

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: P1308183

Luminaire Tested: LDSQA3D13R559027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R559027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

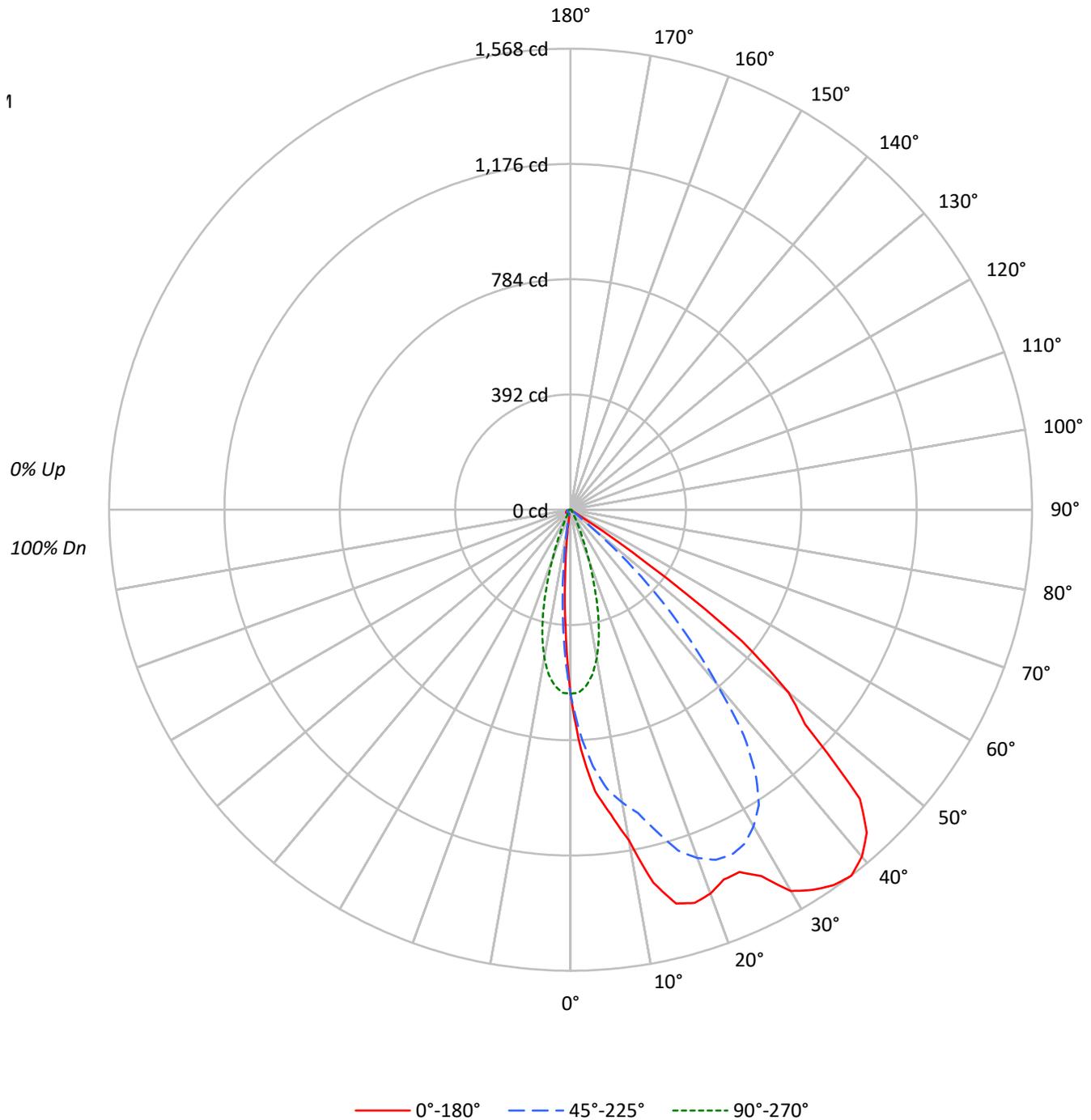
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1044.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 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 (Ain): 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





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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 | 100 | 100 | 100 | 100 |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  | 91  | 91  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 86  | 83  | 81  | 81  | 81  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  | 73  | 73  | 73  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  | 65  | 65  | 65  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  | 59  | 59  | 59  |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 59  | 55  | 63  | 59  | 55  | 53  | 53  | 53  | 53  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  | 48  | 48  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  | 44  | 44  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 40  | 40  | 40  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  | 37  | 37  | 37  |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 107760 | 107760 | 107760 | 107760 | 107760 |
| 5°  | 166190 | 151288 | 104109 | 53455  | 35112  |
| 10° | 199660 | 176838 | 89608  | 13483  | 5386   |
| 15° | 247228 | 201958 | 64027  | 3726   | 2906   |
| 20° | 254625 | 231019 | 33081  | 2493   | 2493   |
| 25° | 258322 | 246085 | 13264  | 2242   | 2584   |
| 30° | 297742 | 247250 | 5767   | 2347   | 2705   |
| 35° | 327751 | 230513 | 2481   | 2481   | 3049   |
| 40° | 346201 | 173494 | 1416   | 2855   | 3260   |
| 45° | 338597 | 106021 | 1315   | 3093   | 3970   |
| 50° | 259009 | 22587  | 1447   | 3644   | 4608   |
| 55° | 95033  | 811    | 1621   | 4084   | 5164   |
| 60° | 930    | 930    | 1860   | 4684   | 5924   |
| 65° | 1100   | 1100   | 2201   | 4809   | 6276   |
| 70° | 906    | 1360   | 2266   | 5489   | 7301   |
| 75° | 599    | 1198   | 2396   | 6055   | 8451   |
| 80° | 893    | 1785   | 2678   | 6248   | 9025   |
| 85° | 0      | 1778   | 3557   | 7114   | 8892   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 338597 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.1   | 5.3       |
| 10°-20°   | 157.8  | 15.1      |
| 20°-30°   | 242.0  | 23.2      |
| 30°-40°   | 282.0  | 27.0      |
| 40°-50°   | 225.3  | 21.6      |
| 50°-60°   | 66.7   | 6.4       |
| 60°-70°   | 7.1    | 0.7       |
| 70°-80°   | 5.6    | 0.5       |
| 80°-90°   | 2.4    | 0.2       |
| 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°    | 454.8  | 43.6      |
| 0°-40°    | 736.8  | 70.6      |
| 0°-60°    | 1028.9 | 98.6      |
| 0°-90°    | 1044.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1044.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 626  | 626  | 626 | 626  | 626  |      |
| 5°  | 961  | 875  | 602 | 309  | 203  | 96   |
| 15° | 1387 | 1133 | 359 | 21   | 16   | 383  |
| 25° | 1359 | 1295 | 70  | 12   | 14   | 646  |
| 35° | 1559 | 1096 | 12  | 12   | 14   | 971  |
| 45° | 1390 | 435  | 5   | 13   | 16   | 1002 |
| 55° | 316  | 3    | 5   | 14   | 17   | 335  |
| 65° | 3    | 3    | 5   | 12   | 15   | 2    |
| 75° | 1    | 2    | 4   | 9    | 13   | 1    |
| 85° | 0    | 1    | 2   | 4    | 4    | 0    |
| 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°    | 625.7  | 625.7  | 625.7  | 625.7  | 625.7  | 625.7  | 625.7  | 625.7  | 625.7  | 625.7  | 625.7  |
| 2.5°  | 816.2  | 816.2  | 813.5  | 814.4  | 812.6  | 802.6  | 800.8  | 788.1  | 777.2  | 765.4  | 755.4  |
| 5°    | 961.3  | 963.1  | 960.4  | 954.9  | 947.7  | 940.4  | 925.0  | 913.2  | 897.8  | 875.1  | 854.3  |
| 7.5°  | 1043.8 | 1042.0 | 1037.5 | 1035.6 | 1031.1 | 1022.9 | 1012.1 | 999.4  | 981.2  | 958.6  | 934.1  |
| 10°   | 1141.7 | 1126.3 | 1121.8 | 1114.5 | 1100.0 | 1083.7 | 1064.7 | 1047.4 | 1032.0 | 1011.2 | 984.9  |
| 12.5° | 1299.5 | 1296.8 | 1278.7 | 1265.1 | 1245.1 | 1208.9 | 1176.2 | 1138.1 | 1092.8 | 1056.5 | 1022.0 |
| 15°   | 1386.6 | 1388.4 | 1380.3 | 1369.4 | 1356.7 | 1326.7 | 1294.1 | 1249.7 | 1196.2 | 1132.7 | 1076.5 |
| 17.5° | 1402.0 | 1404.7 | 1400.2 | 1395.7 | 1392.0 | 1374.8 | 1354.9 | 1323.1 | 1274.1 | 1215.2 | 1131.8 |
| 20°   | 1389.3 | 1394.8 | 1395.7 | 1401.1 | 1408.4 | 1401.1 | 1384.8 | 1363.0 | 1322.2 | 1260.5 | 1180.7 |
| 22.5° | 1361.2 | 1371.2 | 1378.4 | 1397.5 | 1416.5 | 1416.5 | 1406.5 | 1389.3 | 1349.4 | 1288.7 | 1207.0 |
| 25°   | 1359.4 | 1361.2 | 1363.9 | 1394.8 | 1424.7 | 1431.0 | 1422.0 | 1403.8 | 1360.3 | 1295.0 | 1206.1 |
| 27.5° | 1404.7 | 1392.9 | 1374.8 | 1405.6 | 1441.0 | 1446.5 | 1433.8 | 1409.3 | 1357.6 | 1280.5 | 1175.3 |
| 30°   | 1497.2 | 1470.9 | 1432.8 | 1455.5 | 1480.0 | 1473.7 | 1448.3 | 1409.3 | 1339.4 | 1243.3 | 1117.3 |
| 32.5° | 1532.6 | 1518.1 | 1504.5 | 1529.0 | 1533.5 | 1507.2 | 1461.9 | 1403.8 | 1310.4 | 1190.7 | 1022.0 |
| 35°   | 1558.9 | 1559.8 | 1554.4 | 1558.9 | 1537.1 | 1500.0 | 1450.1 | 1373.9 | 1256.0 | 1096.4 | 896.0  |
| 37.5° | 1568.0 | 1569.8 | 1558.0 | 1541.7 | 1509.0 | 1466.4 | 1406.5 | 1319.5 | 1165.3 | 966.7  | 705.5  |
| 40°   | 1539.9 | 1534.4 | 1515.4 | 1492.7 | 1457.3 | 1413.8 | 1348.5 | 1218.8 | 1030.2 | 771.7  | 550.5  |
| 42.5° | 1490.0 | 1480.9 | 1458.2 | 1431.0 | 1393.9 | 1338.5 | 1234.2 | 1077.4 | 837.0  | 602.2  | 385.4  |
| 45°   | 1390.2 | 1383.9 | 1355.8 | 1335.8 | 1291.4 | 1219.7 | 1085.5 | 887.8  | 647.5  | 435.3  | 223.1  |
| 47.5° | 1080.1 | 1081.0 | 1102.7 | 1112.7 | 1097.3 | 1040.2 | 882.4  | 674.7  | 472.5  | 259.4  | 75.3   |
| 50°   | 966.7  | 962.2  | 940.4  | 910.5  | 860.6  | 775.4  | 647.5  | 477.0  | 279.3  | 84.3   | 10.9   |
| 52.5° | 733.7  | 733.7  | 722.8  | 707.4  | 654.8  | 572.2  | 438.0  | 263.9  | 97.9   | 14.5   | 2.7    |
| 55°   | 316.5  | 300.2  | 309.2  | 326.5  | 312.9  | 272.1  | 205.0  | 78.9   | 17.2   | 2.7    | 2.7    |
| 57.5° | 4.5    | 10.9   | 16.3   | 26.3   | 35.4   | 42.6   | 22.7   | 8.2    | 2.7    | 2.7    | 2.7    |
| 60°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 62.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 65°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 67.5° | 1.8    | 1.8    | 1.8    | 2.7    | 1.8    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 70°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 2.7    | 2.7    |
| 72.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 75°   | 0.9    | 0.9    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 77.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 80°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 1.8    | 1.8    |
| 82.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.8    | 1.8    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 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°    | 625.7  | 625.7 | 625.7 | 625.7 | 625.7  | 625.7 | 625.7  | 625.7 |
| 2.5°  | 740.9  | 725.5 | 700.1 | 623.0 | 543.2  | 469.8 | 417.2  | 397.2 |
| 5°    | 830.7  | 802.6 | 760.0 | 602.2 | 443.5  | 309.2 | 233.1  | 203.1 |
| 7.5°  | 901.4  | 865.2 | 803.5 | 565.9 | 325.6  | 165.0 | 98.8   | 78.0  |
| 10°   | 948.6  | 908.7 | 828.0 | 512.4 | 215.8  | 77.1  | 37.2   | 30.8  |
| 12.5° | 983.0  | 933.2 | 837.0 | 443.5 | 127.0  | 35.4  | 20.0   | 18.1  |
| 15°   | 1008.4 | 944.0 | 826.2 | 359.1 | 69.8   | 20.9  | 16.3   | 16.3  |
| 17.5° | 1043.8 | 949.5 | 799.9 | 264.8 | 39.9   | 15.4  | 15.4   | 15.4  |
| 20°   | 1071.0 | 949.5 | 750.0 | 180.5 | 24.5   | 13.6  | 13.6   | 13.6  |
| 22.5° | 1084.6 | 935.0 | 689.2 | 114.3 | 17.2   | 12.7  | 13.6   | 13.6  |
| 25°   | 1071.0 | 899.6 | 611.2 | 69.8  | 13.6   | 11.8  | 12.7   | 13.6  |
| 27.5° | 1021.1 | 828.9 | 506.9 | 44.4  | 10.9   | 11.8  | 12.7   | 13.6  |
| 30°   | 937.7  | 726.4 | 389.0 | 29.0  | 10.0   | 11.8  | 12.7   | 13.6  |
| 32.5° | 819.8  | 574.0 | 252.1 | 19.0  | 9.1    | 11.8  | 12.7   | 13.6  |
| 35°   | 640.2  | 406.3 | 152.4 | 11.8  | 9.1    | 11.8  | 13.6   | 14.5  |
| 37.5° | 479.7  | 271.2 | 82.5  | 7.3   | 9.1    | 11.8  | 13.6   | 14.5  |
| 40°   | 332.8  | 157.8 | 35.4  | 6.3   | 9.1    | 12.7  | 14.5   | 14.5  |
| 42.5° | 193.2  | 62.6  | 9.1   | 5.4   | 9.1    | 12.7  | 14.5   | 15.4  |
| 45°   | 70.7   | 12.7  | 2.7   | 5.4   | 10.0   | 12.7  | 14.5   | 16.3  |
| 47.5° | 10.0   | 2.7   | 2.7   | 5.4   | 10.0   | 12.7  | 15.4   | 16.3  |
| 50°   | 2.7    | 2.7   | 2.7   | 5.4   | 10.0   | 13.6  | 16.3   | 17.2  |
| 52.5° | 2.7    | 2.7   | 2.7   | 5.4   | 10.0   | 13.6  | 16.3   | 17.2  |
| 55°   | 2.7    | 2.7   | 2.7   | 5.4   | 10.0   | 13.6  | 16.3   | 17.2  |
| 57.5° | 2.7    | 2.7   | 2.7   | 5.4   | 10.0   | 13.6  | 16.3   | 17.2  |
| 60°   | 2.7    | 2.7   | 2.7   | 5.4   | 9.1    | 13.6  | 16.3   | 17.2  |
| 62.5° | 2.7    | 2.7   | 2.7   | 5.4   | 9.1    | 12.7  | 15.4   | 16.3  |
| 65°   | 2.7    | 2.7   | 2.7   | 5.4   | 8.2    | 11.8  | 15.4   | 15.4  |
| 67.5° | 2.7    | 2.7   | 2.7   | 4.5   | 8.2    | 11.8  | 14.5   | 15.4  |
| 70°   | 2.7    | 2.7   | 2.7   | 4.5   | 7.3    | 10.9  | 13.6   | 14.5  |
| 72.5° | 2.7    | 2.7   | 2.7   | 3.6   | 6.3    | 10.0  | 12.7   | 13.6  |
| 75°   | 1.8    | 2.7   | 2.7   | 3.6   | 6.3    | 9.1   | 11.8   | 12.7  |
| 77.5° | 1.8    | 2.7   | 2.7   | 2.7   | 5.4    | 7.3   | 10.0   | 10.9  |
| 80°   | 1.8    | 1.8   | 2.7   | 2.7   | 4.5    | 6.3   | 8.2    | 9.1   |
| 82.5° | 1.8    | 1.8   | 1.8   | 2.7   | 3.6    | 4.5   | 6.3    | 6.3   |
| 85°   | 1.8    | 1.8   | 1.8   | 1.8   | 2.7    | 3.6   | 4.5    | 4.5   |
| 87.5° | 0.9    | 0.9   | 1.8   | 1.8   | 1.8    | 1.8   | 1.8    | 1.8   |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)