

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: P1317697

Luminaire Tested: LDSQA3D17R659827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317697  
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: LDSQA3D17R659827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

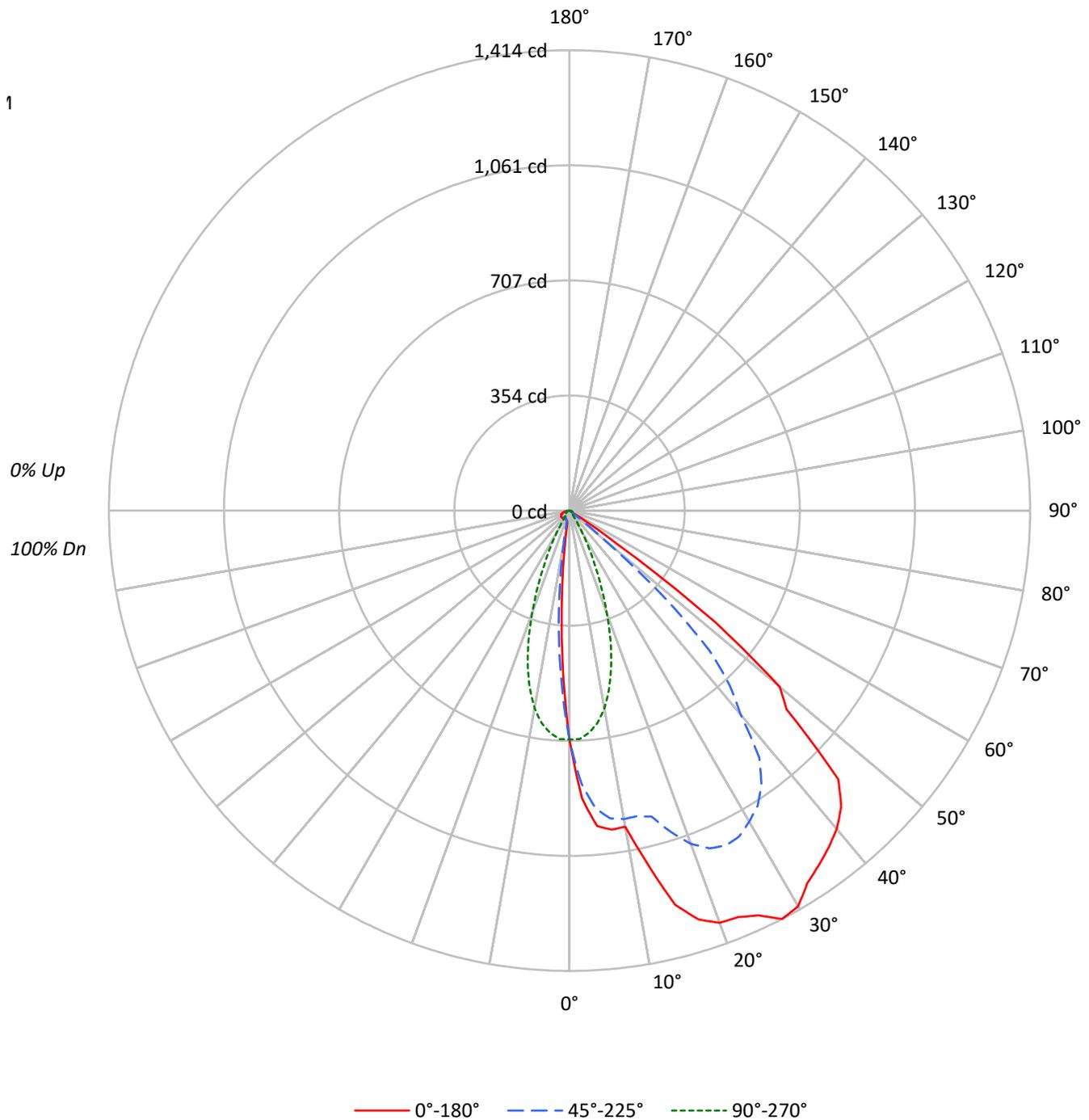
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1053.1 lumens  
Efficiency: N/A  
Efficacy: 51.6 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): 20.4  
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

TEST NUMBER: P1317697  
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### Luminous Intensity Polar Plot





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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 | 109 | 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°  | 120986 | 120986 | 120986 | 120986 | 120986 |
| 5°  | 168178 | 158722 | 118423 | 65072  | 45779  |
| 10° | 172414 | 168217 | 107743 | 18187  | 6698   |
| 15° | 223407 | 173448 | 88186  | 5848   | 5652   |
| 20° | 246890 | 199550 | 61361  | 5223   | 5407   |
| 25° | 260546 | 215642 | 34718  | 4998   | 5416   |
| 30° | 278989 | 219349 | 15671  | 5011   | 5668   |
| 35° | 279983 | 216027 | 5067   | 5298   | 6202   |
| 40° | 286849 | 183521 | 3440   | 5665   | 6880   |
| 45° | 284112 | 147914 | 3459   | 6138   | 7453   |
| 50° | 225464 | 34885  | 3510   | 6752   | 8493   |
| 55° | 53567  | 1982   | 3603   | 7567   | 9518   |
| 60° | 1894   | 2273   | 4133   | 7922   | 10161  |
| 65° | 2241   | 2241   | 3994   | 8476   | 11166  |
| 70° | 1662   | 2216   | 3877   | 8258   | 11582  |
| 75° | 1464   | 2196   | 3660   | 8717   | 11645  |
| 80° | 1091   | 2182   | 4364   | 8728   | 11901  |
| 85° | 2174   | 4347   | 4347   | 8695   | 10868  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 284648 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 58.6   | 5.6       |
| 10°-20°   | 154.4  | 14.7      |
| 20°-30°   | 242.5  | 23.0      |
| 30°-40°   | 277.5  | 26.3      |
| 40°-50°   | 223.0  | 21.2      |
| 50°-60°   | 72.5   | 6.9       |
| 60°-70°   | 12.9   | 1.2       |
| 70°-80°   | 8.5    | 0.8       |
| 80°-90°   | 3.1    | 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°    | 455.6  | 43.3      |
| 0°-40°    | 733.0  | 69.6      |
| 0°-60°    | 1028.6 | 97.7      |
| 0°-90°    | 1053.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1053.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 702  | 702  | 702 | 702  | 702  |      |
| 5°  | 973  | 918  | 685 | 376  | 265  | 92   |
| 15° | 1253 | 973  | 495 | 33   | 32   | 349  |
| 25° | 1371 | 1135 | 183 | 26   | 28   | 639  |
| 35° | 1332 | 1028 | 24  | 25   | 30   | 836  |
| 45° | 1166 | 607  | 14  | 25   | 31   | 839  |
| 55° | 178  | 7    | 12  | 25   | 32   | 255  |
| 65° | 6    | 6    | 10  | 21   | 27   | 5    |
| 75° | 2    | 3    | 6   | 13   | 18   | 3    |
| 85° | 1    | 2    | 2   | 4    | 6    | 1    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 702.5  | 702.5  | 702.5  | 702.5  | 702.5  | 702.5  | 702.5  | 702.5  | 702.5  | 702.5  | 702.5  |
| 2.5°  | 884.2  | 880.9  | 885.3  | 877.6  | 876.5  | 868.9  | 864.5  | 862.3  | 852.4  | 839.3  | 827.3  |
| 5°    | 972.8  | 959.7  | 963.0  | 961.9  | 956.4  | 953.1  | 948.7  | 943.3  | 930.1  | 918.1  | 902.8  |
| 7.5°  | 988.1  | 977.2  | 979.4  | 980.5  | 977.2  | 976.1  | 975.0  | 972.8  | 964.1  | 953.1  | 940.0  |
| 10°   | 985.9  | 975.0  | 973.9  | 970.6  | 967.3  | 968.4  | 968.4  | 968.4  | 966.3  | 961.9  | 957.5  |
| 12.5° | 1112.9 | 1097.6 | 1094.3 | 1071.3 | 1050.5 | 1014.4 | 991.4  | 969.5  | 959.7  | 960.8  | 957.5  |
| 15°   | 1253.0 | 1251.9 | 1240.9 | 1219.0 | 1184.0 | 1151.2 | 1098.7 | 1059.3 | 1008.9 | 972.8  | 957.5  |
| 17.5° | 1316.4 | 1315.3 | 1305.5 | 1286.9 | 1261.7 | 1231.1 | 1192.8 | 1146.8 | 1091.0 | 1035.2 | 989.2  |
| 20°   | 1347.1 | 1354.7 | 1343.8 | 1328.5 | 1304.4 | 1275.9 | 1239.8 | 1198.2 | 1145.7 | 1088.8 | 1034.1 |
| 22.5° | 1351.4 | 1361.3 | 1351.4 | 1340.5 | 1323.0 | 1304.4 | 1273.7 | 1231.1 | 1177.4 | 1122.7 | 1069.1 |
| 25°   | 1371.1 | 1374.4 | 1353.6 | 1339.4 | 1323.0 | 1309.9 | 1285.8 | 1248.6 | 1193.9 | 1134.8 | 1082.2 |
| 27.5° | 1413.8 | 1399.6 | 1355.8 | 1336.1 | 1320.8 | 1308.8 | 1285.8 | 1247.5 | 1188.4 | 1128.2 | 1073.5 |
| 30°   | 1402.9 | 1397.4 | 1359.1 | 1340.5 | 1327.4 | 1315.3 | 1286.9 | 1237.6 | 1166.5 | 1103.0 | 1046.1 |
| 32.5° | 1358.0 | 1368.9 | 1355.8 | 1349.2 | 1342.7 | 1327.4 | 1285.8 | 1219.0 | 1139.1 | 1074.6 | 998.0  |
| 35°   | 1331.7 | 1344.9 | 1346.0 | 1346.0 | 1338.3 | 1315.3 | 1266.1 | 1191.7 | 1111.8 | 1027.5 | 924.7  |
| 37.5° | 1305.5 | 1316.4 | 1323.0 | 1327.4 | 1316.4 | 1283.6 | 1221.2 | 1154.5 | 1066.9 | 956.4  | 775.8  |
| 40°   | 1275.9 | 1283.6 | 1289.1 | 1291.3 | 1274.8 | 1232.2 | 1175.3 | 1099.8 | 1001.3 | 816.3  | 692.7  |
| 42.5° | 1234.3 | 1238.7 | 1237.6 | 1236.5 | 1219.0 | 1172.0 | 1118.4 | 1039.6 | 844.8  | 727.7  | 577.8  |
| 45°   | 1166.5 | 1162.1 | 1168.7 | 1168.7 | 1145.7 | 1110.7 | 1039.6 | 886.4  | 756.1  | 607.3  | 372.1  |
| 47.5° | 903.9  | 907.2  | 938.9  | 990.3  | 1022.1 | 1012.2 | 915.9  | 775.8  | 635.8  | 398.3  | 123.7  |
| 50°   | 841.5  | 838.2  | 839.3  | 844.8  | 848.1  | 820.7  | 751.8  | 655.5  | 420.2  | 130.2  | 8.8    |
| 52.5° | 564.6  | 567.9  | 593.1  | 651.1  | 669.7  | 650.0  | 584.3  | 437.7  | 153.2  | 8.8    | 7.7    |
| 55°   | 178.4  | 190.4  | 204.6  | 235.3  | 288.9  | 322.8  | 316.2  | 155.4  | 9.8    | 6.6    | 7.7    |
| 57.5° | 6.6    | 6.6    | 8.8    | 15.3   | 29.5   | 48.1   | 50.3   | 9.8    | 7.7    | 7.7    | 7.7    |
| 60°   | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 62.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.6    | 6.6    | 6.6    | 6.6    |
| 65°   | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.6    |
| 67.5° | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 5.5    | 5.5    | 5.5    | 5.5    |
| 70°   | 3.3    | 3.3    | 3.3    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 5.5    |
| 72.5° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 4.4    | 4.4    | 4.4    |
| 75°   | 2.2    | 2.2    | 2.2    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 77.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 3.3    | 3.3    | 3.3    |
| 80°   | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 3.3    |
| 82.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    | 2.2    |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 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°    | 702.5  | 702.5 | 702.5 | 702.5 | 702.5  | 702.5 | 702.5  | 702.5 |
| 2.5°  | 820.7  | 807.6 | 781.3 | 702.5 | 620.5  | 538.4 | 487.0  | 473.8 |
| 5°    | 885.3  | 870.0 | 832.7 | 685.0 | 518.7  | 376.4 | 295.5  | 264.8 |
| 7.5°  | 924.7  | 906.1 | 862.3 | 657.7 | 403.8  | 218.9 | 131.3  | 105.1 |
| 10°   | 942.2  | 925.8 | 876.5 | 616.1 | 292.2  | 104.0 | 46.0   | 38.3  |
| 12.5° | 949.8  | 936.7 | 882.0 | 561.4 | 190.4  | 46.0  | 33.9   | 32.8  |
| 15°   | 953.1  | 938.9 | 879.8 | 494.6 | 108.3  | 32.8  | 31.7   | 31.7  |
| 17.5° | 956.4  | 940.0 | 866.7 | 418.0 | 60.2   | 30.6  | 29.5   | 30.6  |
| 20°   | 982.7  | 935.6 | 843.7 | 334.8 | 39.4   | 28.5  | 28.5   | 29.5  |
| 22.5° | 1008.9 | 934.5 | 803.2 | 256.1 | 30.6   | 27.4  | 28.5   | 28.5  |
| 25°   | 1017.7 | 923.6 | 751.8 | 182.7 | 26.3   | 26.3  | 27.4   | 28.5  |
| 27.5° | 1001.3 | 891.8 | 682.8 | 123.7 | 23.0   | 26.3  | 27.4   | 28.5  |
| 30°   | 963.0  | 838.2 | 599.7 | 78.8  | 21.9   | 25.2  | 27.4   | 28.5  |
| 32.5° | 891.8  | 732.1 | 506.7 | 47.1  | 20.8   | 25.2  | 28.5   | 28.5  |
| 35°   | 749.6  | 613.9 | 401.6 | 24.1  | 20.8   | 25.2  | 28.5   | 29.5  |
| 37.5° | 655.5  | 512.1 | 280.1 | 16.4  | 20.8   | 25.2  | 28.5   | 29.5  |
| 40°   | 543.9  | 369.9 | 117.1 | 15.3  | 20.8   | 25.2  | 28.5   | 30.6  |
| 42.5° | 376.4  | 160.9 | 18.6  | 14.2  | 19.7   | 25.2  | 29.5   | 30.6  |
| 45°   | 135.7  | 20.8  | 8.8   | 14.2  | 19.7   | 25.2  | 29.5   | 30.6  |
| 47.5° | 12.0   | 7.7   | 8.8   | 14.2  | 19.7   | 25.2  | 29.5   | 31.7  |
| 50°   | 7.7    | 7.7   | 7.7   | 13.1  | 19.7   | 25.2  | 29.5   | 31.7  |
| 52.5° | 7.7    | 7.7   | 7.7   | 13.1  | 18.6   | 25.2  | 30.6   | 31.7  |
| 55°   | 7.7    | 7.7   | 7.7   | 12.0  | 18.6   | 25.2  | 29.5   | 31.7  |
| 57.5° | 7.7    | 7.7   | 8.8   | 12.0  | 18.6   | 24.1  | 29.5   | 30.6  |
| 60°   | 7.7    | 7.7   | 7.7   | 12.0  | 17.5   | 23.0  | 28.5   | 29.5  |
| 62.5° | 6.6    | 7.7   | 7.7   | 10.9  | 16.4   | 21.9  | 27.4   | 28.5  |
| 65°   | 6.6    | 6.6   | 7.7   | 9.8   | 15.3   | 20.8  | 25.2   | 27.4  |
| 67.5° | 5.5    | 6.6   | 6.6   | 8.8   | 13.1   | 18.6  | 23.0   | 25.2  |
| 70°   | 5.5    | 5.5   | 5.5   | 7.7   | 12.0   | 16.4  | 21.9   | 23.0  |
| 72.5° | 4.4    | 5.5   | 5.5   | 6.6   | 9.8    | 14.2  | 18.6   | 20.8  |
| 75°   | 4.4    | 4.4   | 4.4   | 5.5   | 8.8    | 13.1  | 16.4   | 17.5  |
| 77.5° | 3.3    | 3.3   | 4.4   | 4.4   | 7.7    | 9.8   | 14.2   | 15.3  |
| 80°   | 3.3    | 3.3   | 3.3   | 4.4   | 5.5    | 8.8   | 10.9   | 12.0  |
| 82.5° | 2.2    | 2.2   | 2.2   | 3.3   | 4.4    | 5.5   | 7.7    | 8.8   |
| 85°   | 2.2    | 2.2   | 2.2   | 2.2   | 3.3    | 4.4   | 5.5    | 5.5   |
| 87.5° | 1.1    | 1.1   | 1.1   | 2.2   | 2.2    | 2.2   | 2.2    | 2.2   |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)