

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: P520648

Luminaire Tested: **8WSLA-100-L950-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520648
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: 8WSLA-100-L950-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

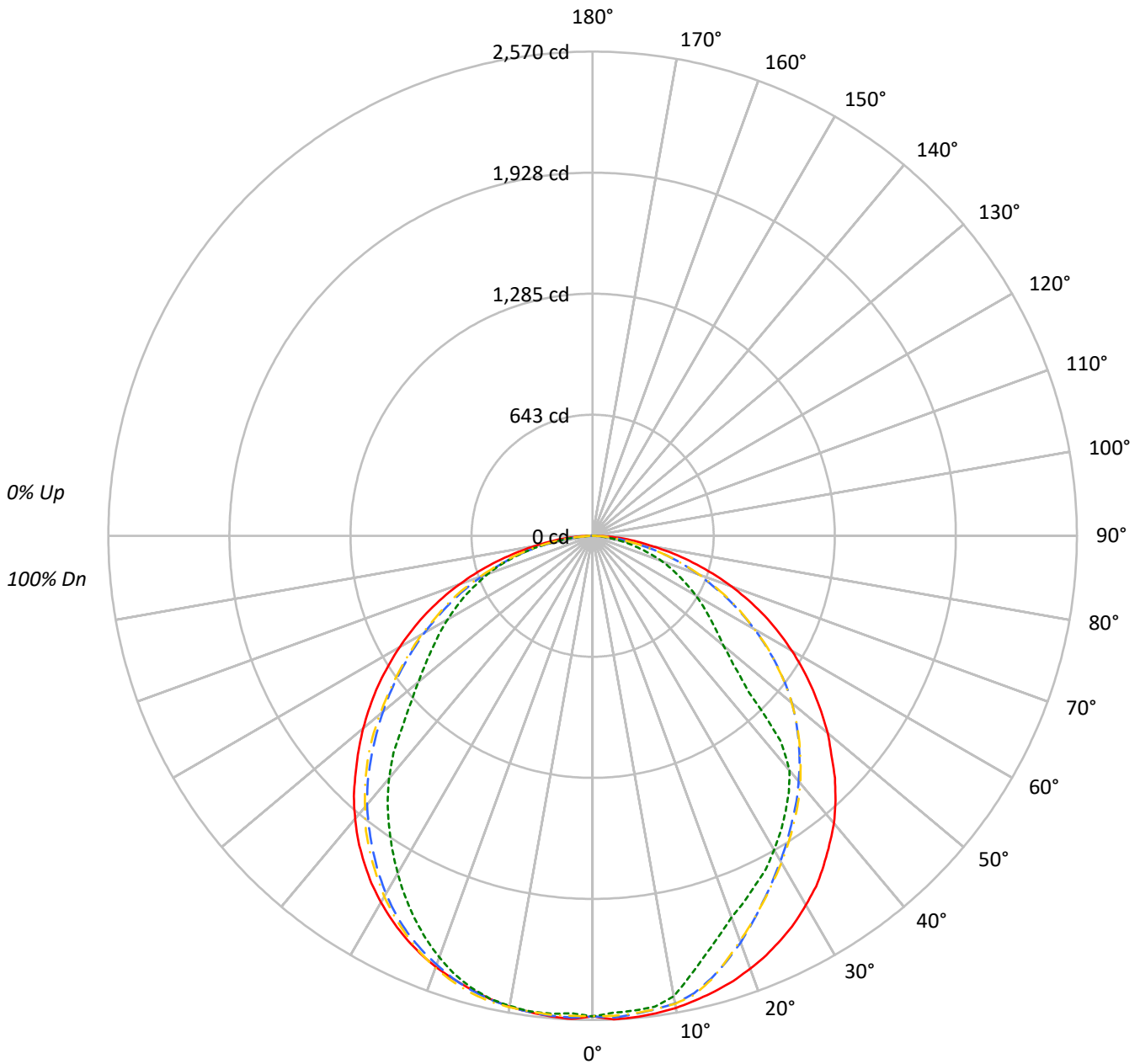
Lumens per Lamp: N/A
Luminaire Lumens: 6842.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63.4
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: P520648

CATALOG NUMBER: 8WSLA-100-L950-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520648

CATALOG NUMBER: 8WSLA-100-L950-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° | 6863 | 6863 | 6863 | 6863 |
| 5° | 6930 | 6834 | 6919 | 6878 |
| 10° | 6954 | 6782 | 6936 | 6924 |
| 15° | 6976 | 6423 | 6945 | 6922 |
| 20° | 7002 | 6171 | 6974 | 6818 |
| 25° | 7024 | 6070 | 6988 | 6646 |
| 30° | 7032 | 5982 | 6981 | 6428 |
| 35° | 7021 | 5866 | 6949 | 6189 |
| 40° | 6998 | 5710 | 6888 | 5902 |
| 45° | 6920 | 4437 | 6764 | 5415 |
| 50° | 6817 | 3798 | 6651 | 5052 |
| 55° | 6695 | 3556 | 6522 | 4860 |
| 60° | 6569 | 3395 | 6370 | 4779 |
| 65° | 6413 | 3215 | 6194 | 4722 |
| 70° | 6158 | 3057 | 5899 | 4651 |
| 75° | 5733 | 2689 | 5463 | 4424 |
| 80° | 5089 | 2247 | 4771 | 3753 |
| 85° | 4817 | 1606 | 4224 | 2155 |



TEST NUMBER: P520648

CATALOG NUMBER: 8WSLA-100-L950-UNV-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 242.3 | 3.5 |
| 10°-20° | 691.2 | 10.1 |
| 20°-30° | 1032.8 | 15.1 |
| 30°-40° | 1229.4 | 18.0 |
| 40°-50° | 1228.9 | 18.0 |
| 50°-60° | 1057.5 | 15.5 |
| 60°-70° | 795.9 | 11.6 |
| 70°-80° | 453.5 | 6.6 |
| 80°-90° | 110.4 | 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° | 1966.4 | 28.7 |
| 0°-40° | 3195.8 | 46.7 |
| 0°-60° | 5482.2 | 80.1 |
| 0°-90° | 6842.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6842.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2550 | 2550 | 2550 | 2550 | 2550 | |
| 5° | 2566 | 2530 | 2561 | 2546 | 2566 | 244 |
| 15° | 2504 | 2306 | 2493 | 2485 | 2504 | 707 |
| 25° | 2366 | 2044 | 2353 | 2238 | 2366 | 1091 |
| 35° | 2137 | 1786 | 2115 | 1884 | 2137 | 1337 |
| 45° | 1818 | 1166 | 1777 | 1423 | 1818 | 1400 |
| 55° | 1427 | 758 | 1390 | 1036 | 1427 | 1276 |
| 65° | 1007 | 505 | 973 | 742 | 1007 | 994 |
| 75° | 551 | 259 | 525 | 426 | 551 | 584 |
| 85° | 156 | 52 | 137 | 70 | 156 | 170 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P520648

CATALOG NUMBER: 8WSLA-100-L950-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 |
| 2.5° | 2569.6 | 2546.4 | 2560.0 | 2555.9 | 2534.1 | 2542.3 | 2550.5 | 2542.3 | 2566.9 | 2545.0 | 2560.0 |
| 5° | 2565.5 | 2540.9 | 2549.1 | 2540.9 | 2529.9 | 2532.7 | 2545.0 | 2536.8 | 2561.4 | 2538.2 | 2557.3 |
| 7.5° | 2557.3 | 2527.2 | 2535.4 | 2531.3 | 2521.7 | 2523.1 | 2535.4 | 2528.6 | 2550.5 | 2528.6 | 2550.5 |
| 10° | 2545.0 | 2513.5 | 2520.4 | 2502.6 | 2482.1 | 2497.1 | 2521.7 | 2514.9 | 2538.2 | 2513.5 | 2538.2 |
| 12.5° | 2525.8 | 2494.4 | 2487.5 | 2428.7 | 2391.8 | 2420.5 | 2495.7 | 2495.7 | 2517.6 | 2494.4 | 2520.4 |
| 15° | 2504.0 | 2469.7 | 2432.8 | 2343.9 | 2305.5 | 2334.3 | 2438.3 | 2473.8 | 2493.0 | 2469.7 | 2495.7 |
| 17.5° | 2478.0 | 2438.3 | 2367.1 | 2263.1 | 2227.6 | 2256.3 | 2363.0 | 2441.0 | 2465.6 | 2441.0 | 2464.3 |
| 20° | 2445.1 | 2398.6 | 2297.3 | 2178.3 | 2155.0 | 2181.0 | 2287.8 | 2401.3 | 2435.5 | 2405.4 | 2421.9 |
| 22.5° | 2409.5 | 2353.4 | 2219.3 | 2112.6 | 2101.7 | 2118.1 | 2215.2 | 2352.1 | 2397.2 | 2365.8 | 2376.7 |
| 25° | 2365.8 | 2300.1 | 2141.4 | 2052.4 | 2044.2 | 2053.8 | 2144.1 | 2294.6 | 2353.4 | 2320.6 | 2324.7 |
| 27.5° | 2319.2 | 2248.1 | 2067.5 | 2001.8 | 1993.6 | 1997.7 | 2072.9 | 2230.3 | 2302.8 | 2270.0 | 2263.1 |
| 30° | 2263.1 | 2186.5 | 1993.6 | 1933.4 | 1925.2 | 1940.2 | 2004.5 | 2164.6 | 2246.7 | 2213.9 | 2193.4 |
| 32.5° | 2207.0 | 2119.5 | 1921.1 | 1874.5 | 1858.1 | 1871.8 | 1933.4 | 2096.2 | 2185.1 | 2150.9 | 2116.7 |
| 35° | 2137.3 | 2048.3 | 1845.8 | 1799.3 | 1785.6 | 1800.7 | 1862.2 | 2025.1 | 2115.4 | 2081.2 | 2034.6 |
| 37.5° | 2064.7 | 1973.1 | 1777.4 | 1735.0 | 1710.3 | 1728.1 | 1789.7 | 1951.2 | 2042.8 | 2007.3 | 1949.8 |
| 40° | 1992.2 | 1893.7 | 1700.8 | 1657.0 | 1625.5 | 1651.5 | 1714.5 | 1873.2 | 1960.7 | 1927.9 | 1862.2 |
| 42.5° | 1907.4 | 1814.3 | 1625.5 | 1563.9 | 1475.0 | 1558.5 | 1633.7 | 1795.2 | 1875.9 | 1844.4 | 1765.1 |
| 45° | 1818.4 | 1729.5 | 1546.2 | 1397.0 | 1165.8 | 1410.7 | 1551.6 | 1713.1 | 1777.4 | 1747.3 | 1661.1 |
| 47.5° | 1717.2 | 1641.9 | 1465.4 | 1238.3 | 1013.9 | 1252.0 | 1468.2 | 1635.1 | 1684.4 | 1651.5 | 1555.7 |
| 50° | 1628.3 | 1554.4 | 1380.6 | 1104.2 | 907.2 | 1119.3 | 1379.2 | 1547.5 | 1588.6 | 1558.5 | 1451.7 |
| 52.5° | 1527.0 | 1462.7 | 1288.9 | 985.2 | 827.8 | 1000.2 | 1286.2 | 1457.2 | 1490.1 | 1454.5 | 1347.8 |
| 55° | 1427.1 | 1369.6 | 1191.8 | 879.8 | 758.0 | 893.5 | 1189.0 | 1364.2 | 1390.2 | 1349.1 | 1238.3 |
| 57.5° | 1325.9 | 1273.9 | 1091.9 | 785.4 | 693.7 | 800.4 | 1098.7 | 1268.4 | 1286.2 | 1234.2 | 1132.9 |
| 60° | 1220.5 | 1176.7 | 990.6 | 701.9 | 630.8 | 714.2 | 987.9 | 1172.6 | 1183.6 | 1127.5 | 1030.3 |
| 62.5° | 1115.1 | 1075.5 | 889.4 | 625.3 | 566.5 | 633.5 | 896.2 | 1071.4 | 1078.2 | 1024.8 | 925.0 |
| 65° | 1007.1 | 970.1 | 790.9 | 544.6 | 504.9 | 558.3 | 797.7 | 966.0 | 972.8 | 912.6 | 822.3 |
| 67.5° | 894.9 | 864.8 | 685.5 | 483.0 | 446.1 | 487.1 | 699.2 | 859.3 | 863.4 | 804.5 | 722.5 |
| 70° | 782.7 | 756.7 | 592.5 | 416.0 | 388.6 | 417.3 | 602.0 | 741.6 | 749.8 | 686.9 | 621.2 |
| 72.5° | 667.7 | 647.2 | 502.2 | 346.2 | 321.5 | 346.2 | 507.6 | 633.5 | 639.0 | 587.0 | 522.7 |
| 75° | 551.4 | 536.4 | 410.5 | 277.8 | 258.6 | 276.4 | 413.2 | 525.4 | 525.4 | 476.2 | 425.5 |
| 77.5° | 439.2 | 428.3 | 314.7 | 213.5 | 199.8 | 210.7 | 316.1 | 416.0 | 413.2 | 374.9 | 335.2 |
| 80° | 328.4 | 320.2 | 225.8 | 154.6 | 145.0 | 150.5 | 225.8 | 307.9 | 307.9 | 280.5 | 232.6 |
| 82.5° | 235.3 | 225.8 | 149.1 | 101.3 | 95.8 | 98.5 | 146.4 | 214.8 | 218.9 | 198.4 | 157.4 |
| 85° | 156.0 | 134.1 | 80.7 | 56.1 | 52.0 | 53.4 | 76.6 | 124.5 | 136.8 | 114.9 | 82.1 |
| 87.5° | 68.4 | 45.2 | 20.5 | 8.2 | 4.1 | 5.5 | 16.4 | 39.7 | 52.0 | 34.2 | 10.9 |
| 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: P520648

CATALOG NUMBER: 8WSLA-100-L950-UNV-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 | 2550.5 |
| 2.5° | 2558.7 | 2536.8 | 2545.0 | 2550.5 | 2545.0 | 2569.6 |
| 5° | 2555.9 | 2546.4 | 2545.0 | 2551.8 | 2540.9 | 2565.5 |
| 7.5° | 2551.8 | 2546.4 | 2545.0 | 2547.7 | 2534.1 | 2557.3 |
| 10° | 2542.3 | 2534.1 | 2536.8 | 2540.9 | 2523.1 | 2545.0 |
| 12.5° | 2524.5 | 2516.3 | 2517.6 | 2531.3 | 2506.7 | 2525.8 |
| 15° | 2494.4 | 2484.8 | 2494.4 | 2509.4 | 2487.5 | 2504.0 |
| 17.5° | 2454.7 | 2439.6 | 2456.1 | 2479.3 | 2462.9 | 2478.0 |
| 20° | 2404.1 | 2380.8 | 2398.6 | 2441.0 | 2426.0 | 2445.1 |
| 22.5° | 2342.5 | 2313.8 | 2331.5 | 2393.1 | 2389.0 | 2409.5 |
| 25° | 2272.7 | 2238.5 | 2263.1 | 2338.4 | 2346.6 | 2365.8 |
| 27.5° | 2194.7 | 2156.4 | 2189.2 | 2278.2 | 2297.3 | 2319.2 |
| 30° | 2109.9 | 2068.8 | 2107.1 | 2211.1 | 2239.9 | 2263.1 |
| 32.5° | 2022.3 | 1977.2 | 2020.9 | 2135.9 | 2176.9 | 2207.0 |
| 35° | 1930.6 | 1884.1 | 1933.4 | 2057.9 | 2107.1 | 2137.3 |
| 37.5° | 1832.1 | 1787.0 | 1840.3 | 1975.8 | 2034.6 | 2064.7 |
| 40° | 1730.9 | 1680.2 | 1740.5 | 1878.6 | 1956.6 | 1992.2 |
| 42.5° | 1626.9 | 1563.9 | 1637.8 | 1787.0 | 1871.8 | 1907.4 |
| 45° | 1510.6 | 1423.0 | 1522.9 | 1689.8 | 1778.8 | 1818.4 |
| 47.5° | 1394.3 | 1306.7 | 1408.0 | 1585.8 | 1681.6 | 1717.2 |
| 50° | 1282.1 | 1206.8 | 1287.6 | 1472.3 | 1583.1 | 1628.3 |
| 52.5° | 1179.5 | 1117.9 | 1186.3 | 1361.4 | 1481.8 | 1527.0 |
| 55° | 1083.7 | 1035.8 | 1091.9 | 1252.0 | 1375.1 | 1427.1 |
| 57.5° | 993.4 | 963.3 | 1001.6 | 1148.0 | 1276.6 | 1325.9 |
| 60° | 908.5 | 888.0 | 915.4 | 1045.4 | 1160.3 | 1220.5 |
| 62.5° | 825.1 | 814.1 | 834.7 | 937.3 | 1052.2 | 1115.1 |
| 65° | 744.3 | 741.6 | 752.6 | 842.9 | 938.6 | 1007.1 |
| 67.5° | 663.6 | 662.2 | 669.1 | 743.0 | 827.8 | 894.9 |
| 70° | 582.9 | 591.1 | 587.0 | 634.9 | 717.0 | 782.7 |
| 72.5° | 500.8 | 513.1 | 506.3 | 536.4 | 615.7 | 667.7 |
| 75° | 409.1 | 425.5 | 411.9 | 446.1 | 495.3 | 551.4 |
| 77.5° | 314.7 | 332.5 | 316.1 | 346.2 | 399.5 | 439.2 |
| 80° | 225.8 | 242.2 | 228.5 | 251.8 | 298.3 | 328.4 |
| 82.5° | 142.3 | 154.6 | 143.7 | 166.9 | 213.5 | 235.3 |
| 85° | 62.9 | 69.8 | 72.5 | 90.3 | 131.4 | 156.0 |
| 87.5° | 2.7 | 1.4 | 2.7 | 17.8 | 46.5 | 68.4 |
| 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)