

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: STREETWORKS

Report Number: P151339

Luminaire Tested: **TMU-E02-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P151339  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-E02-LED-E-U-SL3-7030  
Description: TALON MEDIUM LED AREA 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: 5546.2 lumens  
Efficiency: N/A  
Efficacy: 106.5 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: 28.75 FT

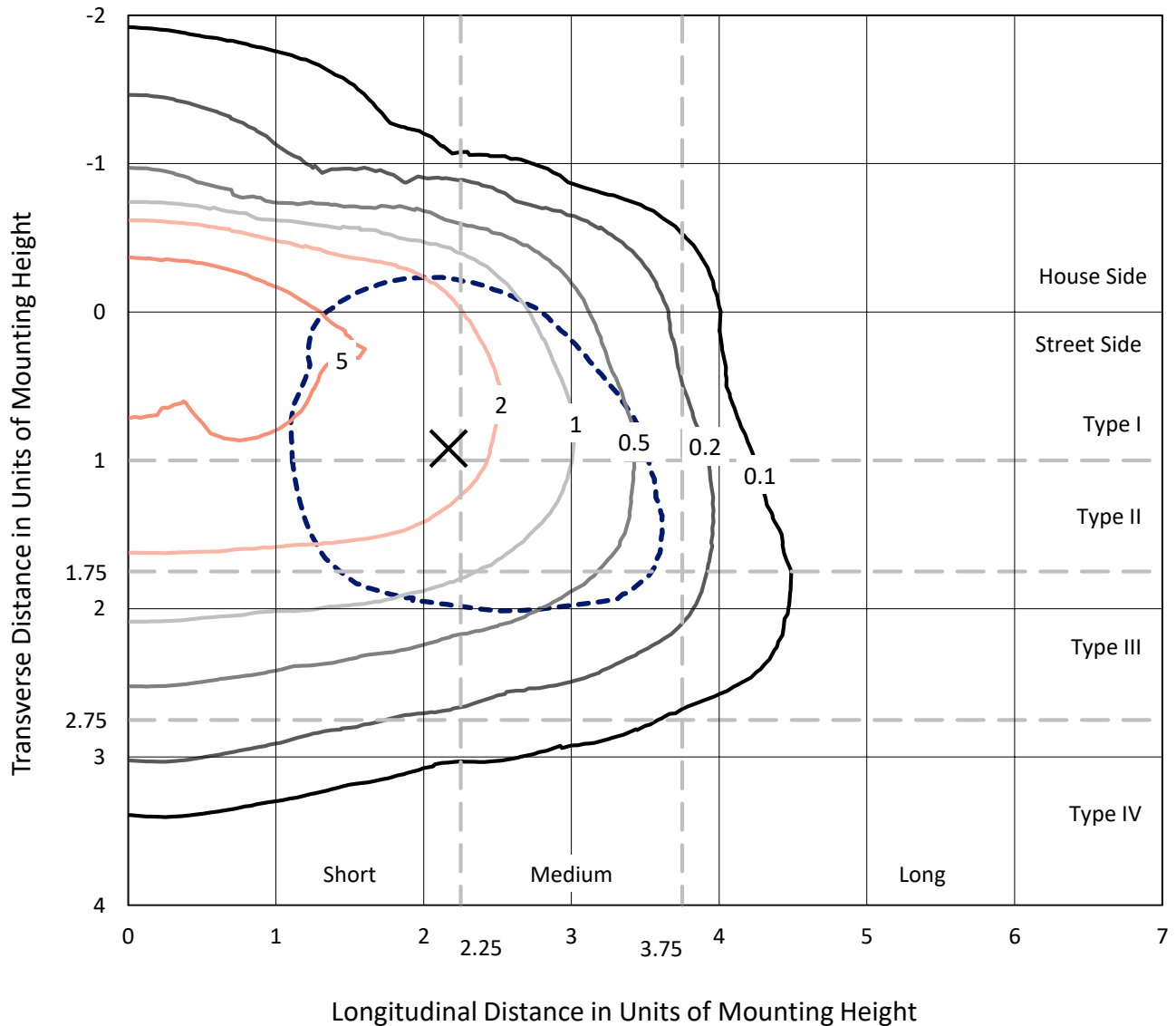


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

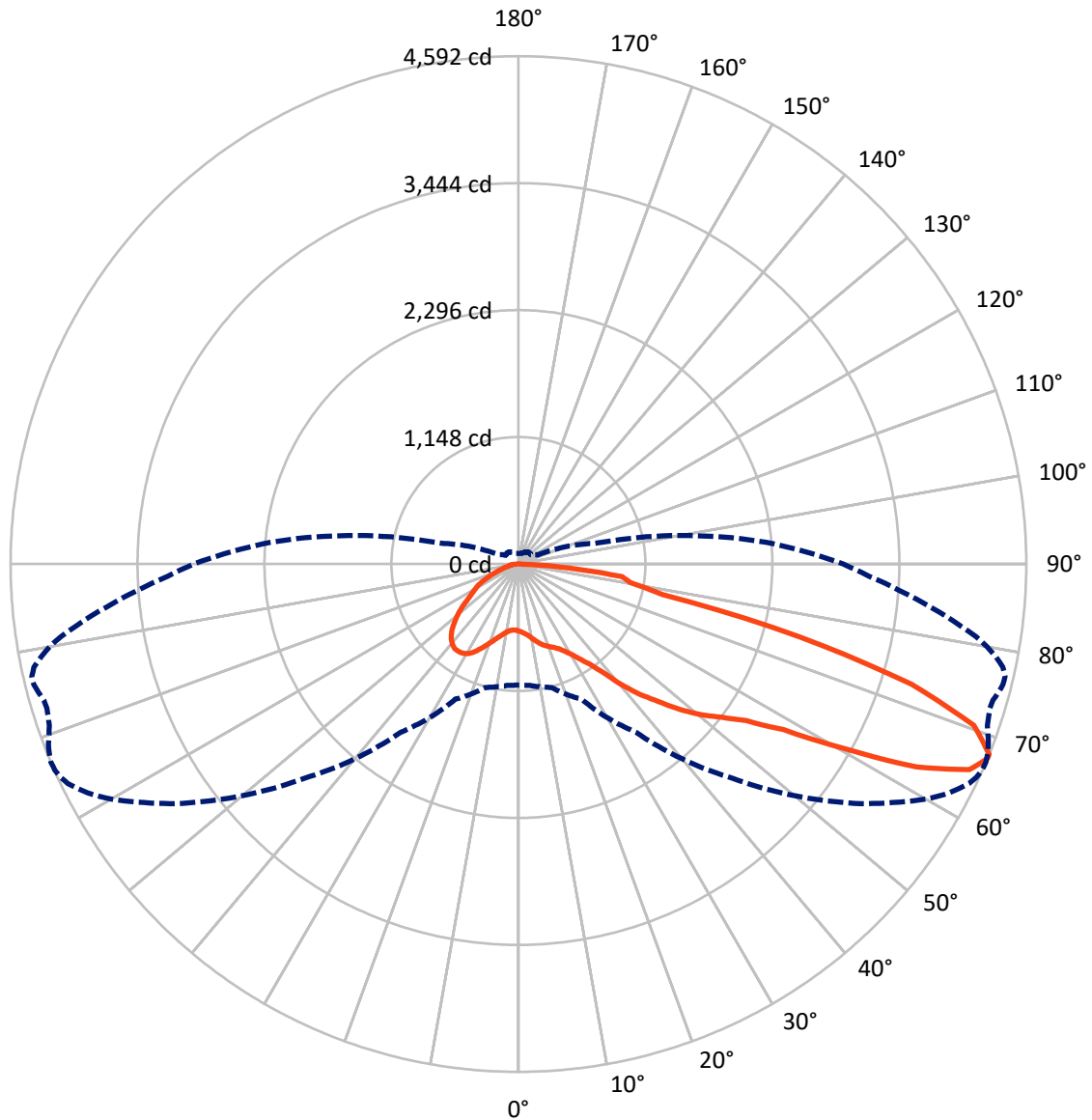


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1279.8   | 0.0    | 1279.8 |
|                    | % Fixture | 23.1     | 0.0    | 23.1   |
| <b>Street Side</b> | Lumens    | 4266.3   | 0.0    | 4266.3 |
|                    | % Fixture | 76.9     | 0.0    | 76.9   |
| <b>Total</b>       | Lumens    | 5546.2   | 0.0    | 5546.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.3   | 1.1       |
| 10°-20°   | 206.8  | 3.7       |
| 20°-30°   | 365.2  | 6.6       |
| 30°-40°   | 524.2  | 9.5       |
| 40°-50°   | 796.2  | 14.4      |
| 50°-60°   | 1172.2 | 21.1      |
| 60°-70°   | 1557.8 | 28.1      |
| 70°-80°   | 762.1  | 13.7      |
| 80°-90°   | 101.2  | 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°    | 5546.2 | 100.0     |
| 0°-180°   | 5546.2 | 100.0     |



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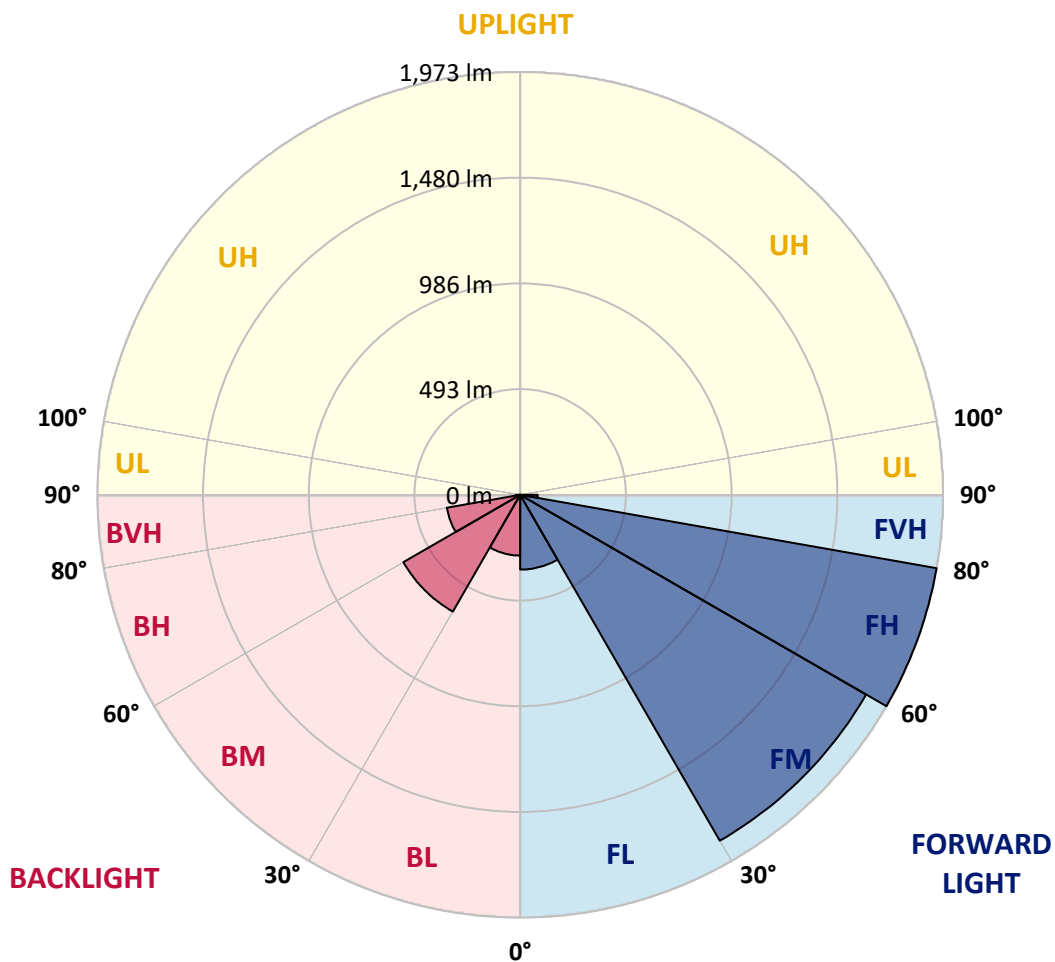
CATALOG NUMBER: TMU-E02-LED-E-U-SL3-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 348.9  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 1863.4 | 33.6      |                         |      |         |
| FH   | (60°-80°)   | 1972.7 | 35.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 81.3   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 283.5  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 629.2  | 11.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 347.3  | 6.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 19.9   | 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°    | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  |
| 2.5°  | 634.5  | 635.1  | 633.9  | 633.3  | 629.6  | 625.9  | 623.5  | 620.5  | 620.5  | 620.5  | 619.3  |
| 5°    | 670.4  | 668.0  | 669.8  | 665.5  | 658.2  | 651.5  | 644.8  | 639.3  | 638.1  | 638.1  | 635.7  |
| 7.5°  | 713.6  | 710.6  | 709.4  | 703.3  | 692.3  | 682.6  | 669.2  | 663.7  | 660.7  | 659.4  | 658.2  |
| 10°   | 766.0  | 766.0  | 758.1  | 747.7  | 733.1  | 716.1  | 701.5  | 691.7  | 691.1  | 691.1  | 685.6  |
| 12.5° | 819.6  | 820.8  | 810.4  | 800.1  | 776.3  | 753.8  | 736.8  | 725.8  | 725.2  | 722.8  | 719.7  |
| 15°   | 868.9  | 865.9  | 859.2  | 843.9  | 817.8  | 791.0  | 769.6  | 758.7  | 756.3  | 753.8  | 752.0  |
| 17.5° | 909.7  | 906.7  | 898.1  | 878.6  | 851.2  | 819.6  | 793.4  | 781.8  | 780.6  | 779.4  | 777.0  |
| 20°   | 935.3  | 932.8  | 920.7  | 898.1  | 869.5  | 837.2  | 809.2  | 801.3  | 798.9  | 798.9  | 797.7  |
| 22.5° | 949.9  | 946.2  | 928.6  | 898.7  | 870.7  | 847.0  | 823.8  | 819.0  | 817.1  | 817.8  | 817.8  |
| 25°   | 957.2  | 954.1  | 929.2  | 886.6  | 859.8  | 853.1  | 843.3  | 840.3  | 840.9  | 841.5  | 842.7  |
| 27.5° | 958.4  | 954.1  | 924.9  | 870.7  | 845.8  | 864.6  | 871.3  | 876.2  | 876.2  | 878.6  | 882.9  |
| 30°   | 949.3  | 944.4  | 916.4  | 858.5  | 839.7  | 887.8  | 914.6  | 927.4  | 932.2  | 931.0  | 940.8  |
| 32.5° | 933.4  | 930.4  | 907.9  | 858.5  | 856.7  | 933.4  | 980.9  | 999.2  | 1001.6 | 1002.9 | 1013.8 |
| 35°   | 928.0  | 927.4  | 917.6  | 887.8  | 909.7  | 1013.8 | 1086.3 | 1100.3 | 1103.3 | 1103.3 | 1111.2 |
| 37.5° | 926.7  | 929.8  | 940.8  | 942.6  | 1002.9 | 1133.2 | 1228.2 | 1249.5 | 1249.5 | 1255.6 | 1255.6 |
| 40°   | 926.7  | 933.4  | 974.8  | 1024.2 | 1116.7 | 1288.4 | 1420.0 | 1444.3 | 1444.3 | 1451.0 | 1447.4 |
| 42.5° | 962.7  | 972.4  | 1040.6 | 1134.4 | 1260.4 | 1448.6 | 1599.6 | 1627.0 | 1628.8 | 1627.0 | 1632.5 |
| 45°   | 1033.3 | 1041.8 | 1124.6 | 1259.2 | 1408.4 | 1620.3 | 1771.3 | 1804.2 | 1797.5 | 1801.7 | 1803.6 |
| 47.5° | 1127.1 | 1140.5 | 1234.8 | 1395.6 | 1552.7 | 1779.2 | 1963.7 | 1993.5 | 1991.1 | 1992.9 | 1985.0 |
| 50°   | 1226.9 | 1240.9 | 1346.3 | 1530.8 | 1696.4 | 1907.1 | 2118.4 | 2162.8 | 2158.6 | 2161.6 | 2165.9 |
| 52.5° | 1315.2 | 1323.7 | 1425.4 | 1632.5 | 1805.4 | 2026.4 | 2237.1 | 2292.5 | 2302.3 | 2303.5 | 2306.5 |
| 55°   | 1367.6 | 1377.9 | 1471.1 | 1683.0 | 1884.5 | 2143.3 | 2372.9 | 2456.9 | 2475.8 | 2480.7 | 2494.1 |
| 57.5° | 1385.9 | 1396.8 | 1481.5 | 1690.3 | 1927.8 | 2252.9 | 2562.3 | 2710.2 | 2726.0 | 2752.2 | 2794.9 |
| 60°   | 1385.2 | 1396.8 | 1470.5 | 1673.9 | 1971.6 | 2388.7 | 2857.0 | 3104.8 | 3185.2 | 3211.9 | 3272.8 |
| 62.5° | 1328.6 | 1342.0 | 1416.9 | 1623.9 | 2027.6 | 2562.3 | 3295.4 | 3676.5 | 3780.1 | 3828.8 | 3894.5 |
| 65°   | 1204.4 | 1214.1 | 1284.2 | 1497.3 | 2011.8 | 2733.4 | 3661.9 | 4137.5 | 4231.9 | 4303.1 | 4420.6 |
| 67°   | 1094.2 | 1100.3 | 1155.1 | 1347.5 | 1857.1 | 2739.4 | 3777.6 | 4252.0 | 4334.2 | 4409.7 | 4530.8 |
| 67.5° | 1066.2 | 1079.0 | 1121.6 | 1301.8 | 1799.3 | 2704.7 | 3769.7 | 4234.3 | 4318.3 | 4396.9 | 4524.7 |
| 70°   | 867.7  | 885.9  | 907.3  | 1028.4 | 1414.5 | 2275.5 | 3490.2 | 3928.6 | 4002.3 | 4075.4 | 4253.8 |
| 72.5° | 535.2  | 568.1  | 572.4  | 649.1  | 920.7  | 1572.8 | 2824.1 | 3313.0 | 3368.4 | 3420.8 | 3603.5 |
| 75°   | 315.4  | 320.3  | 335.5  | 397.6  | 540.1  | 940.1  | 1894.9 | 2461.2 | 2512.3 | 2537.9 | 2681.0 |
| 77.5° | 176.0  | 180.8  | 193.6  | 247.2  | 415.3  | 633.3  | 1103.3 | 1446.1 | 1477.2 | 1509.5 | 1486.3 |
| 80°   | 73.1   | 79.8   | 85.9   | 99.9   | 194.2  | 499.9  | 758.7  | 919.4  | 939.5  | 958.4  | 982.2  |
| 82.5° | 35.3   | 37.8   | 46.3   | 53.0   | 70.6   | 205.2  | 594.9  | 797.1  | 820.8  | 848.2  | 903.6  |
| 85°   | 16.4   | 18.3   | 25.6   | 30.4   | 34.1   | 51.8   | 199.1  | 387.9  | 420.8  | 426.8  | 437.8  |
| 87.5° | 1.2    | 1.2    | 3.0    | 4.3    | 6.1    | 6.7    | 20.7   | 29.2   | 32.9   | 29.8   | 37.8   |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  |
| 2.5°  | 618.6  | 618.0  | 616.8  | 616.8  | 616.2  | 616.2  | 616.2  | 615.0  | 615.0  | 615.0  | 614.4  |
| 5°    | 635.1  | 634.5  | 632.6  | 632.6  | 631.4  | 631.4  | 629.6  | 629.0  | 627.8  | 627.8  | 627.2  |
| 7.5°  | 656.4  | 655.8  | 653.3  | 653.3  | 651.5  | 650.9  | 649.7  | 647.9  | 647.9  | 646.7  | 645.4  |
| 10°   | 685.6  | 683.8  | 683.2  | 680.1  | 680.8  | 679.5  | 678.3  | 676.5  | 675.3  | 674.1  | 672.8  |
| 12.5° | 718.5  | 718.5  | 715.5  | 713.6  | 714.8  | 713.6  | 711.2  | 710.6  | 708.8  | 708.8  | 706.9  |
| 15°   | 749.6  | 749.6  | 748.3  | 745.9  | 746.5  | 744.7  | 744.1  | 742.9  | 740.4  | 741.0  | 740.4  |
| 17.5° | 776.3  | 776.3  | 774.5  | 773.3  | 773.3  | 771.5  | 772.1  | 770.9  | 769.6  | 769.0  | 767.2  |
| 20°   | 797.7  | 797.7  | 796.4  | 795.2  | 795.8  | 795.8  | 794.0  | 794.0  | 794.0  | 792.8  | 792.8  |
| 22.5° | 818.4  | 819.0  | 819.0  | 819.0  | 819.6  | 820.2  | 819.6  | 820.8  | 820.2  | 821.4  | 821.4  |
| 25°   | 845.8  | 847.6  | 848.8  | 848.8  | 851.9  | 852.5  | 853.1  | 854.9  | 854.9  | 856.7  | 857.3  |
| 27.5° | 886.6  | 887.8  | 892.6  | 893.9  | 894.5  | 899.3  | 900.0  | 902.4  | 904.8  | 905.4  | 906.0  |
| 30°   | 942.6  | 945.6  | 949.3  | 951.7  | 951.7  | 957.8  | 960.2  | 959.0  | 965.7  | 967.5  | 970.0  |
| 32.5° | 1017.5 | 1019.9 | 1023.6 | 1026.0 | 1028.4 | 1031.5 | 1032.1 | 1035.1 | 1040.6 | 1045.5 | 1042.4 |
| 35°   | 1111.9 | 1117.9 | 1111.9 | 1118.5 | 1120.4 | 1124.6 | 1123.4 | 1127.1 | 1129.5 | 1131.3 | 1130.7 |
| 37.5° | 1248.9 | 1245.8 | 1244.6 | 1242.2 | 1237.9 | 1252.5 | 1245.2 | 1244.6 | 1240.9 | 1251.3 | 1244.6 |
| 40°   | 1429.1 | 1430.9 | 1432.7 | 1423.0 | 1417.5 | 1417.5 | 1415.7 | 1409.0 | 1406.0 | 1415.1 | 1413.9 |
| 42.5° | 1617.2 | 1619.1 | 1610.5 | 1604.5 | 1590.4 | 1588.6 | 1580.1 | 1578.3 | 1575.2 | 1580.1 | 1575.2 |
| 45°   | 1788.3 | 1789.6 | 1770.7 | 1773.7 | 1762.8 | 1764.6 | 1751.2 | 1756.7 | 1749.4 | 1754.2 | 1763.4 |
| 47.5° | 1979.5 | 1982.0 | 1965.5 | 1972.2 | 1961.3 | 1954.6 | 1954.0 | 1957.6 | 1949.7 | 1954.6 | 1957.0 |
| 50°   | 2153.1 | 2150.0 | 2141.5 | 2143.3 | 2138.5 | 2139.7 | 2132.4 | 2139.1 | 2129.9 | 2139.7 | 2138.5 |
| 52.5° | 2307.1 | 2303.5 | 2301.6 | 2307.7 | 2303.5 | 2303.5 | 2299.2 | 2302.3 | 2303.5 | 2318.1 | 2321.1 |
| 55°   | 2494.1 | 2497.1 | 2500.1 | 2511.1 | 2516.0 | 2508.1 | 2516.0 | 2531.2 | 2531.8 | 2566.5 | 2585.4 |
| 57.5° | 2794.2 | 2815.6 | 2826.5 | 2833.2 | 2861.8 | 2858.8 | 2877.1 | 2913.6 | 2917.2 | 2997.6 | 3044.5 |
| 60°   | 3317.9 | 3355.6 | 3391.6 | 3372.1 | 3429.9 | 3447.6 | 3458.6 | 3526.8 | 3548.1 | 3624.2 | 3665.0 |
| 62.5° | 3979.2 | 3983.4 | 4039.4 | 4021.8 | 4054.7 | 4046.8 | 4060.1 | 4091.2 | 4119.2 | 4181.9 | 4220.3 |
| 65°   | 4440.7 | 4460.8 | 4482.7 | 4460.2 | 4459.6 | 4432.8 | 4415.7 | 4415.1 | 4432.2 | 4445.6 | 4488.2 |
| 67°   | 4566.1 | 4586.2 | 4591.7 | 4575.3 | 4551.5 | 4517.4 | 4485.8 | 4469.3 | 4458.4 | 4464.5 | 4491.2 |
| 67.5° | 4564.9 | 4583.8 | 4590.5 | 4574.7 | 4541.8 | 4513.2 | 4479.7 | 4460.8 | 4446.2 | 4449.2 | 4471.8 |
| 70°   | 4305.5 | 4346.3 | 4368.3 | 4373.1 | 4368.9 | 4318.9 | 4290.3 | 4273.3 | 4261.1 | 4231.2 | 4229.4 |
| 72.5° | 3647.9 | 3697.2 | 3714.3 | 3741.7 | 3753.9 | 3680.2 | 3649.1 | 3668.0 | 3625.4 | 3531.0 | 3535.3 |
| 75°   | 2678.6 | 2682.2 | 2625.0 | 2614.0 | 2573.2 | 2406.4 | 2356.4 | 2310.8 | 2237.7 | 2123.8 | 2016.7 |
| 77.5° | 1396.2 | 1395.6 | 1329.8 | 1296.3 | 1247.6 | 1147.2 | 1142.3 | 1060.7 | 1003.5 | 899.3  | 861.6  |
| 80°   | 991.9  | 1007.7 | 1029.7 | 1040.6 | 1023.6 | 984.6  | 931.0  | 873.2  | 806.8  | 741.6  | 663.7  |
| 82.5° | 922.5  | 932.2  | 943.8  | 901.2  | 877.4  | 822.6  | 781.8  | 697.8  | 650.9  | 576.6  | 498.1  |
| 85°   | 448.8  | 478.6  | 455.5  | 428.7  | 419.5  | 328.2  | 317.2  | 264.9  | 240.5  | 197.9  | 184.5  |
| 87.5° | 28.6   | 35.3   | 31.7   | 28.6   | 25.0   | 14.0   | 18.9   | 13.4   | 14.0   | 10.4   | 9.1    |
| 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°    | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  |
| 2.5°  | 614.4  | 613.8  | 613.2  | 612.6  | 611.9  | 611.9  | 611.3  | 610.7  | 610.1  | 608.9  | 608.9  |
| 5°    | 625.9  | 625.9  | 625.3  | 624.1  | 624.1  | 622.9  | 621.1  | 620.5  | 620.5  | 619.3  | 618.0  |
| 7.5°  | 644.8  | 644.2  | 643.0  | 642.4  | 641.2  | 640.0  | 638.7  | 637.5  | 636.9  | 635.1  | 634.5  |
| 10°   | 673.4  | 672.2  | 669.2  | 668.0  | 667.4  | 666.1  | 664.9  | 663.7  | 661.9  | 660.7  | 660.0  |
| 12.5° | 705.7  | 705.1  | 702.7  | 703.9  | 700.8  | 699.6  | 698.4  | 695.4  | 696.6  | 694.1  | 692.9  |
| 15°   | 738.0  | 738.6  | 737.4  | 737.4  | 734.9  | 733.1  | 731.9  | 729.5  | 728.9  | 727.6  | 726.4  |
| 17.5° | 766.6  | 767.8  | 766.0  | 764.8  | 763.6  | 762.3  | 759.9  | 757.5  | 757.5  | 755.0  | 753.8  |
| 20°   | 792.8  | 794.0  | 793.4  | 792.2  | 790.4  | 789.7  | 788.5  | 786.7  | 786.7  | 785.5  | 783.7  |
| 22.5° | 822.6  | 823.2  | 823.2  | 822.6  | 820.8  | 821.4  | 820.2  | 818.4  | 819.0  | 816.5  | 816.5  |
| 25°   | 858.5  | 859.8  | 861.0  | 861.6  | 860.4  | 861.0  | 859.8  | 858.5  | 857.9  | 858.5  | 857.9  |
| 27.5° | 907.9  | 909.1  | 912.7  | 909.7  | 912.7  | 913.4  | 911.5  | 909.1  | 910.9  | 914.0  | 912.1  |
| 30°   | 973.0  | 971.8  | 976.7  | 977.3  | 976.7  | 977.3  | 976.1  | 974.2  | 975.5  | 980.9  | 977.9  |
| 32.5° | 1046.1 | 1048.5 | 1049.7 | 1051.0 | 1052.8 | 1055.2 | 1053.4 | 1051.6 | 1054.6 | 1052.8 | 1057.1 |
| 35°   | 1134.4 | 1139.9 | 1141.7 | 1139.9 | 1141.1 | 1145.3 | 1144.7 | 1145.3 | 1151.4 | 1145.3 | 1153.3 |
| 37.5° | 1245.8 | 1251.3 | 1255.6 | 1253.1 | 1256.2 | 1256.2 | 1261.0 | 1274.4 | 1265.9 | 1276.9 | 1285.4 |
| 40°   | 1407.8 | 1416.3 | 1416.9 | 1416.3 | 1419.3 | 1423.0 | 1427.9 | 1442.5 | 1432.7 | 1444.3 | 1452.2 |
| 42.5° | 1574.6 | 1585.0 | 1588.6 | 1582.5 | 1589.2 | 1597.1 | 1597.8 | 1610.5 | 1611.2 | 1613.0 | 1617.2 |
| 45°   | 1762.8 | 1771.9 | 1779.2 | 1776.2 | 1776.8 | 1787.1 | 1784.7 | 1796.9 | 1787.7 | 1787.7 | 1790.2 |
| 47.5° | 1963.1 | 1971.6 | 1976.5 | 1981.4 | 1975.3 | 1984.4 | 1988.7 | 1986.2 | 1975.3 | 1972.8 | 1958.2 |
| 50°   | 2145.8 | 2153.1 | 2160.4 | 2173.8 | 2173.2 | 2177.4 | 2180.5 | 2169.5 | 2167.1 | 2153.7 | 2137.2 |
| 52.5° | 2339.4 | 2358.3 | 2374.7 | 2402.7 | 2407.0 | 2421.6 | 2416.1 | 2397.8 | 2394.8 | 2372.9 | 2351.0 |
| 55°   | 2609.1 | 2663.3 | 2687.1 | 2730.3 | 2759.5 | 2758.9 | 2746.7 | 2743.7 | 2720.6 | 2676.7 | 2650.5 |
| 57.5° | 3078.6 | 3163.2 | 3204.0 | 3260.1 | 3269.2 | 3263.7 | 3247.9 | 3219.9 | 3179.7 | 3106.0 | 3058.5 |
| 60°   | 3756.3 | 3808.7 | 3856.2 | 3869.6 | 3876.3 | 3865.9 | 3810.5 | 3748.4 | 3669.8 | 3568.2 | 3483.5 |
| 62.5° | 4268.4 | 4322.0 | 4357.3 | 4351.8 | 4309.8 | 4256.8 | 4175.8 | 4071.7 | 3961.5 | 3847.6 | 3721.0 |
| 65°   | 4529.0 | 4551.5 | 4546.0 | 4503.4 | 4431.6 | 4339.0 | 4220.9 | 4092.4 | 3962.7 | 3828.2 | 3696.6 |
| 67°   | 4515.0 | 4515.6 | 4478.5 | 4395.7 | 4303.7 | 4187.4 | 4043.1 | 3903.1 | 3750.8 | 3609.6 | 3453.1 |
| 67.5° | 4490.0 | 4487.6 | 4435.8 | 4345.1 | 4245.9 | 4125.9 | 3976.1 | 3831.2 | 3673.5 | 3531.0 | 3369.0 |
| 70°   | 4207.5 | 4173.4 | 4056.5 | 3911.6 | 3773.4 | 3611.4 | 3454.3 | 3288.1 | 3110.3 | 2987.9 | 2801.5 |
| 72.5° | 3457.3 | 3342.3 | 3140.7 | 2989.1 | 2841.1 | 2629.2 | 2531.2 | 2324.8 | 2200.0 | 2122.0 | 1981.4 |
| 75°   | 2002.1 | 1905.9 | 1750.0 | 1608.1 | 1536.3 | 1410.8 | 1351.1 | 1199.5 | 1167.9 | 1166.7 | 1117.9 |
| 77.5° | 764.2  | 666.7  | 566.3  | 456.1  | 387.9  | 308.1  | 271.6  | 243.0  | 221.0  | 236.3  | 214.3  |
| 80°   | 573.0  | 471.3  | 368.4  | 267.9  | 191.2  | 141.3  | 121.2  | 112.0  | 106.6  | 102.3  | 99.3   |
| 82.5° | 426.8  | 336.7  | 261.2  | 170.5  | 119.3  | 90.1   | 77.9   | 73.1   | 70.6   | 66.4   | 62.7   |
| 85°   | 144.3  | 115.7  | 91.3   | 63.3   | 49.9   | 40.8   | 37.8   | 36.5   | 34.7   | 31.7   | 29.8   |
| 87.5° | 7.9    | 7.3    | 7.9    | 6.1    | 7.3    | 6.1    | 6.7    | 6.7    | 6.7    | 6.1    | 6.1    |
| 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°    | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9  | 605.9 | 605.9 | 605.9 | 605.9 | 605.9 |
| 2.5°  | 608.3  | 608.3  | 608.3  | 607.1  | 605.2  | 601.6  | 597.9 | 594.9 | 591.9 | 590.0 | 588.8 |
| 5°    | 617.4  | 616.2  | 615.6  | 615.0  | 610.7  | 603.4  | 596.7 | 590.6 | 584.5 | 579.7 | 577.8 |
| 7.5°  | 633.9  | 631.4  | 630.8  | 629.0  | 623.5  | 612.6  | 602.8 | 593.1 | 584.5 | 577.8 | 574.8 |
| 10°   | 658.8  | 658.8  | 655.2  | 652.7  | 646.7  | 632.0  | 618.0 | 605.2 | 593.7 | 586.4 | 584.5 |
| 12.5° | 690.5  | 690.5  | 687.4  | 685.6  | 678.3  | 659.4  | 642.4 | 627.2 | 616.2 | 608.9 | 608.3 |
| 15°   | 723.4  | 722.8  | 720.3  | 717.9  | 710.0  | 689.9  | 672.8 | 659.4 | 650.3 | 641.8 | 639.3 |
| 17.5° | 752.6  | 752.6  | 749.6  | 747.1  | 739.2  | 722.2  | 706.9 | 697.2 | 686.8 | 669.2 | 655.8 |
| 20°   | 781.8  | 782.4  | 780.0  | 777.6  | 770.9  | 756.3  | 749.6 | 739.8 | 716.7 | 678.3 | 646.7 |
| 22.5° | 814.1  | 816.5  | 813.5  | 811.1  | 805.6  | 799.5  | 797.1 | 773.9 | 725.2 | 663.7 | 617.4 |
| 25°   | 855.5  | 859.8  | 856.1  | 854.9  | 851.9  | 853.7  | 846.4 | 792.8 | 713.0 | 632.0 | 574.2 |
| 27.5° | 912.1  | 912.1  | 912.7  | 912.7  | 911.5  | 918.2  | 891.4 | 793.4 | 686.2 | 591.2 | 522.4 |
| 30°   | 978.5  | 982.2  | 980.9  | 980.9  | 985.8  | 990.1  | 916.4 | 780.0 | 652.1 | 540.7 | 459.1 |
| 32.5° | 1058.3 | 1061.3 | 1062.5 | 1057.1 | 1076.5 | 1054.6 | 925.5 | 755.6 | 610.1 | 478.0 | 383.6 |
| 35°   | 1154.5 | 1158.7 | 1161.8 | 1162.4 | 1175.2 | 1110.6 | 920.7 | 719.7 | 549.8 | 399.4 | 300.8 |
| 37.5° | 1279.9 | 1288.4 | 1295.1 | 1298.2 | 1298.8 | 1158.1 | 907.3 | 672.2 | 471.3 | 311.8 | 224.1 |
| 40°   | 1446.7 | 1455.9 | 1454.1 | 1460.1 | 1425.4 | 1186.1 | 876.8 | 603.4 | 373.9 | 228.9 | 172.9 |
| 42.5° | 1607.5 | 1608.7 | 1611.2 | 1605.7 | 1535.0 | 1200.8 | 834.2 | 519.4 | 280.1 | 171.1 | 148.0 |
| 45°   | 1787.1 | 1776.8 | 1765.2 | 1756.7 | 1636.1 | 1206.2 | 775.7 | 417.1 | 197.9 | 143.7 | 137.0 |
| 47.5° | 1955.8 | 1941.8 | 1918.0 | 1893.7 | 1726.2 | 1197.7 | 700.8 | 312.4 | 150.4 | 131.5 | 129.7 |
| 50°   | 2121.4 | 2095.2 | 2061.7 | 2033.7 | 1812.7 | 1184.9 | 618.0 | 225.3 | 131.5 | 125.4 | 123.6 |
| 52.5° | 2326.6 | 2282.8 | 2238.9 | 2202.4 | 1925.3 | 1164.8 | 531.0 | 171.1 | 123.6 | 120.6 | 118.1 |
| 55°   | 2607.9 | 2547.0 | 2476.4 | 2425.2 | 2078.2 | 1134.4 | 439.6 | 144.9 | 120.0 | 117.5 | 113.9 |
| 57.5° | 2997.6 | 2906.3 | 2826.5 | 2743.1 | 2287.0 | 1103.3 | 361.1 | 134.6 | 119.3 | 115.7 | 110.8 |
| 60°   | 3395.8 | 3286.2 | 3184.5 | 3065.2 | 2500.1 | 1072.3 | 306.3 | 133.3 | 121.2 | 115.7 | 108.4 |
| 62.5° | 3602.9 | 3489.6 | 3367.2 | 3246.0 | 2592.1 | 999.2  | 268.5 | 135.2 | 125.4 | 117.5 | 108.4 |
| 65°   | 3555.4 | 3417.1 | 3292.9 | 3169.3 | 2485.5 | 861.0  | 227.1 | 137.6 | 134.0 | 124.8 | 110.2 |
| 67°   | 3316.7 | 3172.4 | 3053.0 | 2934.9 | 2248.1 | 720.9  | 194.8 | 140.0 | 143.1 | 133.3 | 113.9 |
| 67.5° | 3232.7 | 3088.3 | 2970.8 | 2855.7 | 2178.0 | 691.7  | 186.9 | 141.3 | 144.9 | 135.8 | 115.1 |
| 70°   | 2680.4 | 2574.4 | 2449.6 | 2360.7 | 1763.4 | 512.1  | 153.4 | 143.7 | 155.9 | 149.8 | 120.6 |
| 72.5° | 1929.0 | 1827.9 | 1734.1 | 1684.8 | 1298.8 | 358.0  | 129.1 | 141.3 | 162.6 | 157.7 | 123.0 |
| 75°   | 1025.4 | 1019.3 | 985.2  | 1009.6 | 803.7  | 233.8  | 113.9 | 132.1 | 155.3 | 144.3 | 114.5 |
| 77.5° | 207.0  | 213.1  | 250.3  | 246.6  | 259.4  | 130.3  | 97.4  | 113.3 | 120.0 | 105.9 | 93.2  |
| 80°   | 96.2   | 94.4   | 92.6   | 93.8   | 91.9   | 83.4   | 79.2  | 88.9  | 83.4  | 68.2  | 62.1  |
| 82.5° | 59.7   | 58.5   | 56.6   | 56.0   | 62.1   | 66.4   | 69.4  | 70.0  | 55.4  | 47.5  | 45.7  |
| 85°   | 28.6   | 28.6   | 28.0   | 29.2   | 36.5   | 54.2   | 58.5  | 51.8  | 37.1  | 34.1  | 32.3  |
| 87.5° | 5.5    | 5.5    | 6.1    | 5.5    | 7.3    | 12.8   | 14.6  | 17.0  | 14.0  | 14.6  | 16.4  |
| 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°    | 605.9 | 605.9 | 605.9 |
| 2.5°  | 587.6 | 586.4 | 586.4 |
| 5°    | 575.4 | 574.8 | 574.8 |
| 7.5°  | 572.4 | 573.0 | 572.4 |
| 10°   | 583.9 | 583.3 | 585.8 |
| 12.5° | 609.5 | 611.3 | 610.7 |
| 15°   | 636.3 | 637.5 | 637.5 |
| 17.5° | 644.2 | 640.0 | 639.3 |
| 20°   | 623.5 | 615.6 | 613.8 |
| 22.5° | 584.5 | 569.9 | 570.5 |
| 25°   | 535.2 | 517.6 | 518.8 |
| 27.5° | 478.0 | 459.1 | 458.5 |
| 30°   | 409.2 | 388.5 | 378.1 |
| 32.5° | 326.4 | 301.4 | 301.4 |
| 35°   | 245.4 | 225.3 | 218.0 |
| 37.5° | 186.3 | 174.8 | 171.1 |
| 40°   | 155.3 | 149.8 | 148.6 |
| 42.5° | 141.3 | 139.4 | 138.8 |
| 45°   | 134.0 | 132.7 | 132.1 |
| 47.5° | 127.3 | 126.7 | 126.0 |
| 50°   | 122.4 | 121.8 | 121.2 |
| 52.5° | 118.1 | 116.9 | 116.3 |
| 55°   | 112.0 | 112.0 | 112.0 |
| 57.5° | 108.4 | 108.4 | 107.8 |
| 60°   | 104.7 | 104.1 | 104.1 |
| 62.5° | 101.7 | 100.5 | 101.1 |
| 65°   | 99.9  | 98.0  | 98.0  |
| 67°   | 98.6  | 95.0  | 95.0  |
| 67.5° | 98.6  | 93.8  | 93.8  |
| 70°   | 96.8  | 88.9  | 87.7  |
| 72.5° | 95.0  | 83.4  | 81.6  |
| 75°   | 90.1  | 79.2  | 77.3  |
| 77.5° | 77.3  | 70.6  | 69.4  |
| 80°   | 59.7  | 51.8  | 53.0  |
| 82.5° | 43.2  | 37.1  | 36.5  |
| 85°   | 31.1  | 26.8  | 26.8  |
| 87.5° | 16.4  | 14.0  | 14.6  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)