

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: INVUE

Report Number: P151011

Luminaire Tested: **VXS-E02-LED-E1-SL3-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P151011  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-E02-LED-E1-SL3-7050  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (42) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6230.8 lumens  
Efficiency: N/A  
Efficacy: 119.6 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



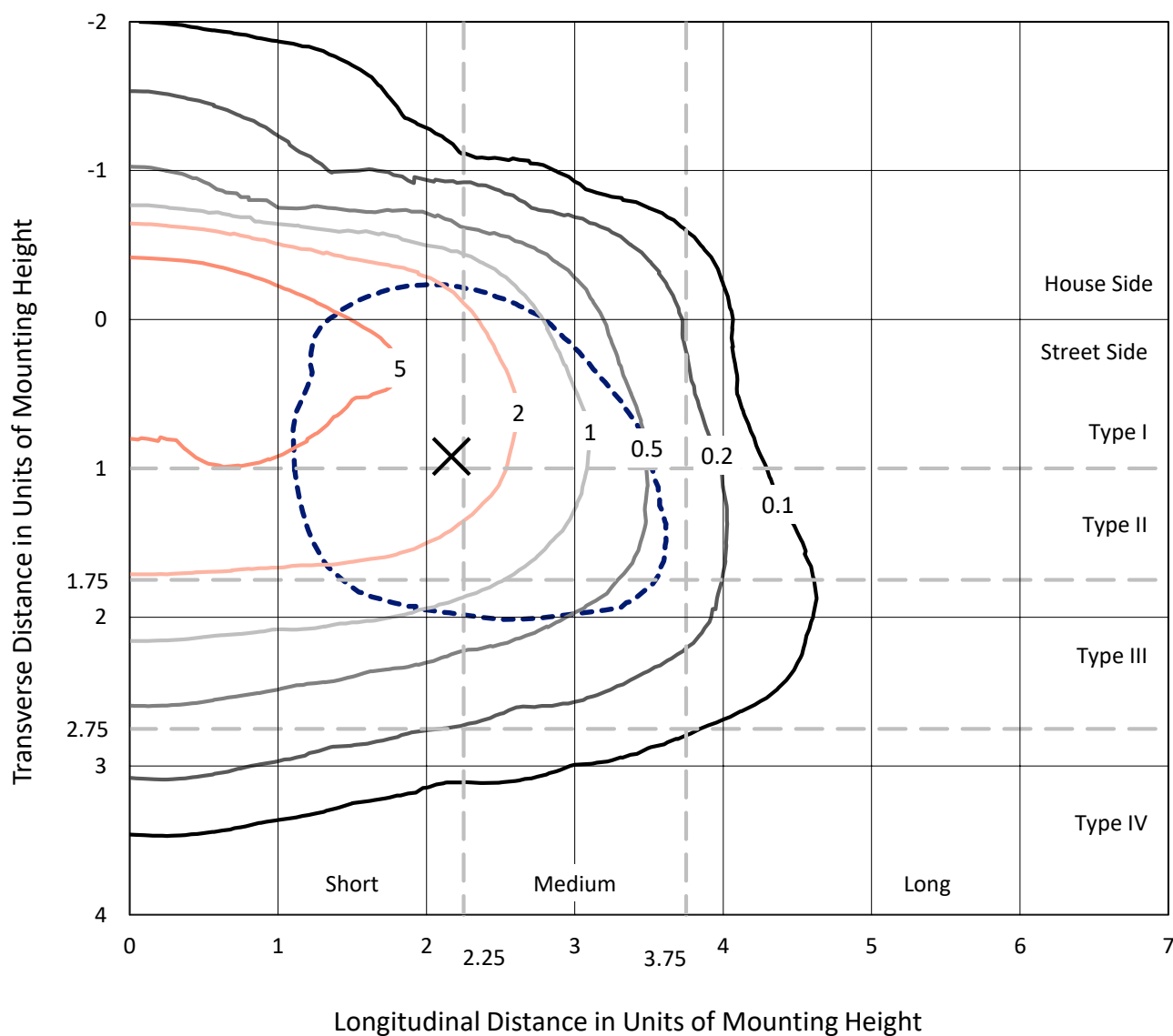
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CATALOG NUMBER: VXS-E02-LED-E1-SL3-7050

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

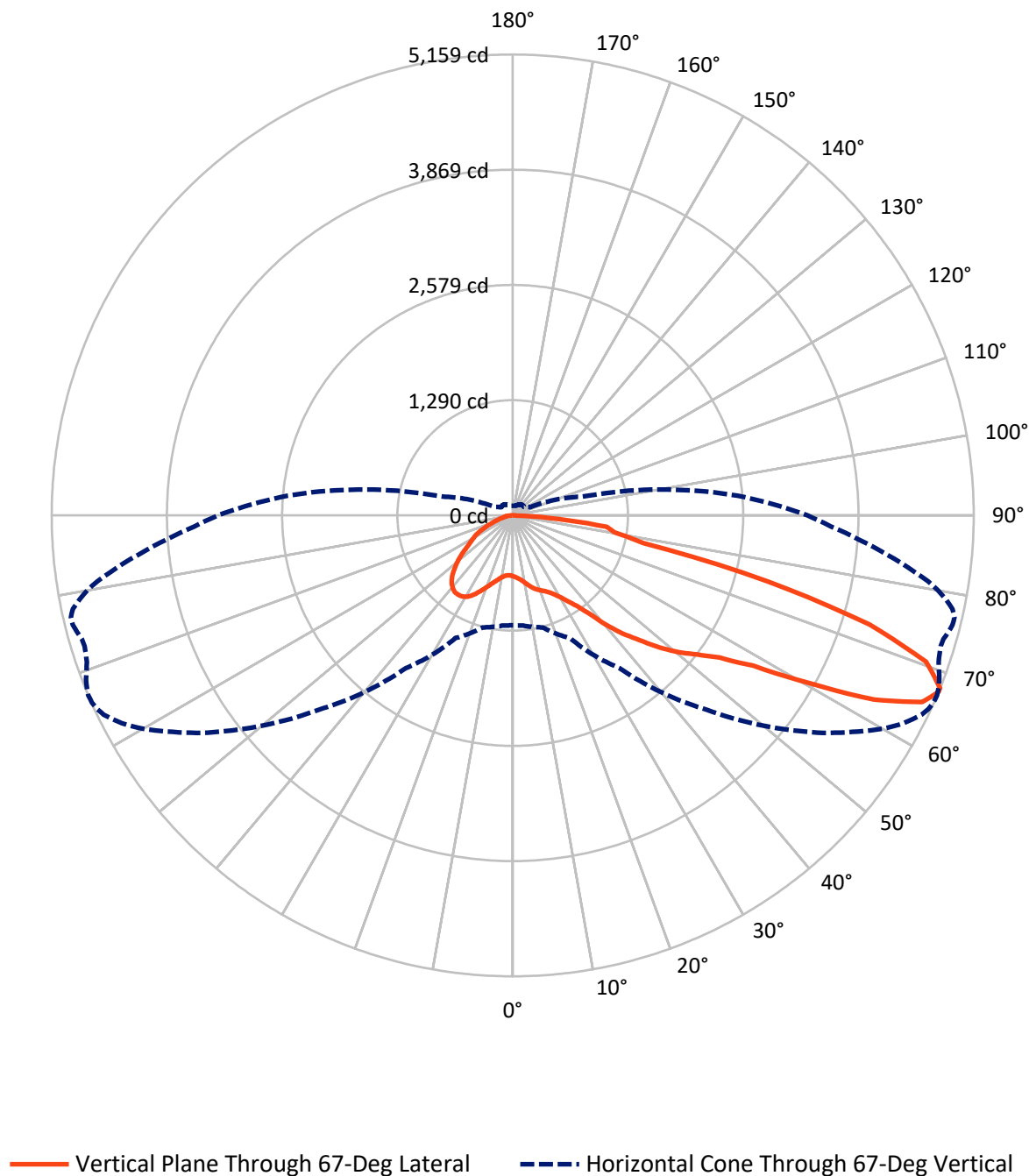


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1437.9   | 0.0    | 1437.9 |
|                    | % Fixture | 23.1     | 0.0    | 23.1   |
| <b>Street Side</b> | Lumens    | 4793.0   | 0.0    | 4793.0 |
|                    | % Fixture | 76.9     | 0.0    | 76.9   |
| <b>Total</b>       | Lumens    | 6230.8   | 0.0    | 6230.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.8   | 1.1       |
| 10°-20°   | 232.4  | 3.7       |
| 20°-30°   | 410.3  | 6.6       |
| 30°-40°   | 588.9  | 9.5       |
| 40°-50°   | 894.5  | 14.4      |
| 50°-60°   | 1316.9 | 21.1      |
| 60°-70°   | 1750.2 | 28.1      |
| 70°-80°   | 856.2  | 13.7      |
| 80°-90°   | 113.7  | 1.8       |
| 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°    | 6230.8 | 100.0     |
| 0°-180°   | 6230.8 | 100.0     |

**Coefficient of Utilization**



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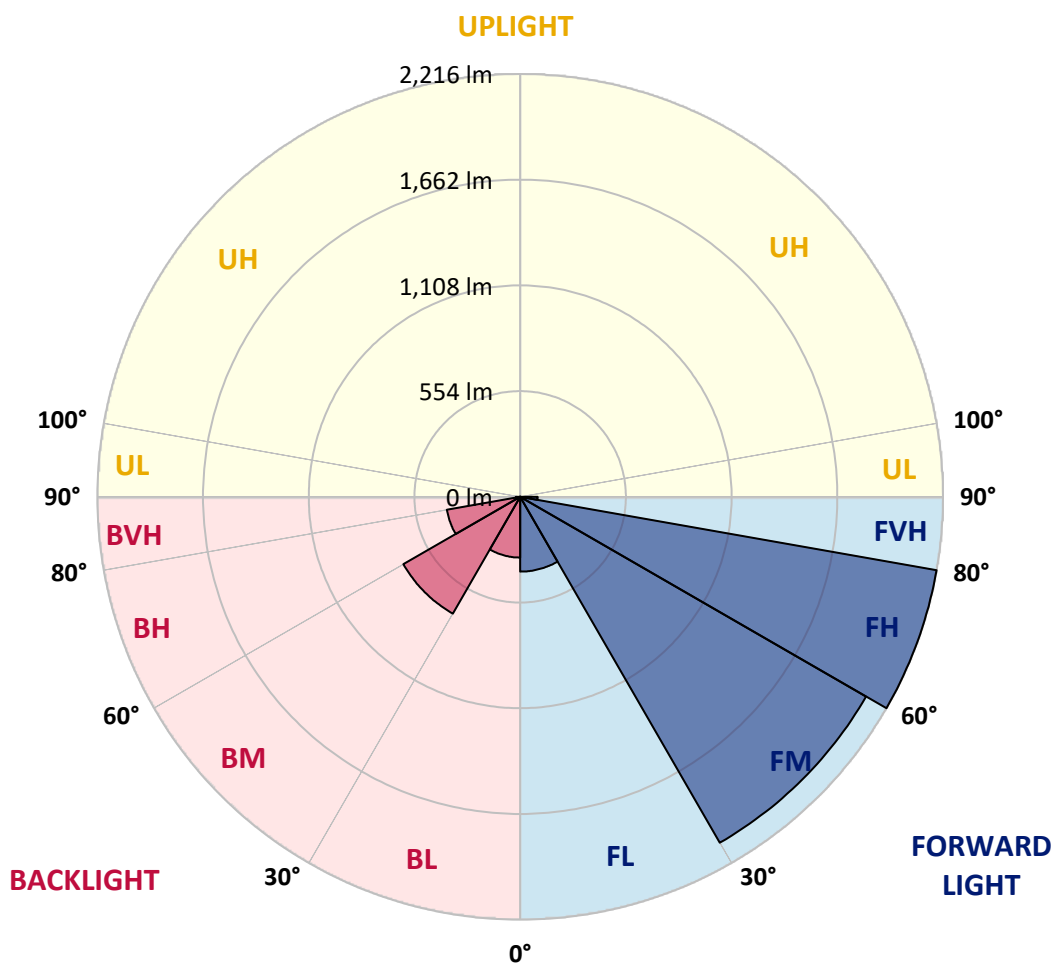
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 392.0  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 2093.4 | 33.6      |                         |      |         |
| FH   | (60°-80°)   | 2216.3 | 35.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 91.3   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 318.4  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 706.9  | 11.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 390.1  | 6.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 22.4   | 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°    | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  |
| 2.5°  | 712.8  | 713.5  | 712.1  | 711.4  | 707.4  | 703.2  | 700.5  | 697.1  | 697.1  | 697.1  | 695.8  |
| 5°    | 753.2  | 750.5  | 752.4  | 747.7  | 739.5  | 731.9  | 724.5  | 718.2  | 716.9  | 716.9  | 714.2  |
| 7.5°  | 801.8  | 798.3  | 796.9  | 790.1  | 777.8  | 766.8  | 751.8  | 745.6  | 742.2  | 740.8  | 739.5  |
| 10°   | 860.5  | 860.5  | 851.7  | 840.0  | 823.6  | 804.5  | 788.1  | 777.1  | 776.4  | 776.4  | 770.3  |
| 12.5° | 920.7  | 922.2  | 910.5  | 898.9  | 872.2  | 846.8  | 827.8  | 815.4  | 814.7  | 812.0  | 808.6  |
| 15°   | 976.2  | 972.7  | 965.2  | 948.1  | 918.8  | 888.6  | 864.7  | 852.3  | 849.6  | 846.8  | 844.9  |
| 17.5° | 1022.0 | 1018.5 | 1009.0 | 987.2  | 956.4  | 920.7  | 891.3  | 878.3  | 877.0  | 875.6  | 872.8  |
| 20°   | 1050.8 | 1048.0 | 1034.3 | 1009.0 | 976.9  | 940.6  | 909.1  | 900.2  | 897.5  | 897.5  | 896.2  |
| 22.5° | 1067.2 | 1063.0 | 1043.2 | 1009.6 | 978.2  | 951.5  | 925.6  | 920.1  | 918.0  | 918.8  | 918.8  |
| 25°   | 1075.3 | 1071.9 | 1043.9 | 996.0  | 965.9  | 958.3  | 947.5  | 944.0  | 944.7  | 945.4  | 946.7  |
| 27.5° | 1076.7 | 1071.9 | 1039.1 | 978.2  | 950.2  | 971.4  | 978.9  | 984.4  | 984.4  | 987.2  | 991.9  |
| 30°   | 1066.4 | 1061.0 | 1029.5 | 964.6  | 943.3  | 997.4  | 1027.5 | 1041.9 | 1047.4 | 1045.9 | 1056.9 |
| 32.5° | 1048.7 | 1045.3 | 1020.0 | 964.6  | 962.5  | 1048.7 | 1102.1 | 1122.6 | 1125.3 | 1126.6 | 1139.0 |
| 35°   | 1042.5 | 1041.9 | 1030.9 | 997.4  | 1022.0 | 1139.0 | 1220.4 | 1236.2 | 1239.6 | 1239.6 | 1248.4 |
| 37.5° | 1041.1 | 1044.6 | 1056.9 | 1059.0 | 1126.6 | 1273.1 | 1379.8 | 1403.7 | 1403.7 | 1410.6 | 1410.6 |
| 40°   | 1041.1 | 1048.7 | 1095.2 | 1150.6 | 1254.6 | 1447.5 | 1595.2 | 1622.6 | 1622.6 | 1630.2 | 1626.0 |
| 42.5° | 1081.6 | 1092.4 | 1169.1 | 1274.4 | 1416.1 | 1627.4 | 1797.1 | 1827.9 | 1829.8 | 1827.9 | 1834.0 |
| 45°   | 1160.8 | 1170.5 | 1263.5 | 1414.6 | 1582.3 | 1820.3 | 1989.9 | 2026.9 | 2019.4 | 2024.1 | 2026.2 |
| 47.5° | 1266.2 | 1281.2 | 1387.3 | 1567.9 | 1744.4 | 1998.9 | 2206.1 | 2239.7 | 2236.9 | 2239.0 | 2230.1 |
| 50°   | 1378.4 | 1394.1 | 1512.4 | 1719.8 | 1905.8 | 2142.5 | 2379.9 | 2429.8 | 2425.1 | 2428.5 | 2433.3 |
| 52.5° | 1477.6 | 1487.2 | 1601.5 | 1834.0 | 2028.3 | 2276.6 | 2513.3 | 2575.5 | 2586.4 | 2587.9 | 2591.3 |
| 55°   | 1536.4 | 1548.1 | 1652.7 | 1890.8 | 2117.2 | 2407.9 | 2665.8 | 2760.2 | 2781.5 | 2786.9 | 2802.0 |
| 57.5° | 1557.0 | 1569.2 | 1664.4 | 1899.0 | 2165.8 | 2531.1 | 2878.5 | 3044.8 | 3062.6 | 3092.0 | 3139.9 |
| 60°   | 1556.3 | 1569.2 | 1652.0 | 1880.5 | 2215.0 | 2683.6 | 3209.6 | 3488.1 | 3578.3 | 3608.5 | 3676.9 |
| 62.5° | 1492.6 | 1507.7 | 1591.8 | 1824.5 | 2277.9 | 2878.5 | 3702.2 | 4130.5 | 4246.7 | 4301.5 | 4375.3 |
| 65°   | 1353.1 | 1364.0 | 1442.7 | 1682.2 | 2260.2 | 3070.8 | 4114.0 | 4648.3 | 4754.3 | 4834.3 | 4966.3 |
| 67°   | 1229.2 | 1236.2 | 1297.7 | 1513.9 | 2086.4 | 3077.6 | 4243.9 | 4776.9 | 4869.2 | 4954.0 | 5090.2 |
| 67.5° | 1197.8 | 1212.1 | 1260.1 | 1462.6 | 2021.5 | 3038.7 | 4235.1 | 4757.0 | 4851.4 | 4939.7 | 5083.3 |
| 70°   | 974.8  | 995.3  | 1019.3 | 1155.4 | 1589.1 | 2556.4 | 3921.1 | 4413.6 | 4496.4 | 4578.4 | 4779.0 |
| 72.5° | 601.3  | 638.2  | 643.0  | 729.2  | 1034.3 | 1766.9 | 3172.7 | 3722.1 | 3784.2 | 3843.1 | 4048.3 |
| 75°   | 354.3  | 359.8  | 376.9  | 446.7  | 606.7  | 1056.2 | 2128.8 | 2765.0 | 2822.5 | 2851.2 | 3011.9 |
| 77.5° | 197.7  | 203.2  | 217.5  | 277.7  | 466.5  | 711.4  | 1239.6 | 1624.7 | 1659.6 | 1695.9 | 1669.8 |
| 80°   | 82.1   | 89.6   | 96.5   | 112.2  | 218.2  | 561.7  | 852.3  | 1033.0 | 1055.5 | 1076.7 | 1103.4 |
| 82.5° | 39.7   | 42.4   | 52.0   | 59.5   | 79.4   | 230.6  | 668.3  | 895.4  | 922.2  | 953.0  | 1015.1 |
| 85°   | 18.4   | 20.5   | 28.7   | 34.2   | 38.3   | 58.1   | 223.7  | 435.8  | 472.6  | 479.5  | 491.8  |
| 87.5° | 1.3    | 1.3    | 3.4    | 4.8    | 6.8    | 7.6    | 23.2   | 32.8   | 36.9   | 33.5   | 42.4   |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  |
| 2.5°  | 695.0  | 694.3  | 693.0  | 693.0  | 692.2  | 692.2  | 692.2  | 690.9  | 690.9  | 690.9  | 690.3  |
| 5°    | 713.5  | 712.8  | 710.8  | 710.8  | 709.4  | 709.4  | 707.4  | 706.6  | 705.3  | 705.3  | 704.6  |
| 7.5°  | 737.4  | 736.8  | 734.0  | 734.0  | 731.9  | 731.3  | 729.9  | 727.9  | 727.9  | 726.5  | 725.1  |
| 10°   | 770.3  | 768.2  | 767.6  | 764.1  | 764.8  | 763.4  | 762.1  | 760.0  | 758.7  | 757.3  | 755.9  |
| 12.5° | 807.3  | 807.3  | 803.8  | 801.8  | 803.1  | 801.8  | 799.0  | 798.3  | 796.3  | 796.3  | 794.2  |
| 15°   | 842.1  | 842.1  | 840.7  | 838.0  | 838.7  | 836.6  | 836.0  | 834.6  | 831.8  | 832.5  | 831.8  |
| 17.5° | 872.2  | 872.2  | 870.2  | 868.8  | 868.8  | 866.7  | 867.4  | 866.0  | 864.7  | 863.9  | 862.0  |
| 20°   | 896.2  | 896.2  | 894.7  | 893.4  | 894.1  | 894.1  | 892.0  | 892.0  | 892.0  | 890.7  | 890.7  |
| 22.5° | 919.4  | 920.1  | 920.1  | 920.1  | 920.7  | 921.5  | 920.7  | 922.2  | 921.5  | 922.8  | 922.8  |
| 25°   | 950.2  | 952.2  | 953.6  | 953.6  | 957.0  | 957.7  | 958.3  | 960.4  | 960.4  | 962.5  | 963.2  |
| 27.5° | 996.0  | 997.4  | 1002.8 | 1004.2 | 1004.9 | 1010.4 | 1011.1 | 1013.8 | 1016.5 | 1017.2 | 1017.9 |
| 30°   | 1059.0 | 1062.4 | 1066.4 | 1069.2 | 1069.2 | 1076.1 | 1078.8 | 1077.4 | 1085.0 | 1086.9 | 1089.7 |
| 32.5° | 1143.1 | 1145.8 | 1149.9 | 1152.6 | 1155.4 | 1158.9 | 1159.5 | 1162.9 | 1169.1 | 1174.5 | 1171.1 |
| 35°   | 1249.1 | 1256.0 | 1249.1 | 1256.7 | 1258.7 | 1263.5 | 1262.1 | 1266.2 | 1268.9 | 1271.0 | 1270.4 |
| 37.5° | 1403.0 | 1399.6 | 1398.2 | 1395.5 | 1390.7 | 1407.2 | 1399.0 | 1398.2 | 1394.1 | 1405.8 | 1398.2 |
| 40°   | 1605.5 | 1607.6 | 1609.6 | 1598.7 | 1592.5 | 1592.5 | 1590.5 | 1582.9 | 1579.5 | 1589.7 | 1588.4 |
| 42.5° | 1816.9 | 1819.0 | 1809.3 | 1802.5 | 1786.8 | 1784.8 | 1775.1 | 1773.2 | 1769.7 | 1775.1 | 1769.7 |
| 45°   | 2009.1 | 2010.5 | 1989.3 | 1992.7 | 1980.4 | 1982.5 | 1967.4 | 1973.6 | 1965.3 | 1970.8 | 1981.0 |
| 47.5° | 2223.9 | 2226.6 | 2208.2 | 2215.8 | 2203.4 | 2195.9 | 2195.2 | 2199.3 | 2190.4 | 2195.9 | 2198.7 |
| 50°   | 2418.9 | 2415.4 | 2405.9 | 2407.9 | 2402.5 | 2403.8 | 2395.6 | 2403.1 | 2392.8 | 2403.8 | 2402.5 |
| 52.5° | 2591.9 | 2587.9 | 2585.8 | 2592.6 | 2587.9 | 2587.9 | 2583.0 | 2586.4 | 2587.9 | 2604.2 | 2607.7 |
| 55°   | 2802.0 | 2805.4 | 2808.8 | 2821.1 | 2826.5 | 2817.7 | 2826.5 | 2843.7 | 2844.4 | 2883.3 | 2904.6 |
| 57.5° | 3139.2 | 3163.1 | 3175.4 | 3183.0 | 3215.1 | 3211.7 | 3232.2 | 3273.3 | 3277.4 | 3367.7 | 3420.3 |
| 60°   | 3727.5 | 3769.9 | 3810.3 | 3788.4 | 3853.4 | 3873.2 | 3885.5 | 3962.2 | 3986.1 | 4071.6 | 4117.4 |
| 62.5° | 4470.4 | 4475.2 | 4538.1 | 4518.2 | 4555.2 | 4546.3 | 4561.3 | 4596.3 | 4627.8 | 4698.2 | 4741.2 |
| 65°   | 4988.9 | 5011.5 | 5036.2 | 5010.8 | 5010.2 | 4980.0 | 4960.8 | 4960.2 | 4979.4 | 4994.4 | 5042.3 |
| 67°   | 5129.8 | 5152.4 | 5158.5 | 5140.1 | 5113.5 | 5075.1 | 5039.6 | 5021.0 | 5008.8 | 5015.6 | 5045.7 |
| 67.5° | 5128.5 | 5149.6 | 5157.2 | 5139.4 | 5102.5 | 5070.4 | 5032.7 | 5011.5 | 4995.1 | 4998.5 | 5023.8 |
| 70°   | 4837.1 | 4882.9 | 4907.6 | 4913.0 | 4908.2 | 4852.1 | 4820.0 | 4800.8 | 4787.2 | 4753.6 | 4751.5 |
| 72.5° | 4098.2 | 4153.7 | 4172.8 | 4203.6 | 4217.3 | 4134.5 | 4099.6 | 4120.8 | 4073.0 | 3966.9 | 3971.7 |
| 75°   | 3009.2 | 3013.4 | 2949.0 | 2936.7 | 2890.9 | 2703.4 | 2647.4 | 2596.1 | 2514.0 | 2386.0 | 2265.6 |
| 77.5° | 1568.6 | 1567.9 | 1494.0 | 1456.4 | 1401.7 | 1288.8 | 1283.3 | 1191.6 | 1127.4 | 1010.4 | 968.0  |
| 80°   | 1114.3 | 1132.1 | 1156.8 | 1169.1 | 1149.9 | 1106.1 | 1045.9 | 980.9  | 906.4  | 833.2  | 745.6  |
| 82.5° | 1036.4 | 1047.4 | 1060.3 | 1012.4 | 985.7  | 924.1  | 878.3  | 783.9  | 731.3  | 647.8  | 559.6  |
| 85°   | 504.1  | 537.7  | 511.7  | 481.6  | 471.3  | 368.7  | 356.4  | 297.6  | 270.3  | 222.3  | 207.3  |
| 87.5° | 32.1   | 39.7   | 35.5   | 32.1   | 28.1   | 15.8   | 21.2   | 15.0   | 15.8   | 11.6   | 10.3   |
| 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  |
| 2.5°  | 690.3  | 689.5  | 688.8  | 688.2  | 687.5  | 687.5  | 686.8  | 686.1  | 685.4  | 684.0  | 684.0  |
| 5°    | 703.2  | 703.2  | 702.6  | 701.1  | 701.1  | 699.8  | 697.7  | 697.1  | 697.1  | 695.8  | 694.3  |
| 7.5°  | 724.5  | 723.7  | 722.4  | 721.7  | 720.3  | 719.0  | 717.6  | 716.3  | 715.5  | 713.5  | 712.8  |
| 10°   | 756.6  | 755.2  | 751.8  | 750.5  | 749.7  | 748.4  | 747.0  | 745.6  | 743.6  | 742.2  | 741.6  |
| 12.5° | 792.8  | 792.1  | 789.4  | 790.8  | 787.4  | 786.0  | 784.7  | 781.2  | 782.6  | 779.8  | 778.4  |
| 15°   | 829.1  | 829.7  | 828.4  | 828.4  | 825.7  | 823.6  | 822.3  | 819.5  | 818.9  | 817.5  | 816.1  |
| 17.5° | 861.2  | 862.6  | 860.5  | 859.2  | 857.8  | 856.5  | 853.7  | 851.0  | 851.0  | 848.3  | 846.8  |
| 20°   | 890.7  | 892.0  | 891.3  | 889.9  | 887.9  | 887.3  | 885.9  | 883.8  | 883.8  | 882.5  | 880.4  |
| 22.5° | 924.1  | 924.9  | 924.9  | 924.1  | 922.2  | 922.8  | 921.5  | 919.4  | 920.1  | 917.3  | 917.3  |
| 25°   | 964.6  | 965.9  | 967.3  | 968.0  | 966.6  | 967.3  | 965.9  | 964.6  | 963.8  | 964.6  | 963.8  |
| 27.5° | 1020.0 | 1021.3 | 1025.4 | 1022.0 | 1025.4 | 1026.1 | 1024.0 | 1021.3 | 1023.4 | 1026.8 | 1024.8 |
| 30°   | 1093.2 | 1091.8 | 1097.2 | 1097.9 | 1097.2 | 1097.9 | 1096.6 | 1094.5 | 1095.9 | 1102.1 | 1098.7 |
| 32.5° | 1175.2 | 1177.9 | 1179.4 | 1180.7 | 1182.8 | 1185.5 | 1183.4 | 1181.3 | 1184.8 | 1182.8 | 1187.6 |
| 35°   | 1274.4 | 1280.6 | 1282.6 | 1280.6 | 1282.0 | 1286.7 | 1286.0 | 1286.7 | 1293.6 | 1286.7 | 1295.6 |
| 37.5° | 1399.6 | 1405.8 | 1410.6 | 1407.8 | 1411.2 | 1411.2 | 1416.7 | 1431.7 | 1422.2 | 1434.5 | 1444.0 |
| 40°   | 1581.6 | 1591.2 | 1591.8 | 1591.2 | 1594.6 | 1598.7 | 1604.1 | 1620.5 | 1609.6 | 1622.6 | 1631.5 |
| 42.5° | 1769.0 | 1780.6 | 1784.8 | 1777.9 | 1785.4 | 1794.3 | 1795.0 | 1809.3 | 1810.1 | 1812.1 | 1816.9 |
| 45°   | 1980.4 | 1990.7 | 1998.9 | 1995.4 | 1996.2 | 2007.8 | 2005.0 | 2018.7 | 2008.4 | 2008.4 | 2011.2 |
| 47.5° | 2205.5 | 2215.0 | 2220.5 | 2226.0 | 2219.2 | 2229.4 | 2234.2 | 2231.4 | 2219.2 | 2216.4 | 2200.0 |
| 50°   | 2410.7 | 2418.9 | 2427.0 | 2442.2 | 2441.5 | 2446.2 | 2449.6 | 2437.3 | 2434.6 | 2419.6 | 2401.0 |
| 52.5° | 2628.2 | 2649.4 | 2667.9 | 2699.4 | 2704.1 | 2720.5 | 2714.4 | 2693.9 | 2690.5 | 2665.8 | 2641.2 |
| 55°   | 2931.2 | 2992.1 | 3018.8 | 3067.4 | 3100.2 | 3099.5 | 3085.8 | 3082.4 | 3056.5 | 3007.2 | 2977.7 |
| 57.5° | 3458.7 | 3553.8 | 3599.6 | 3662.5 | 3672.7 | 3666.6 | 3648.8 | 3617.4 | 3572.2 | 3489.4 | 3436.1 |
| 60°   | 4220.0 | 4278.9 | 4332.2 | 4347.3 | 4354.8 | 4343.2 | 4280.9 | 4211.1 | 4122.9 | 4008.6 | 3913.6 |
| 62.5° | 4795.3 | 4855.5 | 4895.2 | 4889.0 | 4841.9 | 4782.4 | 4691.4 | 4574.4 | 4450.6 | 4322.6 | 4180.3 |
| 65°   | 5088.1 | 5113.5 | 5107.3 | 5059.4 | 4978.7 | 4874.7 | 4742.0 | 4597.6 | 4451.9 | 4300.7 | 4153.0 |
| 67°   | 5072.3 | 5073.1 | 5031.3 | 4938.3 | 4835.0 | 4704.4 | 4542.2 | 4384.9 | 4213.9 | 4055.1 | 3879.4 |
| 67.5° | 5044.4 | 5041.6 | 4983.4 | 4881.6 | 4770.1 | 4635.2 | 4466.9 | 4304.1 | 4127.0 | 3966.9 | 3785.0 |
| 70°   | 4726.9 | 4688.6 | 4557.3 | 4394.5 | 4239.2 | 4057.2 | 3880.7 | 3694.0 | 3494.2 | 3356.7 | 3147.4 |
| 72.5° | 3884.1 | 3754.8 | 3528.4 | 3358.1 | 3191.9 | 2953.8 | 2843.7 | 2611.8 | 2471.5 | 2383.9 | 2226.0 |
| 75°   | 2249.2 | 2141.1 | 1966.0 | 1806.6 | 1725.9 | 1585.0 | 1517.9 | 1347.7 | 1312.0 | 1310.7 | 1256.0 |
| 77.5° | 858.5  | 749.0  | 636.2  | 512.3  | 435.8  | 346.1  | 305.1  | 273.0  | 248.3  | 265.4  | 240.8  |
| 80°   | 643.7  | 529.4  | 413.9  | 301.0  | 214.8  | 158.7  | 136.2  | 125.9  | 119.7  | 114.9  | 111.5  |
| 82.5° | 479.5  | 378.3  | 293.5  | 191.5  | 134.1  | 101.2  | 87.6   | 82.1   | 79.4   | 74.6   | 70.5   |
| 85°   | 162.2  | 129.9  | 102.6  | 71.2   | 56.1   | 45.8   | 42.4   | 41.0   | 39.0   | 35.5   | 33.5   |
| 87.5° | 8.9    | 8.2    | 8.9    | 6.8    | 8.2    | 6.8    | 7.6    | 7.6    | 7.6    | 6.8    | 6.8    |
| 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):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6  | 680.6 | 680.6 | 680.6 | 680.6 |
| 2.5°  | 683.4  | 683.4  | 683.4  | 682.0  | 680.0  | 675.9  | 671.7  | 668.3 | 664.9 | 662.9 | 661.5 |
| 5°    | 693.7  | 692.2  | 691.6  | 690.9  | 686.1  | 677.9  | 670.4  | 663.5 | 656.7 | 651.2 | 649.2 |
| 7.5°  | 712.1  | 709.4  | 708.7  | 706.6  | 700.5  | 688.2  | 677.2  | 666.3 | 656.7 | 649.2 | 645.8 |
| 10°   | 740.2  | 740.2  | 736.1  | 733.4  | 726.5  | 710.1  | 694.3  | 680.0 | 666.9 | 658.8 | 656.7 |
| 12.5° | 775.8  | 775.8  | 772.3  | 770.3  | 762.1  | 740.8  | 721.7  | 704.6 | 692.2 | 684.0 | 683.4 |
| 15°   | 812.6  | 812.0  | 809.2  | 806.5  | 797.6  | 775.0  | 755.9  | 740.8 | 730.6 | 721.0 | 718.2 |
| 17.5° | 845.5  | 845.5  | 842.1  | 839.4  | 830.5  | 811.3  | 794.2  | 783.2 | 771.6 | 751.8 | 736.8 |
| 20°   | 878.3  | 879.1  | 876.3  | 873.6  | 866.0  | 849.6  | 842.1  | 831.2 | 805.2 | 762.1 | 726.5 |
| 22.5° | 914.6  | 917.3  | 913.9  | 911.2  | 905.0  | 898.1  | 895.4  | 869.4 | 814.7 | 745.6 | 693.7 |
| 25°   | 961.1  | 965.9  | 961.8  | 960.4  | 957.0  | 959.1  | 950.9  | 890.7 | 801.0 | 710.1 | 645.1 |
| 27.5° | 1024.8 | 1024.8 | 1025.4 | 1025.4 | 1024.0 | 1031.6 | 1001.5 | 891.3 | 771.0 | 664.2 | 586.9 |
| 30°   | 1099.3 | 1103.4 | 1102.1 | 1102.1 | 1107.5 | 1112.3 | 1029.5 | 876.3 | 732.6 | 607.5 | 515.8 |
| 32.5° | 1188.9 | 1192.3 | 1193.7 | 1187.6 | 1209.4 | 1184.8 | 1039.8 | 848.9 | 685.4 | 537.0 | 431.0 |
| 35°   | 1297.0 | 1301.8 | 1305.2 | 1305.9 | 1320.2 | 1247.8 | 1034.3 | 808.6 | 617.7 | 448.7 | 337.9 |
| 37.5° | 1437.9 | 1447.5 | 1455.0 | 1458.4 | 1459.2 | 1301.1 | 1019.3 | 755.2 | 529.4 | 350.3 | 251.7 |
| 40°   | 1625.4 | 1635.6 | 1633.6 | 1640.4 | 1601.5 | 1332.5 | 985.1  | 677.9 | 420.0 | 257.2 | 194.3 |
| 42.5° | 1805.9 | 1807.4 | 1810.1 | 1803.9 | 1724.6 | 1349.0 | 937.2  | 583.5 | 314.7 | 192.2 | 166.2 |
| 45°   | 2007.8 | 1996.2 | 1983.1 | 1973.6 | 1838.1 | 1355.1 | 871.5  | 468.6 | 222.3 | 161.5 | 153.9 |
| 47.5° | 2197.2 | 2181.5 | 2154.8 | 2127.5 | 1939.4 | 1345.6 | 787.4  | 350.9 | 169.0 | 147.8 | 145.7 |
| 50°   | 2383.3 | 2353.9 | 2316.3 | 2284.8 | 2036.5 | 1331.2 | 694.3  | 253.1 | 147.8 | 140.9 | 138.9 |
| 52.5° | 2613.8 | 2564.6 | 2515.3 | 2474.3 | 2163.0 | 1308.6 | 596.5  | 192.2 | 138.9 | 135.4 | 132.7 |
| 55°   | 2929.8 | 2861.5 | 2782.1 | 2724.7 | 2334.7 | 1274.4 | 493.9  | 162.8 | 134.7 | 132.0 | 127.9 |
| 57.5° | 3367.7 | 3265.1 | 3175.4 | 3081.8 | 2569.3 | 1239.6 | 405.7  | 151.2 | 134.1 | 129.9 | 124.5 |
| 60°   | 3815.0 | 3691.9 | 3577.7 | 3443.6 | 2808.8 | 1204.7 | 344.0  | 149.8 | 136.2 | 129.9 | 121.8 |
| 62.5° | 4047.7 | 3920.4 | 3782.9 | 3646.7 | 2912.1 | 1122.6 | 301.7  | 151.8 | 140.9 | 132.0 | 121.8 |
| 65°   | 3994.3 | 3839.0 | 3699.5 | 3560.6 | 2792.3 | 967.3  | 255.1  | 154.6 | 150.5 | 140.2 | 123.8 |
| 67°   | 3726.1 | 3564.0 | 3429.9 | 3297.2 | 2525.6 | 809.9  | 218.9  | 157.3 | 160.7 | 149.8 | 127.9 |
| 67.5° | 3631.7 | 3469.6 | 3337.6 | 3208.3 | 2446.9 | 777.1  | 210.1  | 158.7 | 162.8 | 152.5 | 129.3 |
| 70°   | 3011.3 | 2892.2 | 2752.0 | 2652.1 | 1981.0 | 575.3  | 172.4  | 161.5 | 175.1 | 168.3 | 135.4 |
| 72.5° | 2167.2 | 2053.6 | 1948.2 | 1892.8 | 1459.2 | 402.3  | 145.0  | 158.7 | 182.7 | 177.2 | 138.1 |
| 75°   | 1152.0 | 1145.2 | 1106.8 | 1134.2 | 903.0  | 262.7  | 127.9  | 148.4 | 174.4 | 162.2 | 128.6 |
| 77.5° | 232.5  | 239.4  | 281.1  | 277.1  | 291.4  | 146.4  | 109.4  | 127.3 | 134.7 | 119.1 | 104.7 |
| 80°   | 108.1  | 106.0  | 103.9  | 105.4  | 103.3  | 93.7   | 88.9   | 99.9  | 93.7  | 76.6  | 69.7  |
| 82.5° | 67.0   | 65.7   | 63.6   | 62.9   | 69.7   | 74.6   | 78.0   | 78.7  | 62.3  | 53.4  | 51.3  |
| 85°   | 32.1   | 32.1   | 31.5   | 32.8   | 41.0   | 60.9   | 65.7   | 58.1  | 41.8  | 38.3  | 36.3  |
| 87.5° | 6.1    | 6.1    | 6.8    | 6.1    | 8.2    | 14.4   | 16.4   | 19.2  | 15.8  | 16.4  | 18.4  |
| 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):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 680.6 | 680.6 | 680.6 |
| 2.5°  | 660.1 | 658.8 | 658.8 |
| 5°    | 646.4 | 645.8 | 645.8 |
| 7.5°  | 643.0 | 643.7 | 643.0 |
| 10°   | 656.1 | 655.3 | 658.0 |
| 12.5° | 684.8 | 686.8 | 686.1 |
| 15°   | 714.8 | 716.3 | 716.3 |
| 17.5° | 723.7 | 719.0 | 718.2 |
| 20°   | 700.5 | 691.6 | 689.5 |
| 22.5° | 656.7 | 640.3 | 640.9 |
| 25°   | 601.3 | 581.5 | 582.8 |
| 27.5° | 537.0 | 515.8 | 515.1 |
| 30°   | 459.7 | 436.5 | 424.8 |
| 32.5° | 366.6 | 338.7 | 338.7 |
| 35°   | 275.6 | 253.1 | 244.9 |
| 37.5° | 209.3 | 196.4 | 192.2 |
| 40°   | 174.4 | 168.3 | 166.9 |
| 42.5° | 158.7 | 156.7 | 156.0 |
| 45°   | 150.5 | 149.1 | 148.4 |
| 47.5° | 143.0 | 142.3 | 141.6 |
| 50°   | 137.5 | 136.8 | 136.2 |
| 52.5° | 132.7 | 131.3 | 130.7 |
| 55°   | 125.9 | 125.9 | 125.9 |
| 57.5° | 121.8 | 121.8 | 121.0 |
| 60°   | 117.6 | 117.0 | 117.0 |
| 62.5° | 114.2 | 112.8 | 113.6 |
| 65°   | 112.2 | 110.2 | 110.2 |
| 67°   | 110.8 | 106.7 | 106.7 |
| 67.5° | 110.8 | 105.4 | 105.4 |
| 70°   | 108.8 | 99.9  | 98.5  |
| 72.5° | 106.7 | 93.7  | 91.7  |
| 75°   | 101.2 | 88.9  | 86.8  |
| 77.5° | 86.8  | 79.4  | 78.0  |
| 80°   | 67.0  | 58.1  | 59.5  |
| 82.5° | 48.6  | 41.8  | 41.0  |
| 85°   | 34.9  | 30.1  | 30.1  |
| 87.5° | 18.4  | 15.8  | 16.4  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)