

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: P163580

Luminaire Tested: **LDRC-SL3-F02-E-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163580  
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-F02-E-8030-HSS  
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2343.5 lumens  
Efficiency: N/A  
Efficacy: 42.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

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

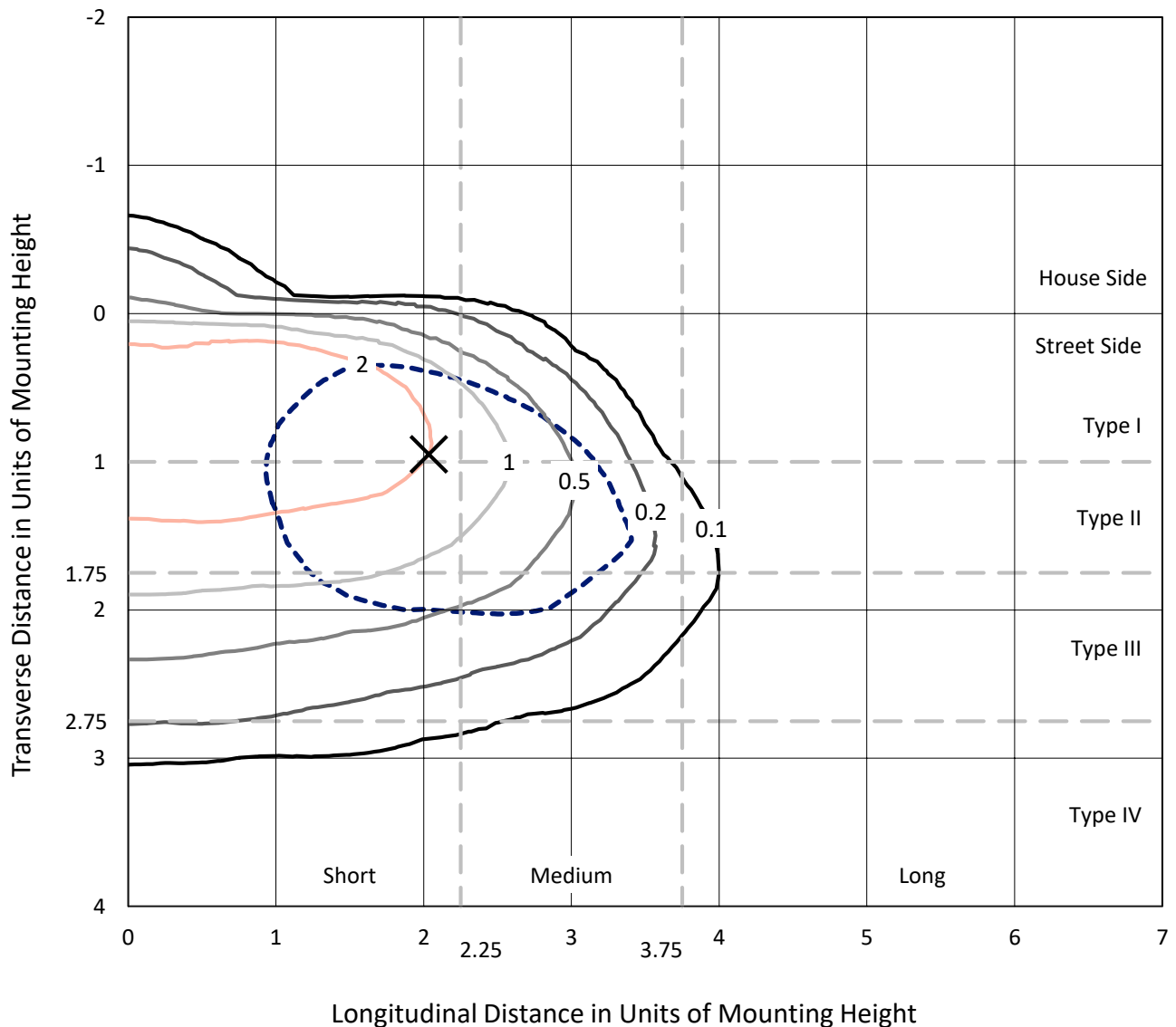


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

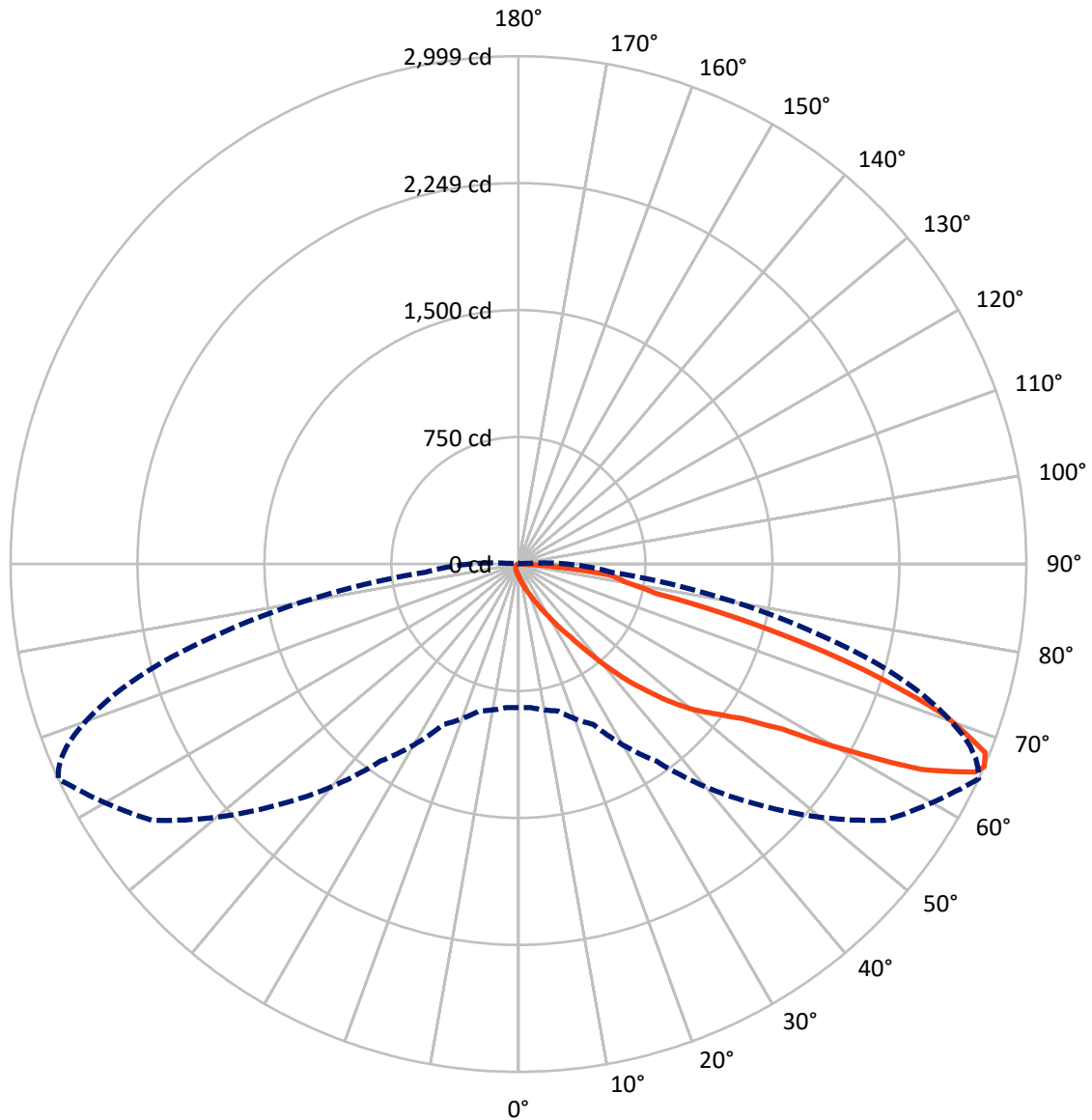


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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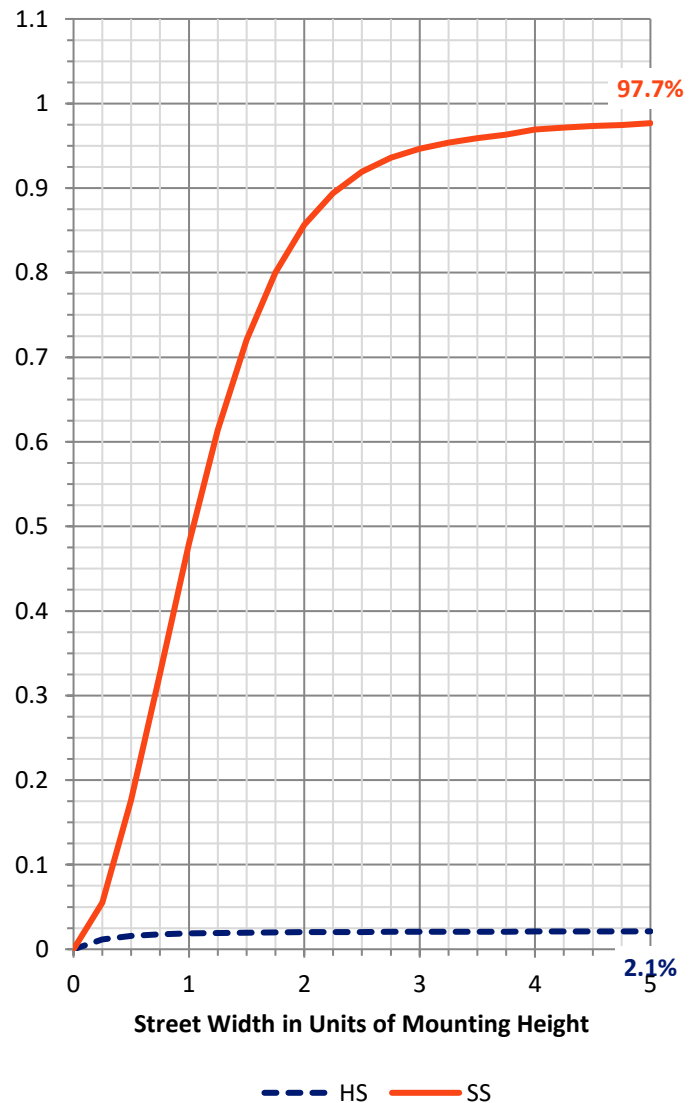
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 50.8     | 0.0    | 50.8   |
|                    | % Fixture | 2.2      | 0.0    | 2.2    |
| <b>Street Side</b> | Lumens    | 2292.7   | 0.0    | 2292.7 |
|                    | % Fixture | 97.8     | 0.0    | 97.8   |
| <b>Total</b>       | Lumens    | 2343.5   | 0.0    | 2343.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.9    | 0.3       |
| 10°-20°   | 33.6   | 1.4       |
| 20°-30°   | 72.4   | 3.1       |
| 30°-40°   | 154.7  | 6.6       |
| 40°-50°   | 342.0  | 14.6      |
| 50°-60°   | 579.6  | 24.7      |
| 60°-70°   | 773.4  | 33.0      |
| 70°-80°   | 340.7  | 14.5      |
| 80°-90°   | 39.2   | 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°    | 2343.5 | 100.0     |
| 0°-180°   | 2343.5 | 100.0     |



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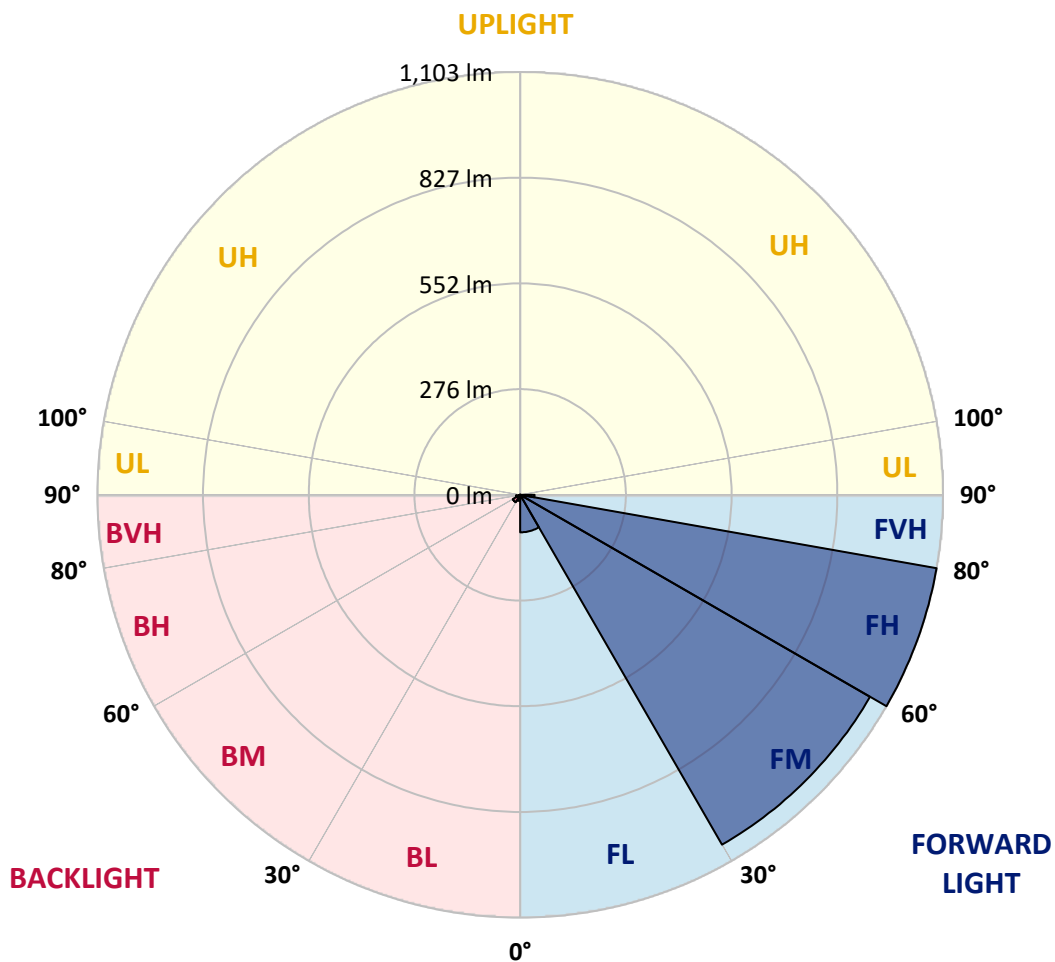
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 97.9   | 4.2       |                         |      |         |
| FM   | (30°-60°)   | 1054.0 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 1103.2 | 47.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 37.7   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 16.0   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 22.3   | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 10.9   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.6    | 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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   |
| 2.5°  | 89.2   | 88.8   | 87.0   | 87.0   | 84.2   | 82.4   | 80.2   | 78.0   | 78.0   | 77.5   | 77.0   |
| 5°    | 118.1  | 115.4  | 114.9  | 109.9  | 105.9  | 100.0  | 94.6   | 87.4   | 86.5   | 85.6   | 85.1   |
| 7.5°  | 150.0  | 149.6  | 145.5  | 139.7  | 131.6  | 120.8  | 109.9  | 98.2   | 96.4   | 95.5   | 93.7   |
| 10°   | 191.5  | 189.2  | 183.8  | 173.9  | 161.8  | 147.3  | 129.8  | 111.3  | 109.0  | 107.2  | 106.3  |
| 12.5° | 231.1  | 227.1  | 223.9  | 211.3  | 196.0  | 174.8  | 153.6  | 127.1  | 125.2  | 123.0  | 119.4  |
| 15°   | 268.1  | 264.5  | 259.1  | 248.3  | 231.1  | 204.6  | 179.8  | 147.3  | 142.8  | 139.7  | 137.0  |
| 17.5° | 296.9  | 294.7  | 288.4  | 276.2  | 257.7  | 234.3  | 204.6  | 168.1  | 164.5  | 160.4  | 155.4  |
| 20°   | 324.4  | 321.3  | 311.3  | 294.7  | 274.8  | 256.8  | 233.8  | 195.1  | 190.1  | 185.2  | 179.8  |
| 22.5° | 350.5  | 347.4  | 331.1  | 303.7  | 282.5  | 274.8  | 266.7  | 225.7  | 218.1  | 214.0  | 208.6  |
| 25°   | 387.0  | 380.3  | 355.0  | 311.3  | 283.0  | 288.8  | 302.8  | 265.4  | 258.2  | 252.3  | 243.7  |
| 27.5° | 436.1  | 427.1  | 387.5  | 322.6  | 284.7  | 304.1  | 344.2  | 313.6  | 305.9  | 299.2  | 289.7  |
| 30°   | 491.6  | 485.7  | 438.4  | 349.6  | 297.8  | 326.7  | 390.6  | 374.9  | 365.8  | 357.7  | 346.5  |
| 32.5° | 547.4  | 539.3  | 492.5  | 401.0  | 333.0  | 370.4  | 448.8  | 446.1  | 434.3  | 426.7  | 414.5  |
| 35°   | 596.5  | 592.5  | 557.8  | 485.2  | 413.2  | 446.9  | 526.2  | 529.4  | 519.0  | 510.9  | 497.4  |
| 37.5° | 629.9  | 629.9  | 623.1  | 575.8  | 540.7  | 565.9  | 640.2  | 640.7  | 630.3  | 611.8  | 605.1  |
| 40°   | 647.0  | 651.9  | 676.3  | 685.3  | 683.5  | 715.9  | 789.8  | 781.7  | 773.2  | 763.7  | 741.2  |
| 42.5° | 682.1  | 686.6  | 738.5  | 800.6  | 841.2  | 884.0  | 934.9  | 932.2  | 921.8  | 904.7  | 884.0  |
| 45°   | 741.6  | 747.5  | 809.2  | 907.8  | 991.2  | 1052.0 | 1084.5 | 1071.9 | 1061.5 | 1045.3 | 1034.5 |
| 47.5° | 817.3  | 828.6  | 898.4  | 1020.5 | 1121.0 | 1221.4 | 1255.2 | 1221.9 | 1212.9 | 1200.3 | 1182.7 |
| 50°   | 898.0  | 908.8  | 983.1  | 1122.8 | 1236.3 | 1356.2 | 1412.5 | 1356.2 | 1343.1 | 1339.0 | 1319.2 |
| 52.5° | 967.8  | 976.8  | 1048.4 | 1201.6 | 1324.6 | 1465.2 | 1547.2 | 1472.8 | 1463.4 | 1449.9 | 1435.4 |
| 55°   | 1009.2 | 1016.5 | 1083.6 | 1239.5 | 1384.6 | 1563.4 | 1677.4 | 1612.1 | 1598.1 | 1592.7 | 1572.0 |
| 57.5° | 1023.2 | 1030.4 | 1090.8 | 1244.4 | 1417.0 | 1653.1 | 1835.5 | 1837.8 | 1821.1 | 1801.8 | 1795.5 |
| 60°   | 1023.2 | 1031.3 | 1082.2 | 1232.2 | 1448.5 | 1748.6 | 2046.4 | 2234.3 | 2198.2 | 2194.6 | 2171.7 |
| 62.5° | 980.8  | 988.5  | 1039.9 | 1194.9 | 1490.9 | 1877.5 | 2340.2 | 2671.8 | 2661.4 | 2638.0 | 2600.1 |
| 65°   | 889.0  | 893.4  | 943.9  | 1099.3 | 1474.7 | 1996.0 | 2594.7 | 2962.8 | 2946.2 | 2900.2 | 2851.5 |
| 66°   | 847.5  | 851.1  | 898.4  | 1044.8 | 1421.5 | 2012.2 | 2639.8 | 2999.3 | 2971.8 | 2933.1 | 2878.1 |
| 67.5° | 787.6  | 793.9  | 827.2  | 943.5  | 1294.0 | 1955.8 | 2611.4 | 2973.6 | 2949.8 | 2902.9 | 2847.9 |
| 70°   | 525.8  | 521.3  | 638.9  | 724.0  | 985.8  | 1593.6 | 2342.9 | 2670.0 | 2670.4 | 2648.3 | 2626.3 |
| 72.5° | 249.6  | 252.3  | 286.6  | 445.6  | 645.2  | 1064.6 | 1864.8 | 2131.1 | 2161.7 | 2122.1 | 2094.6 |
| 75°   | 179.3  | 183.4  | 204.1  | 272.6  | 384.8  | 638.9  | 1208.8 | 1490.4 | 1491.3 | 1421.0 | 1358.4 |
| 77.5° | 52.3   | 54.5   | 76.6   | 168.1  | 288.4  | 431.2  | 694.3  | 828.6  | 809.2  | 758.7  | 711.4  |
| 80°   | 21.6   | 21.6   | 22.5   | 53.6   | 115.8  | 292.9  | 485.7  | 638.0  | 635.7  | 616.4  | 588.4  |
| 82.5° | 8.1    | 8.6    | 10.8   | 22.1   | 27.5   | 72.1   | 324.0  | 553.7  | 552.4  | 524.9  | 505.1  |
| 85°   | 0.9    | 0.9    | 2.7    | 9.4    | 10.4   | 13.5   | 64.9   | 244.2  | 242.9  | 244.2  | 214.0  |
| 87.5° | 0.0    | 0.0    | 0.4    | 0.9    | 1.3    | 1.8    | 2.7    | 9.4    | 10.4   | 9.9    | 9.0    |
| 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):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   | 70.7   |
| 2.5°  | 77.0   | 76.1   | 76.1   | 75.7   | 75.7   | 75.7   | 75.2   | 74.8   | 74.8   | 74.3   | 73.9   |
| 5°    | 84.2   | 83.4   | 82.9   | 82.0   | 81.5   | 81.1   | 80.2   | 79.7   | 78.8   | 78.4   | 78.0   |
| 7.5°  | 92.8   | 91.0   | 90.5   | 89.2   | 87.8   | 87.0   | 86.1   | 84.7   | 83.8   | 82.0   | 81.5   |
| 10°   | 103.6  | 101.4  | 99.6   | 97.8   | 96.4   | 94.2   | 92.8   | 91.0   | 89.2   | 87.8   | 86.5   |
| 12.5° | 117.6  | 114.4  | 111.7  | 109.9  | 106.8  | 104.1  | 101.4  | 100.0  | 96.4   | 94.6   | 92.4   |
| 15°   | 132.9  | 129.3  | 126.2  | 122.5  | 120.3  | 115.8  | 112.2  | 108.1  | 106.3  | 103.2  | 99.6   |
| 17.5° | 152.7  | 146.9  | 141.9  | 138.3  | 133.8  | 129.3  | 125.2  | 121.2  | 115.8  | 112.2  | 107.7  |
| 20°   | 173.9  | 168.9  | 162.2  | 155.9  | 150.5  | 145.1  | 139.2  | 133.8  | 128.9  | 123.0  | 117.6  |
| 22.5° | 200.9  | 193.7  | 185.6  | 179.3  | 172.1  | 166.2  | 158.1  | 150.9  | 142.8  | 135.2  | 128.9  |
| 25°   | 235.2  | 225.7  | 218.1  | 209.0  | 200.5  | 191.5  | 181.6  | 172.6  | 162.2  | 155.0  | 144.2  |
| 27.5° | 277.6  | 268.5  | 258.2  | 246.4  | 237.9  | 224.4  | 211.3  | 200.0  | 187.9  | 176.6  | 164.5  |
| 30°   | 331.6  | 318.5  | 307.7  | 296.5  | 279.3  | 266.3  | 251.0  | 235.6  | 219.0  | 207.7  | 189.2  |
| 32.5° | 396.5  | 382.5  | 366.3  | 350.1  | 334.3  | 315.8  | 296.9  | 278.0  | 259.5  | 238.8  | 219.9  |
| 35°   | 475.8  | 459.1  | 440.6  | 423.1  | 398.7  | 378.9  | 355.0  | 328.9  | 308.2  | 284.3  | 260.4  |
| 37.5° | 580.8  | 553.3  | 537.0  | 518.6  | 485.7  | 458.6  | 432.1  | 405.9  | 369.5  | 344.2  | 310.4  |
| 40°   | 712.3  | 696.1  | 669.5  | 639.8  | 610.0  | 574.4  | 538.4  | 503.7  | 461.4  | 426.2  | 387.0  |
| 42.5° | 866.9  | 843.0  | 816.0  | 773.2  | 743.0  | 701.1  | 660.1  | 614.1  | 562.3  | 517.2  | 471.3  |
| 45°   | 1011.9 | 983.5  | 962.8  | 920.0  | 888.5  | 838.9  | 789.4  | 740.7  | 680.8  | 622.7  | 569.5  |
| 47.5° | 1168.7 | 1145.3 | 1111.1 | 1076.4 | 1044.4 | 988.5  | 934.9  | 875.9  | 812.8  | 743.9  | 674.9  |
| 50°   | 1306.6 | 1288.1 | 1264.7 | 1222.8 | 1187.2 | 1140.3 | 1077.3 | 1012.8 | 933.1  | 864.6  | 786.2  |
| 52.5° | 1423.7 | 1409.3 | 1376.4 | 1346.7 | 1314.7 | 1270.6 | 1214.2 | 1152.5 | 1066.5 | 991.2  | 902.0  |
| 55°   | 1562.1 | 1551.7 | 1522.9 | 1504.4 | 1476.0 | 1433.7 | 1380.9 | 1323.7 | 1232.7 | 1150.7 | 1049.8 |
| 57.5° | 1788.7 | 1780.6 | 1755.4 | 1747.7 | 1719.8 | 1682.8 | 1617.9 | 1556.6 | 1450.3 | 1348.5 | 1233.2 |
| 60°   | 2164.0 | 2147.8 | 2110.8 | 2091.9 | 2032.9 | 1983.3 | 1899.1 | 1814.8 | 1686.4 | 1556.6 | 1417.9 |
| 62.5° | 2565.9 | 2520.4 | 2450.1 | 2389.7 | 2305.9 | 2219.9 | 2107.2 | 1978.4 | 1827.9 | 1673.8 | 1514.3 |
| 65°   | 2782.6 | 2705.1 | 2616.4 | 2520.4 | 2411.8 | 2285.2 | 2143.3 | 1988.7 | 1827.0 | 1664.3 | 1495.8 |
| 66°   | 2807.4 | 2720.0 | 2625.8 | 2519.0 | 2398.3 | 2263.6 | 2119.4 | 1957.2 | 1789.1 | 1630.6 | 1462.0 |
| 67.5° | 2776.3 | 2684.8 | 2585.3 | 2466.8 | 2336.1 | 2196.4 | 2045.1 | 1876.5 | 1714.8 | 1553.9 | 1390.0 |
| 70°   | 2558.7 | 2467.7 | 2378.9 | 2254.1 | 2114.9 | 1974.3 | 1831.0 | 1642.7 | 1489.5 | 1341.7 | 1195.8 |
| 72.5° | 2043.2 | 1981.5 | 1893.7 | 1786.9 | 1651.3 | 1486.4 | 1367.0 | 1198.5 | 1065.6 | 922.3  | 809.2  |
| 75°   | 1276.9 | 1189.9 | 1081.3 | 945.2  | 841.6  | 707.8  | 638.0  | 510.0  | 434.3  | 368.1  | 304.1  |
| 77.5° | 652.8  | 587.5  | 511.4  | 434.8  | 361.4  | 288.4  | 223.0  | 157.7  | 106.3  | 73.9   | 55.0   |
| 80°   | 539.3  | 481.6  | 418.6  | 348.7  | 283.9  | 220.3  | 158.6  | 108.1  | 68.9   | 45.1   | 35.1   |
| 82.5° | 445.6  | 396.9  | 340.6  | 275.7  | 219.4  | 173.0  | 120.3  | 78.4   | 48.7   | 31.5   | 24.8   |
| 85°   | 189.7  | 172.1  | 132.9  | 105.4  | 79.3   | 58.6   | 41.0   | 27.5   | 19.4   | 15.8   | 14.4   |
| 87.5° | 8.1    | 9.0    | 8.6    | 6.7    | 5.0    | 5.0    | 4.5    | 3.6    | 3.6    | 3.6    | 3.6    |
| 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°    | 70.7   | 70.7   | 70.7   | 70.7  | 70.7  | 70.7  | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 |
| 2.5°  | 73.9   | 73.4   | 73.0   | 73.0  | 72.5  | 72.1  | 69.4 | 67.1 | 64.4 | 62.6 | 60.8 |
| 5°    | 77.0   | 76.6   | 75.7   | 75.2  | 74.3  | 73.9  | 68.0 | 63.1 | 59.0 | 55.9 | 53.6 |
| 7.5°  | 80.2   | 79.7   | 78.4   | 77.0  | 76.6  | 75.7  | 66.2 | 59.9 | 54.5 | 50.9 | 48.7 |
| 10°   | 84.2   | 82.9   | 81.5   | 79.7  | 78.4  | 77.0  | 64.4 | 56.3 | 50.5 | 47.3 | 45.1 |
| 12.5° | 90.1   | 87.8   | 85.6   | 83.4  | 81.5  | 79.3  | 63.5 | 53.2 | 47.3 | 43.7 | 41.4 |
| 15°   | 96.9   | 93.7   | 91.0   | 88.3  | 85.1  | 82.9  | 61.7 | 50.5 | 44.6 | 41.0 | 38.3 |
| 17.5° | 103.2  | 99.6   | 95.5   | 91.5  | 88.3  | 85.1  | 59.9 | 47.8 | 41.9 | 38.3 | 35.6 |
| 20°   | 112.2  | 106.8  | 101.8  | 96.9  | 92.4  | 88.3  | 57.2 | 45.1 | 39.7 | 35.6 | 32.9 |
| 22.5° | 122.1  | 115.8  | 109.5  | 102.7 | 96.9  | 91.5  | 55.0 | 42.8 | 37.4 | 33.3 | 30.2 |
| 25°   | 134.7  | 127.1  | 118.5  | 109.9 | 103.2 | 96.0  | 52.7 | 40.6 | 35.1 | 31.1 | 27.9 |
| 27.5° | 152.3  | 141.5  | 132.0  | 121.2 | 110.8 | 102.7 | 50.9 | 38.7 | 32.9 | 28.8 | 25.7 |
| 30°   | 176.2  | 160.4  | 145.5  | 133.8 | 121.7 | 109.9 | 49.1 | 36.5 | 31.1 | 26.6 | 23.0 |
| 32.5° | 202.8  | 184.3  | 167.2  | 149.6 | 134.3 | 120.8 | 47.3 | 34.7 | 28.8 | 24.3 | 21.2 |
| 35°   | 235.6  | 212.2  | 189.2  | 168.9 | 150.5 | 132.5 | 45.5 | 32.9 | 27.0 | 22.1 | 18.9 |
| 37.5° | 283.0  | 253.7  | 223.5  | 197.3 | 173.5 | 149.6 | 44.1 | 31.1 | 24.8 | 19.8 | 16.7 |
| 40°   | 347.8  | 310.0  | 273.0  | 237.4 | 206.3 | 176.6 | 42.4 | 29.3 | 23.0 | 18.0 | 14.9 |
| 42.5° | 418.1  | 372.2  | 323.5  | 283.4 | 240.6 | 203.2 | 40.6 | 27.5 | 21.2 | 16.2 | 13.1 |
| 45°   | 505.5  | 448.3  | 389.3  | 334.8 | 282.5 | 234.3 | 38.7 | 25.7 | 18.9 | 14.4 | 11.3 |
| 47.5° | 601.0  | 528.0  | 461.4  | 392.9 | 330.7 | 273.0 | 36.5 | 24.3 | 17.1 | 12.6 | 9.9  |
| 50°   | 699.2  | 622.2  | 538.0  | 460.0 | 386.1 | 311.8 | 34.3 | 22.1 | 15.3 | 11.3 | 8.1  |
| 52.5° | 805.1  | 714.1  | 628.1  | 531.2 | 445.2 | 362.7 | 32.0 | 20.3 | 14.0 | 9.9  | 6.7  |
| 55°   | 939.8  | 838.0  | 737.1  | 628.5 | 524.9 | 421.7 | 29.7 | 18.0 | 12.2 | 8.6  | 5.4  |
| 57.5° | 1109.3 | 988.5  | 864.6  | 742.1 | 616.4 | 499.2 | 27.9 | 15.8 | 10.4 | 7.2  | 4.5  |
| 60°   | 1269.2 | 1128.2 | 978.1  | 837.1 | 695.2 | 558.7 | 25.2 | 14.0 | 9.0  | 5.9  | 4.5  |
| 62.5° | 1352.1 | 1191.3 | 1029.5 | 874.1 | 722.7 | 579.9 | 22.5 | 11.7 | 7.7  | 5.0  | 4.0  |
| 65°   | 1331.8 | 1167.8 | 1011.0 | 854.3 | 706.0 | 566.3 | 19.8 | 10.4 | 6.7  | 4.5  | 4.0  |
| 66°   | 1302.5 | 1140.3 | 982.6  | 833.5 | 692.1 | 551.9 | 18.5 | 9.9  | 6.3  | 4.5  | 3.6  |
| 67.5° | 1238.6 | 1081.8 | 931.3  | 792.5 | 653.8 | 524.4 | 16.7 | 9.0  | 5.9  | 4.0  | 3.6  |
| 70°   | 1057.9 | 915.5  | 795.2  | 671.8 | 558.7 | 442.0 | 13.5 | 7.7  | 5.0  | 3.6  | 3.6  |
| 72.5° | 700.2  | 603.3  | 523.1  | 450.1 | 376.2 | 292.0 | 11.3 | 6.3  | 4.0  | 3.6  | 3.1  |
| 75°   | 264.0  | 238.8  | 205.0  | 184.3 | 160.8 | 141.0 | 9.0  | 4.0  | 3.1  | 3.1  | 3.1  |
| 77.5° | 46.8   | 43.3   | 38.3   | 35.1  | 32.4  | 29.7  | 7.2  | 2.7  | 2.7  | 3.1  | 3.1  |
| 80°   | 31.5   | 29.3   | 26.6   | 24.3  | 22.5  | 20.3  | 5.0  | 2.3  | 2.7  | 2.7  | 3.1  |
| 82.5° | 22.5   | 21.2   | 19.8   | 18.0  | 16.7  | 14.9  | 3.1  | 2.3  | 2.7  | 2.7  | 2.7  |
| 85°   | 13.5   | 12.6   | 11.7   | 10.8  | 9.4   | 9.0   | 2.3  | 2.3  | 2.3  | 2.7  | 2.7  |
| 87.5° | 3.6    | 3.1    | 3.6    | 3.6   | 2.7   | 3.1   | 1.8  | 1.8  | 1.8  | 2.3  | 2.3  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



REPORT NUMBER: P163580

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**CANDELA DISTRIBUTION (continued):**

|       | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|
| 0°    | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 |
| 2.5°  | 59.9 | 59.9 | 59.0 | 60.4 | 60.4 |
| 5°    | 51.8 | 51.8 | 51.4 | 51.8 | 51.8 |
| 7.5°  | 47.3 | 46.8 | 46.8 | 46.8 | 47.3 |
| 10°   | 43.3 | 42.8 | 42.8 | 42.8 | 42.8 |
| 12.5° | 39.7 | 39.2 | 38.7 | 39.2 | 39.2 |
| 15°   | 36.5 | 35.6 | 35.6 | 35.6 | 35.6 |
| 17.5° | 33.8 | 32.9 | 32.4 | 32.4 | 32.4 |
| 20°   | 31.1 | 29.7 | 29.7 | 29.7 | 29.7 |
| 22.5° | 28.4 | 27.0 | 27.0 | 27.0 | 27.0 |
| 25°   | 25.7 | 24.3 | 24.3 | 24.3 | 24.3 |
| 27.5° | 23.4 | 22.1 | 22.1 | 22.1 | 22.1 |
| 30°   | 20.7 | 19.8 | 19.8 | 20.3 | 19.8 |
| 32.5° | 18.9 | 17.6 | 17.6 | 18.0 | 18.0 |
| 35°   | 16.7 | 15.8 | 15.8 | 15.8 | 15.8 |
| 37.5° | 14.4 | 13.5 | 13.5 | 13.5 | 13.5 |
| 40°   | 12.6 | 11.7 | 11.3 | 11.7 | 11.7 |
| 42.5° | 10.8 | 9.9  | 9.4  | 9.4  | 9.4  |
| 45°   | 9.4  | 8.1  | 7.7  | 8.1  | 8.1  |
| 47.5° | 7.7  | 6.7  | 6.7  | 7.2  | 7.2  |
| 50°   | 5.9  | 5.9  | 6.3  | 7.2  | 7.2  |
| 52.5° | 5.4  | 5.4  | 6.3  | 7.2  | 7.2  |
| 55°   | 5.0  | 5.4  | 6.3  | 6.7  | 7.2  |
| 57.5° | 4.5  | 5.4  | 6.3  | 6.7  | 6.7  |
| 60°   | 4.5  | 5.0  | 5.9  | 6.7  | 6.7  |
| 62.5° | 4.0  | 4.5  | 5.4  | 6.3  | 6.3  |
| 65°   | 4.0  | 4.5  | 5.4  | 6.3  | 6.3  |
| 66°   | 4.0  | 4.5  | 5.4  | 6.3  | 6.3  |
| 67.5° | 4.0  | 4.5  | 5.4  | 6.3  | 6.3  |
| 70°   | 4.0  | 4.5  | 5.4  | 5.9  | 5.9  |
| 72.5° | 3.6  | 4.0  | 5.0  | 5.9  | 5.9  |
| 75°   | 3.6  | 4.0  | 5.0  | 5.9  | 5.9  |
| 77.5° | 3.6  | 4.0  | 5.0  | 5.9  | 5.9  |
| 80°   | 3.6  | 4.0  | 5.0  | 5.4  | 5.9  |
| 82.5° | 3.1  | 4.0  | 4.5  | 5.4  | 5.4  |
| 85°   | 3.1  | 3.6  | 4.5  | 5.0  | 5.4  |
| 87.5° | 2.7  | 3.1  | 3.6  | 4.5  | 4.5  |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)