

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: P855709

Luminaire Tested: **18SFS-L3C4-UNV-MED-4000K**

Issue Date: 7/17/2024



**Test Information**

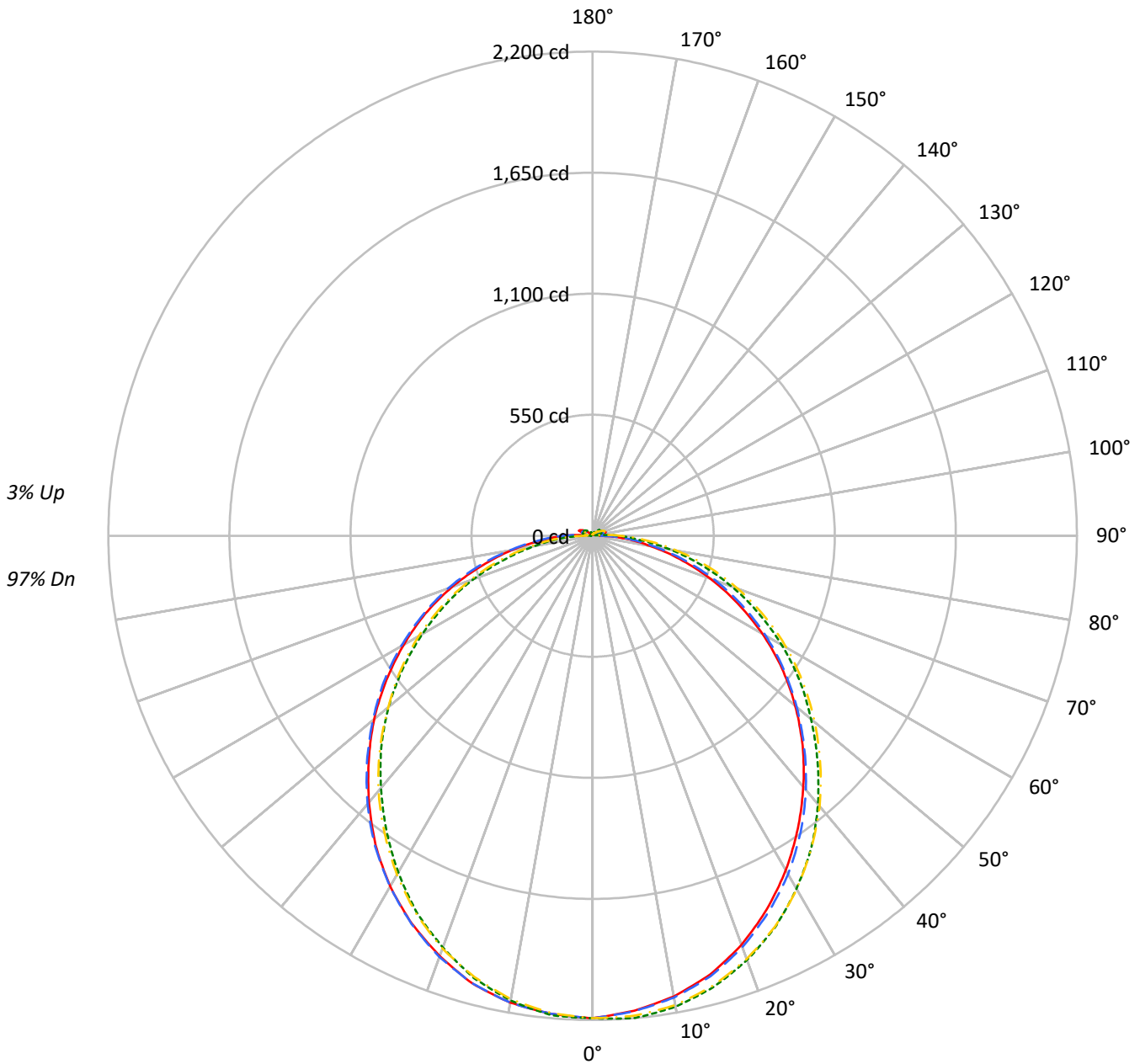
Test Method: LM-79-08  
Report Number: P855709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218005-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 18SFS-L3C4-UNV-MED-4000K  
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,  
MED Lumen and 4000K CCT Settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6514.0 lumens  
Efficiency: N/A  
Efficacy: 144.8 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): 45  
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: P855709  
CATALOG NUMBER: 18SFS-L3C4-UNV-MED-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P855709

CATALOG NUMBER: 18SFS-L3C4-UNV-MED-4000K

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

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 3289 | 3289 | 3289 | 3289 |
| 5°  | 3263 | 3313 | 3284 | 3293 |
| 10° | 3238 | 3311 | 3282 | 3267 |
| 15° | 3206 | 3298 | 3273 | 3233 |
| 20° | 3159 | 3275 | 3245 | 3178 |
| 25° | 3100 | 3249 | 3219 | 3129 |
| 30° | 3041 | 3209 | 3188 | 3061 |
| 35° | 2976 | 3173 | 3147 | 2992 |
| 40° | 2917 | 3120 | 3096 | 2929 |
| 45° | 2862 | 3065 | 3051 | 2881 |
| 50° | 2805 | 3023 | 3024 | 2824 |
| 55° | 2747 | 3005 | 2990 | 2752 |
| 60° | 2673 | 2977 | 2973 | 2678 |
| 65° | 2578 | 2951 | 2979 | 2608 |
| 70° | 2490 | 2948 | 2978 | 2521 |
| 75° | 2375 | 2952 | 2991 | 2381 |
| 80° | 2268 | 3078 | 3197 | 2285 |
| 85° | 2546 | 3621 | 3879 | 2610 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 206.9  | 3.2       |
| 10°-20°   | 589.4  | 9.0       |
| 20°-30°   | 884.2  | 13.6      |
| 30°-40°   | 1052.9 | 16.2      |
| 40°-50°   | 1083.5 | 16.6      |
| 50°-60°   | 988.8  | 15.2      |
| 60°-70°   | 786.2  | 12.1      |
| 70°-80°   | 505.4  | 7.8       |
| 80°-90°   | 217.5  | 3.3       |
| 90°-100°  | 45.3   | 0.7       |
| 100°-110° | 46.7   | 0.7       |
| 110°-120° | 43.9   | 0.7       |
| 120°-130° | 28.5   | 0.4       |
| 130°-140° | 16.9   | 0.3       |
| 140°-150° | 9.5    | 0.1       |
| 150°-160° | 5.6    | 0.1       |
| 160°-170° | 2.3    | 0.0       |
| 170°-180° | 0.6    | 0.0       |
| 0°-30°    | 1680.5 | 25.8      |
| 0°-40°    | 2733.4 | 42.0      |
| 0°-60°    | 4805.7 | 73.8      |
| 0°-90°    | 6314.8 | 96.9      |
| 90°-120°  | 135.8  | 2.1       |
| 90°-150°  | 190.7  | 2.9       |
| 90°-180°  | 199.0  | 3.1       |
| 0°-180°   | 6514.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2192 | 2192 | 2192 | 2192 | 2192 |      |
| 5°   | 2166 | 2200 | 2180 | 2186 | 2166 | 206  |
| 15°  | 2063 | 2123 | 2107 | 2081 | 2063 | 582  |
| 25°  | 1872 | 1962 | 1944 | 1890 | 1872 | 863  |
| 35°  | 1625 | 1732 | 1718 | 1633 | 1625 | 1017 |
| 45°  | 1349 | 1444 | 1438 | 1357 | 1349 | 1041 |
| 55°  | 1050 | 1149 | 1143 | 1052 | 1050 | 938  |
| 65°  | 726  | 831  | 839  | 734  | 726  | 721  |
| 75°  | 410  | 509  | 516  | 411  | 410  | 435  |
| 85°  | 148  | 210  | 225  | 152  | 148  | 144  |
| 90°  | 33   | 118  | 133  | 26   | 33   | 33   |
| 95°  | 29   | 31   | 34   | 5    | 29   | 25   |
| 105° | 61   | 39   | 41   | 47   | 61   | 55   |
| 115° | 43   | 51   | 61   | 40   | 43   | 42   |
| 125° | 15   | 41   | 37   | 42   | 15   | 16   |
| 135° | 11   | 35   | 15   | 31   | 11   | 8    |
| 145° | 6    | 22   | 5    | 21   | 6    | 4    |
| 155° | 6    | 18   | 6    | 17   | 6    | 3    |
| 165° | 6    | 9    | 6    | 9    | 6    | 2    |
| 175° | 6    | 6    | 6    | 7    | 6    | 1    |
| 180° | 6    | 6    | 6    | 6    | 6    |      |



TEST NUMBER: P855709

CATALOG NUMBER: 18SFS-L3C4-UNV-MED-4000K

**CANDELA DISTRIBUTION (FULL):**

|      | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°   | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 |
| 5°   | 2165.9 | 2162.2 | 2168.2 | 2168.2 | 2199.6 | 2186.3 | 2188.9 | 2189.6 | 2179.9 | 2172.6 | 2179.6 |
| 10°  | 2125.2 | 2120.2 | 2130.2 | 2129.2 | 2172.9 | 2162.6 | 2164.9 | 2163.6 | 2153.9 | 2146.2 | 2154.2 |
| 15°  | 2063.4 | 2058.4 | 2071.8 | 2068.1 | 2122.8 | 2113.5 | 2115.5 | 2115.2 | 2106.8 | 2098.1 | 2106.1 |
| 20°  | 1978.0 | 1977.3 | 1989.3 | 1987.6 | 2051.1 | 2043.1 | 2046.4 | 2047.4 | 2032.0 | 2028.7 | 2036.0 |
| 25°  | 1872.5 | 1880.8 | 1888.2 | 1885.8 | 1962.3 | 1954.9 | 1959.6 | 1959.3 | 1943.9 | 1945.2 | 1946.2 |
| 30°  | 1755.0 | 1766.6 | 1776.0 | 1769.0 | 1851.8 | 1850.8 | 1854.1 | 1851.4 | 1839.7 | 1842.8 | 1840.4 |
| 35°  | 1624.8 | 1637.8 | 1646.5 | 1639.1 | 1731.9 | 1728.9 | 1732.6 | 1732.6 | 1717.9 | 1717.2 | 1722.9 |
| 40°  | 1489.2 | 1498.9 | 1507.6 | 1503.2 | 1592.7 | 1595.0 | 1604.4 | 1597.4 | 1580.4 | 1588.0 | 1590.7 |
| 45°  | 1348.7 | 1356.0 | 1359.0 | 1354.7 | 1444.2 | 1452.8 | 1462.5 | 1455.5 | 1437.5 | 1447.5 | 1449.2 |
| 50°  | 1201.5 | 1206.8 | 1210.8 | 1206.1 | 1294.9 | 1309.0 | 1317.0 | 1310.0 | 1295.3 | 1300.9 | 1302.6 |
| 55°  | 1049.9 | 1048.6 | 1060.3 | 1059.9 | 1148.7 | 1156.1 | 1167.7 | 1163.4 | 1143.0 | 1149.4 | 1158.7 |
| 60°  | 890.7  | 894.0  | 907.7  | 900.7  | 992.1  | 1002.2 | 1017.2 | 1009.5 | 990.5  | 1001.5 | 1005.2 |
| 65°  | 726.1  | 740.1  | 750.5  | 740.1  | 831.2  | 852.3  | 859.0  | 857.3  | 838.9  | 847.9  | 850.9  |
| 70°  | 567.5  | 581.9  | 592.9  | 576.9  | 672.0  | 690.4  | 701.0  | 696.7  | 678.7  | 689.0  | 698.7  |
| 75°  | 409.6  | 426.6  | 435.0  | 422.6  | 509.1  | 528.8  | 543.8  | 535.5  | 515.8  | 534.8  | 537.8  |
| 80°  | 262.4  | 279.4  | 286.4  | 274.4  | 356.2  | 377.9  | 386.9  | 377.2  | 369.9  | 381.9  | 382.9  |
| 85°  | 147.9  | 163.9  | 163.6  | 154.6  | 210.3  | 234.4  | 245.4  | 235.4  | 225.3  | 240.7  | 243.4  |
| 90°  | 32.7   | 34.7   | 33.7   | 28.0   | 117.8  | 125.2  | 128.2  | 135.5  | 133.2  | 133.9  | 133.9  |
| 95°  | 29.0   | 27.4   | 21.7   | 19.7   | 30.7   | 29.4   | 34.4   | 34.4   | 34.4   | 33.4   | 30.0   |
| 100° | 29.4   | 34.7   | 46.7   | 30.7   | 7.0    | 23.7   | 25.7   | 30.7   | 32.0   | 29.0   | 26.4   |
| 105° | 61.4   | 57.8   | 50.1   | 37.7   | 39.1   | 40.1   | 52.1   | 53.1   | 41.4   | 50.4   | 49.4   |
| 110° | 55.1   | 51.7   | 40.4   | 39.4   | 47.4   | 50.1   | 58.4   | 68.4   | 66.4   | 63.1   | 49.7   |
| 115° | 43.1   | 41.7   | 30.7   | 38.1   | 51.4   | 44.7   | 54.1   | 59.4   | 61.4   | 59.1   | 48.1   |
| 120° | 26.0   | 27.4   | 29.4   | 38.4   | 43.7   | 38.7   | 42.1   | 49.7   | 48.7   | 50.1   | 38.4   |
| 125° | 15.4   | 21.7   | 26.7   | 35.4   | 40.7   | 34.4   | 33.7   | 35.7   | 37.1   | 34.4   | 32.4   |
| 130° | 12.7   | 19.7   | 22.0   | 32.0   | 39.7   | 32.4   | 30.0   | 23.7   | 21.4   | 25.0   | 27.7   |
| 135° | 11.0   | 17.4   | 18.0   | 26.4   | 35.1   | 29.7   | 20.4   | 19.4   | 14.7   | 21.4   | 19.7   |
| 140° | 8.3    | 12.7   | 15.7   | 19.7   | 28.0   | 23.4   | 16.7   | 14.7   | 12.0   | 14.7   | 17.0   |
| 145° | 6.0    | 11.4   | 14.7   | 18.4   | 22.4   | 19.4   | 16.7   | 10.0   | 5.3    | 12.0   | 17.0   |
| 150° | 6.3    | 10.7   | 13.4   | 17.7   | 19.7   | 18.0   | 15.0   | 9.0    | 5.3    | 10.7   | 16.4   |
| 155° | 6.0    | 9.3    | 11.7   | 15.0   | 18.4   | 16.7   | 13.4   | 8.7    | 6.0    | 9.7    | 13.4   |
| 160° | 5.7    | 7.7    | 9.7    | 11.4   | 14.7   | 11.7   | 10.3   | 7.3    | 5.7    | 8.3    | 10.7   |
| 165° | 5.7    | 6.7    | 8.3    | 7.3    | 8.7    | 8.3    | 8.3    | 6.7    | 5.7    | 7.3    | 9.3    |
| 170° | 5.7    | 6.3    | 7.0    | 6.0    | 7.3    | 6.3    | 6.7    | 5.7    | 5.7    | 6.3    | 8.0    |
| 175° | 6.3    | 6.0    | 6.3    | 6.7    | 6.3    | 6.3    | 5.7    | 5.7    | 5.7    | 5.7    | 6.3    |
| 180° | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |



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CATALOG NUMBER: 18SFS-L3C4-UNV-MED-4000K

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|------|--------|--------|--------|--------|--------|--------|
| 0°   | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 | 2192.0 |
| 5°   | 2183.3 | 2186.3 | 2172.6 | 2175.9 | 2174.9 | 2165.9 |
| 10°  | 2153.6 | 2144.2 | 2130.2 | 2137.5 | 2134.2 | 2125.2 |
| 15°  | 2102.8 | 2080.8 | 2070.4 | 2075.4 | 2073.8 | 2063.4 |
| 20°  | 2032.0 | 1990.0 | 1988.0 | 1995.6 | 1992.0 | 1978.0 |
| 25°  | 1944.9 | 1889.5 | 1886.5 | 1894.8 | 1894.5 | 1872.5 |
| 30°  | 1837.7 | 1766.3 | 1774.7 | 1778.0 | 1779.0 | 1755.0 |
| 35°  | 1714.9 | 1633.4 | 1645.8 | 1648.5 | 1646.8 | 1624.8 |
| 40°  | 1582.7 | 1495.2 | 1504.9 | 1513.6 | 1504.9 | 1489.2 |
| 45°  | 1440.5 | 1357.4 | 1357.7 | 1366.0 | 1361.0 | 1348.7 |
| 50°  | 1294.6 | 1209.5 | 1211.5 | 1211.5 | 1211.5 | 1201.5 |
| 55°  | 1145.7 | 1051.9 | 1059.6 | 1064.9 | 1060.9 | 1049.9 |
| 60°  | 997.5  | 892.3  | 899.7  | 912.0  | 901.3  | 890.7  |
| 65°  | 842.3  | 734.4  | 735.8  | 753.8  | 745.8  | 726.1  |
| 70°  | 682.7  | 574.5  | 587.2  | 592.6  | 581.5  | 567.5  |
| 75°  | 522.1  | 410.6  | 431.0  | 439.7  | 422.3  | 409.6  |
| 80°  | 371.2  | 264.4  | 283.4  | 289.8  | 275.7  | 262.4  |
| 85°  | 229.3  | 151.6  | 162.6  | 167.3  | 158.2  | 147.9  |
| 90°  | 123.2  | 25.7   | 30.7   | 34.4   | 34.4   | 32.7   |
| 95°  | 28.4   | 5.3    | 24.0   | 22.0   | 27.7   | 29.0   |
| 100° | 25.7   | 39.1   | 46.4   | 47.4   | 31.4   | 29.4   |
| 105° | 36.1   | 47.1   | 36.4   | 53.1   | 55.8   | 61.4   |
| 110° | 35.4   | 43.1   | 30.7   | 46.1   | 52.1   | 55.1   |
| 115° | 31.0   | 40.1   | 34.4   | 35.4   | 40.1   | 43.1   |
| 120° | 36.1   | 45.4   | 34.4   | 28.0   | 25.7   | 26.0   |
| 125° | 36.4   | 41.7   | 29.7   | 26.0   | 18.7   | 15.4   |
| 130° | 34.7   | 36.4   | 26.0   | 22.4   | 16.4   | 12.7   |
| 135° | 30.0   | 31.4   | 20.7   | 16.7   | 14.7   | 11.0   |
| 140° | 23.4   | 23.7   | 18.4   | 16.7   | 9.3    | 8.3    |
| 145° | 18.7   | 21.4   | 19.0   | 15.4   | 8.7    | 6.0    |
| 150° | 18.4   | 21.0   | 17.4   | 13.7   | 8.3    | 6.3    |
| 155° | 18.0   | 17.4   | 14.0   | 11.0   | 7.7    | 6.0    |
| 160° | 11.0   | 10.3   | 11.7   | 9.7    | 6.7    | 5.7    |
| 165° | 9.0    | 9.0    | 10.0   | 9.7    | 6.3    | 5.7    |
| 170° | 8.7    | 7.7    | 8.0    | 6.7    | 6.3    | 5.7    |
| 175° | 6.0    | 7.3    | 6.3    | 6.0    | 6.7    | 6.3    |
| 180° | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)