

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: METALUX

Report Number: P855746

Luminaire Tested: **24SFS-L3C4-NUV-MED-5000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (BL231218008-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SFS-L3C4-NUV-MED-5000K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 5000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

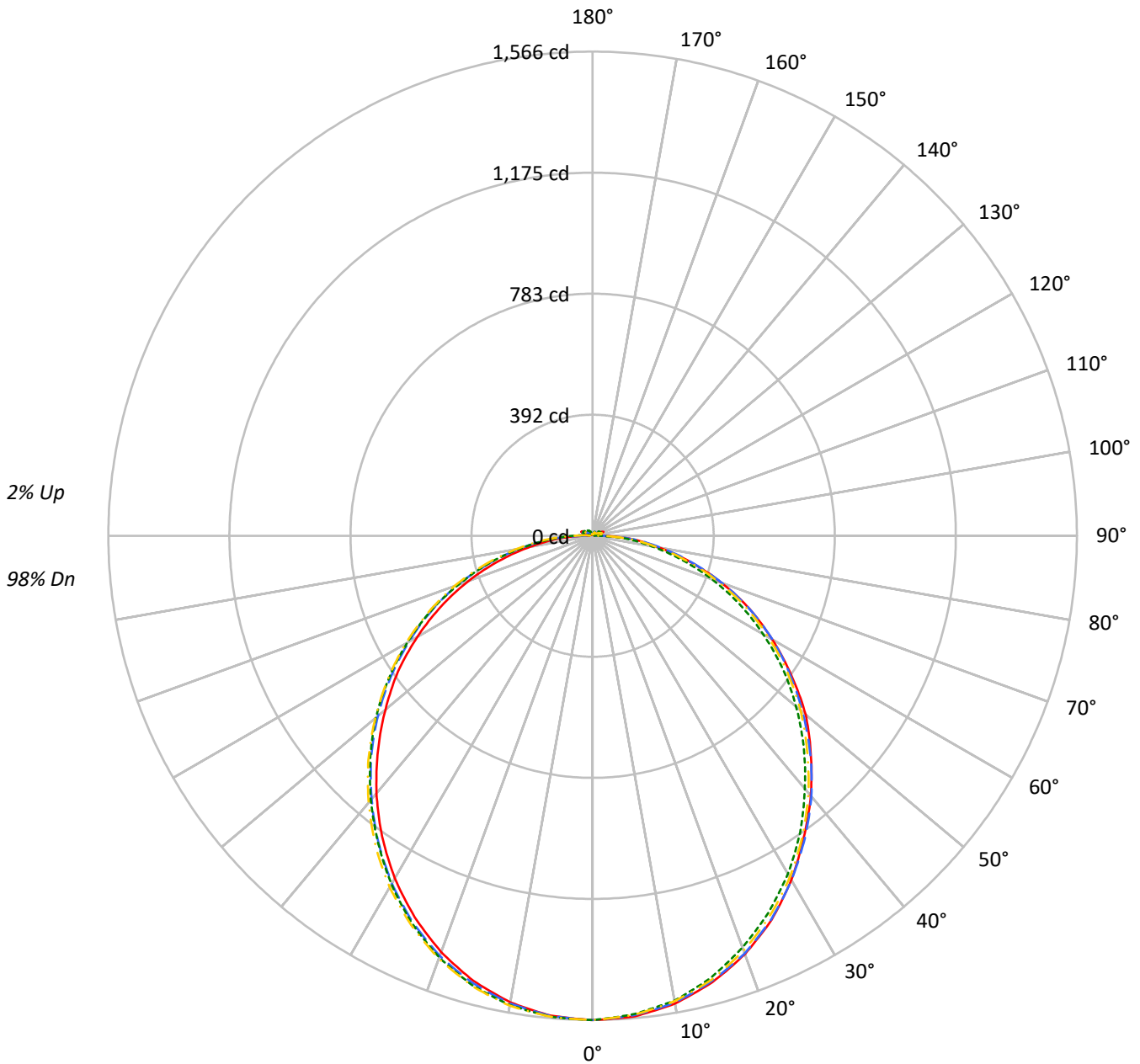
Lumens per Lamp: N/A
Luminaire Lumens: 4571.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35
Luminous Opening: Rectangular (W 1.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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: P855746

CATALOG NUMBER: 24SFS-L3C4-NUV-MED-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P855746

CATALOG NUMBER: 24SFS-L3C4-NUV-MED-5000K

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 | | | |
| 1 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | 80 | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 78 | 73 | 79 | 75 | 71 | 76 | 72 | 69 | 67 | | | |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 56 | | | |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 57 | 52 | 62 | 56 | 51 | 60 | 54 | 50 | 48 | | | |
| 5 | 75 | 62 | 53 | 46 | 72 | 60 | 52 | 45 | 58 | 50 | 45 | 56 | 49 | 44 | 54 | 48 | 43 | 41 | | | |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 36 | | | |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 39 | 34 | 44 | 38 | 34 | 32 | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 28 | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 25 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 2270 | 2270 | 2270 | 2270 |
| 5° | 2269 | 2258 | 2266 | 2271 |
| 10° | 2260 | 2246 | 2255 | 2267 |
| 15° | 2243 | 2219 | 2235 | 2257 |
| 20° | 2220 | 2185 | 2209 | 2237 |
| 25° | 2190 | 2150 | 2176 | 2211 |
| 30° | 2150 | 2113 | 2140 | 2177 |
| 35° | 2106 | 2070 | 2099 | 2141 |
| 40° | 2076 | 2019 | 2056 | 2110 |
| 45° | 2045 | 1978 | 2011 | 2083 |
| 50° | 2027 | 1935 | 1971 | 2063 |
| 55° | 1979 | 1897 | 1944 | 2033 |
| 60° | 1943 | 1845 | 1896 | 2006 |
| 65° | 1920 | 1797 | 1852 | 1984 |
| 70° | 1877 | 1737 | 1802 | 1952 |
| 75° | 1826 | 1661 | 1752 | 1951 |
| 80° | 1809 | 1599 | 1700 | 1965 |
| 85° | 2158 | 1774 | 1892 | 2332 |



TEST NUMBER: P855746

CATALOG NUMBER: 24SFS-L3C4-NUV-MED-5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.9 | 3.2 |
| 10°-20° | 421.2 | 9.2 |
| 20°-30° | 630.8 | 13.8 |
| 30°-40° | 749.5 | 16.4 |
| 40°-50° | 770.0 | 16.8 |
| 50°-60° | 700.5 | 15.3 |
| 60°-70° | 553.5 | 12.1 |
| 70°-80° | 351.0 | 7.7 |
| 80°-90° | 138.8 | 3.0 |
| 90°-100° | 16.0 | 0.3 |
| 100°-110° | 27.4 | 0.6 |
| 110°-120° | 25.5 | 0.6 |
| 120°-130° | 15.4 | 0.3 |
| 130°-140° | 10.2 | 0.2 |
| 140°-150° | 7.1 | 0.2 |
| 150°-160° | 4.2 | 0.1 |
| 160°-170° | 1.7 | 0.0 |
| 170°-180° | 0.5 | 0.0 |
| 0°-30° | 1199.9 | 26.3 |
| 0°-40° | 1949.4 | 42.6 |
| 0°-60° | 3419.9 | 74.8 |
| 0°-90° | 4463.1 | 97.6 |
| 90°-120° | 68.9 | 1.5 |
| 90°-150° | 101.6 | 2.2 |
| 90°-180° | 108.0 | 2.4 |
| 0°-180° | 4571.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1566 | 1566 | 1566 | 1566 | 1566 | |
| 5° | 1560 | 1553 | 1558 | 1562 | 1560 | 148 |
| 15° | 1495 | 1479 | 1490 | 1505 | 1495 | 422 |
| 25° | 1370 | 1345 | 1361 | 1383 | 1370 | 631 |
| 35° | 1191 | 1170 | 1187 | 1210 | 1191 | 746 |
| 45° | 998 | 965 | 982 | 1017 | 998 | 771 |
| 55° | 784 | 751 | 770 | 805 | 784 | 702 |
| 65° | 560 | 524 | 540 | 579 | 560 | 553 |
| 75° | 326 | 297 | 313 | 348 | 326 | 346 |
| 85° | 130 | 107 | 114 | 140 | 130 | 122 |
| 90° | 22 | 8 | 14 | 57 | 22 | 25 |
| 95° | 6 | 3 | 11 | 20 | 6 | 8 |
| 105° | 26 | 31 | 34 | 31 | 26 | 25 |
| 115° | 29 | 26 | 35 | 33 | 29 | 29 |
| 125° | 10 | 24 | 9 | 29 | 10 | 10 |
| 135° | 4 | 19 | 4 | 27 | 4 | 3 |
| 145° | 4 | 15 | 4 | 19 | 4 | 2 |
| 155° | 4 | 13 | 4 | 15 | 4 | 2 |
| 165° | 4 | 6 | 4 | 7 | 4 | 1 |
| 175° | 4 | 5 | 5 | 6 | 4 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P855746

CATALOG NUMBER: 24SFS-L3C4-NUV-MED-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 |
| 5° | 1560.2 | 1552.6 | 1556.5 | 1556.5 | 1552.6 | 1548.7 | 1555.1 | 1556.3 | 1557.8 | 1553.6 | 1558.5 |
| 10° | 1536.4 | 1529.3 | 1532.9 | 1531.0 | 1526.3 | 1521.2 | 1528.5 | 1531.5 | 1532.5 | 1529.8 | 1536.1 |
| 15° | 1495.1 | 1489.9 | 1490.7 | 1489.2 | 1479.4 | 1476.9 | 1486.5 | 1490.7 | 1490.2 | 1491.2 | 1497.8 |
| 20° | 1439.8 | 1434.6 | 1437.6 | 1431.9 | 1416.9 | 1421.1 | 1427.8 | 1431.7 | 1432.4 | 1436.8 | 1445.7 |
| 25° | 1370.2 | 1365.8 | 1367.8 | 1362.1 | 1344.7 | 1349.3 | 1356.2 | 1363.1 | 1361.1 | 1368.8 | 1377.9 |
| 30° | 1285.2 | 1285.0 | 1286.2 | 1282.3 | 1262.8 | 1265.8 | 1275.4 | 1280.8 | 1279.3 | 1289.9 | 1298.2 |
| 35° | 1190.6 | 1196.7 | 1195.7 | 1188.9 | 1170.2 | 1173.6 | 1183.7 | 1187.6 | 1186.9 | 1199.7 | 1208.5 |
| 40° | 1097.7 | 1098.2 | 1100.6 | 1088.6 | 1067.4 | 1077.0 | 1085.4 | 1086.6 | 1087.3 | 1101.1 | 1111.7 |
| 45° | 998.1 | 993.7 | 995.4 | 986.6 | 965.4 | 973.1 | 980.9 | 984.9 | 981.7 | 997.4 | 1012.6 |
| 50° | 899.1 | 886.8 | 885.6 | 879.7 | 858.5 | 865.9 | 877.4 | 878.4 | 874.3 | 893.2 | 906.0 |
| 55° | 783.6 | 782.6 | 777.4 | 773.2 | 750.9 | 759.0 | 768.1 | 769.1 | 769.5 | 781.6 | 796.8 |
| 60° | 670.5 | 670.0 | 671.2 | 660.9 | 636.8 | 647.9 | 656.7 | 657.2 | 654.3 | 674.2 | 685.5 |
| 65° | 560.1 | 554.7 | 558.9 | 549.8 | 524.3 | 534.3 | 546.9 | 545.6 | 540.2 | 558.2 | 575.6 |
| 70° | 443.1 | 442.4 | 443.6 | 432.6 | 410.0 | 419.1 | 431.1 | 430.6 | 425.5 | 446.6 | 464.3 |
| 75° | 326.2 | 333.0 | 330.6 | 319.5 | 296.7 | 308.7 | 316.8 | 315.3 | 312.9 | 331.3 | 345.6 |
| 80° | 216.8 | 224.2 | 225.1 | 210.9 | 191.7 | 201.8 | 209.2 | 208.9 | 203.8 | 222.7 | 238.7 |
| 85° | 129.8 | 132.7 | 132.7 | 121.9 | 106.7 | 114.8 | 123.1 | 119.2 | 113.8 | 132.0 | 141.1 |
| 90° | 22.4 | 9.3 | 9.1 | 8.6 | 7.9 | 10.1 | 12.8 | 14.0 | 14.5 | 18.7 | 24.1 |
| 95° | 5.7 | 6.6 | 6.6 | 11.3 | 2.9 | 9.6 | 7.6 | 10.3 | 11.1 | 10.6 | 8.8 |
| 100° | 5.2 | 5.9 | 22.4 | 24.1 | 22.6 | 24.1 | 26.1 | 10.6 | 10.3 | 10.1 | 17.9 |
| 105° | 26.1 | 29.5 | 30.7 | 24.6 | 30.7 | 26.3 | 31.5 | 32.7 | 34.2 | 32.2 | 33.7 |
| 110° | 37.4 | 30.0 | 24.1 | 21.6 | 28.5 | 22.9 | 26.3 | 31.5 | 38.1 | 35.4 | 32.9 |
| 115° | 28.8 | 23.6 | 15.2 | 19.2 | 26.3 | 21.6 | 18.7 | 28.3 | 34.9 | 33.2 | 24.6 |
| 120° | 20.6 | 18.2 | 10.8 | 18.7 | 24.8 | 20.4 | 12.8 | 19.9 | 21.9 | 21.9 | 18.7 |
| 125° | 9.8 | 11.8 | 11.1 | 18.2 | 23.6 | 18.4 | 12.0 | 9.8 | 8.6 | 10.8 | 18.4 |
| 130° | 3.7 | 11.1 | 11.6 | 16.0 | 20.6 | 16.2 | 11.1 | 9.1 | 3.7 | 10.3 | 17.0 |
| 135° | 4.2 | 10.6 | 10.1 | 14.5 | 18.7 | 12.5 | 10.1 | 8.4 | 3.7 | 9.6 | 15.0 |
| 140° | 3.7 | 9.8 | 13.8 | 12.0 | 17.2 | 11.6 | 11.8 | 7.9 | 3.7 | 9.1 | 12.8 |
| 145° | 3.9 | 8.8 | 14.5 | 13.0 | 14.7 | 14.3 | 12.0 | 7.4 | 3.7 | 8.4 | 11.6 |
| 150° | 3.7 | 7.6 | 12.5 | 13.3 | 15.2 | 14.3 | 11.1 | 7.1 | 3.9 | 7.9 | 10.3 |
| 155° | 3.9 | 7.1 | 10.3 | 11.8 | 13.3 | 10.6 | 8.4 | 6.1 | 3.9 | 7.1 | 9.3 |
| 160° | 4.2 | 5.9 | 7.4 | 8.6 | 7.9 | 8.1 | 6.9 | 5.2 | 3.7 | 6.1 | 8.1 |
| 165° | 3.9 | 4.7 | 5.4 | 4.7 | 6.4 | 4.9 | 4.9 | 4.2 | 3.9 | 5.2 | 6.9 |
| 170° | 3.9 | 4.2 | 4.4 | 4.7 | 6.4 | 5.7 | 4.4 | 3.9 | 3.9 | 4.7 | 5.7 |
| 175° | 3.7 | 3.9 | 4.4 | 4.9 | 4.9 | 4.7 | 4.4 | 4.7 | 4.7 | 4.7 | 4.9 |
| 180° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |



TEST NUMBER: P855746

CATALOG NUMBER: 24SFS-L3C4-NUV-MED-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|--------|--------|--------|--------|--------|
| 0° | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 |
| 5° | 1560.7 | 1561.5 | 1556.1 | 1561.7 | 1560.7 | 1560.2 |
| 10° | 1539.6 | 1541.1 | 1537.1 | 1543.5 | 1539.6 | 1536.4 |
| 15° | 1502.2 | 1504.9 | 1500.3 | 1507.4 | 1502.7 | 1495.1 |
| 20° | 1449.1 | 1451.1 | 1450.6 | 1455.3 | 1449.6 | 1439.8 |
| 25° | 1382.3 | 1383.0 | 1385.5 | 1388.9 | 1383.0 | 1370.2 |
| 30° | 1304.1 | 1301.4 | 1307.8 | 1312.5 | 1302.4 | 1285.2 |
| 35° | 1214.2 | 1210.5 | 1216.6 | 1224.0 | 1214.7 | 1190.6 |
| 40° | 1115.6 | 1115.4 | 1125.7 | 1126.7 | 1116.8 | 1097.7 |
| 45° | 1011.9 | 1016.6 | 1022.2 | 1025.4 | 1011.9 | 998.1 |
| 50° | 906.0 | 915.3 | 915.1 | 916.8 | 904.5 | 899.1 |
| 55° | 800.0 | 804.7 | 807.6 | 807.4 | 800.0 | 783.6 |
| 60° | 688.9 | 692.4 | 699.5 | 698.0 | 689.7 | 670.5 |
| 65° | 576.4 | 578.8 | 583.2 | 585.9 | 574.1 | 560.1 |
| 70° | 460.6 | 460.8 | 469.9 | 475.1 | 458.4 | 443.1 |
| 75° | 348.8 | 348.5 | 357.1 | 360.8 | 348.0 | 326.2 |
| 80° | 237.2 | 235.5 | 249.5 | 249.5 | 234.5 | 216.8 |
| 85° | 138.6 | 140.3 | 151.2 | 154.1 | 143.0 | 129.8 |
| 90° | 39.6 | 57.0 | 60.0 | 55.3 | 38.3 | 22.4 |
| 95° | 12.5 | 19.9 | 12.8 | 7.9 | 6.9 | 5.7 |
| 100° | 14.0 | 7.9 | 17.5 | 8.6 | 5.4 | 5.2 |
| 105° | 27.3 | 31.2 | 28.3 | 27.5 | 27.3 | 26.1 |
| 110° | 29.7 | 32.9 | 25.8 | 29.2 | 32.0 | 37.4 |
| 115° | 28.8 | 32.7 | 26.5 | 26.5 | 27.3 | 28.8 |
| 120° | 27.5 | 29.7 | 25.3 | 19.2 | 22.9 | 20.6 |
| 125° | 26.5 | 29.0 | 24.1 | 18.9 | 11.8 | 9.8 |
| 130° | 25.3 | 28.0 | 22.9 | 17.7 | 9.1 | 3.7 |
| 135° | 21.6 | 27.0 | 19.2 | 14.7 | 9.1 | 4.2 |
| 140° | 17.2 | 21.4 | 17.5 | 13.0 | 8.4 | 3.7 |
| 145° | 15.5 | 19.2 | 14.7 | 13.3 | 7.9 | 3.9 |
| 150° | 14.0 | 16.5 | 13.0 | 11.8 | 7.1 | 3.7 |
| 155° | 10.8 | 15.0 | 11.1 | 9.6 | 6.6 | 3.9 |
| 160° | 8.4 | 8.4 | 8.6 | 8.1 | 5.9 | 4.2 |
| 165° | 7.1 | 7.4 | 7.1 | 6.6 | 5.2 | 3.9 |
| 170° | 6.6 | 7.4 | 6.4 | 5.4 | 4.4 | 3.9 |
| 175° | 4.9 | 6.4 | 4.9 | 4.2 | 4.2 | 3.7 |
| 180° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)