

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: P855699

Luminaire Tested: **18SFS-L3C4-UNV-HIGH-3000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (BL231218005-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 18SFS-L3C4-UNV-HIGH-3000K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
HIGH Lumen and 3000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

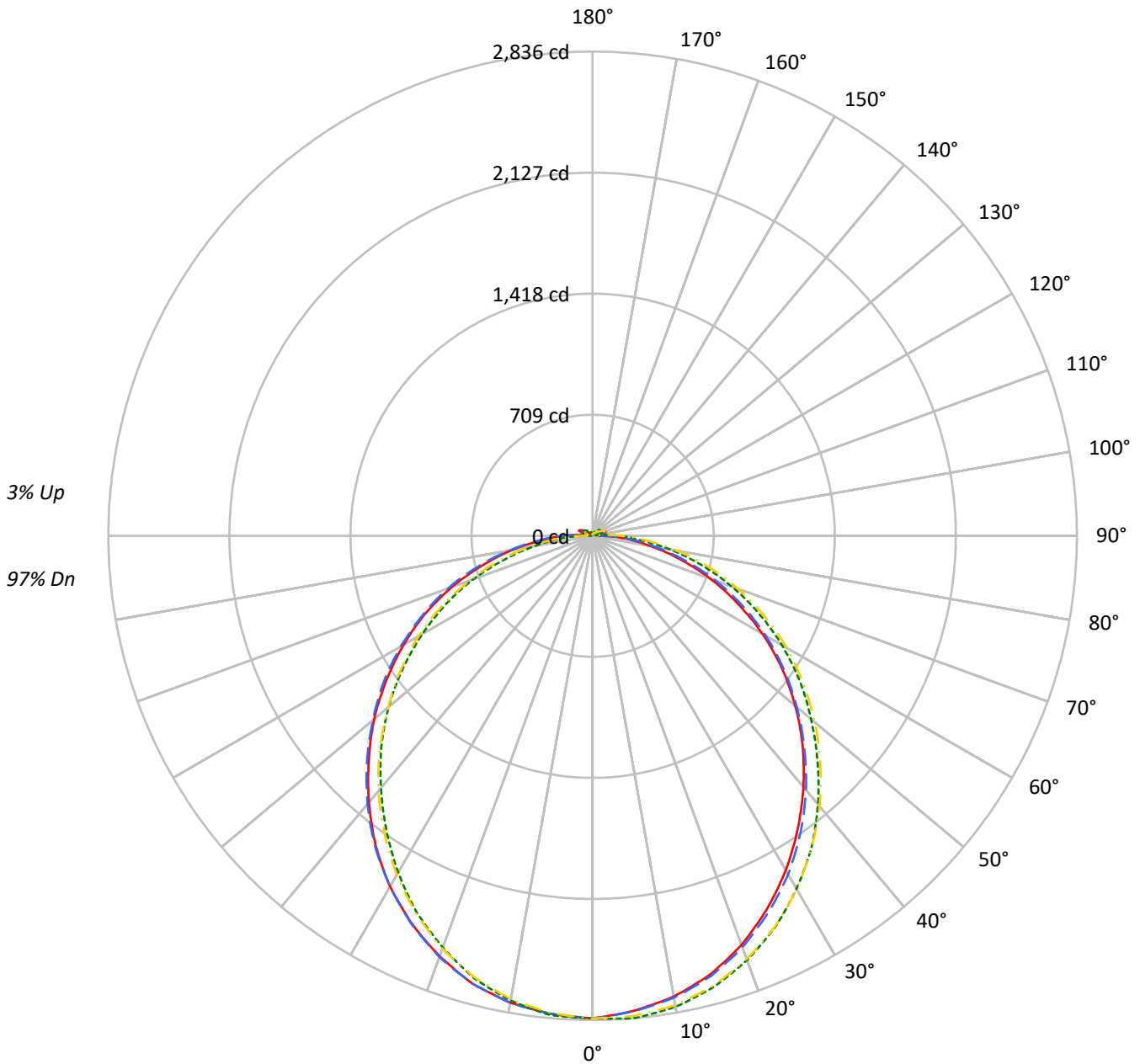
Lumens per Lamp: N/A
Luminaire Lumens: 8399.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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: P855699

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P855699

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3000K

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 97 | | | | | | | | | | | | | | | | | |
| 1 | 107 | 102 | 98 | 93 | 104 | 100 | 95 | 92 | 95 | 91 | 88 | 90 | 88 | 85 | 86 | 84 | 82 | 82 | 82 | 80 | | | | | | | | | | | | | | | | | |
| 2 | 97 | 89 | 82 | 76 | 94 | 86 | 80 | 74 | 82 | 77 | 72 | 79 | 74 | 70 | 75 | 71 | 68 | 68 | 68 | 66 | | | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 69 | 63 | 86 | 76 | 68 | 62 | 72 | 66 | 60 | 69 | 64 | 59 | 66 | 61 | 57 | 57 | 57 | 55 | | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 60 | 53 | 78 | 67 | 59 | 52 | 64 | 57 | 51 | 62 | 55 | 50 | 59 | 54 | 49 | 49 | 49 | 47 | | | | | | | | | | | | | | | | | |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 55 | 49 | 43 | 53 | 47 | 43 | 43 | 43 | 40 | | | | | | | | | | | | | | | | | |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 39 | 52 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 38 | 38 | 35 | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 33 | 33 | 31 | | | | | | | | | | | | | | | | | |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 40 | 34 | 30 | 30 | 30 | 28 | | | | | | | | | | | | | | | | | |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 38 | 32 | 27 | 37 | 31 | 27 | 27 | 27 | 25 | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 24 | 24 | 23 | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 4241 | 4241 | 4241 | 4241 |
| 5° | 4207 | 4272 | 4234 | 4246 |
| 10° | 4175 | 4269 | 4232 | 4213 |
| 15° | 4133 | 4252 | 4220 | 4168 |
| 20° | 4073 | 4223 | 4184 | 4097 |
| 25° | 3997 | 4189 | 4150 | 4034 |
| 30° | 3921 | 4137 | 4110 | 3946 |
| 35° | 3838 | 4091 | 4058 | 3858 |
| 40° | 3761 | 4023 | 3992 | 3777 |
| 45° | 3690 | 3952 | 3933 | 3714 |
| 50° | 3616 | 3898 | 3899 | 3641 |
| 55° | 3542 | 3875 | 3856 | 3548 |
| 60° | 3447 | 3839 | 3833 | 3453 |
| 65° | 3324 | 3806 | 3841 | 3363 |
| 70° | 3210 | 3802 | 3839 | 3250 |
| 75° | 3062 | 3806 | 3856 | 3069 |
| 80° | 2923 | 3969 | 4121 | 2946 |
| 85° | 3283 | 4669 | 5002 | 3364 |



TEST NUMBER: P855699

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 266.8 | 3.2 |
| 10°-20° | 760.0 | 9.0 |
| 20°-30° | 1140.1 | 13.6 |
| 30°-40° | 1357.5 | 16.2 |
| 40°-50° | 1397.0 | 16.6 |
| 50°-60° | 1274.9 | 15.2 |
| 60°-70° | 1013.6 | 12.1 |
| 70°-80° | 651.7 | 7.8 |
| 80°-90° | 280.4 | 3.3 |
| 90°-100° | 58.4 | 0.7 |
| 100°-110° | 60.1 | 0.7 |
| 110°-120° | 56.6 | 0.7 |
| 120°-130° | 36.7 | 0.4 |
| 130°-140° | 21.8 | 0.3 |
| 140°-150° | 12.3 | 0.1 |
| 150°-160° | 7.2 | 0.1 |
| 160°-170° | 3.0 | 0.0 |
| 170°-180° | 0.8 | 0.0 |
| 0°-30° | 2166.9 | 25.8 |
| 0°-40° | 3524.4 | 42.0 |
| 0°-60° | 6196.3 | 73.8 |
| 0°-90° | 8142.1 | 96.9 |
| 90°-120° | 175.1 | 2.1 |
| 90°-150° | 245.9 | 2.9 |
| 90°-180° | 257.0 | 3.1 |
| 0°-180° | 8399.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2826 | 2826 | 2826 | 2826 | 2826 | |
| 5° | 2793 | 2836 | 2811 | 2819 | 2793 | 265 |
| 15° | 2660 | 2737 | 2716 | 2683 | 2660 | 750 |
| 25° | 2414 | 2530 | 2506 | 2436 | 2414 | 1113 |
| 35° | 2095 | 2233 | 2215 | 2106 | 2095 | 1312 |
| 45° | 1739 | 1862 | 1854 | 1750 | 1739 | 1342 |
| 55° | 1354 | 1481 | 1474 | 1356 | 1354 | 1210 |
| 65° | 936 | 1072 | 1082 | 947 | 936 | 929 |
| 75° | 528 | 656 | 665 | 529 | 528 | 561 |
| 85° | 191 | 271 | 290 | 195 | 191 | 186 |
| 90° | 42 | 152 | 172 | 33 | 42 | 43 |
| 95° | 37 | 40 | 44 | 7 | 37 | 32 |
| 105° | 79 | 50 | 53 | 61 | 79 | 71 |
| 115° | 56 | 66 | 79 | 52 | 56 | 54 |
| 125° | 20 | 52 | 48 | 54 | 20 | 20 |
| 135° | 14 | 45 | 19 | 40 | 14 | 11 |
| 145° | 8 | 29 | 7 | 28 | 8 | 5 |
| 155° | 8 | 24 | 8 | 22 | 8 | 4 |
| 165° | 7 | 11 | 7 | 12 | 7 | 2 |
| 175° | 8 | 8 | 7 | 10 | 8 | 1 |
| 180° | 8 | 8 | 8 | 8 | 8 | |



TEST NUMBER: P855699

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 |
| 5° | 2792.7 | 2787.9 | 2795.7 | 2795.7 | 2836.1 | 2818.9 | 2822.4 | 2823.2 | 2810.7 | 2801.3 | 2810.3 |
| 10° | 2740.2 | 2733.7 | 2746.6 | 2745.3 | 2801.7 | 2788.4 | 2791.4 | 2789.7 | 2777.2 | 2767.3 | 2777.6 |
| 15° | 2660.5 | 2654.1 | 2671.3 | 2666.5 | 2737.1 | 2725.1 | 2727.7 | 2727.2 | 2716.5 | 2705.3 | 2715.6 |
| 20° | 2550.3 | 2549.5 | 2565.0 | 2562.8 | 2644.6 | 2634.3 | 2638.6 | 2639.9 | 2620.1 | 2615.8 | 2625.2 |
| 25° | 2414.3 | 2425.1 | 2434.5 | 2431.5 | 2530.1 | 2520.6 | 2526.7 | 2526.2 | 2506.4 | 2508.1 | 2509.4 |
| 30° | 2262.8 | 2277.9 | 2289.9 | 2280.9 | 2387.6 | 2386.3 | 2390.6 | 2387.2 | 2372.1 | 2376.0 | 2373.0 |
| 35° | 2094.9 | 2111.7 | 2122.9 | 2113.4 | 2233.1 | 2229.2 | 2234.0 | 2234.0 | 2215.0 | 2214.2 | 2221.5 |
| 40° | 1920.2 | 1932.7 | 1943.8 | 1938.3 | 2053.6 | 2056.6 | 2068.7 | 2059.6 | 2037.7 | 2047.6 | 2051.0 |
| 45° | 1739.0 | 1748.4 | 1752.3 | 1746.7 | 1862.1 | 1873.3 | 1885.7 | 1876.7 | 1853.5 | 1866.4 | 1868.5 |
| 50° | 1549.1 | 1556.0 | 1561.2 | 1555.2 | 1669.7 | 1687.7 | 1698.1 | 1689.0 | 1670.1 | 1677.4 | 1679.6 |
| 55° | 1353.7 | 1352.0 | 1367.1 | 1366.6 | 1481.1 | 1490.6 | 1505.7 | 1500.1 | 1473.8 | 1482.0 | 1494.0 |
| 60° | 1148.4 | 1152.7 | 1170.4 | 1161.3 | 1279.3 | 1292.2 | 1311.5 | 1301.6 | 1277.1 | 1291.3 | 1296.0 |
| 65° | 936.2 | 954.3 | 967.6 | 954.3 | 1071.8 | 1098.9 | 1107.5 | 1105.4 | 1081.7 | 1093.3 | 1097.2 |
| 70° | 731.7 | 750.2 | 764.5 | 743.8 | 866.5 | 890.1 | 903.9 | 898.3 | 875.1 | 888.4 | 900.9 |
| 75° | 528.1 | 550.1 | 560.9 | 544.9 | 656.4 | 681.8 | 701.2 | 690.4 | 665.0 | 689.6 | 693.4 |
| 80° | 338.3 | 360.3 | 369.3 | 353.8 | 459.3 | 487.3 | 498.9 | 486.4 | 476.9 | 492.4 | 493.7 |
| 85° | 190.7 | 211.3 | 210.9 | 199.3 | 271.2 | 302.2 | 316.4 | 303.5 | 290.5 | 310.3 | 313.8 |
| 90° | 42.2 | 44.8 | 43.5 | 36.2 | 151.9 | 161.4 | 165.3 | 174.8 | 171.7 | 172.6 | 172.6 |
| 95° | 37.4 | 35.3 | 28.0 | 25.4 | 39.6 | 37.9 | 44.3 | 44.3 | 44.3 | 43.0 | 38.7 |
| 100° | 37.9 | 44.8 | 60.3 | 39.6 | 9.0 | 30.6 | 33.1 | 39.6 | 41.3 | 37.4 | 34.0 |
| 105° | 79.2 | 74.5 | 64.6 | 48.6 | 50.4 | 51.7 | 67.1 | 68.4 | 53.4 | 65.0 | 63.7 |
| 110° | 71.0 | 66.7 | 52.1 | 50.8 | 61.1 | 64.6 | 75.3 | 88.2 | 85.7 | 81.4 | 64.1 |
| 115° | 55.5 | 53.8 | 39.6 | 49.1 | 66.3 | 57.7 | 69.7 | 76.6 | 79.2 | 76.2 | 62.0 |
| 120° | 33.6 | 35.3 | 37.9 | 49.5 | 56.4 | 49.9 | 54.2 | 64.1 | 62.8 | 64.6 | 49.5 |
| 125° | 19.8 | 28.0 | 34.4 | 45.6 | 52.5 | 44.3 | 43.5 | 46.1 | 47.8 | 44.3 | 41.8 |
| 130° | 16.4 | 25.4 | 28.4 | 41.3 | 51.2 | 41.8 | 38.7 | 30.6 | 27.5 | 32.3 | 35.7 |
| 135° | 14.2 | 22.4 | 23.2 | 34.0 | 45.2 | 38.3 | 26.3 | 25.0 | 18.9 | 27.5 | 25.4 |
| 140° | 10.8 | 16.4 | 20.2 | 25.4 | 36.2 | 30.1 | 21.5 | 18.9 | 15.5 | 18.9 | 22.0 |
| 145° | 7.7 | 14.6 | 18.9 | 23.7 | 28.8 | 25.0 | 21.5 | 12.9 | 6.9 | 15.5 | 22.0 |
| 150° | 8.2 | 13.8 | 17.2 | 22.8 | 25.4 | 23.2 | 19.4 | 11.6 | 6.9 | 13.8 | 21.1 |
| 155° | 7.7 | 12.1 | 15.1 | 19.4 | 23.7 | 21.5 | 17.2 | 11.2 | 7.7 | 12.5 | 17.2 |
| 160° | 7.3 | 9.9 | 12.5 | 14.6 | 18.9 | 15.1 | 13.3 | 9.5 | 7.3 | 10.8 | 13.8 |
| 165° | 7.3 | 8.6 | 10.8 | 9.5 | 11.2 | 10.8 | 10.8 | 8.6 | 7.3 | 9.5 | 12.1 |
| 170° | 7.3 | 8.2 | 9.0 | 7.7 | 9.5 | 8.2 | 8.6 | 7.3 | 7.3 | 8.2 | 10.3 |
| 175° | 8.2 | 7.7 | 8.2 | 8.6 | 8.2 | 8.2 | 7.3 | 7.3 | 7.3 | 7.3 | 8.2 |
| 180° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |



TEST NUMBER: P855699

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|--------|--------|--------|--------|--------|
| 0° | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 | 2826.4 |
| 5° | 2815.0 | 2818.9 | 2801.3 | 2805.6 | 2804.3 | 2792.7 |
| 10° | 2776.7 | 2764.7 | 2746.6 | 2756.1 | 2751.8 | 2740.2 |
| 15° | 2711.3 | 2682.9 | 2669.6 | 2676.0 | 2673.9 | 2660.5 |
| 20° | 2620.1 | 2565.8 | 2563.2 | 2573.1 | 2568.4 | 2550.3 |
| 25° | 2507.7 | 2436.3 | 2432.4 | 2443.2 | 2442.7 | 2414.3 |
| 30° | 2369.5 | 2277.4 | 2288.2 | 2292.5 | 2293.8 | 2262.8 |
| 35° | 2211.1 | 2106.1 | 2122.0 | 2125.5 | 2123.3 | 2094.9 |
| 40° | 2040.7 | 1927.9 | 1940.4 | 1951.6 | 1940.4 | 1920.2 |
| 45° | 1857.3 | 1750.1 | 1750.6 | 1761.3 | 1754.9 | 1739.0 |
| 50° | 1669.2 | 1559.5 | 1562.0 | 1562.0 | 1562.0 | 1549.1 |
| 55° | 1477.3 | 1356.3 | 1366.2 | 1373.1 | 1367.9 | 1353.7 |
| 60° | 1286.1 | 1150.6 | 1160.0 | 1175.9 | 1162.2 | 1148.4 |
| 65° | 1086.0 | 947.0 | 948.7 | 971.9 | 961.6 | 936.2 |
| 70° | 880.2 | 740.8 | 757.1 | 764.0 | 749.8 | 731.7 |
| 75° | 673.2 | 529.4 | 555.7 | 566.9 | 544.5 | 528.1 |
| 80° | 478.6 | 340.9 | 365.4 | 373.6 | 355.5 | 338.3 |
| 85° | 295.7 | 195.4 | 209.6 | 215.6 | 204.0 | 190.7 |
| 90° | 158.8 | 33.1 | 39.6 | 44.3 | 44.3 | 42.2 |
| 95° | 36.6 | 6.9 | 31.0 | 28.4 | 35.7 | 37.4 |
| 100° | 33.1 | 50.4 | 59.8 | 61.1 | 40.5 | 37.9 |
| 105° | 46.5 | 60.7 | 46.9 | 68.4 | 71.9 | 79.2 |
| 110° | 45.6 | 55.5 | 39.6 | 59.4 | 67.1 | 71.0 |
| 115° | 40.0 | 51.7 | 44.3 | 45.6 | 51.7 | 55.5 |
| 120° | 46.5 | 58.5 | 44.3 | 36.2 | 33.1 | 33.6 |
| 125° | 46.9 | 53.8 | 38.3 | 33.6 | 24.1 | 19.8 |
| 130° | 44.8 | 46.9 | 33.6 | 28.8 | 21.1 | 16.4 |
| 135° | 38.7 | 40.5 | 26.7 | 21.5 | 18.9 | 14.2 |
| 140° | 30.1 | 30.6 | 23.7 | 21.5 | 12.1 | 10.8 |
| 145° | 24.1 | 27.5 | 24.5 | 19.8 | 11.2 | 7.7 |
| 150° | 23.7 | 27.1 | 22.4 | 17.6 | 10.8 | 8.2 |
| 155° | 23.2 | 22.4 | 18.1 | 14.2 | 9.9 | 7.7 |
| 160° | 14.2 | 13.3 | 15.1 | 12.5 | 8.6 | 7.3 |
| 165° | 11.6 | 11.6 | 12.9 | 12.5 | 8.2 | 7.3 |
| 170° | 11.2 | 9.9 | 10.3 | 8.6 | 8.2 | 7.3 |
| 175° | 7.7 | 9.5 | 8.2 | 7.7 | 8.6 | 8.2 |
| 180° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)