

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: CORELITE

Report Number: P520522

Luminaire Tested: **4WSLA-150-L935-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-150-L935-UNV-U  
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

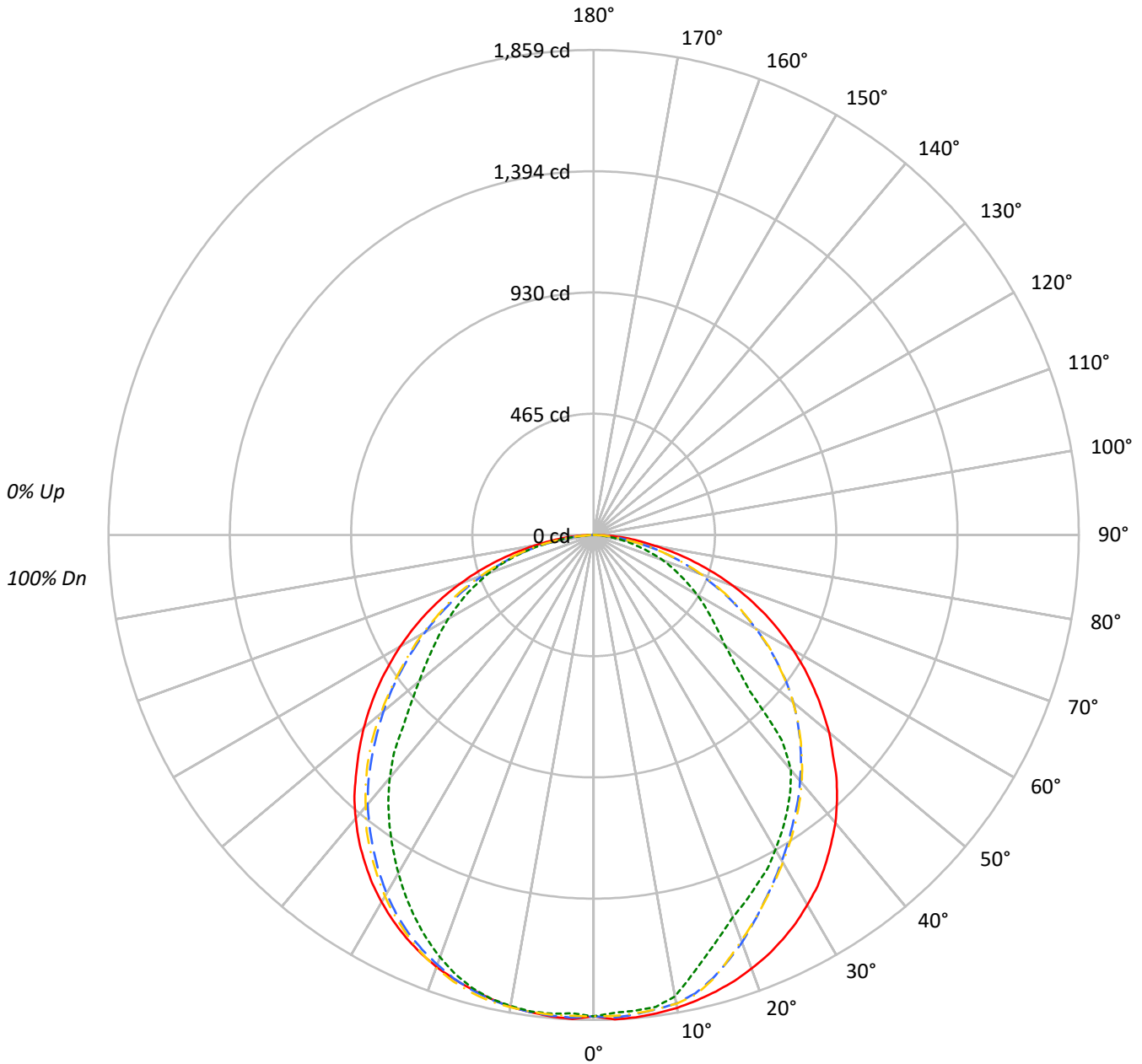
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4950.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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### Luminous Intensity Polar Plot





TEST NUMBER: P520522

CATALOG NUMBER: 4WSLA-150-L935-UNV-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 73  | 70  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 46  | 44  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°  | 180°  | 270°  |
|-----|-------|------|-------|-------|
| 0°  | 9931  | 9931 | 9931  | 9931  |
| 5°  | 10028 | 9888 | 10011 | 9953  |
| 10° | 10062 | 9813 | 10035 | 10019 |
| 15° | 10093 | 9294 | 10049 | 10016 |
| 20° | 10132 | 8930 | 10092 | 9865  |
| 25° | 10164 | 8782 | 10111 | 9617  |
| 30° | 10175 | 8656 | 10101 | 9301  |
| 35° | 10159 | 8487 | 10055 | 8956  |
| 40° | 10126 | 8262 | 9966  | 8540  |
| 45° | 10013 | 6419 | 9787  | 7836  |
| 50° | 9863  | 5495 | 9623  | 7310  |
| 55° | 9688  | 5146 | 9438  | 7032  |
| 60° | 9505  | 4912 | 9217  | 6916  |
| 65° | 9279  | 4652 | 8963  | 6832  |
| 70° | 8910  | 4423 | 8537  | 6729  |
| 75° | 8295  | 3891 | 7904  | 6403  |
| 80° | 7364  | 3251 | 6902  | 5430  |
| 85° | 6966  | 2322 | 6113  | 3118  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.3  | 3.5       |
| 10°-20°   | 500.1  | 10.1      |
| 20°-30°   | 747.2  | 15.1      |
| 30°-40°   | 889.5  | 18.0      |
| 40°-50°   | 889.1  | 18.0      |
| 50°-60°   | 765.0  | 15.5      |
| 60°-70°   | 575.8  | 11.6      |
| 70°-80°   | 328.1  | 6.6       |
| 80°-90°   | 79.9   | 1.6       |
| 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°-30°    | 1422.6 | 28.7      |
| 0°-40°    | 2312.1 | 46.7      |
| 0°-60°    | 3966.2 | 80.1      |
| 0°-90°    | 4950.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4950.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1845 | 1845 | 1845 | 1845 | 1845 |      |
| 5°  | 1856 | 1830 | 1853 | 1842 | 1856 | 177  |
| 15° | 1812 | 1668 | 1804 | 1798 | 1812 | 512  |
| 25° | 1712 | 1479 | 1703 | 1620 | 1712 | 789  |
| 35° | 1546 | 1292 | 1530 | 1363 | 1546 | 967  |
| 45° | 1316 | 843  | 1286 | 1030 | 1316 | 1013 |
| 55° | 1032 | 548  | 1006 | 749  | 1032 | 923  |
| 65° | 729  | 365  | 704  | 536  | 729  | 719  |
| 75° | 399  | 187  | 380  | 308  | 399  | 422  |
| 85° | 113  | 38   | 99   | 50   | 113  | 123  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P520522

CATALOG NUMBER: 4WSLA-150-L935-UNV-U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 |
| 2.5°  | 1859.1 | 1842.2 | 1852.1 | 1849.2 | 1833.3 | 1839.3 | 1845.2 | 1839.3 | 1857.1 | 1841.2 | 1852.1 |
| 5°    | 1856.1 | 1838.3 | 1844.2 | 1838.3 | 1830.3 | 1832.3 | 1841.2 | 1835.3 | 1853.1 | 1836.3 | 1850.1 |
| 7.5°  | 1850.1 | 1828.4 | 1834.3 | 1831.3 | 1824.4 | 1825.4 | 1834.3 | 1829.4 | 1845.2 | 1829.4 | 1845.2 |
| 10°   | 1841.2 | 1818.5 | 1823.4 | 1810.5 | 1795.7 | 1806.6 | 1824.4 | 1819.5 | 1836.3 | 1818.5 | 1836.3 |
| 12.5° | 1827.4 | 1804.6 | 1799.7 | 1757.1 | 1730.4 | 1751.2 | 1805.6 | 1805.6 | 1821.4 | 1804.6 | 1823.4 |
| 15°   | 1811.5 | 1786.8 | 1760.1 | 1695.7 | 1668.0 | 1688.8 | 1764.0 | 1789.8 | 1803.6 | 1786.8 | 1805.6 |
| 17.5° | 1792.7 | 1764.0 | 1712.5 | 1637.3 | 1611.6 | 1632.4 | 1709.6 | 1766.0 | 1783.8 | 1766.0 | 1782.8 |
| 20°   | 1769.0 | 1735.3 | 1662.1 | 1575.9 | 1559.1 | 1577.9 | 1655.1 | 1737.3 | 1762.0 | 1740.3 | 1752.1 |
| 22.5° | 1743.2 | 1702.6 | 1605.6 | 1528.4 | 1520.5 | 1532.4 | 1602.7 | 1701.7 | 1734.3 | 1711.6 | 1719.5 |
| 25°   | 1711.6 | 1664.0 | 1549.2 | 1484.9 | 1478.9 | 1485.9 | 1551.2 | 1660.1 | 1702.6 | 1678.9 | 1681.9 |
| 27.5° | 1677.9 | 1626.4 | 1495.8 | 1448.2 | 1442.3 | 1445.3 | 1499.7 | 1613.6 | 1666.0 | 1642.3 | 1637.3 |
| 30°   | 1637.3 | 1581.9 | 1442.3 | 1398.7 | 1392.8 | 1403.7 | 1450.2 | 1566.0 | 1625.4 | 1601.7 | 1586.8 |
| 32.5° | 1596.7 | 1533.4 | 1389.8 | 1356.2 | 1344.3 | 1354.2 | 1398.7 | 1516.5 | 1580.9 | 1556.1 | 1531.4 |
| 35°   | 1546.2 | 1481.9 | 1335.4 | 1301.7 | 1291.8 | 1302.7 | 1347.3 | 1465.1 | 1530.4 | 1505.7 | 1472.0 |
| 37.5° | 1493.8 | 1427.5 | 1285.9 | 1255.2 | 1237.4 | 1250.3 | 1294.8 | 1411.6 | 1477.9 | 1452.2 | 1410.6 |
| 40°   | 1441.3 | 1370.0 | 1230.5 | 1198.8 | 1176.0 | 1194.8 | 1240.4 | 1355.2 | 1418.5 | 1394.8 | 1347.3 |
| 42.5° | 1379.9 | 1312.6 | 1176.0 | 1131.5 | 1067.1 | 1127.5 | 1182.0 | 1298.8 | 1357.2 | 1334.4 | 1277.0 |
| 45°   | 1315.6 | 1251.2 | 1118.6 | 1010.7 | 843.4  | 1020.6 | 1122.6 | 1239.4 | 1285.9 | 1264.1 | 1201.8 |
| 47.5° | 1242.3 | 1187.9 | 1060.2 | 895.9  | 733.5  | 905.8  | 1062.2 | 1182.9 | 1218.6 | 1194.8 | 1125.5 |
| 50°   | 1178.0 | 1124.5 | 998.8  | 798.9  | 656.3  | 809.7  | 997.8  | 1119.6 | 1149.3 | 1127.5 | 1050.3 |
| 52.5° | 1104.7 | 1058.2 | 932.5  | 712.7  | 598.9  | 723.6  | 930.5  | 1054.3 | 1078.0 | 1052.3 | 975.1  |
| 55°   | 1032.5 | 990.9  | 862.2  | 636.5  | 548.4  | 646.4  | 860.2  | 986.9  | 1005.8 | 976.1  | 895.9  |
| 57.5° | 959.2  | 921.6  | 789.9  | 568.2  | 501.9  | 579.1  | 794.9  | 917.6  | 930.5  | 892.9  | 819.6  |
| 60°   | 883.0  | 851.3  | 716.7  | 507.8  | 456.3  | 516.7  | 714.7  | 848.4  | 856.3  | 815.7  | 745.4  |
| 62.5° | 806.8  | 778.1  | 643.4  | 452.4  | 409.8  | 458.3  | 648.4  | 775.1  | 780.1  | 741.4  | 669.2  |
| 65°   | 728.6  | 701.8  | 572.2  | 394.0  | 365.3  | 403.9  | 577.1  | 698.9  | 703.8  | 660.3  | 594.9  |
| 67.5° | 647.4  | 625.6  | 495.9  | 349.4  | 322.7  | 352.4  | 505.8  | 621.7  | 624.6  | 582.1  | 522.7  |
| 70°   | 566.2  | 547.4  | 428.6  | 300.9  | 281.1  | 301.9  | 435.6  | 536.5  | 542.5  | 496.9  | 449.4  |
| 72.5° | 483.1  | 468.2  | 363.3  | 250.4  | 232.6  | 250.4  | 367.3  | 458.3  | 462.3  | 424.7  | 378.1  |
| 75°   | 398.9  | 388.0  | 297.0  | 201.0  | 187.1  | 200.0  | 299.0  | 380.1  | 380.1  | 344.5  | 307.9  |
| 77.5° | 317.8  | 309.8  | 227.7  | 154.4  | 144.5  | 152.4  | 228.7  | 300.9  | 299.0  | 271.2  | 242.5  |
| 80°   | 237.6  | 231.6  | 163.3  | 111.9  | 104.9  | 108.9  | 163.3  | 222.7  | 222.7  | 202.9  | 168.3  |
| 82.5° | 170.3  | 163.3  | 107.9  | 73.3   | 69.3   | 71.3   | 105.9  | 155.4  | 158.4  | 143.5  | 113.8  |
| 85°   | 112.8  | 97.0   | 58.4   | 40.6   | 37.6   | 38.6   | 55.4   | 90.1   | 99.0   | 83.2   | 59.4   |
| 87.5° | 49.5   | 32.7   | 14.8   | 5.9    | 3.0    | 4.0    | 11.9   | 28.7   | 37.6   | 24.7   | 7.9    |
| 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):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 | 1845.2 |
| 2.5°  | 1851.1 | 1835.3 | 1841.2 | 1845.2 | 1841.2 | 1859.1 |
| 5°    | 1849.2 | 1842.2 | 1841.2 | 1846.2 | 1838.3 | 1856.1 |
| 7.5°  | 1846.2 | 1842.2 | 1841.2 | 1843.2 | 1833.3 | 1850.1 |
| 10°   | 1839.3 | 1833.3 | 1835.3 | 1838.3 | 1825.4 | 1841.2 |
| 12.5° | 1826.4 | 1820.4 | 1821.4 | 1831.3 | 1813.5 | 1827.4 |
| 15°   | 1804.6 | 1797.7 | 1804.6 | 1815.5 | 1799.7 | 1811.5 |
| 17.5° | 1775.9 | 1765.0 | 1776.9 | 1793.7 | 1781.8 | 1792.7 |
| 20°   | 1739.3 | 1722.4 | 1735.3 | 1766.0 | 1755.1 | 1769.0 |
| 22.5° | 1694.7 | 1673.9 | 1686.8 | 1731.4 | 1728.4 | 1743.2 |
| 25°   | 1644.2 | 1619.5 | 1637.3 | 1691.8 | 1697.7 | 1711.6 |
| 27.5° | 1587.8 | 1560.1 | 1583.9 | 1648.2 | 1662.1 | 1677.9 |
| 30°   | 1526.4 | 1496.7 | 1524.5 | 1599.7 | 1620.5 | 1637.3 |
| 32.5° | 1463.1 | 1430.4 | 1462.1 | 1545.3 | 1575.0 | 1596.7 |
| 35°   | 1396.8 | 1363.1 | 1398.7 | 1488.8 | 1524.5 | 1546.2 |
| 37.5° | 1325.5 | 1292.8 | 1331.4 | 1429.4 | 1472.0 | 1493.8 |
| 40°   | 1252.2 | 1215.6 | 1259.2 | 1359.1 | 1415.6 | 1441.3 |
| 42.5° | 1177.0 | 1131.5 | 1184.9 | 1292.8 | 1354.2 | 1379.9 |
| 45°   | 1092.9 | 1029.5 | 1101.8 | 1222.5 | 1286.9 | 1315.6 |
| 47.5° | 1008.7 | 945.4  | 1018.6 | 1147.3 | 1216.6 | 1242.3 |
| 50°   | 927.5  | 873.1  | 931.5  | 1065.1 | 1145.3 | 1178.0 |
| 52.5° | 853.3  | 808.8  | 858.3  | 985.0  | 1072.1 | 1104.7 |
| 55°   | 784.0  | 749.4  | 789.9  | 905.8  | 994.9  | 1032.5 |
| 57.5° | 718.7  | 696.9  | 724.6  | 830.5  | 923.6  | 959.2  |
| 60°   | 657.3  | 642.5  | 662.3  | 756.3  | 839.4  | 883.0  |
| 62.5° | 596.9  | 589.0  | 603.8  | 678.1  | 761.2  | 806.8  |
| 65°   | 538.5  | 536.5  | 544.5  | 609.8  | 679.1  | 728.6  |
| 67.5° | 480.1  | 479.1  | 484.1  | 537.5  | 598.9  | 647.4  |
| 70°   | 421.7  | 427.6  | 424.7  | 459.3  | 518.7  | 566.2  |
| 72.5° | 362.3  | 371.2  | 366.3  | 388.0  | 445.5  | 483.1  |
| 75°   | 296.0  | 307.9  | 298.0  | 322.7  | 358.3  | 398.9  |
| 77.5° | 227.7  | 240.5  | 228.7  | 250.4  | 289.1  | 317.8  |
| 80°   | 163.3  | 175.2  | 165.3  | 182.1  | 215.8  | 237.6  |
| 82.5° | 103.0  | 111.9  | 103.9  | 120.8  | 154.4  | 170.3  |
| 85°   | 45.5   | 50.5   | 52.5   | 65.3   | 95.0   | 112.8  |
| 87.5° | 2.0    | 1.0    | 2.0    | 12.9   | 33.7   | 49.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°









(END OF REPORT)