

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: P1318197

Luminaire Tested: P3SQAS17R559835DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R559835DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

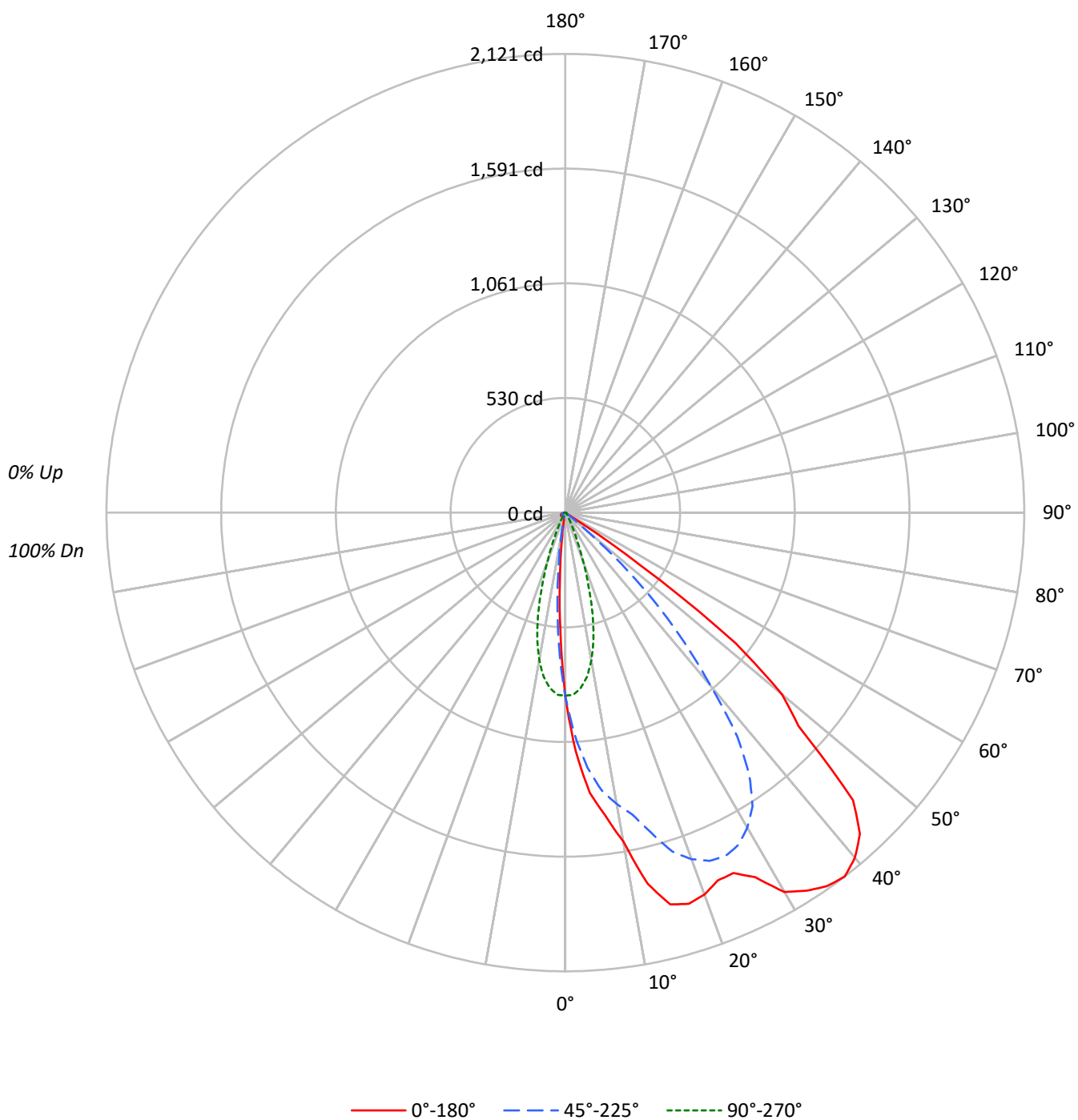
Lumens per Lamp: N/A  
Luminaire Lumens: 1412.1 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 86  | 83  | 81  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 59  | 55  | 63  | 59  | 55  | 53  |    |    |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 145752 | 145752 | 145752 | 145752 | 145752 |
| 5°  | 224762 | 204621 | 140794 | 72299  | 47490  |
| 10° | 270049 | 239165 | 121191 | 18240  | 7292   |
| 15° | 334380 | 273135 | 86599  | 5028   | 3940   |
| 20° | 344375 | 312466 | 44738  | 3372   | 3372   |
| 25° | 349383 | 332832 | 17939  | 3021   | 3496   |
| 30° | 402703 | 334412 | 7796   | 3162   | 3659   |
| 35° | 443281 | 311772 | 3343   | 3343   | 4121   |
| 40° | 468212 | 234668 | 1933   | 3867   | 4406   |
| 45° | 457965 | 143384 | 1802   | 4189   | 5383   |
| 50° | 350320 | 30571  | 1983   | 4930   | 6243   |
| 55° | 128542 | 1111   | 2222   | 5525   | 6996   |
| 60° | 1274   | 1274   | 2549   | 6338   | 8026   |
| 65° | 1508   | 1508   | 3016   | 6479   | 8517   |
| 70° | 1259   | 1863   | 3072   | 7402   | 9869   |
| 75° | 799    | 1664   | 3261   | 8185   | 11445  |
| 80° | 1190   | 2479   | 3670   | 8529   | 12199  |
| 85° | 0      | 2371   | 4940   | 9683   | 12054  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 457965 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.5   | 5.3       |
| 10°-20°   | 213.4  | 15.1      |
| 20°-30°   | 327.3  | 23.2      |
| 30°-40°   | 381.4  | 27.0      |
| 40°-50°   | 304.8  | 21.6      |
| 50°-60°   | 90.2   | 6.4       |
| 60°-70°   | 9.7    | 0.7       |
| 70°-80°   | 7.6    | 0.5       |
| 80°-90°   | 3.2    | 0.2       |
| 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°    | 615.2  | 43.6      |
| 0°-40°    | 996.6  | 70.6      |
| 0°-60°    | 1391.6 | 98.5      |
| 0°-90°    | 1412.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1412.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 846  | 846  | 846 | 846  | 846  |      |
| 5°  | 1300 | 1184 | 814 | 418  | 275  | 129  |
| 15° | 1875 | 1532 | 486 | 28   | 22   | 518  |
| 25° | 1839 | 1752 | 94  | 16   | 18   | 873  |
| 35° | 2108 | 1483 | 16  | 16   | 20   | 1313 |
| 45° | 1880 | 589  | 7   | 17   | 22   | 1356 |
| 55° | 428  | 4    | 7   | 18   | 23   | 453  |
| 65° | 4    | 4    | 7   | 16   | 21   | 3    |
| 75° | 1    | 2    | 5   | 12   | 17   | 2    |
| 85° | 0    | 1    | 2   | 5    | 6    | 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°    | 846.3  | 846.3  | 846.3  | 846.3  | 846.3  | 846.3  | 846.3  | 846.3  | 846.3  | 846.3  | 846.3  |
| 2.5°  | 1103.9 | 1103.9 | 1100.2 | 1101.4 | 1099.0 | 1085.5 | 1083.0 | 1065.9 | 1051.1 | 1035.2 | 1021.7 |
| 5°    | 1300.1 | 1302.6 | 1298.9 | 1291.5 | 1281.7 | 1271.9 | 1251.1 | 1235.1 | 1214.3 | 1183.6 | 1155.4 |
| 7.5°  | 1411.7 | 1409.3 | 1403.1 | 1400.7 | 1394.6 | 1383.5 | 1368.8 | 1351.6 | 1327.1 | 1296.4 | 1263.3 |
| 10°   | 1544.2 | 1523.3 | 1517.2 | 1507.4 | 1487.8 | 1465.7 | 1439.9 | 1416.6 | 1395.8 | 1367.6 | 1332.0 |
| 12.5° | 1757.6 | 1753.9 | 1729.4 | 1711.0 | 1684.0 | 1635.0 | 1590.8 | 1539.3 | 1478.0 | 1428.9 | 1382.3 |
| 15°   | 1875.4 | 1877.8 | 1866.8 | 1852.1 | 1834.9 | 1794.4 | 1750.3 | 1690.2 | 1617.8 | 1531.9 | 1455.9 |
| 17.5° | 1896.2 | 1899.9 | 1893.8 | 1887.6 | 1882.7 | 1859.4 | 1832.4 | 1789.5 | 1723.3 | 1643.5 | 1530.7 |
| 20°   | 1879.0 | 1886.4 | 1887.6 | 1895.0 | 1904.8 | 1895.0 | 1872.9 | 1843.5 | 1788.3 | 1704.9 | 1596.9 |
| 22.5° | 1841.0 | 1854.5 | 1864.3 | 1890.1 | 1915.8 | 1915.8 | 1902.3 | 1879.0 | 1825.1 | 1742.9 | 1632.5 |
| 25°   | 1838.6 | 1841.0 | 1844.7 | 1886.4 | 1926.9 | 1935.5 | 1923.2 | 1898.7 | 1839.8 | 1751.5 | 1631.3 |
| 27.5° | 1899.9 | 1883.9 | 1859.4 | 1901.1 | 1949.0 | 1956.3 | 1939.1 | 1906.0 | 1836.1 | 1731.9 | 1589.6 |
| 30°   | 2025.0 | 1989.4 | 1937.9 | 1968.6 | 2001.7 | 1993.1 | 1958.8 | 1906.0 | 1811.6 | 1681.6 | 1511.1 |
| 32.5° | 2072.8 | 2053.2 | 2034.8 | 2067.9 | 2074.1 | 2038.5 | 1977.2 | 1898.7 | 1772.3 | 1610.4 | 1382.3 |
| 35°   | 2108.4 | 2109.6 | 2102.3 | 2108.4 | 2079.0 | 2028.7 | 1961.2 | 1858.2 | 1698.7 | 1482.9 | 1211.8 |
| 37.5° | 2120.7 | 2123.1 | 2107.2 | 2085.1 | 2040.9 | 1983.3 | 1902.3 | 1784.6 | 1576.1 | 1307.5 | 954.2  |
| 40°   | 2082.6 | 2075.3 | 2049.5 | 2018.9 | 1971.0 | 1912.2 | 1823.8 | 1648.5 | 1393.3 | 1043.8 | 744.5  |
| 42.5° | 2015.2 | 2002.9 | 1972.3 | 1935.5 | 1885.2 | 1810.4 | 1669.3 | 1457.1 | 1132.1 | 814.4  | 521.3  |
| 45°   | 1880.3 | 1871.7 | 1833.7 | 1806.7 | 1746.6 | 1649.7 | 1468.2 | 1200.8 | 875.7  | 588.7  | 301.7  |
| 47.5° | 1460.8 | 1462.0 | 1491.5 | 1504.9 | 1484.1 | 1406.8 | 1193.4 | 912.5  | 639.0  | 350.8  | 101.8  |
| 50°   | 1307.5 | 1301.3 | 1271.9 | 1231.4 | 1164.0 | 1048.7 | 875.7  | 645.2  | 377.8  | 114.1  | 14.7   |
| 52.5° | 992.3  | 992.3  | 977.5  | 956.7  | 885.6  | 773.9  | 592.4  | 356.9  | 132.5  | 19.6   | 3.7    |
| 55°   | 428.1  | 406.0  | 418.2  | 441.6  | 423.2  | 368.0  | 277.2  | 106.7  | 23.3   | 3.7    | 3.7    |
| 57.5° | 6.1    | 14.7   | 22.1   | 35.6   | 47.8   | 57.6   | 30.7   | 11.0   | 3.7    | 3.7    | 3.7    |
| 60°   | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 62.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 65°   | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 67.5° | 2.5    | 2.5    | 2.5    | 3.7    | 2.5    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 70°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.7    | 3.7    |
| 72.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 75°   | 1.2    | 1.2    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 77.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 80°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.5    | 2.5    | 2.5    |
| 82.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.5    | 2.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 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°    | 846.3  | 846.3  | 846.3  | 846.3 | 846.3  | 846.3 | 846.3  | 846.3 |
| 2.5°  | 1002.1 | 981.2  | 946.9  | 842.6 | 734.7  | 635.3 | 564.2  | 537.2 |
| 5°    | 1123.5 | 1085.5 | 1027.8 | 814.4 | 599.8  | 418.2 | 315.2  | 274.7 |
| 7.5°  | 1219.2 | 1170.1 | 1086.7 | 765.4 | 440.3  | 223.2 | 133.7  | 105.5 |
| 10°   | 1282.9 | 1229.0 | 1119.8 | 693.0 | 291.9  | 104.3 | 50.3   | 41.7  |
| 12.5° | 1329.6 | 1262.1 | 1132.1 | 599.8 | 171.7  | 47.8  | 27.0   | 24.5  |
| 15°   | 1363.9 | 1276.8 | 1117.4 | 485.7 | 94.4   | 28.2  | 22.1   | 22.1  |
| 17.5° | 1411.7 | 1284.2 | 1081.8 | 358.1 | 54.0   | 20.9  | 20.9   | 20.9  |
| 20°   | 1448.5 | 1284.2 | 1014.3 | 244.1 | 33.1   | 18.4  | 18.4   | 18.4  |
| 22.5° | 1466.9 | 1264.6 | 932.2  | 154.5 | 23.3   | 17.2  | 18.4   | 18.4  |
| 25°   | 1448.5 | 1216.7 | 826.7  | 94.4  | 18.4   | 15.9  | 17.2   | 18.4  |
| 27.5° | 1381.1 | 1121.0 | 685.6  | 60.1  | 14.7   | 15.9  | 17.2   | 18.4  |
| 30°   | 1268.2 | 982.4  | 526.2  | 39.2  | 13.5   | 15.9  | 17.2   | 18.4  |
| 32.5° | 1108.8 | 776.4  | 341.0  | 25.8  | 12.3   | 15.9  | 17.2   | 18.4  |
| 35°   | 865.9  | 549.5  | 206.1  | 15.9  | 12.3   | 15.9  | 18.4   | 19.6  |
| 37.5° | 648.8  | 366.7  | 111.6  | 9.8   | 12.3   | 15.9  | 18.4   | 19.6  |
| 40°   | 450.1  | 213.4  | 47.8   | 8.6   | 12.3   | 17.2  | 19.6   | 19.6  |
| 42.5° | 261.3  | 84.6   | 12.3   | 7.4   | 12.3   | 17.2  | 19.6   | 20.9  |
| 45°   | 95.7   | 17.2   | 3.7    | 7.4   | 13.5   | 17.2  | 19.6   | 22.1  |
| 47.5° | 13.5   | 3.7    | 3.7    | 7.4   | 13.5   | 17.2  | 20.9   | 22.1  |
| 50°   | 3.7    | 3.7    | 3.7    | 7.4   | 13.5   | 18.4  | 22.1   | 23.3  |
| 52.5° | 3.7    | 3.7    | 3.7    | 7.4   | 13.5   | 18.4  | 22.1   | 23.3  |
| 55°   | 3.7    | 3.7    | 3.7    | 7.4   | 13.5   | 18.4  | 22.1   | 23.3  |
| 57.5° | 3.7    | 3.7    | 3.7    | 7.4   | 13.5   | 18.4  | 22.1   | 23.3  |
| 60°   | 3.7    | 3.7    | 3.7    | 7.4   | 12.3   | 18.4  | 22.1   | 23.3  |
| 62.5° | 3.7    | 3.7    | 3.7    | 7.4   | 12.3   | 17.2  | 20.9   | 22.1  |
| 65°   | 3.7    | 3.7    | 3.7    | 7.4   | 11.0   | 15.9  | 20.9   | 20.9  |
| 67.5° | 3.7    | 3.7    | 3.7    | 6.1   | 11.0   | 15.9  | 19.6   | 20.9  |
| 70°   | 3.7    | 3.7    | 3.7    | 6.1   | 9.8    | 14.7  | 18.4   | 19.6  |
| 72.5° | 3.7    | 3.7    | 3.7    | 4.9   | 8.6    | 13.5  | 17.2   | 18.4  |
| 75°   | 2.5    | 3.7    | 3.7    | 4.9   | 8.6    | 12.3  | 15.9   | 17.2  |
| 77.5° | 2.5    | 3.7    | 3.7    | 3.7   | 7.4    | 9.8   | 13.5   | 14.7  |
| 80°   | 2.5    | 2.5    | 3.7    | 3.7   | 6.1    | 8.6   | 11.0   | 12.3  |
| 82.5° | 2.5    | 2.5    | 2.5    | 3.7   | 4.9    | 6.1   | 8.6    | 8.6   |
| 85°   | 2.5    | 2.5    | 2.5    | 2.5   | 3.7    | 4.9   | 6.1    | 6.1   |
| 87.5° | 1.2    | 1.2    | 2.5    | 2.5   | 2.5    | 2.5   | 2.5    | 2.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)