

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: P855714

Luminaire Tested: **22SFS-L3C4-NUV-HIGH-5000K**

Issue Date: 7/17/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P855714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218006-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SFS-L3C4-NUV-HIGH-5000K  
Description: 2x2 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 5000K CCT Settings  
Light Source: -  
Ballast/Driver: -

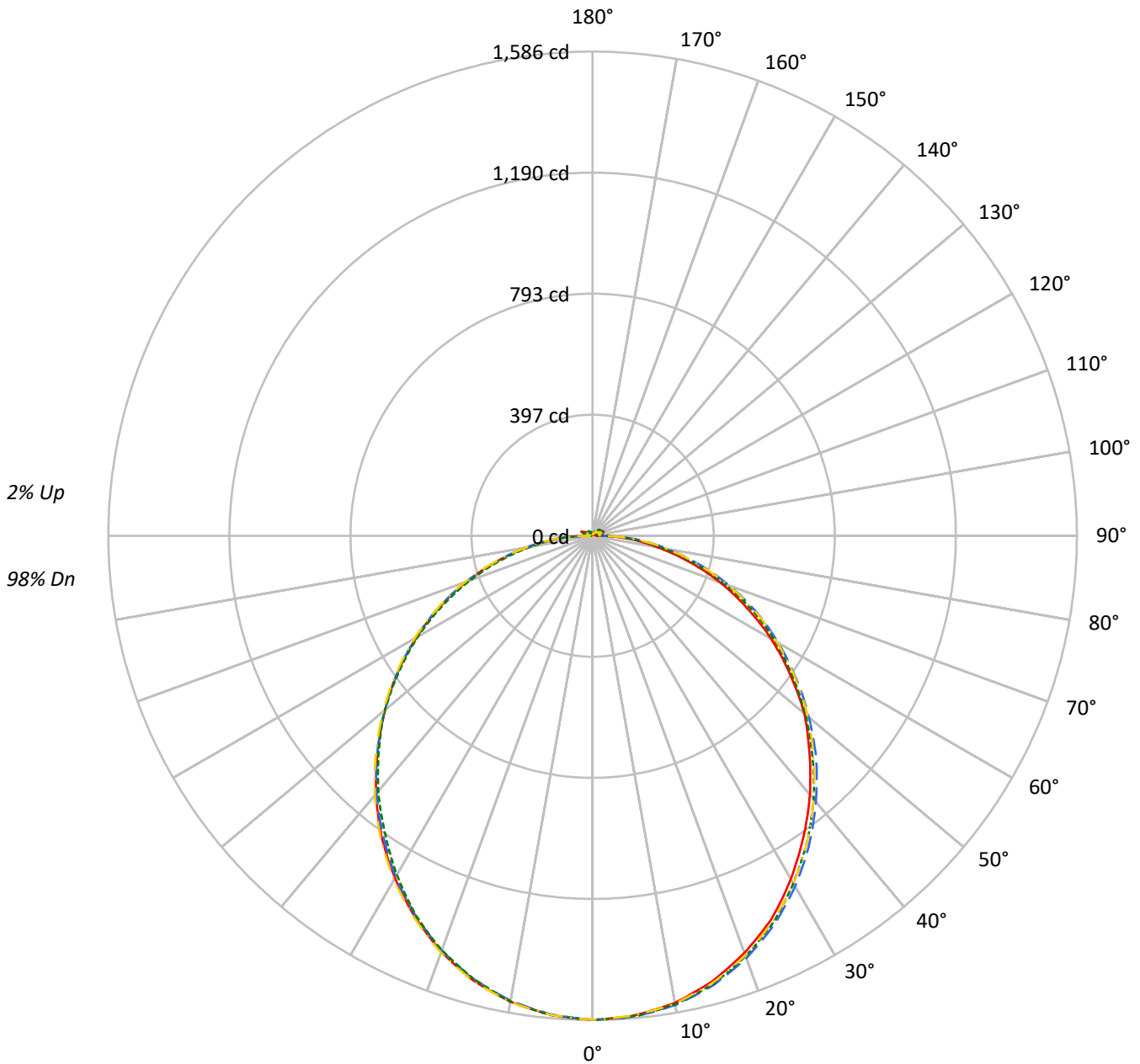
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4626.0 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35  
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P855714

CATALOG NUMBER: 22SFS-L3C4-NUV-HIGH-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P855714

CATALOG NUMBER: 22SFS-L3C4-NUV-HIGH-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  | 56  | 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°  | 2379 | 2379 | 2379 | 2379 |
| 5°  | 2376 | 2380 | 2373 | 2374 |
| 10° | 2367 | 2375 | 2362 | 2360 |
| 15° | 2348 | 2363 | 2343 | 2336 |
| 20° | 2321 | 2341 | 2315 | 2307 |
| 25° | 2294 | 2315 | 2281 | 2270 |
| 30° | 2249 | 2278 | 2244 | 2222 |
| 35° | 2206 | 2242 | 2207 | 2174 |
| 40° | 2168 | 2206 | 2162 | 2139 |
| 45° | 2130 | 2160 | 2111 | 2099 |
| 50° | 2112 | 2124 | 2071 | 2073 |
| 55° | 2062 | 2087 | 2041 | 2021 |
| 60° | 2026 | 2068 | 1996 | 1983 |
| 65° | 1972 | 2046 | 1965 | 1926 |
| 70° | 1939 | 2013 | 1933 | 1869 |
| 75° | 1882 | 1988 | 1876 | 1804 |
| 80° | 1851 | 2014 | 1840 | 1753 |
| 85° | 2113 | 2283 | 2099 | 1970 |



TEST NUMBER: P855714

CATALOG NUMBER: 22SFS-L3C4-NUV-HIGH-5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.7  | 3.2       |
| 10°-20°   | 426.3  | 9.2       |
| 20°-30°   | 638.6  | 13.8      |
| 30°-40°   | 758.7  | 16.4      |
| 40°-50°   | 779.1  | 16.8      |
| 50°-60°   | 708.7  | 15.3      |
| 60°-70°   | 560.4  | 12.1      |
| 70°-80°   | 355.8  | 7.7       |
| 80°-90°   | 139.5  | 3.0       |
| 90°-100°  | 15.3   | 0.3       |
| 100°-110° | 28.0   | 0.6       |
| 110°-120° | 26.1   | 0.6       |
| 120°-130° | 15.7   | 0.3       |
| 130°-140° | 10.4   | 0.2       |
| 140°-150° | 7.2    | 0.2       |
| 150°-160° | 4.2    | 0.1       |
| 160°-170° | 1.7    | 0.0       |
| 170°-180° | 0.5    | 0.0       |
| 0°-30°    | 1214.6 | 26.3      |
| 0°-40°    | 1973.4 | 42.7      |
| 0°-60°    | 3461.1 | 74.8      |
| 0°-90°    | 4516.8 | 97.6      |
| 90°-120°  | 69.4   | 1.5       |
| 90°-150°  | 102.8  | 2.2       |
| 90°-180°  | 109.0  | 2.4       |
| 0°-180°   | 4626.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1586 | 1586 | 1586 | 1586 | 1586 |      |
| 5°   | 1577 | 1580 | 1575 | 1576 | 1577 | 150  |
| 15°  | 1511 | 1521 | 1508 | 1503 | 1511 | 426  |
| 25°  | 1386 | 1398 | 1378 | 1371 | 1386 | 637  |
| 35°  | 1204 | 1224 | 1205 | 1186 | 1204 | 754  |
| 45°  | 1004 | 1018 | 995  | 989  | 1004 | 776  |
| 55°  | 788  | 798  | 780  | 772  | 788  | 706  |
| 65°  | 556  | 576  | 554  | 542  | 556  | 552  |
| 75°  | 325  | 343  | 324  | 311  | 325  | 345  |
| 85°  | 123  | 133  | 122  | 114  | 123  | 118  |
| 90°  | 15   | 41   | 12   | 9    | 15   | 23   |
| 95°  | 12   | 14   | 6    | 4    | 12   | 10   |
| 105° | 34   | 33   | 31   | 31   | 34   | 31   |
| 115° | 36   | 33   | 29   | 26   | 36   | 33   |
| 125° | 10   | 30   | 9    | 23   | 10   | 11   |
| 135° | 4    | 26   | 4    | 19   | 4    | 3    |
| 145° | 4    | 18   | 4    | 16   | 4    | 3    |
| 155° | 4    | 15   | 4    | 14   | 4    | 2    |
| 165° | 4    | 7    | 4    | 6    | 4    | 1    |
| 175° | 5    | 6    | 4    | 6    | 5    | 0    |
| 180° | 4    | 4    | 4    | 4    | 4    |      |



TEST NUMBER: P855714

CATALOG NUMBER: 22SFS-L3C4-NUV-HIGH-5000K

**CANDELA DISTRIBUTION (FULL):**

|      | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°   | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 |
| 5°   | 1577.2 | 1572.2 | 1580.9 | 1584.6 | 1579.9 | 1573.7 | 1576.9 | 1579.7 | 1575.4 | 1568.4 | 1573.7 |
| 10°  | 1553.7 | 1550.2 | 1560.7 | 1563.9 | 1558.7 | 1552.2 | 1555.7 | 1556.5 | 1550.2 | 1543.5 | 1546.7 |
| 15°  | 1511.3 | 1511.8 | 1524.8 | 1528.0 | 1520.8 | 1514.1 | 1516.8 | 1516.1 | 1508.3 | 1501.6 | 1503.1 |
| 20°  | 1453.7 | 1459.0 | 1472.2 | 1475.9 | 1465.7 | 1462.2 | 1462.2 | 1460.0 | 1449.8 | 1444.0 | 1445.5 |
| 25°  | 1385.7 | 1391.2 | 1406.4 | 1409.1 | 1398.4 | 1394.7 | 1393.9 | 1392.2 | 1377.7 | 1373.0 | 1373.0 |
| 30°  | 1298.2 | 1311.6 | 1326.1 | 1331.6 | 1314.6 | 1314.1 | 1315.6 | 1309.4 | 1294.9 | 1292.2 | 1290.2 |
| 35°  | 1204.2 | 1221.6 | 1236.3 | 1241.1 | 1224.1 | 1226.1 | 1224.6 | 1216.9 | 1204.7 | 1199.7 | 1196.7 |
| 40°  | 1107.0 | 1125.2 | 1137.1 | 1138.6 | 1126.1 | 1127.6 | 1126.4 | 1118.9 | 1103.5 | 1102.7 | 1101.0 |
| 45°  | 1003.7 | 1019.9 | 1035.6 | 1035.6 | 1017.7 | 1022.7 | 1022.7 | 1014.2 | 994.8  | 993.8  | 996.0  |
| 50°  | 904.8  | 910.5  | 924.7  | 926.4  | 909.7  | 915.0  | 919.5  | 907.8  | 887.1  | 889.1  | 888.8  |
| 55°  | 788.3  | 804.0  | 813.0  | 821.0  | 797.6  | 806.8  | 809.5  | 798.1  | 780.1  | 776.6  | 778.6  |
| 60°  | 674.9  | 690.1  | 702.1  | 708.5  | 689.1  | 694.3  | 696.8  | 689.1  | 665.2  | 665.4  | 669.7  |
| 65°  | 555.5  | 572.2  | 592.1  | 592.4  | 576.2  | 582.4  | 589.9  | 574.2  | 553.5  | 556.5  | 555.7  |
| 70°  | 442.0  | 457.7  | 475.7  | 476.9  | 458.7  | 469.0  | 471.0  | 457.7  | 440.5  | 439.8  | 439.8  |
| 75°  | 324.6  | 346.5  | 359.8  | 360.5  | 342.8  | 353.3  | 354.5  | 347.8  | 323.6  | 325.9  | 328.3  |
| 80°  | 214.2  | 232.6  | 247.1  | 246.8  | 233.1  | 242.6  | 246.8  | 233.1  | 212.9  | 221.1  | 219.6  |
| 85°  | 122.7  | 139.6  | 151.3  | 149.6  | 132.6  | 143.1  | 147.6  | 135.9  | 121.9  | 126.9  | 126.4  |
| 90°  | 15.2   | 23.2   | 41.1   | 56.8   | 41.1   | 46.9   | 35.7   | 18.9   | 11.7   | 9.2    | 9.5    |
| 95°  | 11.7   | 11.2   | 10.0   | 13.2   | 14.5   | 11.5   | 7.2    | 6.2    | 5.5    | 6.2    | 6.2    |
| 100° | 10.2   | 10.2   | 16.7   | 13.5   | 9.7    | 18.2   | 9.7    | 5.2    | 4.5    | 5.7    | 25.4   |
| 105° | 34.2   | 32.4   | 33.7   | 27.7   | 32.7   | 27.9   | 28.7   | 28.7   | 30.7   | 31.7   | 31.2   |
| 110° | 38.4   | 35.4   | 33.7   | 30.4   | 34.7   | 26.9   | 28.9   | 32.7   | 39.4   | 31.2   | 24.4   |
| 115° | 36.4   | 33.2   | 25.7   | 29.9   | 33.4   | 28.4   | 26.7   | 28.2   | 28.9   | 24.2   | 15.0   |
| 120° | 23.4   | 23.2   | 19.4   | 27.4   | 31.7   | 26.9   | 19.7   | 22.7   | 21.2   | 18.7   | 11.0   |
| 125° | 10.0   | 12.2   | 18.7   | 26.7   | 30.4   | 25.2   | 19.7   | 11.2   | 9.0    | 11.0   | 10.7   |
| 130° | 4.2    | 11.2   | 18.4   | 25.9   | 29.7   | 24.2   | 18.7   | 9.7    | 3.5    | 10.2   | 11.2   |
| 135° | 4.2    | 10.2   | 16.2   | 23.9   | 26.4   | 20.9   | 15.7   | 9.2    | 3.5    | 9.7    | 10.2   |
| 140° | 4.2    | 9.7    | 13.2   | 17.7   | 21.2   | 17.5   | 13.7   | 8.5    | 3.7    | 9.0    | 13.2   |
| 145° | 4.0    | 9.2    | 12.2   | 15.2   | 18.4   | 15.5   | 14.2   | 8.2    | 4.0    | 8.2    | 14.5   |
| 150° | 4.0    | 8.7    | 11.0   | 14.7   | 16.0   | 13.7   | 12.5   | 7.5    | 3.7    | 7.5    | 12.5   |
| 155° | 4.2    | 7.5    | 10.0   | 12.5   | 15.0   | 12.2   | 10.0   | 7.0    | 4.0    | 6.7    | 10.0   |
| 160° | 4.2    | 6.5    | 8.0    | 9.7    | 7.7    | 9.5    | 7.5    | 5.5    | 3.7    | 5.5    | 8.0    |
| 165° | 4.2    | 5.2    | 6.0    | 6.2    | 6.7    | 5.5    | 5.5    | 4.7    | 3.7    | 4.7    | 6.2    |
| 170° | 4.2    | 4.7    | 5.2    | 5.5    | 7.2    | 5.0    | 4.7    | 4.2    | 3.5    | 4.2    | 5.0    |
| 175° | 4.7    | 5.0    | 5.2    | 5.2    | 5.7    | 5.2    | 4.5    | 4.0    | 4.0    | 3.7    | 4.5    |
| 180° | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |



TEST NUMBER: P855714

CATALOG NUMBER: 22SFS-L3C4-NUV-HIGH-5000K

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|------|--------|--------|--------|--------|--------|--------|
| 0°   | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 | 1585.6 |
| 5°   | 1576.7 | 1576.2 | 1569.2 | 1575.2 | 1579.4 | 1577.2 |
| 10°  | 1548.7 | 1548.7 | 1543.3 | 1550.5 | 1554.2 | 1553.7 |
| 15°  | 1504.6 | 1503.4 | 1500.6 | 1510.6 | 1513.6 | 1511.3 |
| 20°  | 1444.5 | 1444.8 | 1440.5 | 1453.0 | 1458.7 | 1453.7 |
| 25°  | 1371.5 | 1371.0 | 1373.5 | 1381.7 | 1388.9 | 1385.7 |
| 30°  | 1289.2 | 1282.5 | 1291.4 | 1301.7 | 1306.2 | 1298.2 |
| 35°  | 1197.2 | 1186.5 | 1198.9 | 1209.7 | 1212.4 | 1204.2 |
| 40°  | 1091.0 | 1092.0 | 1098.7 | 1109.7 | 1113.7 | 1107.0 |
| 45°  | 986.3  | 989.3  | 995.8  | 1003.0 | 1006.0 | 1003.7 |
| 50°  | 883.3  | 888.1  | 887.6  | 895.5  | 897.3  | 904.8  |
| 55°  | 773.1  | 772.4  | 778.4  | 785.1  | 791.1  | 788.3  |
| 60°  | 660.2  | 660.9  | 663.7  | 673.9  | 676.9  | 674.9  |
| 65°  | 545.7  | 542.3  | 549.7  | 559.2  | 560.7  | 555.5  |
| 70°  | 431.8  | 426.1  | 434.3  | 446.3  | 441.8  | 442.0  |
| 75°  | 316.1  | 311.1  | 320.6  | 330.3  | 326.1  | 324.6  |
| 80°  | 209.9  | 202.9  | 211.9  | 220.1  | 216.4  | 214.2  |
| 85°  | 119.7  | 114.4  | 122.9  | 126.9  | 129.6  | 122.7  |
| 90°  | 8.5    | 8.7    | 10.2   | 13.0   | 14.5   | 15.2   |
| 95°  | 12.5   | 4.5    | 9.5    | 8.5    | 11.2   | 11.7   |
| 100° | 25.7   | 20.4   | 23.9   | 22.9   | 11.0   | 10.2   |
| 105° | 24.9   | 30.9   | 26.7   | 32.4   | 33.4   | 34.2   |
| 110° | 21.2   | 27.7   | 22.7   | 27.9   | 32.2   | 38.4   |
| 115° | 19.2   | 25.9   | 21.4   | 19.7   | 29.4   | 36.4   |
| 120° | 19.2   | 25.2   | 19.4   | 13.2   | 20.2   | 23.4   |
| 125° | 18.2   | 23.2   | 18.2   | 12.2   | 10.0   | 10.0   |
| 130° | 16.2   | 21.9   | 16.2   | 11.2   | 8.5    | 4.2    |
| 135° | 14.0   | 18.9   | 12.7   | 10.0   | 8.2    | 4.2    |
| 140° | 11.7   | 18.7   | 11.2   | 11.2   | 7.7    | 4.2    |
| 145° | 14.0   | 15.7   | 14.0   | 11.7   | 7.2    | 4.0    |
| 150° | 13.7   | 15.5   | 13.7   | 11.0   | 6.7    | 4.0    |
| 155° | 10.7   | 13.5   | 9.2    | 8.5    | 6.2    | 4.2    |
| 160° | 8.2    | 8.2    | 7.7    | 7.7    | 5.5    | 4.2    |
| 165° | 6.7    | 6.5    | 6.7    | 6.5    | 4.7    | 4.2    |
| 170° | 6.0    | 7.0    | 6.2    | 5.0    | 4.7    | 4.2    |
| 175° | 4.2    | 5.7    | 5.0    | 5.0    | 4.7    | 4.7    |
| 180° | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)