

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: CORELITE

Report Number: P520480

Luminaire Tested: **4WSLA-100-L950-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-100-L950-UNV-U  
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

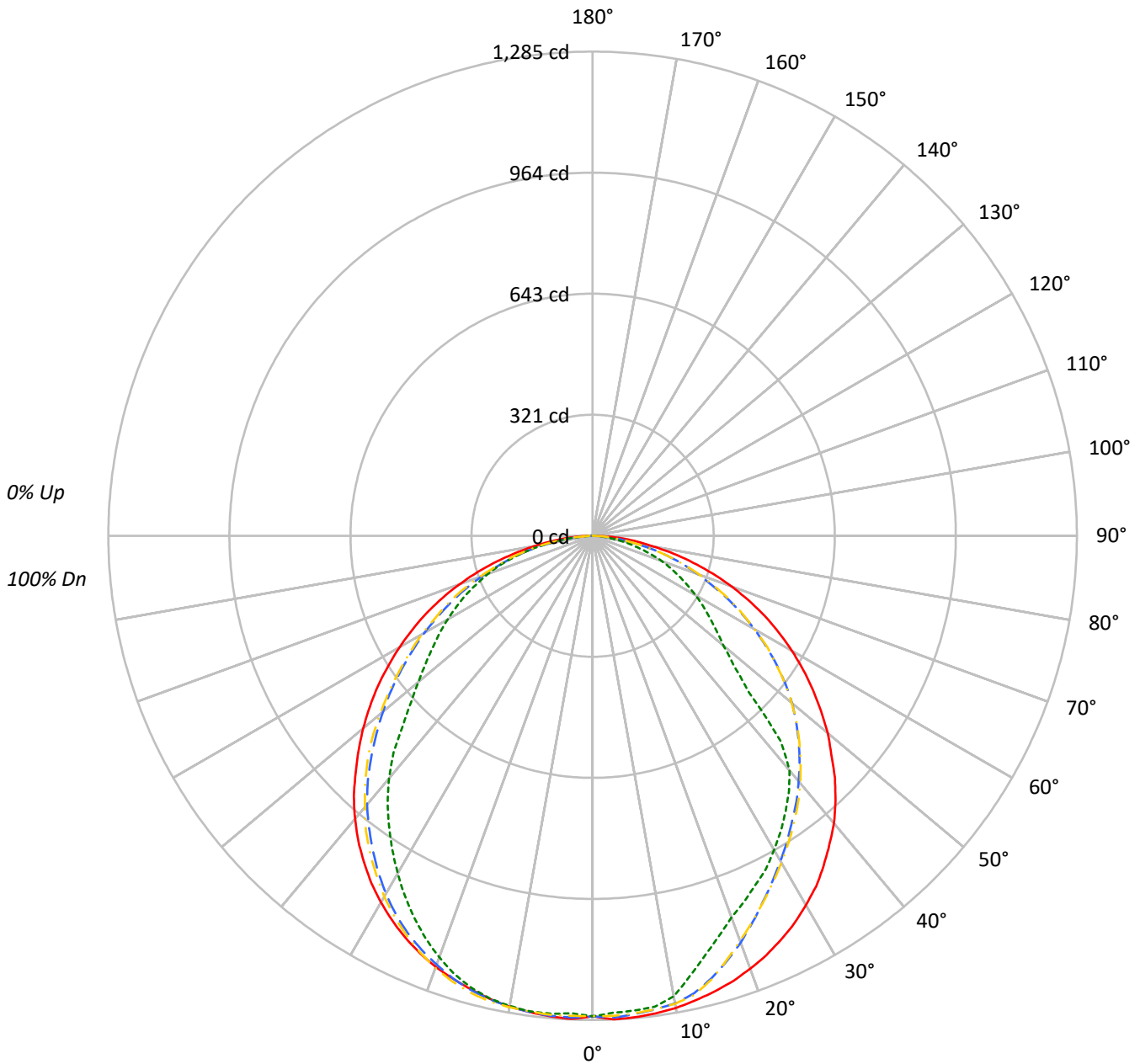
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3421.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.6  
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: P520480

CATALOG NUMBER: 4WSLA-100-L950-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520480

CATALOG NUMBER: 4WSLA-100-L950-UNV-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF  | 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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |    |    |   |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 73  | 70  |    |    |   |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |   |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |   |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 46  | 44  |    |    |   |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |    |    |   |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |    |    |   |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |    |    |   |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |   |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 6863 | 6863 | 6863 | 6863 |
| 5°  | 6930 | 6834 | 6919 | 6878 |
| 10° | 6954 | 6782 | 6936 | 6924 |
| 15° | 6976 | 6423 | 6945 | 6922 |
| 20° | 7002 | 6171 | 6975 | 6818 |
| 25° | 7024 | 6070 | 6988 | 6647 |
| 30° | 7032 | 5982 | 6981 | 6428 |
| 35° | 7021 | 5866 | 6949 | 6190 |
| 40° | 6998 | 5710 | 6888 | 5902 |
| 45° | 6920 | 4437 | 6764 | 5415 |
| 50° | 6816 | 3798 | 6651 | 5052 |
| 55° | 6696 | 3556 | 6522 | 4860 |
| 60° | 6569 | 3395 | 6370 | 4779 |
| 65° | 6412 | 3214 | 6194 | 4722 |
| 70° | 6157 | 3057 | 5899 | 4650 |
| 75° | 5733 | 2689 | 5463 | 4425 |
| 80° | 5089 | 2247 | 4770 | 3753 |
| 85° | 4817 | 1606 | 4224 | 2155 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.2  | 3.5       |
| 10°-20°   | 345.6  | 10.1      |
| 20°-30°   | 516.4  | 15.1      |
| 30°-40°   | 614.7  | 18.0      |
| 40°-50°   | 614.5  | 18.0      |
| 50°-60°   | 528.7  | 15.5      |
| 60°-70°   | 397.9  | 11.6      |
| 70°-80°   | 226.8  | 6.6       |
| 80°-90°   | 55.2   | 1.6       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 983.2  | 28.7      |
| 0°-40°    | 1597.9 | 46.7      |
| 0°-60°    | 2741.1 | 80.1      |
| 0°-90°    | 3421.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3421.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1275 | 1275 | 1275 | 1275 | 1275 |      |
| 5°  | 1283 | 1265 | 1281 | 1273 | 1283 | 122  |
| 15° | 1252 | 1153 | 1246 | 1242 | 1252 | 354  |
| 25° | 1183 | 1022 | 1177 | 1119 | 1183 | 545  |
| 35° | 1069 | 893  | 1058 | 942  | 1069 | 669  |
| 45° | 909  | 583  | 889  | 712  | 909  | 700  |
| 55° | 714  | 379  | 695  | 518  | 714  | 638  |
| 65° | 504  | 252  | 486  | 371  | 504  | 497  |
| 75° | 276  | 129  | 263  | 213  | 276  | 292  |
| 85° | 78   | 26   | 68   | 35   | 78   | 85   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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CATALOG NUMBER: 4WSLA-100-L950-UNV-U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 |
| 2.5°  | 1284.8 | 1273.2 | 1280.0 | 1278.0 | 1267.0 | 1271.1 | 1275.2 | 1271.1 | 1283.4 | 1272.5 | 1280.0 |
| 5°    | 1282.8 | 1270.4 | 1274.6 | 1270.4 | 1265.0 | 1266.3 | 1272.5 | 1268.4 | 1280.7 | 1269.1 | 1278.7 |
| 7.5°  | 1278.7 | 1263.6 | 1267.7 | 1265.7 | 1260.9 | 1261.6 | 1267.7 | 1264.3 | 1275.2 | 1264.3 | 1275.2 |
| 10°   | 1272.5 | 1256.8 | 1260.2 | 1251.3 | 1241.0 | 1248.6 | 1260.9 | 1257.4 | 1269.1 | 1256.8 | 1269.1 |
| 12.5° | 1262.9 | 1247.2 | 1243.8 | 1214.3 | 1195.9 | 1210.2 | 1247.9 | 1247.9 | 1258.8 | 1247.2 | 1260.2 |
| 15°   | 1252.0 | 1234.9 | 1216.4 | 1171.9 | 1152.8 | 1167.1 | 1219.1 | 1236.9 | 1246.5 | 1234.9 | 1247.9 |
| 17.5° | 1239.0 | 1219.1 | 1183.6 | 1131.6 | 1113.8 | 1128.1 | 1181.5 | 1220.5 | 1232.8 | 1220.5 | 1232.1 |
| 20°   | 1222.6 | 1199.3 | 1148.7 | 1089.1 | 1077.5 | 1090.5 | 1143.9 | 1200.7 | 1217.8 | 1202.7 | 1210.9 |
| 22.5° | 1204.8 | 1176.7 | 1109.7 | 1056.3 | 1050.8 | 1059.0 | 1107.6 | 1176.0 | 1198.6 | 1182.9 | 1188.4 |
| 25°   | 1182.9 | 1150.0 | 1070.7 | 1026.2 | 1022.1 | 1026.9 | 1072.0 | 1147.3 | 1176.7 | 1160.3 | 1162.4 |
| 27.5° | 1159.6 | 1124.0 | 1033.7 | 1000.9 | 996.8  | 998.8  | 1036.5 | 1115.1 | 1151.4 | 1135.0 | 1131.6 |
| 30°   | 1131.6 | 1093.3 | 996.8  | 966.7  | 962.6  | 970.1  | 1002.3 | 1082.3 | 1123.4 | 1106.9 | 1096.7 |
| 32.5° | 1103.5 | 1059.7 | 960.5  | 937.3  | 929.1  | 935.9  | 966.7  | 1048.1 | 1092.6 | 1075.5 | 1058.4 |
| 35°   | 1068.6 | 1024.2 | 922.9  | 899.6  | 892.8  | 900.3  | 931.1  | 1012.5 | 1057.7 | 1040.6 | 1017.3 |
| 37.5° | 1032.4 | 986.5  | 888.7  | 867.5  | 855.2  | 864.1  | 894.9  | 975.6  | 1021.4 | 1003.6 | 974.9  |
| 40°   | 996.1  | 946.8  | 850.4  | 828.5  | 812.8  | 825.8  | 857.2  | 936.6  | 980.4  | 964.0  | 931.1  |
| 42.5° | 953.7  | 907.2  | 812.8  | 782.0  | 737.5  | 779.2  | 816.9  | 897.6  | 938.0  | 922.2  | 882.5  |
| 45°   | 909.2  | 864.8  | 773.1  | 698.5  | 582.9  | 705.3  | 775.8  | 856.5  | 888.7  | 873.6  | 830.5  |
| 47.5° | 858.6  | 821.0  | 732.7  | 619.1  | 506.9  | 626.0  | 734.1  | 817.5  | 842.2  | 825.8  | 777.9  |
| 50°   | 814.1  | 777.2  | 690.3  | 552.1  | 453.6  | 559.6  | 689.6  | 773.8  | 794.3  | 779.2  | 725.9  |
| 52.5° | 763.5  | 731.3  | 644.5  | 492.6  | 413.9  | 500.1  | 643.1  | 728.6  | 745.0  | 727.2  | 673.9  |
| 55°   | 713.6  | 684.8  | 595.9  | 439.9  | 379.0  | 446.7  | 594.5  | 682.1  | 695.1  | 674.6  | 619.1  |
| 57.5° | 662.9  | 636.9  | 545.9  | 392.7  | 346.9  | 400.2  | 549.4  | 634.2  | 643.1  | 617.1  | 566.5  |
| 60°   | 610.3  | 588.4  | 495.3  | 351.0  | 315.4  | 357.1  | 493.9  | 586.3  | 591.8  | 563.7  | 515.2  |
| 62.5° | 557.6  | 537.7  | 444.7  | 312.7  | 283.2  | 316.8  | 448.1  | 535.7  | 539.1  | 512.4  | 462.5  |
| 65°   | 503.5  | 485.1  | 395.4  | 272.3  | 252.4  | 279.1  | 398.9  | 483.0  | 486.4  | 456.3  | 411.2  |
| 67.5° | 447.4  | 432.4  | 342.8  | 241.5  | 223.0  | 243.6  | 349.6  | 429.6  | 431.7  | 402.3  | 361.2  |
| 70°   | 391.3  | 378.3  | 296.2  | 208.0  | 194.3  | 208.7  | 301.0  | 370.8  | 374.9  | 343.4  | 310.6  |
| 72.5° | 333.9  | 323.6  | 251.1  | 173.1  | 160.8  | 173.1  | 253.8  | 316.8  | 319.5  | 293.5  | 261.3  |
| 75°   | 275.7  | 268.2  | 205.2  | 138.9  | 129.3  | 138.2  | 206.6  | 262.7  | 262.7  | 238.1  | 212.8  |
| 77.5° | 219.6  | 214.1  | 157.4  | 106.7  | 99.9   | 105.4  | 158.0  | 208.0  | 206.6  | 187.5  | 167.6  |
| 80°   | 164.2  | 160.1  | 112.9  | 77.3   | 72.5   | 75.3   | 112.9  | 153.9  | 153.9  | 140.2  | 116.3  |
| 82.5° | 117.7  | 112.9  | 74.6   | 50.6   | 47.9   | 49.3   | 73.2   | 107.4  | 109.5  | 99.2   | 78.7   |
| 85°   | 78.0   | 67.0   | 40.4   | 28.0   | 26.0   | 26.7   | 38.3   | 62.3   | 68.4   | 57.5   | 41.0   |
| 87.5° | 34.2   | 22.6   | 10.3   | 4.1    | 2.1    | 2.7    | 8.2    | 19.8   | 26.0   | 17.1   | 5.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 | 1275.2 |
| 2.5°  | 1279.3 | 1268.4 | 1272.5 | 1275.2 | 1272.5 | 1284.8 |
| 5°    | 1278.0 | 1273.2 | 1272.5 | 1275.9 | 1270.4 | 1282.8 |
| 7.5°  | 1275.9 | 1273.2 | 1272.5 | 1273.9 | 1267.0 | 1278.7 |
| 10°   | 1271.1 | 1267.0 | 1268.4 | 1270.4 | 1261.6 | 1272.5 |
| 12.5° | 1262.2 | 1258.1 | 1258.8 | 1265.7 | 1253.3 | 1262.9 |
| 15°   | 1247.2 | 1242.4 | 1247.2 | 1254.7 | 1243.8 | 1252.0 |
| 17.5° | 1227.3 | 1219.8 | 1228.0 | 1239.7 | 1231.5 | 1239.0 |
| 20°   | 1202.0 | 1190.4 | 1199.3 | 1220.5 | 1213.0 | 1222.6 |
| 22.5° | 1171.2 | 1156.9 | 1165.8 | 1196.6 | 1194.5 | 1204.8 |
| 25°   | 1136.4 | 1119.3 | 1131.6 | 1169.2 | 1173.3 | 1182.9 |
| 27.5° | 1097.4 | 1078.2 | 1094.6 | 1139.1 | 1148.7 | 1159.6 |
| 30°   | 1054.9 | 1034.4 | 1053.6 | 1105.6 | 1119.9 | 1131.6 |
| 32.5° | 1011.2 | 988.6  | 1010.5 | 1067.9 | 1088.5 | 1103.5 |
| 35°   | 965.3  | 942.1  | 966.7  | 1028.9 | 1053.6 | 1068.6 |
| 37.5° | 916.1  | 893.5  | 920.2  | 987.9  | 1017.3 | 1032.4 |
| 40°   | 865.4  | 840.1  | 870.2  | 939.3  | 978.3  | 996.1  |
| 42.5° | 813.4  | 782.0  | 818.9  | 893.5  | 935.9  | 953.7  |
| 45°   | 755.3  | 711.5  | 761.4  | 844.9  | 889.4  | 909.2  |
| 47.5° | 697.1  | 653.4  | 704.0  | 792.9  | 840.8  | 858.6  |
| 50°   | 641.0  | 603.4  | 643.8  | 736.1  | 791.5  | 814.1  |
| 52.5° | 589.7  | 558.9  | 593.1  | 680.7  | 740.9  | 763.5  |
| 55°   | 541.8  | 517.9  | 545.9  | 626.0  | 687.6  | 713.6  |
| 57.5° | 496.7  | 481.6  | 500.8  | 574.0  | 638.3  | 662.9  |
| 60°   | 454.3  | 444.0  | 457.7  | 522.7  | 580.2  | 610.3  |
| 62.5° | 412.5  | 407.1  | 417.3  | 468.6  | 526.1  | 557.6  |
| 65°   | 372.2  | 370.8  | 376.3  | 421.4  | 469.3  | 503.5  |
| 67.5° | 331.8  | 331.1  | 334.5  | 371.5  | 413.9  | 447.4  |
| 70°   | 291.4  | 295.5  | 293.5  | 317.4  | 358.5  | 391.3  |
| 72.5° | 250.4  | 256.6  | 253.1  | 268.2  | 307.9  | 333.9  |
| 75°   | 204.6  | 212.8  | 205.9  | 223.0  | 247.7  | 275.7  |
| 77.5° | 157.4  | 166.2  | 158.0  | 173.1  | 199.8  | 219.6  |
| 80°   | 112.9  | 121.1  | 114.3  | 125.9  | 149.1  | 164.2  |
| 82.5° | 71.2   | 77.3   | 71.8   | 83.5   | 106.7  | 117.7  |
| 85°   | 31.5   | 34.9   | 36.3   | 45.2   | 65.7   | 78.0   |
| 87.5° | 1.4    | 0.7    | 1.4    | 8.9    | 23.3   | 34.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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









(END OF REPORT)