

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: P520612

Luminaire Tested: **4WSLA-75-L850-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520612  
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-75-L850-UNV-U  
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

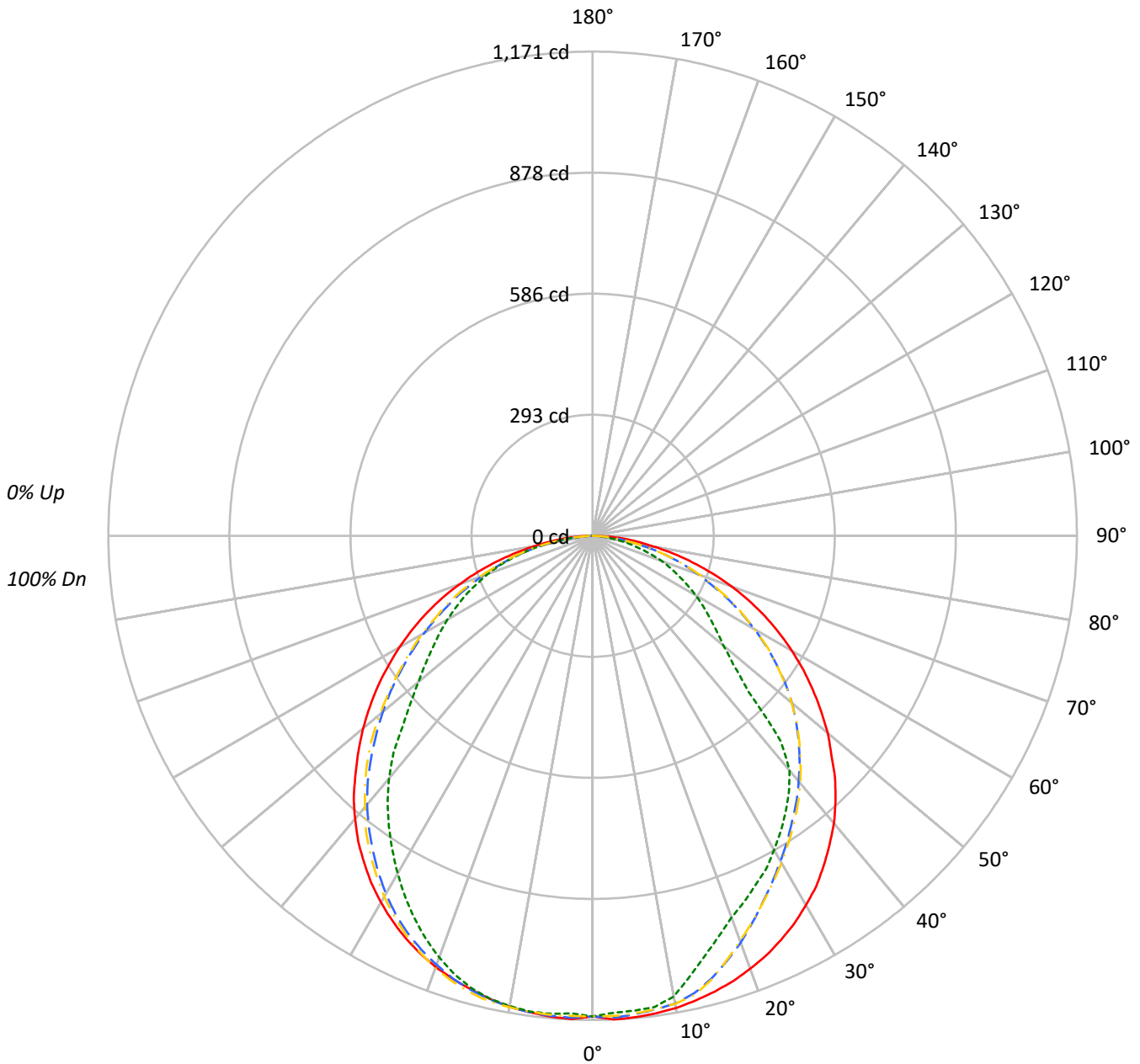
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3118.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 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): 23.2  
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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### Luminous Intensity Polar Plot





TEST NUMBER: P520612

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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   | 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°  | 6255 | 6255 | 6255 | 6255 |
| 5°  | 6316 | 6229 | 6306 | 6269 |
| 10° | 6338 | 6181 | 6321 | 6311 |
| 15° | 6358 | 5854 | 6330 | 6310 |
| 20° | 6382 | 5625 | 6357 | 6214 |
| 25° | 6402 | 5532 | 6369 | 6058 |
| 30° | 6409 | 5452 | 6363 | 5859 |
| 35° | 6399 | 5346 | 6334 | 5641 |
| 40° | 6379 | 5205 | 6277 | 5380 |
| 45° | 6307 | 4044 | 6165 | 4936 |
| 50° | 6213 | 3461 | 6061 | 4605 |
| 55° | 6103 | 3241 | 5944 | 4429 |
| 60° | 5987 | 3095 | 5806 | 4356 |
| 65° | 5844 | 2930 | 5645 | 4304 |
| 70° | 5613 | 2787 | 5377 | 4239 |
| 75° | 5226 | 2450 | 4978 | 4032 |
| 80° | 4640 | 2049 | 4348 | 3422 |
| 85° | 4390 | 1463 | 3853 | 1964 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.4  | 3.5       |
| 10°-20°   | 315.0  | 10.1      |
| 20°-30°   | 470.7  | 15.1      |
| 30°-40°   | 560.3  | 18.0      |
| 40°-50°   | 560.0  | 18.0      |
| 50°-60°   | 481.9  | 15.5      |
| 60°-70°   | 362.7  | 11.6      |
| 70°-80°   | 206.7  | 6.6       |
| 80°-90°   | 50.3   | 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°    | 896.1  | 28.7      |
| 0°-40°    | 1456.4 | 46.7      |
| 0°-60°    | 2498.3 | 80.1      |
| 0°-90°    | 3118.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3118.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1162 | 1162 | 1162 | 1162 | 1162 |      |
| 5°  | 1169 | 1153 | 1167 | 1160 | 1169 | 111  |
| 15° | 1141 | 1051 | 1136 | 1132 | 1141 | 322  |
| 25° | 1078 | 932  | 1072 | 1020 | 1078 | 497  |
| 35° | 974  | 814  | 964  | 859  | 974  | 609  |
| 45° | 829  | 531  | 810  | 648  | 829  | 638  |
| 55° | 650  | 345  | 634  | 472  | 650  | 581  |
| 65° | 459  | 230  | 443  | 338  | 459  | 453  |
| 75° | 251  | 118  | 239  | 194  | 251  | 266  |
| 85° | 71   | 24   | 62   | 32   | 71   | 77   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 |
| 2.5°  | 1171.0 | 1160.4 | 1166.7 | 1164.8 | 1154.8 | 1158.5 | 1162.3 | 1158.5 | 1169.8 | 1159.8 | 1166.7 |
| 5°    | 1169.1 | 1157.9 | 1161.7 | 1157.9 | 1152.9 | 1154.2 | 1159.8 | 1156.1 | 1167.3 | 1156.7 | 1165.4 |
| 7.5°  | 1165.4 | 1151.7 | 1155.4 | 1153.6 | 1149.2 | 1149.8 | 1155.4 | 1152.3 | 1162.3 | 1152.3 | 1162.3 |
| 10°   | 1159.8 | 1145.5 | 1148.6 | 1140.5 | 1131.1 | 1138.0 | 1149.2 | 1146.1 | 1156.7 | 1145.5 | 1156.7 |
| 12.5° | 1151.1 | 1136.7 | 1133.6 | 1106.8 | 1090.0 | 1103.1 | 1137.3 | 1137.3 | 1147.3 | 1136.7 | 1148.6 |
| 15°   | 1141.1 | 1125.5 | 1108.7 | 1068.1 | 1050.7 | 1063.8 | 1111.2 | 1127.4 | 1136.1 | 1125.5 | 1137.3 |
| 17.5° | 1129.2 | 1111.2 | 1078.7 | 1031.3 | 1015.1 | 1028.2 | 1076.9 | 1112.4 | 1123.6 | 1112.4 | 1123.0 |
| 20°   | 1114.3 | 1093.1 | 1046.9 | 992.7  | 982.1  | 993.9  | 1042.6 | 1094.3 | 1109.9 | 1096.2 | 1103.7 |
| 22.5° | 1098.1 | 1072.5 | 1011.4 | 962.8  | 957.8  | 965.2  | 1009.5 | 1071.9 | 1092.5 | 1078.1 | 1083.1 |
| 25°   | 1078.1 | 1048.2 | 975.8  | 935.3  | 931.6  | 935.9  | 977.1  | 1045.7 | 1072.5 | 1057.5 | 1059.4 |
| 27.5° | 1056.9 | 1024.5 | 942.2  | 912.2  | 908.5  | 910.4  | 944.7  | 1016.4 | 1049.4 | 1034.5 | 1031.3 |
| 30°   | 1031.3 | 996.4  | 908.5  | 881.1  | 877.3  | 884.2  | 913.5  | 986.4  | 1023.9 | 1008.9 | 999.5  |
| 32.5° | 1005.8 | 965.9  | 875.5  | 854.3  | 846.8  | 853.0  | 881.1  | 955.3  | 995.8  | 980.2  | 964.6  |
| 35°   | 974.0  | 933.4  | 841.2  | 820.0  | 813.7  | 820.6  | 848.6  | 922.8  | 964.0  | 948.4  | 927.2  |
| 37.5° | 940.9  | 899.2  | 810.0  | 790.7  | 779.4  | 787.5  | 815.6  | 889.2  | 931.0  | 914.7  | 888.6  |
| 40°   | 907.9  | 863.0  | 775.1  | 755.1  | 740.8  | 752.6  | 781.3  | 853.6  | 893.5  | 878.6  | 848.6  |
| 42.5° | 869.2  | 826.8  | 740.8  | 712.7  | 672.2  | 710.2  | 744.5  | 818.1  | 854.9  | 840.5  | 804.4  |
| 45°   | 828.7  | 788.2  | 704.6  | 636.6  | 531.3  | 642.9  | 707.1  | 780.7  | 810.0  | 796.3  | 757.0  |
| 47.5° | 782.5  | 748.3  | 667.8  | 564.3  | 462.0  | 570.5  | 669.1  | 745.1  | 767.6  | 752.6  | 709.0  |
| 50°   | 742.0  | 708.3  | 629.2  | 503.2  | 413.4  | 510.1  | 628.5  | 705.2  | 723.9  | 710.2  | 661.6  |
| 52.5° | 695.9  | 666.6  | 587.4  | 449.0  | 377.2  | 455.8  | 586.1  | 664.1  | 679.0  | 662.8  | 614.2  |
| 55°   | 650.4  | 624.2  | 543.1  | 400.9  | 345.4  | 407.2  | 541.9  | 621.7  | 633.5  | 614.8  | 564.3  |
| 57.5° | 604.2  | 580.5  | 497.6  | 357.9  | 316.1  | 364.8  | 500.7  | 578.0  | 586.1  | 562.4  | 516.3  |
| 60°   | 556.2  | 536.2  | 451.4  | 319.9  | 287.5  | 325.5  | 450.2  | 534.4  | 539.4  | 513.8  | 469.5  |
| 62.5° | 508.2  | 490.1  | 405.3  | 285.0  | 258.1  | 288.7  | 408.4  | 488.2  | 491.4  | 467.0  | 421.5  |
| 65°   | 458.9  | 442.1  | 360.4  | 248.2  | 230.1  | 254.4  | 363.5  | 440.2  | 443.3  | 415.9  | 374.8  |
| 67.5° | 407.8  | 394.1  | 312.4  | 220.1  | 203.3  | 222.0  | 318.6  | 391.6  | 393.5  | 366.6  | 329.2  |
| 70°   | 356.7  | 344.8  | 270.0  | 189.6  | 177.1  | 190.2  | 274.4  | 338.0  | 341.7  | 313.0  | 283.1  |
| 72.5° | 304.3  | 294.9  | 228.8  | 157.8  | 146.5  | 157.8  | 231.3  | 288.7  | 291.2  | 267.5  | 238.2  |
| 75°   | 251.3  | 244.4  | 187.1  | 126.6  | 117.8  | 126.0  | 188.3  | 239.4  | 239.4  | 217.0  | 193.9  |
| 77.5° | 200.2  | 195.2  | 143.4  | 97.3   | 91.0   | 96.0   | 144.0  | 189.6  | 188.3  | 170.9  | 152.8  |
| 80°   | 149.7  | 145.9  | 102.9  | 70.5   | 66.1   | 68.6   | 102.9  | 140.3  | 140.3  | 127.8  | 106.0  |
| 82.5° | 107.2  | 102.9  | 68.0   | 46.1   | 43.6   | 44.9   | 66.7   | 97.9   | 99.8   | 90.4   | 71.7   |
| 85°   | 71.1   | 61.1   | 36.8   | 25.6   | 23.7   | 24.3   | 34.9   | 56.7   | 62.4   | 52.4   | 37.4   |
| 87.5° | 31.2   | 20.6   | 9.4    | 3.7    | 1.9    | 2.5    | 7.5    | 18.1   | 23.7   | 15.6   | 5.0    |
| 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°    | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 | 1162.3 |
| 2.5°  | 1166.0 | 1156.1 | 1159.8 | 1162.3 | 1159.8 | 1171.0 |
| 5°    | 1164.8 | 1160.4 | 1159.8 | 1162.9 | 1157.9 | 1169.1 |
| 7.5°  | 1162.9 | 1160.4 | 1159.8 | 1161.0 | 1154.8 | 1165.4 |
| 10°   | 1158.5 | 1154.8 | 1156.1 | 1157.9 | 1149.8 | 1159.8 |
| 12.5° | 1150.4 | 1146.7 | 1147.3 | 1153.6 | 1142.3 | 1151.1 |
| 15°   | 1136.7 | 1132.4 | 1136.7 | 1143.6 | 1133.6 | 1141.1 |
| 17.5° | 1118.6 | 1111.8 | 1119.3 | 1129.9 | 1122.4 | 1129.2 |
| 20°   | 1095.6 | 1085.0 | 1093.1 | 1112.4 | 1105.5 | 1114.3 |
| 22.5° | 1067.5 | 1054.4 | 1062.5 | 1090.6 | 1088.7 | 1098.1 |
| 25°   | 1035.7 | 1020.1 | 1031.3 | 1065.6 | 1069.4 | 1078.1 |
| 27.5° | 1000.2 | 982.7  | 997.7  | 1038.2 | 1046.9 | 1056.9 |
| 30°   | 961.5  | 942.8  | 960.3  | 1007.6 | 1020.7 | 1031.3 |
| 32.5° | 921.6  | 901.0  | 921.0  | 973.4  | 992.1  | 1005.8 |
| 35°   | 879.8  | 858.6  | 881.1  | 937.8  | 960.3  | 974.0  |
| 37.5° | 834.9  | 814.3  | 838.7  | 900.4  | 927.2  | 940.9  |
| 40°   | 788.8  | 765.7  | 793.1  | 856.1  | 891.7  | 907.9  |
| 42.5° | 741.4  | 712.7  | 746.4  | 814.3  | 853.0  | 869.2  |
| 45°   | 688.4  | 648.5  | 694.0  | 770.1  | 810.6  | 828.7  |
| 47.5° | 635.4  | 595.5  | 641.6  | 722.7  | 766.3  | 782.5  |
| 50°   | 584.3  | 550.0  | 586.8  | 670.9  | 721.4  | 742.0  |
| 52.5° | 537.5  | 509.4  | 540.6  | 620.4  | 675.3  | 695.9  |
| 55°   | 493.8  | 472.0  | 497.6  | 570.5  | 626.7  | 650.4  |
| 57.5° | 452.7  | 439.0  | 456.4  | 523.2  | 581.8  | 604.2  |
| 60°   | 414.0  | 404.7  | 417.2  | 476.4  | 528.8  | 556.2  |
| 62.5° | 376.0  | 371.0  | 380.4  | 427.1  | 479.5  | 508.2  |
| 65°   | 339.2  | 338.0  | 342.9  | 384.1  | 427.8  | 458.9  |
| 67.5° | 302.4  | 301.8  | 304.9  | 338.6  | 377.2  | 407.8  |
| 70°   | 265.6  | 269.4  | 267.5  | 289.3  | 326.7  | 356.7  |
| 72.5° | 228.2  | 233.8  | 230.7  | 244.4  | 280.6  | 304.3  |
| 75°   | 186.4  | 193.9  | 187.7  | 203.3  | 225.7  | 251.3  |
| 77.5° | 143.4  | 151.5  | 144.0  | 157.8  | 182.1  | 200.2  |
| 80°   | 102.9  | 110.4  | 104.1  | 114.7  | 135.9  | 149.7  |
| 82.5° | 64.8   | 70.5   | 65.5   | 76.1   | 97.3   | 107.2  |
| 85°   | 28.7   | 31.8   | 33.0   | 41.2   | 59.9   | 71.1   |
| 87.5° | 1.2    | 0.6    | 1.2    | 8.1    | 21.2   | 31.2   |
| 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)