

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1311553

Luminaire Tested: LDSQA3D13R659040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R659040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

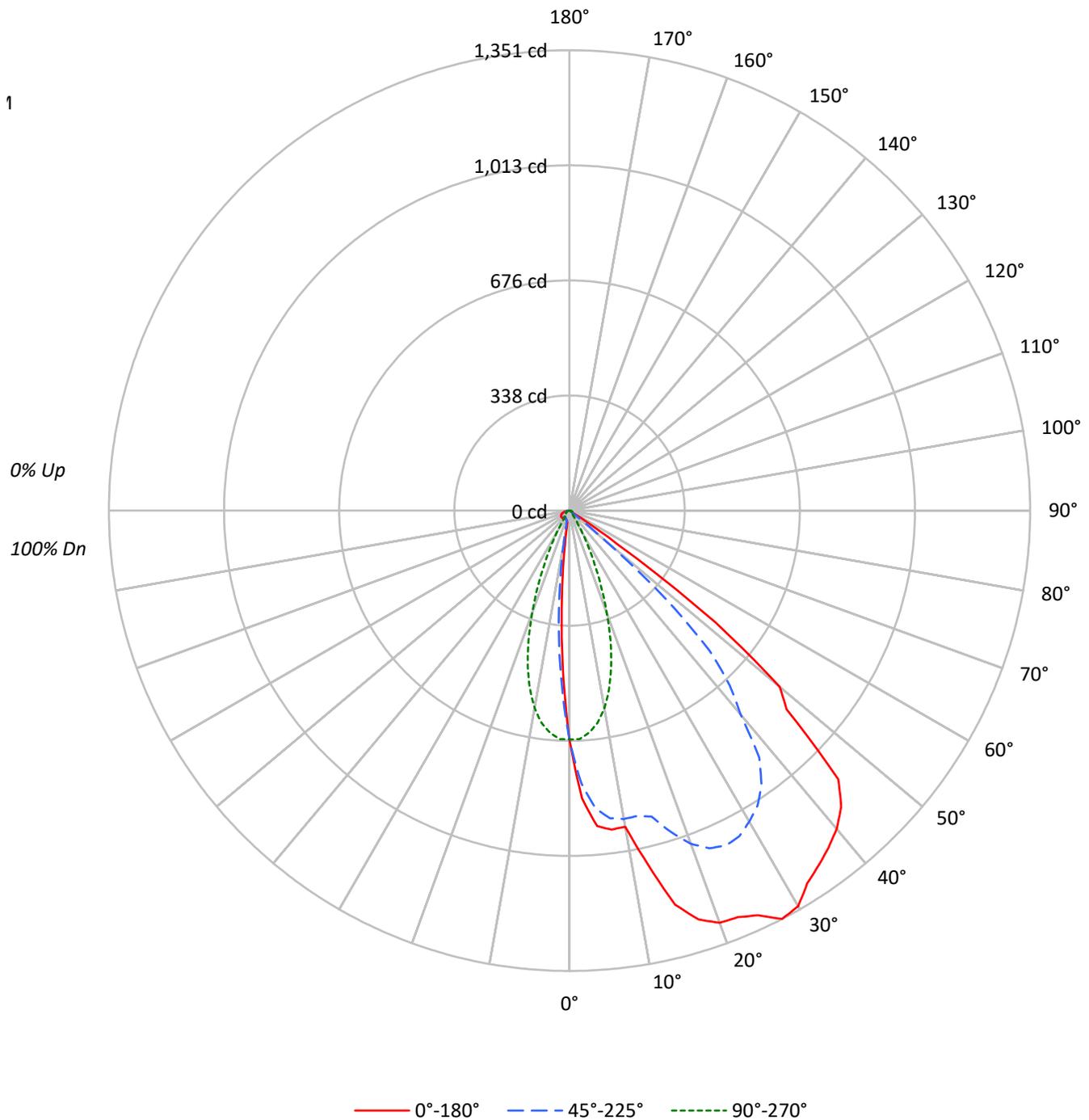
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1006.0 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: 24 FT

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### Luminous Intensity Polar Plot





TEST NUMBER: P1311553

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**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 | 102 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 103 | 110 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 95  | 94  | 92  | 90  |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 88  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 81  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 68  | 64  | 60  | 58  |
| 6   | 79  | 68  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 63  | 58  | 54  | 53  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 58  | 53  | 49  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 49  | 45  | 43  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 50  | 45  | 41  | 40  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 42  | 38  | 36  |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 115596 | 115596 | 115596 | 115596 | 115596 |
| 5°  | 160675 | 151633 | 113133 | 62168  | 43739  |
| 10° | 164719 | 160697 | 102934 | 17366  | 6401   |
| 15° | 213423 | 165710 | 84246  | 5599   | 5402   |
| 20° | 235857 | 190643 | 58630  | 4985   | 5168   |
| 25° | 248916 | 206008 | 33179  | 4770   | 5169   |
| 30° | 266540 | 209565 | 14975  | 4773   | 5409   |
| 35° | 267495 | 206398 | 4836   | 5046   | 5929   |
| 40° | 274056 | 175338 | 3282   | 5396   | 6587   |
| 45° | 271423 | 141313 | 3312   | 5845   | 7136   |
| 50° | 215390 | 33331  | 3349   | 6430   | 8118   |
| 55° | 51164  | 1892   | 3453   | 7206   | 9098   |
| 60° | 1791   | 2170   | 3961   | 7578   | 9713   |
| 65° | 2119   | 2119   | 3831   | 8110   | 10636  |
| 70° | 1561   | 2115   | 3676   | 7906   | 11078  |
| 75° | 1397   | 2063   | 3460   | 8318   | 11112  |
| 80° | 992    | 2083   | 4166   | 8331   | 11406  |
| 85° | 1976   | 4150   | 4150   | 8299   | 10275  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 271934 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.0   | 5.6       |
| 10°-20°   | 147.5  | 14.7      |
| 20°-30°   | 231.7  | 23.0      |
| 30°-40°   | 265.1  | 26.3      |
| 40°-50°   | 213.1  | 21.2      |
| 50°-60°   | 69.3   | 6.9       |
| 60°-70°   | 12.3   | 1.2       |
| 70°-80°   | 8.1    | 0.8       |
| 80°-90°   | 2.9    | 0.3       |
| 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°    | 435.2  | 43.3      |
| 0°-40°    | 700.3  | 69.6      |
| 0°-60°    | 982.6  | 97.7      |
| 0°-90°    | 1006.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1006.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 671  | 671  | 671 | 671  | 671  |      |
| 5°  | 929  | 877  | 654 | 360  | 253  | 88   |
| 15° | 1197 | 929  | 472 | 31   | 30   | 334  |
| 25° | 1310 | 1084 | 175 | 25   | 27   | 610  |
| 35° | 1272 | 982  | 23  | 24   | 28   | 799  |
| 45° | 1114 | 580  | 14  | 24   | 29   | 802  |
| 55° | 170  | 6    | 12  | 24   | 30   | 244  |
| 65° | 5    | 5    | 9   | 20   | 26   | 5    |
| 75° | 2    | 3    | 5   | 12   | 17   | 2    |
| 85° | 1    | 2    | 2   | 4    | 5    | 1    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P1311553

CATALOG NUMBER: LDSQA3D13R659040DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 671.2  | 671.2  | 671.2  | 671.2  | 671.2  | 671.2  | 671.2  | 671.2  | 671.2  | 671.2  | 671.2  |
| 2.5°  | 844.7  | 841.6  | 845.8  | 838.4  | 837.4  | 830.1  | 825.9  | 823.8  | 814.4  | 801.9  | 790.4  |
| 5°    | 929.4  | 916.8  | 920.0  | 918.9  | 913.7  | 910.6  | 906.4  | 901.2  | 888.6  | 877.1  | 862.5  |
| 7.5°  | 944.0  | 933.6  | 935.7  | 936.7  | 933.6  | 932.5  | 931.5  | 929.4  | 921.0  | 910.6  | 898.0  |
| 10°   | 941.9  | 931.5  | 930.4  | 927.3  | 924.2  | 925.2  | 925.2  | 925.2  | 923.1  | 918.9  | 914.8  |
| 12.5° | 1063.2 | 1048.6 | 1045.4 | 1023.5 | 1003.6 | 969.1  | 947.2  | 926.3  | 916.8  | 917.9  | 914.8  |
| 15°   | 1197.0 | 1196.0 | 1185.5 | 1164.6 | 1131.2 | 1099.8 | 1049.6 | 1012.0 | 963.9  | 929.4  | 914.8  |
| 17.5° | 1257.7 | 1256.6 | 1247.2 | 1229.4 | 1205.4 | 1176.1 | 1139.5 | 1095.6 | 1042.3 | 989.0  | 945.1  |
| 20°   | 1286.9 | 1294.3 | 1283.8 | 1269.2 | 1246.2 | 1219.0 | 1184.5 | 1144.8 | 1094.6 | 1040.2 | 987.9  |
| 22.5° | 1291.1 | 1300.5 | 1291.1 | 1280.7 | 1263.9 | 1246.2 | 1216.9 | 1176.1 | 1124.9 | 1072.6 | 1021.4 |
| 25°   | 1309.9 | 1313.1 | 1293.2 | 1279.6 | 1263.9 | 1251.4 | 1228.4 | 1192.8 | 1140.6 | 1084.1 | 1033.9 |
| 27.5° | 1350.7 | 1337.1 | 1295.3 | 1276.5 | 1261.8 | 1250.3 | 1228.4 | 1191.8 | 1135.3 | 1077.8 | 1025.6 |
| 30°   | 1340.3 | 1335.0 | 1298.4 | 1280.7 | 1268.1 | 1256.6 | 1229.4 | 1182.4 | 1114.4 | 1053.8 | 999.4  |
| 32.5° | 1297.4 | 1307.8 | 1295.3 | 1289.0 | 1282.8 | 1268.1 | 1228.4 | 1164.6 | 1088.3 | 1026.6 | 953.4  |
| 35°   | 1272.3 | 1284.8 | 1285.9 | 1285.9 | 1278.6 | 1256.6 | 1209.6 | 1138.5 | 1062.2 | 981.7  | 883.4  |
| 37.5° | 1247.2 | 1257.7 | 1263.9 | 1268.1 | 1257.7 | 1226.3 | 1166.7 | 1102.9 | 1019.3 | 913.7  | 741.2  |
| 40°   | 1219.0 | 1226.3 | 1231.5 | 1233.6 | 1217.9 | 1177.2 | 1122.8 | 1050.7 | 956.6  | 779.9  | 661.8  |
| 42.5° | 1179.3 | 1183.4 | 1182.4 | 1181.3 | 1164.6 | 1119.7 | 1068.4 | 993.2  | 807.1  | 695.2  | 552.0  |
| 45°   | 1114.4 | 1110.3 | 1116.5 | 1116.5 | 1094.6 | 1061.1 | 993.2  | 846.8  | 722.4  | 580.2  | 355.4  |
| 47.5° | 863.5  | 866.7  | 897.0  | 946.1  | 976.4  | 967.0  | 875.0  | 741.2  | 607.4  | 380.5  | 118.1  |
| 50°   | 803.9  | 800.8  | 801.9  | 807.1  | 810.2  | 784.1  | 718.2  | 626.2  | 401.4  | 124.4  | 8.4    |
| 52.5° | 539.4  | 542.6  | 566.6  | 622.0  | 639.8  | 621.0  | 558.3  | 418.2  | 146.4  | 8.4    | 7.3    |
| 55°   | 170.4  | 181.9  | 195.5  | 224.8  | 276.0  | 308.4  | 302.1  | 148.5  | 9.4    | 6.3    | 7.3    |
| 57.5° | 6.3    | 6.3    | 8.4    | 14.6   | 28.2   | 46.0   | 48.1   | 9.4    | 7.3    | 7.3    | 7.3    |
| 60°   | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |
| 62.5° | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 6.3    | 6.3    | 6.3    | 6.3    |
| 65°   | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 6.3    |
| 67.5° | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 70°   | 3.1    | 3.1    | 3.1    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 5.2    |
| 72.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 4.2    | 4.2    | 4.2    |
| 75°   | 2.1    | 2.1    | 2.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 77.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 3.1    | 3.1    | 3.1    |
| 80°   | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 3.1    |
| 82.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 671.2 | 671.2 | 671.2 | 671.2 | 671.2  | 671.2 | 671.2  | 671.2 |
| 2.5°  | 784.1 | 771.5 | 746.4 | 671.2 | 592.8  | 514.4 | 465.2  | 452.7 |
| 5°    | 845.8 | 831.1 | 795.6 | 654.4 | 495.5  | 359.6 | 282.3  | 253.0 |
| 7.5°  | 883.4 | 865.6 | 823.8 | 628.3 | 385.8  | 209.1 | 125.5  | 100.4 |
| 10°   | 900.1 | 884.4 | 837.4 | 588.6 | 279.1  | 99.3  | 43.9   | 36.6  |
| 12.5° | 907.4 | 894.9 | 842.6 | 536.3 | 181.9  | 43.9  | 32.4   | 31.4  |
| 15°   | 910.6 | 897.0 | 840.5 | 472.5 | 103.5  | 31.4  | 30.3   | 30.3  |
| 17.5° | 913.7 | 898.0 | 828.0 | 399.4 | 57.5   | 29.3  | 28.2   | 29.3  |
| 20°   | 938.8 | 893.8 | 806.0 | 319.9 | 37.6   | 27.2  | 27.2   | 28.2  |
| 22.5° | 963.9 | 892.8 | 767.4 | 244.6 | 29.3   | 26.1  | 27.2   | 27.2  |
| 25°   | 972.3 | 882.4 | 718.2 | 174.6 | 25.1   | 25.1  | 26.1   | 27.2  |
| 27.5° | 956.6 | 852.0 | 652.4 | 118.1 | 22.0   | 25.1  | 26.1   | 27.2  |
| 30°   | 920.0 | 800.8 | 572.9 | 75.3  | 20.9   | 24.0  | 26.1   | 27.2  |
| 32.5° | 852.0 | 699.4 | 484.0 | 45.0  | 19.9   | 24.0  | 27.2   | 27.2  |
| 35°   | 716.1 | 586.5 | 383.7 | 23.0  | 19.9   | 24.0  | 27.2   | 28.2  |
| 37.5° | 626.2 | 489.3 | 267.6 | 15.7  | 19.9   | 24.0  | 27.2   | 28.2  |
| 40°   | 519.6 | 353.4 | 111.9 | 14.6  | 19.9   | 24.0  | 27.2   | 29.3  |
| 42.5° | 359.6 | 153.7 | 17.8  | 13.6  | 18.8   | 24.0  | 28.2   | 29.3  |
| 45°   | 129.6 | 19.9  | 8.4   | 13.6  | 18.8   | 24.0  | 28.2   | 29.3  |
| 47.5° | 11.5  | 7.3   | 8.4   | 13.6  | 18.8   | 24.0  | 28.2   | 30.3  |
| 50°   | 7.3   | 7.3   | 7.3   | 12.5  | 18.8   | 24.0  | 28.2   | 30.3  |
| 52.5° | 7.3   | 7.3   | 7.3   | 12.5  | 17.8   | 24.0  | 29.3   | 30.3  |
| 55°   | 7.3   | 7.3   | 7.3   | 11.5  | 17.8   | 24.0  | 28.2   | 30.3  |
| 57.5° | 7.3   | 7.3   | 8.4   | 11.5  | 17.8   | 23.0  | 28.2   | 29.3  |
| 60°   | 7.3   | 7.3   | 7.3   | 11.5  | 16.7   | 22.0  | 27.2   | 28.2  |
| 62.5° | 6.3   | 7.3   | 7.3   | 10.5  | 15.7   | 20.9  | 26.1   | 27.2  |
| 65°   | 6.3   | 6.3   | 7.3   | 9.4   | 14.6   | 19.9  | 24.0   | 26.1  |
| 67.5° | 5.2   | 6.3   | 6.3   | 8.4   | 12.5   | 17.8  | 22.0   | 24.0  |
| 70°   | 5.2   | 5.2   | 5.2   | 7.3   | 11.5   | 15.7  | 20.9   | 22.0  |
| 72.5° | 4.2   | 5.2   | 5.2   | 6.3   | 9.4    | 13.6  | 17.8   | 19.9  |
| 75°   | 4.2   | 4.2   | 4.2   | 5.2   | 8.4    | 12.5  | 15.7   | 16.7  |
| 77.5° | 3.1   | 3.1   | 4.2   | 4.2   | 7.3    | 9.4   | 13.6   | 14.6  |
| 80°   | 3.1   | 3.1   | 3.1   | 4.2   | 5.2    | 8.4   | 10.5   | 11.5  |
| 82.5° | 2.1   | 2.1   | 2.1   | 3.1   | 4.2    | 5.2   | 7.3    | 8.4   |
| 85°   | 2.1   | 2.1   | 2.1   | 2.1   | 3.1    | 4.2   | 5.2    | 5.2   |
| 87.5° | 1.0   | 1.0   | 1.0   | 2.1   | 2.1    | 2.1   | 2.1    | 2.1   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)