

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: P1315656

Luminaire Tested: LDSQA3D13R459735DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459735DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

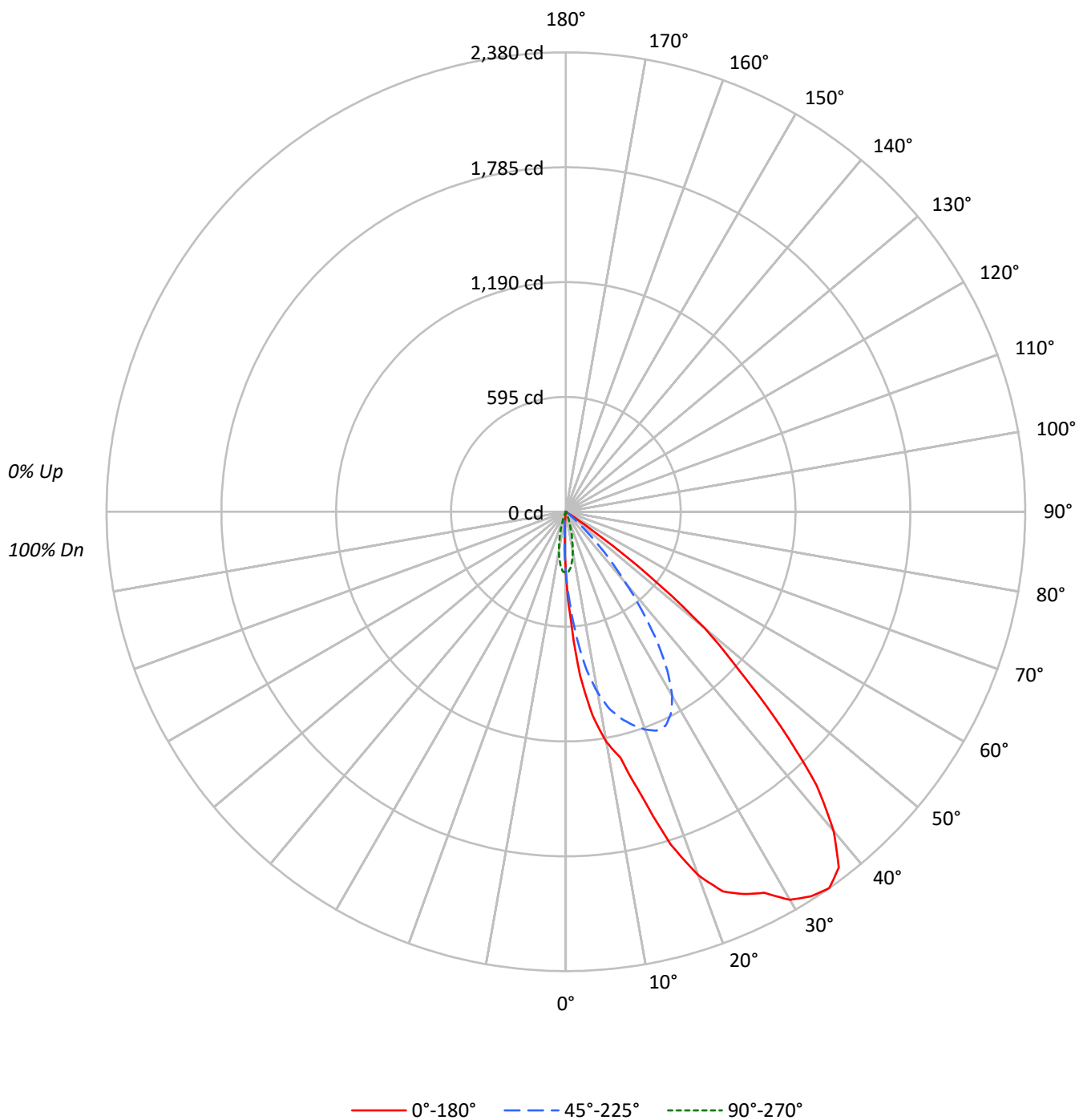
Lumens per Lamp: N/A  
Luminaire Lumens: 1009.0 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 |
| 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 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 53975  | 53975  | 53975 | 53975 | 53975 |
| 5°  | 147346 | 113358 | 49945 | 10027 | 3752  |
| 10° | 211604 | 166310 | 36113 | 944   | 787   |
| 15° | 272422 | 197822 | 19221 | 321   | 0     |
| 20° | 367174 | 220096 | 7313  | 0     | 0     |
| 25° | 415284 | 232517 | 1900  | 0     | 0     |
| 30° | 461627 | 219190 | 179   | 0     | 0     |
| 35° | 500425 | 174798 | 0     | 0     | 0     |
| 40° | 485028 | 109757 | 0     | 0     | 0     |
| 45° | 384483 | 52268  | 0     | 0     | 0     |
| 50° | 251641 | 6564   | 0     | 0     | 0     |
| 55° | 43238  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 310   | 0     | 0     |
| 65° | 0      | 367    | 367   | 0     | 0     |
| 70° | 0      | 453    | 906   | 0     | 0     |
| 75° | 0      | 599    | 1198  | 0     | 0     |
| 80° | 0      | 893    | 1785  | 893   | 0     |
| 85° | 0      | 1778   | 3557  | 1778  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 384483 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.3   | 3.7       |
| 10°-20°   | 143.7  | 14.2      |
| 20°-30°   | 269.1  | 26.7      |
| 30°-40°   | 314.1  | 31.1      |
| 40°-50°   | 204.8  | 20.3      |
| 50°-60°   | 38.0   | 3.8       |
| 60°-70°   | 0.4    | 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°    | 450.1  | 44.6      |
| 0°-40°    | 764.2  | 75.7      |
| 0°-60°    | 1007.1 | 99.8      |
| 0°-90°    | 1009.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1009.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 313  | 313  | 313 | 313  | 313  |      |
| 5°  | 852  | 656  | 289 | 58   | 22   | 91   |
| 15° | 1528 | 1110 | 108 | 2    | 0    | 455  |
| 25° | 2185 | 1224 | 10  | 0    | 0    | 1011 |
| 35° | 2380 | 831  | 0   | 0    | 0    | 1460 |
| 45° | 1579 | 215  | 0   | 0    | 0    | 1200 |
| 55° | 144  | 0    | 0   | 0    | 0    | 250  |
| 65° | 0    | 1    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 2   | 0    | 0    | 0    |
| 85° | 0    | 1    | 2   | 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°    | 313.4  | 313.4  | 313.4  | 313.4  | 313.4  | 313.4  | 313.4  | 313.4  | 313.4  | 313.4  | 313.4  |
| 2.5°  | 552.5  | 557.0  | 547.9  | 544.3  | 532.5  | 535.3  | 515.3  | 507.2  | 494.5  | 473.7  | 463.7  |
| 5°    | 852.3  | 844.1  | 836.9  | 821.5  | 812.4  | 787.9  | 760.8  | 730.0  | 692.9  | 655.7  | 613.2  |
| 7.5°  | 1066.0 | 1059.7 | 1056.9 | 1044.3 | 1026.1 | 1000.8 | 965.5  | 926.5  | 878.5  | 828.7  | 764.4  |
| 10°   | 1210.0 | 1203.7 | 1192.8 | 1180.1 | 1165.6 | 1144.8 | 1110.4 | 1067.8 | 1015.3 | 951.0  | 875.8  |
| 12.5° | 1304.2 | 1303.3 | 1285.2 | 1270.7 | 1252.6 | 1234.5 | 1199.1 | 1164.7 | 1113.1 | 1047.0 | 961.8  |
| 15°   | 1527.9 | 1513.4 | 1489.9 | 1449.1 | 1398.4 | 1351.3 | 1294.2 | 1239.9 | 1183.7 | 1109.5 | 1014.4 |
| 17.5° | 1806.9 | 1790.5 | 1750.7 | 1699.1 | 1617.6 | 1527.9 | 1430.1 | 1344.0 | 1259.8 | 1159.3 | 1047.0 |
| 20°   | 2003.4 | 1997.0 | 1963.5 | 1903.8 | 1816.8 | 1698.2 | 1569.6 | 1448.2 | 1329.6 | 1200.9 | 1062.4 |
| 22.5° | 2129.3 | 2125.7 | 2112.1 | 2071.3 | 1982.6 | 1849.4 | 1683.7 | 1520.7 | 1377.6 | 1227.2 | 1057.8 |
| 25°   | 2185.4 | 2190.0 | 2191.8 | 2171.8 | 2100.3 | 1964.4 | 1767.9 | 1575.9 | 1404.7 | 1223.6 | 1023.4 |
| 27.5° | 2225.3 | 2225.3 | 2232.5 | 2223.5 | 2151.0 | 2007.9 | 1800.5 | 1594.9 | 1395.7 | 1179.2 | 951.0  |
| 30°   | 2321.3 | 2319.5 | 2324.0 | 2299.5 | 2199.0 | 2021.5 | 1786.0 | 1564.1 | 1344.0 | 1102.2 | 846.8  |
| 32.5° | 2362.9 | 2364.8 | 2363.8 | 2324.9 | 2208.1 | 2012.4 | 1750.7 | 1505.3 | 1248.9 | 981.8  | 709.2  |
| 35°   | 2380.2 | 2372.0 | 2338.5 | 2249.7 | 2102.1 | 1892.0 | 1651.1 | 1405.6 | 1115.8 | 831.4  | 559.7  |
| 37.5° | 2323.1 | 2299.5 | 2225.3 | 2103.9 | 1923.7 | 1721.7 | 1486.2 | 1227.2 | 939.2  | 652.1  | 421.1  |
| 40°   | 2157.4 | 2126.6 | 2033.3 | 1886.6 | 1721.7 | 1539.7 | 1291.5 | 1018.0 | 734.5  | 488.2  | 295.3  |
| 42.5° | 1922.8 | 1887.5 | 1786.9 | 1659.2 | 1508.9 | 1317.8 | 1070.5 | 797.0  | 538.0  | 336.9  | 187.5  |
| 45°   | 1578.6 | 1558.7 | 1500.7 | 1393.0 | 1245.3 | 1047.0 | 820.6  | 581.5  | 372.2  | 214.6  | 96.0   |
| 47.5° | 1220.9 | 1195.5 | 1153.8 | 1079.6 | 956.4  | 768.0  | 574.2  | 394.9  | 239.1  | 106.0  | 19.9   |
| 50°   | 939.2  | 909.3  | 858.6  | 776.2  | 647.6  | 512.6  | 372.2  | 246.3  | 121.4  | 24.5   | 0.9    |
| 52.5° | 540.7  | 547.0  | 522.6  | 470.1  | 398.5  | 307.0  | 215.6  | 124.1  | 27.2   | 0.9    | 0.0    |
| 55°   | 144.0  | 155.8  | 152.2  | 163.9  | 144.0  | 121.4  | 89.7   | 23.5   | 1.8    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.9    | 1.8    | 5.4    | 8.2    | 2.7    | 0.9    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 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    | 0.9    | 0.9    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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°    | 313.4 | 313.4 | 313.4 | 313.4 | 313.4  | 313.4 | 313.4  | 313.4 |
| 2.5°  | 441.1 | 422.1 | 398.5 | 311.6 | 234.6  | 168.5 | 131.3  | 121.4 |
| 5°    | 572.4 | 526.2 | 466.4 | 288.9 | 144.9  | 58.0  | 26.3   | 21.7  |
| 7.5°  | 696.5 | 628.5 | 520.8 | 252.7 | 73.4   | 14.5  | 7.2    | 6.3   |
| 10°   | 792.5 | 701.0 | 560.6 | 206.5 | 27.2   | 5.4   | 4.5    | 4.5   |
| 12.5° | 858.6 | 747.2 | 575.1 | 156.7 | 10.0   | 2.7   | 2.7    | 1.8   |
| 15°   | 896.6 | 765.3 | 561.5 | 107.8 | 3.6    | 1.8   | 0.0    | 0.0   |
| 17.5° | 908.4 | 758.1 | 525.3 | 67.9  | 0.9    | 0.0   | 0.0    | 0.0   |
| 20°   | 898.4 | 722.7 | 468.2 | 39.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 865.8 | 667.5 | 399.4 | 21.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 805.2 | 589.6 | 318.8 | 10.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 706.4 | 489.1 | 240.0 | 3.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 594.1 | 381.3 | 170.3 | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 463.7 | 280.8 | 109.6 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 348.7 | 196.5 | 65.2  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 242.7 | 124.1 | 34.4  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 151.3 | 67.0  | 11.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 84.2  | 23.5  | 0.9   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 19.9  | 1.8   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.9   | 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   | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.9   | 0.9   | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.9   | 0.9   | 0.9   | 1.8   | 0.9    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.9   | 0.9   | 1.8   | 1.8   | 0.9    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.9   | 0.9   | 1.8   | 1.8   | 0.9    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.9   | 1.8   | 1.8   | 1.8   | 0.9    | 0.9   | 0.0    | 0.0   |
| 80°   | 0.9   | 1.8   | 1.8   | 1.8   | 1.8    | 0.9   | 0.0    | 0.0   |
| 82.5° | 0.9   | 1.8   | 1.8   | 1.8   | 1.8    | 0.9   | 0.0    | 0.0   |
| 85°   | 0.9   | 1.8   | 1.8   | 1.8   | 0.9    | 0.9   | 0.0    | 0.0   |
| 87.5° | 0.9   | 1.8   | 1.8   | 1.8   | 1.8    | 0.9   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)