

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: P145147

Luminaire Tested: **LDRL-SL3-F03-E-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145147  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRL-SL3-F03-E-7060  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (21) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7544.1 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

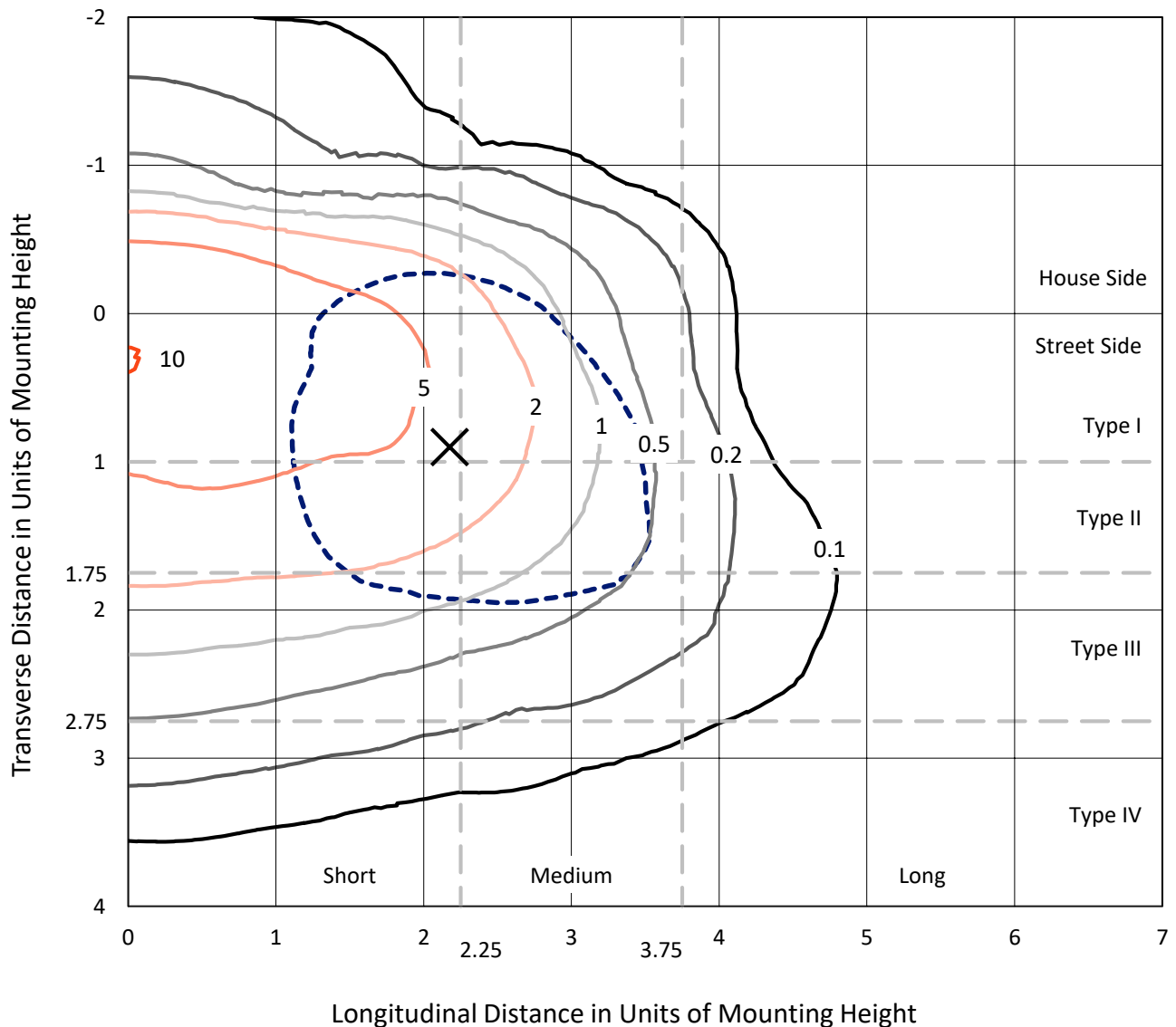
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

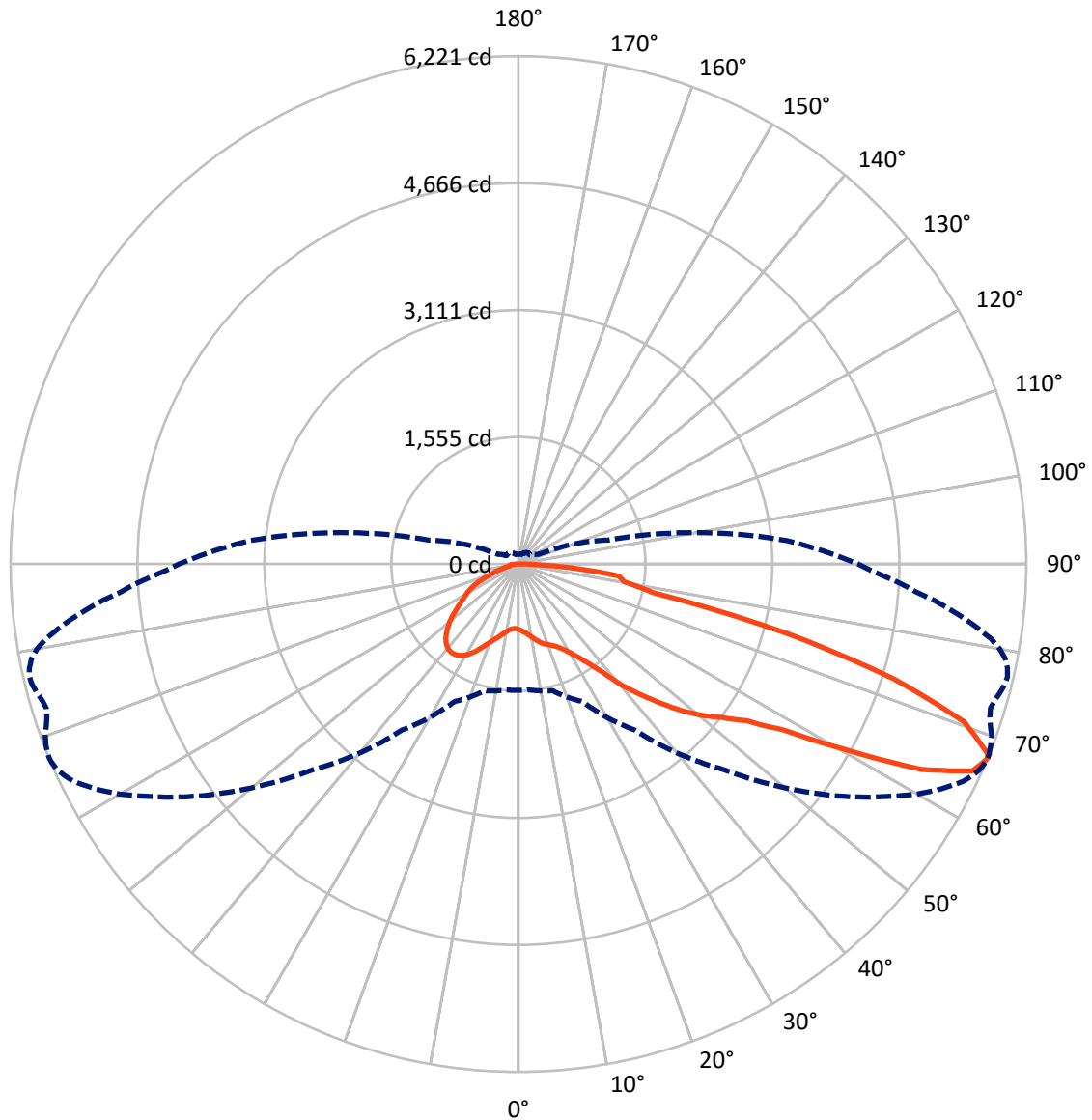
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1786.4   | 0.0    | 1786.4 |
|                    | % Fixture | 23.7     | 0.0    | 23.7   |
| <b>Street Side</b> | Lumens    | 5757.7   | 0.0    | 5757.7 |
|                    | % Fixture | 76.3     | 0.0    | 76.3   |
| <b>Total</b>       | Lumens    | 7544.1   | 0.0    | 7544.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.1   | 1.1       |
| 10°-20°   | 274.3  | 3.6       |
| 20°-30°   | 488.3  | 6.5       |
| 30°-40°   | 711.3  | 9.4       |
| 40°-50°   | 1095.9 | 14.5      |
| 50°-60°   | 1604.9 | 21.3      |
| 60°-70°   | 2131.2 | 28.3      |
| 70°-80°   | 1004.6 | 13.3      |
| 80°-90°   | 153.6  | 2.0       |
| 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°    | 7544.1 | 100.0     |
| 0°-180°   | 7544.1 | 100.0     |



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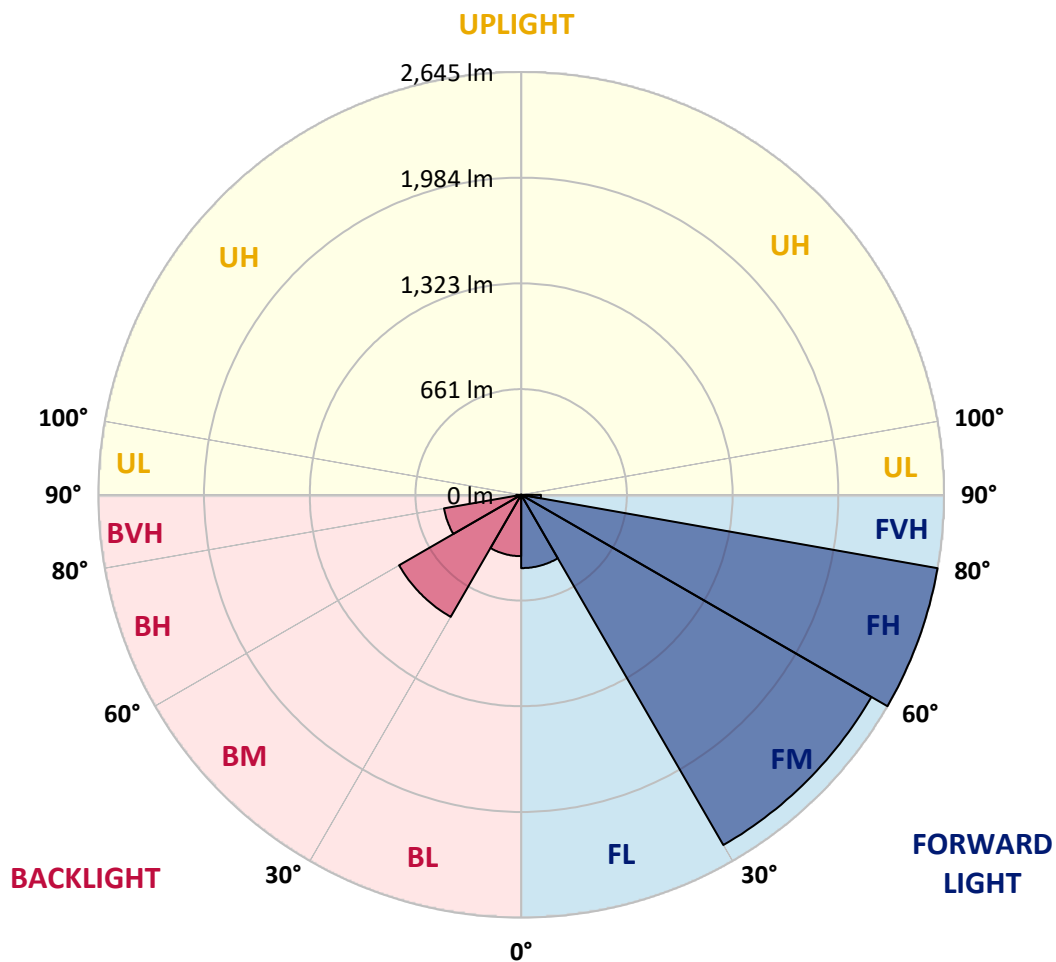
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 458.6  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 2529.9 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 2645.4 | 35.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 123.8  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 384.0  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 882.1  | 11.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 490.4  | 6.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.8   | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  |
| 2.5°  | 842.7  | 839.1  | 839.6  | 841.1  | 836.1  | 833.5  | 827.9  | 824.4  | 823.9  | 823.4  | 821.3  |
| 5°    | 892.0  | 888.4  | 889.9  | 885.9  | 876.2  | 869.6  | 857.9  | 851.8  | 850.8  | 849.8  | 847.2  |
| 7.5°  | 943.3  | 938.7  | 933.6  | 929.1  | 918.4  | 907.7  | 892.5  | 883.3  | 882.3  | 880.8  | 879.3  |
| 10°   | 1004.3 | 997.7  | 993.6  | 979.4  | 961.1  | 946.4  | 931.1  | 921.4  | 920.9  | 919.4  | 916.4  |
| 12.5° | 1072.9 | 1065.8 | 1058.2 | 1039.4 | 1010.9 | 989.0  | 971.3  | 965.7  | 961.1  | 961.6  | 958.6  |
| 15°   | 1141.0 | 1133.4 | 1123.2 | 1099.3 | 1061.7 | 1029.2 | 1006.3 | 998.2  | 998.7  | 996.2  | 997.7  |
| 17.5° | 1198.4 | 1191.8 | 1177.1 | 1146.6 | 1102.9 | 1058.2 | 1029.2 | 1025.6 | 1026.7 | 1026.1 | 1027.7 |
| 20°   | 1236.1 | 1232.0 | 1209.6 | 1173.0 | 1123.7 | 1074.4 | 1045.0 | 1045.0 | 1045.5 | 1047.5 | 1051.1 |
| 22.5° | 1258.9 | 1252.8 | 1223.3 | 1172.0 | 1123.2 | 1082.1 | 1059.2 | 1064.3 | 1067.3 | 1068.8 | 1074.4 |
| 25°   | 1271.6 | 1264.0 | 1223.9 | 1155.7 | 1105.9 | 1087.6 | 1080.5 | 1093.2 | 1098.3 | 1100.9 | 1110.0 |
| 27.5° | 1271.6 | 1262.5 | 1217.2 | 1135.4 | 1086.1 | 1104.4 | 1121.2 | 1143.0 | 1146.6 | 1154.2 | 1164.9 |
| 30°   | 1257.4 | 1250.3 | 1207.1 | 1120.2 | 1081.0 | 1135.9 | 1186.8 | 1211.7 | 1220.3 | 1228.9 | 1242.7 |
| 32.5° | 1242.2 | 1236.1 | 1202.0 | 1128.3 | 1109.5 | 1202.0 | 1286.9 | 1320.9 | 1326.0 | 1333.1 | 1347.4 |
| 35°   | 1241.1 | 1239.1 | 1224.4 | 1180.1 | 1195.4 | 1323.0 | 1437.8 | 1461.2 | 1475.4 | 1479.0 | 1485.1 |
| 37.5° | 1251.8 | 1255.9 | 1268.6 | 1264.0 | 1318.9 | 1502.9 | 1635.5 | 1682.3 | 1693.5 | 1687.4 | 1693.0 |
| 40°   | 1276.7 | 1286.9 | 1334.1 | 1392.6 | 1507.5 | 1720.4 | 1904.9 | 1958.8 | 1971.0 | 1967.4 | 1965.9 |
| 42.5° | 1355.5 | 1369.2 | 1438.8 | 1563.9 | 1703.6 | 1945.6 | 2155.0 | 2212.9 | 2217.0 | 2219.0 | 2205.8 |
| 45°   | 1479.0 | 1486.6 | 1579.1 | 1738.7 | 1916.1 | 2188.0 | 2404.5 | 2469.1 | 2466.5 | 2456.3 | 2446.7 |
| 47.5° | 1619.3 | 1635.0 | 1745.8 | 1939.0 | 2135.6 | 2412.1 | 2657.1 | 2720.1 | 2725.7 | 2716.6 | 2698.8 |
| 50°   | 1746.8 | 1759.0 | 1884.1 | 2113.3 | 2329.3 | 2598.7 | 2870.1 | 2933.6 | 2932.6 | 2937.7 | 2942.7 |
| 52.5° | 1847.5 | 1858.7 | 1977.6 | 2229.7 | 2471.6 | 2755.2 | 3030.7 | 3108.9 | 3121.1 | 3129.3 | 3139.4 |
| 55°   | 1899.3 | 1911.0 | 2020.8 | 2278.0 | 2558.0 | 2908.2 | 3216.2 | 3328.5 | 3349.3 | 3367.6 | 3384.4 |
| 57.5° | 1900.3 | 1915.6 | 2016.2 | 2274.4 | 2602.7 | 3044.9 | 3461.7 | 3663.4 | 3692.9 | 3739.7 | 3797.1 |
| 60°   | 1869.3 | 1890.7 | 1981.1 | 2241.4 | 2654.1 | 3218.2 | 3866.2 | 4252.5 | 4310.4 | 4392.3 | 4466.0 |
| 62.5° | 1788.5 | 1809.9 | 1890.7 | 2157.5 | 2714.0 | 3440.3 | 4450.7 | 5016.9 | 5140.4 | 5230.9 | 5376.7 |
| 65°   | 1660.9 | 1681.3 | 1749.4 | 2018.8 | 2666.3 | 3615.7 | 4886.3 | 5565.3 | 5691.3 | 5804.7 | 5975.9 |
| 67°   | 1547.1 | 1549.1 | 1606.6 | 1859.7 | 2480.2 | 3561.3 | 4973.7 | 5638.5 | 5754.9 | 5869.7 | 6068.4 |
| 67.5° | 1506.9 | 1518.1 | 1562.9 | 1806.8 | 2409.6 | 3521.1 | 4939.1 | 5598.8 | 5711.7 | 5834.1 | 6036.9 |
| 70°   | 1218.3 | 1221.3 | 1264.5 | 1441.4 | 1912.0 | 2919.4 | 4436.5 | 5093.1 | 5170.4 | 5349.8 | 5549.0 |
| 72.5° | 743.1  | 738.0  | 751.7  | 882.8  | 1258.4 | 2021.8 | 3552.1 | 4193.0 | 4298.7 | 4451.7 | 4586.4 |
| 75°   | 409.1  | 433.5  | 450.3  | 541.3  | 707.0  | 1188.8 | 2418.7 | 3033.7 | 3188.7 | 3279.7 | 3306.6 |
| 77.5° | 250.1  | 248.0  | 255.6  | 349.2  | 579.9  | 813.2  | 1336.2 | 1779.9 | 1866.3 | 1892.2 | 1792.1 |
| 80°   | 118.9  | 123.5  | 122.0  | 143.8  | 281.1  | 686.1  | 934.2  | 1143.0 | 1186.8 | 1211.7 | 1244.2 |
| 82.5° | 65.1   | 67.6   | 76.7   | 85.9   | 110.8  | 295.3  | 806.1  | 1054.1 | 1083.6 | 1126.3 | 1174.0 |
| 85°   | 40.7   | 42.7   | 59.0   | 62.0   | 68.1   | 91.0   | 336.0  | 616.0  | 640.9  | 725.8  | 752.7  |
| 87.5° | 16.8   | 18.3   | 32.0   | 29.0   | 34.6   | 32.0   | 101.6  | 156.5  | 166.2  | 176.9  | 196.2  |
| 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):**

|       | 65°    | 66°    | 67°    | 67.5°  | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  |
| 2.5°  | 821.8  | 821.3  | 819.3  | 818.8  | 819.8  | 819.8  | 818.8  | 817.3  | 816.8  | 816.2  | 815.2  |
| 5°    | 846.2  | 845.2  | 843.7  | 842.7  | 842.2  | 842.2  | 840.6  | 839.1  | 837.6  | 835.6  | 835.0  |
| 7.5°  | 875.2  | 875.2  | 874.7  | 873.2  | 871.6  | 869.6  | 868.1  | 866.6  | 865.0  | 864.0  | 862.5  |
| 10°   | 913.3  | 915.3  | 911.8  | 910.8  | 910.3  | 907.2  | 906.7  | 905.2  | 904.2  | 901.6  | 901.6  |
| 12.5° | 958.6  | 956.5  | 956.0  | 954.0  | 954.0  | 952.5  | 951.9  | 951.4  | 950.4  | 948.4  | 947.9  |
| 15°   | 996.2  | 996.2  | 995.7  | 994.6  | 995.7  | 994.6  | 993.1  | 994.1  | 992.6  | 993.1  | 991.6  |
| 17.5° | 1026.7 | 1028.7 | 1028.2 | 1028.7 | 1028.2 | 1028.2 | 1029.2 | 1029.2 | 1030.2 | 1028.2 | 1028.7 |
| 20°   | 1052.1 | 1055.1 | 1056.6 | 1055.6 | 1056.6 | 1057.2 | 1059.7 | 1060.7 | 1062.2 | 1063.2 | 1063.2 |
| 22.5° | 1078.5 | 1082.6 | 1085.6 | 1085.6 | 1087.6 | 1089.7 | 1094.3 | 1095.3 | 1098.8 | 1098.3 | 1100.9 |
| 25°   | 1115.6 | 1122.2 | 1124.2 | 1127.3 | 1129.8 | 1133.4 | 1139.0 | 1141.5 | 1143.0 | 1146.6 | 1150.7 |
| 27.5° | 1172.5 | 1180.7 | 1182.2 | 1185.7 | 1192.3 | 1194.4 | 1200.5 | 1203.0 | 1208.6 | 1216.2 | 1217.8 |
| 30°   | 1250.3 | 1260.4 | 1261.0 | 1265.0 | 1272.6 | 1275.2 | 1280.3 | 1286.9 | 1291.5 | 1299.1 | 1299.6 |
| 32.5° | 1356.0 | 1366.2 | 1364.6 | 1372.3 | 1371.8 | 1379.4 | 1377.9 | 1388.0 | 1392.1 | 1396.2 | 1407.3 |
| 35°   | 1496.8 | 1495.8 | 1503.4 | 1505.9 | 1504.4 | 1510.5 | 1509.5 | 1514.1 | 1518.1 | 1518.1 | 1530.3 |
| 37.5° | 1699.6 | 1698.0 | 1697.0 | 1686.4 | 1683.8 | 1684.3 | 1682.3 | 1686.4 | 1679.8 | 1679.8 | 1693.0 |
| 40°   | 1971.5 | 1962.3 | 1955.2 | 1948.1 | 1941.0 | 1931.3 | 1923.2 | 1921.2 | 1910.0 | 1909.5 | 1904.4 |
| 42.5° | 2207.8 | 2199.2 | 2194.1 | 2180.4 | 2173.3 | 2171.7 | 2151.9 | 2146.3 | 2143.3 | 2145.3 | 2140.2 |
| 45°   | 2455.8 | 2446.7 | 2427.4 | 2421.3 | 2419.2 | 2408.6 | 2405.5 | 2391.8 | 2387.7 | 2394.9 | 2392.3 |
| 47.5° | 2711.5 | 2698.3 | 2687.6 | 2680.5 | 2677.9 | 2668.8 | 2655.6 | 2666.8 | 2661.2 | 2657.1 | 2649.5 |
| 50°   | 2941.2 | 2926.5 | 2926.5 | 2913.8 | 2915.8 | 2909.7 | 2896.0 | 2899.0 | 2883.3 | 2889.4 | 2885.3 |
| 52.5° | 3133.8 | 3134.9 | 3139.9 | 3125.7 | 3128.3 | 3128.3 | 3123.7 | 3108.9 | 3113.0 | 3111.0 | 3120.6 |
| 55°   | 3378.8 | 3395.6 | 3386.4 | 3389.0 | 3392.0 | 3406.3 | 3416.4 | 3407.8 | 3393.6 | 3404.7 | 3435.7 |
| 57.5° | 3807.3 | 3822.5 | 3831.7 | 3838.8 | 3850.5 | 3857.1 | 3912.0 | 3919.6 | 3903.3 | 3936.9 | 4006.0 |
| 60°   | 4552.4 | 4570.7 | 4598.1 | 4634.2 | 4641.8 | 4688.1 | 4716.5 | 4750.1 | 4762.3 | 4791.2 | 4865.4 |
| 62.5° | 5448.4 | 5489.6 | 5494.6 | 5540.4 | 5576.0 | 5532.8 | 5543.9 | 5585.1 | 5538.3 | 5602.4 | 5605.4 |
| 65°   | 6034.9 | 6094.9 | 6096.9 | 6113.7 | 6126.9 | 6086.2 | 6067.9 | 6049.6 | 6005.4 | 6002.9 | 6047.1 |
| 67°   | 6135.5 | 6190.4 | 6213.3 | 6221.4 | 6219.4 | 6198.6 | 6168.6 | 6115.7 | 6073.0 | 6048.6 | 6066.9 |
| 67.5° | 6107.1 | 6161.0 | 6193.0 | 6200.6 | 6201.1 | 6180.8 | 6153.3 | 6095.9 | 6055.7 | 6028.3 | 6047.6 |
| 70°   | 5639.5 | 5765.5 | 5820.4 | 5792.0 | 5808.2 | 5808.2 | 5807.2 | 5754.4 | 5734.5 | 5708.1 | 5697.9 |
| 72.5° | 4689.1 | 4776.5 | 4846.1 | 4809.0 | 4813.6 | 4848.2 | 4840.0 | 4845.6 | 4788.7 | 4782.6 | 4688.6 |
| 75°   | 3359.0 | 3386.9 | 3363.6 | 3390.0 | 3247.7 | 3196.9 | 3110.5 | 2984.4 | 2951.4 | 2899.0 | 2742.5 |
| 77.5° | 1784.4 | 1752.9 | 1690.4 | 1685.3 | 1626.9 | 1581.7 | 1525.8 | 1489.2 | 1396.7 | 1345.3 | 1227.9 |
| 80°   | 1260.4 | 1275.7 | 1299.6 | 1313.8 | 1327.0 | 1337.2 | 1316.4 | 1257.9 | 1180.7 | 1094.3 | 1012.4 |
| 82.5° | 1204.0 | 1224.9 | 1239.1 | 1246.2 | 1241.1 | 1224.9 | 1177.1 | 1121.2 | 1018.0 | 943.3  | 854.9  |
| 85°   | 759.3  | 776.1  | 747.1  | 741.0  | 753.7  | 651.1  | 594.6  | 548.9  | 444.7  | 413.7  | 365.4  |
| 87.5° | 203.8  | 215.0  | 215.5  | 208.9  | 204.8  | 180.4  | 159.6  | 141.3  | 116.9  | 109.8  | 88.9   |
| 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):**

|       | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  |
| 2.5°  | 815.2  | 814.7  | 814.7  | 813.2  | 812.2  | 811.7  | 811.2  | 809.6  | 808.6  | 808.6  | 808.1  |
| 5°    | 834.5  | 833.5  | 832.0  | 831.5  | 829.5  | 828.4  | 826.4  | 825.4  | 823.9  | 822.8  | 822.3  |
| 7.5°  | 862.0  | 859.4  | 856.4  | 856.9  | 853.9  | 852.3  | 851.3  | 849.3  | 847.8  | 846.2  | 845.7  |
| 10°   | 898.6  | 898.1  | 895.0  | 896.0  | 890.4  | 893.0  | 887.9  | 888.4  | 885.4  | 882.3  | 881.8  |
| 12.5° | 945.3  | 944.8  | 941.8  | 938.2  | 937.2  | 937.7  | 934.7  | 935.2  | 931.6  | 930.6  | 929.6  |
| 15°   | 990.1  | 989.0  | 987.5  | 985.0  | 983.5  | 982.9  | 981.9  | 980.9  | 977.9  | 977.9  | 974.3  |
| 17.5° | 1028.7 | 1029.2 | 1027.2 | 1025.1 | 1024.1 | 1022.6 | 1022.1 | 1022.1 | 1019.5 | 1017.0 | 1017.5 |
| 20°   | 1062.7 | 1063.8 | 1063.8 | 1062.2 | 1062.7 | 1061.7 | 1061.2 | 1062.2 | 1059.7 | 1058.7 | 1057.2 |
| 22.5° | 1100.9 | 1100.9 | 1101.4 | 1102.4 | 1103.9 | 1104.4 | 1104.4 | 1103.4 | 1101.9 | 1101.4 | 1098.3 |
| 25°   | 1153.7 | 1151.7 | 1154.2 | 1155.2 | 1155.2 | 1157.8 | 1156.8 | 1157.3 | 1157.8 | 1156.3 | 1154.7 |
| 27.5° | 1220.3 | 1218.3 | 1223.3 | 1226.9 | 1226.4 | 1227.9 | 1231.0 | 1227.4 | 1229.4 | 1231.0 | 1227.4 |
| 30°   | 1302.1 | 1307.2 | 1310.8 | 1313.3 | 1312.3 | 1316.9 | 1318.4 | 1317.9 | 1316.4 | 1318.9 | 1318.9 |
| 32.5° | 1406.3 | 1403.8 | 1412.9 | 1418.5 | 1419.0 | 1418.0 | 1420.5 | 1423.6 | 1421.1 | 1425.1 | 1423.1 |
| 35°   | 1530.3 | 1531.9 | 1533.9 | 1540.0 | 1542.5 | 1538.5 | 1542.5 | 1546.1 | 1545.1 | 1545.6 | 1547.6 |
| 37.5° | 1690.4 | 1693.0 | 1690.9 | 1691.4 | 1690.4 | 1709.7 | 1712.8 | 1715.8 | 1712.3 | 1709.2 | 1718.4 |
| 40°   | 1912.5 | 1912.5 | 1912.0 | 1918.6 | 1907.4 | 1919.6 | 1916.1 | 1924.7 | 1933.9 | 1928.8 | 1942.5 |
| 42.5° | 2131.1 | 2143.3 | 2144.3 | 2134.6 | 2142.8 | 2156.0 | 2156.0 | 2161.6 | 2169.7 | 2161.6 | 2174.8 |
| 45°   | 2381.6 | 2396.9 | 2394.3 | 2410.6 | 2398.4 | 2413.7 | 2416.2 | 2409.1 | 2426.9 | 2428.9 | 2423.8 |
| 47.5° | 2655.1 | 2658.1 | 2658.6 | 2664.2 | 2666.8 | 2679.0 | 2678.5 | 2691.7 | 2687.6 | 2667.3 | 2674.4 |
| 50°   | 2889.4 | 2897.0 | 2901.1 | 2904.6 | 2917.3 | 2926.0 | 2937.7 | 2939.7 | 2936.6 | 2930.5 | 2925.0 |
| 52.5° | 3123.7 | 3142.0 | 3153.7 | 3185.2 | 3205.0 | 3220.8 | 3240.1 | 3247.2 | 3243.6 | 3242.1 | 3219.7 |
| 55°   | 3437.3 | 3481.0 | 3548.6 | 3592.3 | 3640.1 | 3668.0 | 3690.4 | 3701.6 | 3693.4 | 3697.5 | 3651.2 |
| 57.5° | 4027.8 | 4130.5 | 4189.5 | 4264.2 | 4348.5 | 4383.6 | 4393.3 | 4432.9 | 4389.2 | 4345.5 | 4310.4 |
| 60°   | 4905.6 | 5000.1 | 5107.4 | 5184.1 | 5212.6 | 5309.6 | 5263.9 | 5212.6 | 5165.8 | 5075.3 | 4973.2 |
| 62.5° | 5697.9 | 5819.9 | 5874.8 | 5946.5 | 5927.2 | 5919.0 | 5888.5 | 5806.7 | 5706.6 | 5571.9 | 5435.7 |
| 65°   | 6088.8 | 6157.4 | 6191.4 | 6214.8 | 6193.0 | 6136.6 | 6035.9 | 5915.0 | 5771.6 | 5597.3 | 5418.4 |
| 67°   | 6104.5 | 6136.0 | 6147.2 | 6124.9 | 6076.1 | 5988.1 | 5861.1 | 5689.8 | 5513.4 | 5313.7 | 5112.4 |
| 67.5° | 6078.6 | 6099.5 | 6105.0 | 6070.0 | 6012.0 | 5917.0 | 5781.3 | 5598.3 | 5410.8 | 5203.4 | 5001.1 |
| 70°   | 5724.9 | 5709.6 | 5660.3 | 5612.0 | 5431.1 | 5303.5 | 5067.2 | 4872.0 | 4611.8 | 4421.2 | 4205.2 |
| 72.5° | 4651.0 | 4581.3 | 4533.5 | 4320.1 | 4101.5 | 3975.0 | 3720.9 | 3487.6 | 3250.2 | 3068.8 | 2936.1 |
| 75°   | 2610.9 | 2560.0 | 2427.4 | 2314.5 | 2134.1 | 1968.9 | 1850.5 | 1702.1 | 1559.8 | 1475.4 | 1413.4 |
| 77.5° | 1179.6 | 1034.3 | 934.2  | 807.6  | 652.6  | 524.5  | 389.3  | 359.8  | 307.0  | 293.8  | 264.8  |
| 80°   | 920.4  | 816.2  | 685.1  | 540.3  | 381.2  | 256.2  | 188.1  | 159.6  | 149.9  | 143.8  | 140.8  |
| 82.5° | 768.0  | 632.8  | 532.6  | 378.1  | 241.9  | 162.6  | 122.5  | 110.8  | 103.7  | 98.6   | 94.0   |
| 85°   | 328.3  | 259.7  | 214.0  | 153.0  | 108.8  | 85.9   | 75.2   | 68.6   | 62.0   | 56.4   | 52.9   |
| 87.5° | 76.7   | 59.0   | 53.9   | 45.7   | 43.2   | 42.7   | 42.2   | 40.2   | 37.6   | 34.6   | 31.0   |
| 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):**

|       | 86°    | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°  | 145°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5  | 802.5 | 802.5 |
| 2.5°  | 807.6  | 807.1  | 806.1  | 804.6  | 804.6  | 802.5  | 795.9  | 791.3  | 786.3  | 783.2 | 780.2 |
| 5°    | 821.3  | 820.8  | 818.3  | 816.8  | 815.7  | 811.7  | 800.5  | 791.8  | 782.7  | 776.1 | 771.0 |
| 7.5°  | 844.2  | 842.7  | 840.6  | 839.6  | 836.6  | 831.5  | 815.2  | 803.0  | 789.8  | 779.1 | 770.5 |
| 10°   | 881.3  | 878.8  | 875.7  | 872.7  | 873.7  | 865.5  | 846.7  | 828.9  | 809.6  | 792.9 | 781.2 |
| 12.5° | 926.5  | 926.5  | 925.0  | 923.0  | 919.4  | 910.3  | 884.9  | 864.0  | 840.6  | 819.8 | 811.2 |
| 15°   | 974.3  | 971.8  | 969.2  | 966.2  | 965.7  | 953.5  | 930.6  | 906.7  | 882.3  | 864.5 | 854.4 |
| 17.5° | 1013.4 | 1014.5 | 1010.9 | 1009.9 | 1008.9 | 996.7  | 972.3  | 950.9  | 933.1  | 914.3 | 898.1 |
| 20°   | 1055.1 | 1053.1 | 1052.1 | 1050.5 | 1050.0 | 1039.9 | 1020.6 | 1007.3 | 991.6  | 963.1 | 920.4 |
| 22.5° | 1099.8 | 1097.3 | 1098.3 | 1095.3 | 1094.8 | 1087.6 | 1073.4 | 1069.3 | 1046.0 | 986.0 | 911.8 |
| 25°   | 1157.8 | 1153.2 | 1154.7 | 1154.7 | 1155.2 | 1148.6 | 1147.1 | 1140.0 | 1081.0 | 980.4 | 877.2 |
| 27.5° | 1226.9 | 1228.9 | 1228.9 | 1228.4 | 1224.9 | 1226.9 | 1234.0 | 1209.6 | 1093.2 | 950.9 | 825.4 |
| 30°   | 1316.9 | 1317.9 | 1318.9 | 1322.5 | 1314.8 | 1328.0 | 1336.7 | 1258.9 | 1084.1 | 910.3 | 760.3 |
| 32.5° | 1426.1 | 1422.1 | 1424.1 | 1426.1 | 1428.7 | 1442.4 | 1437.3 | 1283.8 | 1057.2 | 854.9 | 679.5 |
| 35°   | 1546.6 | 1554.2 | 1556.2 | 1560.8 | 1565.9 | 1586.7 | 1528.3 | 1288.9 | 1016.0 | 780.7 | 576.4 |
| 37.5° | 1726.0 | 1738.2 | 1738.2 | 1754.5 | 1744.8 | 1770.2 | 1609.6 | 1276.7 | 953.5  | 677.5 | 460.0 |
| 40°   | 1952.2 | 1957.8 | 1963.4 | 1965.4 | 1960.3 | 1957.3 | 1663.0 | 1246.7 | 865.5  | 547.9 | 336.5 |
| 42.5° | 2182.9 | 2180.9 | 2181.4 | 2184.9 | 2171.2 | 2113.8 | 1696.0 | 1194.4 | 756.3  | 409.1 | 241.4 |
| 45°   | 2431.4 | 2422.8 | 2420.3 | 2413.1 | 2401.0 | 2280.0 | 1714.8 | 1120.7 | 612.4  | 287.7 | 189.6 |
| 47.5° | 2673.4 | 2662.7 | 2646.4 | 2626.6 | 2603.2 | 2413.7 | 1712.8 | 1025.1 | 469.6  | 205.8 | 167.2 |
| 50°   | 2921.4 | 2902.6 | 2867.5 | 2848.2 | 2808.6 | 2546.3 | 1701.1 | 918.9  | 338.0  | 170.3 | 156.5 |
| 52.5° | 3205.0 | 3171.5 | 3138.9 | 3100.3 | 3034.7 | 2709.5 | 1683.3 | 799.5  | 246.5  | 156.0 | 149.4 |
| 55°   | 3627.9 | 3573.0 | 3519.6 | 3439.3 | 3375.8 | 2928.0 | 1653.3 | 670.9  | 194.7  | 150.4 | 145.4 |
| 57.5° | 4210.8 | 4117.3 | 4049.7 | 3941.4 | 3839.8 | 3230.4 | 1621.3 | 554.0  | 173.8  | 148.9 | 143.3 |
| 60°   | 4867.0 | 4726.2 | 4600.1 | 4467.0 | 4351.1 | 3608.0 | 1604.5 | 462.5  | 169.2  | 150.4 | 143.8 |
| 62.5° | 5278.6 | 5112.4 | 4954.9 | 4792.2 | 4625.5 | 3788.5 | 1531.9 | 399.5  | 171.3  | 157.0 | 147.9 |
| 65°   | 5226.8 | 5043.3 | 4872.0 | 4673.8 | 4516.8 | 3618.2 | 1346.9 | 338.0  | 174.8  | 168.7 | 159.1 |
| 67°   | 4877.1 | 4699.2 | 4504.1 | 4309.9 | 4157.4 | 3294.4 | 1136.9 | 284.6  | 178.9  | 182.0 | 171.3 |
| 67.5° | 4783.6 | 4583.4 | 4386.7 | 4208.3 | 4043.1 | 3194.3 | 1082.1 | 271.4  | 179.9  | 185.5 | 175.3 |
| 70°   | 3989.2 | 3830.6 | 3600.4 | 3468.3 | 3348.8 | 2589.5 | 807.1  | 210.9  | 183.0  | 201.3 | 194.7 |
| 72.5° | 2791.3 | 2637.8 | 2517.3 | 2445.2 | 2375.5 | 1881.5 | 567.7  | 168.2  | 178.4  | 209.9 | 203.3 |
| 75°   | 1409.9 | 1374.8 | 1332.6 | 1309.2 | 1310.3 | 1093.7 | 342.0  | 143.3  | 167.7  | 201.3 | 184.5 |
| 77.5° | 278.5  | 271.4  | 274.5  | 300.4  | 295.8  | 337.0  | 169.8  | 121.5  | 142.8  | 155.0 | 132.7 |
| 80°   | 134.7  | 130.1  | 126.0  | 125.0  | 122.5  | 117.4  | 106.7  | 101.1  | 115.9  | 102.2 | 87.9  |
| 82.5° | 87.4   | 82.3   | 80.3   | 76.2   | 76.7   | 83.4   | 93.0   | 97.1   | 94.0   | 70.6  | 59.5  |
| 85°   | 49.3   | 48.8   | 47.8   | 48.8   | 50.8   | 66.6   | 99.6   | 91.0   | 75.7   | 49.8  | 44.7  |
| 87.5° | 29.5   | 28.0   | 28.5   | 29.0   | 30.0   | 49.3   | 78.8   | 65.6   | 48.3   | 25.9  | 26.4  |
| 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):**

|       | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 802.5 | 802.5 | 802.5 | 802.5 |
| 2.5°  | 779.6 | 777.6 | 777.6 | 777.1 |
| 5°    | 766.9 | 763.9 | 763.4 | 763.4 |
| 7.5°  | 764.9 | 760.8 | 760.3 | 758.8 |
| 10°   | 774.1 | 772.5 | 773.0 | 771.5 |
| 12.5° | 803.0 | 805.1 | 807.1 | 807.1 |
| 15°   | 847.2 | 845.7 | 848.3 | 845.7 |
| 17.5° | 879.8 | 866.6 | 863.5 | 862.0 |
| 20°   | 880.8 | 853.3 | 844.2 | 842.7 |
| 22.5° | 849.3 | 808.6 | 793.4 | 790.8 |
| 25°   | 795.9 | 744.6 | 725.3 | 723.2 |
| 27.5° | 728.8 | 671.4 | 642.9 | 641.9 |
| 30°   | 648.0 | 579.9 | 543.8 | 538.2 |
| 32.5° | 549.4 | 468.6 | 430.5 | 418.3 |
| 35°   | 435.6 | 352.7 | 317.1 | 316.1 |
| 37.5° | 325.3 | 260.7 | 237.9 | 236.8 |
| 40°   | 238.4 | 204.8 | 196.2 | 194.7 |
| 42.5° | 194.7 | 180.9 | 177.4 | 175.9 |
| 45°   | 174.3 | 168.7 | 166.7 | 165.2 |
| 47.5° | 162.1 | 158.6 | 157.0 | 157.0 |
| 50°   | 152.5 | 151.5 | 150.4 | 150.4 |
| 52.5° | 145.9 | 145.4 | 144.3 | 143.8 |
| 55°   | 140.3 | 138.2 | 138.8 | 138.2 |
| 57.5° | 136.7 | 133.7 | 133.7 | 133.7 |
| 60°   | 134.7 | 129.1 | 129.1 | 129.6 |
| 62.5° | 135.2 | 126.6 | 126.0 | 126.0 |
| 65°   | 139.3 | 125.0 | 122.0 | 122.5 |
| 67°   | 144.3 | 123.5 | 117.4 | 116.9 |
| 67.5° | 145.9 | 122.5 | 115.9 | 115.4 |
| 70°   | 152.0 | 119.4 | 108.3 | 107.2 |
| 72.5° | 153.0 | 114.9 | 100.6 | 99.6  |
| 75°   | 142.3 | 108.8 | 94.5  | 92.0  |
| 77.5° | 110.8 | 93.5  | 85.4  | 85.4  |
| 80°   | 77.8  | 71.7  | 61.0  | 60.5  |
| 82.5° | 56.9  | 53.9  | 44.7  | 43.7  |
| 85°   | 41.7  | 39.1  | 33.0  | 33.0  |
| 87.5° | 25.9  | 24.9  | 21.3  | 20.3  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)