

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: P1310611

Luminaire Tested: P3SQAS20R609040D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-55)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R609040D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

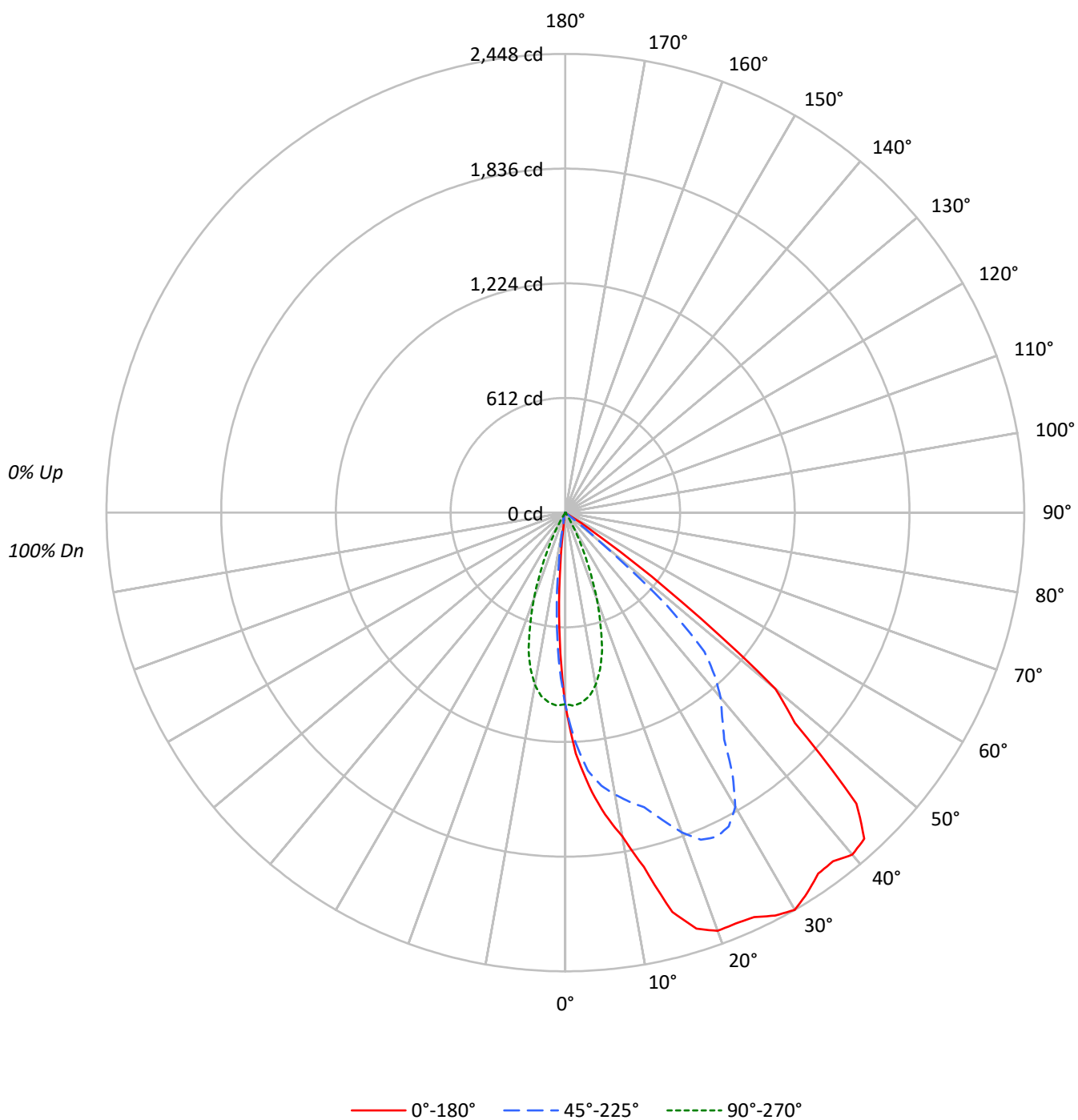
Lumens per Lamp: N/A  
Luminaire Lumens: 1661.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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: P3SQAS20R609040D010 E3SQCA301MB

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

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 176012 | 176012 | 176012 | 176012 | 176012 |
| 5°  | 253702 | 238921 | 175733 | 90538  | 58157  |
| 10° | 306878 | 267128 | 163145 | 10808  | 6366   |
| 15° | 393272 | 290180 | 135203 | 7132   | 5830   |
| 20° | 435261 | 332608 | 90648  | 3995   | 660    |
| 25° | 452663 | 362818 | 44580  | 342    | 0      |
| 30° | 486743 | 360543 | 12290  | 0      | 0      |
| 35° | 494328 | 310448 | 0      | 0      | 0      |
| 40° | 535545 | 289434 | 0      | 0      | 0      |
| 45° | 535027 | 255543 | 0      | 0      | 0      |
| 50° | 391715 | 61865  | 0      | 0      | 0      |
| 55° | 76446  | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      | 0      | 0      |
| 65° | 0      | 734    | 734    | 0      | 0      |
| 70° | 0      | 906    | 906    | 0      | 0      |
| 75° | 0      | 1198   | 1198   | 0      | 0      |
| 80° | 0      | 1785   | 1785   | 1785   | 0      |
| 85° | 0      | 3557   | 3557   | 3557   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 535904 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.7   | 5.3       |
| 10°-20°   | 249.9  | 15.0      |
| 20°-30°   | 398.3  | 24.0      |
| 30°-40°   | 460.4  | 27.7      |
| 40°-50°   | 365.6  | 22.0      |
| 50°-60°   | 96.2   | 5.8       |
| 60°-70°   | 0.7    | 0.0       |
| 70°-80°   | 1.0    | 0.1       |
| 80°-90°   | 1.0    | 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°    | 736.0  | 44.3      |
| 0°-40°    | 1196.4 | 72.0      |
| 0°-60°    | 1658.2 | 99.8      |
| 0°-90°    | 1661.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1661.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1022 | 1022 | 1022 | 1022 | 1022 |      |
| 5°  | 1468 | 1382 | 1016 | 524  | 336  | 148  |
| 15° | 2206 | 1628 | 758  | 40   | 33   | 615  |
| 25° | 2382 | 1909 | 235  | 2    | 0    | 1111 |
| 35° | 2351 | 1477 | 0    | 0    | 0    | 1493 |
| 45° | 2197 | 1049 | 0    | 0    | 0    | 1564 |
| 55° | 255  | 0    | 0    | 0    | 0    | 384  |
| 65° | 0    | 2    | 2    | 0    | 0    | 0    |
| 75° | 0    | 2    | 2    | 0    | 0    | 0    |
| 85° | 0    | 2    | 2    | 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°    | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 |
| 2.5°  | 1285.6 | 1298.4 | 1292.9 | 1287.4 | 1274.7 | 1269.3 | 1269.3 | 1254.7 | 1231.1 | 1227.4 | 1211.1 |
| 5°    | 1467.5 | 1471.1 | 1471.1 | 1467.5 | 1458.4 | 1443.8 | 1440.2 | 1425.6 | 1403.8 | 1382.0 | 1360.2 |
| 7.5°  | 1625.7 | 1623.9 | 1612.9 | 1605.7 | 1589.3 | 1569.3 | 1551.1 | 1531.1 | 1498.4 | 1469.3 | 1438.4 |
| 10°   | 1754.8 | 1760.2 | 1751.1 | 1733.0 | 1711.1 | 1683.9 | 1654.8 | 1620.2 | 1571.1 | 1527.5 | 1487.5 |
| 12.5° | 1936.6 | 1934.8 | 1911.2 | 1880.2 | 1827.5 | 1776.6 | 1731.1 | 1693.0 | 1632.9 | 1580.2 | 1531.1 |
| 15°   | 2205.7 | 2202.1 | 2180.3 | 2153.0 | 2076.6 | 2000.3 | 1922.1 | 1814.8 | 1714.8 | 1627.5 | 1558.4 |
| 17.5° | 2327.6 | 2334.9 | 2316.7 | 2302.1 | 2258.5 | 2207.6 | 2138.5 | 2031.2 | 1876.6 | 1718.4 | 1572.9 |
| 20°   | 2374.9 | 2384.0 | 2371.2 | 2369.4 | 2349.4 | 2325.8 | 2269.4 | 2153.0 | 2002.1 | 1814.8 | 1634.8 |
| 22.5° | 2373.0 | 2380.3 | 2374.9 | 2398.5 | 2422.1 | 2409.4 | 2340.3 | 2223.9 | 2069.4 | 1889.3 | 1685.7 |
| 25°   | 2382.1 | 2376.7 | 2356.7 | 2391.2 | 2425.8 | 2414.9 | 2380.3 | 2280.3 | 2111.2 | 1909.3 | 1703.9 |
| 27.5° | 2424.0 | 2384.0 | 2343.9 | 2387.6 | 2404.0 | 2407.6 | 2387.6 | 2269.4 | 2103.9 | 1887.5 | 1667.5 |
| 30°   | 2447.6 | 2404.0 | 2371.2 | 2407.6 | 2407.6 | 2427.6 | 2385.8 | 2251.2 | 2042.1 | 1813.0 | 1571.1 |
| 32.5° | 2404.0 | 2394.9 | 2424.0 | 2460.3 | 2469.4 | 2469.4 | 2376.7 | 2191.2 | 1938.4 | 1660.2 | 1416.6 |
| 35°   | 2351.2 | 2373.0 | 2456.7 | 2473.1 | 2473.1 | 2433.0 | 2320.3 | 2085.7 | 1783.9 | 1476.6 | 1302.0 |
| 37.5° | 2345.8 | 2380.3 | 2473.1 | 2453.1 | 2420.3 | 2345.8 | 2182.1 | 1902.1 | 1563.8 | 1372.9 | 1216.5 |
| 40°   | 2382.1 | 2414.9 | 2469.4 | 2396.7 | 2318.5 | 2202.1 | 2005.7 | 1662.0 | 1431.1 | 1287.4 | 1112.9 |
| 42.5° | 2360.3 | 2391.2 | 2393.0 | 2285.8 | 2174.8 | 2016.6 | 1756.6 | 1467.5 | 1334.7 | 1178.3 | 994.7  |
| 45°   | 2196.7 | 2200.3 | 2193.0 | 2078.5 | 1963.9 | 1800.2 | 1523.8 | 1371.1 | 1229.3 | 1049.2 | 731.0  |
| 47.5° | 1660.2 | 1652.9 | 1680.2 | 1647.5 | 1652.9 | 1554.8 | 1383.8 | 1258.3 | 1089.2 | 736.5  | 221.8  |
| 50°   | 1462.0 | 1452.9 | 1425.6 | 1396.5 | 1367.5 | 1320.2 | 1240.2 | 1105.6 | 785.6  | 230.9  | 7.3    |
| 52.5° | 783.7  | 827.4  | 912.8  | 1043.8 | 1092.9 | 1089.2 | 1029.2 | 818.3  | 247.3  | 1.8    | 0.0    |
| 55°   | 254.6  | 250.9  | 280.0  | 331.0  | 454.6  | 523.7  | 545.5  | 278.2  | 5.5    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 5.5    | 18.2   | 47.3   | 61.8   | 3.6    | 0.0    | 1.8    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 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°    | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 | 1022.0 |
| 2.5°  | 1189.2 | 1163.8 | 1134.7 | 1031.0 | 909.2  | 791.0  | 705.5  | 683.7  |
| 5°    | 1325.6 | 1282.0 | 1220.2 | 1016.5 | 751.0  | 523.7  | 374.6  | 336.4  |
| 7.5°  | 1396.5 | 1358.4 | 1292.9 | 987.4  | 581.9  | 258.2  | 96.4   | 65.5   |
| 10°   | 1440.2 | 1394.7 | 1322.0 | 932.9  | 380.1  | 61.8   | 34.6   | 36.4   |
| 12.5° | 1471.1 | 1418.4 | 1336.5 | 854.7  | 192.8  | 30.9   | 43.6   | 45.5   |
| 15°   | 1483.8 | 1427.5 | 1334.7 | 758.3  | 69.1   | 40.0   | 38.2   | 32.7   |
| 17.5° | 1476.6 | 1405.6 | 1311.1 | 620.1  | 23.6   | 38.2   | 20.0   | 16.4   |
| 20°   | 1467.5 | 1387.5 | 1272.9 | 494.6  | 20.0   | 21.8   | 7.3    | 3.6    |
| 22.5° | 1496.6 | 1356.5 | 1220.2 | 354.6  | 20.0   | 7.3    | 0.0    | 0.0    |
| 25°   | 1500.2 | 1343.8 | 1152.9 | 234.6  | 9.1    | 1.8    | 0.0    | 0.0    |
| 27.5° | 1463.8 | 1269.3 | 1049.2 | 138.2  | 0.0    | 0.0    | 0.0    | 0.0    |
| 30°   | 1347.5 | 1176.5 | 938.3  | 61.8   | 0.0    | 0.0    | 0.0    | 0.0    |
| 32.5° | 1232.9 | 1072.9 | 814.7  | 14.5   | 0.0    | 0.0    | 0.0    | 0.0    |
| 35°   | 1142.0 | 965.6  | 678.3  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 1029.2 | 838.3  | 505.5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 911.0  | 676.5  | 252.8  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 711.0  | 321.9  | 25.5   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 272.8  | 29.1   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 14.5   | 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    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 70°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 75°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 80°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    |
| 82.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 85°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    |
| 87.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)