

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: P154378

Luminaire Tested: **VXS-E02-LED-E1-T2-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P154378  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)  
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-T2-8030  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5171.7 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - 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

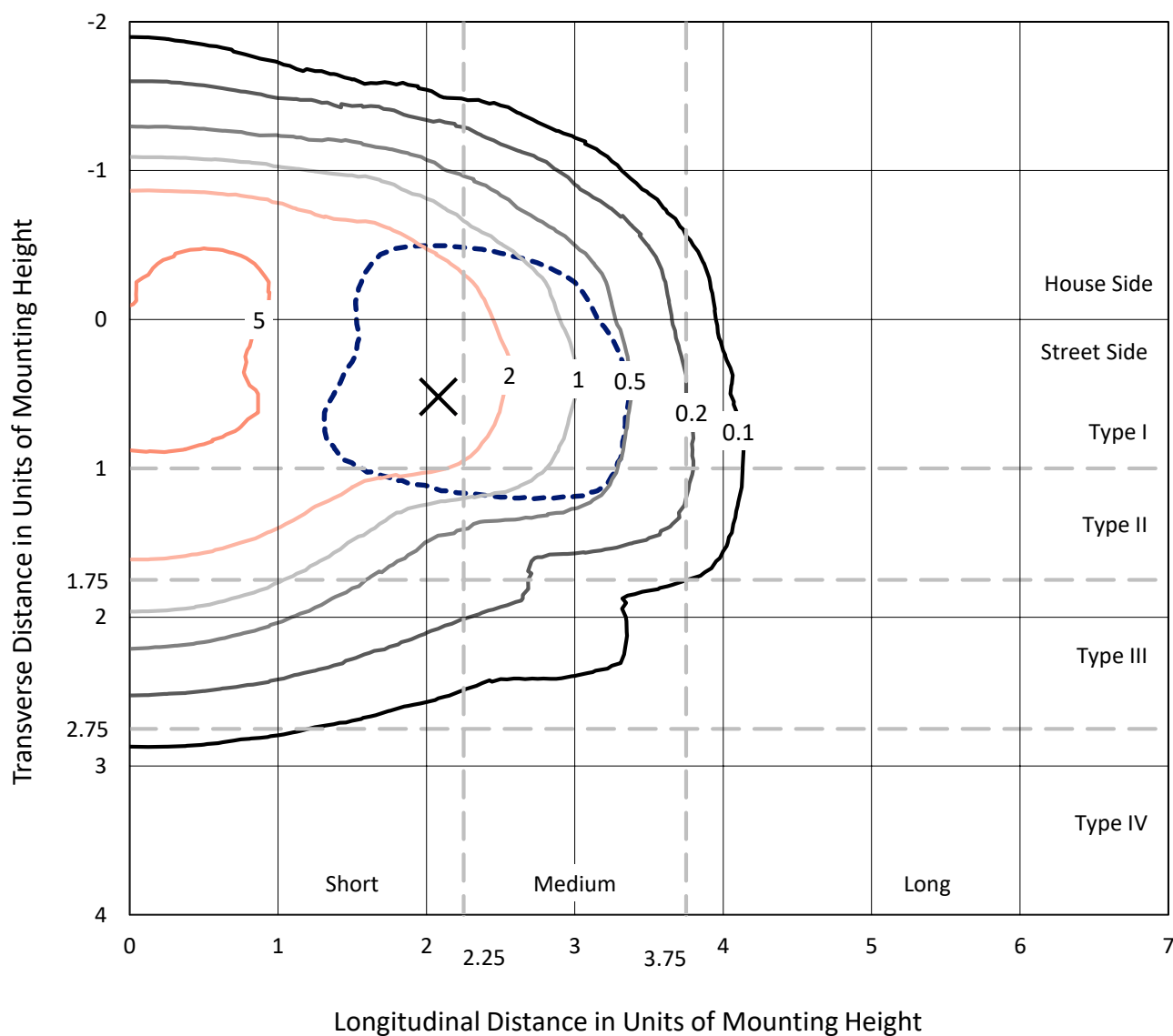


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

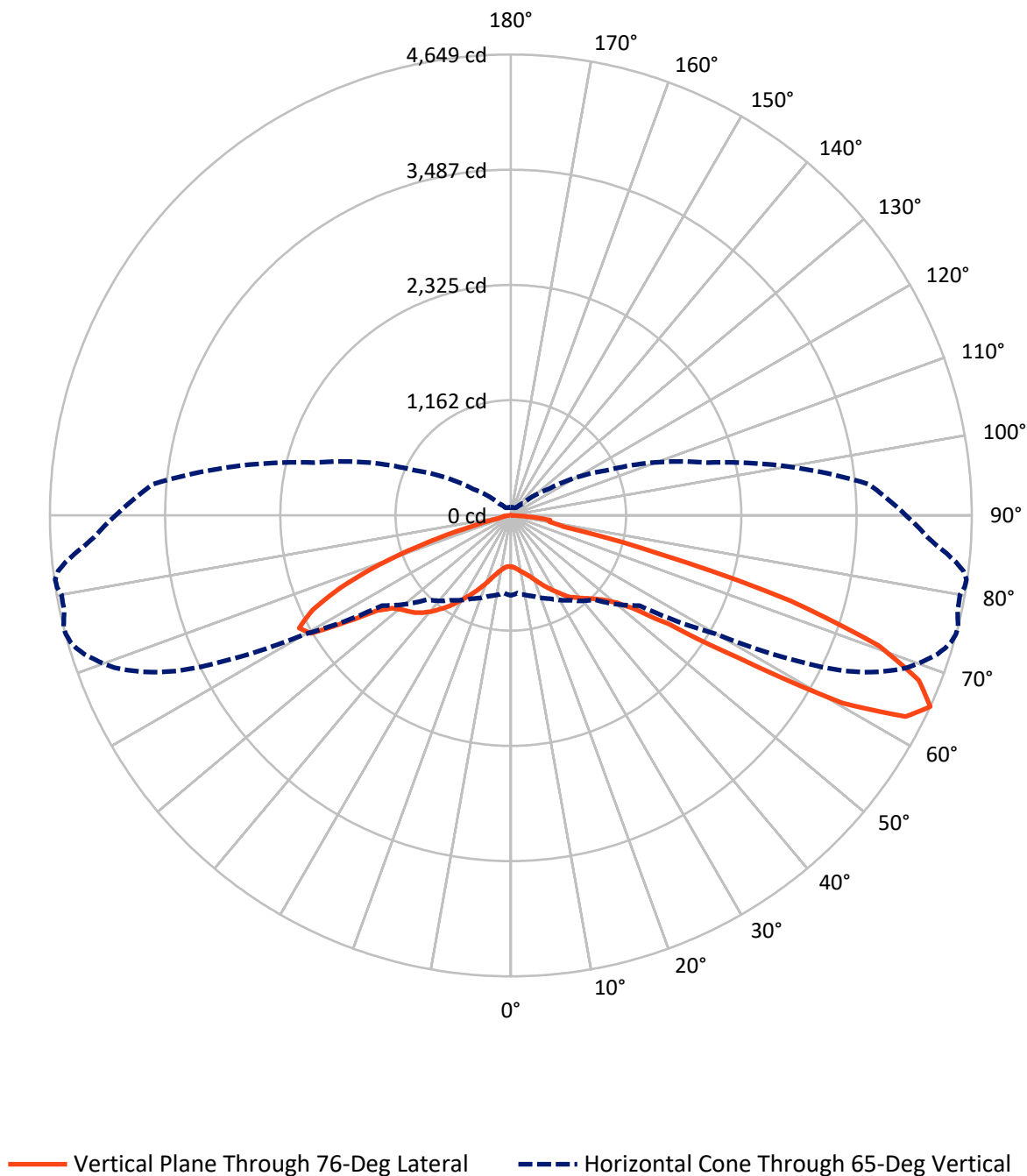


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1811.0   | 0.0    | 1811.0 |
|                    | % Fixture | 35.0     | 0.0    | 35.0   |
| <b>Street Side</b> | Lumens    | 3360.7   | 0.0    | 3360.7 |
|                    | % Fixture | 65.0     | 0.0    | 65.0   |
| <b>Total</b>       | Lumens    | 5171.7   | 0.0    | 5171.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.8   | 1.0       |
| 10°-20°   | 177.8  | 3.4       |
| 20°-30°   | 349.4  | 6.8       |
| 30°-40°   | 580.6  | 11.2      |
| 40°-50°   | 853.1  | 16.5      |
| 50°-60°   | 1181.1 | 22.8      |
| 60°-70°   | 1409.7 | 27.3      |
| 70°-80°   | 498.5  | 9.6       |
| 80°-90°   | 69.7   | 1.3       |
| 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°    | 5171.7 | 100.0     |
| 0°-180°   | 5171.7 | 100.0     |

**Coefficient of Utilization**



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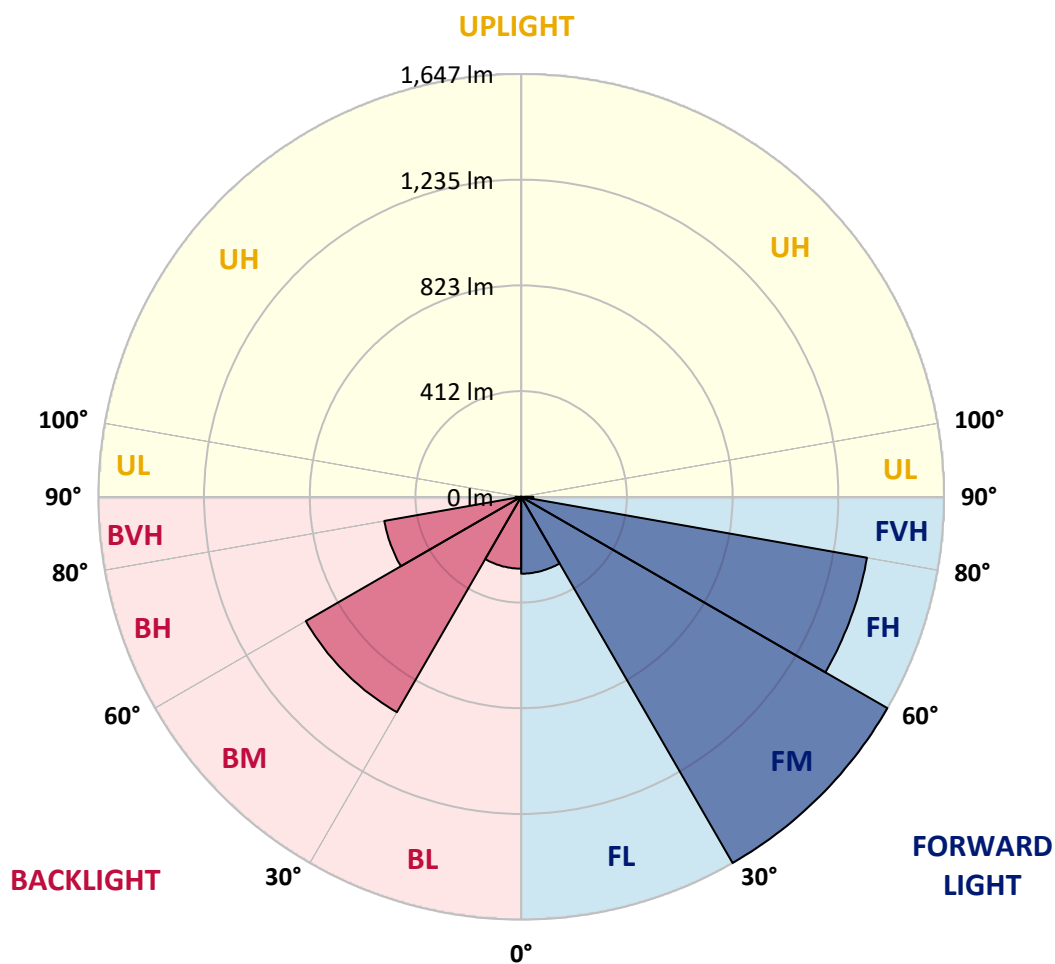
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 299.2  | 5.8       |                         |      |         |
| FM   | (30°-60°)   | 1646.5 | 31.8      |                         |      |         |
| FH   | (60°-80°)   | 1367.3 | 26.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 47.6   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 279.8  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 968.2  | 18.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 541.0  | 10.5      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 22.1   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  |
| 2.5°  | 539.6  | 540.1  | 539.1  | 538.4  | 536.8  | 534.0  | 531.7  | 529.4  | 529.4  | 529.4  | 527.8  |
| 5°    | 563.2  | 564.4  | 562.1  | 560.4  | 555.3  | 552.5  | 548.6  | 545.8  | 544.7  | 544.0  | 542.4  |
| 7.5°  | 593.1  | 591.4  | 588.0  | 586.8  | 582.9  | 576.7  | 569.4  | 563.8  | 563.8  | 563.2  | 563.8  |
| 10°   | 622.9  | 618.3  | 616.7  | 615.0  | 608.8  | 600.9  | 592.4  | 586.3  | 585.7  | 585.2  | 583.5  |
| 12.5° | 652.6  | 651.0  | 649.3  | 643.1  | 636.9  | 624.6  | 615.0  | 608.8  | 608.2  | 608.8  | 606.5  |
| 15°   | 692.1  | 688.1  | 686.4  | 675.8  | 662.3  | 648.7  | 636.9  | 631.3  | 629.6  | 630.2  | 628.5  |
| 17.5° | 722.5  | 722.5  | 718.5  | 706.7  | 689.2  | 670.7  | 658.3  | 654.9  | 654.4  | 654.4  | 654.9  |
| 20°   | 746.6  | 746.1  | 742.2  | 732.5  | 711.8  | 693.2  | 687.0  | 685.9  | 685.3  | 685.3  | 687.0  |
| 22.5° | 760.1  | 759.1  | 757.3  | 746.6  | 730.4  | 717.9  | 718.5  | 721.9  | 723.0  | 724.1  | 726.4  |
| 25°   | 766.9  | 765.2  | 764.7  | 757.3  | 745.5  | 743.8  | 754.0  | 763.0  | 765.2  | 767.5  | 770.3  |
| 27.5° | 778.1  | 775.3  | 776.5  | 773.7  | 770.9  | 776.0  | 796.7  | 806.3  | 808.0  | 810.8  | 812.4  |
| 30°   | 809.1  | 808.0  | 812.4  | 813.6  | 815.9  | 823.2  | 842.3  | 851.3  | 855.2  | 855.2  | 863.1  |
| 32.5° | 868.2  | 868.7  | 869.8  | 881.7  | 885.6  | 890.7  | 900.8  | 908.1  | 908.7  | 909.2  | 916.6  |
| 35°   | 947.6  | 950.9  | 960.4  | 970.6  | 980.1  | 979.6  | 973.4  | 977.3  | 974.5  | 977.9  | 978.4  |
| 37.5° | 1047.7 | 1043.2 | 1057.2 | 1080.3 | 1094.9 | 1091.0 | 1063.4 | 1045.4 | 1050.5 | 1048.2 | 1046.5 |
| 40°   | 1124.8 | 1129.8 | 1156.8 | 1187.3 | 1198.4 | 1210.9 | 1174.8 | 1143.9 | 1139.4 | 1131.0 | 1125.9 |
| 42.5° | 1231.1 | 1231.7 | 1253.6 | 1276.2 | 1308.7 | 1335.8 | 1312.6 | 1268.2 | 1254.7 | 1244.6 | 1222.7 |
| 45°   | 1329.5 | 1327.9 | 1345.9 | 1373.5 | 1412.2 | 1451.1 | 1459.6 | 1411.2 | 1406.1 | 1388.1 | 1359.4 |
| 47.5° | 1395.4 | 1393.2 | 1405.5 | 1441.6 | 1504.6 | 1568.2 | 1603.0 | 1588.4 | 1578.9 | 1571.5 | 1526.5 |
| 50°   | 1439.9 | 1435.3 | 1449.4 | 1487.7 | 1558.0 | 1656.0 | 1747.0 | 1759.5 | 1755.5 | 1755.5 | 1726.8 |
| 52.5° | 1473.1 | 1473.1 | 1483.2 | 1514.1 | 1585.6 | 1707.7 | 1870.9 | 1933.3 | 1938.3 | 1944.0 | 1942.3 |
| 55°   | 1454.5 | 1457.3 | 1482.6 | 1527.7 | 1603.0 | 1743.7 | 1973.3 | 2109.9 | 2138.1 | 2161.8 | 2188.7 |
| 57.5° | 1390.9 | 1400.4 | 1434.2 | 1508.0 | 1607.6 | 1770.7 | 2086.9 | 2357.5 | 2436.9 | 2505.5 | 2612.4 |
| 60°   | 1298.0 | 1310.5 | 1359.4 | 1453.4 | 1574.3 | 1726.8 | 2126.8 | 2566.8 | 2692.8 | 2842.6 | 3121.7 |
| 62.5° | 1138.9 | 1151.2 | 1199.1 | 1293.0 | 1396.5 | 1558.5 | 1961.5 | 2597.8 | 2799.3 | 3011.4 | 3433.4 |
| 65°   | 806.8  | 787.2  | 842.3  | 926.7  | 1045.4 | 1202.4 | 1585.0 | 2390.2 | 2680.0 | 2967.5 | 3488.5 |
| 67.5° | 449.5  | 447.9  | 481.7  | 544.7  | 658.3  | 827.2  | 1092.1 | 1833.2 | 2099.9 | 2425.6 | 3065.4 |
| 70°   | 310.1  | 313.4  | 334.8  | 402.9  | 496.8  | 642.6  | 778.1  | 1151.2 | 1343.1 | 1564.1 | 2193.3 |
| 72.5° | 217.7  | 225.1  | 236.9  | 277.4  | 373.6  | 541.2  | 795.0  | 688.1  | 783.8  | 934.6  | 1318.9 |
| 75°   | 127.8  | 132.7  | 141.2  | 160.9  | 212.6  | 361.8  | 823.2  | 604.9  | 604.9  | 640.3  | 797.8  |
| 77.5° | 78.8   | 78.8   | 83.8   | 91.7   | 113.1  | 177.2  | 586.3  | 679.7  | 660.5  | 640.3  | 642.0  |
| 80°   | 40.5   | 43.3   | 50.7   | 54.6   | 63.0   | 81.0   | 263.3  | 634.1  | 695.4  | 736.5  | 707.9  |
| 82.5° | 18.5   | 20.8   | 31.0   | 33.2   | 36.6   | 42.8   | 90.6   | 360.6  | 483.3  | 636.4  | 795.0  |
| 85°   | 9.5    | 9.5    | 16.3   | 20.2   | 22.0   | 19.7   | 33.2   | 145.7  | 220.5  | 336.5  | 526.6  |
| 87.5° | 1.7    | 1.7    | 2.8    | 3.4    | 5.1    | 4.5    | 5.6    | 8.4    | 14.1   | 15.2   | 15.8   |
| 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°    | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  |
| 2.5°  | 527.3  | 527.8  | 527.3  | 526.6  | 525.5  | 525.5  | 525.5  | 525.0  | 525.0  | 525.0  | 524.4  |
| 5°    | 542.4  | 540.1  | 540.7  | 539.6  | 539.1  | 538.4  | 539.1  | 537.9  | 536.8  | 537.3  | 536.8  |
| 7.5°  | 561.6  | 560.4  | 558.1  | 558.1  | 557.6  | 556.5  | 556.5  | 554.8  | 554.2  | 553.1  | 552.5  |
| 10°   | 582.9  | 580.1  | 581.2  | 580.1  | 580.6  | 578.4  | 577.3  | 576.2  | 575.0  | 575.0  | 575.6  |
| 12.5° | 604.9  | 604.2  | 602.6  | 601.5  | 601.5  | 599.8  | 600.3  | 599.8  | 598.1  | 597.5  | 595.9  |
| 15°   | 627.4  | 627.4  | 625.7  | 626.2  | 625.7  | 624.6  | 623.4  | 623.4  | 622.3  | 621.1  | 621.8  |
| 17.5° | 653.8  | 653.8  | 653.8  | 653.8  | 654.4  | 652.6  | 653.3  | 652.1  | 651.0  | 653.3  | 653.3  |
| 20°   | 688.1  | 690.4  | 690.4  | 689.8  | 692.6  | 691.0  | 690.4  | 693.2  | 690.4  | 694.3  | 693.8  |
| 22.5° | 727.6  | 729.7  | 729.7  | 732.0  | 732.5  | 734.3  | 735.4  | 734.3  | 736.5  | 738.8  | 738.8  |
| 25°   | 771.4  | 773.7  | 775.3  | 778.8  | 780.4  | 779.3  | 779.9  | 782.7  | 783.8  | 786.0  | 788.3  |
| 27.5° | 817.5  | 818.1  | 820.3  | 824.2  | 827.2  | 828.2  | 828.8  | 833.3  | 833.9  | 835.0  | 837.2  |
| 30°   | 862.6  | 868.2  | 867.0  | 872.1  | 873.8  | 875.5  | 878.9  | 880.5  | 884.5  | 886.7  | 886.7  |
| 32.5° | 915.4  | 914.3  | 918.9  | 922.8  | 925.6  | 928.4  | 931.2  | 933.5  | 935.8  | 936.8  | 942.5  |
| 35°   | 981.2  | 983.5  | 983.5  | 984.1  | 990.9  | 991.4  | 993.7  | 998.8  | 1000.4 | 1003.8 | 1006.0 |
| 37.5° | 1046.5 | 1042.6 | 1042.1 | 1042.1 | 1039.8 | 1041.5 | 1042.1 | 1042.6 | 1044.9 | 1045.4 | 1047.7 |
| 40°   | 1119.7 | 1114.6 | 1110.2 | 1107.4 | 1102.8 | 1096.6 | 1095.5 | 1092.6 | 1094.4 | 1093.8 | 1094.4 |
| 42.5° | 1219.9 | 1205.8 | 1195.1 | 1187.3 | 1178.2 | 1171.5 | 1166.4 | 1159.1 | 1154.0 | 1147.9 | 1146.7 |
| 45°   | 1347.6 | 1321.1 | 1303.1 | 1290.2 | 1277.2 | 1258.7 | 1248.0 | 1236.7 | 1226.6 | 1216.5 | 1208.1 |
| 47.5° | 1515.2 | 1487.2 | 1458.4 | 1434.8 | 1414.5 | 1384.7 | 1354.3 | 1337.4 | 1317.7 | 1300.3 | 1288.0 |
| 50°   | 1712.7 | 1679.0 | 1665.5 | 1632.2 | 1606.9 | 1562.0 | 1524.2 | 1496.7 | 1457.3 | 1430.9 | 1407.8 |
| 52.5° | 1914.7 | 1906.3 | 1899.0 | 1870.9 | 1841.0 | 1815.1 | 1782.0 | 1733.6 | 1693.6 | 1663.2 | 1616.0 |
| 55°   | 2189.8 | 2193.8 | 2191.0 | 2175.9 | 2165.1 | 2140.3 | 2126.8 | 2084.7 | 2066.6 | 2022.8 | 1973.3 |
| 57.5° | 2653.0 | 2684.5 | 2724.4 | 2740.2 | 2761.6 | 2741.2 | 2764.9 | 2793.6 | 2722.2 | 2746.9 | 2702.5 |
| 60°   | 3244.4 | 3388.9 | 3475.0 | 3580.7 | 3649.9 | 3746.7 | 3764.2 | 3789.5 | 3782.2 | 3796.3 | 3825.0 |
| 62.5° | 3605.5 | 3777.1 | 3942.0 | 4061.9 | 4190.2 | 4261.0 | 4346.5 | 4406.2 | 4468.1 | 4509.7 | 4497.9 |
| 65°   | 3711.9 | 3888.5 | 4038.2 | 4169.3 | 4284.1 | 4370.8 | 4450.1 | 4524.9 | 4581.8 | 4621.7 | 4645.3 |
| 67.5° | 3321.3 | 3552.1 | 3709.6 | 3863.2 | 4011.2 | 4102.4 | 4168.7 | 4241.3 | 4324.6 | 4393.8 | 4407.4 |
| 70°   | 2499.4 | 2845.4 | 3068.7 | 3252.7 | 3426.6 | 3549.2 | 3642.1 | 3709.6 | 3774.3 | 3823.8 | 3877.8 |
| 72.5° | 1563.1 | 1865.8 | 2121.2 | 2359.8 | 2544.4 | 2713.2 | 2791.4 | 2941.0 | 2921.3 | 2959.1 | 2999.6 |
| 75°   | 936.8  | 1084.2 | 1224.9 | 1393.2 | 1489.9 | 1630.6 | 1656.0 | 1680.6 | 1667.8 | 1625.5 | 1657.0 |
| 77.5° | 651.0  | 675.2  | 674.1  | 664.5  | 654.4  | 629.6  | 597.5  | 580.1  | 568.3  | 551.4  | 558.1  |
| 80°   | 654.9  | 602.6  | 522.7  | 439.5  | 362.9  | 312.2  | 292.0  | 292.0  | 312.8  | 342.7  | 372.4  |
| 82.5° | 782.7  | 726.9  | 648.2  | 542.4  | 429.8  | 349.9  | 296.5  | 275.1  | 279.1  | 309.4  | 347.8  |
| 85°   | 527.8  | 540.1  | 473.8  | 433.3  | 343.2  | 267.3  | 223.9  | 181.8  | 160.9  | 166.0  | 188.0  |
| 87.5° | 19.2   | 23.1   | 8.4    | 11.3   | 7.9    | 6.7    | 6.7    | 7.4    | 5.1    | 6.2    | 5.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  |
| 2.5°  | 523.8  | 523.3  | 523.3  | 522.2  | 522.2  | 521.6  | 521.6  | 521.0  | 520.4  | 520.4  | 519.9  |
| 5°    | 536.2  | 535.6  | 534.5  | 534.0  | 532.8  | 532.8  | 532.2  | 531.2  | 531.2  | 530.1  | 529.4  |
| 7.5°  | 553.7  | 552.5  | 551.4  | 550.9  | 550.3  | 548.6  | 548.6  | 547.5  | 547.5  | 546.3  | 545.8  |
| 10°   | 574.5  | 573.4  | 572.2  | 572.7  | 571.1  | 570.6  | 569.4  | 569.4  | 567.8  | 567.2  | 567.2  |
| 12.5° | 597.0  | 596.4  | 596.4  | 594.7  | 594.2  | 593.6  | 591.4  | 591.4  | 591.4  | 590.3  | 590.8  |
| 15°   | 621.1  | 621.8  | 620.1  | 621.8  | 621.1  | 619.5  | 619.5  | 619.5  | 617.2  | 620.1  | 617.8  |
| 17.5° | 653.8  | 655.5  | 654.4  | 654.9  | 653.8  | 653.8  | 654.4  | 653.8  | 654.9  | 654.9  | 658.3  |
| 20°   | 694.3  | 694.9  | 697.7  | 696.6  | 696.6  | 696.1  | 697.1  | 697.7  | 700.0  | 698.9  | 701.0  |
| 22.5° | 738.8  | 741.6  | 742.2  | 744.4  | 744.4  | 743.8  | 745.0  | 747.3  | 748.3  | 750.1  | 749.4  |
| 25°   | 789.4  | 791.1  | 793.4  | 790.6  | 795.0  | 795.0  | 796.2  | 799.0  | 799.6  | 799.6  | 803.5  |
| 27.5° | 836.7  | 841.1  | 841.8  | 844.6  | 842.9  | 844.0  | 848.0  | 849.6  | 851.9  | 851.9  | 853.0  |
| 30°   | 890.2  | 891.8  | 893.0  | 896.3  | 895.8  | 896.3  | 896.9  | 899.7  | 899.7  | 902.5  | 905.3  |
| 32.5° | 945.3  | 946.4  | 947.6  | 950.9  | 952.0  | 954.3  | 953.2  | 955.4  | 958.2  | 958.8  | 960.4  |
| 35°   | 1011.1 | 1012.2 | 1013.4 | 1018.4 | 1019.0 | 1022.9 | 1024.0 | 1022.9 | 1027.5 | 1024.6 | 1027.5 |
| 37.5° | 1049.3 | 1054.4 | 1055.5 | 1059.0 | 1057.8 | 1060.6 | 1062.3 | 1064.6 | 1065.7 | 1068.0 | 1072.4 |
| 40°   | 1096.1 | 1097.7 | 1101.1 | 1102.8 | 1105.1 | 1105.6 | 1107.9 | 1109.5 | 1111.3 | 1116.3 | 1121.3 |
| 42.5° | 1143.9 | 1146.1 | 1147.9 | 1150.1 | 1152.8 | 1155.1 | 1156.8 | 1161.9 | 1163.0 | 1166.4 | 1176.0 |
| 45°   | 1201.9 | 1200.7 | 1201.2 | 1201.9 | 1203.0 | 1205.8 | 1210.9 | 1216.0 | 1219.3 | 1227.2 | 1235.0 |
| 47.5° | 1273.9 | 1266.5 | 1263.7 | 1259.3 | 1260.3 | 1266.5 | 1267.7 | 1276.2 | 1282.9 | 1290.2 | 1299.8 |
| 50°   | 1383.0 | 1363.3 | 1351.5 | 1339.7 | 1338.5 | 1342.0 | 1346.4 | 1355.4 | 1363.3 | 1372.8 | 1386.4 |
| 52.5° | 1566.4 | 1528.7 | 1505.1 | 1472.4 | 1463.5 | 1461.8 | 1458.4 | 1463.5 | 1465.7 | 1478.7 | 1504.0 |
| 55°   | 1937.8 | 1868.1 | 1823.0 | 1772.3 | 1725.1 | 1711.1 | 1684.0 | 1689.6 | 1684.0 | 1691.9 | 1729.6 |
| 57.5° | 2713.2 | 2657.4 | 2613.6 | 2548.8 | 2467.9 | 2381.8 | 2360.3 | 2272.0 | 2289.4 | 2340.1 | 2307.5 |
| 60°   | 3839.1 | 3818.8 | 3787.3 | 3756.4 | 3645.5 | 3583.0 | 3481.1 | 3469.9 | 3398.4 | 3399.1 | 3352.3 |
| 62.5° | 4469.2 | 4495.1 | 4476.0 | 4466.9 | 4460.7 | 4441.0 | 4390.5 | 4329.6 | 4238.5 | 4172.6 | 4076.0 |
| 65°   | 4649.2 | 4627.4 | 4606.5 | 4603.7 | 4602.0 | 4634.1 | 4641.3 | 4598.7 | 4516.0 | 4413.5 | 4302.1 |
| 67.5° | 4439.4 | 4427.0 | 4428.2 | 4404.5 | 4419.2 | 4474.8 | 4513.7 | 4501.9 | 4425.9 | 4302.1 | 4160.3 |
| 70°   | 3939.8 | 3915.5 | 3940.3 | 3971.3 | 3993.2 | 4025.3 | 4064.1 | 4073.7 | 4004.5 | 3877.3 | 3732.6 |
| 72.5° | 2950.1 | 2954.0 | 2977.6 | 2986.0 | 3074.4 | 3065.4 | 3100.3 | 2986.6 | 2936.5 | 2815.5 | 2741.2 |
| 75°   | 1552.3 | 1527.0 | 1592.8 | 1453.4 | 1396.0 | 1436.0 | 1323.9 | 1216.5 | 1239.0 | 1257.5 | 1123.6 |
| 77.5° | 548.6  | 513.2  | 453.0  | 428.7  | 356.7  | 302.2  | 247.0  | 222.8  | 209.8  | 203.1  | 194.7  |
| 80°   | 393.9  | 405.1  | 392.7  | 363.5  | 308.9  | 247.6  | 195.2  | 154.2  | 132.2  | 120.4  | 112.5  |
| 82.5° | 398.3  | 442.8  | 462.5  | 454.1  | 404.6  | 306.1  | 202.0  | 128.8  | 95.6   | 79.9   | 74.3   |
| 85°   | 213.8  | 234.1  | 225.1  | 189.6  | 170.5  | 101.9  | 69.7   | 46.7   | 39.4   | 36.0   | 33.2   |
| 87.5° | 8.4    | 6.7    | 5.6    | 5.6    | 6.2    | 6.7    | 5.6    | 6.2    | 5.6    | 5.6    | 5.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°  | 145°  | 155°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1  | 517.1 | 517.1 | 517.1 |
| 2.5°  | 518.8  | 518.8  | 518.8  | 518.2  | 517.1  | 514.3  | 511.5  | 509.2  | 507.6 | 505.8 | 503.6 |
| 5°    | 528.9  | 527.8  | 527.8  | 527.8  | 523.3  | 518.8  | 514.8  | 510.9  | 507.6 | 504.7 | 502.5 |
| 7.5°  | 545.8  | 545.2  | 543.0  | 542.4  | 539.1  | 531.7  | 527.3  | 520.4  | 516.5 | 512.5 | 511.5 |
| 10°   | 566.0  | 565.5  | 564.9  | 564.4  | 559.9  | 552.5  | 546.9  | 540.7  | 535.1 | 529.4 | 523.8 |
| 12.5° | 589.6  | 589.1  | 588.5  | 586.8  | 585.2  | 581.2  | 575.0  | 568.3  | 561.6 | 549.7 | 543.5 |
| 15°   | 619.0  | 620.1  | 619.0  | 618.3  | 617.2  | 617.8  | 613.9  | 604.2  | 593.6 | 578.4 | 565.5 |
| 17.5° | 657.7  | 656.6  | 656.1  | 658.3  | 657.7  | 660.5  | 659.5  | 647.0  | 630.8 | 606.5 | 584.0 |
| 20°   | 700.5  | 700.5  | 702.8  | 704.5  | 709.5  | 716.8  | 713.5  | 698.2  | 668.4 | 634.7 | 605.4 |
| 22.5° | 751.7  | 752.8  | 755.1  | 754.0  | 761.9  | 773.7  | 774.8  | 753.4  | 714.6 | 667.9 | 626.8 |
| 25°   | 805.2  | 806.3  | 804.0  | 807.5  | 820.3  | 837.2  | 840.6  | 810.3  | 759.1 | 698.2 | 644.8 |
| 27.5° | 855.9  | 856.9  | 856.9  | 861.5  | 873.8  | 902.5  | 905.9  | 872.1  | 804.0 | 724.7 | 657.7 |
| 30°   | 905.3  | 909.8  | 911.0  | 912.1  | 930.7  | 970.6  | 977.9  | 928.9  | 843.4 | 744.4 | 666.7 |
| 32.5° | 967.8  | 969.4  | 971.7  | 974.5  | 996.0  | 1044.9 | 1044.9 | 977.9  | 868.7 | 756.8 | 668.4 |
| 35°   | 1034.7 | 1035.3 | 1040.3 | 1040.9 | 1071.3 | 1120.2 | 1110.7 | 1018.4 | 886.7 | 754.0 | 656.1 |
| 37.5° | 1075.2 | 1077.5 | 1082.6 | 1089.3 | 1121.3 | 1190.6 | 1168.6 | 1053.3 | 890.2 | 735.4 | 628.0 |
| 40°   | 1125.3 | 1129.8 | 1134.9 | 1141.7 | 1189.4 | 1262.1 | 1217.6 | 1075.2 | 876.1 | 698.9 | 585.7 |
| 42.5° | 1179.4 | 1185.5 | 1193.4 | 1205.8 | 1262.6 | 1325.1 | 1254.7 | 1078.7 | 844.0 | 657.7 | 535.6 |
| 45°   | 1240.1 | 1251.4 | 1260.3 | 1275.0 | 1339.2 | 1379.7 | 1277.2 | 1059.0 | 803.5 | 603.7 | 482.2 |
| 47.5° | 1310.5 | 1319.5 | 1335.2 | 1351.0 | 1415.1 | 1416.8 | 1279.5 | 1020.6 | 748.3 | 549.7 | 425.4 |
| 50°   | 1397.1 | 1402.7 | 1426.3 | 1436.0 | 1496.2 | 1455.6 | 1263.2 | 968.9  | 690.4 | 488.9 | 362.4 |
| 52.5° | 1512.4 | 1520.3 | 1550.7 | 1565.3 | 1608.1 | 1508.5 | 1240.1 | 912.6  | 624.0 | 420.8 | 297.6 |
| 55°   | 1740.3 | 1774.6 | 1796.1 | 1821.3 | 1848.9 | 1628.3 | 1229.9 | 852.4  | 549.1 | 342.1 | 235.8 |
| 57.5° | 2380.1 | 2368.8 | 2416.1 | 2473.5 | 2472.8 | 1902.4 | 1290.8 | 800.6  | 460.8 | 261.7 | 181.1 |
| 60°   | 3333.2 | 3343.9 | 3319.7 | 3354.0 | 3244.9 | 2242.2 | 1374.0 | 746.1  | 361.2 | 194.7 | 138.4 |
| 62.5° | 4041.6 | 3979.7 | 3945.4 | 3904.9 | 3664.6 | 2279.4 | 1313.3 | 634.1  | 262.8 | 136.7 | 106.3 |
| 65°   | 4209.2 | 4136.7 | 4063.0 | 3985.9 | 3623.5 | 2054.8 | 1077.5 | 465.3  | 169.9 | 94.0  | 84.4  |
| 67.5° | 4043.8 | 3927.4 | 3833.4 | 3754.1 | 3320.3 | 1703.2 | 787.8  | 285.8  | 97.3  | 76.0  | 72.0  |
| 70°   | 3615.1 | 3486.2 | 3334.3 | 3245.4 | 2795.9 | 1255.3 | 504.7  | 154.2  | 74.8  | 67.6  | 65.8  |
| 72.5° | 2646.2 | 2540.4 | 2374.4 | 2272.5 | 2007.6 | 763.0  | 281.9  | 86.6   | 69.7  | 64.7  | 62.5  |
| 75°   | 1030.8 | 975.6  | 906.4  | 912.1  | 814.2  | 337.6  | 127.8  | 74.8   | 68.1  | 63.6  | 61.3  |
| 77.5° | 177.2  | 172.7  | 159.8  | 159.8  | 181.8  | 123.2  | 85.0   | 75.4   | 67.6  | 62.5  | 58.5  |
| 80°   | 106.3  | 104.0  | 99.1   | 97.9   | 94.5   | 86.6   | 81.6   | 76.5   | 66.4  | 59.1  | 54.0  |
| 82.5° | 69.7   | 66.9   | 65.3   | 64.7   | 70.4   | 76.0   | 76.5   | 76.0   | 63.0  | 51.2  | 43.9  |
| 85°   | 29.8   | 29.8   | 29.8   | 30.4   | 40.5   | 61.3   | 63.0   | 67.6   | 51.8  | 40.0  | 31.5  |
| 87.5° | 5.1    | 6.2    | 6.2    | 6.7    | 7.4    | 13.5   | 16.9   | 22.0   | 17.4  | 16.9  | 15.2  |
| 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):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 517.1 | 517.1 | 517.1 |
| 2.5°  | 503.0 | 501.9 | 501.9 |
| 5°    | 501.3 | 500.2 | 500.7 |
| 7.5°  | 508.1 | 505.8 | 506.4 |
| 10°   | 520.4 | 518.2 | 517.1 |
| 12.5° | 536.2 | 533.4 | 533.4 |
| 15°   | 552.5 | 545.8 | 545.2 |
| 17.5° | 566.0 | 557.6 | 556.5 |
| 20°   | 581.2 | 569.9 | 568.3 |
| 22.5° | 595.3 | 580.1 | 577.8 |
| 25°   | 605.4 | 586.8 | 584.0 |
| 27.5° | 609.9 | 588.0 | 585.7 |
| 30°   | 613.3 | 588.5 | 585.2 |
| 32.5° | 609.9 | 583.5 | 580.6 |
| 35°   | 591.4 | 562.7 | 560.9 |
| 37.5° | 559.3 | 527.3 | 525.0 |
| 40°   | 517.1 | 483.3 | 477.7 |
| 42.5° | 463.1 | 431.6 | 425.4 |
| 45°   | 410.8 | 374.7 | 371.9 |
| 47.5° | 354.5 | 320.1 | 321.9 |
| 50°   | 295.4 | 264.5 | 263.9 |
| 52.5° | 239.2 | 212.1 | 210.5 |
| 55°   | 188.5 | 169.3 | 167.7 |
| 57.5° | 149.1 | 139.0 | 137.3 |
| 60°   | 121.6 | 116.5 | 114.8 |
| 62.5° | 97.9  | 96.2  | 95.6  |
| 65°   | 81.6  | 81.6  | 81.6  |
| 67.5° | 70.9  | 71.5  | 71.5  |
| 70°   | 65.3  | 65.8  | 65.3  |
| 72.5° | 63.0  | 64.7  | 64.7  |
| 75°   | 61.3  | 62.5  | 60.2  |
| 77.5° | 60.2  | 60.7  | 56.8  |
| 80°   | 59.7  | 59.1  | 51.8  |
| 82.5° | 51.8  | 50.1  | 43.9  |
| 85°   | 47.3  | 36.0  | 30.4  |
| 87.5° | 24.1  | 16.9  | 13.0  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)