

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: P153761

Luminaire Tested: **AVS-E04-LED-E-U-SLR-7050**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P153761  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-E04-LED-E-U-SLR-7050  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (84) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11420.4 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 97.2  
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

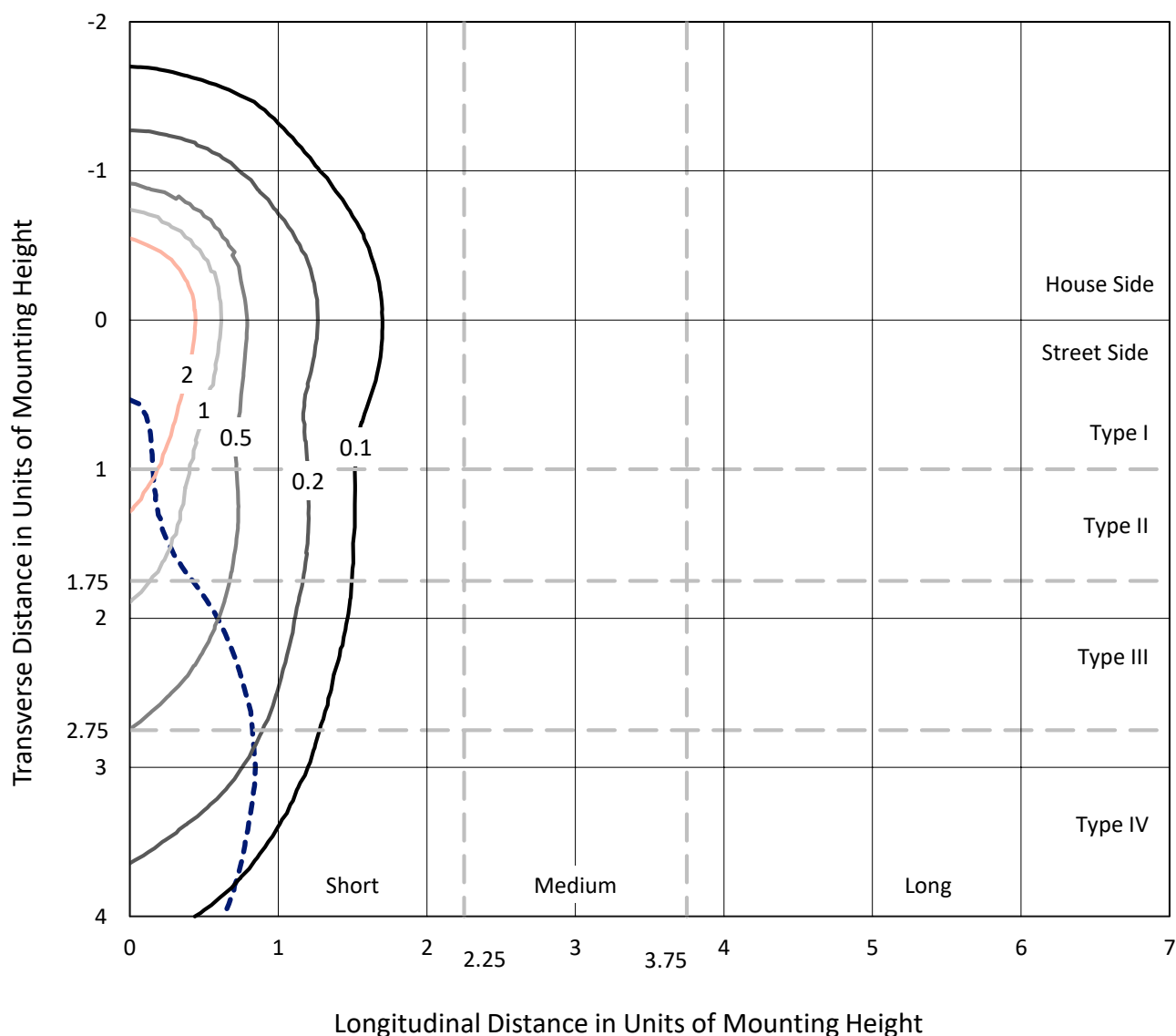


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

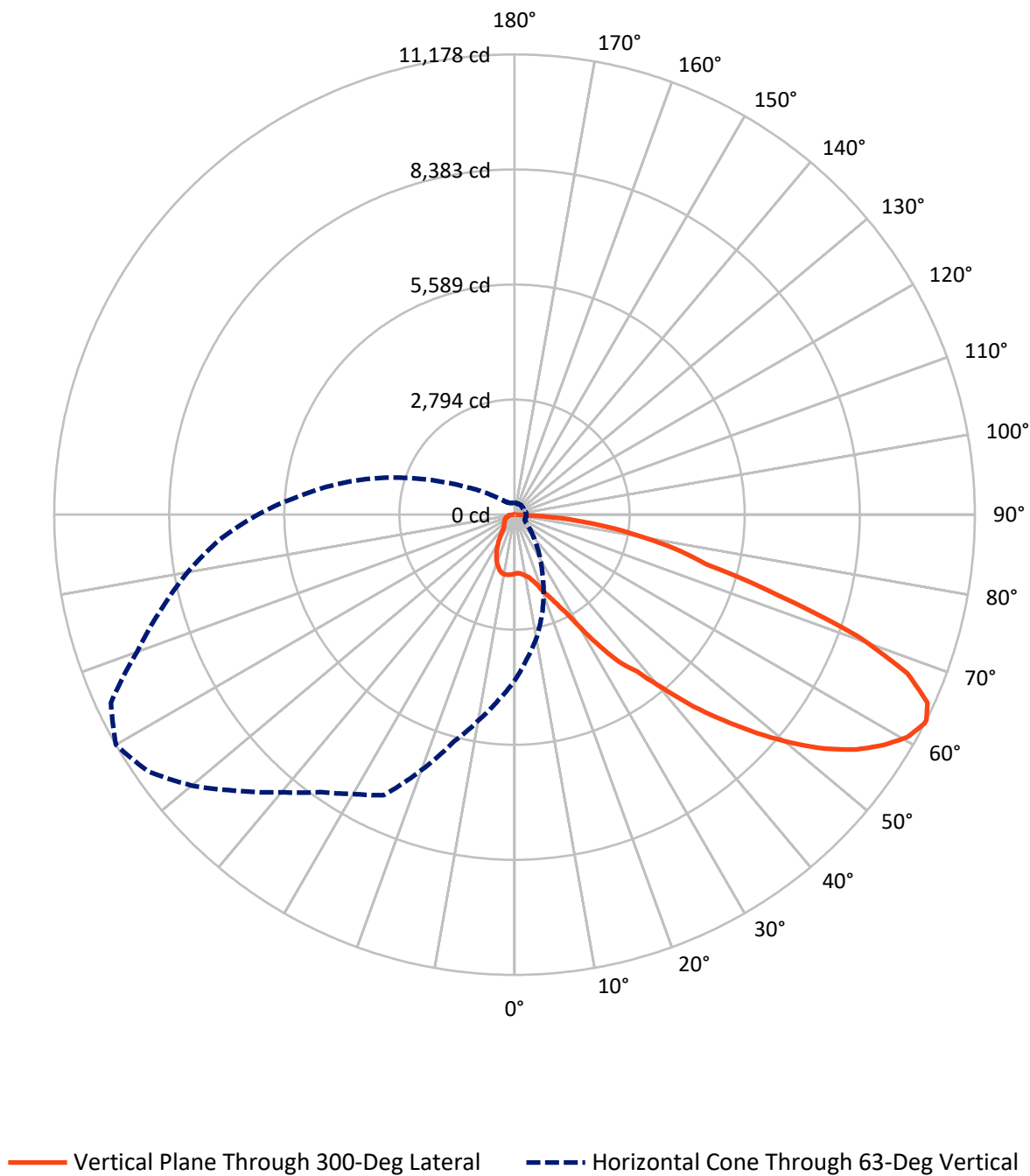


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2476.5   | 0.0    | 2476.5  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 8943.9   | 0.0    | 8943.9  |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 11420.4  | 0.0    | 11420.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 139.7   | 1.2       |
| 10°-20°   | 435.1   | 3.8       |
| 20°-30°   | 773.0   | 6.8       |
| 30°-40°   | 1217.3  | 10.7      |
| 40°-50°   | 1791.4  | 15.7      |
| 50°-60°   | 2379.5  | 20.8      |
| 60°-70°   | 2621.1  | 23.0      |
| 70°-80°   | 1644.4  | 14.4      |
| 80°-90°   | 418.8   | 3.7       |
| 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°    | 11420.4 | 100.0     |
| 0°-180°   | 11420.4 | 100.0     |

**Coefficient of Utilization**



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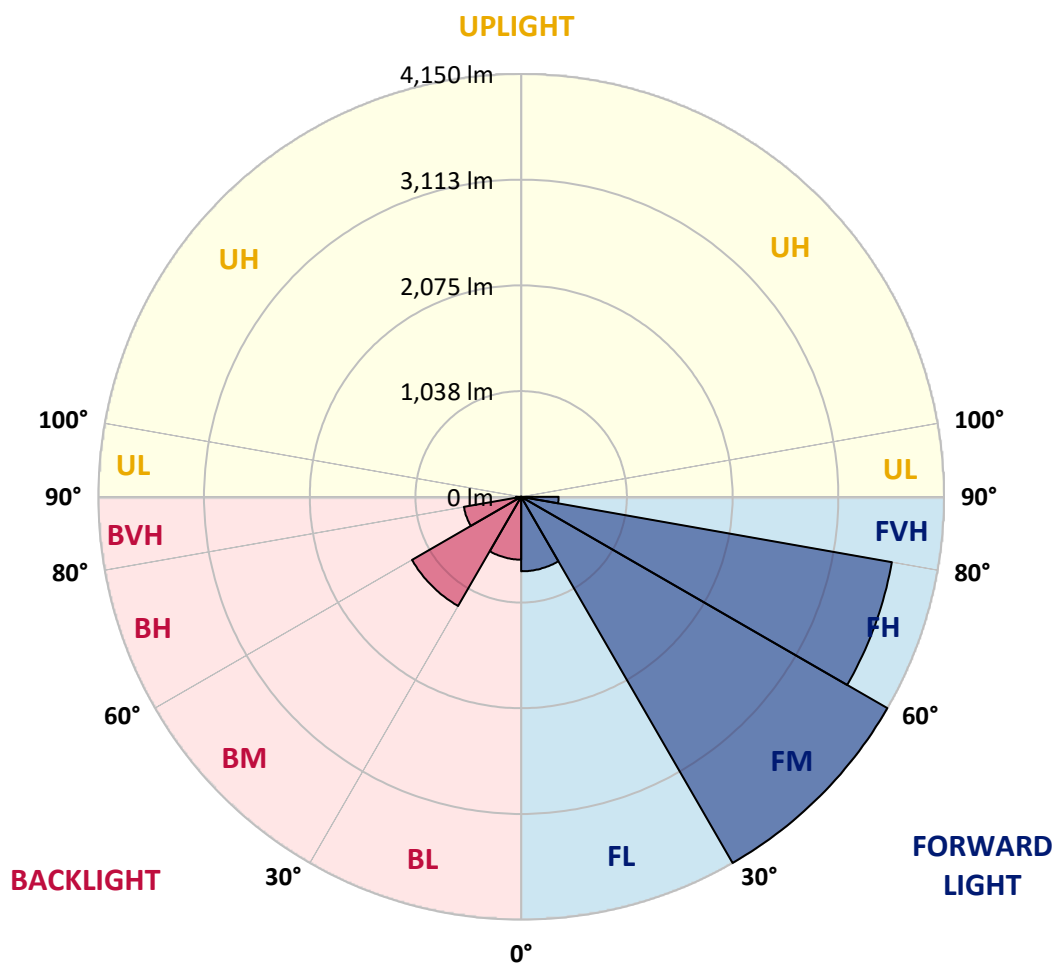
CATALOG NUMBER: AVS-E04-LED-E-U-SLR-7050

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 731.3  | 6.4       |                         |      |         |
| FM   | (30°-60°)   | 4150.4 | 36.3      |                         |      |         |
| FH   | (60°-80°)   | 3694.7 | 32.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 367.5  | 3.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 616.5  | 5.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1237.8 | 10.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 570.8  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 51.3   | 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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5°  | 1416.1 | 1420.1 | 1418.8 | 1418.8 | 1421.5 | 1420.1 | 1420.1 | 1421.5 | 1421.5 | 1425.6 | 1431.1 |
| 5°    | 1405.1 | 1403.7 | 1400.9 | 1403.7 | 1403.7 | 1403.7 | 1398.2 | 1402.4 | 1403.7 | 1406.4 | 1406.4 |
| 7.5°  | 1418.8 | 1414.6 | 1409.2 | 1410.6 | 1410.6 | 1407.8 | 1403.7 | 1405.1 | 1403.7 | 1403.7 | 1402.4 |
| 10°   | 1436.6 | 1426.9 | 1420.1 | 1420.1 | 1420.1 | 1417.4 | 1410.6 | 1414.6 | 1414.6 | 1413.3 | 1414.6 |
| 12.5° | 1468.0 | 1457.1 | 1448.9 | 1446.1 | 1446.1 | 1442.0 | 1436.6 | 1442.0 | 1439.3 | 1439.3 | 1436.6 |
| 15°   | 1520.0 | 1507.7 | 1498.1 | 1489.9 | 1491.3 | 1491.3 | 1484.5 | 1480.3 | 1474.8 | 1468.0 | 1454.3 |
| 17.5° | 1598.0 | 1584.4 | 1572.0 | 1565.2 | 1566.5 | 1557.0 | 1537.8 | 1518.7 | 1492.6 | 1466.6 | 1437.9 |
| 20°   | 1708.8 | 1704.7 | 1688.3 | 1681.5 | 1665.1 | 1641.8 | 1588.4 | 1543.2 | 1492.6 | 1443.4 | 1394.1 |
| 22.5° | 1900.3 | 1881.2 | 1864.8 | 1838.8 | 1784.0 | 1719.8 | 1630.8 | 1551.5 | 1472.1 | 1402.4 | 1336.7 |
| 25°   | 2157.5 | 2123.3 | 2042.6 | 1963.3 | 1851.1 | 1736.2 | 1615.8 | 1513.2 | 1414.6 | 1323.0 | 1242.3 |
| 27.5° | 2410.7 | 2306.7 | 2163.0 | 2019.4 | 1855.2 | 1704.7 | 1554.2 | 1432.4 | 1317.5 | 1217.6 | 1128.7 |
| 30°   | 2717.1 | 2542.0 | 2321.8 | 2094.6 | 1862.1 | 1659.6 | 1479.0 | 1336.7 | 1203.9 | 1098.7 | 1005.6 |
| 32.5° | 3004.5 | 2751.3 | 2462.7 | 2164.4 | 1877.1 | 1617.1 | 1392.7 | 1231.3 | 1094.5 | 961.8  | 870.2  |
| 35°   | 3201.5 | 2873.1 | 2522.9 | 2171.2 | 1840.1 | 1536.4 | 1284.7 | 1094.5 | 957.7  | 834.6  | 726.5  |
| 37.5° | 3319.1 | 2926.4 | 2525.6 | 2122.0 | 1754.0 | 1426.9 | 1147.9 | 959.1  | 833.2  | 715.5  | 630.7  |
| 40°   | 3393.0 | 2938.8 | 2490.1 | 2050.9 | 1644.5 | 1288.8 | 1011.1 | 841.5  | 726.5  | 632.1  | 566.4  |
| 42.5° | 3428.6 | 2919.6 | 2432.5 | 1960.5 | 1533.7 | 1165.7 | 915.3  | 755.2  | 655.3  | 588.3  | 539.1  |
| 45°   | 3434.0 | 2885.4 | 2371.0 | 1878.4 | 1435.1 | 1076.7 | 849.6  | 719.7  | 637.5  | 581.5  | 532.2  |
| 47.5° | 3434.0 | 2855.3 | 2321.8 | 1818.2 | 1370.9 | 1038.4 | 844.1  | 734.7  | 654.0  | 591.1  | 532.2  |
| 50°   | 3436.8 | 2845.7 | 2301.2 | 1788.2 | 1349.0 | 1059.0 | 890.7  | 781.2  | 689.5  | 607.5  | 530.9  |
| 52.5° | 3449.1 | 2858.0 | 2317.6 | 1811.4 | 1388.7 | 1141.0 | 978.2  | 851.0  | 736.1  | 626.6  | 530.9  |
| 55°   | 3476.5 | 2899.1 | 2387.4 | 1892.1 | 1495.3 | 1265.5 | 1083.5 | 926.2  | 773.0  | 634.8  | 522.6  |
| 57.5° | 3553.1 | 3003.1 | 2514.6 | 2048.1 | 1677.3 | 1409.2 | 1179.4 | 979.6  | 786.6  | 628.0  | 506.2  |
| 60°   | 3706.3 | 3209.6 | 2732.2 | 2267.0 | 1870.3 | 1532.3 | 1235.4 | 987.8  | 774.4  | 606.1  | 480.2  |
| 62.5° | 3951.2 | 3446.3 | 2996.3 | 2505.1 | 2041.2 | 1600.7 | 1242.3 | 967.3  | 741.6  | 566.4  | 441.9  |
| 63°   | 4036.1 | 3505.2 | 3052.3 | 2550.3 | 2063.1 | 1606.2 | 1236.8 | 959.1  | 733.4  | 555.4  | 436.5  |
| 65°   | 4272.7 | 3752.8 | 3246.6 | 2708.9 | 2124.8 | 1607.6 | 1206.7 | 918.0  | 695.0  | 513.1  | 398.1  |
| 67.5° | 4714.6 | 4078.4 | 3491.5 | 2833.4 | 2146.6 | 1563.8 | 1130.1 | 841.5  | 614.3  | 447.4  | 350.3  |
| 70°   | 4993.7 | 4260.4 | 3585.9 | 2836.2 | 2082.3 | 1439.3 | 997.4  | 716.9  | 511.7  | 370.8  | 301.0  |
| 72.5° | 4921.2 | 4081.1 | 3336.9 | 2580.3 | 1804.6 | 1202.6 | 801.8  | 563.6  | 399.5  | 296.9  | 250.4  |
| 75°   | 4215.2 | 3397.1 | 2722.6 | 1998.9 | 1364.0 | 883.8  | 586.9  | 402.3  | 295.5  | 232.5  | 209.3  |
| 77.5° | 3034.5 | 2444.9 | 1952.3 | 1424.2 | 919.4  | 571.9  | 389.9  | 287.4  | 224.4  | 191.5  | 172.4  |
| 80°   | 1933.2 | 1433.8 | 1194.4 | 856.5  | 537.7  | 354.3  | 268.2  | 217.5  | 184.7  | 160.1  | 147.8  |
| 82.5° | 1009.6 | 707.4  | 574.6  | 437.8  | 298.2  | 234.0  | 197.0  | 177.8  | 151.8  | 132.7  | 125.9  |
| 85°   | 629.3  | 417.3  | 309.2  | 216.2  | 149.1  | 134.1  | 123.1  | 120.4  | 108.1  | 95.8   | 91.7   |
| 87.5° | 71.2   | 64.4   | 67.0   | 42.4   | 31.5   | 34.2   | 32.8   | 43.7   | 42.4   | 31.5   | 32.8   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5°  | 1425.6 | 1428.3 | 1428.3 | 1432.4 | 1432.4 | 1435.1 | 1437.9 | 1437.9 | 1440.6 | 1442.0 | 1444.8 |
| 5°    | 1409.2 | 1409.2 | 1409.2 | 1414.6 | 1416.1 | 1424.2 | 1426.9 | 1429.7 | 1432.4 | 1442.0 | 1447.5 |
| 7.5°  | 1405.1 | 1399.6 | 1402.4 | 1402.4 | 1406.4 | 1413.3 | 1420.1 | 1424.2 | 1428.3 | 1440.6 | 1448.9 |
| 10°   | 1413.3 | 1409.2 | 1405.1 | 1405.1 | 1406.4 | 1409.2 | 1414.6 | 1418.8 | 1421.5 | 1433.8 | 1440.6 |
| 12.5° | 1435.1 | 1425.6 | 1417.4 | 1410.6 | 1405.1 | 1403.7 | 1400.9 | 1402.4 | 1405.1 | 1411.9 | 1421.5 |
| 15°   | 1439.3 | 1421.5 | 1403.7 | 1385.9 | 1372.2 | 1364.0 | 1357.2 | 1354.5 | 1354.5 | 1358.5 | 1369.5 |
| 17.5° | 1411.9 | 1381.9 | 1355.9 | 1332.5 | 1317.5 | 1302.5 | 1295.6 | 1290.2 | 1287.5 | 1292.8 | 1294.3 |
| 20°   | 1353.1 | 1317.5 | 1282.0 | 1254.6 | 1227.3 | 1223.1 | 1212.1 | 1214.9 | 1217.6 | 1225.8 | 1229.9 |
| 22.5° | 1272.3 | 1229.9 | 1186.2 | 1157.4 | 1135.5 | 1116.4 | 1104.0 | 1109.5 | 1113.7 | 1121.9 | 1126.0 |
| 25°   | 1173.9 | 1112.3 | 1065.8 | 1037.1 | 1013.8 | 997.4  | 983.7  | 989.1  | 983.7  | 993.3  | 1008.3 |
| 27.5° | 1057.6 | 985.1  | 935.9  | 903.0  | 886.5  | 872.8  | 859.2  | 859.2  | 872.8  | 872.8  | 885.2  |
| 30°   | 916.7  | 863.3  | 799.0  | 764.8  | 744.2  | 736.1  | 734.7  | 731.9  | 741.6  | 747.0  | 760.7  |
| 32.5° | 783.9  | 718.2  | 656.7  | 623.8  | 606.1  | 596.5  | 597.9  | 599.3  | 603.3  | 611.6  | 633.5  |
| 35°   | 649.8  | 592.4  | 548.6  | 511.7  | 493.9  | 476.1  | 476.1  | 473.4  | 477.5  | 487.0  | 513.1  |
| 37.5° | 563.6  | 513.1  | 478.9  | 450.2  | 432.3  | 421.3  | 411.8  | 407.7  | 407.7  | 411.8  | 421.3  |
| 40°   | 515.8  | 478.9  | 447.4  | 422.8  | 406.3  | 396.8  | 391.3  | 387.2  | 384.5  | 384.5  | 385.8  |
| 42.5° | 493.9  | 455.5  | 424.1  | 402.3  | 389.9  | 384.5  | 383.1  | 381.8  | 377.6  | 376.3  | 374.9  |
| 45°   | 483.0  | 439.2  | 403.6  | 385.8  | 376.3  | 373.5  | 374.9  | 374.9  | 373.5  | 370.8  | 365.3  |
| 47.5° | 474.7  | 424.1  | 388.6  | 372.1  | 368.0  | 368.0  | 368.0  | 368.0  | 366.6  | 365.3  | 361.1  |
| 50°   | 461.0  | 400.8  | 362.6  | 350.3  | 347.5  | 347.5  | 348.9  | 348.9  | 351.6  | 348.9  | 346.1  |
| 52.5° | 446.0  | 379.0  | 340.6  | 329.7  | 328.4  | 326.9  | 326.9  | 326.9  | 328.4  | 328.4  | 326.9  |
| 55°   | 429.6  | 362.6  | 329.7  | 321.6  | 322.9  | 321.6  | 320.1  | 318.8  | 318.8  | 317.4  | 314.7  |
| 57.5° | 413.2  | 348.9  | 321.6  | 316.1  | 317.4  | 317.4  | 314.7  | 311.9  | 310.6  | 306.4  | 303.7  |
| 60°   | 388.6  | 329.7  | 305.1  | 302.4  | 306.4  | 306.4  | 306.4  | 305.1  | 305.1  | 303.7  | 296.9  |
| 62.5° | 355.8  | 302.4  | 283.2  | 284.6  | 285.9  | 288.7  | 288.7  | 288.7  | 288.7  | 285.9  | 279.1  |
| 63°   | 348.9  | 296.9  | 279.1  | 279.1  | 283.2  | 283.2  | 284.6  | 283.2  | 284.6  | 281.9  | 273.7  |
| 65°   | 321.6  | 279.1  | 265.4  | 266.7  | 269.5  | 269.5  | 269.5  | 268.2  | 268.2  | 264.0  | 259.9  |
| 67.5° | 290.1  | 257.2  | 249.0  | 250.4  | 251.7  | 254.5  | 253.1  | 253.1  | 254.5  | 251.7  | 247.7  |
| 70°   | 254.5  | 234.0  | 228.5  | 229.8  | 231.2  | 231.2  | 229.8  | 229.8  | 231.2  | 228.5  | 224.4  |
| 72.5° | 227.2  | 218.9  | 214.8  | 214.8  | 212.0  | 212.0  | 209.3  | 208.0  | 206.6  | 206.6  | 202.5  |
| 75°   | 191.5  | 190.2  | 191.5  | 194.3  | 191.5  | 188.8  | 187.5  | 183.3  | 180.6  | 180.6  | 179.3  |
| 77.5° | 164.1  | 164.1  | 166.9  | 171.0  | 172.4  | 172.4  | 168.3  | 161.5  | 160.1  | 160.1  | 160.1  |
| 80°   | 142.3  | 139.6  | 139.6  | 143.6  | 147.8  | 146.4  | 139.6  | 132.7  | 132.7  | 139.6  | 140.9  |
| 82.5° | 124.5  | 124.5  | 120.4  | 121.8  | 120.4  | 119.1  | 112.2  | 108.1  | 106.7  | 112.2  | 117.6  |
| 85°   | 98.5   | 99.9   | 98.5   | 97.1   | 95.8   | 91.7   | 86.2   | 82.1   | 80.7   | 86.2   | 94.4   |
| 87.5° | 39.7   | 38.3   | 36.9   | 38.3   | 36.9   | 39.7   | 38.3   | 35.5   | 34.2   | 38.3   | 46.5   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5°  | 1446.1 | 1448.9 | 1451.6 | 1451.6 | 1454.3 | 1453.0 | 1454.3 | 1455.8 | 1455.8 | 1457.1 | 1457.1 |
| 5°    | 1454.3 | 1458.4 | 1463.9 | 1469.4 | 1470.8 | 1474.8 | 1479.0 | 1476.3 | 1480.3 | 1485.8 | 1485.8 |
| 7.5°  | 1457.1 | 1466.6 | 1470.8 | 1479.0 | 1480.3 | 1485.8 | 1495.3 | 1488.5 | 1496.8 | 1500.8 | 1502.2 |
| 10°   | 1453.0 | 1462.6 | 1469.4 | 1479.0 | 1483.1 | 1492.6 | 1502.2 | 1499.5 | 1509.0 | 1515.9 | 1517.3 |
| 12.5° | 1428.3 | 1437.9 | 1453.0 | 1466.6 | 1477.6 | 1492.6 | 1510.5 | 1505.0 | 1518.7 | 1526.8 | 1531.0 |
| 15°   | 1380.4 | 1390.1 | 1406.4 | 1428.3 | 1448.9 | 1472.1 | 1495.3 | 1499.5 | 1513.2 | 1522.7 | 1526.8 |
| 17.5° | 1305.2 | 1317.5 | 1335.3 | 1358.5 | 1384.6 | 1424.2 | 1454.3 | 1469.4 | 1488.5 | 1494.0 | 1500.8 |
| 20°   | 1235.4 | 1247.8 | 1258.7 | 1272.3 | 1291.5 | 1329.8 | 1369.5 | 1399.6 | 1424.2 | 1444.8 | 1450.3 |
| 22.5° | 1142.4 | 1153.4 | 1167.0 | 1177.9 | 1191.6 | 1219.0 | 1251.8 | 1286.0 | 1324.4 | 1336.7 | 1350.4 |
| 25°   | 1030.3 | 1037.1 | 1056.2 | 1063.0 | 1072.6 | 1095.9 | 1121.9 | 1146.5 | 1183.4 | 1209.4 | 1216.3 |
| 27.5° | 909.8  | 916.7  | 934.4  | 938.5  | 950.9  | 972.7  | 991.9  | 1001.5 | 1035.6 | 1063.0 | 1085.0 |
| 30°   | 770.3  | 788.1  | 809.9  | 812.6  | 826.3  | 840.0  | 857.8  | 867.4  | 898.9  | 927.6  | 954.9  |
| 32.5° | 649.8  | 667.7  | 685.4  | 696.4  | 703.2  | 714.2  | 731.9  | 741.6  | 771.6  | 797.6  | 825.0  |
| 35°   | 526.7  | 548.6  | 567.8  | 582.8  | 588.3  | 602.0  | 615.6  | 625.3  | 656.7  | 680.0  | 699.2  |
| 37.5° | 433.7  | 450.2  | 470.7  | 485.7  | 500.7  | 510.4  | 526.7  | 540.4  | 559.6  | 571.9  | 592.4  |
| 40°   | 388.6  | 396.8  | 407.7  | 420.0  | 432.3  | 443.3  | 455.5  | 466.5  | 478.9  | 495.2  | 508.9  |
| 42.5° | 373.5  | 374.9  | 374.9  | 379.0  | 385.8  | 391.3  | 402.3  | 410.5  | 418.7  | 431.0  | 437.8  |
| 45°   | 362.6  | 361.1  | 358.4  | 355.8  | 357.1  | 359.8  | 366.6  | 372.1  | 381.8  | 387.2  | 388.6  |
| 47.5° | 357.1  | 351.6  | 346.1  | 342.1  | 340.6  | 342.1  | 347.5  | 353.0  | 358.4  | 362.6  | 363.9  |
| 50°   | 339.3  | 335.2  | 326.9  | 321.6  | 318.8  | 321.6  | 328.4  | 331.1  | 336.6  | 340.6  | 342.1  |
| 52.5° | 321.6  | 316.1  | 310.6  | 305.1  | 305.1  | 306.4  | 311.9  | 317.4  | 322.9  | 324.2  | 326.9  |
| 55°   | 310.6  | 302.4  | 296.9  | 292.7  | 290.1  | 294.2  | 298.2  | 305.1  | 311.9  | 313.3  | 316.1  |
| 57.5° | 299.6  | 291.4  | 285.9  | 281.9  | 279.1  | 283.2  | 287.4  | 296.9  | 305.1  | 305.1  | 305.1  |
| 60°   | 292.7  | 285.9  | 277.7  | 273.7  | 269.5  | 273.7  | 279.1  | 288.7  | 296.9  | 295.5  | 294.2  |
| 62.5° | 273.7  | 266.7  | 262.7  | 262.7  | 258.5  | 265.4  | 270.9  | 281.9  | 283.2  | 280.5  | 277.7  |
| 63°   | 268.2  | 262.7  | 259.9  | 259.9  | 257.2  | 264.0  | 269.5  | 279.1  | 279.1  | 276.4  | 273.7  |
| 65°   | 254.5  | 250.4  | 247.7  | 250.4  | 250.4  | 257.2  | 258.5  | 265.4  | 264.0  | 259.9  | 258.5  |
| 67.5° | 243.5  | 240.8  | 238.0  | 238.0  | 238.0  | 239.4  | 240.8  | 243.5  | 242.2  | 240.8  | 242.2  |
| 70°   | 225.7  | 224.4  | 221.7  | 221.7  | 220.3  | 220.3  | 220.3  | 221.7  | 221.7  | 223.0  | 224.4  |
| 72.5° | 203.8  | 201.1  | 201.1  | 202.5  | 199.8  | 201.1  | 202.5  | 201.1  | 203.8  | 203.8  | 205.2  |
| 75°   | 179.3  | 177.8  | 180.6  | 183.3  | 182.0  | 182.0  | 183.3  | 183.3  | 184.7  | 184.7  | 186.1  |
| 77.5° | 160.1  | 161.5  | 162.8  | 165.6  | 166.9  | 166.9  | 166.9  | 165.6  | 166.9  | 166.9  | 168.3  |
| 80°   | 142.3  | 145.0  | 147.8  | 150.5  | 151.8  | 151.8  | 151.8  | 150.5  | 150.5  | 150.5  | 150.5  |
| 82.5° | 128.6  | 132.7  | 135.4  | 136.8  | 136.8  | 136.8  | 136.8  | 136.8  | 136.8  | 134.1  | 131.3  |
| 85°   | 108.1  | 116.3  | 116.3  | 117.6  | 113.6  | 110.8  | 108.1  | 109.4  | 110.8  | 105.4  | 103.9  |
| 87.5° | 54.7   | 54.7   | 57.5   | 60.2   | 61.6   | 61.6   | 69.7   | 65.7   | 64.4   | 62.9   | 60.2   |
| 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°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5°  | 1458.4 | 1457.1 | 1459.8 | 1457.1 | 1458.4 | 1459.8 | 1457.1 | 1461.1 | 1463.9 | 1459.8 | 1455.8 |
| 5°    | 1488.5 | 1488.5 | 1495.3 | 1498.1 | 1499.5 | 1507.7 | 1503.6 | 1506.3 | 1509.0 | 1507.7 | 1509.0 |
| 7.5°  | 1507.7 | 1513.2 | 1520.0 | 1526.8 | 1528.2 | 1535.0 | 1533.7 | 1537.8 | 1540.5 | 1547.4 | 1547.4 |
| 10°   | 1524.1 | 1531.0 | 1540.5 | 1547.4 | 1554.2 | 1559.7 | 1562.4 | 1570.7 | 1572.0 | 1577.5 | 1577.5 |
| 12.5° | 1539.2 | 1547.4 | 1557.0 | 1567.9 | 1574.7 | 1585.7 | 1587.0 | 1599.4 | 1603.4 | 1604.9 | 1600.7 |
| 15°   | 1536.4 | 1546.0 | 1557.0 | 1569.2 | 1581.6 | 1595.2 | 1603.4 | 1615.8 | 1622.6 | 1625.4 | 1618.5 |
| 17.5° | 1510.5 | 1518.7 | 1532.3 | 1548.7 | 1563.8 | 1581.6 | 1596.6 | 1614.4 | 1625.4 | 1628.1 | 1626.7 |
| 20°   | 1459.8 | 1465.3 | 1483.1 | 1505.0 | 1522.7 | 1550.1 | 1572.0 | 1599.4 | 1617.1 | 1630.8 | 1634.9 |
| 22.5° | 1359.9 | 1373.6 | 1391.4 | 1416.1 | 1442.0 | 1476.3 | 1507.7 | 1547.4 | 1585.7 | 1618.5 | 1651.3 |
| 25°   | 1239.6 | 1264.1 | 1291.5 | 1324.4 | 1355.9 | 1391.4 | 1426.9 | 1472.1 | 1528.2 | 1596.6 | 1674.6 |
| 27.5° | 1117.7 | 1160.2 | 1194.4 | 1236.8 | 1273.8 | 1309.3 | 1349.0 | 1398.2 | 1459.8 | 1541.9 | 1641.8 |
| 30°   | 994.6  | 1042.5 | 1079.5 | 1128.7 | 1177.9 | 1225.8 | 1265.5 | 1317.5 | 1377.7 | 1461.1 | 1570.7 |
| 32.5° | 863.3  | 911.2  | 954.9  | 1000.1 | 1054.8 | 1112.3 | 1160.2 | 1224.5 | 1288.8 | 1375.0 | 1485.8 |
| 35°   | 727.9  | 770.3  | 807.3  | 855.1  | 915.3  | 976.9  | 1039.8 | 1113.7 | 1183.4 | 1273.8 | 1391.4 |
| 37.5° | 610.2  | 640.3  | 675.9  | 718.2  | 764.8  | 830.5  | 901.6  | 989.1  | 1068.5 | 1167.0 | 1287.5 |
| 40°   | 513.1  | 529.4  | 549.9  | 585.6  | 628.0  | 692.2  | 762.1  | 855.1  | 950.9  | 1059.0 | 1175.2 |
| 42.5° | 437.8  | 446.0  | 451.5  | 474.7  | 508.9  | 571.9  | 639.0  | 729.2  | 834.6  | 952.2  | 1069.8 |
| 45°   | 388.6  | 392.6  | 394.0  | 406.3  | 431.0  | 485.7  | 555.4  | 632.1  | 733.4  | 848.3  | 971.4  |
| 47.5° | 365.3  | 369.4  | 372.1  | 374.9  | 389.9  | 432.3  | 495.2  | 567.8  | 660.8  | 766.1  | 892.0  |
| 50°   | 346.1  | 350.3  | 354.3  | 353.0  | 359.8  | 387.2  | 440.5  | 507.6  | 595.1  | 692.2  | 816.8  |
| 52.5° | 326.9  | 329.7  | 329.7  | 329.7  | 333.8  | 351.6  | 389.9  | 451.5  | 532.2  | 623.8  | 747.0  |
| 55°   | 316.1  | 318.8  | 320.1  | 321.6  | 322.9  | 332.4  | 361.1  | 410.5  | 480.2  | 565.1  | 675.9  |
| 57.5° | 305.1  | 306.4  | 309.2  | 310.6  | 313.3  | 318.8  | 336.6  | 372.1  | 431.0  | 502.1  | 595.1  |
| 60°   | 295.5  | 298.2  | 303.7  | 305.1  | 307.9  | 309.2  | 317.4  | 339.3  | 377.6  | 432.3  | 507.6  |
| 62.5° | 280.5  | 284.6  | 290.1  | 291.4  | 294.2  | 295.5  | 296.9  | 309.2  | 326.9  | 359.8  | 416.0  |
| 63°   | 276.4  | 280.5  | 287.4  | 288.7  | 290.1  | 290.1  | 291.4  | 299.6  | 316.1  | 344.8  | 385.8  |
| 65°   | 261.3  | 266.7  | 270.9  | 272.2  | 273.7  | 273.7  | 272.2  | 275.0  | 276.4  | 288.7  | 313.3  |
| 67.5° | 244.9  | 249.0  | 251.7  | 253.1  | 251.7  | 253.1  | 251.7  | 249.0  | 246.2  | 249.0  | 259.9  |
| 70°   | 228.5  | 231.2  | 231.2  | 232.5  | 234.0  | 235.3  | 232.5  | 229.8  | 227.2  | 225.7  | 232.5  |
| 72.5° | 209.3  | 212.0  | 212.0  | 213.5  | 213.5  | 216.2  | 216.2  | 214.8  | 214.8  | 216.2  | 217.5  |
| 75°   | 190.2  | 193.0  | 191.5  | 194.3  | 194.3  | 198.3  | 198.3  | 199.8  | 202.5  | 201.1  | 199.8  |
| 77.5° | 172.4  | 173.8  | 173.8  | 175.1  | 176.5  | 183.3  | 187.5  | 188.8  | 188.8  | 186.1  | 183.3  |
| 80°   | 153.3  | 153.3  | 150.5  | 149.1  | 150.5  | 157.3  | 165.6  | 166.9  | 171.0  | 169.6  | 171.0  |
| 82.5° | 128.6  | 123.1  | 119.1  | 119.1  | 121.8  | 125.9  | 128.6  | 131.3  | 134.1  | 134.1  | 136.8  |
| 85°   | 98.5   | 93.1   | 88.9   | 90.3   | 94.4   | 95.8   | 94.4   | 94.4   | 99.9   | 103.9  | 99.9   |
| 87.5° | 58.9   | 53.4   | 50.6   | 46.5   | 47.9   | 52.0   | 50.6   | 46.5   | 47.9   | 38.3   | 35.5   |
| 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):**

|       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5°  | 1458.4 | 1457.1 | 1454.3 | 1450.3 | 1448.9 | 1446.1 | 1447.5 | 1443.4 | 1440.6 | 1437.9 | 1433.8 |
| 5°    | 1509.0 | 1509.0 | 1500.8 | 1500.8 | 1496.8 | 1495.3 | 1485.8 | 1481.7 | 1473.5 | 1476.3 | 1466.6 |
| 7.5°  | 1544.7 | 1548.7 | 1539.2 | 1537.8 | 1532.3 | 1531.0 | 1518.7 | 1514.5 | 1507.7 | 1505.0 | 1496.8 |
| 10°   | 1570.7 | 1570.7 | 1558.3 | 1548.7 | 1541.9 | 1535.0 | 1522.7 | 1517.3 | 1511.8 | 1513.2 | 1507.7 |
| 12.5° | 1591.2 | 1581.6 | 1563.8 | 1550.1 | 1540.5 | 1533.7 | 1524.1 | 1520.0 | 1518.7 | 1528.2 | 1529.5 |
| 15°   | 1607.6 | 1593.9 | 1572.0 | 1562.4 | 1554.2 | 1552.8 | 1552.8 | 1557.0 | 1566.5 | 1584.4 | 1598.0 |
| 17.5° | 1617.1 | 1608.9 | 1598.0 | 1595.2 | 1608.9 | 1617.1 | 1628.1 | 1640.4 | 1654.1 | 1678.8 | 1693.8 |
| 20°   | 1634.9 | 1640.4 | 1648.6 | 1659.6 | 1681.5 | 1702.0 | 1715.6 | 1733.5 | 1749.8 | 1780.0 | 1804.6 |
| 22.5° | 1681.5 | 1713.0 | 1738.9 | 1760.8 | 1793.7 | 1822.4 | 1840.1 | 1864.8 | 1877.1 | 1897.6 | 1936.0 |
| 25°   | 1741.7 | 1805.9 | 1860.6 | 1907.2 | 1957.8 | 1987.9 | 2012.5 | 2044.0 | 2063.1 | 2097.4 | 2131.6 |
| 27.5° | 1723.8 | 1815.5 | 1897.6 | 1983.8 | 2053.6 | 2131.6 | 2186.3 | 2238.2 | 2271.1 | 2321.8 | 2366.8 |
| 30°   | 1669.1 | 1778.5 | 1889.4 | 2003.0 | 2113.8 | 2226.0 | 2329.9 | 2424.4 | 2496.9 | 2569.3 | 2643.2 |
| 32.5° | 1595.2 | 1721.1 | 1856.6 | 1996.2 | 2141.1 | 2297.1 | 2440.7 | 2583.0 | 2703.4 | 2808.8 | 2911.4 |
| 35°   | 1510.5 | 1652.7 | 1793.7 | 1966.0 | 2145.3 | 2343.6 | 2543.4 | 2740.4 | 2923.7 | 3109.7 | 3235.6 |
| 37.5° | 1409.2 | 1554.2 | 1711.5 | 1909.9 | 2120.6 | 2365.5 | 2620.0 | 2877.2 | 3137.1 | 3387.6 | 3605.1 |
| 40°   | 1301.1 | 1448.9 | 1614.4 | 1829.2 | 2067.3 | 2351.8 | 2669.2 | 3015.3 | 3372.4 | 3735.0 | 4023.7 |
| 42.5° | 1205.3 | 1357.2 | 1537.8 | 1755.3 | 2013.9 | 2334.1 | 2708.9 | 3134.4 | 3570.9 | 4019.6 | 4443.7 |
| 45°   | 1112.3 | 1279.2 | 1469.4 | 1703.3 | 1990.7 | 2347.8 | 2767.8 | 3245.2 | 3748.7 | 4293.3 | 4810.4 |
| 47.5° | 1028.8 | 1198.4 | 1383.2 | 1639.1 | 1956.5 | 2354.6 | 2825.2 | 3356.1 | 3917.0 | 4506.6 | 5120.9 |
| 50°   | 953.6  | 1117.7 | 1299.7 | 1557.0 | 1903.1 | 2350.5 | 2877.2 | 3456.0 | 4062.0 | 4674.9 | 5360.4 |
| 52.5° | 879.7  | 1046.6 | 1232.7 | 1477.6 | 1837.4 | 2327.3 | 2901.9 | 3538.0 | 4196.1 | 4844.6 | 5553.3 |
| 55°   | 807.3  | 971.4  | 1158.9 | 1402.4 | 1751.2 | 2267.0 | 2899.1 | 3591.4 | 4302.8 | 5004.7 | 5739.4 |
| 57.5° | 722.4  | 878.3  | 1061.7 | 1318.9 | 1659.6 | 2174.0 | 2858.0 | 3616.0 | 4394.5 | 5163.3 | 5962.4 |
| 60°   | 617.0  | 763.4  | 939.9  | 1197.1 | 1539.2 | 2054.9 | 2771.8 | 3602.3 | 4447.9 | 5281.0 | 6152.5 |
| 62.5° | 487.0  | 614.3  | 775.8  | 1027.5 | 1388.7 | 1883.9 | 2610.4 | 3477.8 | 4363.0 | 5264.6 | 6241.5 |
| 63°   | 459.7  | 580.1  | 737.4  | 986.4  | 1324.4 | 1837.4 | 2562.5 | 3428.6 | 4322.0 | 5230.4 | 6229.1 |
| 65°   | 369.4  | 447.4  | 573.3  | 796.3  | 1108.2 | 1608.9 | 2324.5 | 3175.4 | 4101.7 | 4989.6 | 6051.3 |
| 67.5° | 283.2  | 322.9  | 389.9  | 545.9  | 783.9  | 1265.5 | 1882.6 | 2691.1 | 3559.9 | 4394.5 | 5478.0 |
| 70°   | 242.2  | 259.9  | 288.7  | 362.6  | 498.0  | 799.0  | 1321.7 | 2007.0 | 2759.6 | 3483.3 | 4457.4 |
| 72.5° | 220.3  | 228.5  | 243.5  | 275.0  | 342.1  | 478.9  | 842.8  | 1306.5 | 1877.1 | 2483.2 | 3235.6 |
| 75°   | 202.5  | 209.3  | 221.7  | 238.0  | 262.7  | 318.8  | 480.2  | 799.0  | 1220.4 | 1630.8 | 2183.5 |
| 77.5° | 184.7  | 188.8  | 202.5  | 217.5  | 234.0  | 262.7  | 317.4  | 459.7  | 701.9  | 961.8  | 1316.2 |
| 80°   | 169.6  | 166.9  | 176.5  | 201.1  | 217.5  | 234.0  | 250.4  | 298.2  | 399.5  | 526.7  | 711.4  |
| 82.5° | 135.4  | 138.1  | 146.4  | 171.0  | 177.8  | 173.8  | 176.5  | 184.7  | 223.0  | 243.5  | 363.9  |
| 85°   | 91.7   | 84.9   | 83.4   | 86.2   | 86.2   | 82.1   | 82.1   | 80.7   | 88.9   | 101.2  | 173.8  |
| 87.5° | 24.7   | 12.3   | 0.0    | 0.0    | 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    | 0.0    | 0.0    | 0.0    | 0.0    |





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**DISTRIBUTION (continued):**

| 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 1418.8 | 1420.1 | 1417.4 | 1417.4 | 1418.8 | 1418.8 | 1416.1 |
| 1416.1 | 1416.1 | 1413.3 | 1410.6 | 1407.8 | 1407.8 | 1405.1 |
| 1447.5 | 1447.5 | 1437.9 | 1433.8 | 1426.9 | 1421.5 | 1418.8 |
| 1494.0 | 1485.8 | 1474.8 | 1466.6 | 1455.8 | 1443.4 | 1436.6 |
| 1540.5 | 1528.2 | 1514.5 | 1502.2 | 1488.5 | 1474.8 | 1468.0 |
| 1617.1 | 1600.7 | 1582.9 | 1567.9 | 1548.7 | 1528.2 | 1520.0 |
| 1734.8 | 1708.8 | 1685.6 | 1663.6 | 1629.4 | 1614.4 | 1598.0 |
| 1890.8 | 1852.4 | 1822.4 | 1785.4 | 1743.0 | 1729.3 | 1708.8 |
| 2079.6 | 2046.7 | 1986.5 | 1959.2 | 1916.8 | 1896.3 | 1900.3 |
| 2366.8 | 2324.5 | 2254.7 | 2228.7 | 2224.6 | 2179.5 | 2157.5 |
| 2741.8 | 2744.5 | 2680.2 | 2610.4 | 2572.1 | 2500.9 | 2410.7 |
| 3275.3 | 3238.3 | 3163.1 | 3092.0 | 3001.7 | 2867.7 | 2717.1 |
| 3921.1 | 3839.0 | 3714.5 | 3581.8 | 3421.8 | 3215.1 | 3004.5 |
| 4551.8 | 4408.2 | 4209.7 | 3988.1 | 3756.9 | 3499.7 | 3201.5 |
| 5105.9 | 4882.9 | 4586.0 | 4331.5 | 4004.6 | 3683.0 | 3319.1 |
| 5612.1 | 5335.8 | 4952.6 | 4622.9 | 4237.1 | 3823.9 | 3393.0 |
| 6101.9 | 5751.7 | 5282.4 | 4836.4 | 4399.9 | 3918.3 | 3428.6 |
| 6568.4 | 6117.0 | 5560.1 | 5029.3 | 4519.0 | 3979.9 | 3434.0 |
| 6926.9 | 6434.4 | 5809.1 | 5168.8 | 4601.0 | 4026.4 | 3434.0 |
| 7259.4 | 6702.5 | 5999.3 | 5278.2 | 4677.7 | 4057.9 | 3436.8 |
| 7517.9 | 6891.3 | 6122.4 | 5356.3 | 4737.8 | 4081.1 | 3449.1 |
| 7705.4 | 7014.5 | 6204.6 | 5404.1 | 4781.7 | 4114.0 | 3476.5 |
| 7836.7 | 7095.1 | 6249.6 | 5446.5 | 4835.0 | 4171.5 | 3553.1 |
| 7899.7 | 7244.4 | 6324.9 | 5531.4 | 4926.6 | 4293.3 | 3706.3 |
| 7851.7 | 7475.5 | 6539.7 | 5675.0 | 5053.9 | 4483.4 | 3951.2 |
| 7831.2 | 7517.9 | 6598.5 | 5706.5 | 5082.6 | 4524.5 | 4036.1 |
| 7671.2 | 7560.3 | 6840.7 | 5865.2 | 5219.5 | 4706.4 | 4272.7 |
| 7174.5 | 7393.5 | 7044.6 | 6133.4 | 5513.6 | 5148.3 | 4714.6 |
| 6531.5 | 7145.8 | 7007.6 | 6167.6 | 5701.0 | 5510.9 | 4993.7 |
| 5761.2 | 6397.4 | 6268.8 | 5712.0 | 5494.4 | 5515.0 | 4921.2 |
| 4534.0 | 5011.5 | 4926.6 | 4731.0 | 4774.8 | 4925.3 | 4215.2 |
| 3632.4 | 3568.1 | 3372.4 | 3386.1 | 3639.3 | 3815.8 | 3034.5 |
| 2967.5 | 2402.5 | 2148.0 | 2154.8 | 2596.7 | 2780.1 | 1933.2 |
| 2823.8 | 2272.4 | 1851.1 | 1617.1 | 1889.4 | 1819.6 | 1009.6 |
| 2011.2 | 2015.2 | 1671.9 | 1358.5 | 1316.2 | 1119.2 | 629.3  |
| 476.1  | 381.8  | 272.2  | 202.5  | 213.5  | 140.9  | 71.2   |
| 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)