

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: P145189

Luminaire Tested: **LDRC-SL3-E02-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145189  
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: LDRC-SL3-E02-E-7030  
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5422.9 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1  
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

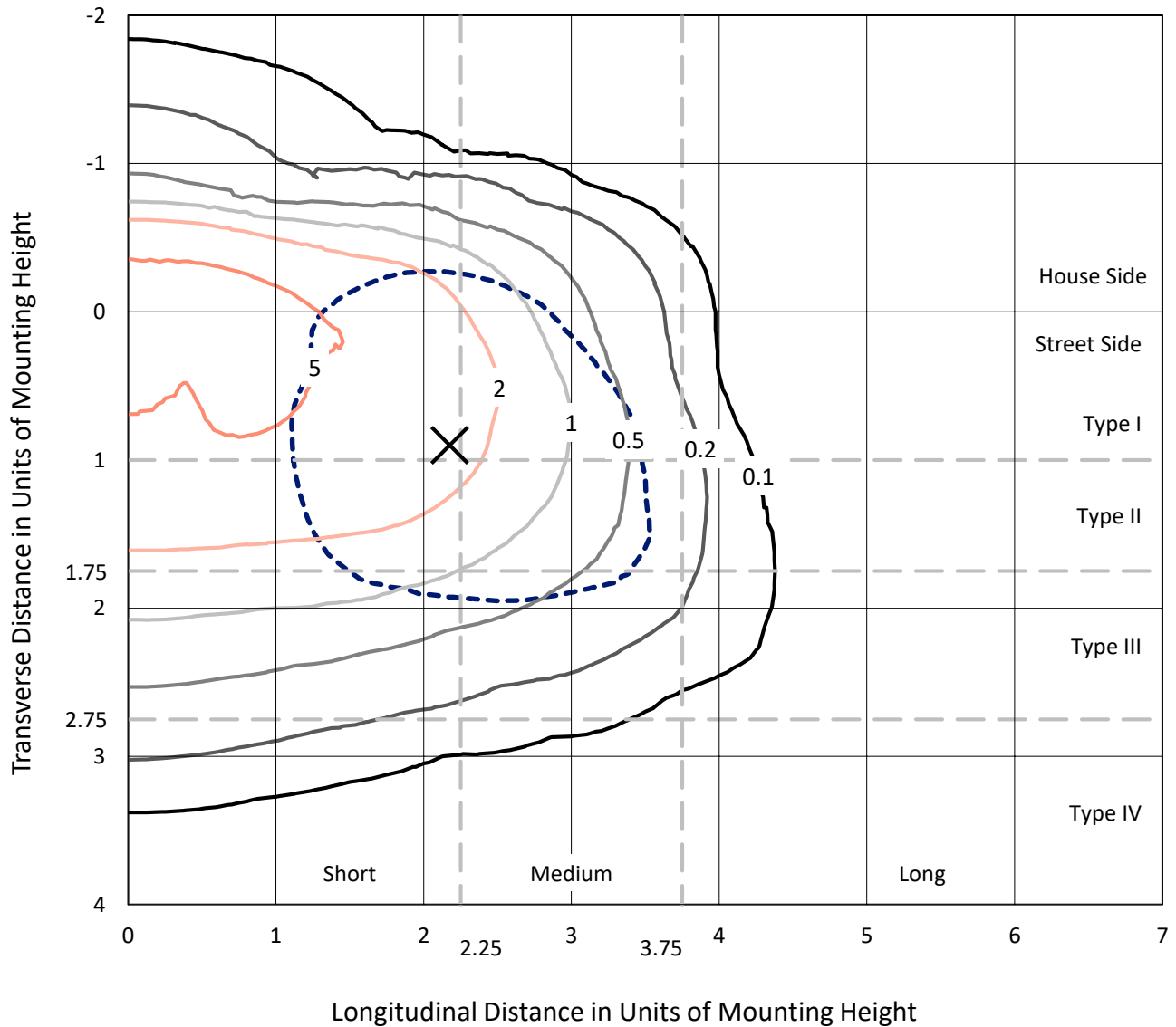


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### Iso-Footcandle Lines of Horizontal Illumination

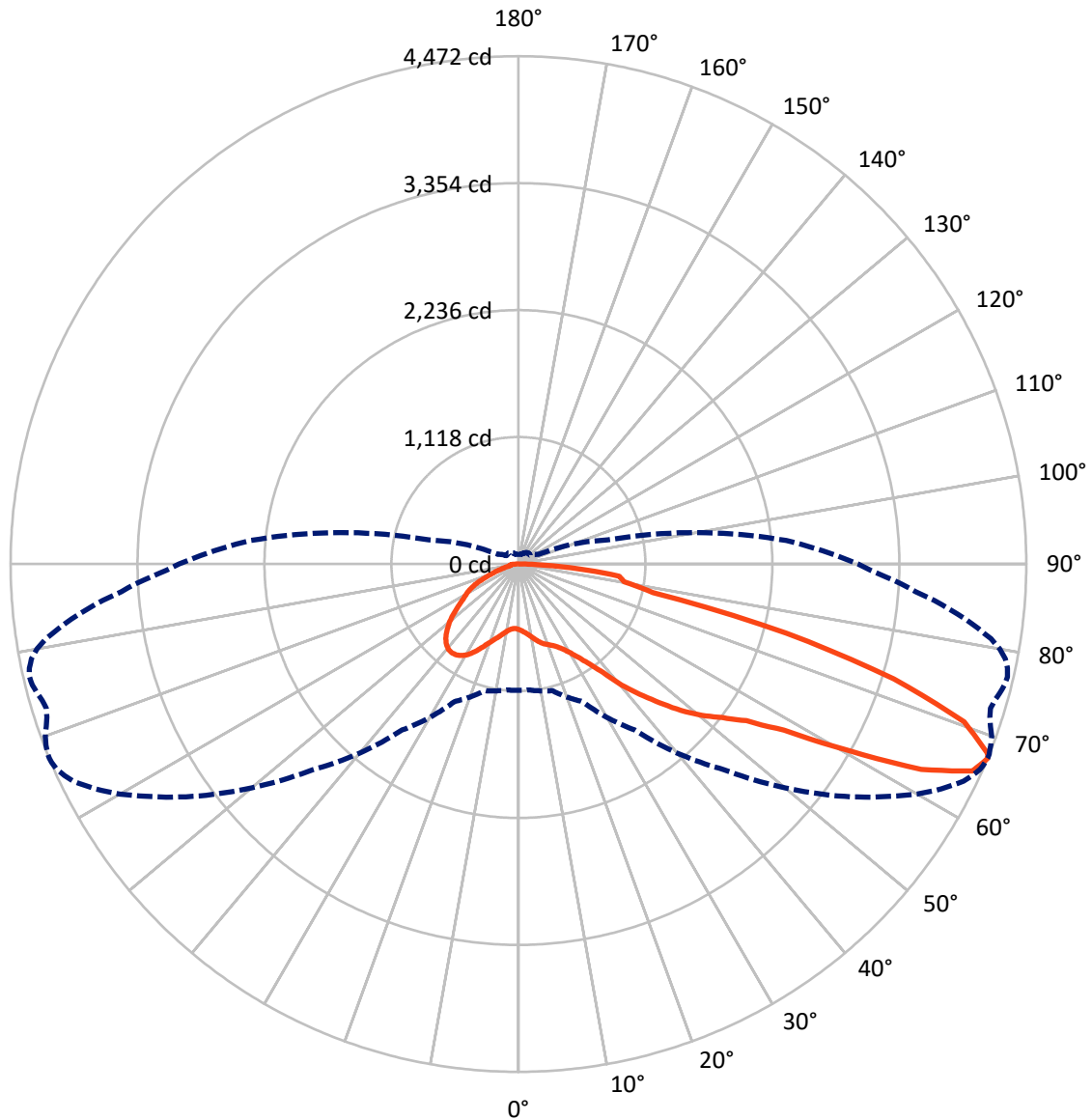
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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    | 1284.1   | 0.0    | 1284.1 |
|                    | % Fixture | 23.7     | 0.0    | 23.7   |
| <b>Street Side</b> | Lumens    | 4138.8   | 0.0    | 4138.8 |
|                    | % Fixture | 76.3     | 0.0    | 76.3   |
| <b>Total</b>       | Lumens    | 5422.9   | 0.0    | 5422.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.6   | 1.1       |
| 10°-20°   | 197.2  | 3.6       |
| 20°-30°   | 351.0  | 6.5       |
| 30°-40°   | 511.3  | 9.4       |
| 40°-50°   | 787.7  | 14.5      |
| 50°-60°   | 1153.7 | 21.3      |
| 60°-70°   | 1532.0 | 28.3      |
| 70°-80°   | 722.1  | 13.3      |
| 80°-90°   | 110.4  | 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°    | 5422.9 | 100.0     |
| 0°-180°   | 5422.9 | 100.0     |



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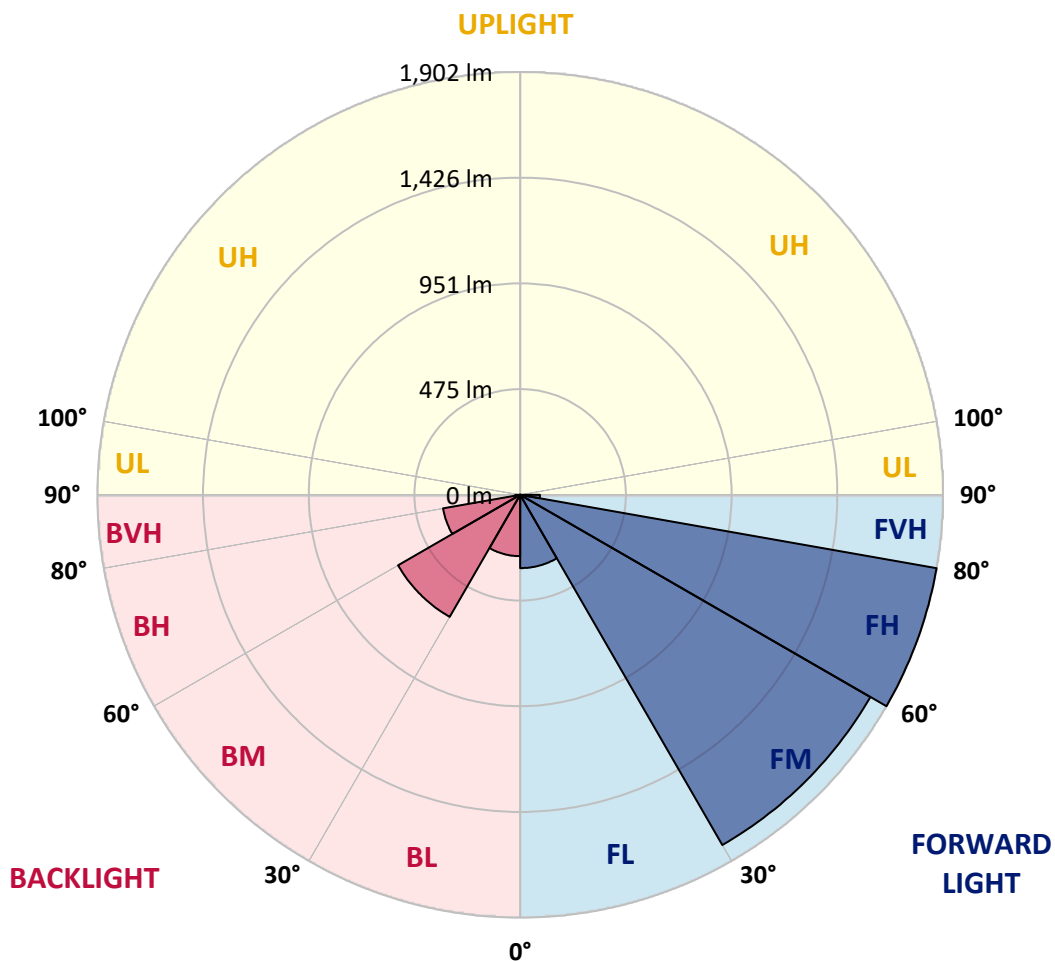
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 329.7  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 1818.6 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 1901.6 | 35.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 89.0   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 276.0  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 634.1  | 11.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 352.5  | 6.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 21.4   | 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°    | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  |
| 2.5°  | 605.7  | 603.2  | 603.5  | 604.6  | 601.0  | 599.2  | 595.1  | 592.6  | 592.2  | 591.9  | 590.4  |
| 5°    | 641.2  | 638.6  | 639.7  | 636.8  | 629.8  | 625.1  | 616.7  | 612.3  | 611.6  | 610.8  | 609.0  |
| 7.5°  | 678.1  | 674.8  | 671.1  | 667.8  | 660.2  | 652.5  | 641.5  | 635.0  | 634.2  | 633.1  | 632.0  |
| 10°   | 721.9  | 717.2  | 714.2  | 704.0  | 690.9  | 680.3  | 669.3  | 662.4  | 662.0  | 660.9  | 658.7  |
| 12.5° | 771.2  | 766.1  | 760.6  | 747.1  | 726.7  | 711.0  | 698.2  | 694.1  | 690.9  | 691.2  | 689.0  |
| 15°   | 820.2  | 814.7  | 807.4  | 790.2  | 763.2  | 739.8  | 723.4  | 717.5  | 717.9  | 716.1  | 717.2  |
| 17.5° | 861.5  | 856.7  | 846.1  | 824.2  | 792.8  | 760.6  | 739.8  | 737.3  | 738.0  | 737.6  | 738.7  |
| 20°   | 888.5  | 885.6  | 869.5  | 843.2  | 807.8  | 772.3  | 751.1  | 751.1  | 751.5  | 753.0  | 755.5  |
| 22.5° | 904.9  | 900.6  | 879.4  | 842.5  | 807.4  | 777.8  | 761.4  | 765.0  | 767.2  | 768.3  | 772.3  |
| 25°   | 914.1  | 908.6  | 879.7  | 830.8  | 795.0  | 781.8  | 776.7  | 785.8  | 789.5  | 791.3  | 797.9  |
| 27.5° | 914.1  | 907.5  | 875.0  | 816.2  | 780.7  | 793.9  | 805.9  | 821.6  | 824.2  | 829.7  | 837.4  |
| 30°   | 903.9  | 898.7  | 867.7  | 805.2  | 777.1  | 816.5  | 853.1  | 871.0  | 877.2  | 883.4  | 893.3  |
| 32.5° | 892.9  | 888.5  | 864.0  | 811.1  | 797.5  | 864.0  | 925.0  | 949.5  | 953.2  | 958.3  | 968.5  |
| 35°   | 892.2  | 890.7  | 880.1  | 848.3  | 859.3  | 951.0  | 1033.5 | 1050.4 | 1060.6 | 1063.1 | 1067.5 |
| 37.5° | 899.8  | 902.8  | 911.9  | 908.6  | 948.1  | 1080.3 | 1175.7 | 1209.3 | 1217.3 | 1212.9 | 1216.9 |
| 40°   | 917.7  | 925.0  | 959.0  | 1001.0 | 1083.6 | 1236.7 | 1369.3 | 1408.0 | 1416.8 | 1414.2 | 1413.1 |
| 42.5° | 974.4  | 984.2  | 1034.3 | 1124.2 | 1224.6 | 1398.5 | 1549.0 | 1590.7 | 1593.6 | 1595.1 | 1585.6 |
| 45°   | 1063.1 | 1068.6 | 1135.1 | 1249.8 | 1377.3 | 1572.8 | 1728.4 | 1774.8 | 1773.0 | 1765.7 | 1758.7 |
| 47.5° | 1164.0 | 1175.3 | 1254.9 | 1393.8 | 1535.2 | 1733.9 | 1910.0 | 1955.3 | 1959.3 | 1952.7 | 1940.0 |
| 50°   | 1255.7 | 1264.4 | 1354.3 | 1519.1 | 1674.4 | 1868.0 | 2063.1 | 2108.7 | 2108.0 | 2111.7 | 2115.3 |
| 52.5° | 1328.0 | 1336.0 | 1421.5 | 1602.7 | 1776.6 | 1980.5 | 2178.5 | 2234.8 | 2243.6 | 2249.4 | 2256.7 |
| 55°   | 1365.3 | 1373.7 | 1452.6 | 1637.5 | 1838.8 | 2090.5 | 2311.9 | 2392.6 | 2407.6 | 2420.7 | 2432.8 |
| 57.5° | 1366.0 | 1377.0 | 1449.3 | 1634.9 | 1870.9 | 2188.8 | 2488.3 | 2633.4 | 2654.6 | 2688.2 | 2729.5 |
| 60°   | 1343.7 | 1359.1 | 1424.1 | 1611.2 | 1907.8 | 2313.3 | 2779.1 | 3056.8 | 3098.4 | 3157.3 | 3210.2 |
| 62.5° | 1285.6 | 1301.0 | 1359.1 | 1550.9 | 1950.9 | 2473.0 | 3199.3 | 3606.3 | 3695.1 | 3760.1 | 3864.9 |
| 65°   | 1193.9 | 1208.5 | 1257.5 | 1451.1 | 1916.6 | 2599.0 | 3512.4 | 4000.5 | 4091.1 | 4172.5 | 4295.7 |
| 67°   | 1112.1 | 1113.6 | 1154.8 | 1336.8 | 1782.9 | 2559.9 | 3575.2 | 4053.1 | 4136.7 | 4219.3 | 4362.2 |
| 67.5° | 1083.2 | 1091.3 | 1123.4 | 1298.8 | 1732.1 | 2531.1 | 3550.4 | 4024.6 | 4105.7 | 4193.7 | 4339.5 |
| 70°   | 875.7  | 877.9  | 909.0  | 1036.1 | 1374.4 | 2098.5 | 3189.1 | 3661.1 | 3716.6 | 3845.6 | 3988.8 |
| 72.5° | 534.1  | 530.5  | 540.3  | 634.6  | 904.6  | 1453.3 | 2553.4 | 3014.1 | 3090.0 | 3200.0 | 3296.8 |
| 75°   | 294.1  | 311.6  | 323.7  | 389.1  | 508.2  | 854.5  | 1738.7 | 2180.7 | 2292.1 | 2357.5 | 2376.9 |
| 77.5° | 179.7  | 178.3  | 183.8  | 251.0  | 416.9  | 584.5  | 960.5  | 1279.4 | 1341.5 | 1360.2 | 1288.2 |
| 80°   | 85.5   | 88.8   | 87.7   | 103.4  | 202.0  | 493.2  | 671.5  | 821.6  | 853.1  | 871.0  | 894.4  |
| 82.5° | 46.8   | 48.6   | 55.2   | 61.7   | 79.6   | 212.3  | 579.4  | 757.7  | 778.9  | 809.6  | 843.9  |
| 85°   | 29.2   | 30.7   | 42.4   | 44.6   | 49.0   | 65.4   | 241.5  | 442.8  | 460.7  | 521.7  | 541.1  |
| 87.5° | 12.1   | 13.2   | 23.0   | 20.8   | 24.8   | 23.0   | 73.1   | 112.5  | 119.5  | 127.1  | 141.0  |
| 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):**

|       | 65°    | 66°    | 67°    | 67.5°  | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  |
| 2.5°  | 590.8  | 590.4  | 588.9  | 588.6  | 589.3  | 589.3  | 588.6  | 587.5  | 587.1  | 586.7  | 586.0  |
| 5°    | 608.3  | 607.6  | 606.5  | 605.7  | 605.4  | 605.4  | 604.3  | 603.2  | 602.1  | 600.6  | 600.3  |
| 7.5°  | 629.1  | 629.1  | 628.8  | 627.7  | 626.6  | 625.1  | 624.0  | 622.9  | 621.8  | 621.1  | 620.0  |
| 10°   | 656.5  | 658.0  | 655.4  | 654.7  | 654.3  | 652.1  | 651.8  | 650.7  | 649.9  | 648.1  | 648.1  |
| 12.5° | 689.0  | 687.6  | 687.2  | 685.7  | 685.7  | 684.6  | 684.3  | 683.9  | 683.2  | 681.7  | 681.4  |
| 15°   | 716.1  | 716.1  | 715.7  | 715.0  | 715.7  | 715.0  | 713.9  | 714.6  | 713.5  | 713.9  | 712.8  |
| 17.5° | 738.0  | 739.4  | 739.1  | 739.4  | 739.1  | 739.1  | 739.8  | 739.8  | 740.5  | 739.1  | 739.4  |
| 20°   | 756.3  | 758.4  | 759.5  | 758.8  | 759.5  | 759.9  | 761.7  | 762.5  | 763.6  | 764.3  | 764.3  |
| 22.5° | 775.3  | 778.2  | 780.4  | 780.4  | 781.8  | 783.3  | 786.6  | 787.3  | 789.9  | 789.5  | 791.3  |
| 25°   | 801.9  | 806.7  | 808.1  | 810.3  | 812.2  | 814.7  | 818.7  | 820.6  | 821.6  | 824.2  | 827.1  |
| 27.5° | 842.8  | 848.7  | 849.8  | 852.3  | 857.1  | 858.5  | 862.9  | 864.8  | 868.8  | 874.3  | 875.4  |
| 30°   | 898.7  | 906.0  | 906.4  | 909.3  | 914.8  | 916.6  | 920.3  | 925.0  | 928.3  | 933.8  | 934.2  |
| 32.5° | 974.7  | 982.0  | 980.9  | 986.4  | 986.1  | 991.5  | 990.4  | 997.7  | 1000.7 | 1003.6 | 1011.6 |
| 35°   | 1075.9 | 1075.2 | 1080.7 | 1082.5 | 1081.4 | 1085.8 | 1085.1 | 1088.3 | 1091.3 | 1091.3 | 1100.0 |
| 37.5° | 1221.7 | 1220.6 | 1219.9 | 1212.2 | 1210.4 | 1210.7 | 1209.3 | 1212.2 | 1207.4 | 1207.4 | 1216.9 |
| 40°   | 1417.2 | 1410.6 | 1405.5 | 1400.3 | 1395.2 | 1388.3 | 1382.4 | 1381.0 | 1372.9 | 1372.6 | 1368.9 |
| 42.5° | 1587.0 | 1580.8 | 1577.2 | 1567.3 | 1562.2 | 1561.1 | 1546.9 | 1542.8 | 1540.6 | 1542.1 | 1538.4 |
| 45°   | 1765.3 | 1758.7 | 1744.9 | 1740.5 | 1739.0 | 1731.3 | 1729.2 | 1719.3 | 1716.4 | 1721.5 | 1719.7 |
| 47.5° | 1949.1 | 1939.6 | 1931.9 | 1926.8 | 1925.0 | 1918.4 | 1908.9 | 1916.9 | 1912.9 | 1910.0 | 1904.5 |
| 50°   | 2114.2 | 2103.6 | 2103.6 | 2094.5 | 2096.0 | 2091.6 | 2081.7 | 2083.9 | 2072.6 | 2077.0 | 2074.0 |
| 52.5° | 2252.7 | 2253.4 | 2257.1 | 2246.8 | 2248.7 | 2248.7 | 2245.4 | 2234.8 | 2237.7 | 2236.2 | 2243.2 |
| 55°   | 2428.8 | 2440.8 | 2434.3 | 2436.1 | 2438.3 | 2448.5 | 2455.8 | 2449.6 | 2439.4 | 2447.4 | 2469.7 |
| 57.5° | 2736.8 | 2747.7 | 2754.3 | 2759.4 | 2767.8 | 2772.6 | 2812.0 | 2817.5 | 2805.8 | 2829.9 | 2879.6 |
| 60°   | 3272.4 | 3285.5 | 3305.2 | 3331.2 | 3336.7 | 3369.9 | 3390.4 | 3414.5 | 3423.2 | 3444.1 | 3497.4 |
| 62.5° | 3916.4 | 3946.0 | 3949.7 | 3982.6 | 4008.1 | 3977.1 | 3985.1 | 4014.7 | 3981.1 | 4027.1 | 4029.3 |
| 65°   | 4338.0 | 4381.2 | 4382.6 | 4394.7 | 4404.2 | 4374.9 | 4361.8 | 4348.6 | 4316.9 | 4315.0 | 4346.8 |
| 67°   | 4410.4 | 4449.8 | 4466.3 | 4472.1 | 4470.7 | 4455.7 | 4434.1 | 4396.1 | 4365.4 | 4347.9 | 4361.1 |
| 67.5° | 4389.9 | 4428.7 | 4451.7 | 4457.1 | 4457.5 | 4442.9 | 4423.2 | 4381.9 | 4353.0 | 4333.3 | 4347.2 |
| 70°   | 4053.8 | 4144.4 | 4183.9 | 4163.4 | 4175.1 | 4175.1 | 4174.4 | 4136.4 | 4122.1 | 4103.1 | 4095.8 |
| 72.5° | 3370.6 | 3433.5 | 3483.5 | 3456.8 | 3460.1 | 3485.0 | 3479.1 | 3483.2 | 3442.2 | 3437.9 | 3370.3 |
| 75°   | 2414.5 | 2434.6 | 2417.8 | 2436.8 | 2334.5 | 2298.0 | 2235.9 | 2145.3 | 2121.5 | 2083.9 | 1971.4 |
| 77.5° | 1282.7 | 1260.1 | 1215.1 | 1211.5 | 1169.5 | 1136.9 | 1096.8 | 1070.4 | 1004.0 | 967.1  | 882.7  |
| 80°   | 906.0  | 917.0  | 934.2  | 944.4  | 953.9  | 961.2  | 946.2  | 904.2  | 848.7  | 786.6  | 727.8  |
| 82.5° | 865.5  | 880.5  | 890.7  | 895.8  | 892.2  | 880.5  | 846.1  | 805.9  | 731.8  | 678.1  | 614.5  |
| 85°   | 545.8  | 557.9  | 537.0  | 532.7  | 541.8  | 468.0  | 427.4  | 394.6  | 319.7  | 297.4  | 262.7  |
| 87.5° | 146.5  | 154.5  | 154.9  | 150.2  | 147.2  | 129.7  | 114.7  | 101.6  | 84.0   | 78.9   | 63.9   |
| 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°    | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  |
| 2.5°  | 586.0  | 585.6  | 585.6  | 584.5  | 583.8  | 583.4  | 583.1  | 582.0  | 581.3  | 581.3  | 580.9  |
| 5°    | 599.9  | 599.2  | 598.1  | 597.7  | 596.2  | 595.5  | 594.0  | 593.3  | 592.2  | 591.5  | 591.1  |
| 7.5°  | 619.6  | 617.8  | 615.6  | 616.0  | 613.8  | 612.7  | 611.9  | 610.5  | 609.4  | 608.3  | 607.9  |
| 10°   | 645.9  | 645.6  | 643.4  | 644.1  | 640.1  | 641.9  | 638.2  | 638.6  | 636.4  | 634.2  | 633.9  |
| 12.5° | 679.5  | 679.2  | 677.0  | 674.4  | 673.7  | 674.1  | 671.9  | 672.2  | 669.7  | 668.9  | 668.2  |
| 15°   | 711.7  | 711.0  | 709.9  | 708.0  | 706.9  | 706.6  | 705.8  | 705.1  | 702.9  | 702.9  | 700.4  |
| 17.5° | 739.4  | 739.8  | 738.4  | 736.9  | 736.2  | 735.1  | 734.7  | 734.7  | 732.9  | 731.0  | 731.4  |
| 20°   | 763.9  | 764.7  | 764.7  | 763.6  | 763.9  | 763.2  | 762.8  | 763.6  | 761.7  | 761.0  | 759.9  |
| 22.5° | 791.3  | 791.3  | 791.7  | 792.4  | 793.5  | 793.9  | 793.9  | 793.2  | 792.1  | 791.7  | 789.5  |
| 25°   | 829.3  | 827.9  | 829.7  | 830.4  | 830.4  | 832.2  | 831.5  | 831.9  | 832.2  | 831.1  | 830.1  |
| 27.5° | 877.2  | 875.7  | 879.4  | 881.9  | 881.6  | 882.7  | 884.9  | 882.3  | 883.8  | 884.9  | 882.3  |
| 30°   | 936.0  | 939.7  | 942.2  | 944.0  | 943.3  | 946.6  | 947.7  | 947.3  | 946.2  | 948.1  | 948.1  |
| 32.5° | 1010.9 | 1009.1 | 1015.6 | 1019.7 | 1020.0 | 1019.3 | 1021.1 | 1023.3 | 1021.5 | 1024.4 | 1023.0 |
| 35°   | 1100.0 | 1101.1 | 1102.6 | 1107.0 | 1108.8 | 1105.9 | 1108.8 | 1111.4 | 1110.6 | 1111.0 | 1112.5 |
| 37.5° | 1215.1 | 1216.9 | 1215.5 | 1215.9 | 1215.1 | 1229.0 | 1231.2 | 1233.4 | 1230.8 | 1228.6 | 1235.2 |
| 40°   | 1374.8 | 1374.8 | 1374.4 | 1379.2 | 1371.1 | 1379.9 | 1377.3 | 1383.5 | 1390.1 | 1386.5 | 1396.3 |
| 42.5° | 1531.9 | 1540.6 | 1541.4 | 1534.4 | 1540.3 | 1549.8 | 1549.8 | 1553.8 | 1559.6 | 1553.8 | 1563.3 |
| 45°   | 1712.0 | 1722.9 | 1721.1 | 1732.8 | 1724.0 | 1735.0 | 1736.8 | 1731.7 | 1744.5 | 1746.0 | 1742.3 |
| 47.5° | 1908.5 | 1910.7 | 1911.1 | 1915.1 | 1916.9 | 1925.7 | 1925.3 | 1934.8 | 1931.9 | 1917.3 | 1922.4 |
| 50°   | 2077.0 | 2082.4 | 2085.4 | 2087.9 | 2097.1 | 2103.3 | 2111.7 | 2113.1 | 2110.9 | 2106.6 | 2102.5 |
| 52.5° | 2245.4 | 2258.5 | 2266.9 | 2289.6 | 2303.8 | 2315.2 | 2329.0 | 2334.2 | 2331.6 | 2330.5 | 2314.4 |
| 55°   | 2470.8 | 2502.2 | 2550.8 | 2582.2 | 2616.6 | 2636.7 | 2652.7 | 2660.8 | 2654.9 | 2657.8 | 2624.6 |
| 57.5° | 2895.3 | 2969.1 | 3011.5 | 3065.2 | 3125.9 | 3151.1 | 3158.0 | 3186.5 | 3155.1 | 3123.7 | 3098.4 |
| 60°   | 3526.3 | 3594.2 | 3671.3 | 3726.5 | 3746.9 | 3816.7 | 3783.8 | 3746.9 | 3713.3 | 3648.3 | 3574.9 |
| 62.5° | 4095.8 | 4183.5 | 4223.0 | 4274.5 | 4260.6 | 4254.8 | 4232.8 | 4174.0 | 4102.0 | 4005.2 | 3907.3 |
| 65°   | 4376.8 | 4426.1 | 4450.6 | 4467.4 | 4451.7 | 4411.1 | 4338.8 | 4251.8 | 4148.8 | 4023.5 | 3894.9 |
| 67°   | 4388.1 | 4410.8 | 4418.8 | 4402.7 | 4367.6 | 4304.4 | 4213.1 | 4090.0 | 3963.2 | 3819.6 | 3675.0 |
| 67.5° | 4369.5 | 4384.4 | 4388.5 | 4363.3 | 4321.6 | 4253.3 | 4155.7 | 4024.2 | 3889.4 | 3740.4 | 3594.9 |
| 70°   | 4115.2 | 4104.2 | 4068.8 | 4034.1 | 3904.0 | 3812.3 | 3642.4 | 3502.2 | 3315.1 | 3178.1 | 3022.8 |
| 72.5° | 3343.2 | 3293.2 | 3258.8 | 3105.4 | 2948.3 | 2857.3 | 2674.7 | 2507.0 | 2336.4 | 2205.9 | 2110.6 |
| 75°   | 1876.8 | 1840.2 | 1744.9 | 1663.8 | 1534.1 | 1415.3 | 1330.2 | 1223.5 | 1121.2 | 1060.6 | 1016.0 |
| 77.5° | 848.0  | 743.5  | 671.5  | 580.5  | 469.1  | 377.0  | 279.9  | 258.7  | 220.7  | 211.2  | 190.3  |
| 80°   | 661.6  | 586.7  | 492.5  | 388.4  | 274.0  | 184.1  | 135.2  | 114.7  | 107.8  | 103.4  | 101.2  |
| 82.5° | 552.0  | 454.8  | 382.9  | 271.8  | 173.9  | 116.9  | 88.0   | 79.6   | 74.5   | 70.9   | 67.6   |
| 85°   | 236.0  | 186.7  | 153.8  | 110.0  | 78.2   | 61.7   | 54.1   | 49.3   | 44.6   | 40.6   | 38.0   |
| 87.5° | 55.2   | 42.4   | 38.7   | 32.9   | 31.1   | 30.7   | 30.3   | 28.9   | 27.0   | 24.8   | 22.3   |
| 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°    | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9  | 576.9 | 576.9 | 576.9 | 576.9 |
| 2.5°  | 580.5  | 580.2  | 579.4  | 578.3  | 578.3  | 576.9  | 572.1  | 568.8 | 565.2 | 563.0 | 560.8 |
| 5°    | 590.4  | 590.0  | 588.2  | 587.1  | 586.4  | 583.4  | 575.4  | 569.2 | 562.6 | 557.9 | 554.2 |
| 7.5°  | 606.8  | 605.7  | 604.3  | 603.5  | 601.3  | 597.7  | 586.0  | 577.2 | 567.7 | 560.1 | 553.9 |
| 10°   | 633.5  | 631.7  | 629.5  | 627.3  | 628.0  | 622.2  | 608.7  | 595.9 | 582.0 | 569.9 | 561.5 |
| 12.5° | 666.0  | 666.0  | 664.9  | 663.5  | 660.9  | 654.3  | 636.1  | 621.1 | 604.3 | 589.3 | 583.1 |
| 15°   | 700.4  | 698.5  | 696.7  | 694.5  | 694.1  | 685.4  | 668.9  | 651.8 | 634.2 | 621.4 | 614.1 |
| 17.5° | 728.5  | 729.2  | 726.7  | 725.9  | 725.2  | 716.4  | 698.9  | 683.6 | 670.8 | 657.2 | 645.6 |
| 20°   | 758.4  | 757.0  | 756.3  | 755.2  | 754.8  | 747.5  | 733.6  | 724.1 | 712.8 | 692.3 | 661.6 |
| 22.5° | 790.6  | 788.8  | 789.5  | 787.3  | 786.9  | 781.8  | 771.6  | 768.7 | 751.9 | 708.8 | 655.4 |
| 25°   | 832.2  | 829.0  | 830.1  | 830.1  | 830.4  | 825.7  | 824.6  | 819.5 | 777.1 | 704.7 | 630.6 |
| 27.5° | 881.9  | 883.4  | 883.4  | 883.0  | 880.5  | 881.9  | 887.0  | 869.5 | 785.8 | 683.6 | 593.3 |
| 30°   | 946.6  | 947.3  | 948.1  | 950.6  | 945.1  | 954.6  | 960.8  | 904.9 | 779.3 | 654.3 | 546.5 |
| 32.5° | 1025.1 | 1022.2 | 1023.7 | 1025.1 | 1027.0 | 1036.8 | 1033.2 | 922.8 | 759.9 | 614.5 | 488.5 |
| 35°   | 1111.7 | 1117.2 | 1118.7 | 1122.0 | 1125.6 | 1140.6 | 1098.6 | 926.5 | 730.3 | 561.2 | 414.3 |
| 37.5° | 1240.7 | 1249.5 | 1249.5 | 1261.2 | 1254.2 | 1272.5 | 1157.0 | 917.7 | 685.4 | 487.0 | 330.6 |
| 40°   | 1403.3 | 1407.3 | 1411.3 | 1412.8 | 1409.1 | 1406.9 | 1195.4 | 896.2 | 622.2 | 393.8 | 241.9 |
| 42.5° | 1569.1 | 1567.7 | 1568.0 | 1570.6 | 1560.7 | 1519.4 | 1219.1 | 858.5 | 543.6 | 294.1 | 173.5 |
| 45°   | 1747.8 | 1741.6 | 1739.7 | 1734.6 | 1725.9 | 1638.9 | 1232.7 | 805.6 | 440.2 | 206.8 | 136.3 |
| 47.5° | 1921.7 | 1914.0 | 1902.3 | 1888.1 | 1871.3 | 1735.0 | 1231.2 | 736.9 | 337.6 | 148.0 | 120.2 |
| 50°   | 2100.0 | 2086.5 | 2061.2 | 2047.4 | 2018.9 | 1830.4 | 1222.8 | 660.5 | 243.0 | 122.4 | 112.5 |
| 52.5° | 2303.8 | 2279.7 | 2256.3 | 2228.6 | 2181.4 | 1947.6 | 1210.0 | 574.7 | 177.2 | 112.2 | 107.4 |
| 55°   | 2607.8 | 2568.3 | 2530.0 | 2472.3 | 2426.6 | 2104.7 | 1188.5 | 482.2 | 139.9 | 108.1 | 104.5 |
| 57.5° | 3026.8 | 2959.6 | 2911.0 | 2833.2 | 2760.1 | 2322.1 | 1165.4 | 398.2 | 124.9 | 107.0 | 103.0 |
| 60°   | 3498.5 | 3397.3 | 3306.7 | 3211.0 | 3127.7 | 2593.5 | 1153.4 | 332.5 | 121.7 | 108.1 | 103.4 |
| 62.5° | 3794.4 | 3675.0 | 3561.7 | 3444.8 | 3325.0 | 2723.2 | 1101.1 | 287.2 | 123.1 | 112.9 | 106.3 |
| 65°   | 3757.2 | 3625.3 | 3502.2 | 3359.7 | 3246.8 | 2600.9 | 968.2  | 243.0 | 125.7 | 121.3 | 114.4 |
| 67°   | 3505.8 | 3377.9 | 3237.6 | 3098.1 | 2988.5 | 2368.1 | 817.3  | 204.6 | 128.6 | 130.8 | 123.1 |
| 67.5° | 3438.6 | 3294.6 | 3153.3 | 3025.0 | 2906.3 | 2296.2 | 777.8  | 195.1 | 129.3 | 133.3 | 126.0 |
| 70°   | 2867.6 | 2753.6 | 2588.1 | 2493.1 | 2407.2 | 1861.4 | 580.2  | 151.6 | 131.5 | 144.7 | 139.9 |
| 72.5° | 2006.4 | 1896.1 | 1809.5 | 1757.7 | 1707.6 | 1352.5 | 408.1  | 120.9 | 128.2 | 150.9 | 146.1 |
| 75°   | 1013.5 | 988.2  | 957.9  | 941.1  | 941.8  | 786.2  | 245.9  | 103.0 | 120.6 | 144.7 | 132.6 |
| 77.5° | 200.2  | 195.1  | 197.3  | 215.9  | 212.6  | 242.2  | 122.0  | 87.3  | 102.7 | 111.4 | 95.4  |
| 80°   | 96.8   | 93.5   | 90.6   | 89.9   | 88.0   | 84.4   | 76.7   | 72.7  | 83.3  | 73.4  | 63.2  |
| 82.5° | 62.8   | 59.2   | 57.7   | 54.8   | 55.2   | 59.9   | 66.9   | 69.8  | 67.6  | 50.8  | 42.7  |
| 85°   | 35.4   | 35.1   | 34.3   | 35.1   | 36.5   | 47.9   | 71.6   | 65.4  | 54.4  | 35.8  | 32.1  |
| 87.5° | 21.2   | 20.1   | 20.5   | 20.8   | 21.6   | 35.4   | 56.6   | 47.1  | 34.7  | 18.6  | 19.0  |
| 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):**

|       | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 576.9 | 576.9 | 576.9 | 576.9 |
| 2.5°  | 560.4 | 559.0 | 559.0 | 558.6 |
| 5°    | 551.3 | 549.1 | 548.7 | 548.7 |
| 7.5°  | 549.8 | 546.9 | 546.5 | 545.5 |
| 10°   | 556.4 | 555.3 | 555.7 | 554.6 |
| 12.5° | 577.2 | 578.7 | 580.2 | 580.2 |
| 15°   | 609.0 | 607.9 | 609.8 | 607.9 |
| 17.5° | 632.4 | 622.9 | 620.7 | 619.6 |
| 20°   | 633.1 | 613.4 | 606.8 | 605.7 |
| 22.5° | 610.5 | 581.3 | 570.3 | 568.5 |
| 25°   | 572.1 | 535.2 | 521.3 | 519.9 |
| 27.5° | 523.9 | 482.6 | 462.2 | 461.4 |
| 30°   | 465.8 | 416.9 | 390.9 | 386.9 |
| 32.5° | 394.9 | 336.8 | 309.4 | 300.7 |
| 35°   | 313.1 | 253.5 | 228.0 | 227.2 |
| 37.5° | 233.8 | 187.4 | 171.0 | 170.2 |
| 40°   | 171.3 | 147.2 | 141.0 | 139.9 |
| 42.5° | 139.9 | 130.1 | 127.5 | 126.4 |
| 45°   | 125.3 | 121.3 | 119.8 | 118.7 |
| 47.5° | 116.5 | 114.0 | 112.9 | 112.9 |
| 50°   | 109.6 | 108.9 | 108.1 | 108.1 |
| 52.5° | 104.9 | 104.5 | 103.8 | 103.4 |
| 55°   | 100.8 | 99.4  | 99.7  | 99.4  |
| 57.5° | 98.3  | 96.1  | 96.1  | 96.1  |
| 60°   | 96.8  | 92.8  | 92.8  | 93.2  |
| 62.5° | 97.2  | 91.0  | 90.6  | 90.6  |
| 65°   | 100.1 | 89.9  | 87.7  | 88.0  |
| 67°   | 103.8 | 88.8  | 84.4  | 84.0  |
| 67.5° | 104.9 | 88.0  | 83.3  | 82.9  |
| 70°   | 109.2 | 85.9  | 77.8  | 77.1  |
| 72.5° | 110.0 | 82.6  | 72.3  | 71.6  |
| 75°   | 102.3 | 78.2  | 68.0  | 66.1  |
| 77.5° | 79.6  | 67.2  | 61.4  | 61.4  |
| 80°   | 55.9  | 51.5  | 43.8  | 43.5  |
| 82.5° | 40.9  | 38.7  | 32.1  | 31.4  |
| 85°   | 30.0  | 28.1  | 23.7  | 23.7  |
| 87.5° | 18.6  | 17.9  | 15.3  | 14.6  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)