

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: P149748

Luminaire Tested: **AVS-E02-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P149748  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-E02-LED-E-U-SL2-HSS-8030  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3095 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

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

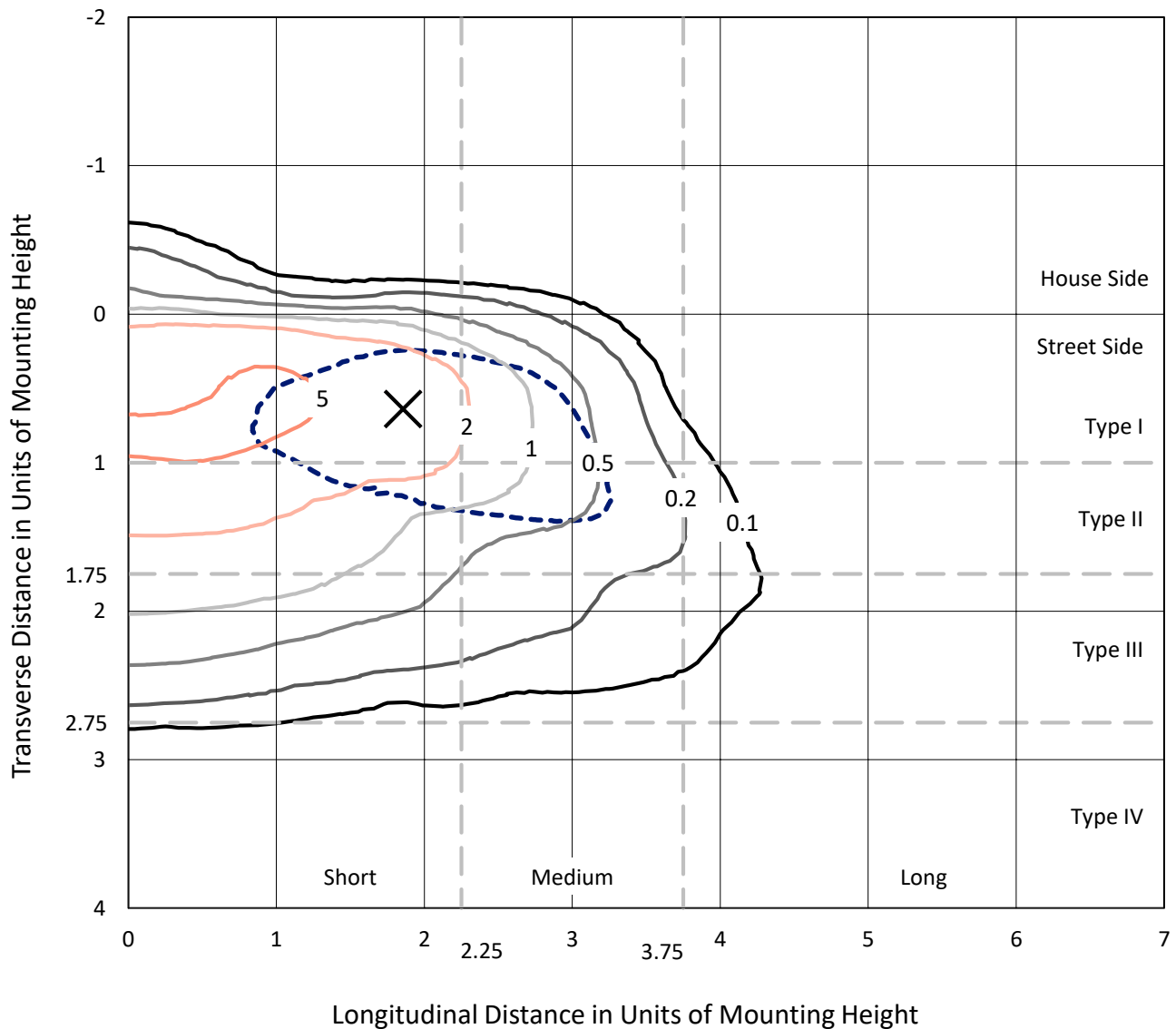


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

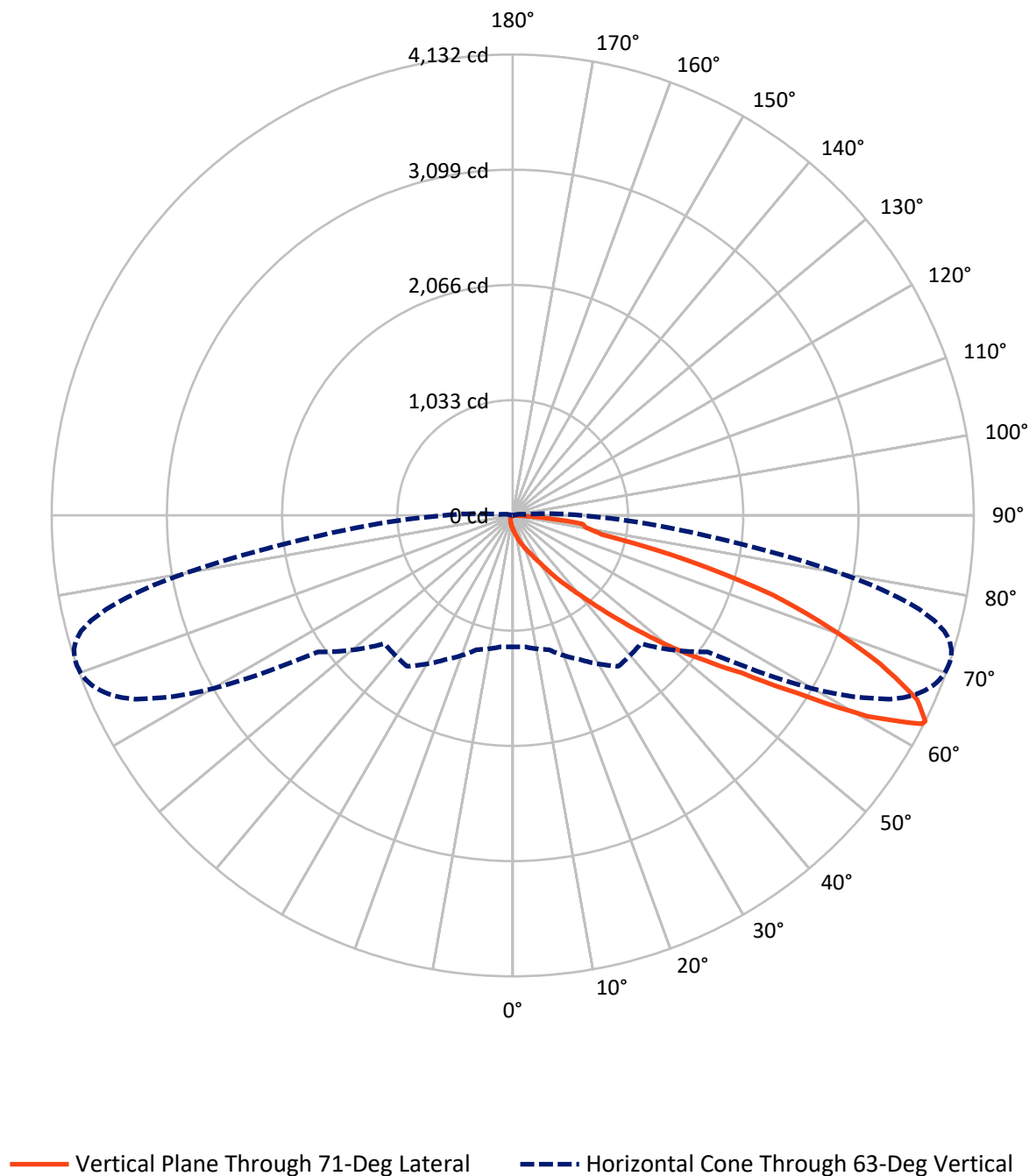


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 65.7     | 0.0    | 65.7   |
|                    | % Fixture | 2.1      | 0.0    | 2.1    |
| <b>Street Side</b> | Lumens    | 3029.3   | 0.0    | 3029.3 |
|                    | % Fixture | 97.9     | 0.0    | 97.9   |
| <b>Total</b>       | Lumens    | 3095.0   | 0.0    | 3095.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.1   | 0.4       |
| 10°-20°   | 50.9   | 1.6       |
| 20°-30°   | 103.4  | 3.3       |
| 30°-40°   | 252.5  | 8.2       |
| 40°-50°   | 564.8  | 18.2      |
| 50°-60°   | 794.2  | 25.7      |
| 60°-70°   | 933.9  | 30.2      |
| 70°-80°   | 337.2  | 10.9      |
| 80°-90°   | 45.1   | 1.5       |
| 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°    | 3095.0 | 100.0     |
| 0°-180°   | 3095.0 | 100.0     |

**Coefficient of Utilization**



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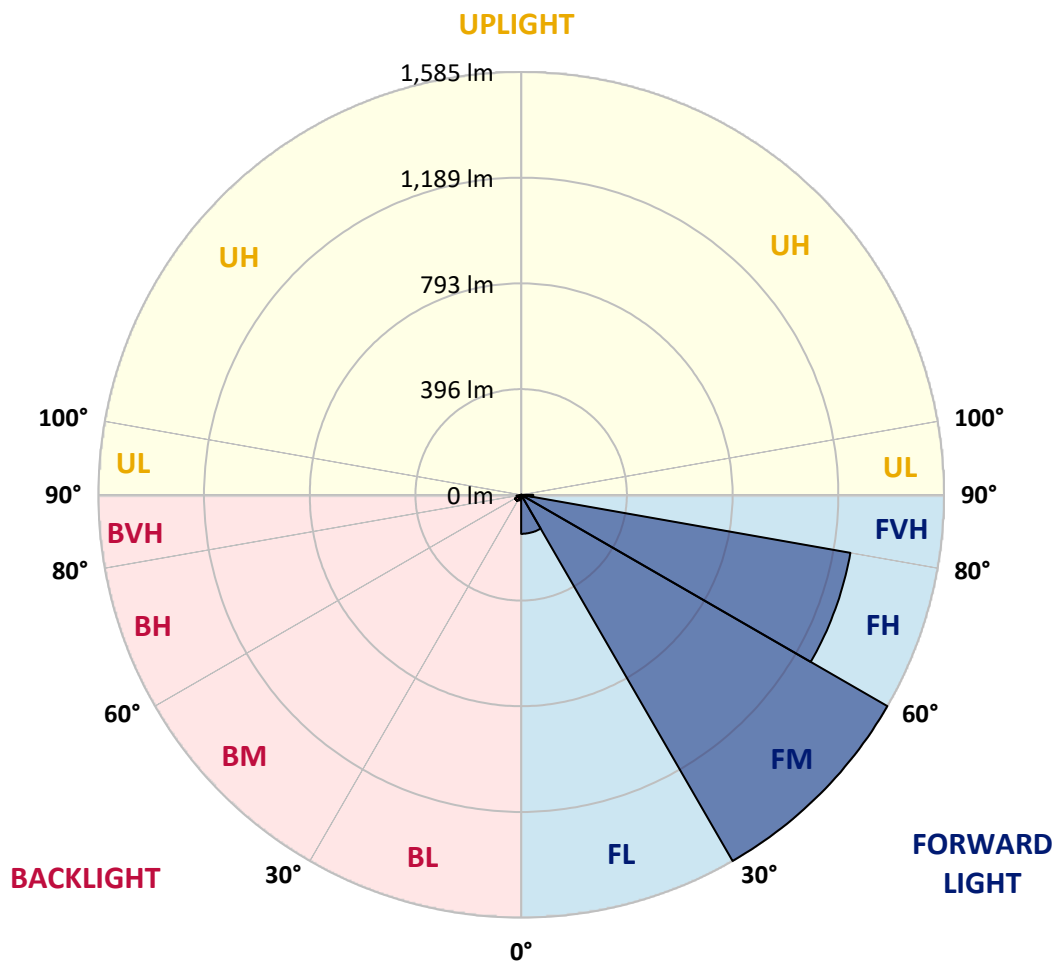
CATALOG NUMBER: AVS-E02-LED-E-U-SL2-HSS-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 146.3  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 1585.0 | 51.2      |                         |      |         |
| FH   | (60°-80°)   | 1253.1 | 40.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 45.0   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 21.1   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 26.5   | 0.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 18.0   | 0.6       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.1    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  |
| 2.5°  | 155.3  | 157.0  | 155.9  | 153.1  | 149.6  | 145.2  | 141.2  | 141.2  | 140.6  | 139.0  | 139.6  |
| 5°    | 203.7  | 204.2  | 202.0  | 195.2  | 189.0  | 179.5  | 168.8  | 167.7  | 166.5  | 164.9  | 164.2  |
| 7.5°  | 251.0  | 253.2  | 251.0  | 243.6  | 231.3  | 216.6  | 199.8  | 198.0  | 194.7  | 194.7  | 192.4  |
| 10°   | 299.4  | 299.4  | 297.1  | 288.6  | 277.4  | 256.6  | 235.2  | 232.3  | 228.4  | 227.4  | 223.9  |
| 12.5° | 333.7  | 333.7  | 332.5  | 328.1  | 319.1  | 300.4  | 274.6  | 271.8  | 266.7  | 265.0  | 261.0  |
| 15°   | 347.2  | 347.2  | 347.8  | 351.7  | 352.2  | 343.8  | 316.8  | 314.5  | 309.4  | 305.0  | 303.3  |
| 17.5° | 355.6  | 355.0  | 355.0  | 360.6  | 370.8  | 376.4  | 359.0  | 356.7  | 351.1  | 348.8  | 343.2  |
| 20°   | 374.2  | 373.1  | 369.6  | 369.6  | 379.3  | 399.0  | 399.0  | 398.3  | 392.1  | 390.5  | 387.7  |
| 22.5° | 401.8  | 400.6  | 390.5  | 382.1  | 386.5  | 411.3  | 434.4  | 433.3  | 431.0  | 428.7  | 427.0  |
| 25°   | 446.7  | 442.8  | 425.4  | 400.6  | 396.7  | 423.1  | 461.3  | 464.1  | 465.9  | 465.9  | 467.0  |
| 27.5° | 514.8  | 509.7  | 478.9  | 432.6  | 415.2  | 442.3  | 491.2  | 496.8  | 501.9  | 503.0  | 508.1  |
| 30°   | 609.3  | 600.3  | 556.0  | 488.4  | 448.4  | 470.4  | 535.1  | 541.2  | 548.6  | 550.9  | 558.8  |
| 32.5° | 764.7  | 759.6  | 716.8  | 615.5  | 530.1  | 525.5  | 596.4  | 604.2  | 613.9  | 617.8  | 627.4  |
| 35°   | 1000.9 | 1002.1 | 967.3  | 876.1  | 757.9  | 696.1  | 706.1  | 712.8  | 716.3  | 728.1  | 733.2  |
| 37.5° | 1161.3 | 1164.1 | 1172.0 | 1136.1 | 1051.6 | 988.6  | 909.2  | 916.6  | 899.2  | 900.8  | 901.3  |
| 40°   | 1249.1 | 1258.1 | 1304.2 | 1339.2 | 1332.3 | 1295.9 | 1232.2 | 1236.2 | 1203.5 | 1196.2 | 1160.7 |
| 42.5° | 1307.7 | 1319.5 | 1393.2 | 1501.1 | 1556.3 | 1589.5 | 1574.9 | 1573.2 | 1547.9 | 1538.3 | 1508.5 |
| 45°   | 1344.1 | 1354.9 | 1447.8 | 1606.9 | 1734.1 | 1830.9 | 1870.9 | 1875.3 | 1854.0 | 1844.4 | 1819.7 |
| 47.5° | 1342.5 | 1354.9 | 1454.5 | 1646.3 | 1833.7 | 1988.4 | 2100.9 | 2106.6 | 2119.6 | 2111.1 | 2112.7 |
| 50°   | 1268.2 | 1280.1 | 1380.2 | 1579.4 | 1804.5 | 2060.4 | 2266.4 | 2284.4 | 2305.2 | 2319.3 | 2326.0 |
| 52.5° | 1178.2 | 1186.6 | 1275.5 | 1464.6 | 1679.6 | 2030.7 | 2364.2 | 2395.2 | 2426.2 | 2452.6 | 2471.2 |
| 55°   | 1145.0 | 1154.6 | 1224.4 | 1381.3 | 1579.4 | 1905.7 | 2409.8 | 2455.4 | 2499.4 | 2542.7 | 2578.1 |
| 57.5° | 1162.5 | 1171.5 | 1221.6 | 1342.0 | 1519.8 | 1774.1 | 2422.8 | 2493.7 | 2565.7 | 2636.1 | 2705.8 |
| 60°   | 1226.6 | 1236.2 | 1279.0 | 1378.5 | 1504.0 | 1698.1 | 2372.2 | 2489.7 | 2609.6 | 2732.3 | 2847.7 |
| 62.5° | 1201.2 | 1205.2 | 1268.2 | 1442.7 | 1616.5 | 1633.4 | 2188.2 | 2352.4 | 2535.3 | 2724.4 | 2910.7 |
| 63°   | 1177.1 | 1181.6 | 1245.7 | 1425.2 | 1650.9 | 1623.8 | 2131.4 | 2304.7 | 2497.6 | 2701.3 | 2903.9 |
| 65°   | 1067.4 | 1068.0 | 1116.9 | 1258.7 | 1612.5 | 1640.7 | 1878.1 | 2043.6 | 2265.3 | 2509.4 | 2765.5 |
| 67.5° | 796.7  | 792.7  | 840.1  | 948.1  | 1266.0 | 1641.2 | 1612.0 | 1704.9 | 1859.1 | 2075.6 | 2305.2 |
| 70°   | 282.5  | 276.3  | 352.7  | 502.5  | 788.8  | 1342.5 | 1385.3 | 1391.5 | 1434.2 | 1551.3 | 1695.3 |
| 72.5° | 91.7   | 93.4   | 112.5  | 184.0  | 363.5  | 903.6  | 1254.2 | 1235.0 | 1223.8 | 1223.2 | 1242.4 |
| 75°   | 36.6   | 37.1   | 45.0   | 81.6   | 163.2  | 435.5  | 1098.3 | 1109.0 | 1113.0 | 1118.5 | 1124.8 |
| 77.5° | 17.4   | 19.2   | 25.3   | 45.6   | 81.0   | 215.5  | 786.0  | 876.6  | 928.4  | 968.3  | 992.5  |
| 80°   | 6.2    | 7.4    | 14.1   | 28.1   | 37.7   | 99.1   | 414.1  | 499.7  | 575.6  | 673.5  | 757.9  |
| 82.5° | 0.0    | 0.0    | 2.8    | 19.7   | 20.8   | 40.0   | 169.9  | 199.2  | 227.9  | 295.4  | 379.3  |
| 85°   | 0.0    | 0.0    | 0.0    | 5.6    | 6.2    | 6.7    | 57.4   | 69.2   | 77.6   | 90.6   | 104.7  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 1.7    | 3.4    | 8.4    | 13.0   |
| 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):**

|       | 60°    | 61°    | 62°    | 64°    | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  |
| 2.5°  | 138.4  | 137.8  | 137.8  | 136.7  | 136.2  | 135.0  | 134.5  | 132.7  | 132.2  | 132.2  | 132.2  |
| 5°    | 163.7  | 161.5  | 160.3  | 157.5  | 155.9  | 155.3  | 152.4  | 151.4  | 149.6  | 150.3  | 147.5  |
| 7.5°  | 191.9  | 188.0  | 186.2  | 182.3  | 181.1  | 177.2  | 176.1  | 173.3  | 171.6  | 168.2  | 167.2  |
| 10°   | 222.8  | 217.7  | 214.9  | 208.7  | 207.0  | 204.2  | 200.8  | 197.5  | 194.7  | 191.3  | 189.6  |
| 12.5° | 258.2  | 253.8  | 251.5  | 243.1  | 239.2  | 235.2  | 230.7  | 226.2  | 221.7  | 218.9  | 214.9  |
| 15°   | 299.9  | 292.5  | 290.4  | 282.5  | 275.8  | 270.7  | 264.5  | 258.9  | 255.4  | 249.8  | 245.9  |
| 17.5° | 340.9  | 333.7  | 332.0  | 320.1  | 312.8  | 309.4  | 302.7  | 295.4  | 289.2  | 283.6  | 277.4  |
| 20°   | 382.1  | 377.0  | 372.4  | 361.2  | 353.4  | 347.8  | 338.8  | 331.4  | 326.3  | 318.4  | 310.6  |
| 22.5° | 423.1  | 418.0  | 414.7  | 402.9  | 395.5  | 387.7  | 379.8  | 371.9  | 364.6  | 355.0  | 346.0  |
| 25°   | 465.3  | 462.0  | 460.2  | 449.5  | 442.8  | 435.5  | 427.7  | 418.7  | 409.6  | 399.0  | 389.3  |
| 27.5° | 509.2  | 510.4  | 506.9  | 504.7  | 497.4  | 492.3  | 480.0  | 473.8  | 467.0  | 454.1  | 442.3  |
| 30°   | 564.9  | 568.3  | 567.2  | 568.8  | 564.4  | 560.9  | 551.4  | 543.5  | 535.6  | 523.3  | 509.7  |
| 32.5° | 635.2  | 639.8  | 642.0  | 648.2  | 645.9  | 644.8  | 642.0  | 630.8  | 625.1  | 603.7  | 598.1  |
| 35°   | 743.8  | 741.6  | 751.2  | 756.2  | 754.0  | 752.8  | 749.4  | 743.3  | 736.5  | 721.3  | 707.3  |
| 37.5° | 885.1  | 887.4  | 890.7  | 880.5  | 873.8  | 873.3  | 863.1  | 856.9  | 847.4  | 830.5  | 813.6  |
| 40°   | 1143.9 | 1129.8 | 1114.1 | 1071.3 | 1052.7 | 1042.1 | 1012.2 | 1003.8 | 987.5  | 964.4  | 946.9  |
| 42.5° | 1480.3 | 1466.3 | 1419.1 | 1347.6 | 1309.3 | 1256.4 | 1232.2 | 1202.4 | 1179.4 | 1141.7 | 1121.3 |
| 45°   | 1814.6 | 1774.1 | 1768.4 | 1685.2 | 1637.9 | 1568.2 | 1524.8 | 1474.7 | 1422.4 | 1372.8 | 1336.9 |
| 47.5° | 2096.5 | 2087.5 | 2059.9 | 2009.2 | 1965.4 | 1906.8 | 1851.2 | 1774.1 | 1720.1 | 1649.7 | 1585.0 |
| 50°   | 2322.1 | 2321.6 | 2311.4 | 2282.2 | 2245.6 | 2198.3 | 2149.3 | 2084.1 | 2022.8 | 1936.7 | 1867.5 |
| 52.5° | 2490.9 | 2499.9 | 2503.3 | 2494.3 | 2480.2 | 2438.5 | 2413.8 | 2359.3 | 2307.5 | 2234.3 | 2159.5 |
| 55°   | 2614.7 | 2647.9 | 2664.8 | 2683.9 | 2680.0 | 2665.3 | 2664.2 | 2628.7 | 2605.1 | 2547.2 | 2494.3 |
| 57.5° | 2767.8 | 2822.3 | 2874.6 | 2967.5 | 2970.9 | 3003.5 | 3020.3 | 3037.2 | 3041.8 | 3018.7 | 3001.2 |
| 60°   | 2962.4 | 3073.8 | 3172.8 | 3366.9 | 3417.6 | 3497.5 | 3549.2 | 3605.5 | 3653.4 | 3657.3 | 3656.2 |
| 62.5° | 3099.7 | 3271.3 | 3431.1 | 3719.2 | 3817.6 | 3909.9 | 3979.2 | 4033.7 | 4066.9 | 4100.6 | 4116.5 |
| 63°   | 3103.6 | 3291.6 | 3461.5 | 3758.5 | 3862.1 | 3949.8 | 4015.8 | 4066.3 | 4101.2 | 4121.5 | 4131.6 |
| 65°   | 3008.5 | 3236.4 | 3439.0 | 3734.9 | 3832.3 | 3920.6 | 3954.9 | 3988.2 | 4005.0 | 4012.8 | 3983.1 |
| 67.5° | 2549.9 | 2772.7 | 3009.1 | 3340.0 | 3423.2 | 3529.0 | 3557.1 | 3574.0 | 3581.9 | 3580.2 | 3554.9 |
| 70°   | 1906.8 | 2093.7 | 2356.4 | 2734.5 | 2844.8 | 2948.3 | 3012.4 | 3040.1 | 3049.0 | 3046.2 | 3008.5 |
| 72.5° | 1331.3 | 1440.9 | 1657.6 | 2078.4 | 2228.7 | 2361.5 | 2440.8 | 2481.9 | 2490.4 | 2473.5 | 2438.5 |
| 75°   | 1118.0 | 1123.6 | 1172.5 | 1402.7 | 1543.4 | 1685.2 | 1774.6 | 1800.5 | 1783.6 | 1732.4 | 1643.5 |
| 77.5° | 998.1  | 1010.6 | 1010.6 | 1044.9 | 1072.4 | 1111.8 | 1120.2 | 1057.2 | 984.1  | 889.5  | 813.1  |
| 80°   | 837.2  | 880.5  | 911.0  | 936.3  | 939.1  | 931.2  | 910.4  | 874.9  | 818.7  | 746.6  | 666.7  |
| 82.5° | 508.6  | 594.2  | 629.0  | 759.6  | 823.7  | 867.0  | 863.7  | 816.4  | 773.7  | 698.9  | 630.8  |
| 85°   | 128.3  | 138.4  | 150.3  | 195.2  | 218.9  | 267.3  | 297.6  | 311.7  | 316.8  | 290.9  | 263.3  |
| 87.5° | 12.3   | 8.4    | 14.1   | 10.7   | 15.2   | 11.3   | 15.2   | 14.1   | 17.4   | 18.5   | 20.2   |
| 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):**

|       | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  |
| 2.5°  | 131.1  | 130.6  | 129.9  | 129.4  | 128.8  | 128.3  | 127.2  | 127.2  | 126.0  | 125.5  | 124.9  |
| 5°    | 145.7  | 144.6  | 144.0  | 142.9  | 141.2  | 140.1  | 138.4  | 136.2  | 134.5  | 133.9  | 132.7  |
| 7.5°  | 164.2  | 161.5  | 160.3  | 158.7  | 156.4  | 153.1  | 150.8  | 149.1  | 146.3  | 144.6  | 141.2  |
| 10°   | 185.1  | 182.3  | 179.0  | 175.5  | 172.1  | 168.2  | 165.4  | 163.2  | 158.7  | 156.4  | 152.4  |
| 12.5° | 211.6  | 206.5  | 202.6  | 198.0  | 193.6  | 189.0  | 185.7  | 179.0  | 175.0  | 169.9  | 166.5  |
| 15°   | 238.5  | 234.1  | 229.5  | 223.9  | 217.2  | 209.8  | 206.5  | 200.3  | 195.2  | 187.4  | 182.9  |
| 17.5° | 271.2  | 262.8  | 256.1  | 249.2  | 243.1  | 236.3  | 229.5  | 220.0  | 212.6  | 205.9  | 196.9  |
| 20°   | 303.3  | 293.2  | 285.8  | 276.8  | 267.9  | 257.1  | 249.2  | 242.5  | 232.3  | 223.4  | 213.8  |
| 22.5° | 337.6  | 327.5  | 315.6  | 306.6  | 294.3  | 285.8  | 275.1  | 263.9  | 253.8  | 242.0  | 230.2  |
| 25°   | 379.3  | 368.5  | 355.0  | 343.2  | 329.1  | 317.3  | 304.4  | 291.5  | 279.1  | 265.6  | 250.4  |
| 27.5° | 430.5  | 419.2  | 404.6  | 390.5  | 371.9  | 357.3  | 344.9  | 327.5  | 311.7  | 294.8  | 277.4  |
| 30°   | 495.1  | 482.8  | 464.8  | 444.5  | 425.9  | 409.6  | 392.1  | 369.1  | 351.7  | 331.4  | 308.9  |
| 32.5° | 579.6  | 564.9  | 540.7  | 521.6  | 498.5  | 477.1  | 453.0  | 429.8  | 405.1  | 378.7  | 352.7  |
| 35°   | 685.9  | 672.3  | 644.2  | 616.1  | 590.8  | 565.5  | 535.1  | 508.6  | 473.8  | 441.7  | 408.5  |
| 37.5° | 796.2  | 772.0  | 746.1  | 715.8  | 684.1  | 653.8  | 616.7  | 580.1  | 540.1  | 505.3  | 463.6  |
| 40°   | 922.2  | 893.0  | 871.6  | 839.0  | 794.5  | 751.2  | 716.8  | 671.3  | 621.1  | 574.5  | 525.5  |
| 42.5° | 1094.9 | 1062.3 | 1024.0 | 974.5  | 942.5  | 891.8  | 847.4  | 793.4  | 727.6  | 675.2  | 616.1  |
| 45°   | 1294.7 | 1250.3 | 1213.1 | 1165.3 | 1126.4 | 1063.4 | 1011.7 | 939.7  | 873.8  | 805.2  | 733.2  |
| 47.5° | 1522.6 | 1467.5 | 1413.4 | 1366.1 | 1304.2 | 1242.4 | 1176.5 | 1100.0 | 1015.6 | 940.2  | 854.7  |
| 50°   | 1784.1 | 1706.0 | 1631.2 | 1570.4 | 1485.4 | 1414.0 | 1342.5 | 1256.4 | 1163.0 | 1076.4 | 979.1  |
| 52.5° | 2075.1 | 1984.5 | 1885.5 | 1792.1 | 1693.6 | 1601.9 | 1515.9 | 1416.8 | 1312.6 | 1206.9 | 1098.3 |
| 55°   | 2426.2 | 2358.1 | 2241.7 | 2122.9 | 1991.3 | 1868.6 | 1757.7 | 1635.1 | 1508.5 | 1369.5 | 1255.3 |
| 57.5° | 2976.0 | 2942.7 | 2845.4 | 2726.6 | 2555.0 | 2405.9 | 2218.0 | 2067.8 | 1884.4 | 1693.1 | 1545.6 |
| 60°   | 3720.8 | 3679.8 | 3625.2 | 3529.0 | 3392.8 | 3190.3 | 2983.2 | 2749.7 | 2470.7 | 2205.6 | 1954.1 |
| 62.5° | 4118.1 | 4103.5 | 4059.1 | 3992.6 | 3865.5 | 3705.7 | 3496.9 | 3240.3 | 2925.3 | 2603.4 | 2282.7 |
| 63°   | 4129.9 | 4111.4 | 4073.1 | 4005.6 | 3893.6 | 3738.9 | 3534.1 | 3284.8 | 2976.5 | 2648.4 | 2320.9 |
| 65°   | 3970.2 | 3962.8 | 3924.0 | 3850.3 | 3773.8 | 3655.6 | 3496.9 | 3282.6 | 3023.7 | 2713.7 | 2388.0 |
| 67.5° | 3521.1 | 3499.2 | 3439.6 | 3417.0 | 3363.6 | 3281.5 | 3160.4 | 3013.1 | 2828.0 | 2584.2 | 2303.0 |
| 70°   | 2978.1 | 2945.5 | 2870.7 | 2830.8 | 2765.5 | 2713.7 | 2640.0 | 2534.8 | 2420.5 | 2250.7 | 2040.7 |
| 72.5° | 2402.6 | 2335.0 | 2266.4 | 2162.3 | 2071.2 | 1978.9 | 1897.3 | 1823.0 | 1697.5 | 1628.9 | 1469.6 |
| 75°   | 1560.2 | 1437.6 | 1320.0 | 1162.5 | 1020.6 | 895.2  | 773.1  | 711.2  | 582.4  | 530.1  | 455.2  |
| 77.5° | 740.4  | 671.8  | 579.6  | 508.1  | 416.9  | 340.4  | 277.9  | 208.7  | 163.7  | 128.3  | 97.9   |
| 80°   | 597.5  | 539.6  | 483.9  | 419.2  | 350.6  | 279.7  | 214.4  | 160.3  | 113.7  | 78.8   | 55.8   |
| 82.5° | 532.8  | 469.8  | 401.1  | 356.7  | 310.1  | 253.8  | 208.2  | 169.9  | 125.5  | 91.7   | 62.5   |
| 85°   | 207.0  | 174.4  | 134.5  | 109.7  | 85.5   | 70.4   | 63.6   | 43.9   | 34.3   | 27.0   | 20.8   |
| 87.5° | 18.0   | 14.6   | 11.8   | 7.9    | 8.4    | 4.5    | 5.1    | 3.4    | 2.8    | 2.8    | 2.3    |
| 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):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°   | 89°   | 90°   | 95°   | 105°  | 115°  |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0°    | 118.8  | 118.8  | 118.8  | 118.8  | 118.8  | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 |
| 2.5°  | 124.4  | 123.8  | 123.2  | 122.1  | 122.1  | 120.9 | 120.4 | 119.9 | 117.0 | 110.9 | 105.8 |
| 5°    | 130.6  | 129.4  | 128.3  | 126.6  | 125.5  | 123.8 | 122.7 | 120.9 | 114.8 | 103.0 | 92.8  |
| 7.5°  | 139.6  | 137.3  | 135.6  | 132.2  | 130.6  | 128.3 | 126.6 | 123.8 | 113.7 | 95.6  | 81.6  |
| 10°   | 150.3  | 146.3  | 143.5  | 139.6  | 136.2  | 133.4 | 130.6 | 126.6 | 112.5 | 87.8  | 71.5  |
| 12.5° | 163.2  | 158.7  | 153.1  | 148.5  | 144.0  | 140.1 | 136.2 | 131.1 | 110.9 | 81.0  | 63.6  |
| 15°   | 176.1  | 169.3  | 165.4  | 159.3  | 153.1  | 147.5 | 141.8 | 137.3 | 111.4 | 73.7  | 56.8  |
| 17.5° | 190.8  | 184.0  | 175.5  | 168.8  | 162.1  | 154.7 | 148.0 | 139.0 | 108.6 | 68.1  | 51.8  |
| 20°   | 204.8  | 195.2  | 187.4  | 179.0  | 169.3  | 160.3 | 151.9 | 144.0 | 106.3 | 62.5  | 47.3  |
| 22.5° | 220.0  | 208.7  | 198.7  | 188.0  | 176.1  | 166.0 | 155.9 | 145.7 | 102.4 | 57.4  | 43.3  |
| 25°   | 238.5  | 225.6  | 211.0  | 198.0  | 185.7  | 173.3 | 160.3 | 148.0 | 98.4  | 52.8  | 40.5  |
| 27.5° | 261.0  | 244.1  | 229.5  | 213.3  | 195.9  | 180.0 | 166.0 | 152.4 | 94.5  | 49.5  | 37.7  |
| 30°   | 289.7  | 270.1  | 249.2  | 228.4  | 209.8  | 191.9 | 172.1 | 155.3 | 90.6  | 46.1  | 34.9  |
| 32.5° | 328.1  | 303.3  | 277.9  | 253.8  | 229.0  | 205.9 | 185.1 | 163.2 | 88.3  | 43.3  | 32.0  |
| 35°   | 378.7  | 346.6  | 315.6  | 285.3  | 255.4  | 227.4 | 200.3 | 175.5 | 88.3  | 40.0  | 28.7  |
| 37.5° | 426.5  | 389.3  | 349.9  | 312.2  | 276.8  | 244.1 | 212.1 | 182.3 | 83.8  | 37.1  | 25.9  |
| 40°   | 478.2  | 433.8  | 387.7  | 343.2  | 300.4  | 260.0 | 223.4 | 189.0 | 79.9  | 33.8  | 23.1  |
| 42.5° | 557.6  | 501.3  | 441.1  | 389.3  | 338.1  | 288.1 | 242.5 | 202.0 | 74.8  | 30.4  | 20.2  |
| 45°   | 661.7  | 590.3  | 519.4  | 456.3  | 391.1  | 329.7 | 275.8 | 225.6 | 73.7  | 27.6  | 17.4  |
| 47.5° | 773.1  | 688.7  | 605.4  | 525.0  | 448.4  | 377.0 | 312.2 | 252.0 | 73.7  | 24.8  | 15.2  |
| 50°   | 883.9  | 778.1  | 689.2  | 595.9  | 509.7  | 425.4 | 348.3 | 279.7 | 74.3  | 22.5  | 12.3  |
| 52.5° | 984.1  | 871.0  | 771.4  | 663.4  | 568.3  | 470.4 | 386.5 | 306.6 | 73.2  | 19.7  | 10.2  |
| 55°   | 1123.1 | 990.3  | 874.9  | 755.6  | 644.2  | 534.0 | 438.9 | 347.2 | 73.7  | 17.4  | 8.4   |
| 57.5° | 1379.1 | 1223.2 | 1084.2 | 927.9  | 799.6  | 657.2 | 541.9 | 430.5 | 80.4  | 14.6  | 6.2   |
| 60°   | 1746.5 | 1543.9 | 1348.7 | 1157.9 | 994.8  | 825.4 | 675.8 | 544.7 | 94.5  | 11.8  | 4.5   |
| 62.5° | 1993.5 | 1728.5 | 1495.5 | 1285.1 | 1095.5 | 918.2 | 755.1 | 606.0 | 104.0 | 9.5   | 2.8   |
| 63°   | 2018.9 | 1744.8 | 1510.8 | 1293.6 | 1100.0 | 922.8 | 758.4 | 610.5 | 104.7 | 9.0   | 2.8   |
| 65°   | 2066.6 | 1773.0 | 1519.2 | 1295.2 | 1095.5 | 916.6 | 756.2 | 609.9 | 105.8 | 7.4   | 2.3   |
| 67.5° | 2012.1 | 1729.6 | 1470.3 | 1246.8 | 1056.1 | 880.0 | 728.1 | 587.5 | 105.2 | 5.1   | 1.7   |
| 70°   | 1799.4 | 1565.3 | 1337.4 | 1129.2 | 956.0  | 796.7 | 662.8 | 535.6 | 96.8  | 3.4   | 1.1   |
| 72.5° | 1321.1 | 1161.9 | 985.2  | 835.0  | 720.2  | 598.1 | 510.4 | 402.3 | 74.8  | 2.3   | 0.5   |
| 75°   | 391.6  | 356.7  | 299.9  | 264.5  | 233.5  | 193.0 | 171.6 | 133.9 | 38.2  | 1.1   | 0.0   |
| 77.5° | 78.2   | 70.9   | 63.6   | 57.9   | 54.6   | 46.7  | 44.5  | 36.6  | 15.8  | 0.5   | 0.0   |
| 80°   | 41.0   | 33.8   | 28.7   | 25.3   | 22.0   | 18.0  | 15.2  | 12.3  | 2.8   | 0.0   | 0.0   |
| 82.5° | 39.4   | 26.4   | 19.2   | 15.8   | 13.5   | 10.7  | 8.4   | 6.2   | 1.7   | 0.0   | 0.0   |
| 85°   | 14.6   | 11.3   | 8.4    | 6.7    | 5.6    | 5.1   | 3.9   | 3.4   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.3    | 1.7    | 1.7    | 1.1    | 1.1    | 0.5   | 0.5   | 0.5   | 0.0   | 0.0   | 0.0   |
| 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):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 |
| 2.5°  | 100.7 | 96.2  | 94.0  | 91.2  | 91.2  | 90.6  | 91.7  |
| 5°    | 83.8  | 77.6  | 73.2  | 69.7  | 70.4  | 68.6  | 69.2  |
| 7.5°  | 70.9  | 64.7  | 60.7  | 58.5  | 57.9  | 57.4  | 57.4  |
| 10°   | 61.3  | 55.8  | 52.3  | 50.7  | 50.1  | 50.1  | 50.1  |
| 12.5° | 54.6  | 48.9  | 46.1  | 45.0  | 45.0  | 44.5  | 44.5  |
| 15°   | 48.9  | 44.5  | 41.7  | 40.5  | 40.5  | 40.0  | 40.5  |
| 17.5° | 44.5  | 40.0  | 37.7  | 36.6  | 36.6  | 36.0  | 36.0  |
| 20°   | 40.5  | 36.6  | 34.3  | 32.6  | 32.6  | 32.0  | 32.6  |
| 22.5° | 37.1  | 33.2  | 30.4  | 29.2  | 28.7  | 28.1  | 28.7  |
| 25°   | 33.8  | 29.8  | 27.0  | 25.3  | 24.8  | 24.8  | 24.1  |
| 27.5° | 31.0  | 27.0  | 23.6  | 22.0  | 21.3  | 21.3  | 20.8  |
| 30°   | 28.1  | 23.6  | 20.2  | 18.5  | 18.0  | 18.0  | 18.0  |
| 32.5° | 25.3  | 20.2  | 17.4  | 15.8  | 15.2  | 15.2  | 15.2  |
| 35°   | 22.5  | 17.4  | 14.6  | 13.0  | 12.3  | 12.3  | 12.3  |
| 37.5° | 19.2  | 14.6  | 11.3  | 10.2  | 9.5   | 9.0   | 9.0   |
| 40°   | 16.3  | 11.3  | 8.4   | 7.4   | 6.2   | 6.2   | 6.2   |
| 42.5° | 13.5  | 9.0   | 6.2   | 4.5   | 3.9   | 3.4   | 3.9   |
| 45°   | 11.3  | 6.7   | 3.9   | 2.3   | 1.7   | 1.7   | 1.7   |
| 47.5° | 9.0   | 4.5   | 1.7   | 0.5   | 0.5   | 0.5   | 0.5   |
| 50°   | 6.7   | 2.8   | 0.5   | 0.0   | 0.0   | 0.5   | 0.5   |
| 52.5° | 5.1   | 1.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 2.8   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 1.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 63°   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)