

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: IRiS

Report Number: P1317448

Luminaire Tested: P3SQAS20R459830D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317448  
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: IRiS  
Catalog Number: P3SQAS20R459830D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

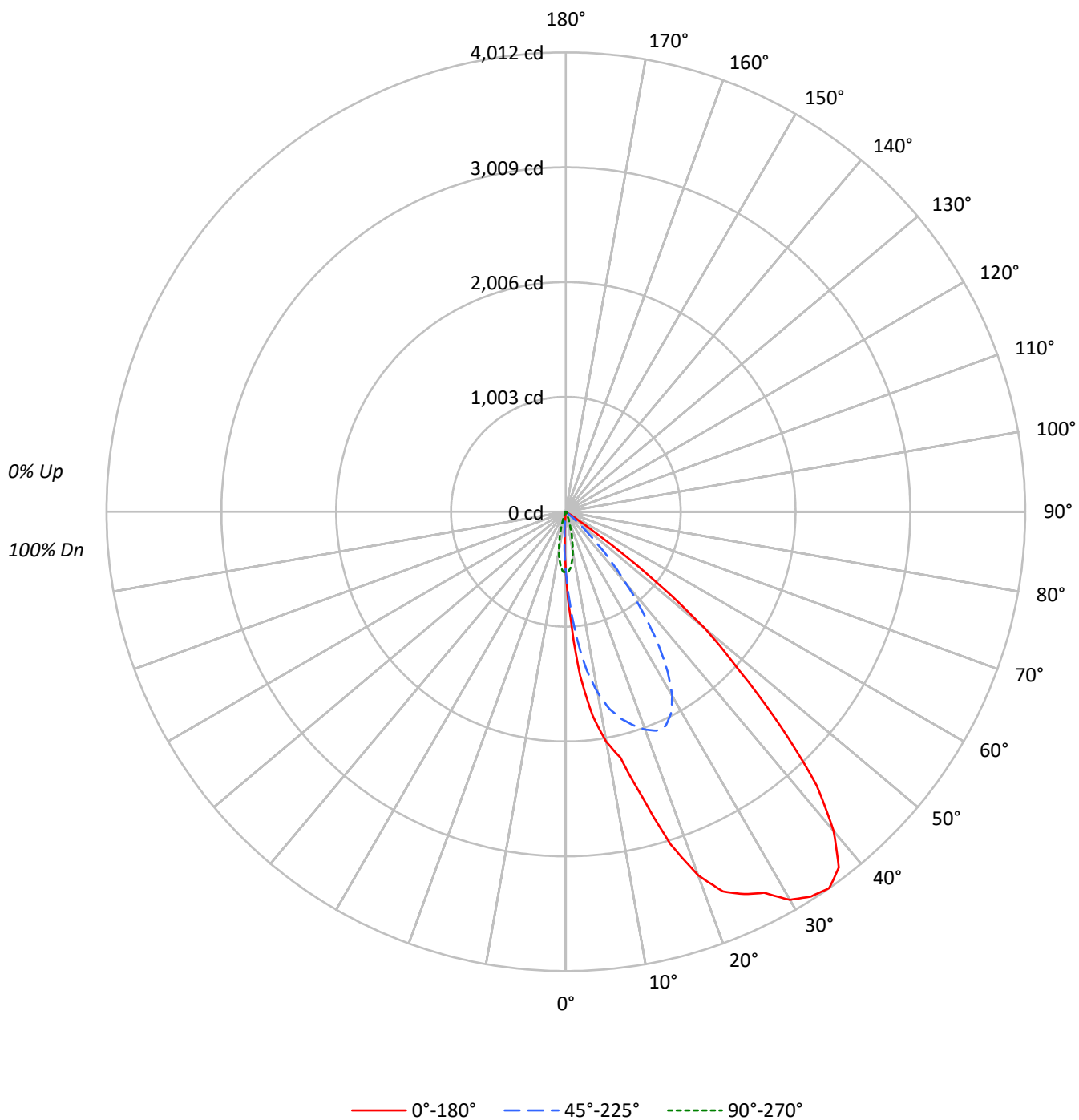
Lumens per Lamp: N/A  
Luminaire Lumens: 1701.0 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |
| 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°  | 90985  | 90985  | 90985 | 90985 | 90985 |
| 5°  | 248395 | 191102 | 84210 | 16890 | 6327  |
| 10° | 356737 | 280367 | 60876 | 1609  | 1329  |
| 15° | 459260 | 333489 | 32397 | 553   | 0     |
| 20° | 618995 | 371060 | 12316 | 0     | 0     |
| 25° | 700115 | 391987 | 3192  | 0     | 0     |
| 30° | 778221 | 369532 | 298   | 0     | 0     |
| 35° | 843608 | 294679 | 0     | 0     | 0     |
| 40° | 817650 | 185027 | 0     | 0     | 0     |
| 45° | 648185 | 88144  | 0     | 0     | 0     |
| 50° | 424215 | 11039  | 0     | 0     | 0     |
| 55° | 72903  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 517   | 0     | 0     |
| 65° | 0      | 611    | 611   | 0     | 0     |
| 70° | 0      | 755    | 1561  | 0     | 0     |
| 75° | 0      | 998    | 2063  | 0     | 0     |
| 80° | 0      | 1488   | 3075  | 1488  | 0     |
| 85° | 0      | 2964   | 6126  | 2964  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 648185 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.9   | 3.7       |
| 10°-20°   | 242.3  | 14.2      |
| 20°-30°   | 453.6  | 26.7      |
| 30°-40°   | 529.5  | 31.1      |
| 40°-50°   | 345.3  | 20.3      |
| 50°-60°   | 64.1   | 3.8       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 1.2    | 0.1       |
| 80°-90°   | 1.4    | 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°    | 758.8  | 44.6      |
| 0°-40°    | 1288.3 | 75.7      |
| 0°-60°    | 1697.7 | 99.8      |
| 0°-90°    | 1701.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1701.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 528  | 528  | 528 | 528  | 528  |      |
| 5°  | 1437 | 1105 | 487 | 98   | 37   | 154  |
| 15° | 2576 | 1870 | 182 | 3    | 0    | 768  |
| 25° | 3684 | 2063 | 17  | 0    | 0    | 1704 |
| 35° | 4012 | 1402 | 0   | 0    | 0    | 2461 |
| 45° | 2661 | 362  | 0   | 0    | 0    | 2024 |
| 55° | 243  | 0    | 0   | 0    | 0    | 422  |
| 65° | 0    | 2    | 2   | 0    | 0    | 0    |
| 75° | 0    | 2    | 3   | 0    | 0    | 0    |
| 85° | 0    | 2    | 3   | 2    | 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°    | 528.3  | 528.3  | 528.3  | 528.3  | 528.3  | 528.3  | 528.3  | 528.3  | 528.3  | 528.3  | 528.3  |
| 2.5°  | 931.4  | 939.0  | 923.7  | 917.6  | 897.8  | 902.4  | 868.8  | 855.0  | 833.7  | 798.5  | 781.7  |
| 5°    | 1436.8 | 1423.0 | 1410.8 | 1384.8 | 1369.6 | 1328.3 | 1282.5 | 1230.6 | 1168.0 | 1105.4 | 1033.7 |
| 7.5°  | 1797.1 | 1786.4 | 1781.8 | 1760.4 | 1729.9 | 1687.2 | 1627.6 | 1562.0 | 1481.0 | 1397.1 | 1288.6 |
| 10°   | 2039.9 | 2029.2 | 2010.8 | 1989.5 | 1965.0 | 1929.9 | 1871.9 | 1800.1 | 1711.6 | 1603.2 | 1476.5 |
| 12.5° | 2198.6 | 2197.1 | 2166.6 | 2142.2 | 2111.6 | 2081.1 | 2021.5 | 1963.5 | 1876.5 | 1765.0 | 1621.5 |
| 15°   | 2575.8 | 2551.3 | 2511.6 | 2442.9 | 2357.4 | 2278.0 | 2181.8 | 2090.2 | 1995.6 | 1870.4 | 1710.1 |
| 17.5° | 3046.0 | 3018.6 | 2951.4 | 2864.3 | 2726.9 | 2575.8 | 2410.9 | 2265.8 | 2123.8 | 1954.4 | 1765.0 |
| 20°   | 3377.4 | 3366.7 | 3310.2 | 3209.4 | 3062.8 | 2862.8 | 2646.0 | 2441.4 | 2241.4 | 2024.6 | 1791.0 |
| 22.5° | 3589.6 | 3583.5 | 3560.6 | 3491.9 | 3342.2 | 3117.8 | 2838.4 | 2563.6 | 2322.3 | 2068.9 | 1783.3 |
| 25°   | 3684.3 | 3691.9 | 3694.9 | 3661.4 | 3540.7 | 3311.7 | 2980.4 | 2656.7 | 2368.1 | 2062.8 | 1725.3 |
| 27.5° | 3751.4 | 3751.4 | 3763.7 | 3748.4 | 3626.2 | 3385.0 | 3035.4 | 2688.8 | 2352.9 | 1987.9 | 1603.2 |
| 30°   | 3913.3 | 3910.2 | 3917.9 | 3876.6 | 3707.2 | 3407.9 | 3010.9 | 2636.8 | 2265.8 | 1858.2 | 1427.6 |
| 32.5° | 3983.5 | 3986.6 | 3985.0 | 3919.4 | 3722.4 | 3392.6 | 2951.4 | 2537.6 | 2105.5 | 1655.1 | 1195.5 |
| 35°   | 4012.5 | 3998.8 | 3942.3 | 3792.7 | 3543.8 | 3189.6 | 2783.4 | 2369.7 | 1881.1 | 1401.6 | 943.6  |
| 37.5° | 3916.3 | 3876.6 | 3751.4 | 3546.8 | 3243.0 | 2902.5 | 2505.5 | 2068.9 | 1583.3 | 1099.3 | 710.0  |
| 40°   | 3636.9 | 3585.0 | 3427.7 | 3180.4 | 2902.5 | 2595.6 | 2177.3 | 1716.2 | 1238.3 | 823.0  | 497.7  |
| 42.5° | 3241.5 | 3181.9 | 3012.4 | 2797.2 | 2543.7 | 2221.5 | 1804.7 | 1343.6 | 906.9  | 568.0  | 316.1  |
| 45°   | 2661.3 | 2627.7 | 2530.0 | 2348.3 | 2099.4 | 1765.0 | 1383.3 | 980.2  | 627.5  | 361.9  | 161.8  |
| 47.5° | 2058.2 | 2015.4 | 1945.2 | 1820.0 | 1612.3 | 1294.8 | 968.0  | 665.7  | 403.1  | 178.6  | 33.6   |
| 50°   | 1583.3 | 1532.9 | 1447.4 | 1308.5 | 1091.7 | 864.2  | 627.5  | 415.3  | 204.6  | 41.2   | 1.5    |
| 52.5° | 911.5  | 922.2  | 881.0  | 792.4  | 671.8  | 517.6  | 363.4  | 209.2  | 45.8   | 1.5    | 0.0    |
| 55°   | 242.8  | 262.6  | 256.5  | 276.4  | 242.8  | 204.6  | 151.2  | 39.7   | 3.1    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 1.5    | 3.1    | 9.2    | 13.7   | 4.6    | 1.5    | 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    | 1.5    | 1.5    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 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°    | 528.3  | 528.3  | 528.3 | 528.3 | 528.3  | 528.3 | 528.3  | 528.3 |
| 2.5°  | 743.6  | 711.5  | 671.8 | 525.2 | 395.5  | 284.0 | 221.4  | 204.6 |
| 5°    | 965.0  | 887.1  | 786.3 | 487.1 | 244.3  | 97.7  | 44.3   | 36.6  |
| 7.5°  | 1174.1 | 1059.6 | 877.9 | 426.0 | 123.7  | 24.4  | 12.2   | 10.7  |
| 10°   | 1336.0 | 1181.8 | 945.1 | 348.1 | 45.8   | 9.2   | 7.6    | 7.6   |
| 12.5° | 1447.4 | 1259.6 | 969.5 | 264.1 | 16.8   | 4.6   | 4.6    | 3.1   |
| 15°   | 1511.6 | 1290.2 | 946.6 | 181.7 | 6.1    | 3.1   | 0.0    | 0.0   |
| 17.5° | 1531.4 | 1278.0 | 885.6 | 114.5 | 1.5    | 0.0   | 0.0    | 0.0   |
| 20°   | 1514.6 | 1218.4 | 789.4 | 67.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 1459.7 | 1125.3 | 673.3 | 36.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 1357.4 | 994.0  | 537.4 | 16.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 1190.9 | 824.5  | 404.6 | 6.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1001.6 | 642.8  | 287.0 | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 781.7  | 473.3  | 184.7 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 587.8  | 331.3  | 109.9 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 409.2  | 209.2  | 58.0  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 255.0  | 113.0  | 19.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 142.0  | 39.7   | 1.5   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 33.6   | 3.1    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 1.5    | 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   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 1.5    | 1.5   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 1.5    | 1.5    | 1.5   | 1.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.5    | 1.5    | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.5    | 1.5    | 1.5   | 1.5   | 1.5    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.5    | 1.5    | 1.5   | 3.1   | 1.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.5    | 1.5    | 3.1   | 3.1   | 1.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.5    | 1.5    | 3.1   | 3.1   | 1.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.5    | 3.1    | 3.1   | 3.1   | 1.5    | 1.5   | 0.0    | 0.0   |
| 80°   | 1.5    | 3.1    | 3.1   | 3.1   | 3.1    | 1.5   | 0.0    | 0.0   |
| 82.5° | 1.5    | 3.1    | 3.1   | 3.1   | 3.1    | 1.5   | 0.0    | 0.0   |
| 85°   | 1.5    | 3.1    | 3.1   | 3.1   | 1.5    | 1.5   | 0.0    | 0.0   |
| 87.5° | 1.5    | 3.1    | 3.1   | 3.1   | 3.1    | 1.5   | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)