

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: P855642

Luminaire Tested: **12SFS-L3C4-NUV-HIGH-5000K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218002-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12SFS-L3C4-NUV-HIGH-5000K  
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 5000K CCT Settings  
Light Source: -  
Ballast/Driver: -

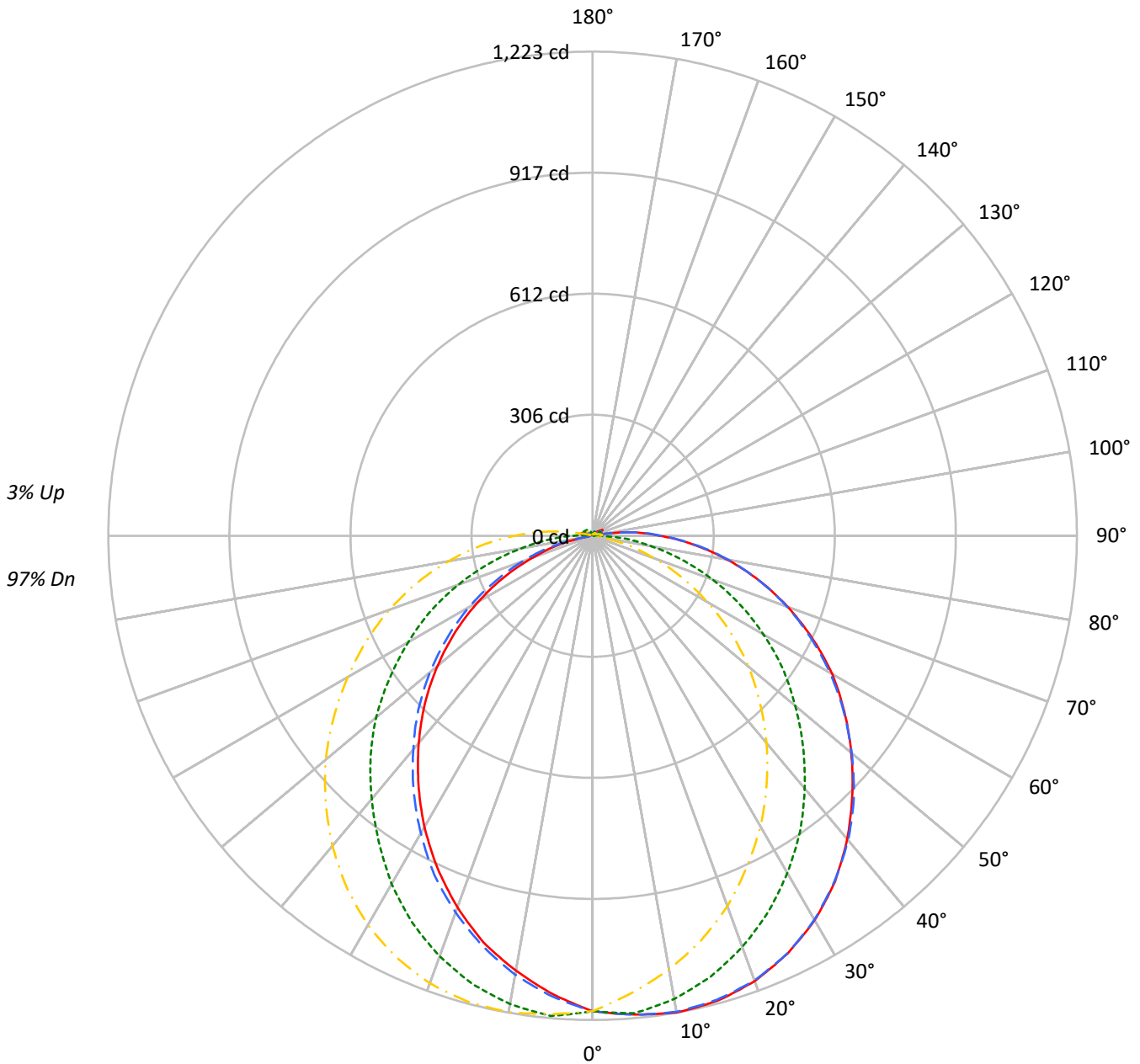
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3611.0 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.92' x L: 1.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28  
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

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CATALOG NUMBER: 12SFS-L3C4-NUV-HIGH-5000K

### Luminous Intensity Polar Plot





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**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 | 97 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 107 | 102 | 97  | 93  | 104 | 99  | 95  | 91  | 94  | 91  | 88  | 90  | 87  | 84  | 86 | 83 | 81 | 79 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 97  | 88  | 81  | 75  | 94  | 86  | 80  | 74  | 82  | 76  | 72  | 78  | 74  | 70  | 75 | 71 | 68 | 65 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 88  | 77  | 69  | 62  | 85  | 76  | 68  | 61  | 72  | 65  | 60  | 69  | 63  | 58  | 66 | 61 | 57 | 55 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 81  | 68  | 59  | 53  | 78  | 67  | 58  | 52  | 64  | 57  | 51  | 61  | 55  | 50  | 59 | 53 | 49 | 46 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 57  | 50  | 44  | 55  | 48  | 43  | 53 | 47 | 42 | 40 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 69  | 55  | 46  | 39  | 66  | 54  | 45  | 39  | 52  | 44  | 38  | 50  | 43  | 38  | 48 | 42 | 37 | 35 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 40  | 34  | 47  | 39  | 34  | 45  | 39  | 33  | 44 | 38 | 33 | 31 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 59  | 45  | 37  | 31  | 57  | 45  | 36  | 31  | 43  | 36  | 30  | 41  | 35  | 30  | 40 | 34 | 30 | 28 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 32  | 27  | 38  | 32  | 27  | 37 | 31 | 27 | 25 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 38  | 31  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 35  | 29  | 25  | 34 | 28 | 24 | 22 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 90°  | 180° | 270° |
|-----|-------|------|------|------|
| 0°  | 7394  | 7394 | 7394 | 7394 |
| 5°  | 7504  | 7483 | 7182 | 7526 |
| 10° | 7647  | 7428 | 6975 | 7509 |
| 15° | 7754  | 7347 | 6782 | 7472 |
| 20° | 7844  | 7242 | 6542 | 7405 |
| 25° | 7911  | 7124 | 6296 | 7325 |
| 30° | 7973  | 6991 | 6037 | 7218 |
| 35° | 8019  | 6864 | 5763 | 7080 |
| 40° | 8039  | 6696 | 5488 | 6976 |
| 45° | 8079  | 6544 | 5213 | 6906 |
| 50° | 8167  | 6395 | 4899 | 6840 |
| 55° | 8335  | 6299 | 4539 | 6710 |
| 60° | 8608  | 6133 | 4105 | 6621 |
| 65° | 8914  | 5980 | 3571 | 6587 |
| 70° | 9434  | 5779 | 2879 | 6481 |
| 75° | 10342 | 5522 | 2134 | 6417 |
| 80° | 12198 | 5241 | 394  | 6457 |
| 85° | 18065 | 5793 | 593  | 7772 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.4  | 3.1       |
| 10°-20°   | 323.3  | 9.0       |
| 20°-30°   | 485.3  | 13.4      |
| 30°-40°   | 578.8  | 16.0      |
| 40°-50°   | 596.7  | 16.5      |
| 50°-60°   | 543.4  | 15.0      |
| 60°-70°   | 430.8  | 11.9      |
| 70°-80°   | 279.9  | 7.8       |
| 80°-90°   | 139.0  | 3.9       |
| 90°-100°  | 54.4   | 1.5       |
| 100°-110° | 17.7   | 0.5       |
| 110°-120° | 16.5   | 0.5       |
| 120°-130° | 13.2   | 0.4       |
| 130°-140° | 8.4    | 0.2       |
| 140°-150° | 5.2    | 0.1       |
| 150°-160° | 3.2    | 0.1       |
| 160°-170° | 1.5    | 0.0       |
| 170°-180° | 0.4    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 922.0  | 25.5      |
| 0°-40°    | 1500.9 | 41.6      |
| 0°-60°    | 2640.9 | 73.1      |
| 0°-90°    | 3490.7 | 96.7      |
| 90°-120°  | 88.5   | 2.5       |
| 90°-150°  | 115.3  | 3.2       |
| 90°-180°  | 120.0  | 3.3       |
| 0°-180°   | 3611.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1201 | 1201 | 1201 | 1201 | 1201 |      |
| 5°   | 1214 | 1211 | 1162 | 1218 | 1214 | 116  |
| 15°  | 1216 | 1152 | 1064 | 1172 | 1216 | 344  |
| 25°  | 1164 | 1049 | 927  | 1078 | 1164 | 537  |
| 35°  | 1067 | 913  | 767  | 942  | 1067 | 667  |
| 45°  | 928  | 752  | 599  | 793  | 928  | 717  |
| 55°  | 776  | 587  | 423  | 625  | 776  | 695  |
| 65°  | 612  | 410  | 245  | 452  | 612  | 606  |
| 75°  | 435  | 232  | 90   | 270  | 435  | 459  |
| 85°  | 256  | 82   | 8    | 110  | 256  | 227  |
| 90°  | 170  | 6    | 8    | 47   | 170  | 95   |
| 95°  | 100  | 2    | 27   | 14   | 100  | 61   |
| 105° | 5    | 24   | 27   | 24   | 5    | 7    |
| 115° | 20   | 20   | 7    | 25   | 20   | 18   |
| 125° | 22   | 18   | 3    | 22   | 22   | 20   |
| 135° | 8    | 14   | 3    | 21   | 8    | 7    |
| 145° | 3    | 12   | 3    | 14   | 3    | 2    |
| 155° | 3    | 10   | 3    | 12   | 3    | 1    |
| 165° | 3    | 5    | 4    | 5    | 3    | 1    |
| 175° | 3    | 4    | 3    | 4    | 3    | 0    |
| 180° | 4    | 4    | 4    | 4    | 4    |      |



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**CANDELA DISTRIBUTION (FULL):**

|      | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°   | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 |
| 5°   | 1214.0 | 1211.0 | 1214.4 | 1216.9 | 1210.6 | 1207.1 | 1158.1 | 1160.4 | 1161.9 | 1161.7 | 1168.4 |
| 10°  | 1223.0 | 1217.7 | 1220.9 | 1222.5 | 1188.0 | 1186.2 | 1112.2 | 1116.7 | 1115.5 | 1119.3 | 1125.9 |
| 15°  | 1216.3 | 1210.6 | 1213.3 | 1213.8 | 1152.5 | 1152.3 | 1058.0 | 1062.2 | 1063.8 | 1067.6 | 1073.0 |
| 20°  | 1197.0 | 1192.4 | 1195.1 | 1192.9 | 1105.2 | 1106.7 | 995.3  | 997.6  | 998.4  | 1004.5 | 1012.4 |
| 25°  | 1164.4 | 1160.9 | 1163.8 | 1160.4 | 1048.6 | 1050.9 | 921.9  | 926.9  | 926.7  | 936.3  | 945.1  |
| 30°  | 1121.4 | 1117.4 | 1119.9 | 1117.6 | 983.3  | 988.2  | 847.6  | 848.3  | 849.1  | 859.6  | 867.9  |
| 35°  | 1066.8 | 1065.3 | 1065.1 | 1063.0 | 913.1  | 916.4  | 766.3  | 766.3  | 766.7  | 778.9  | 787.9  |
| 40°  | 1000.1 | 1002.8 | 1003.8 | 998.0  | 833.0  | 838.7  | 683.1  | 683.7  | 682.7  | 695.0  | 704.8  |
| 45°  | 927.7  | 931.7  | 933.4  | 925.6  | 751.5  | 757.7  | 597.4  | 600.7  | 598.6  | 607.8  | 622.5  |
| 50°  | 852.5  | 855.0  | 853.9  | 849.7  | 667.6  | 676.6  | 513.7  | 513.9  | 511.4  | 524.2  | 535.7  |
| 55°  | 776.4  | 776.1  | 774.1  | 767.6  | 586.7  | 590.1  | 424.7  | 424.0  | 422.8  | 436.6  | 447.4  |
| 60°  | 699.0  | 692.3  | 691.9  | 682.0  | 498.0  | 503.9  | 334.7  | 337.3  | 333.3  | 346.5  | 360.5  |
| 65°  | 611.8  | 608.4  | 606.8  | 603.9  | 410.4  | 418.0  | 248.2  | 247.3  | 245.1  | 259.9  | 270.6  |
| 70°  | 524.0  | 520.8  | 521.7  | 516.7  | 321.0  | 327.6  | 164.5  | 161.8  | 159.9  | 175.0  | 187.6  |
| 75°  | 434.7  | 433.9  | 434.1  | 426.8  | 232.1  | 239.0  | 93.3   | 93.7   | 89.7   | 102.2  | 109.1  |
| 80°  | 344.0  | 346.2  | 347.5  | 335.8  | 147.8  | 158.7  | 9.8    | 11.3   | 11.1   | 14.2   | 20.3   |
| 85°  | 255.7  | 258.2  | 258.9  | 250.1  | 82.0   | 90.1   | 5.9    | 8.2    | 8.4    | 8.2    | 7.1    |
| 90°  | 170.0  | 173.5  | 174.0  | 165.2  | 5.9    | 7.5    | 19.6   | 8.2    | 7.7    | 7.7    | 14.0   |
| 95°  | 100.1  | 104.1  | 102.0  | 96.0   | 2.1    | 8.4    | 24.3   | 25.3   | 26.6   | 25.1   | 26.3   |
| 100° | 14.6   | 7.7    | 7.1    | 6.7    | 17.8   | 18.4   | 20.5   | 24.5   | 29.7   | 27.8   | 25.9   |
| 105° | 4.6    | 5.4    | 5.2    | 9.2    | 23.6   | 20.5   | 14.6   | 22.0   | 27.0   | 25.9   | 19.4   |
| 110° | 4.0    | 4.8    | 17.6   | 18.6   | 22.0   | 18.0   | 10.0   | 15.3   | 17.4   | 17.1   | 14.6   |
| 115° | 19.7   | 22.8   | 24.2   | 19.0   | 20.3   | 16.5   | 9.2    | 7.5    | 6.7    | 8.4    | 14.2   |
| 120° | 29.1   | 23.4   | 19.0   | 16.7   | 19.0   | 15.7   | 8.6    | 6.9    | 2.7    | 7.7    | 13.2   |
| 125° | 22.2   | 18.0   | 11.9   | 14.9   | 18.0   | 14.4   | 7.7    | 6.7    | 2.7    | 7.5    | 11.7   |
| 130° | 16.1   | 13.8   | 8.6    | 14.4   | 16.1   | 11.1   | 9.0    | 6.1    | 2.9    | 7.3    | 10.0   |
| 135° | 7.9    | 9.2    | 8.8    | 14.2   | 14.2   | 11.1   | 9.2    | 5.8    | 2.9    | 6.5    | 9.0    |
| 140° | 2.9    | 8.8    | 9.2    | 12.6   | 13.0   | 10.9   | 8.6    | 5.4    | 2.7    | 5.9    | 8.1    |
| 145° | 2.9    | 8.2    | 7.7    | 11.3   | 11.5   | 7.9    | 6.7    | 5.0    | 3.1    | 5.6    | 7.5    |
| 150° | 2.9    | 7.5    | 10.5   | 9.4    | 11.5   | 6.3    | 5.4    | 4.0    | 3.1    | 5.0    | 5.9    |
| 155° | 2.9    | 6.9    | 11.3   | 10.0   | 10.3   | 3.8    | 3.8    | 3.5    | 3.1    | 4.2    | 5.4    |
| 160° | 3.3    | 6.1    | 9.8    | 10.5   | 5.9    | 4.2    | 3.3    | 3.1    | 3.1    | 3.5    | 4.4    |
| 165° | 3.3    | 5.4    | 7.9    | 9.0    | 5.0    | 3.5    | 3.5    | 3.5    | 3.6    | 3.8    | 3.6    |
| 170° | 3.1    | 4.4    | 5.9    | 6.9    | 5.0    | 3.5    | 3.5    | 3.5    | 3.3    | 3.5    | 3.3    |
| 175° | 2.9    | 3.8    | 4.2    | 3.6    | 3.8    | 3.8    | 3.5    | 3.1    | 3.1    | 3.1    | 3.3    |
| 180° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |



TEST NUMBER: P855642

CATALOG NUMBER: 12SFS-L3C4-NUV-HIGH-5000K

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|------|--------|--------|--------|--------|--------|--------|
| 0°   | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 | 1200.8 |
| 5°   | 1170.3 | 1217.5 | 1213.3 | 1212.7 | 1213.8 | 1214.0 |
| 10°  | 1128.7 | 1201.0 | 1198.5 | 1221.9 | 1223.0 | 1223.0 |
| 15°  | 1078.3 | 1172.1 | 1170.1 | 1218.2 | 1217.1 | 1216.3 |
| 20°  | 1016.0 | 1130.1 | 1129.9 | 1202.9 | 1200.4 | 1197.0 |
| 25°  | 945.1  | 1078.1 | 1078.7 | 1174.2 | 1169.8 | 1164.4 |
| 30°  | 870.6  | 1015.1 | 1020.6 | 1135.2 | 1129.3 | 1121.4 |
| 35°  | 790.1  | 941.9  | 951.8  | 1083.3 | 1078.9 | 1066.8 |
| 40°  | 707.6  | 867.9  | 876.1  | 1022.2 | 1016.8 | 1000.1 |
| 45°  | 622.2  | 793.1  | 795.6  | 953.4  | 946.1  | 927.7  |
| 50°  | 538.4  | 714.0  | 714.9  | 879.8  | 871.5  | 852.5  |
| 55°  | 449.7  | 625.0  | 628.3  | 798.1  | 790.2  | 776.4  |
| 60°  | 359.6  | 537.6  | 543.4  | 713.4  | 706.7  | 699.0  |
| 65°  | 270.4  | 452.1  | 453.3  | 631.0  | 622.2  | 611.8  |
| 70°  | 186.3  | 360.0  | 367.2  | 545.5  | 536.1  | 524.0  |
| 75°  | 109.3  | 269.7  | 279.5  | 458.3  | 449.1  | 434.7  |
| 80°  | 27.8   | 182.1  | 192.6  | 368.8  | 359.6  | 344.0  |
| 85°  | 9.8    | 110.0  | 116.5  | 282.5  | 270.6  | 255.7  |
| 90°  | 10.9   | 47.0   | 49.3   | 195.5  | 183.8  | 170.0  |
| 95°  | 21.1   | 14.4   | 9.8    | 118.8  | 110.2  | 100.1  |
| 100° | 23.2   | 6.1    | 13.6   | 40.3   | 32.8   | 14.6   |
| 105° | 22.4   | 24.0   | 21.7   | 6.1    | 5.2    | 4.6    |
| 110° | 21.5   | 25.5   | 19.9   | 6.9    | 4.0    | 4.0    |
| 115° | 20.5   | 24.9   | 20.7   | 21.3   | 20.9   | 19.7   |
| 120° | 19.6   | 22.4   | 19.7   | 22.4   | 25.1   | 29.1   |
| 125° | 17.1   | 22.0   | 18.6   | 20.9   | 21.5   | 22.2   |
| 130° | 13.4   | 21.3   | 17.6   | 14.8   | 17.6   | 16.1   |
| 135° | 11.9   | 20.7   | 15.1   | 14.8   | 9.2    | 7.9    |
| 140° | 10.9   | 16.3   | 13.2   | 14.0   | 7.1    | 2.9    |
| 145° | 8.1    | 14.4   | 11.3   | 11.5   | 6.9    | 2.9    |
| 150° | 6.7    | 12.3   | 13.2   | 10.2   | 6.3    | 2.9    |
| 155° | 5.8    | 11.5   | 11.1   | 10.3   | 5.9    | 2.9    |
| 160° | 5.4    | 5.9    | 10.2   | 9.4    | 5.6    | 3.3    |
| 165° | 3.6    | 5.0    | 8.4    | 7.5    | 5.2    | 3.3    |
| 170° | 3.3    | 5.4    | 6.7    | 6.3    | 4.6    | 3.1    |
| 175° | 3.8    | 4.2    | 5.6    | 5.4    | 4.0    | 2.9    |
| 180° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)