

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: P520774

Luminaire Tested: **8WSLA-75-L835-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520774
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-75-L835-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

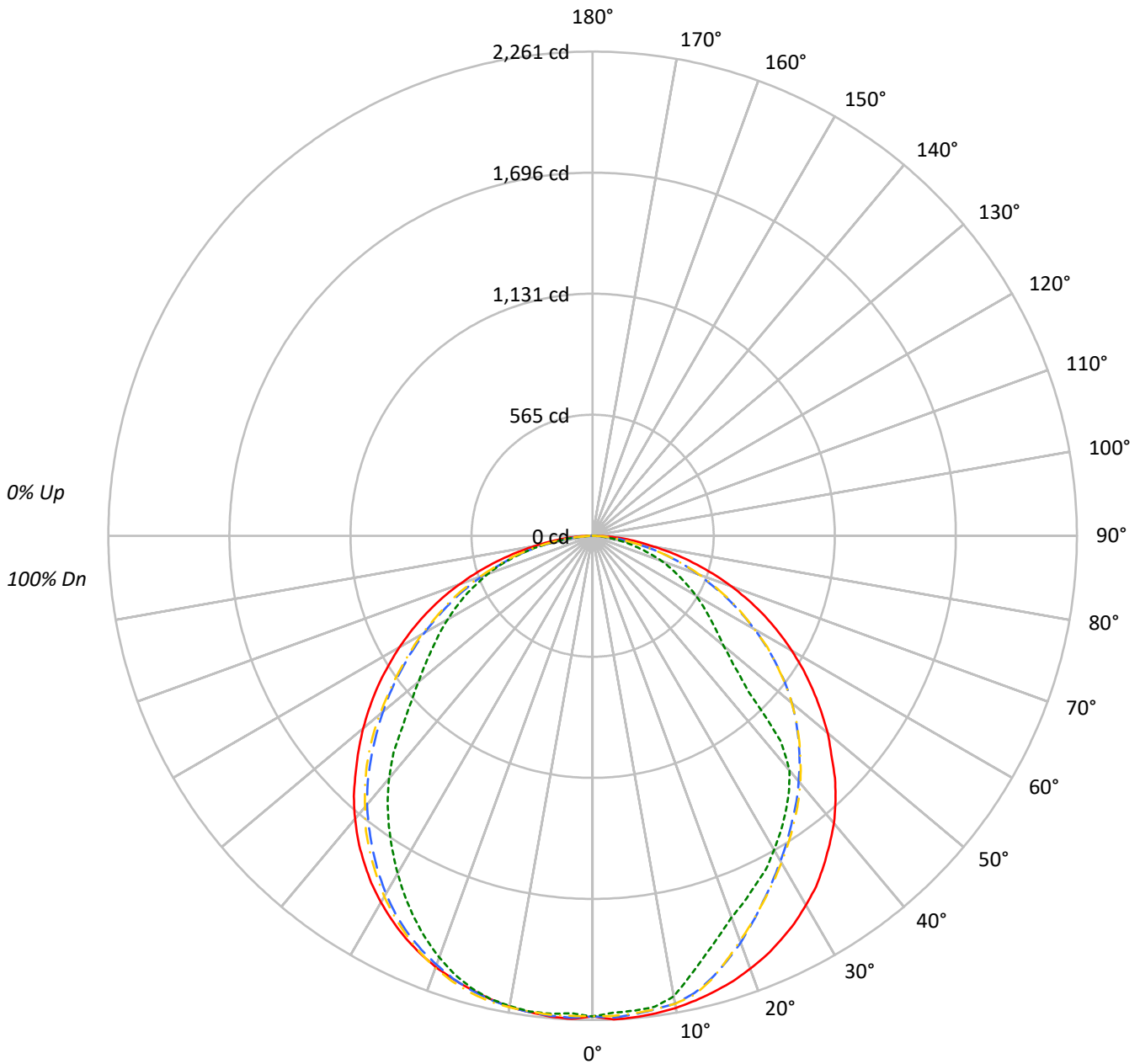
Lumens per Lamp: N/A
Luminaire Lumens: 6020.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 46.6
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: P520774

CATALOG NUMBER: 8WSLA-75-L835-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520774

CATALOG NUMBER: 8WSLA-75-L835-UNV-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 |
| RC | 80 | | | | 70 | | | | 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° | 6039 | 6039 | 6039 | 6039 |
| 5° | 6098 | 6013 | 6088 | 6052 |
| 10° | 6119 | 5967 | 6102 | 6092 |
| 15° | 6138 | 5651 | 6111 | 6091 |
| 20° | 6161 | 5430 | 6137 | 5999 |
| 25° | 6180 | 5340 | 6148 | 5848 |
| 30° | 6187 | 5263 | 6142 | 5656 |
| 35° | 6178 | 5161 | 6114 | 5446 |
| 40° | 6158 | 5024 | 6060 | 5193 |
| 45° | 6089 | 3903 | 5952 | 4765 |
| 50° | 5997 | 3342 | 5851 | 4445 |
| 55° | 5891 | 3129 | 5739 | 4275 |
| 60° | 5780 | 2987 | 5605 | 4205 |
| 65° | 5642 | 2828 | 5450 | 4155 |
| 70° | 5418 | 2690 | 5190 | 4092 |
| 75° | 5045 | 2365 | 4807 | 3893 |
| 80° | 4477 | 1977 | 4198 | 3302 |
| 85° | 4236 | 1411 | 3717 | 1896 |



TEST NUMBER: P520774

CATALOG NUMBER: 8WSLA-75-L835-UNV-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 213.2 | 3.5 |
| 10°-20° | 608.2 | 10.1 |
| 20°-30° | 908.7 | 15.1 |
| 30°-40° | 1081.7 | 18.0 |
| 40°-50° | 1081.3 | 18.0 |
| 50°-60° | 930.4 | 15.5 |
| 60°-70° | 700.3 | 11.6 |
| 70°-80° | 399.1 | 6.6 |
| 80°-90° | 97.1 | 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° | 1730.1 | 28.7 |
| 0°-40° | 2811.9 | 46.7 |
| 0°-60° | 4823.5 | 80.1 |
| 0°-90° | 6020.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6020.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2244 | 2244 | 2244 | 2244 | 2244 | |
| 5° | 2257 | 2226 | 2254 | 2240 | 2257 | 215 |
| 15° | 2203 | 2029 | 2194 | 2186 | 2203 | 622 |
| 25° | 2082 | 1799 | 2071 | 1970 | 2082 | 960 |
| 35° | 1880 | 1571 | 1861 | 1658 | 1880 | 1177 |
| 45° | 1600 | 1026 | 1564 | 1252 | 1600 | 1232 |
| 55° | 1256 | 667 | 1223 | 911 | 1256 | 1123 |
| 65° | 886 | 444 | 856 | 652 | 886 | 875 |
| 75° | 485 | 228 | 462 | 374 | 485 | 514 |
| 85° | 137 | 46 | 120 | 61 | 137 | 149 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P520774

CATALOG NUMBER: 8WSLA-75-L835-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 |
| 2.5° | 2260.9 | 2240.4 | 2252.5 | 2248.9 | 2229.6 | 2236.8 | 2244.1 | 2236.8 | 2258.5 | 2239.2 | 2252.5 |
| 5° | 2257.3 | 2235.6 | 2242.9 | 2235.6 | 2226.0 | 2228.4 | 2239.2 | 2232.0 | 2253.7 | 2233.2 | 2250.1 |
| 7.5° | 2250.1 | 2223.6 | 2230.8 | 2227.2 | 2218.8 | 2220.0 | 2230.8 | 2224.8 | 2244.1 | 2224.8 | 2244.1 |
| 10° | 2239.2 | 2211.6 | 2217.6 | 2201.9 | 2183.9 | 2197.1 | 2218.8 | 2212.8 | 2233.2 | 2211.6 | 2233.2 |
| 12.5° | 2222.4 | 2194.7 | 2188.7 | 2136.9 | 2104.4 | 2129.7 | 2195.9 | 2195.9 | 2215.2 | 2194.7 | 2217.6 |
| 15° | 2203.1 | 2173.0 | 2140.5 | 2062.3 | 2028.6 | 2053.8 | 2145.3 | 2176.6 | 2193.5 | 2173.0 | 2195.9 |
| 17.5° | 2180.3 | 2145.3 | 2082.7 | 1991.2 | 1959.9 | 1985.2 | 2079.1 | 2147.7 | 2169.4 | 2147.7 | 2168.2 |
| 20° | 2151.4 | 2110.4 | 2021.3 | 1916.6 | 1896.1 | 1919.0 | 2012.9 | 2112.8 | 2142.9 | 2116.4 | 2130.9 |
| 22.5° | 2120.1 | 2070.7 | 1952.7 | 1858.8 | 1849.2 | 1863.6 | 1949.1 | 2069.5 | 2109.2 | 2081.5 | 2091.2 |
| 25° | 2081.5 | 2023.7 | 1884.1 | 1805.8 | 1798.6 | 1807.0 | 1886.5 | 2018.9 | 2070.7 | 2041.8 | 2045.4 |
| 27.5° | 2040.6 | 1978.0 | 1819.1 | 1761.3 | 1754.1 | 1757.7 | 1823.9 | 1962.3 | 2026.2 | 1997.3 | 1991.2 |
| 30° | 1991.2 | 1923.8 | 1754.1 | 1701.1 | 1693.9 | 1707.1 | 1763.7 | 1904.6 | 1976.8 | 1947.9 | 1929.8 |
| 32.5° | 1941.9 | 1864.8 | 1690.3 | 1649.3 | 1634.9 | 1646.9 | 1701.1 | 1844.4 | 1922.6 | 1892.5 | 1862.4 |
| 35° | 1880.5 | 1802.2 | 1624.1 | 1583.1 | 1571.1 | 1584.3 | 1638.5 | 1781.8 | 1861.2 | 1831.1 | 1790.2 |
| 37.5° | 1816.7 | 1736.0 | 1563.9 | 1526.5 | 1504.9 | 1520.5 | 1574.7 | 1716.8 | 1797.4 | 1766.1 | 1715.5 |
| 40° | 1752.9 | 1666.2 | 1496.4 | 1457.9 | 1430.2 | 1453.1 | 1508.5 | 1648.1 | 1725.2 | 1696.3 | 1638.5 |
| 42.5° | 1678.2 | 1596.4 | 1430.2 | 1376.1 | 1297.8 | 1371.2 | 1437.4 | 1579.5 | 1650.5 | 1622.8 | 1553.0 |
| 45° | 1600.0 | 1521.7 | 1360.4 | 1229.2 | 1025.7 | 1241.2 | 1365.2 | 1507.3 | 1563.9 | 1537.4 | 1461.5 |
| 47.5° | 1510.9 | 1444.7 | 1289.4 | 1089.5 | 892.1 | 1101.6 | 1291.8 | 1438.7 | 1482.0 | 1453.1 | 1368.8 |
| 50° | 1432.6 | 1367.6 | 1214.7 | 971.5 | 798.2 | 984.8 | 1213.5 | 1361.6 | 1397.7 | 1371.2 | 1277.3 |
| 52.5° | 1343.5 | 1287.0 | 1134.1 | 866.8 | 728.4 | 880.0 | 1131.7 | 1282.1 | 1311.0 | 1279.7 | 1185.8 |
| 55° | 1255.7 | 1205.1 | 1048.6 | 774.1 | 667.0 | 786.1 | 1046.2 | 1200.3 | 1223.2 | 1187.0 | 1089.5 |
| 57.5° | 1166.6 | 1120.8 | 960.7 | 691.0 | 610.4 | 704.3 | 966.7 | 1116.0 | 1131.7 | 1085.9 | 996.8 |
| 60° | 1073.9 | 1035.3 | 871.6 | 617.6 | 555.0 | 628.4 | 869.2 | 1031.7 | 1041.4 | 992.0 | 906.5 |
| 62.5° | 981.2 | 946.3 | 782.5 | 550.2 | 498.4 | 557.4 | 788.6 | 942.6 | 948.7 | 901.7 | 813.8 |
| 65° | 886.1 | 853.6 | 695.9 | 479.1 | 444.2 | 491.2 | 701.9 | 849.9 | 856.0 | 803.0 | 723.5 |
| 67.5° | 787.3 | 760.9 | 603.2 | 425.0 | 392.5 | 428.6 | 615.2 | 756.0 | 759.7 | 707.9 | 635.7 |
| 70° | 688.6 | 665.8 | 521.3 | 366.0 | 341.9 | 367.2 | 529.7 | 652.5 | 659.7 | 604.4 | 546.6 |
| 72.5° | 587.5 | 569.4 | 441.8 | 304.6 | 282.9 | 304.6 | 446.6 | 557.4 | 562.2 | 516.5 | 459.9 |
| 75° | 485.2 | 471.9 | 361.2 | 244.4 | 227.5 | 243.2 | 363.6 | 462.3 | 462.3 | 419.0 | 374.4 |
| 77.5° | 386.4 | 376.8 | 276.9 | 187.8 | 175.8 | 185.4 | 278.1 | 366.0 | 363.6 | 329.9 | 295.0 |
| 80° | 288.9 | 281.7 | 198.6 | 136.0 | 127.6 | 132.4 | 198.6 | 270.9 | 270.9 | 246.8 | 204.7 |
| 82.5° | 207.1 | 198.6 | 131.2 | 89.1 | 84.3 | 86.7 | 128.8 | 189.0 | 192.6 | 174.6 | 138.4 |
| 85° | 137.2 | 118.0 | 71.0 | 49.4 | 45.7 | 47.0 | 67.4 | 109.6 | 120.4 | 101.1 | 72.2 |
| 87.5° | 60.2 | 39.7 | 18.1 | 7.2 | 3.6 | 4.8 | 14.4 | 34.9 | 45.7 | 30.1 | 9.6 |
| 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: P520774

CATALOG NUMBER: 8WSLA-75-L835-UNV-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 | 2244.1 |
| 2.5° | 2251.3 | 2232.0 | 2239.2 | 2244.1 | 2239.2 | 2260.9 |
| 5° | 2248.9 | 2240.4 | 2239.2 | 2245.3 | 2235.6 | 2257.3 |
| 7.5° | 2245.3 | 2240.4 | 2239.2 | 2241.6 | 2229.6 | 2250.1 |
| 10° | 2236.8 | 2229.6 | 2232.0 | 2235.6 | 2220.0 | 2239.2 |
| 12.5° | 2221.2 | 2214.0 | 2215.2 | 2227.2 | 2205.5 | 2222.4 |
| 15° | 2194.7 | 2186.3 | 2194.7 | 2207.9 | 2188.7 | 2203.1 |
| 17.5° | 2159.8 | 2146.5 | 2161.0 | 2181.5 | 2167.0 | 2180.3 |
| 20° | 2115.2 | 2094.8 | 2110.4 | 2147.7 | 2134.5 | 2151.4 |
| 22.5° | 2061.1 | 2035.8 | 2051.4 | 2105.6 | 2102.0 | 2120.1 |
| 25° | 1999.7 | 1969.6 | 1991.2 | 2057.5 | 2064.7 | 2081.5 |
| 27.5° | 1931.0 | 1897.3 | 1926.2 | 2004.5 | 2021.3 | 2040.6 |
| 30° | 1856.4 | 1820.3 | 1854.0 | 1945.5 | 1970.8 | 1991.2 |
| 32.5° | 1779.4 | 1739.6 | 1778.2 | 1879.3 | 1915.4 | 1941.9 |
| 35° | 1698.7 | 1657.8 | 1701.1 | 1810.7 | 1854.0 | 1880.5 |
| 37.5° | 1612.0 | 1572.3 | 1619.2 | 1738.4 | 1790.2 | 1816.7 |
| 40° | 1522.9 | 1478.4 | 1531.4 | 1652.9 | 1721.6 | 1752.9 |
| 42.5° | 1431.4 | 1376.1 | 1441.1 | 1572.3 | 1646.9 | 1678.2 |
| 45° | 1329.1 | 1252.0 | 1339.9 | 1486.8 | 1565.1 | 1600.0 |
| 47.5° | 1226.8 | 1149.7 | 1238.8 | 1395.3 | 1479.6 | 1510.9 |
| 50° | 1128.0 | 1061.8 | 1132.9 | 1295.4 | 1392.9 | 1432.6 |
| 52.5° | 1037.8 | 983.6 | 1043.8 | 1197.9 | 1303.8 | 1343.5 |
| 55° | 953.5 | 911.3 | 960.7 | 1101.6 | 1209.9 | 1255.7 |
| 57.5° | 874.0 | 847.5 | 881.2 | 1010.1 | 1123.2 | 1166.6 |
| 60° | 799.4 | 781.3 | 805.4 | 919.8 | 1020.9 | 1073.9 |
| 62.5° | 725.9 | 716.3 | 734.4 | 824.7 | 925.8 | 981.2 |
| 65° | 654.9 | 652.5 | 662.1 | 741.6 | 825.9 | 886.1 |
| 67.5° | 583.9 | 582.7 | 588.7 | 653.7 | 728.4 | 787.3 |
| 70° | 512.9 | 520.1 | 516.5 | 558.6 | 630.8 | 688.6 |
| 72.5° | 440.6 | 451.5 | 445.4 | 471.9 | 541.8 | 587.5 |
| 75° | 360.0 | 374.4 | 362.4 | 392.5 | 435.8 | 485.2 |
| 77.5° | 276.9 | 292.5 | 278.1 | 304.6 | 351.5 | 386.4 |
| 80° | 198.6 | 213.1 | 201.1 | 221.5 | 262.4 | 288.9 |
| 82.5° | 125.2 | 136.0 | 126.4 | 146.9 | 187.8 | 207.1 |
| 85° | 55.4 | 61.4 | 63.8 | 79.5 | 115.6 | 137.2 |
| 87.5° | 2.4 | 1.2 | 2.4 | 15.7 | 40.9 | 60.2 |
| 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)