

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: P520462

Luminaire Tested: **4WSLA-100-L835-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520462
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-100-L835-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

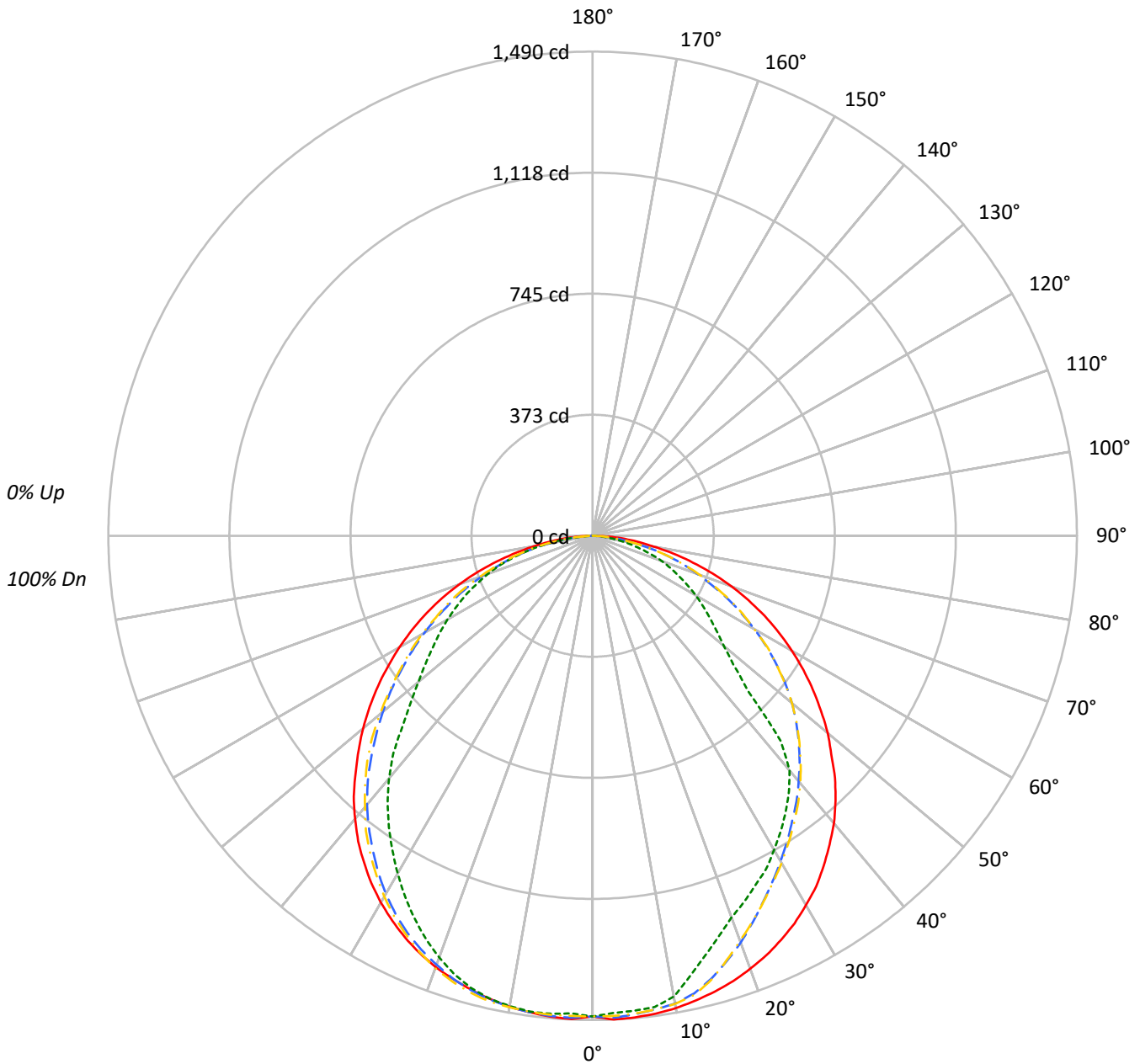
Lumens per Lamp: N/A
Luminaire Lumens: 3968.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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: P520462

CATALOG NUMBER: 4WSLA-100-L835-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520462

CATALOG NUMBER: 4WSLA-100-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° | 7960 | 7960 | 7960 | 7960 |
| 5° | 8038 | 7927 | 8025 | 7978 |
| 10° | 8066 | 7867 | 8044 | 8031 |
| 15° | 8091 | 7450 | 8056 | 8029 |
| 20° | 8121 | 7158 | 8090 | 7908 |
| 25° | 8147 | 7040 | 8105 | 7709 |
| 30° | 8157 | 6939 | 8098 | 7456 |
| 35° | 8144 | 6804 | 8060 | 7179 |
| 40° | 8117 | 6623 | 7989 | 6846 |
| 45° | 8027 | 5146 | 7846 | 6282 |
| 50° | 7906 | 4405 | 7714 | 5860 |
| 55° | 7766 | 4125 | 7565 | 5636 |
| 60° | 7619 | 3937 | 7388 | 5543 |
| 65° | 7437 | 3729 | 7185 | 5477 |
| 70° | 7142 | 3547 | 6843 | 5394 |
| 75° | 6650 | 3119 | 6336 | 5132 |
| 80° | 5901 | 2607 | 5532 | 4355 |
| 85° | 5588 | 1865 | 4903 | 2501 |



TEST NUMBER: P520462

CATALOG NUMBER: 4WSLA-100-L835-UNV-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.5 | 3.5 |
| 10°-20° | 400.9 | 10.1 |
| 20°-30° | 599.0 | 15.1 |
| 30°-40° | 713.0 | 18.0 |
| 40°-50° | 712.7 | 18.0 |
| 50°-60° | 613.3 | 15.5 |
| 60°-70° | 461.6 | 11.6 |
| 70°-80° | 263.0 | 6.6 |
| 80°-90° | 64.0 | 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° | 1140.4 | 28.7 |
| 0°-40° | 1853.4 | 46.7 |
| 0°-60° | 3179.4 | 80.1 |
| 0°-90° | 3968.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3968.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1479 | 1479 | 1479 | 1479 | 1479 | |
| 5° | 1488 | 1467 | 1486 | 1477 | 1488 | 142 |
| 15° | 1452 | 1337 | 1446 | 1441 | 1452 | 410 |
| 25° | 1372 | 1186 | 1365 | 1298 | 1372 | 633 |
| 35° | 1240 | 1036 | 1227 | 1093 | 1240 | 776 |
| 45° | 1055 | 676 | 1031 | 825 | 1055 | 812 |
| 55° | 828 | 440 | 806 | 601 | 828 | 740 |
| 65° | 584 | 293 | 564 | 430 | 584 | 577 |
| 75° | 320 | 150 | 305 | 247 | 320 | 339 |
| 85° | 90 | 30 | 79 | 40 | 90 | 98 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P520462

CATALOG NUMBER: 4WSLA-100-L835-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 |
| 2.5° | 1490.2 | 1476.8 | 1484.7 | 1482.3 | 1469.6 | 1474.4 | 1479.1 | 1474.4 | 1488.7 | 1476.0 | 1484.7 |
| 5° | 1487.9 | 1473.6 | 1478.3 | 1473.6 | 1467.2 | 1468.8 | 1476.0 | 1471.2 | 1485.5 | 1472.0 | 1483.1 |
| 7.5° | 1483.1 | 1465.6 | 1470.4 | 1468.0 | 1462.5 | 1463.3 | 1470.4 | 1466.4 | 1479.1 | 1466.4 | 1479.1 |
| 10° | 1476.0 | 1457.7 | 1461.7 | 1451.4 | 1439.5 | 1448.2 | 1462.5 | 1458.5 | 1472.0 | 1457.7 | 1472.0 |
| 12.5° | 1464.9 | 1446.6 | 1442.6 | 1408.5 | 1387.1 | 1403.8 | 1447.4 | 1447.4 | 1460.1 | 1446.6 | 1461.7 |
| 15° | 1452.2 | 1432.3 | 1410.9 | 1359.3 | 1337.1 | 1353.8 | 1414.1 | 1434.7 | 1445.8 | 1432.3 | 1447.4 |
| 17.5° | 1437.1 | 1414.1 | 1372.8 | 1312.5 | 1291.9 | 1308.5 | 1370.4 | 1415.7 | 1429.9 | 1415.7 | 1429.1 |
| 20° | 1418.0 | 1391.1 | 1332.3 | 1263.3 | 1249.8 | 1264.9 | 1326.8 | 1392.6 | 1412.5 | 1395.0 | 1404.5 |
| 22.5° | 1397.4 | 1364.9 | 1287.1 | 1225.2 | 1218.9 | 1228.4 | 1284.7 | 1364.1 | 1390.3 | 1372.0 | 1378.4 |
| 25° | 1372.0 | 1333.9 | 1241.9 | 1190.3 | 1185.5 | 1191.1 | 1243.5 | 1330.7 | 1364.9 | 1345.8 | 1348.2 |
| 27.5° | 1345.0 | 1303.8 | 1199.0 | 1160.9 | 1156.2 | 1158.6 | 1202.2 | 1293.5 | 1335.5 | 1316.5 | 1312.5 |
| 30° | 1312.5 | 1268.1 | 1156.2 | 1121.3 | 1116.5 | 1125.2 | 1162.5 | 1255.4 | 1303.0 | 1283.9 | 1272.0 |
| 32.5° | 1280.0 | 1229.2 | 1114.1 | 1087.1 | 1077.6 | 1085.5 | 1121.3 | 1215.7 | 1267.3 | 1247.4 | 1227.6 |
| 35° | 1239.5 | 1187.9 | 1070.5 | 1043.5 | 1035.6 | 1044.3 | 1080.0 | 1174.4 | 1226.8 | 1207.0 | 1180.0 |
| 37.5° | 1197.4 | 1144.3 | 1030.8 | 1006.2 | 991.9 | 1002.2 | 1037.9 | 1131.6 | 1184.7 | 1164.1 | 1130.8 |
| 40° | 1155.4 | 1098.2 | 986.4 | 961.0 | 942.7 | 957.8 | 994.3 | 1086.3 | 1137.1 | 1118.1 | 1080.0 |
| 42.5° | 1106.2 | 1052.2 | 942.7 | 907.0 | 855.4 | 903.8 | 947.5 | 1041.1 | 1087.9 | 1069.7 | 1023.7 |
| 45° | 1054.6 | 1003.0 | 896.7 | 810.2 | 676.1 | 818.1 | 899.9 | 993.5 | 1030.8 | 1013.3 | 963.3 |
| 47.5° | 995.9 | 952.2 | 849.9 | 718.1 | 588.0 | 726.1 | 851.5 | 948.3 | 976.8 | 957.8 | 902.2 |
| 50° | 944.3 | 901.4 | 800.7 | 640.4 | 526.1 | 649.1 | 799.9 | 897.5 | 921.3 | 903.8 | 841.9 |
| 52.5° | 885.6 | 848.3 | 747.5 | 571.3 | 480.1 | 580.1 | 745.9 | 845.1 | 864.2 | 843.5 | 781.6 |
| 55° | 827.7 | 794.3 | 691.2 | 510.2 | 439.6 | 518.2 | 689.6 | 791.1 | 806.2 | 782.4 | 718.1 |
| 57.5° | 768.9 | 738.8 | 633.2 | 455.5 | 402.3 | 464.2 | 637.2 | 735.6 | 745.9 | 715.8 | 657.0 |
| 60° | 707.8 | 682.4 | 574.5 | 407.1 | 365.8 | 414.2 | 572.9 | 680.1 | 686.4 | 653.9 | 597.5 |
| 62.5° | 646.7 | 623.7 | 515.8 | 362.6 | 328.5 | 367.4 | 519.8 | 621.3 | 625.3 | 594.4 | 536.4 |
| 65° | 584.0 | 562.6 | 458.7 | 315.8 | 292.8 | 323.8 | 462.6 | 560.2 | 564.2 | 529.3 | 476.9 |
| 67.5° | 519.0 | 501.5 | 397.6 | 280.1 | 258.7 | 282.5 | 405.5 | 498.3 | 500.7 | 466.6 | 419.0 |
| 70° | 453.9 | 438.8 | 343.6 | 241.2 | 225.4 | 242.0 | 349.2 | 430.1 | 434.9 | 398.4 | 360.3 |
| 72.5° | 387.2 | 375.3 | 291.2 | 200.8 | 186.5 | 200.8 | 294.4 | 367.4 | 370.6 | 340.4 | 303.1 |
| 75° | 319.8 | 311.1 | 238.1 | 161.1 | 150.0 | 160.3 | 239.6 | 304.7 | 304.7 | 276.1 | 246.8 |
| 77.5° | 254.7 | 248.4 | 182.5 | 123.8 | 115.9 | 122.2 | 183.3 | 241.2 | 239.6 | 217.4 | 194.4 |
| 80° | 190.4 | 185.7 | 130.9 | 89.7 | 84.1 | 87.3 | 130.9 | 178.5 | 178.5 | 162.7 | 134.9 |
| 82.5° | 136.5 | 130.9 | 86.5 | 58.7 | 55.5 | 57.1 | 84.9 | 124.6 | 127.0 | 115.1 | 91.3 |
| 85° | 90.5 | 77.8 | 46.8 | 32.5 | 30.2 | 30.9 | 44.4 | 72.2 | 79.4 | 66.7 | 47.6 |
| 87.5° | 39.7 | 26.2 | 11.9 | 4.8 | 2.4 | 3.2 | 9.5 | 23.0 | 30.2 | 19.8 | 6.3 |
| 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: P520462

CATALOG NUMBER: 4WSLA-100-L835-UNV-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 | 1479.1 |
| 2.5° | 1483.9 | 1471.2 | 1476.0 | 1479.1 | 1476.0 | 1490.2 |
| 5° | 1482.3 | 1476.8 | 1476.0 | 1479.9 | 1473.6 | 1487.9 |
| 7.5° | 1479.9 | 1476.8 | 1476.0 | 1477.6 | 1469.6 | 1483.1 |
| 10° | 1474.4 | 1469.6 | 1471.2 | 1473.6 | 1463.3 | 1476.0 |
| 12.5° | 1464.1 | 1459.3 | 1460.1 | 1468.0 | 1453.7 | 1464.9 |
| 15° | 1446.6 | 1441.0 | 1446.6 | 1455.3 | 1442.6 | 1452.2 |
| 17.5° | 1423.6 | 1414.9 | 1424.4 | 1437.9 | 1428.4 | 1437.1 |
| 20° | 1394.2 | 1380.7 | 1391.1 | 1415.7 | 1406.9 | 1418.0 |
| 22.5° | 1358.5 | 1341.9 | 1352.2 | 1387.9 | 1385.5 | 1397.4 |
| 25° | 1318.1 | 1298.2 | 1312.5 | 1356.1 | 1360.9 | 1372.0 |
| 27.5° | 1272.8 | 1250.6 | 1269.6 | 1321.2 | 1332.3 | 1345.0 |
| 30° | 1223.6 | 1199.8 | 1222.0 | 1282.3 | 1299.0 | 1312.5 |
| 32.5° | 1172.8 | 1146.7 | 1172.0 | 1238.7 | 1262.5 | 1280.0 |
| 35° | 1119.7 | 1092.7 | 1121.3 | 1193.5 | 1222.0 | 1239.5 |
| 37.5° | 1062.5 | 1036.3 | 1067.3 | 1145.9 | 1180.0 | 1197.4 |
| 40° | 1003.8 | 974.5 | 1009.4 | 1089.5 | 1134.7 | 1155.4 |
| 42.5° | 943.5 | 907.0 | 949.9 | 1036.3 | 1085.5 | 1106.2 |
| 45° | 876.1 | 825.3 | 883.2 | 980.0 | 1031.6 | 1054.6 |
| 47.5° | 808.6 | 757.8 | 816.5 | 919.7 | 975.2 | 995.9 |
| 50° | 743.5 | 699.9 | 746.7 | 853.8 | 918.1 | 944.3 |
| 52.5° | 684.0 | 648.3 | 688.0 | 789.6 | 859.4 | 885.6 |
| 55° | 628.5 | 600.7 | 633.2 | 726.1 | 797.5 | 827.7 |
| 57.5° | 576.1 | 558.6 | 580.9 | 665.8 | 740.4 | 768.9 |
| 60° | 526.9 | 515.0 | 530.9 | 606.3 | 672.9 | 707.8 |
| 62.5° | 478.5 | 472.2 | 484.1 | 543.6 | 610.2 | 646.7 |
| 65° | 431.7 | 430.1 | 436.4 | 488.8 | 544.4 | 584.0 |
| 67.5° | 384.9 | 384.1 | 388.0 | 430.9 | 480.1 | 519.0 |
| 70° | 338.0 | 342.8 | 340.4 | 368.2 | 415.8 | 453.9 |
| 72.5° | 290.4 | 297.6 | 293.6 | 311.1 | 357.1 | 387.2 |
| 75° | 237.3 | 246.8 | 238.9 | 258.7 | 287.3 | 319.8 |
| 77.5° | 182.5 | 192.8 | 183.3 | 200.8 | 231.7 | 254.7 |
| 80° | 130.9 | 140.5 | 132.5 | 146.0 | 173.0 | 190.4 |
| 82.5° | 82.5 | 89.7 | 83.3 | 96.8 | 123.8 | 136.5 |
| 85° | 36.5 | 40.5 | 42.1 | 52.4 | 76.2 | 90.5 |
| 87.5° | 1.6 | 0.8 | 1.6 | 10.3 | 27.0 | 39.7 |
| 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)