

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: P1310596

Luminaire Tested: LDSQA3D17R709035DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

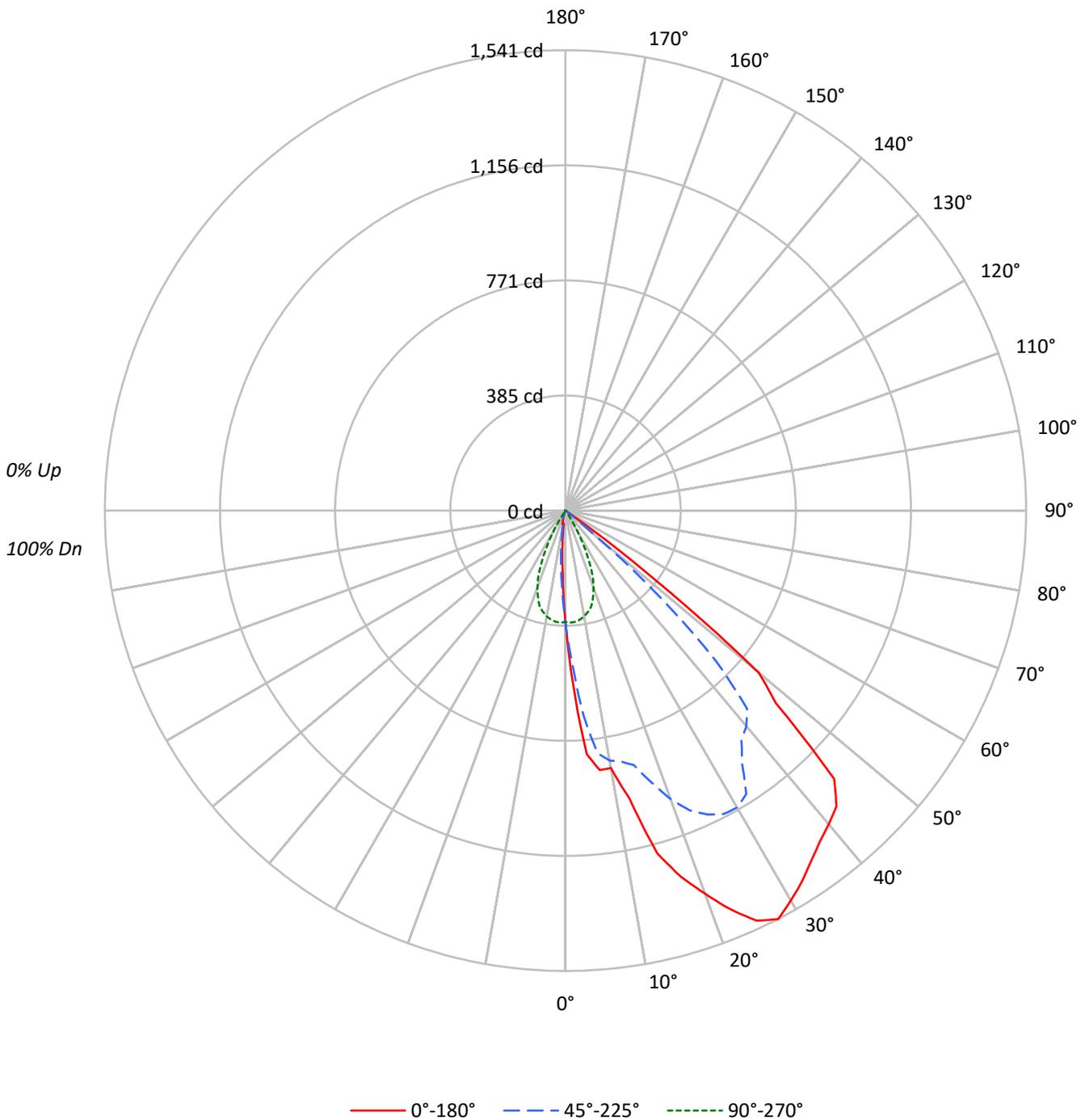
Test Method: LM-79-2019  
Report Number: P1310596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709035DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1003.0 lumens  
Efficiency: N/A  
Efficacy: 47.3 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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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CATALOG NUMBER: LDSQA3D17R709035DE010 3LSQCA30R 1MB

### 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 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 96  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 88  | 86  | 84  | 82  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 81  | 78  | 75  | 73  |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 75  | 71  | 67  | 66  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 55  | 63  | 58  | 55  | 53  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 58  | 53  | 49  | 48  |
| 8   | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 49  | 45  | 43  |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 50  | 45  | 41  | 39  |
| 10  | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 46  | 41  | 37  | 36  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 64101  | 64101  | 64101 | 64101 | 64101 |
| 5°  | 141434 | 118682 | 64605 | 29355 | 19328 |
| 10° | 152967 | 148508 | 62869 | 8167  | 8412  |
| 15° | 211729 | 157223 | 59302 | 8327  | 6062  |
| 20° | 250061 | 188334 | 50327 | 4930  | 1814  |
| 25° | 287795 | 213286 | 35497 | 798   | 0     |
| 30° | 299770 | 228278 | 16327 | 0     | 0     |
| 35° | 301155 | 216342 | 883   | 0     | 0     |
| 40° | 308027 | 211601 | 0     | 0     | 0     |
| 45° | 309564 | 173390 | 0     | 0     | 0     |
| 50° | 226026 | 36037  | 0     | 0     | 0     |
| 55° | 12761  | 0      | 0     | 0     | 0     |
| 60° | 0      | 482    | 482   | 0     | 0     |
| 65° | 0      | 0      | 571   | 0     | 0     |
| 70° | 0      | 705    | 705   | 0     | 0     |
| 75° | 0      | 932    | 932   | 0     | 0     |
| 80° | 0      | 1389   | 1389  | 1389  | 0     |
| 85° | 0      | 2766   | 2766  | 2766  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 315434 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.7   | 4.1       |
| 10°-20°   | 136.0  | 13.6      |
| 20°-30°   | 244.4  | 24.4      |
| 30°-40°   | 297.2  | 29.6      |
| 40°-50°   | 229.5  | 22.9      |
| 50°-60°   | 53.4   | 5.3       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.8    | 0.1       |
| 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°    | 421.1  | 42.0      |
| 0°-40°    | 718.3  | 71.6      |
| 0°-60°    | 1001.1 | 99.8      |
| 0°-90°    | 1003.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1003.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 372  | 372  | 372 | 372  | 372  |      |
| 5°  | 818  | 686  | 374 | 170  | 112  | 77   |
| 15° | 1188 | 882  | 333 | 47   | 34   | 332  |
| 25° | 1514 | 1122 | 187 | 4    | 0    | 689  |
| 35° | 1432 | 1029 | 4   | 0    | 0    | 900  |
| 45° | 1271 | 712  | 0   | 0    | 0    | 898  |
| 55° | 42   | 0    | 0   | 0    | 0    | 174  |
| 65° | 0    | 0    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 1   | 0    | 0    | 0    |
| 85° | 0    | 1    | 1   | 1    | 0    | 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°    | 372.2  | 372.2  | 372.2  | 372.2  | 372.2  | 372.2  | 372.2  | 372.2  | 372.2  | 372.2  | 372.2  |
| 2.5°  | 580.3  | 580.3  | 583.1  | 581.7  | 569.0  | 563.3  | 544.9  | 535.0  | 532.2  | 509.5  | 501.0  |
| 5°    | 818.1  | 819.5  | 812.4  | 811.0  | 796.9  | 787.0  | 771.4  | 747.3  | 723.3  | 686.5  | 653.9  |
| 7.5°  | 876.1  | 874.7  | 873.3  | 873.3  | 870.5  | 864.8  | 857.7  | 850.7  | 840.7  | 818.1  | 792.6  |
| 10°   | 874.7  | 874.7  | 873.3  | 873.3  | 871.9  | 873.3  | 871.9  | 867.6  | 863.4  | 849.2  | 835.1  |
| 12.5° | 985.1  | 976.6  | 965.3  | 948.3  | 920.0  | 898.8  | 874.7  | 867.6  | 864.8  | 860.6  | 852.1  |
| 15°   | 1187.5 | 1180.4 | 1156.4 | 1126.7 | 1098.3 | 1050.2 | 1012.0 | 959.6  | 918.6  | 881.8  | 863.4  |
| 17.5° | 1285.2 | 1289.4 | 1262.5 | 1244.1 | 1217.2 | 1179.0 | 1133.7 | 1079.9 | 1021.9 | 952.6  | 897.4  |
| 20°   | 1364.4 | 1368.7 | 1346.0 | 1327.6 | 1296.5 | 1256.9 | 1217.2 | 1159.2 | 1104.0 | 1027.6 | 955.4  |
| 22.5° | 1445.1 | 1447.9 | 1426.7 | 1399.8 | 1364.4 | 1323.4 | 1272.4 | 1213.0 | 1153.5 | 1085.6 | 1009.2 |
| 25°   | 1514.5 | 1511.6 | 1476.3 | 1438.0 | 1404.1 | 1360.2 | 1310.7 | 1252.6 | 1196.0 | 1122.4 | 1050.2 |
| 27.5° | 1541.4 | 1539.9 | 1500.3 | 1463.5 | 1423.9 | 1364.4 | 1320.6 | 1269.6 | 1210.2 | 1145.1 | 1071.5 |
| 30°   | 1507.4 | 1530.0 | 1504.6 | 1477.7 | 1429.5 | 1370.1 | 1327.6 | 1266.8 | 1211.6 | 1147.9 | 1064.4 |
| 32.5° | 1472.0 | 1500.3 | 1491.8 | 1479.1 | 1422.5 | 1375.8 | 1320.6 | 1263.9 | 1198.8 | 1125.2 | 997.9  |
| 35°   | 1432.4 | 1462.1 | 1463.5 | 1449.4 | 1398.4 | 1351.7 | 1300.7 | 1241.3 | 1167.7 | 1029.0 | 935.6  |
| 37.5° | 1397.0 | 1425.3 | 1433.8 | 1404.1 | 1364.4 | 1302.2 | 1255.5 | 1193.2 | 1060.1 | 966.7  | 918.6  |
| 40°   | 1370.1 | 1391.3 | 1404.1 | 1357.4 | 1317.7 | 1256.9 | 1203.1 | 1094.1 | 973.8  | 941.2  | 873.3  |
| 42.5° | 1341.8 | 1361.6 | 1367.3 | 1316.3 | 1255.5 | 1197.4 | 1119.6 | 982.3  | 946.9  | 898.8  | 716.2  |
| 45°   | 1271.0 | 1295.1 | 1280.9 | 1231.4 | 1186.1 | 1125.2 | 1009.2 | 949.7  | 911.5  | 711.9  | 440.2  |
| 47.5° | 954.0  | 980.9  | 1019.1 | 1033.2 | 1048.8 | 1004.9 | 941.2  | 920.0  | 748.7  | 431.7  | 137.3  |
| 50°   | 843.6  | 839.3  | 839.3  | 846.4  | 859.1  | 873.3  | 891.7  | 775.6  | 450.1  | 134.5  | 0.0    |
| 52.5° | 343.9  | 360.9  | 444.4  | 519.4  | 605.8  | 692.1  | 719.0  | 475.6  | 175.5  | 2.8    | 0.0    |
| 55°   | 42.5   | 42.5   | 59.4   | 101.9  | 168.4  | 271.8  | 305.7  | 152.9  | 12.7   | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.4    | 11.3   | 31.1   | 21.2   | 5.7    | 1.4    | 1.4    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 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°    | 372.2 | 372.2 | 372.2 | 372.2 | 372.2  | 372.2 | 372.2  | 372.2 |
| 2.5°  | 486.9 | 469.9 | 445.8 | 375.1 | 314.2  | 260.4 | 229.3  | 213.7 |
| 5°    | 622.8 | 581.7 | 526.5 | 373.7 | 254.8  | 169.8 | 127.4  | 111.8 |
| 7.5°  | 753.0 | 706.3 | 612.9 | 368.0 | 195.3  | 99.1  | 55.2   | 43.9  |
| 10°   | 809.6 | 775.6 | 692.1 | 359.5 | 141.5  | 46.7  | 46.7   | 48.1  |
| 12.5° | 832.3 | 806.8 | 738.8 | 346.8 | 93.4   | 45.3  | 48.1   | 45.3  |
| 15°   | 847.8 | 823.8 | 761.5 | 332.6 | 53.8   | 46.7  | 38.2   | 34.0  |
| 17.5° | 856.3 | 828.0 | 768.6 | 305.7 | 35.4   | 39.6  | 24.1   | 19.8  |
| 20°   | 883.2 | 837.9 | 774.2 | 274.6 | 34.0   | 26.9  | 12.7   | 9.9   |
| 22.5° | 928.5 | 857.7 | 775.6 | 236.4 | 26.9   | 15.6  | 4.2    | 0.0   |
| 25°   | 969.5 | 884.6 | 779.9 | 186.8 | 8.5    | 4.2   | 0.0    | 0.0   |
| 27.5° | 989.4 | 893.1 | 778.5 | 131.6 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 965.3 | 871.9 | 765.7 | 82.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 908.7 | 856.3 | 726.1 | 35.4  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 890.3 | 822.3 | 635.5 | 4.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 849.2 | 724.7 | 467.1 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 730.3 | 523.7 | 222.2 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 482.6 | 223.6 | 12.7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 169.8 | 14.2  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 2.8   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 1.4   | 1.4   | 1.4   | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.0   | 0.0   | 1.4   | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.4   | 1.4   | 1.4   | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 82.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 85°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 87.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)