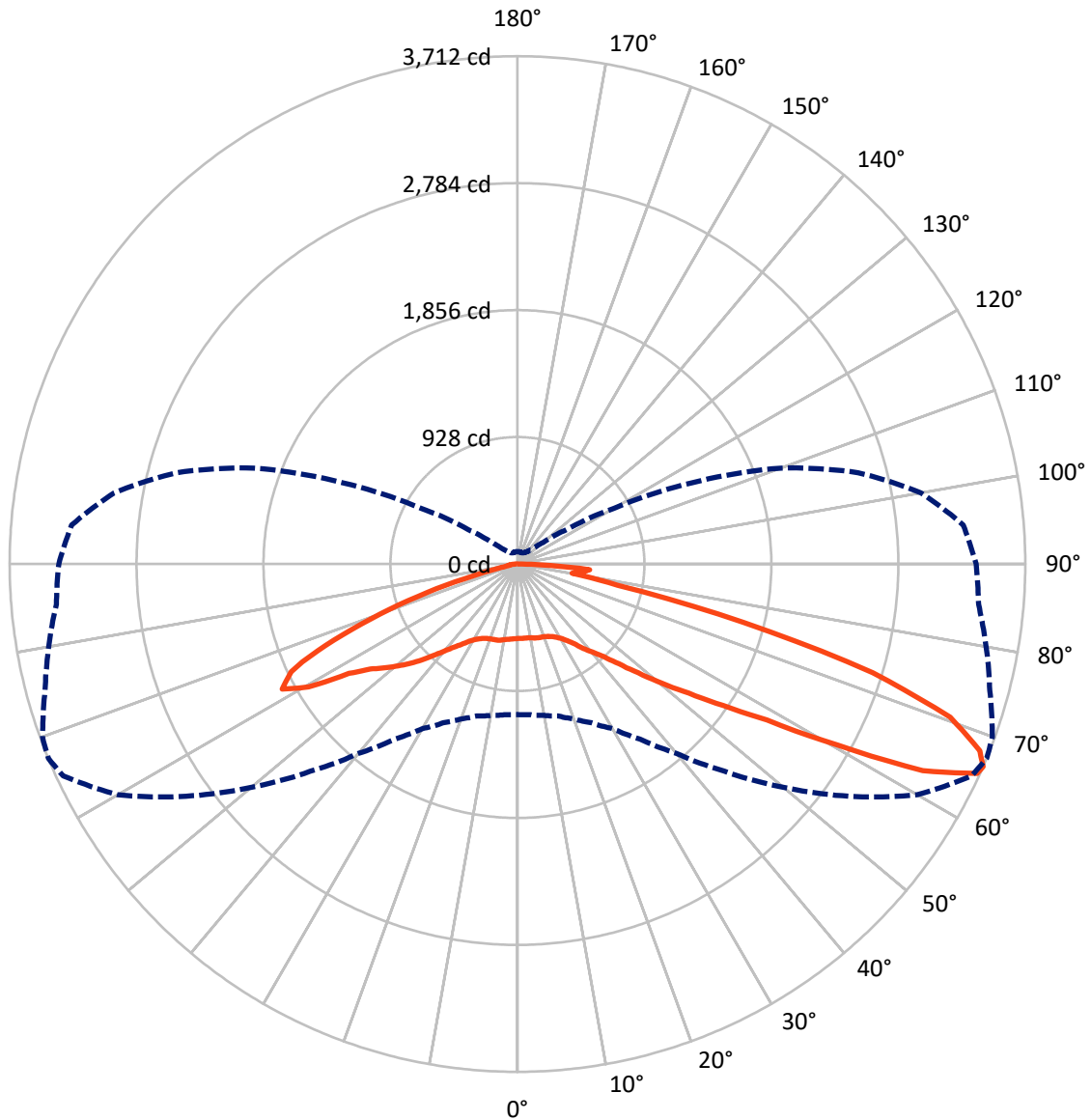
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1718.5   | 0.0    | 1718.5 |
|                    | % Fixture | 34.0     | 0.0    | 34.0   |
| <b>Street Side</b> | Lumens    | 3339.9   | 0.0    | 3339.9 |
|                    | % Fixture | 66.0     | 0.0    | 66.0   |
| <b>Total</b>       | Lumens    | 5058.4   | 0.0    | 5058.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.3   | 1.0       |
| 10°-20°   | 155.0  | 3.1       |
| 20°-30°   | 266.4  | 5.3       |
| 30°-40°   | 428.5  | 8.5       |
| 40°-50°   | 706.3  | 14.0      |
| 50°-60°   | 1107.2 | 21.9      |
| 60°-70°   | 1532.2 | 30.3      |
| 70°-80°   | 693.4  | 13.7      |
| 80°-90°   | 117.0  | 2.3       |
| 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°    | 5058.4 | 100.0     |
| 0°-180°   | 5058.4 | 100.0     |



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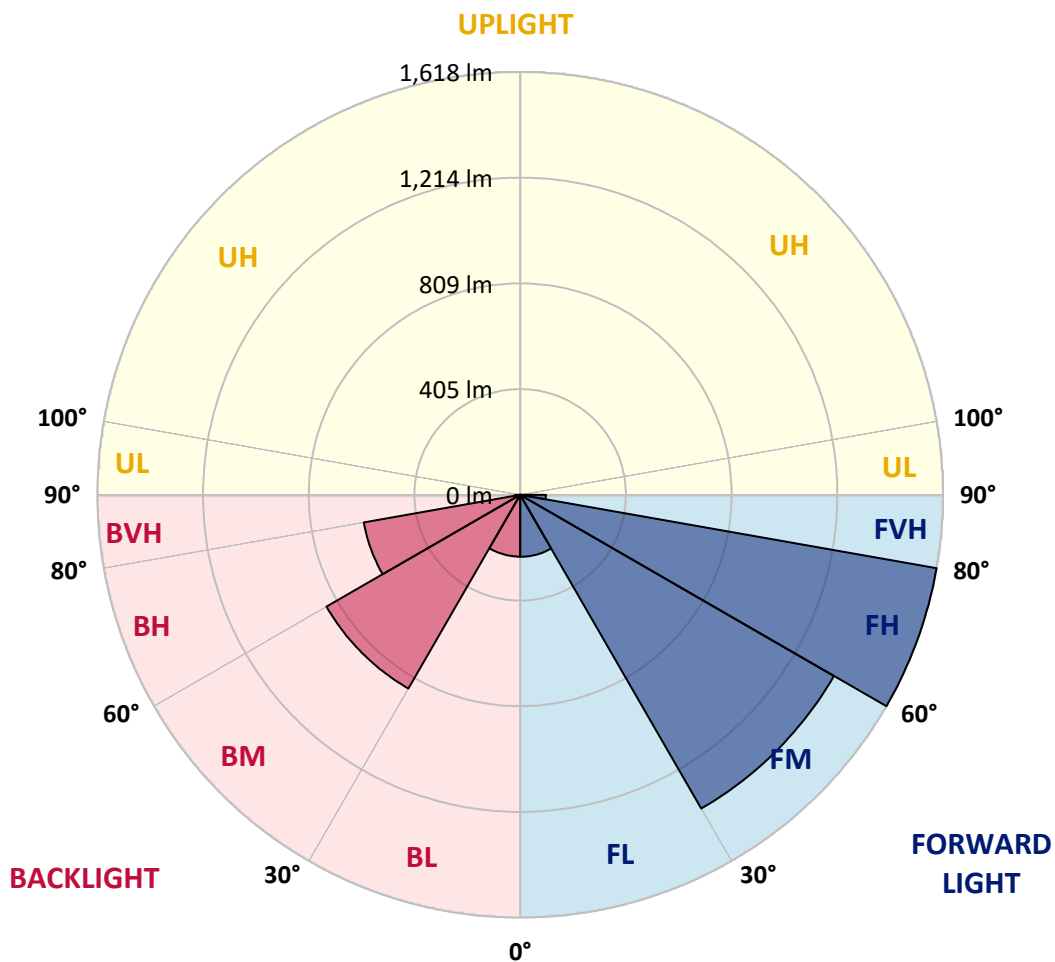
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 237.2  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 1386.2 | 27.4      |                         |      |         |
| FH   | (60°-80°)   | 1618.1 | 32.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 98.3   | 1.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 236.5  | 4.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 855.8  | 16.9      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 607.5  | 12.0      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 18.7   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  |
| 2.5°  | 543.8  | 543.5  | 543.1  | 543.1  | 542.8  | 543.1  | 543.5  | 543.8  | 543.5  | 543.8  | 543.5  |
| 5°    | 542.8  | 542.8  | 542.5  | 542.5  | 542.5  | 542.5  | 542.8  | 543.1  | 542.8  | 543.5  | 542.8  |
| 7.5°  | 538.4  | 540.4  | 539.8  | 540.4  | 541.1  | 541.8  | 542.1  | 542.8  | 543.8  | 544.5  | 543.8  |
| 10°   | 532.6  | 533.7  | 534.0  | 534.7  | 536.0  | 537.7  | 539.1  | 540.8  | 543.1  | 543.8  | 544.5  |
| 12.5° | 522.1  | 523.5  | 524.5  | 525.9  | 527.9  | 530.6  | 533.0  | 535.7  | 539.8  | 542.5  | 544.8  |
| 15°   | 514.3  | 516.0  | 516.4  | 518.1  | 520.1  | 523.2  | 526.2  | 530.3  | 535.7  | 540.4  | 545.2  |
| 17.5° | 519.4  | 520.1  | 519.4  | 519.4  | 520.1  | 521.5  | 523.8  | 527.2  | 533.0  | 538.7  | 544.5  |
| 20°   | 534.7  | 534.7  | 534.0  | 533.7  | 533.0  | 531.6  | 531.3  | 530.9  | 534.7  | 539.1  | 544.2  |
| 22.5° | 549.2  | 549.2  | 548.9  | 550.3  | 549.9  | 549.9  | 548.9  | 547.2  | 545.5  | 544.8  | 548.2  |
| 25°   | 558.4  | 559.7  | 560.4  | 562.5  | 563.8  | 565.8  | 566.5  | 566.2  | 563.8  | 559.7  | 558.7  |
| 27.5° | 573.3  | 574.3  | 575.0  | 577.4  | 580.1  | 582.4  | 584.8  | 587.9  | 587.9  | 584.1  | 579.1  |
| 30°   | 602.1  | 600.7  | 601.4  | 602.1  | 604.5  | 607.9  | 610.9  | 615.0  | 617.0  | 615.7  | 608.9  |
| 32.5° | 628.9  | 630.2  | 630.9  | 632.9  | 635.3  | 640.4  | 644.1  | 648.9  | 653.3  | 653.9  | 650.6  |
| 35°   | 668.2  | 667.5  | 666.5  | 673.6  | 676.3  | 682.1  | 686.5  | 693.2  | 696.6  | 699.7  | 697.7  |
| 37.5° | 730.2  | 728.1  | 726.8  | 728.8  | 732.6  | 736.3  | 742.7  | 747.8  | 753.6  | 760.7  | 758.3  |
| 40°   | 817.9  | 822.0  | 816.2  | 819.0  | 822.0  | 813.5  | 819.3  | 824.0  | 833.9  | 834.2  | 833.9  |
| 42.5° | 932.1  | 935.2  | 933.8  | 935.5  | 930.1  | 927.4  | 925.0  | 927.4  | 939.6  | 937.9  | 929.8  |
| 45°   | 1046.3 | 1050.7 | 1049.7 | 1050.4 | 1060.9 | 1056.5 | 1060.2 | 1060.9 | 1073.4 | 1070.0 | 1063.9 |
| 47.5° | 1143.9 | 1151.3 | 1153.0 | 1159.1 | 1173.4 | 1184.9 | 1200.8 | 1212.7 | 1218.8 | 1222.8 | 1227.6 |
| 50°   | 1221.1 | 1226.6 | 1236.1 | 1251.3 | 1272.0 | 1292.0 | 1327.9 | 1351.3 | 1372.6 | 1387.5 | 1402.8 |
| 52.5° | 1272.3 | 1278.4 | 1293.0 | 1316.0 | 1345.8 | 1382.4 | 1424.4 | 1473.2 | 1518.3 | 1544.7 | 1567.4 |
| 55°   | 1293.3 | 1299.4 | 1317.4 | 1347.5 | 1387.2 | 1433.9 | 1494.2 | 1563.0 | 1623.0 | 1683.6 | 1718.5 |
| 57.5° | 1281.1 | 1287.9 | 1308.6 | 1342.4 | 1390.2 | 1451.5 | 1526.4 | 1610.8 | 1698.6 | 1790.4 | 1860.5 |
| 60°   | 1245.2 | 1251.3 | 1274.7 | 1309.9 | 1364.5 | 1433.6 | 1523.4 | 1629.1 | 1752.4 | 1888.6 | 2021.8 |
| 62.5° | 1195.7 | 1204.9 | 1225.5 | 1261.5 | 1315.7 | 1391.2 | 1493.6 | 1631.1 | 1808.0 | 2027.6 | 2286.8 |
| 65°   | 1132.7 | 1139.5 | 1157.8 | 1186.2 | 1245.9 | 1324.8 | 1432.9 | 1601.3 | 1832.4 | 2143.8 | 2513.8 |
| 66°   | 1100.2 | 1106.6 | 1123.6 | 1150.3 | 1204.9 | 1280.8 | 1388.9 | 1561.3 | 1805.3 | 2143.1 | 2537.8 |
| 67.5° | 1042.9 | 1046.0 | 1058.2 | 1084.6 | 1120.2 | 1188.3 | 1288.6 | 1450.2 | 1690.4 | 2052.6 | 2470.8 |
| 70°   | 874.9  | 879.3  | 891.1  | 904.7  | 917.9  | 942.3  | 1012.4 | 1119.2 | 1311.3 | 1658.6 | 2057.4 |
| 72.5° | 605.2  | 611.9  | 624.8  | 649.9  | 670.5  | 701.4  | 728.8  | 764.4  | 828.1  | 1069.3 | 1471.9 |
| 75°   | 437.4  | 439.8  | 458.8  | 502.8  | 544.5  | 606.2  | 660.7  | 678.0  | 656.3  | 652.6  | 864.7  |
| 77.5° | 260.9  | 264.3  | 291.7  | 336.1  | 379.5  | 463.2  | 575.0  | 661.4  | 709.2  | 692.2  | 654.6  |
| 80°   | 109.8  | 114.5  | 130.8  | 142.3  | 178.2  | 248.4  | 358.8  | 494.4  | 620.4  | 698.0  | 680.4  |
| 82.5° | 35.2   | 41.0   | 48.5   | 58.6   | 69.1   | 92.5   | 143.3  | 214.5  | 338.8  | 505.2  | 621.1  |
| 85°   | 12.9   | 13.2   | 18.3   | 25.4   | 28.1   | 32.5   | 41.7   | 64.4   | 114.5  | 189.4  | 352.4  |
| 87.5° | 5.1    | 6.1    | 7.1    | 9.8    | 10.2   | 10.5   | 11.9   | 15.2   | 14.9   | 12.9   | 66.7   |
| 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):**

|       | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  | 544.5  |
| 2.5°  | 543.8  | 544.5  | 544.2  | 544.5  | 544.5  | 543.8  | 543.8  | 545.2  | 544.2  | 544.8  | 544.8  |
| 5°    | 543.5  | 544.2  | 543.8  | 544.5  | 544.5  | 544.2  | 544.2  | 546.2  | 545.9  | 546.9  | 547.5  |
| 7.5°  | 544.8  | 545.2  | 544.8  | 544.8  | 545.9  | 545.5  | 545.9  | 546.5  | 548.2  | 549.9  | 551.3  |
| 10°   | 546.5  | 547.2  | 548.2  | 548.6  | 549.9  | 549.6  | 550.6  | 551.6  | 553.3  | 555.0  | 556.7  |
| 12.5° | 548.9  | 550.9  | 554.0  | 554.7  | 556.0  | 557.0  | 558.7  | 559.7  | 561.1  | 563.8  | 565.8  |
| 15°   | 550.9  | 554.7  | 558.4  | 559.7  | 561.1  | 562.5  | 564.2  | 565.2  | 567.5  | 569.9  | 572.3  |
| 17.5° | 551.6  | 556.0  | 560.8  | 562.5  | 563.8  | 566.2  | 568.2  | 570.3  | 573.0  | 576.0  | 578.7  |
| 20°   | 552.0  | 558.1  | 564.2  | 566.2  | 569.2  | 572.6  | 576.0  | 577.7  | 581.4  | 585.2  | 587.5  |
| 22.5° | 555.0  | 562.5  | 570.9  | 574.7  | 577.7  | 583.8  | 588.2  | 590.9  | 595.3  | 598.4  | 599.4  |
| 25°   | 563.5  | 571.3  | 581.4  | 587.2  | 592.3  | 601.1  | 606.5  | 611.6  | 614.0  | 618.0  | 617.0  |
| 27.5° | 578.7  | 584.8  | 598.0  | 605.8  | 612.3  | 623.8  | 634.3  | 639.0  | 642.8  | 644.8  | 642.4  |
| 30°   | 604.8  | 607.2  | 621.8  | 631.2  | 642.1  | 660.0  | 671.6  | 677.7  | 682.4  | 682.7  | 676.6  |
| 32.5° | 643.8  | 640.1  | 652.9  | 666.5  | 680.7  | 702.4  | 718.0  | 724.4  | 728.1  | 728.5  | 714.9  |
| 35°   | 696.6  | 690.2  | 701.0  | 714.3  | 731.9  | 760.3  | 780.0  | 787.4  | 793.2  | 790.5  | 770.5  |
| 37.5° | 763.4  | 763.0  | 768.1  | 785.1  | 805.1  | 841.7  | 862.3  | 866.4  | 866.1  | 857.9  | 827.8  |
| 40°   | 837.6  | 831.5  | 832.2  | 844.4  | 867.4  | 915.5  | 944.3  | 951.1  | 948.7  | 936.9  | 897.6  |
| 42.5° | 931.1  | 928.4  | 919.2  | 925.7  | 947.0  | 1005.6 | 1040.5 | 1047.3 | 1049.4 | 1029.7 | 983.3  |
| 45°   | 1062.2 | 1059.9 | 1039.5 | 1040.9 | 1056.5 | 1118.1 | 1154.4 | 1165.6 | 1165.9 | 1147.3 | 1087.0 |
| 47.5° | 1221.1 | 1219.1 | 1195.4 | 1188.6 | 1196.4 | 1251.3 | 1296.4 | 1298.7 | 1299.4 | 1273.7 | 1211.0 |
| 50°   | 1401.4 | 1395.6 | 1377.7 | 1370.6 | 1361.4 | 1422.1 | 1458.3 | 1458.0 | 1454.3 | 1425.8 | 1355.3 |
| 52.5° | 1575.6 | 1588.4 | 1581.7 | 1567.8 | 1568.1 | 1611.8 | 1646.0 | 1627.1 | 1629.4 | 1602.3 | 1521.3 |
| 55°   | 1761.6 | 1794.4 | 1819.2 | 1824.3 | 1821.9 | 1844.3 | 1863.2 | 1829.3 | 1816.8 | 1812.4 | 1726.3 |
| 57.5° | 1959.1 | 2043.1 | 2119.4 | 2151.2 | 2139.0 | 2180.0 | 2197.0 | 2161.7 | 2162.4 | 2197.0 | 2122.8 |
| 60°   | 2223.1 | 2435.2 | 2627.3 | 2686.9 | 2714.7 | 2782.5 | 2752.3 | 2750.3 | 2803.5 | 2848.2 | 2710.6 |
| 62.5° | 2623.6 | 2974.9 | 3281.6 | 3326.0 | 3348.3 | 3363.6 | 3350.0 | 3313.1 | 3368.0 | 3373.4 | 3161.3 |
| 65°   | 2927.2 | 3339.5 | 3636.0 | 3691.6 | 3687.5 | 3609.9 | 3534.7 | 3460.8 | 3460.1 | 3405.9 | 3132.8 |
| 66°   | 2960.0 | 3374.1 | 3663.1 | 3712.2 | 3694.3 | 3574.7 | 3479.1 | 3383.2 | 3352.4 | 3271.1 | 2993.9 |
| 67.5° | 2888.2 | 3313.8 | 3600.7 | 3644.8 | 3606.5 | 3424.6 | 3294.4 | 3164.7 | 3118.3 | 3005.1 | 2722.5 |
| 70°   | 2469.1 | 2907.5 | 3291.4 | 3355.1 | 3309.7 | 3068.1 | 2875.3 | 2732.7 | 2606.3 | 2494.8 | 2261.7 |
| 72.5° | 1914.4 | 2242.4 | 2648.6 | 2715.0 | 2718.8 | 2529.7 | 2312.5 | 2175.6 | 2028.6 | 1916.8 | 1741.9 |
| 75°   | 1255.7 | 1503.7 | 1727.0 | 1704.7 | 1711.1 | 1562.3 | 1432.9 | 1319.1 | 1185.9 | 1097.8 | 1014.5 |
| 77.5° | 733.9  | 822.7  | 802.4  | 746.8  | 700.0  | 550.3  | 393.7  | 270.4  | 235.8  | 246.0  | 277.5  |
| 80°   | 638.0  | 588.2  | 460.5  | 404.9  | 368.3  | 250.1  | 134.5  | 94.9   | 83.4   | 84.4   | 89.5   |
| 82.5° | 686.8  | 712.6  | 584.8  | 481.5  | 419.8  | 294.4  | 158.2  | 78.9   | 56.9   | 66.4   | 73.2   |
| 85°   | 533.0  | 678.3  | 625.5  | 528.6  | 444.5  | 313.1  | 161.6  | 50.1   | 33.9   | 45.4   | 57.3   |
| 87.5° | 151.8  | 240.2  | 192.1  | 169.8  | 136.9  | 93.5   | 38.6   | 20.0   | 18.3   | 23.7   | 32.9   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 544.5  | 544.5  | 544.5  | 544.5  | 544.5 | 544.5 | 544.5 | 544.5 | 544.5 | 544.5 | 544.5 |
| 2.5°  | 545.2  | 545.2  | 546.2  | 546.5  | 546.9 | 546.9 | 547.5 | 547.5 | 547.9 | 549.2 | 548.9 |
| 5°    | 548.6  | 549.6  | 550.9  | 551.6  | 552.6 | 553.0 | 554.0 | 554.0 | 555.0 | 556.0 | 555.7 |
| 7.5°  | 552.6  | 553.6  | 554.7  | 555.7  | 556.7 | 558.1 | 557.7 | 557.4 | 557.0 | 556.4 | 555.7 |
| 10°   | 558.4  | 559.4  | 560.4  | 560.1  | 559.4 | 558.7 | 556.0 | 553.0 | 551.6 | 548.9 | 546.9 |
| 12.5° | 567.9  | 568.9  | 567.9  | 565.2  | 561.4 | 557.0 | 551.3 | 546.2 | 543.1 | 539.1 | 536.7 |
| 15°   | 575.0  | 576.0  | 574.0  | 569.2  | 563.1 | 557.4 | 549.6 | 543.1 | 537.7 | 533.3 | 529.9 |
| 17.5° | 580.4  | 579.7  | 575.3  | 569.9  | 563.5 | 558.7 | 551.6 | 544.5 | 538.1 | 532.0 | 527.2 |
| 20°   | 588.2  | 584.5  | 578.0  | 571.3  | 564.8 | 560.8 | 555.0 | 548.6 | 541.8 | 533.0 | 526.9 |
| 22.5° | 598.4  | 591.6  | 583.1  | 576.4  | 570.3 | 566.2 | 560.4 | 554.3 | 547.9 | 537.7 | 529.3 |
| 25°   | 612.9  | 602.1  | 592.3  | 585.2  | 579.7 | 575.7 | 568.6 | 562.1 | 555.0 | 544.8 | 534.0 |
| 27.5° | 633.3  | 617.7  | 607.5  | 600.4  | 595.0 | 590.2 | 581.1 | 573.3 | 564.2 | 554.0 | 541.1 |
| 30°   | 659.7  | 640.7  | 629.5  | 623.4  | 617.7 | 610.9 | 601.1 | 589.6 | 577.7 | 564.2 | 550.3 |
| 32.5° | 692.6  | 671.2  | 660.7  | 654.6  | 647.2 | 638.0 | 625.1 | 609.9 | 592.3 | 574.3 | 557.0 |
| 35°   | 739.3  | 714.9  | 703.4  | 692.9  | 682.1 | 668.5 | 649.2 | 627.2 | 603.8 | 580.4 | 559.1 |
| 37.5° | 785.7  | 763.0  | 748.8  | 738.0  | 721.0 | 699.0 | 672.2 | 641.7 | 610.6 | 580.8 | 555.0 |
| 40°   | 851.5  | 825.1  | 808.4  | 789.1  | 761.7 | 727.5 | 688.5 | 647.5 | 608.9 | 573.0 | 542.5 |
| 42.5° | 932.1  | 902.0  | 877.2  | 842.3  | 799.6 | 750.2 | 696.3 | 644.1 | 597.0 | 555.7 | 522.1 |
| 45°   | 1034.1 | 994.8  | 953.5  | 898.6  | 833.2 | 764.1 | 696.0 | 632.3 | 576.7 | 529.9 | 496.7 |
| 47.5° | 1153.0 | 1097.8 | 1028.3 | 944.7  | 855.2 | 767.5 | 685.1 | 610.9 | 546.2 | 494.7 | 456.4 |
| 50°   | 1275.4 | 1195.4 | 1096.8 | 980.2  | 866.4 | 759.0 | 661.1 | 576.0 | 506.2 | 447.6 | 406.3 |
| 52.5° | 1426.1 | 1302.1 | 1158.8 | 1004.3 | 861.6 | 733.9 | 621.1 | 526.9 | 452.3 | 395.1 | 347.6 |
| 55°   | 1605.7 | 1424.8 | 1217.8 | 1017.5 | 840.6 | 688.8 | 560.4 | 462.5 | 384.2 | 332.1 | 289.4 |
| 57.5° | 1902.9 | 1616.9 | 1318.4 | 1037.2 | 799.3 | 621.8 | 486.6 | 385.2 | 311.7 | 267.3 | 233.1 |
| 60°   | 2415.2 | 2011.0 | 1531.2 | 1085.6 | 742.0 | 526.2 | 392.7 | 301.9 | 241.2 | 205.7 | 181.6 |
| 62.5° | 2772.6 | 2249.8 | 1645.7 | 1069.0 | 644.8 | 414.4 | 290.4 | 215.8 | 175.9 | 152.5 | 136.2 |
| 65°   | 2703.2 | 2155.6 | 1507.8 | 908.1  | 505.2 | 293.1 | 193.1 | 146.0 | 123.3 | 108.8 | 100.6 |
| 66°   | 2578.5 | 2051.6 | 1402.8 | 815.2  | 438.1 | 244.3 | 159.3 | 121.0 | 106.1 | 95.6  | 90.1  |
| 67.5° | 2351.1 | 1836.1 | 1214.0 | 654.3  | 328.0 | 180.3 | 121.0 | 94.2  | 86.1  | 80.6  | 76.9  |
| 70°   | 1946.6 | 1451.9 | 835.9  | 386.6  | 173.5 | 101.0 | 76.9  | 69.5  | 65.7  | 63.4  | 63.0  |
| 72.5° | 1492.5 | 1041.6 | 483.5  | 187.0  | 92.8  | 67.1  | 59.0  | 56.2  | 54.9  | 54.2  | 54.2  |
| 75°   | 922.0  | 587.5  | 216.2  | 93.9   | 64.0  | 54.9  | 51.2  | 49.8  | 49.5  | 49.5  | 49.5  |
| 77.5° | 324.3  | 204.7  | 96.9   | 68.8   | 56.2  | 49.5  | 46.4  | 45.7  | 46.4  | 46.4  | 46.4  |
| 80°   | 89.5   | 78.9   | 70.1   | 61.0   | 50.8  | 45.7  | 43.0  | 42.7  | 44.0  | 44.4  | 43.0  |
| 82.5° | 69.8   | 65.7   | 60.0   | 54.6   | 46.4  | 41.7  | 40.3  | 41.0  | 41.7  | 40.7  | 38.6  |
| 85°   | 59.6   | 56.9   | 42.0   | 42.0   | 37.6  | 36.3  | 35.9  | 36.6  | 36.3  | 33.5  | 30.8  |
| 87.5° | 33.9   | 29.8   | 22.7   | 24.7   | 26.4  | 27.1  | 22.7  | 24.4  | 24.1  | 21.3  | 20.0  |
| 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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|       | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 544.5 | 544.5 | 544.5 | 544.5 | 544.5 |
| 2.5°  | 549.6 | 549.6 | 550.3 | 550.3 | 549.9 |
| 5°    | 556.4 | 556.4 | 557.4 | 556.7 | 557.0 |
| 7.5°  | 555.0 | 553.6 | 553.6 | 553.0 | 552.6 |
| 10°   | 545.5 | 543.1 | 541.8 | 542.5 | 541.5 |
| 12.5° | 534.7 | 532.6 | 531.3 | 530.9 | 530.6 |
| 15°   | 527.9 | 525.5 | 524.5 | 523.8 | 523.8 |
| 17.5° | 524.2 | 521.5 | 520.1 | 519.1 | 518.7 |
| 20°   | 522.5 | 519.1 | 517.1 | 516.0 | 515.4 |
| 22.5° | 523.2 | 519.1 | 516.4 | 515.0 | 514.3 |
| 25°   | 525.9 | 520.8 | 517.4 | 515.7 | 514.7 |
| 27.5° | 530.6 | 523.8 | 520.1 | 517.7 | 516.4 |
| 30°   | 536.4 | 526.9 | 521.5 | 518.1 | 516.7 |
| 32.5° | 540.1 | 527.2 | 520.4 | 515.4 | 514.0 |
| 35°   | 539.4 | 523.5 | 514.7 | 508.2 | 507.2 |
| 37.5° | 532.6 | 513.7 | 502.8 | 494.4 | 493.3 |
| 40°   | 518.1 | 498.8 | 486.2 | 477.8 | 475.7 |
| 42.5° | 497.7 | 477.8 | 464.2 | 456.4 | 453.7 |
| 45°   | 467.9 | 443.5 | 431.0 | 424.6 | 420.8 |
| 47.5° | 425.9 | 402.9 | 389.0 | 383.6 | 378.8 |
| 50°   | 378.1 | 352.7 | 342.6 | 336.5 | 331.0 |
| 52.5° | 321.9 | 300.2 | 292.4 | 286.7 | 282.2 |
| 55°   | 267.3 | 252.1 | 242.9 | 236.8 | 237.2 |
| 57.5° | 214.8 | 205.7 | 200.6 | 194.1 | 194.8 |
| 60°   | 169.1 | 161.3 | 161.3 | 157.2 | 155.9 |
| 62.5° | 129.1 | 126.0 | 125.0 | 123.7 | 121.3 |
| 65°   | 97.9  | 97.9  | 98.3  | 98.3  | 96.9  |
| 66°   | 88.1  | 89.1  | 90.5  | 90.5  | 88.8  |
| 67.5° | 76.2  | 77.6  | 78.9  | 79.6  | 79.6  |
| 70°   | 63.0  | 64.7  | 65.4  | 66.1  | 65.7  |
| 72.5° | 55.2  | 56.6  | 56.6  | 56.9  | 56.2  |
| 75°   | 50.1  | 50.8  | 51.2  | 50.5  | 50.1  |
| 77.5° | 46.4  | 46.8  | 46.4  | 46.1  | 45.7  |
| 80°   | 42.0  | 41.7  | 40.7  | 39.3  | 39.0  |
| 82.5° | 36.3  | 34.9  | 34.2  | 32.2  | 31.9  |
| 85°   | 29.1  | 27.4  | 26.1  | 23.4  | 22.0  |
| 87.5° | 19.3  | 18.6  | 17.6  | 12.9  | 10.5  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)