

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: P1318350

Luminaire Tested: P3SQAS20R609835D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318350  
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: P3SQAS20R609835D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 98CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

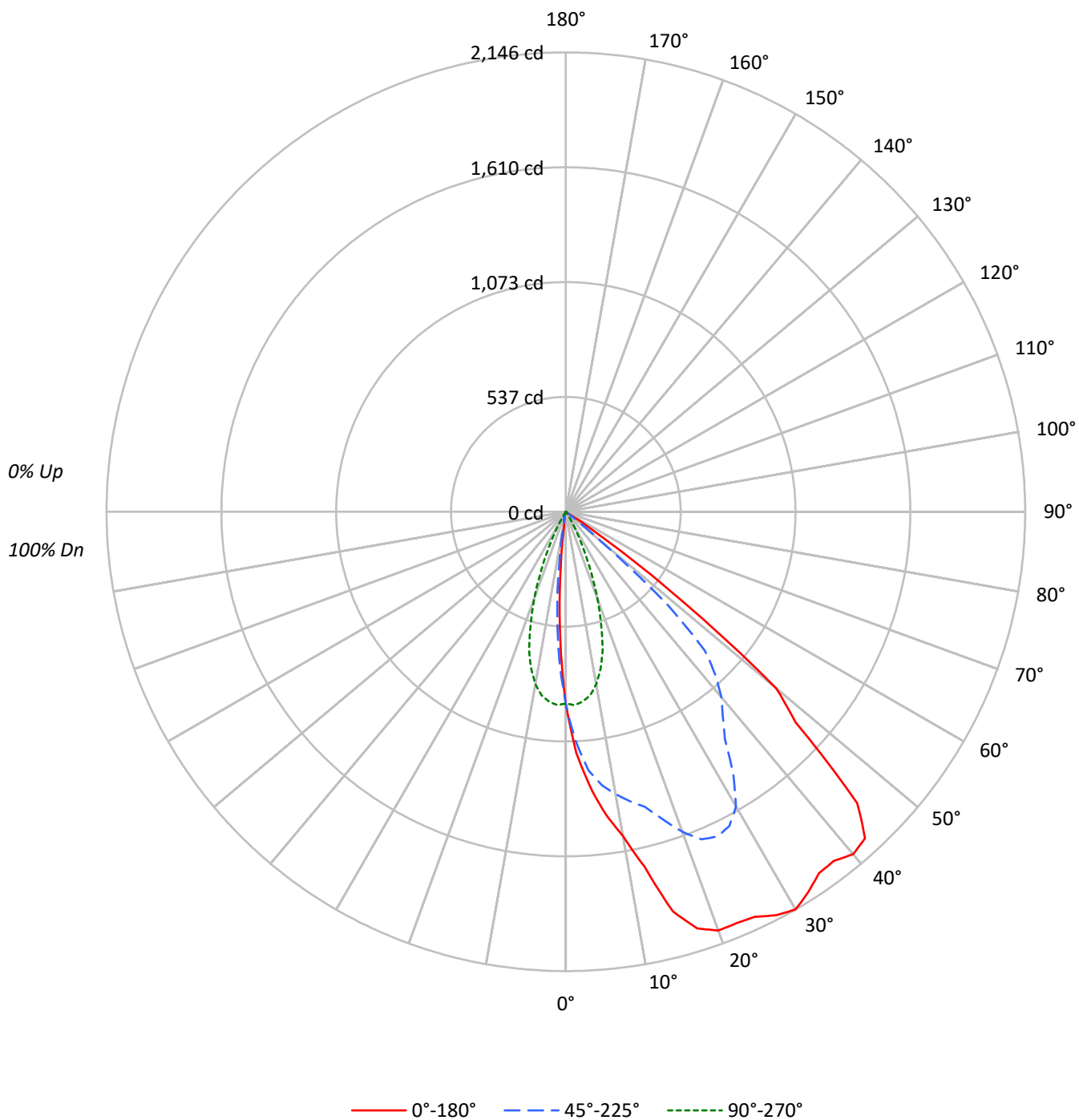
Lumens per Lamp: N/A  
Luminaire Lumens: 1456.0 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1318350

CATALOG NUMBER: P3SQAS20R609835D010 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°  | 154277 | 154277 | 154277 | 154277 | 154277 |
| 5°  | 222393 | 209427 | 154037 | 79369  | 50982  |
| 10° | 269000 | 234164 | 142999 | 9478   | 5579   |
| 15° | 344739 | 254360 | 118515 | 6258   | 5117   |
| 20° | 381543 | 291555 | 79468  | 3501   | 586    |
| 25° | 396795 | 318048 | 39069  | 304    | 0      |
| 30° | 426666 | 316037 | 10779  | 0      | 0      |
| 35° | 433315 | 272120 | 0      | 0      | 0      |
| 40° | 469448 | 253710 | 0      | 0      | 0      |
| 45° | 468974 | 224002 | 0      | 0      | 0      |
| 50° | 343380 | 54229  | 0      | 0      | 0      |
| 55° | 67018  | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      | 0      | 0      |
| 65° | 0      | 652    | 652    | 0      | 0      |
| 70° | 0      | 806    | 806    | 0      | 0      |
| 75° | 0      | 1065   | 1065   | 0      | 0      |
| 80° | 0      | 1587   | 1587   | 1587   | 0      |
| 85° | 0      | 3162   | 3162   | 3162   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 469753 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.9   | 5.3       |
| 10°-20°   | 219.1  | 15.0      |
| 20°-30°   | 349.1  | 24.0      |
| 30°-40°   | 403.6  | 27.7      |
| 40°-50°   | 320.5  | 22.0      |
| 50°-60°   | 84.3   | 5.8       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 0.9    | 0.1       |
| 80°-90°   | 0.9    | 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°    | 645.1  | 44.3      |
| 0°-40°    | 1048.7 | 72.0      |
| 0°-60°    | 1453.6 | 99.8      |
| 0°-90°    | 1456.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1456.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 896  | 896  | 896 | 896  | 896  |      |
| 5°  | 1286 | 1211 | 891 | 459  | 295  | 130  |
| 15° | 1934 | 1427 | 665 | 35   | 29   | 539  |
| 25° | 2088 | 1674 | 206 | 2    | 0    | 974  |
| 35° | 2061 | 1294 | 0   | 0    | 0    | 1309 |
| 45° | 1926 | 920  | 0   | 0    | 0    | 1371 |
| 55° | 223  | 0    | 0   | 0    | 0    | 336  |
| 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    |      |

TEST NUMBER: P1318350

CATALOG NUMBER: P3SQAS20R609835D010 E3SQCA301MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 895.8  | 895.8  | 895.8  | 895.8  | 895.8  | 895.8  | 895.8  | 895.8  | 895.8  | 895.8  | 895.8  |
| 2.5°  | 1127.0 | 1138.1 | 1133.3 | 1128.5 | 1117.4 | 1112.6 | 1112.6 | 1099.9 | 1079.1 | 1075.9 | 1061.6 |
| 5°    | 1286.4 | 1289.5 | 1289.5 | 1286.4 | 1278.4 | 1265.6 | 1262.4 | 1249.7 | 1230.6 | 1211.4 | 1192.3 |
| 7.5°  | 1425.0 | 1423.4 | 1413.9 | 1407.5 | 1393.2 | 1375.6 | 1359.7 | 1342.1 | 1313.5 | 1287.9 | 1260.8 |
| 10°   | 1538.2 | 1543.0 | 1535.0 | 1519.1 | 1499.9 | 1476.0 | 1450.5 | 1420.2 | 1377.2 | 1339.0 | 1303.9 |
| 12.5° | 1697.6 | 1696.0 | 1675.3 | 1648.2 | 1602.0 | 1557.3 | 1517.5 | 1484.0 | 1431.4 | 1385.2 | 1342.1 |
| 15°   | 1933.5 | 1930.3 | 1911.2 | 1887.3 | 1820.3 | 1753.4 | 1684.9 | 1590.8 | 1503.1 | 1426.6 | 1366.1 |
| 17.5° | 2040.3 | 2046.7 | 2030.7 | 2018.0 | 1979.7 | 1935.1 | 1874.5 | 1780.5 | 1645.0 | 1506.3 | 1378.8 |
| 20°   | 2081.8 | 2089.7 | 2078.6 | 2077.0 | 2059.4 | 2038.7 | 1989.3 | 1887.3 | 1755.0 | 1590.8 | 1433.0 |
| 22.5° | 2080.2 | 2086.5 | 2081.8 | 2102.5 | 2123.2 | 2112.0 | 2051.5 | 1949.5 | 1814.0 | 1656.2 | 1477.6 |
| 25°   | 2088.1 | 2083.3 | 2065.8 | 2096.1 | 2126.4 | 2116.8 | 2086.5 | 1998.9 | 1850.6 | 1673.7 | 1493.6 |
| 27.5° | 2124.8 | 2089.7 | 2054.7 | 2092.9 | 2107.3 | 2110.4 | 2092.9 | 1989.3 | 1844.3 | 1654.6 | 1461.7 |
| 30°   | 2145.5 | 2107.3 | 2078.6 | 2110.4 | 2110.4 | 2128.0 | 2091.3 | 1973.4 | 1790.1 | 1589.2 | 1377.2 |
| 32.5° | 2107.3 | 2099.3 | 2124.8 | 2156.7 | 2164.6 | 2164.6 | 2083.3 | 1920.8 | 1699.2 | 1455.3 | 1241.7 |
| 35°   | 2061.0 | 2080.2 | 2153.5 | 2167.8 | 2167.8 | 2132.8 | 2033.9 | 1828.3 | 1563.7 | 1294.3 | 1141.3 |
| 37.5° | 2056.3 | 2086.5 | 2167.8 | 2150.3 | 2121.6 | 2056.3 | 1912.8 | 1667.3 | 1370.8 | 1203.5 | 1066.4 |
| 40°   | 2088.1 | 2116.8 | 2164.6 | 2100.9 | 2032.3 | 1930.3 | 1758.2 | 1456.9 | 1254.5 | 1128.5 | 975.5  |
| 42.5° | 2069.0 | 2096.1 | 2097.7 | 2003.6 | 1906.4 | 1767.7 | 1539.8 | 1286.4 | 1170.0 | 1032.9 | 871.9  |
| 45°   | 1925.5 | 1928.7 | 1922.4 | 1821.9 | 1721.5 | 1578.1 | 1335.8 | 1201.9 | 1077.5 | 919.7  | 640.8  |
| 47.5° | 1455.3 | 1448.9 | 1472.8 | 1444.2 | 1448.9 | 1362.9 | 1213.0 | 1103.0 | 954.8  | 645.6  | 194.5  |
| 50°   | 1281.6 | 1273.6 | 1249.7 | 1224.2 | 1198.7 | 1157.2 | 1087.1 | 969.1  | 688.6  | 202.4  | 6.4    |
| 52.5° | 687.0  | 725.3  | 800.2  | 915.0  | 958.0  | 954.8  | 902.2  | 717.3  | 216.8  | 1.6    | 0.0    |
| 55°   | 223.2  | 220.0  | 245.5  | 290.1  | 398.5  | 459.1  | 478.2  | 243.9  | 4.8    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 4.8    | 15.9   | 41.4   | 54.2   | 3.2    | 0.0    | 1.6    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1318350

CATALOG NUMBER: P3SQAS20R609835D010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 67.5°  | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|--------|--------|-------|--------|-------|--------|-------|
| 0°    | 895.8  | 895.8  | 895.8  | 895.8 | 895.8  | 895.8 | 895.8  | 895.8 |
| 2.5°  | 1042.5 | 1020.2 | 994.7  | 903.8 | 797.0  | 693.4 | 618.5  | 599.3 |
| 5°    | 1162.0 | 1123.8 | 1069.6 | 891.0 | 658.3  | 459.1 | 328.4  | 294.9 |
| 7.5°  | 1224.2 | 1190.7 | 1133.3 | 865.5 | 510.1  | 226.3 | 84.5   | 57.4  |
| 10°   | 1262.4 | 1222.6 | 1158.8 | 817.7 | 333.1  | 54.2  | 30.3   | 31.9  |
| 12.5° | 1289.5 | 1243.3 | 1171.6 | 749.2 | 169.0  | 27.1  | 38.3   | 39.8  |
| 15°   | 1300.7 | 1251.3 | 1170.0 | 664.7 | 60.6   | 35.1  | 33.5   | 28.7  |
| 17.5° | 1294.3 | 1232.2 | 1149.3 | 543.6 | 20.7   | 33.5  | 17.5   | 14.3  |
| 20°   | 1286.4 | 1216.2 | 1115.8 | 433.6 | 17.5   | 19.1  | 6.4    | 3.2   |
| 22.5° | 1311.9 | 1189.1 | 1069.6 | 310.8 | 17.5   | 6.4   | 0.0    | 0.0   |
| 25°   | 1315.0 | 1178.0 | 1010.6 | 205.6 | 8.0    | 1.6   | 0.0    | 0.0   |
| 27.5° | 1283.2 | 1112.6 | 919.7  | 121.1 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1181.1 | 1031.3 | 822.5  | 54.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 1080.7 | 940.5  | 714.1  | 12.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 1001.0 | 846.4  | 594.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 902.2  | 734.8  | 443.1  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 798.6  | 593.0  | 221.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 623.3  | 282.1  | 22.3   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 239.1  | 25.5   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 12.8   | 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°   | 1.6    | 1.6    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 1.6    | 1.6    | 1.6    | 1.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.6    | 1.6    | 1.6    | 1.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 1.6   | 0.0    | 0.0   |
| 82.5° | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 85°   | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 1.6   | 0.0    | 0.0   |
| 87.5° | 1.6    | 1.6    | 1.6    | 1.6   | 1.6    | 1.6   | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)