

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: P520510

Luminaire Tested: **4WSLA-150-L835-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520510
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-L835-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

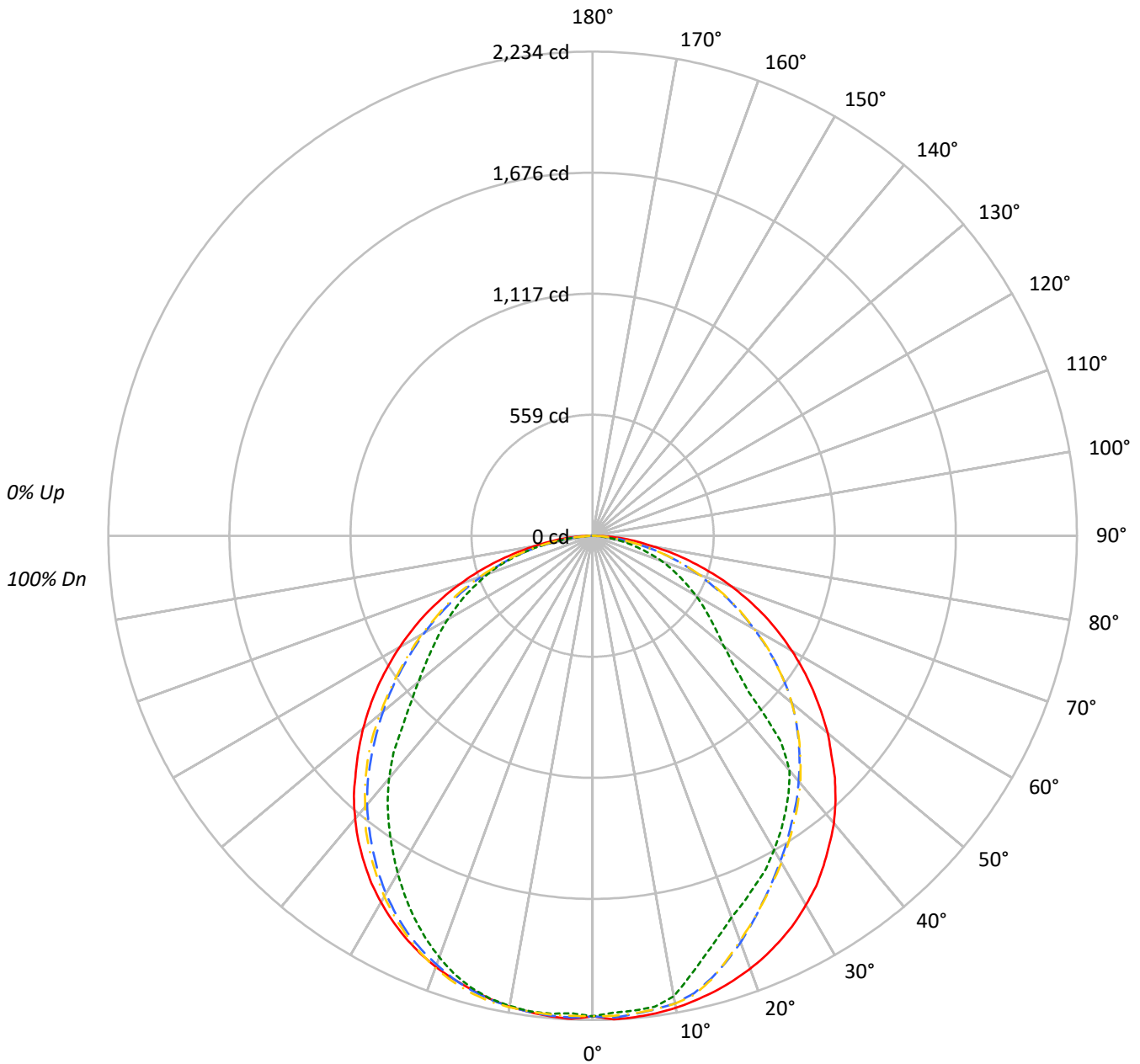
Lumens per Lamp: N/A
Luminaire Lumens: 5947.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P520510

CATALOG NUMBER: 4WSLA-150-L835-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520510

CATALOG NUMBER: 4WSLA-150-L835-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° | 11931 | 11931 | 11931 | 11931 |
| 5° | 12047 | 11880 | 12028 | 11957 |
| 10° | 12089 | 11790 | 12056 | 12037 |
| 15° | 12126 | 11166 | 12074 | 12034 |
| 20° | 12172 | 10728 | 12124 | 11852 |
| 25° | 12211 | 10551 | 12147 | 11554 |
| 30° | 12225 | 10399 | 12136 | 11175 |
| 35° | 12205 | 10197 | 12080 | 10760 |
| 40° | 12166 | 9927 | 11974 | 10261 |
| 45° | 12030 | 7712 | 11759 | 9414 |
| 50° | 11850 | 6602 | 11561 | 8783 |
| 55° | 11639 | 6183 | 11338 | 8448 |
| 60° | 11419 | 5902 | 11073 | 8309 |
| 65° | 11147 | 5588 | 10769 | 8209 |
| 70° | 10705 | 5316 | 10255 | 8085 |
| 75° | 9967 | 4675 | 9497 | 7692 |
| 80° | 8846 | 3908 | 8294 | 6524 |
| 85° | 8373 | 2791 | 7342 | 3748 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 210.6 | 3.5 |
| 10°-20° | 600.8 | 10.1 |
| 20°-30° | 897.7 | 15.1 |
| 30°-40° | 1068.6 | 18.0 |
| 40°-50° | 1068.2 | 18.0 |
| 50°-60° | 919.1 | 15.5 |
| 60°-70° | 691.8 | 11.6 |
| 70°-80° | 394.2 | 6.6 |
| 80°-90° | 96.0 | 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° | 1709.2 | 28.7 |
| 0°-40° | 2777.8 | 46.7 |
| 0°-60° | 4765.1 | 80.1 |
| 0°-90° | 5947.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5947.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2217 | 2217 | 2217 | 2217 | 2217 | |
| 5° | 2230 | 2199 | 2226 | 2213 | 2230 | 212 |
| 15° | 2176 | 2004 | 2167 | 2160 | 2176 | 615 |
| 25° | 2056 | 1777 | 2046 | 1946 | 2056 | 948 |
| 35° | 1858 | 1552 | 1839 | 1638 | 1858 | 1162 |
| 45° | 1581 | 1013 | 1545 | 1237 | 1581 | 1217 |
| 55° | 1240 | 659 | 1208 | 900 | 1240 | 1109 |
| 65° | 875 | 439 | 846 | 645 | 875 | 864 |
| 75° | 479 | 225 | 457 | 370 | 479 | 507 |
| 85° | 136 | 45 | 119 | 61 | 136 | 148 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P520510

CATALOG NUMBER: 4WSLA-150-L835-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 |
| 2.5° | 2233.5 | 2213.3 | 2225.2 | 2221.6 | 2202.6 | 2209.7 | 2216.8 | 2209.7 | 2231.1 | 2212.1 | 2225.2 |
| 5° | 2229.9 | 2208.5 | 2215.7 | 2208.5 | 2199.0 | 2201.4 | 2212.1 | 2205.0 | 2226.4 | 2206.1 | 2222.8 |
| 7.5° | 2222.8 | 2196.6 | 2203.8 | 2200.2 | 2191.9 | 2193.1 | 2203.8 | 2197.8 | 2216.8 | 2197.8 | 2216.8 |
| 10° | 2212.1 | 2184.7 | 2190.7 | 2175.2 | 2157.4 | 2170.5 | 2191.9 | 2185.9 | 2206.1 | 2184.7 | 2206.1 |
| 12.5° | 2195.4 | 2168.1 | 2162.1 | 2111.0 | 2078.9 | 2103.9 | 2169.3 | 2169.3 | 2188.3 | 2168.1 | 2190.7 |
| 15° | 2176.4 | 2146.7 | 2114.6 | 2037.3 | 2004.0 | 2028.9 | 2119.3 | 2150.2 | 2166.9 | 2146.7 | 2169.3 |
| 17.5° | 2153.8 | 2119.3 | 2057.5 | 1967.1 | 1936.2 | 1961.1 | 2053.9 | 2121.7 | 2143.1 | 2121.7 | 2141.9 |
| 20° | 2125.3 | 2084.8 | 1996.8 | 1893.4 | 1873.1 | 1895.7 | 1988.5 | 2087.2 | 2116.9 | 2090.8 | 2105.1 |
| 22.5° | 2094.3 | 2045.6 | 1929.0 | 1836.3 | 1826.8 | 1841.0 | 1925.5 | 2044.4 | 2083.6 | 2056.3 | 2065.8 |
| 25° | 2056.3 | 1999.2 | 1861.2 | 1783.9 | 1776.8 | 1785.1 | 1863.6 | 1994.4 | 2045.6 | 2017.0 | 2020.6 |
| 27.5° | 2015.9 | 1954.0 | 1797.0 | 1739.9 | 1732.8 | 1736.4 | 1801.8 | 1938.6 | 2001.6 | 1973.0 | 1967.1 |
| 30° | 1967.1 | 1900.5 | 1732.8 | 1680.5 | 1673.3 | 1686.4 | 1742.3 | 1881.5 | 1952.8 | 1924.3 | 1906.4 |
| 32.5° | 1918.3 | 1842.2 | 1669.8 | 1629.3 | 1615.1 | 1627.0 | 1680.5 | 1822.0 | 1899.3 | 1869.6 | 1839.8 |
| 35° | 1857.7 | 1780.4 | 1604.4 | 1563.9 | 1552.0 | 1565.1 | 1618.6 | 1760.2 | 1838.6 | 1808.9 | 1768.5 |
| 37.5° | 1794.6 | 1715.0 | 1544.9 | 1508.0 | 1486.6 | 1502.1 | 1555.6 | 1695.9 | 1775.6 | 1744.7 | 1694.7 |
| 40° | 1731.6 | 1646.0 | 1478.3 | 1440.2 | 1412.9 | 1435.5 | 1490.2 | 1628.1 | 1704.3 | 1675.7 | 1618.6 |
| 42.5° | 1657.9 | 1577.0 | 1412.9 | 1359.4 | 1282.1 | 1354.6 | 1420.0 | 1560.4 | 1630.5 | 1603.2 | 1534.2 |
| 45° | 1580.6 | 1503.3 | 1343.9 | 1214.3 | 1013.3 | 1226.2 | 1348.7 | 1489.0 | 1544.9 | 1518.7 | 1443.8 |
| 47.5° | 1492.6 | 1427.2 | 1273.7 | 1076.3 | 881.3 | 1088.2 | 1276.1 | 1421.2 | 1464.0 | 1435.5 | 1352.2 |
| 50° | 1415.3 | 1351.0 | 1200.0 | 959.8 | 788.5 | 972.8 | 1198.8 | 1345.1 | 1380.8 | 1354.6 | 1261.8 |
| 52.5° | 1327.3 | 1271.4 | 1120.3 | 856.3 | 719.5 | 869.4 | 1117.9 | 1266.6 | 1295.1 | 1264.2 | 1171.5 |
| 55° | 1240.4 | 1190.5 | 1035.9 | 764.7 | 658.9 | 776.6 | 1033.5 | 1185.7 | 1208.3 | 1172.6 | 1076.3 |
| 57.5° | 1152.4 | 1107.2 | 949.1 | 682.7 | 603.0 | 695.7 | 955.0 | 1102.5 | 1117.9 | 1072.7 | 984.7 |
| 60° | 1060.9 | 1022.8 | 861.0 | 610.1 | 548.3 | 620.8 | 858.7 | 1019.2 | 1028.7 | 980.0 | 895.5 |
| 62.5° | 969.3 | 934.8 | 773.0 | 543.5 | 492.4 | 550.6 | 779.0 | 931.2 | 937.2 | 890.8 | 804.0 |
| 65° | 875.3 | 843.2 | 687.4 | 473.3 | 438.8 | 485.2 | 693.4 | 839.6 | 845.6 | 793.3 | 714.8 |
| 67.5° | 777.8 | 751.6 | 595.8 | 419.8 | 387.7 | 423.4 | 607.7 | 746.9 | 750.4 | 699.3 | 627.9 |
| 70° | 680.3 | 657.7 | 515.0 | 361.5 | 337.8 | 362.7 | 523.3 | 644.6 | 651.7 | 597.0 | 539.9 |
| 72.5° | 580.4 | 562.5 | 436.5 | 300.9 | 279.5 | 300.9 | 441.2 | 550.6 | 555.4 | 510.2 | 454.3 |
| 75° | 479.3 | 466.2 | 356.8 | 241.4 | 224.8 | 240.2 | 359.2 | 456.7 | 456.7 | 413.9 | 369.9 |
| 77.5° | 381.8 | 372.2 | 273.5 | 185.5 | 173.6 | 183.2 | 274.7 | 361.5 | 359.2 | 325.9 | 291.4 |
| 80° | 285.4 | 278.3 | 196.2 | 134.4 | 126.1 | 130.8 | 196.2 | 267.6 | 267.6 | 243.8 | 202.2 |
| 82.5° | 204.6 | 196.2 | 129.6 | 88.0 | 83.3 | 85.6 | 127.3 | 186.7 | 190.3 | 172.4 | 136.8 |
| 85° | 135.6 | 116.6 | 70.2 | 48.8 | 45.2 | 46.4 | 66.6 | 108.2 | 118.9 | 99.9 | 71.4 |
| 87.5° | 59.5 | 39.2 | 17.8 | 7.1 | 3.6 | 4.8 | 14.3 | 34.5 | 45.2 | 29.7 | 9.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P520510

CATALOG NUMBER: 4WSLA-150-L835-UNV-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 | 2216.8 |
| 2.5° | 2224.0 | 2205.0 | 2212.1 | 2216.8 | 2212.1 | 2233.5 |
| 5° | 2221.6 | 2213.3 | 2212.1 | 2218.0 | 2208.5 | 2229.9 |
| 7.5° | 2218.0 | 2213.3 | 2212.1 | 2214.5 | 2202.6 | 2222.8 |
| 10° | 2209.7 | 2202.6 | 2205.0 | 2208.5 | 2193.1 | 2212.1 |
| 12.5° | 2194.2 | 2187.1 | 2188.3 | 2200.2 | 2178.8 | 2195.4 |
| 15° | 2168.1 | 2159.8 | 2168.1 | 2181.2 | 2162.1 | 2176.4 |
| 17.5° | 2133.6 | 2120.5 | 2134.8 | 2155.0 | 2140.7 | 2153.8 |
| 20° | 2089.6 | 2069.4 | 2084.8 | 2121.7 | 2108.6 | 2125.3 |
| 22.5° | 2036.1 | 2011.1 | 2026.6 | 2080.1 | 2076.5 | 2094.3 |
| 25° | 1975.4 | 1945.7 | 1967.1 | 2032.5 | 2039.6 | 2056.3 |
| 27.5° | 1907.6 | 1874.3 | 1902.9 | 1980.2 | 1996.8 | 2015.9 |
| 30° | 1833.9 | 1798.2 | 1831.5 | 1921.9 | 1946.9 | 1967.1 |
| 32.5° | 1757.8 | 1718.5 | 1756.6 | 1856.5 | 1892.2 | 1918.3 |
| 35° | 1678.1 | 1637.7 | 1680.5 | 1788.7 | 1831.5 | 1857.7 |
| 37.5° | 1592.5 | 1553.2 | 1599.6 | 1717.3 | 1768.5 | 1794.6 |
| 40° | 1504.5 | 1460.5 | 1512.8 | 1632.9 | 1700.7 | 1731.6 |
| 42.5° | 1414.1 | 1359.4 | 1423.6 | 1553.2 | 1627.0 | 1657.9 |
| 45° | 1313.0 | 1236.9 | 1323.7 | 1468.8 | 1546.1 | 1580.6 |
| 47.5° | 1211.9 | 1135.8 | 1223.8 | 1378.4 | 1461.6 | 1492.6 |
| 50° | 1114.4 | 1049.0 | 1119.1 | 1279.7 | 1376.0 | 1415.3 |
| 52.5° | 1025.2 | 971.7 | 1031.1 | 1183.3 | 1288.0 | 1327.3 |
| 55° | 941.9 | 900.3 | 949.1 | 1088.2 | 1195.2 | 1240.4 |
| 57.5° | 863.4 | 837.3 | 870.6 | 997.8 | 1109.6 | 1152.4 |
| 60° | 789.7 | 771.9 | 795.6 | 908.6 | 1008.5 | 1060.9 |
| 62.5° | 717.1 | 707.6 | 725.5 | 814.7 | 914.6 | 969.3 |
| 65° | 647.0 | 644.6 | 654.1 | 732.6 | 815.9 | 875.3 |
| 67.5° | 576.8 | 575.6 | 581.6 | 645.8 | 719.5 | 777.8 |
| 70° | 506.6 | 513.8 | 510.2 | 551.8 | 623.2 | 680.3 |
| 72.5° | 435.3 | 446.0 | 440.0 | 466.2 | 535.2 | 580.4 |
| 75° | 355.6 | 369.9 | 358.0 | 387.7 | 430.5 | 479.3 |
| 77.5° | 273.5 | 289.0 | 274.7 | 300.9 | 347.3 | 381.8 |
| 80° | 196.2 | 210.5 | 198.6 | 218.8 | 259.3 | 285.4 |
| 82.5° | 123.7 | 134.4 | 124.9 | 145.1 | 185.5 | 204.6 |
| 85° | 54.7 | 60.7 | 63.0 | 78.5 | 114.2 | 135.6 |
| 87.5° | 2.4 | 1.2 | 2.4 | 15.5 | 40.4 | 59.5 |
| 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)