

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: P163599

Luminaire Tested: **LDRC-SL3-E04-E-7060-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163599  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRC-SL3-E04-E-7060-HSS  
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (84) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6902.8 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2

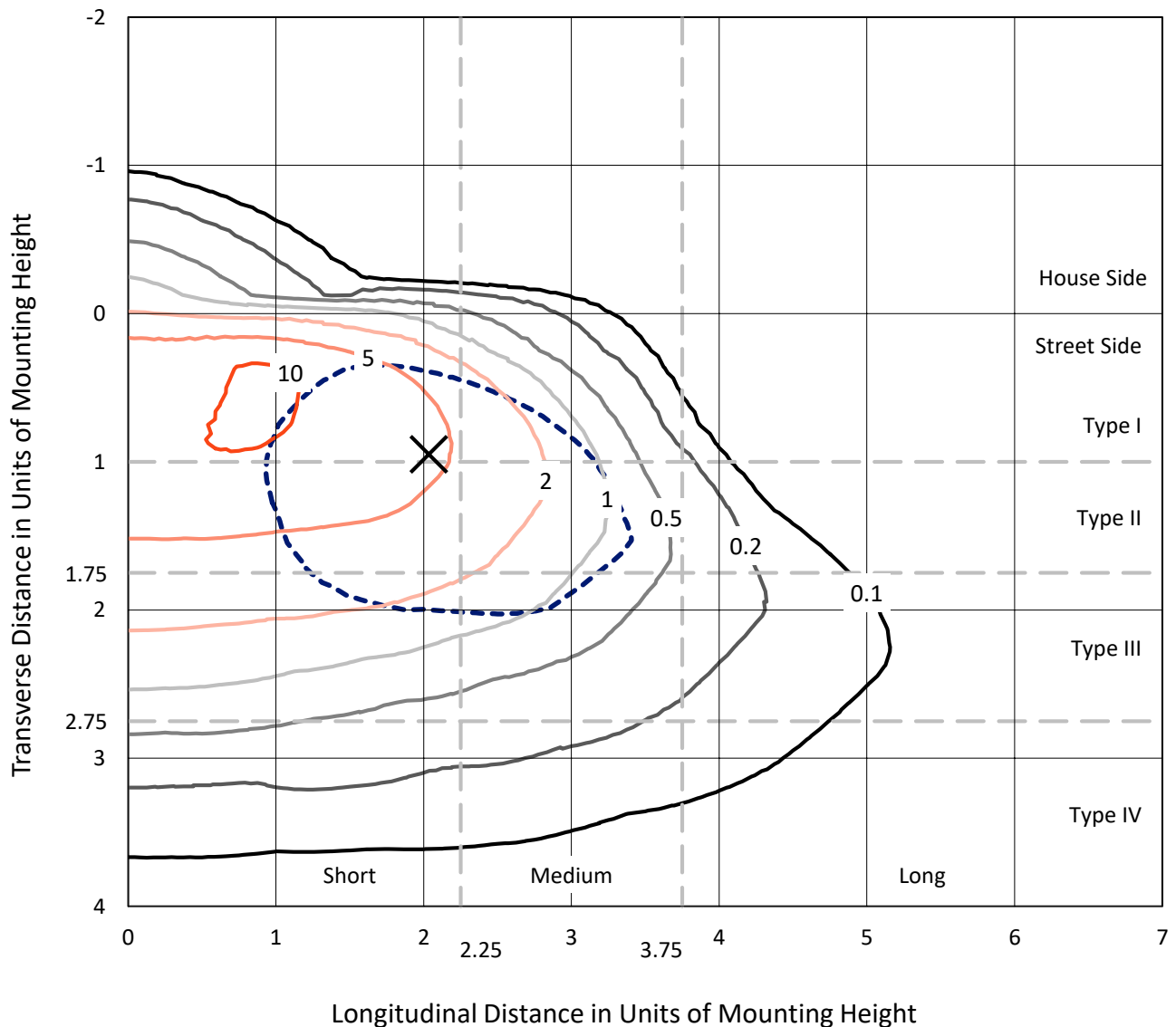
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

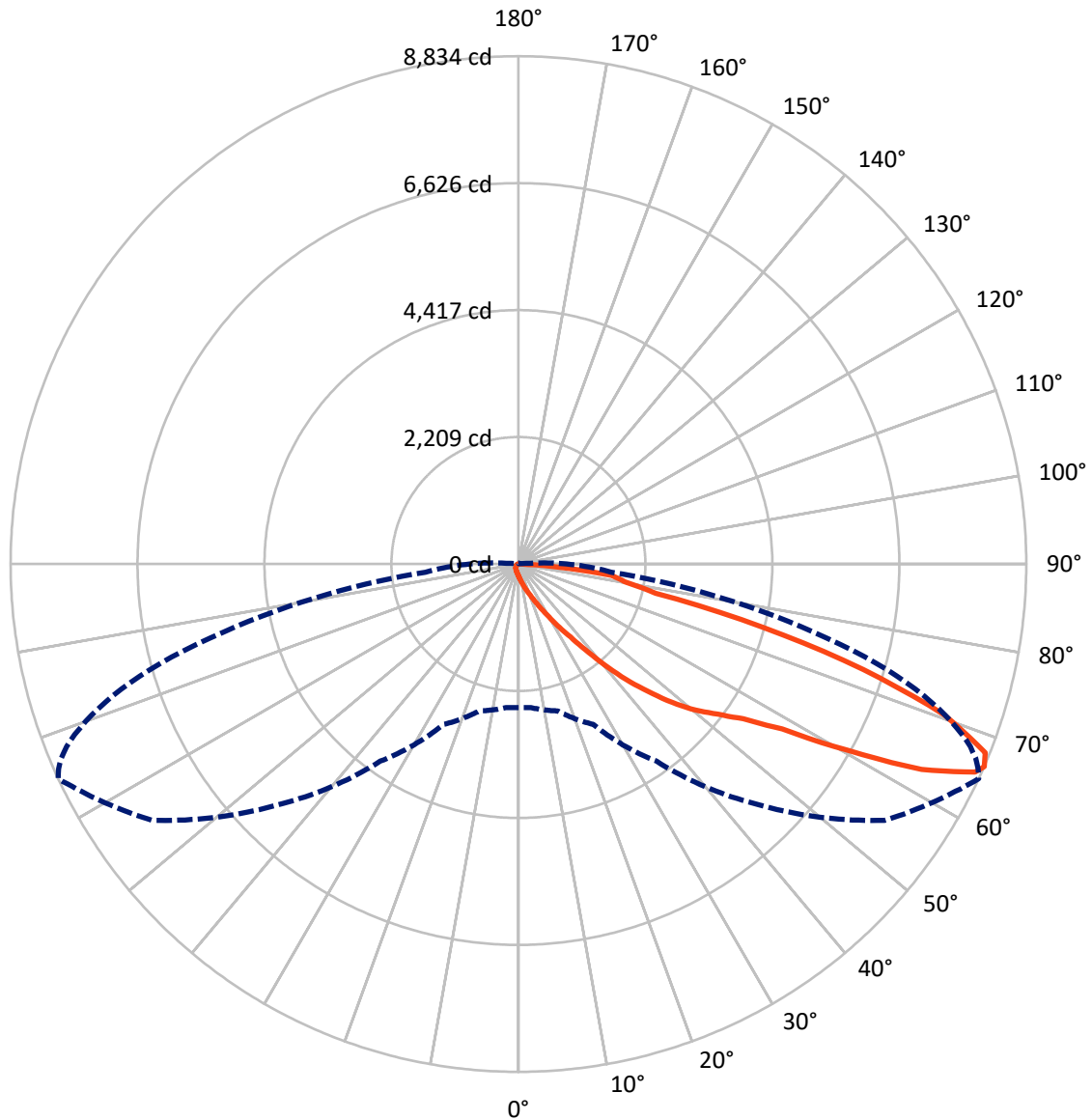


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 149.6    | 0.0    | 149.6  |
|                    | % Fixture | 2.2      | 0.0    | 2.2    |
| <b>Street Side</b> | Lumens    | 6753.2   | 0.0    | 6753.2 |
|                    | % Fixture | 97.8     | 0.0    | 97.8   |
| <b>Total</b>       | Lumens    | 6902.8   | 0.0    | 6902.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.3   | 0.3       |
| 10°-20°   | 98.9   | 1.4       |
| 20°-30°   | 213.3  | 3.1       |
| 30°-40°   | 455.5  | 6.6       |
| 40°-50°   | 1007.4 | 14.6      |
| 50°-60°   | 1707.2 | 24.7      |
| 60°-70°   | 2278.1 | 33.0      |
| 70°-80°   | 1003.5 | 14.5      |
| 80°-90°   | 115.6  | 1.7       |
| 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°    | 6902.8 | 100.0     |
| 0°-180°   | 6902.8 | 100.0     |



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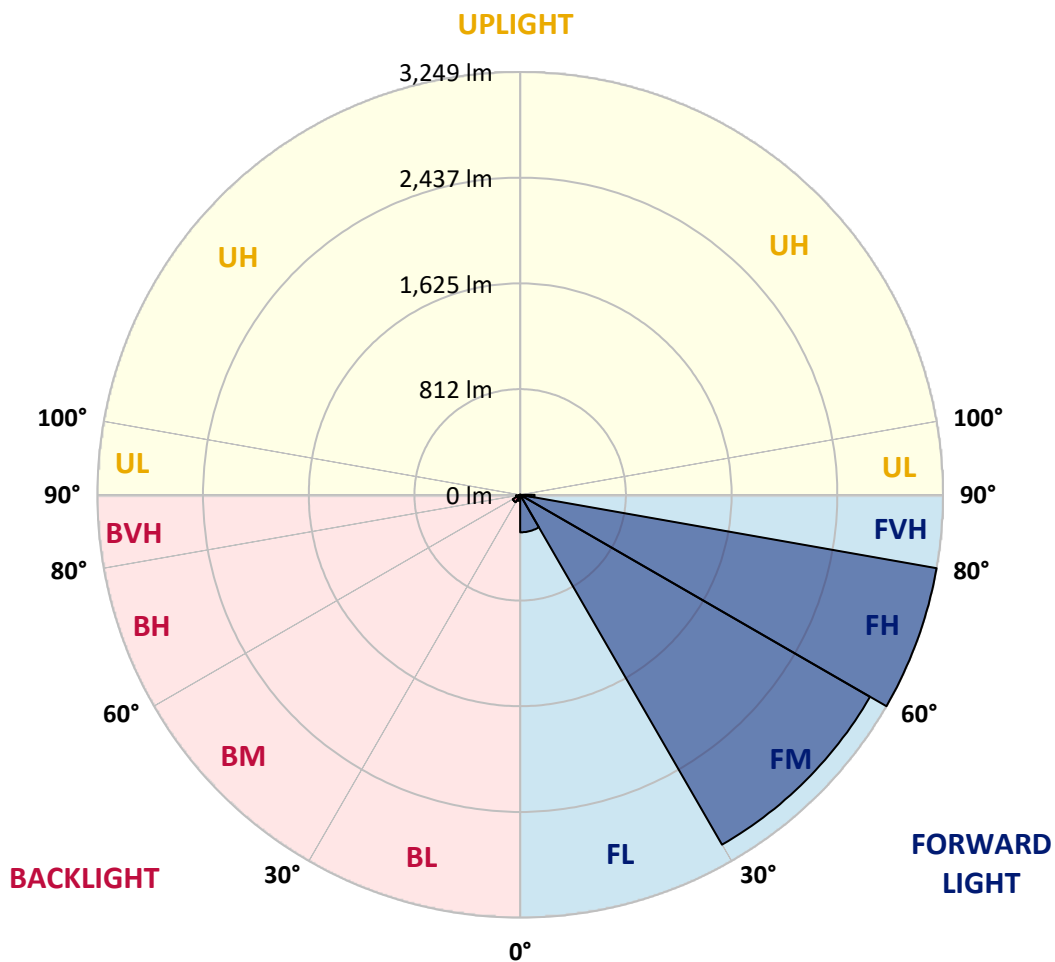
CATALOG NUMBER: LDRC-SL3-E04-E-7060-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 288.3  | 4.2       |                         |      |         |
| FM   | (30°-60°)   | 3104.4 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 3249.5 | 47.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 111.0  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 47.2   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 65.7   | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 32.1   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 4.6    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  |
| 2.5°  | 262.8  | 261.5  | 256.1  | 256.1  | 248.2  | 242.8  | 236.3  | 229.6  | 229.6  | 228.3  | 226.9  |
| 5°    | 347.7  | 339.8  | 338.4  | 323.8  | 311.9  | 294.6  | 278.7  | 257.4  | 254.8  | 252.2  | 250.8  |
| 7.5°  | 441.9  | 440.6  | 428.7  | 411.4  | 387.5  | 355.7  | 323.8  | 289.3  | 284.0  | 281.3  | 276.1  |
| 10°   | 564.0  | 557.4  | 541.5  | 512.2  | 476.4  | 433.9  | 382.2  | 327.8  | 321.1  | 315.9  | 313.2  |
| 12.5° | 680.8  | 668.9  | 659.6  | 622.4  | 577.2  | 514.9  | 452.6  | 374.2  | 368.9  | 362.3  | 351.7  |
| 15°   | 789.6  | 779.0  | 763.1  | 731.2  | 680.8  | 602.5  | 529.5  | 433.9  | 420.7  | 411.4  | 403.5  |
| 17.5° | 874.6  | 867.9  | 849.4  | 813.5  | 759.1  | 690.1  | 602.5  | 495.0  | 484.4  | 472.4  | 457.8  |
| 20°   | 955.5  | 946.2  | 917.0  | 867.9  | 809.6  | 756.4  | 688.7  | 574.6  | 560.0  | 545.4  | 529.5  |
| 22.5° | 1032.5 | 1023.2 | 975.4  | 894.4  | 832.0  | 809.6  | 785.7  | 664.8  | 642.3  | 630.4  | 614.4  |
| 25°   | 1140.0 | 1120.1 | 1045.7 | 917.0  | 833.4  | 850.7  | 891.8  | 781.6  | 760.4  | 743.1  | 717.9  |
| 27.5° | 1284.6 | 1258.1 | 1141.3 | 950.2  | 838.7  | 895.7  | 1013.9 | 923.7  | 901.1  | 881.2  | 853.3  |
| 30°   | 1447.9 | 1430.6 | 1291.3 | 1029.8 | 877.2  | 962.2  | 1150.6 | 1104.2 | 1077.6 | 1053.7 | 1020.5 |
| 32.5° | 1612.4 | 1588.5 | 1450.5 | 1181.1 | 980.7  | 1090.9 | 1321.8 | 1313.8 | 1279.3 | 1256.8 | 1220.9 |
| 35°   | 1757.0 | 1745.1 | 1642.9 | 1429.2 | 1217.0 | 1316.5 | 1550.0 | 1559.4 | 1528.8 | 1504.9 | 1465.1 |
| 37.5° | 1855.3 | 1855.3 | 1835.3 | 1696.0 | 1592.5 | 1666.8 | 1885.8 | 1887.1 | 1856.6 | 1802.2 | 1782.3 |
| 40°   | 1905.7 | 1920.3 | 1992.0 | 2018.5 | 2013.2 | 2108.8 | 2326.4 | 2302.5 | 2277.3 | 2249.4 | 2183.1 |
| 42.5° | 2009.2 | 2022.5 | 2175.1 | 2358.2 | 2477.7 | 2603.8 | 2753.7 | 2745.7 | 2715.2 | 2664.8 | 2603.8 |
| 45°   | 2184.4 | 2201.6 | 2383.4 | 2674.0 | 2919.6 | 3098.8 | 3194.3 | 3157.1 | 3126.6 | 3078.8 | 3047.0 |
| 47.5° | 2407.3 | 2440.5 | 2646.2 | 3005.8 | 3301.8 | 3597.7 | 3697.3 | 3599.1 | 3572.5 | 3535.4 | 3483.6 |
| 50°   | 2644.9 | 2676.7 | 2895.7 | 3307.1 | 3641.5 | 3994.5 | 4160.4 | 3994.5 | 3956.0 | 3944.1 | 3885.7 |
| 52.5° | 2850.6 | 2877.1 | 3088.1 | 3539.3 | 3901.7 | 4315.6 | 4557.2 | 4338.2 | 4310.4 | 4270.6 | 4228.0 |
| 55°   | 2972.7 | 2993.9 | 3191.6 | 3650.8 | 4078.2 | 4605.0 | 4940.7 | 4748.3 | 4707.2 | 4691.3 | 4630.2 |
| 57.5° | 3013.8 | 3035.1 | 3212.9 | 3665.4 | 4173.7 | 4869.1 | 5406.5 | 5413.2 | 5364.1 | 5307.0 | 5288.5 |
| 60°   | 3013.8 | 3037.7 | 3187.7 | 3629.5 | 4266.5 | 5150.4 | 6027.6 | 6581.0 | 6474.8 | 6464.2 | 6396.6 |
| 62.5° | 2889.0 | 2911.6 | 3062.9 | 3519.5 | 4391.3 | 5530.0 | 6892.9 | 7869.6 | 7839.1 | 7770.1 | 7658.6 |
| 65°   | 2618.4 | 2631.6 | 2780.3 | 3238.1 | 4343.5 | 5879.0 | 7642.7 | 8726.9 | 8677.8 | 8542.5 | 8399.1 |
| 66°   | 2496.2 | 2506.9 | 2646.2 | 3077.5 | 4186.9 | 5926.8 | 7775.4 | 8834.4 | 8753.4 | 8639.3 | 8477.4 |
| 67.5° | 2319.7 | 2338.3 | 2436.5 | 2778.9 | 3811.4 | 5760.9 | 7691.8 | 8758.8 | 8688.4 | 8550.4 | 8388.5 |
| 70°   | 1548.7 | 1535.5 | 1881.8 | 2132.7 | 2903.6 | 4693.9 | 6900.8 | 7864.3 | 7865.6 | 7800.6 | 7735.6 |
| 72.5° | 735.2  | 743.1  | 844.0  | 1312.5 | 1900.3 | 3135.9 | 5492.8 | 6277.1 | 6367.4 | 6250.5 | 6169.6 |
| 75°   | 528.2  | 540.1  | 601.1  | 802.9  | 1133.3 | 1881.8 | 3560.6 | 4390.0 | 4392.6 | 4185.6 | 4001.2 |
| 77.5° | 153.9  | 160.6  | 225.6  | 495.0  | 849.4  | 1270.0 | 2045.1 | 2440.5 | 2383.4 | 2234.8 | 2095.5 |
| 80°   | 63.7   | 63.7   | 66.3   | 157.9  | 341.1  | 862.6  | 1430.6 | 1879.2 | 1872.5 | 1815.5 | 1733.1 |
| 82.5° | 23.9   | 25.2   | 31.9   | 65.0   | 80.9   | 212.4  | 954.2  | 1631.0 | 1627.0 | 1546.1 | 1487.7 |
| 85°   | 2.6    | 2.6    | 8.0    | 27.8   | 30.5   | 39.8   | 191.1  | 719.3  | 715.3  | 719.3  | 630.4  |
| 87.5° | 0.0    | 0.0    | 1.3    | 2.6    | 3.9    | 5.3    | 8.0    | 27.8   | 30.5   | 29.2   | 26.5   |
| 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):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  |
| 2.5°  | 226.9  | 224.3  | 224.3  | 223.0  | 223.0  | 223.0  | 221.6  | 220.3  | 220.3  | 218.9  | 217.6  |
| 5°    | 248.2  | 245.5  | 244.2  | 241.5  | 240.2  | 238.9  | 236.3  | 234.9  | 232.2  | 230.9  | 229.6  |
| 7.5°  | 273.4  | 268.1  | 266.7  | 262.8  | 258.7  | 256.1  | 253.5  | 249.5  | 246.8  | 241.5  | 240.2  |
| 10°   | 305.2  | 298.6  | 293.3  | 288.0  | 284.0  | 277.4  | 273.4  | 268.1  | 262.8  | 258.7  | 254.8  |
| 12.5° | 346.3  | 337.1  | 329.1  | 323.8  | 314.5  | 306.5  | 298.6  | 294.6  | 284.0  | 278.7  | 272.0  |
| 15°   | 391.5  | 380.9  | 371.6  | 360.9  | 354.3  | 341.1  | 330.4  | 318.5  | 313.2  | 303.9  | 293.3  |
| 17.5° | 449.8  | 432.6  | 418.0  | 407.4  | 394.1  | 380.9  | 368.9  | 357.0  | 341.1  | 330.4  | 317.2  |
| 20°   | 512.2  | 497.6  | 477.8  | 459.2  | 443.3  | 427.4  | 410.0  | 394.1  | 379.6  | 362.3  | 346.3  |
| 22.5° | 591.9  | 570.7  | 546.8  | 528.2  | 507.0  | 489.7  | 465.8  | 444.6  | 420.7  | 398.1  | 379.6  |
| 25°   | 692.7  | 664.8  | 642.3  | 615.7  | 590.5  | 564.0  | 534.8  | 508.3  | 477.8  | 456.5  | 424.6  |
| 27.5° | 817.5  | 790.9  | 760.4  | 725.9  | 700.7  | 660.9  | 622.4  | 589.2  | 553.4  | 520.2  | 484.4  |
| 30°   | 976.8  | 938.3  | 906.4  | 873.3  | 822.8  | 784.3  | 739.2  | 694.1  | 645.0  | 611.8  | 557.4  |
| 32.5° | 1167.9 | 1126.7 | 1078.9 | 1031.1 | 984.7  | 930.3  | 874.6  | 818.8  | 764.4  | 703.3  | 647.6  |
| 35°   | 1401.4 | 1352.3 | 1297.9 | 1246.1 | 1174.4 | 1116.1 | 1045.7 | 968.8  | 907.7  | 837.4  | 767.0  |
| 37.5° | 1710.6 | 1629.6 | 1581.8 | 1527.5 | 1430.6 | 1350.9 | 1272.7 | 1195.7 | 1088.2 | 1013.9 | 914.4  |
| 40°   | 2098.1 | 2050.3 | 1972.0 | 1884.4 | 1796.8 | 1692.0 | 1585.9 | 1483.7 | 1358.9 | 1255.5 | 1140.0 |
| 42.5° | 2553.3 | 2483.0 | 2403.4 | 2277.3 | 2188.4 | 2064.9 | 1944.2 | 1808.8 | 1656.2 | 1523.5 | 1388.1 |
| 45°   | 2980.6 | 2897.0 | 2836.0 | 2709.9 | 2617.0 | 2471.0 | 2325.1 | 2181.7 | 2005.3 | 1834.0 | 1677.4 |
| 47.5° | 3442.5 | 3373.4 | 3272.6 | 3170.4 | 3076.2 | 2911.6 | 2753.7 | 2579.9 | 2394.0 | 2191.0 | 1987.9 |
| 50°   | 3848.6 | 3794.1 | 3725.1 | 3601.7 | 3496.9 | 3358.8 | 3173.0 | 2983.3 | 2748.4 | 2546.7 | 2315.8 |
| 52.5° | 4193.6 | 4151.1 | 4054.3 | 3966.7 | 3872.4 | 3742.4 | 3576.5 | 3394.7 | 3141.2 | 2919.6 | 2656.8 |
| 55°   | 4601.0 | 4570.4 | 4485.6 | 4431.1 | 4347.5 | 4222.8 | 4067.5 | 3899.0 | 3630.9 | 3389.3 | 3092.1 |
| 57.5° | 5268.5 | 5244.6 | 5170.3 | 5147.8 | 5065.5 | 4956.7 | 4765.6 | 4585.0 | 4271.9 | 3971.9 | 3632.2 |
| 60°   | 6374.0 | 6326.2 | 6217.4 | 6161.6 | 5987.8 | 5841.8 | 5593.7 | 5345.5 | 4967.3 | 4585.0 | 4176.3 |
| 62.5° | 7557.7 | 7423.7 | 7216.6 | 7038.8 | 6792.0 | 6538.5 | 6206.8 | 5827.2 | 5383.9 | 4930.1 | 4460.4 |
| 65°   | 8196.0 | 7967.8 | 7706.4 | 7423.7 | 7103.9 | 6730.9 | 6312.9 | 5857.7 | 5381.3 | 4902.2 | 4405.9 |
| 66°   | 8269.0 | 8011.6 | 7734.2 | 7419.7 | 7064.0 | 6667.2 | 6242.6 | 5764.8 | 5269.8 | 4802.7 | 4306.4 |
| 67.5° | 8177.5 | 7908.1 | 7614.8 | 7265.8 | 6880.9 | 6469.6 | 6023.6 | 5527.3 | 5050.9 | 4577.1 | 4094.1 |
| 70°   | 7536.5 | 7268.4 | 7007.0 | 6639.4 | 6229.4 | 5815.3 | 5393.3 | 4838.5 | 4387.3 | 3952.1 | 3522.1 |
| 72.5° | 6018.3 | 5836.5 | 5577.7 | 5263.2 | 4863.7 | 4378.0 | 4026.4 | 3530.0 | 3138.6 | 2716.6 | 2383.4 |
| 75°   | 3761.0 | 3504.8 | 3185.0 | 2784.2 | 2479.0 | 2084.9 | 1879.2 | 1502.2 | 1279.3 | 1084.2 | 895.7  |
| 77.5° | 1922.9 | 1730.5 | 1506.2 | 1280.7 | 1064.4 | 849.4  | 656.9  | 464.5  | 313.2  | 217.6  | 161.9  |
| 80°   | 1588.5 | 1418.7 | 1232.9 | 1027.2 | 836.1  | 648.9  | 467.2  | 318.5  | 203.0  | 132.7  | 103.5  |
| 82.5° | 1312.5 | 1169.2 | 1003.3 | 812.2  | 646.3  | 509.6  | 354.3  | 230.9  | 143.3  | 92.9   | 73.0   |
| 85°   | 558.7  | 507.0  | 391.5  | 310.5  | 233.5  | 172.5  | 120.8  | 80.9   | 57.1   | 46.5   | 42.4   |
| 87.5° | 23.9   | 26.5   | 25.2   | 19.9   | 14.6   | 14.6   | 13.3   | 10.6   | 10.6   | 10.6   | 10.6   |
| 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):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 95°   | 105°  | 115°  | 125°  | 135°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3  | 208.3 | 208.3 | 208.3 | 208.3 | 208.3 |
| 2.5°  | 217.6  | 216.3  | 215.0  | 215.0  | 213.7  | 212.4  | 204.4 | 197.8 | 189.8 | 184.5 | 179.1 |
| 5°    | 226.9  | 225.6  | 223.0  | 221.6  | 218.9  | 217.6  | 200.4 | 185.8 | 173.9 | 164.6 | 157.9 |
| 7.5°  | 236.3  | 234.9  | 230.9  | 226.9  | 225.6  | 223.0  | 195.0 | 176.5 | 160.6 | 150.0 | 143.3 |
| 10°   | 248.2  | 244.2  | 240.2  | 234.9  | 230.9  | 226.9  | 189.8 | 165.9 | 148.7 | 139.3 | 132.7 |
| 12.5° | 265.4  | 258.7  | 252.2  | 245.5  | 240.2  | 233.5  | 187.1 | 156.6 | 139.3 | 128.7 | 122.1 |
| 15°   | 285.3  | 276.1  | 268.1  | 260.1  | 250.8  | 244.2  | 181.8 | 148.7 | 131.3 | 120.8 | 112.8 |
| 17.5° | 303.9  | 293.3  | 281.3  | 269.4  | 260.1  | 250.8  | 176.5 | 140.7 | 123.4 | 112.8 | 104.8 |
| 20°   | 330.4  | 314.5  | 300.0  | 285.3  | 272.0  | 260.1  | 168.5 | 132.7 | 116.8 | 104.8 | 96.9  |
| 22.5° | 359.6  | 341.1  | 322.4  | 302.6  | 285.3  | 269.4  | 161.9 | 126.1 | 110.2 | 98.2  | 88.9  |
| 25°   | 396.8  | 374.2  | 349.0  | 323.8  | 303.9  | 282.6  | 155.2 | 119.4 | 103.5 | 91.5  | 82.3  |
| 27.5° | 448.5  | 416.7  | 388.9  | 357.0  | 326.5  | 302.6  | 150.0 | 114.1 | 96.9  | 85.0  | 75.6  |
| 30°   | 518.9  | 472.4  | 428.7  | 394.1  | 358.3  | 323.8  | 144.6 | 107.5 | 91.5  | 78.3  | 67.6  |
| 32.5° | 597.2  | 542.8  | 492.4  | 440.6  | 395.5  | 355.7  | 139.3 | 102.2 | 85.0  | 71.7  | 62.4  |
| 35°   | 694.1  | 625.0  | 557.4  | 497.6  | 443.3  | 390.2  | 134.1 | 96.9  | 79.6  | 65.0  | 55.7  |
| 37.5° | 833.4  | 747.2  | 658.3  | 581.3  | 510.9  | 440.6  | 130.0 | 91.5  | 73.0  | 58.4  | 49.1  |
| 40°   | 1024.5 | 913.1  | 804.2  | 699.4  | 607.8  | 520.2  | 124.8 | 86.3  | 67.6  | 53.1  | 43.8  |
| 42.5° | 1231.6 | 1096.2 | 952.9  | 834.8  | 708.7  | 598.5  | 119.4 | 80.9  | 62.4  | 47.8  | 38.5  |
| 45°   | 1489.0 | 1320.5 | 1146.6 | 986.0  | 832.0  | 690.1  | 114.1 | 75.6  | 55.7  | 42.4  | 33.2  |
| 47.5° | 1770.3 | 1555.3 | 1358.9 | 1157.2 | 974.1  | 804.2  | 107.5 | 71.7  | 50.4  | 37.2  | 29.2  |
| 50°   | 2059.6 | 1832.7 | 1584.6 | 1355.0 | 1137.3 | 918.3  | 100.9 | 65.0  | 45.1  | 33.2  | 23.9  |
| 52.5° | 2371.5 | 2103.4 | 1849.9 | 1564.6 | 1311.2 | 1068.3 | 94.2  | 59.7  | 41.1  | 29.2  | 19.9  |
| 55°   | 2768.3 | 2468.4 | 2171.1 | 1851.3 | 1546.1 | 1242.2 | 87.6  | 53.1  | 35.8  | 25.2  | 15.9  |
| 57.5° | 3267.3 | 2911.6 | 2546.7 | 2185.7 | 1815.5 | 1470.4 | 82.3  | 46.5  | 30.5  | 21.3  | 13.3  |
| 60°   | 3738.4 | 3323.0 | 2881.1 | 2465.7 | 2047.7 | 1645.5 | 74.3  | 41.1  | 26.5  | 17.2  | 13.3  |
| 62.5° | 3982.6 | 3508.8 | 3032.3 | 2574.5 | 2128.6 | 1707.9 | 66.3  | 34.5  | 22.6  | 14.6  | 11.9  |
| 65°   | 3922.8 | 3439.8 | 2978.0 | 2516.2 | 2079.5 | 1668.1 | 58.4  | 30.5  | 19.9  | 13.3  | 11.9  |
| 66°   | 3836.6 | 3358.8 | 2894.4 | 2455.1 | 2038.4 | 1625.7 | 54.4  | 29.2  | 18.6  | 13.3  | 10.6  |
| 67.5° | 3648.2 | 3186.3 | 2743.1 | 2334.3 | 1925.6 | 1544.7 | 49.1  | 26.5  | 17.2  | 11.9  | 10.6  |
| 70°   | 3116.0 | 2696.6 | 2342.3 | 1978.7 | 1645.5 | 1301.8 | 39.8  | 22.6  | 14.6  | 10.6  | 10.6  |
| 72.5° | 2062.3 | 1777.0 | 1540.7 | 1325.7 | 1108.1 | 860.0  | 33.2  | 18.6  | 11.9  | 10.6  | 9.3   |
| 75°   | 777.7  | 703.3  | 603.8  | 542.8  | 473.7  | 415.4  | 26.5  | 11.9  | 9.3   | 9.3   | 9.3   |
| 77.5° | 138.0  | 127.4  | 112.8  | 103.5  | 95.6   | 87.6   | 21.3  | 8.0   | 8.0   | 9.3   | 9.3   |
| 80°   | 92.9   | 86.3   | 78.3   | 71.7   | 66.3   | 59.7   | 14.6  | 6.6   | 8.0   | 8.0   | 9.3   |
| 82.5° | 66.3   | 62.4   | 58.4   | 53.1   | 49.1   | 43.8   | 9.3   | 6.6   | 8.0   | 8.0   | 8.0   |
| 85°   | 39.8   | 37.2   | 34.5   | 31.9   | 27.8   | 26.5   | 6.6   | 6.6   | 6.6   | 8.0   | 8.0   |
| 87.5° | 10.6   | 9.3    | 10.6   | 10.6   | 8.0    | 9.3    | 5.3   | 5.3   | 5.3   | 6.6   | 6.6   |
| 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):**

|       | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 208.3 | 208.3 | 208.3 | 208.3 | 208.3 |
| 2.5°  | 176.5 | 176.5 | 173.9 | 177.8 | 177.8 |
| 5°    | 152.6 | 152.6 | 151.3 | 152.6 | 152.6 |
| 7.5°  | 139.3 | 138.0 | 138.0 | 138.0 | 139.3 |
| 10°   | 127.4 | 126.1 | 126.1 | 126.1 | 126.1 |
| 12.5° | 116.8 | 115.4 | 114.1 | 115.4 | 115.4 |
| 15°   | 107.5 | 104.8 | 104.8 | 104.8 | 104.8 |
| 17.5° | 99.5  | 96.9  | 95.6  | 95.6  | 95.6  |
| 20°   | 91.5  | 87.6  | 87.6  | 87.6  | 87.6  |
| 22.5° | 83.6  | 79.6  | 79.6  | 79.6  | 79.6  |
| 25°   | 75.6  | 71.7  | 71.7  | 71.7  | 71.7  |
| 27.5° | 69.0  | 65.0  | 65.0  | 65.0  | 65.0  |
| 30°   | 61.1  | 58.4  | 58.4  | 59.7  | 58.4  |
| 32.5° | 55.7  | 51.7  | 51.7  | 53.1  | 53.1  |
| 35°   | 49.1  | 46.5  | 46.5  | 46.5  | 46.5  |
| 37.5° | 42.4  | 39.8  | 39.8  | 39.8  | 39.8  |
| 40°   | 37.2  | 34.5  | 33.2  | 34.5  | 34.5  |
| 42.5° | 31.9  | 29.2  | 27.8  | 27.8  | 27.8  |
| 45°   | 27.8  | 23.9  | 22.6  | 23.9  | 23.9  |
| 47.5° | 22.6  | 19.9  | 19.9  | 21.3  | 21.3  |
| 50°   | 17.2  | 17.2  | 18.6  | 21.3  | 21.3  |
| 52.5° | 15.9  | 15.9  | 18.6  | 21.3  | 21.3  |
| 55°   | 14.6  | 15.9  | 18.6  | 19.9  | 21.3  |
| 57.5° | 13.3  | 15.9  | 18.6  | 19.9  | 19.9  |
| 60°   | 13.3  | 14.6  | 17.2  | 19.9  | 19.9  |
| 62.5° | 11.9  | 13.3  | 15.9  | 18.6  | 18.6  |
| 65°   | 11.9  | 13.3  | 15.9  | 18.6  | 18.6  |
| 66°   | 11.9  | 13.3  | 15.9  | 18.6  | 18.6  |
| 67.5° | 11.9  | 13.3  | 15.9  | 18.6  | 18.6  |
| 70°   | 11.9  | 13.3  | 15.9  | 17.2  | 17.2  |
| 72.5° | 10.6  | 11.9  | 14.6  | 17.2  | 17.2  |
| 75°   | 10.6  | 11.9  | 14.6  | 17.2  | 17.2  |
| 77.5° | 10.6  | 11.9  | 14.6  | 17.2  | 17.2  |
| 80°   | 10.6  | 11.9  | 14.6  | 15.9  | 17.2  |
| 82.5° | 9.3   | 11.9  | 13.3  | 15.9  | 15.9  |
| 85°   | 9.3   | 10.6  | 13.3  | 14.6  | 15.9  |
| 87.5° | 8.0   | 9.3   | 10.6  | 13.3  | 13.3  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)