

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: P1319453

Luminaire Tested: LDSQA3D17R709835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319453  
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: LDSQA3D17R709835DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

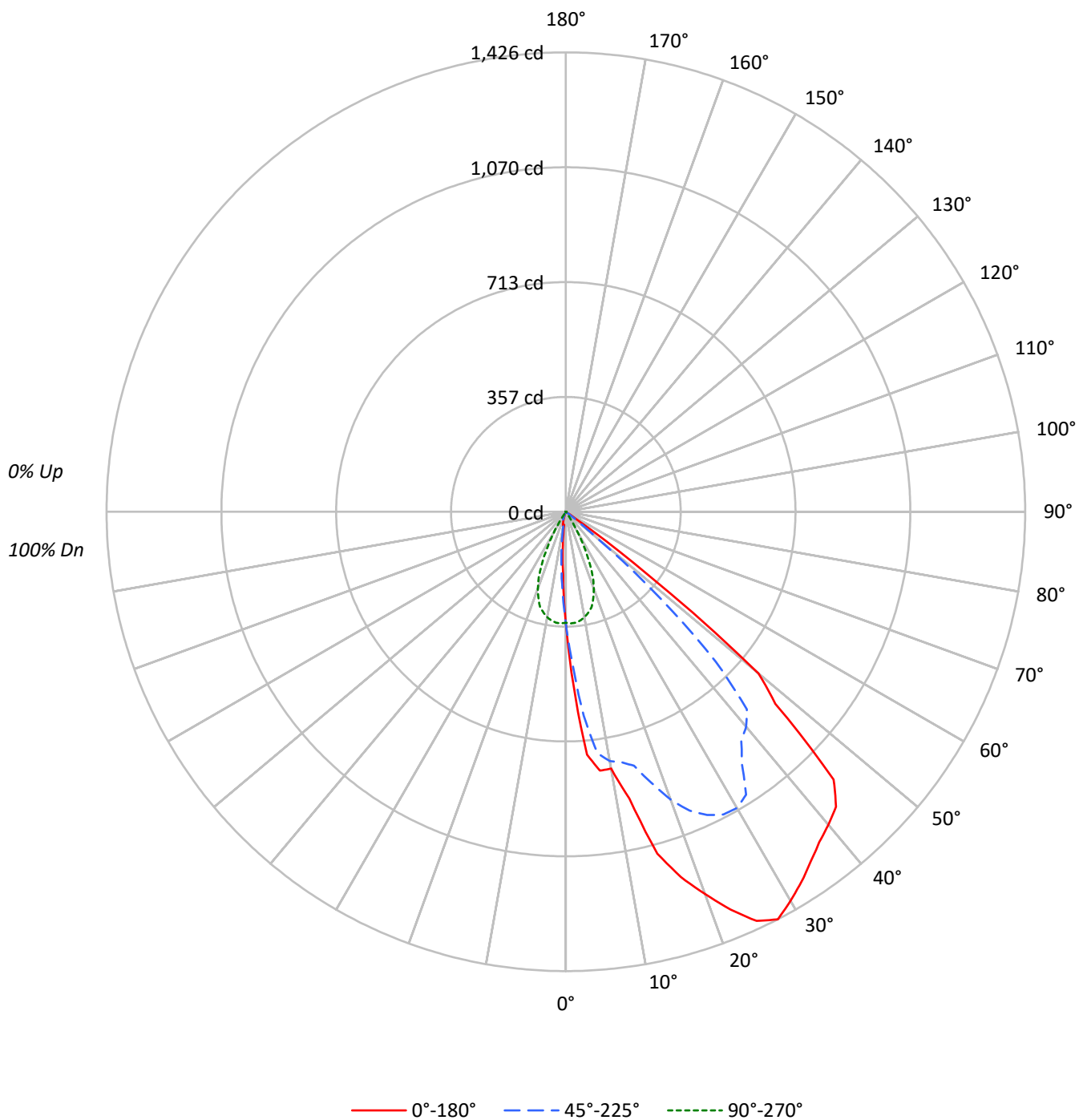
Lumens per Lamp: N/A  
Luminaire Lumens: 928.0 lumens  
Efficiency: N/A  
Efficacy: 45.5 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 66  |    |    |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 55  | 53  |    |    |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |
| 8   | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |
| 10  | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 59313  | 59313  | 59313 | 59313 | 59313 |
| 5°  | 130853 | 109796 | 59765 | 27160 | 17893 |
| 10° | 141530 | 137403 | 58165 | 7555  | 7782  |
| 15° | 195896 | 145473 | 54862 | 7702  | 5599  |
| 20° | 231367 | 174240 | 46570 | 4564  | 1686  |
| 25° | 266265 | 197343 | 32856 | 741   | 0     |
| 30° | 277358 | 211215 | 15114 | 0     | 0     |
| 35° | 278638 | 200153 | 820   | 0     | 0     |
| 40° | 285005 | 195796 | 0     | 0     | 0     |
| 45° | 286426 | 160433 | 0     | 0     | 0     |
| 50° | 209120 | 33331  | 0     | 0     | 0     |
| 55° | 11800  | 0      | 0     | 0     | 0     |
| 60° | 0      | 448    | 448   | 0     | 0     |
| 65° | 0      | 0      | 530   | 0     | 0     |
| 70° | 0      | 655    | 655   | 0     | 0     |
| 75° | 0      | 865    | 865   | 0     | 0     |
| 80° | 0      | 1289   | 1289  | 1289  | 0     |
| 85° | 0      | 2569   | 2569  | 2569  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 291833 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.7   | 4.1       |
| 10°-20°   | 125.8  | 13.6      |
| 20°-30°   | 226.2  | 24.4      |
| 30°-40°   | 274.9  | 29.6      |
| 40°-50°   | 212.3  | 22.9      |
| 50°-60°   | 49.4   | 5.3       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.7    | 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°    | 389.7  | 42.0      |
| 0°-40°    | 664.6  | 71.6      |
| 0°-60°    | 926.3  | 99.8      |
| 0°-90°    | 928.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 928.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 344  | 344  | 344 | 344  | 344  |      |
| 5°  | 757  | 635  | 346 | 157  | 104  | 71   |
| 15° | 1099 | 816  | 308 | 43   | 31   | 307  |
| 25° | 1401 | 1038 | 173 | 4    | 0    | 638  |
| 35° | 1325 | 952  | 4   | 0    | 0    | 832  |
| 45° | 1176 | 659  | 0   | 0    | 0    | 831  |
| 55° | 39   | 0    | 0   | 0    | 0    | 161  |
| 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°    | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4 |
| 2.5°  | 536.9  | 536.9  | 539.5  | 538.2  | 526.4  | 521.2  | 504.2  | 495.0  | 492.4  | 471.4  | 463.6 |
| 5°    | 756.9  | 758.2  | 751.7  | 750.4  | 737.3  | 728.1  | 713.7  | 691.4  | 669.2  | 635.1  | 605.0 |
| 7.5°  | 810.6  | 809.3  | 808.0  | 808.0  | 805.4  | 800.1  | 793.6  | 787.0  | 777.9  | 756.9  | 733.4 |
| 10°   | 809.3  | 809.3  | 808.0  | 808.0  | 806.7  | 808.0  | 806.7  | 802.8  | 798.8  | 785.7  | 772.6 |
| 12.5° | 911.5  | 903.6  | 893.1  | 877.4  | 851.2  | 831.6  | 809.3  | 802.8  | 800.1  | 796.2  | 788.4 |
| 15°   | 1098.7 | 1092.2 | 1069.9 | 1042.4 | 1016.2 | 971.7  | 936.3  | 887.9  | 849.9  | 815.9  | 798.8 |
| 17.5° | 1189.1 | 1193.0 | 1168.1 | 1151.1 | 1126.2 | 1090.9 | 1049.0 | 999.2  | 945.5  | 881.3  | 830.3 |
| 20°   | 1262.4 | 1266.3 | 1245.4 | 1228.4 | 1199.6 | 1162.9 | 1126.2 | 1072.5 | 1021.5 | 950.7  | 884.0 |
| 22.5° | 1337.1 | 1339.7 | 1320.0 | 1295.2 | 1262.4 | 1224.4 | 1177.3 | 1122.3 | 1067.3 | 1004.4 | 933.7 |
| 25°   | 1401.2 | 1398.6 | 1365.9 | 1330.5 | 1299.1 | 1258.5 | 1212.6 | 1159.0 | 1106.6 | 1038.5 | 971.7 |
| 27.5° | 1426.1 | 1424.8 | 1388.1 | 1354.1 | 1317.4 | 1262.4 | 1221.8 | 1174.7 | 1119.7 | 1059.4 | 991.3 |
| 30°   | 1394.7 | 1415.6 | 1392.1 | 1367.2 | 1322.7 | 1267.7 | 1228.4 | 1172.1 | 1121.0 | 1062.1 | 984.8 |
| 32.5° | 1361.9 | 1388.1 | 1380.3 | 1368.5 | 1316.1 | 1272.9 | 1221.8 | 1169.4 | 1109.2 | 1041.1 | 923.2 |
| 35°   | 1325.3 | 1352.8 | 1354.1 | 1341.0 | 1293.8 | 1250.6 | 1203.5 | 1148.5 | 1080.4 | 952.0  | 865.6 |
| 37.5° | 1292.5 | 1318.7 | 1326.6 | 1299.1 | 1262.4 | 1204.8 | 1161.6 | 1104.0 | 980.9  | 894.4  | 849.9 |
| 40°   | 1267.7 | 1287.3 | 1299.1 | 1255.9 | 1219.2 | 1162.9 | 1113.1 | 1012.3 | 901.0  | 870.9  | 808.0 |
| 42.5° | 1241.5 | 1259.8 | 1265.0 | 1217.9 | 1161.6 | 1107.9 | 1035.9 | 908.8  | 876.1  | 831.6  | 662.6 |
| 45°   | 1176.0 | 1198.2 | 1185.1 | 1139.3 | 1097.4 | 1041.1 | 933.7  | 878.7  | 843.4  | 658.7  | 407.3 |
| 47.5° | 882.6  | 907.5  | 942.9  | 956.0  | 970.4  | 929.8  | 870.9  | 851.2  | 692.8  | 399.4  | 127.0 |
| 50°   | 780.5  | 776.6  | 776.6  | 783.1  | 794.9  | 808.0  | 825.0  | 717.6  | 416.4  | 124.4  | 0.0   |
| 52.5° | 318.2  | 333.9  | 411.2  | 480.6  | 560.5  | 640.4  | 665.3  | 440.0  | 162.4  | 2.6    | 0.0   |
| 55°   | 39.3   | 39.3   | 55.0   | 94.3   | 155.8  | 251.4  | 282.9  | 141.4  | 11.8   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.3    | 10.5   | 28.8   | 19.6   | 5.2    | 1.3    | 1.3    | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3   |
| 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    | 1.3    | 1.3   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3   |
| 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°    | 344.4 | 344.4 | 344.4 | 344.4 | 344.4  | 344.4 | 344.4  | 344.4 |
| 2.5°  | 450.5 | 434.8 | 412.5 | 347.0 | 290.7  | 241.0 | 212.1  | 197.7 |
| 5°    | 576.2 | 538.2 | 487.2 | 345.7 | 235.7  | 157.1 | 117.9  | 103.5 |
| 7.5°  | 696.7 | 653.5 | 567.0 | 340.5 | 180.7  | 91.7  | 51.1   | 40.6  |
| 10°   | 749.1 | 717.6 | 640.4 | 332.6 | 131.0  | 43.2  | 43.2   | 44.5  |
| 12.5° | 770.0 | 746.4 | 683.6 | 320.8 | 86.4   | 41.9  | 44.5   | 41.9  |
| 15°   | 784.4 | 762.2 | 704.5 | 307.7 | 49.8   | 43.2  | 35.4   | 31.4  |
| 17.5° | 792.3 | 766.1 | 711.1 | 282.9 | 32.7   | 36.7  | 22.3   | 18.3  |
| 20°   | 817.2 | 775.3 | 716.3 | 254.1 | 31.4   | 24.9  | 11.8   | 9.2   |
| 22.5° | 859.1 | 793.6 | 717.6 | 218.7 | 24.9   | 14.4  | 3.9    | 0.0   |
| 25°   | 897.0 | 818.5 | 721.6 | 172.9 | 7.9    | 3.9   | 0.0    | 0.0   |
| 27.5° | 915.4 | 826.3 | 720.3 | 121.8 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 893.1 | 806.7 | 708.5 | 76.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 840.7 | 792.3 | 671.8 | 32.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 823.7 | 760.9 | 588.0 | 3.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 785.7 | 670.5 | 432.2 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 675.7 | 484.5 | 205.6 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 446.6 | 206.9 | 11.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 157.1 | 13.1  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 2.6   | 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°   | 1.3   | 1.3   | 1.3   | 1.3   | 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   | 1.3   | 1.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.3   | 1.3   | 1.3   | 1.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3    | 1.3   | 0.0    | 0.0   |
| 82.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3    | 1.3   | 0.0    | 0.0   |
| 85°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3    | 1.3   | 0.0    | 0.0   |
| 87.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3    | 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)