

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: P1309165

Luminaire Tested: P3SQAS13R459035DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R459035DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

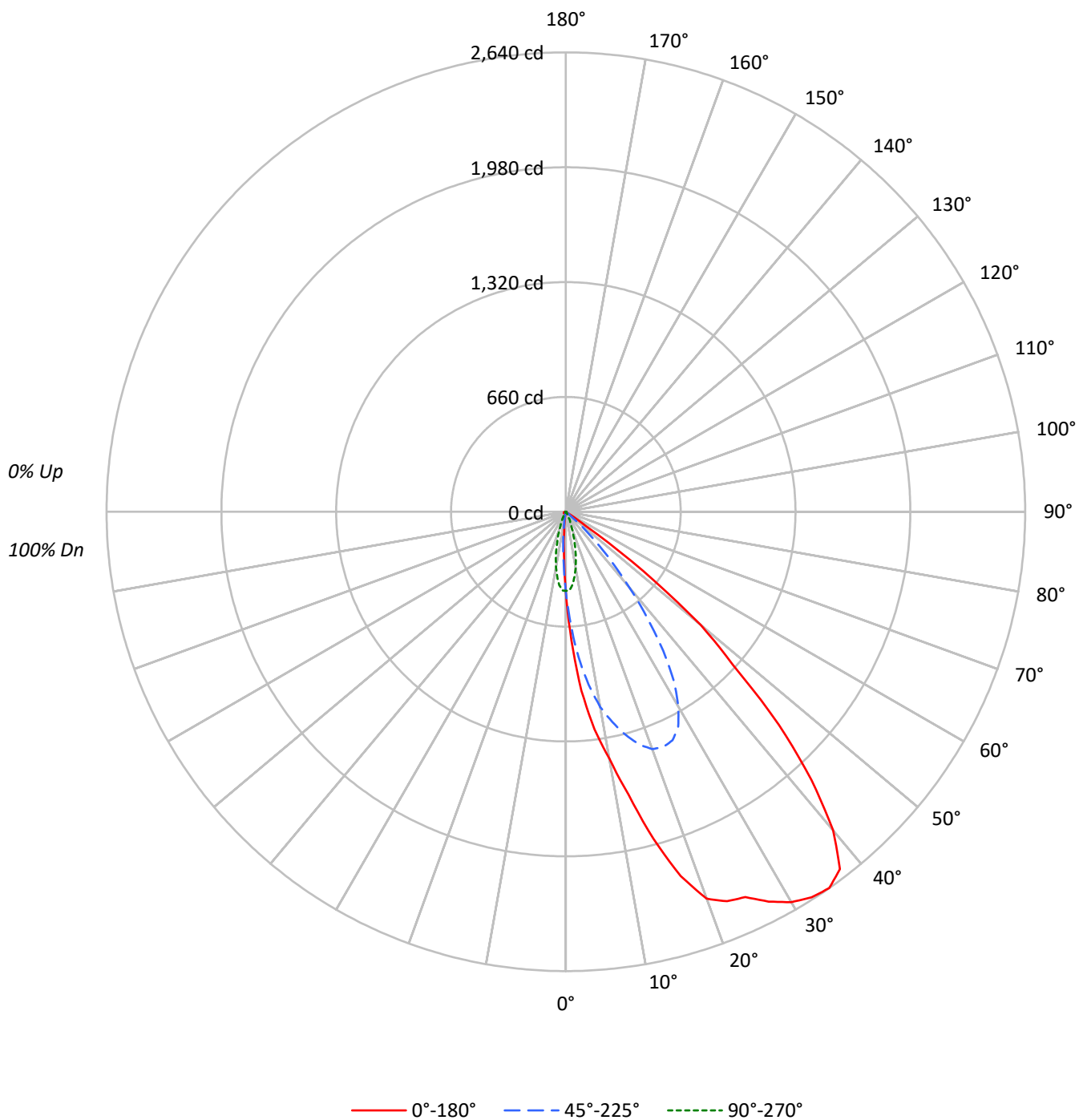
Lumens per Lamp: N/A  
Luminaire Lumens: 1196.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1309165

CATALOG NUMBER: P3SQAS13R459035DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1309165

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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 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 93  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 95  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 76  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 68  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 62  | 62  | 60  |
| 6   | 81  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 56  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 51  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 46  | 46  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 78379  | 78379  | 78379 | 78379 | 78379 |
| 5°  | 178620 | 144908 | 73319 | 29390 | 20054 |
| 10° | 251704 | 199065 | 56678 | 6471  | 2973  |
| 15° | 346861 | 236833 | 36194 | 2140  | 1783  |
| 20° | 433721 | 265988 | 18877 | 1466  | 1466  |
| 25° | 464140 | 275406 | 8741  | 1140  | 1330  |
| 30° | 515181 | 257193 | 3977  | 1193  | 1392  |
| 35° | 554963 | 205031 | 1261  | 1261  | 1682  |
| 40° | 536984 | 127046 | 674   | 1574  | 2023  |
| 45° | 421699 | 59940  | 731   | 1948  | 2436  |
| 50° | 270932 | 6966   | 1072  | 2411  | 3215  |
| 55° | 41136  | 601    | 1201  | 3003  | 3903  |
| 60° | 689    | 689    | 1378  | 3444  | 4133  |
| 65° | 815    | 815    | 1630  | 3668  | 4890  |
| 70° | 1007   | 1007   | 2014  | 4028  | 5539  |
| 75° | 665    | 1331   | 2662  | 4658  | 5989  |
| 80° | 992    | 1984   | 2975  | 4959  | 6943  |
| 85° | 0      | 1976   | 3952  | 5928  | 5928  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 421699 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.8   | 4.2       |
| 10°-20°   | 180.1  | 15.1      |
| 20°-30°   | 316.4  | 26.5      |
| 30°-40°   | 359.2  | 30.0      |
| 40°-50°   | 232.6  | 19.4      |
| 50°-60°   | 45.7   | 3.8       |
| 60°-70°   | 5.5    | 0.5       |
| 70°-80°   | 4.6    | 0.4       |
| 80°-90°   | 2.1    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 546.2  | 45.7      |
| 0°-40°    | 905.5  | 75.7      |
| 0°-60°    | 1183.7 | 99.0      |
| 0°-90°    | 1196.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1196.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 455  | 455  | 455 | 455  | 455  |      |
| 5°  | 1033 | 838  | 424 | 170  | 116  | 110  |
| 15° | 1945 | 1328 | 203 | 12   | 10   | 560  |
| 25° | 2442 | 1449 | 46  | 6    | 7    | 1145 |
| 35° | 2640 | 975  | 6   | 6    | 8    | 1623 |
| 45° | 1731 | 246  | 3   | 8    | 10   | 1305 |
| 55° | 137  | 2    | 4   | 10   | 13   | 262  |
| 65° | 2    | 2    | 4   | 9    | 12   | 2    |
| 75° | 1    | 2    | 4   | 7    | 9    | 1    |
| 85° | 0    | 1    | 2   | 3    | 3    | 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°    | 455.1  | 455.1  | 455.1  | 455.1  | 455.1  | 455.1  | 455.1  | 455.1  | 455.1  | 455.1  | 455.1  |
| 2.5°  | 739.2  | 737.2  | 740.2  | 720.2  | 719.2  | 704.2  | 700.2  | 683.2  | 660.1  | 649.1  | 623.1  |
| 5°    | 1033.2 | 1023.2 | 1023.2 | 999.2  | 991.2  | 974.2  | 945.2  | 909.2  | 879.2  | 838.2  | 794.2  |
| 7.5°  | 1260.3 | 1258.3 | 1258.3 | 1237.3 | 1217.3 | 1193.3 | 1154.3 | 1113.2 | 1065.2 | 1002.2 | 938.2  |
| 10°   | 1439.3 | 1442.3 | 1433.3 | 1414.3 | 1385.3 | 1359.3 | 1313.3 | 1263.3 | 1204.3 | 1138.3 | 1053.2 |
| 12.5° | 1665.4 | 1643.4 | 1636.4 | 1593.4 | 1556.3 | 1506.3 | 1451.3 | 1394.3 | 1321.3 | 1238.3 | 1142.3 |
| 15°   | 1945.4 | 1917.4 | 1889.4 | 1832.4 | 1770.4 | 1693.4 | 1607.4 | 1523.3 | 1429.3 | 1328.3 | 1208.3 |
| 17.5° | 2195.5 | 2195.5 | 2158.5 | 2068.5 | 1988.4 | 1874.4 | 1758.4 | 1646.4 | 1535.3 | 1402.3 | 1252.3 |
| 20°   | 2366.5 | 2357.5 | 2329.5 | 2263.5 | 2172.5 | 2043.5 | 1892.4 | 1735.4 | 1601.4 | 1451.3 | 1277.3 |
| 22.5° | 2422.5 | 2420.5 | 2421.5 | 2382.5 | 2309.5 | 2175.5 | 1990.4 | 1805.4 | 1637.4 | 1463.3 | 1265.3 |
| 25°   | 2442.5 | 2446.5 | 2456.6 | 2441.5 | 2386.5 | 2252.5 | 2050.5 | 1838.4 | 1648.4 | 1449.3 | 1219.3 |
| 27.5° | 2525.6 | 2517.6 | 2528.6 | 2518.6 | 2456.6 | 2296.5 | 2062.5 | 1830.4 | 1624.4 | 1398.3 | 1137.3 |
| 30°   | 2590.6 | 2588.6 | 2607.6 | 2598.6 | 2517.6 | 2324.5 | 2051.5 | 1800.4 | 1565.4 | 1293.3 | 1008.2 |
| 32.5° | 2627.6 | 2628.6 | 2633.6 | 2596.6 | 2476.6 | 2263.5 | 1997.4 | 1739.4 | 1454.3 | 1156.3 | 840.2  |
| 35°   | 2639.6 | 2633.6 | 2605.6 | 2514.6 | 2350.5 | 2122.5 | 1864.4 | 1594.4 | 1303.3 | 975.2  | 664.1  |
| 37.5° | 2587.6 | 2556.6 | 2484.6 | 2348.5 | 2158.5 | 1945.4 | 1694.4 | 1411.3 | 1096.2 | 770.2  | 495.1  |
| 40°   | 2388.5 | 2347.5 | 2256.5 | 2117.5 | 1940.4 | 1734.4 | 1477.3 | 1181.3 | 850.2  | 565.1  | 348.1  |
| 42.5° | 2090.5 | 2069.5 | 1974.4 | 1853.4 | 1703.4 | 1495.3 | 1230.3 | 930.2  | 629.1  | 390.1  | 222.0  |
| 45°   | 1731.4 | 1704.4 | 1644.4 | 1537.3 | 1419.3 | 1201.3 | 954.2  | 666.1  | 429.1  | 246.1  | 110.0  |
| 47.5° | 1298.3 | 1300.3 | 1259.3 | 1178.3 | 1062.2 | 880.2  | 653.1  | 447.1  | 269.1  | 127.0  | 25.0   |
| 50°   | 1011.2 | 997.2  | 939.2  | 856.2  | 721.2  | 586.1  | 422.1  | 282.1  | 142.0  | 26.0   | 2.0    |
| 52.5° | 560.1  | 569.1  | 538.1  | 511.1  | 441.1  | 350.1  | 249.1  | 143.0  | 30.0   | 3.0    | 2.0    |
| 55°   | 137.0  | 145.0  | 139.0  | 142.0  | 147.0  | 131.0  | 101.0  | 28.0   | 3.0    | 2.0    | 2.0    |
| 57.5° | 3.0    | 3.0    | 3.0    | 3.0    | 5.0    | 7.0    | 7.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 60°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 62.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 65°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 67.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 70°   | 2.0    | 2.0    | 2.0    | 1.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 72.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    | 2.0    |
| 75°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    | 2.0    |
| 77.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    |
| 80°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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°    | 455.1  | 455.1 | 455.1 | 455.1 | 455.1  | 455.1 | 455.1  | 455.1 |
| 2.5°  | 610.1  | 591.1 | 556.1 | 452.1 | 363.1  | 293.1 | 251.1  | 247.1 |
| 5°    | 755.2  | 704.2 | 630.1 | 424.1 | 268.1  | 170.0 | 123.0  | 116.0 |
| 7.5°  | 870.2  | 798.2 | 684.2 | 378.1 | 183.0  | 87.0  | 48.0   | 40.0  |
| 10°   | 965.2  | 863.2 | 712.2 | 324.1 | 115.0  | 37.0  | 20.0   | 17.0  |
| 12.5° | 1030.2 | 907.2 | 717.2 | 264.1 | 66.0   | 18.0  | 13.0   | 12.0  |
| 15°   | 1072.2 | 921.2 | 693.2 | 203.0 | 37.0   | 12.0  | 11.0   | 10.0  |
| 17.5° | 1089.2 | 909.2 | 647.1 | 147.0 | 20.0   | 9.0   | 9.0    | 9.0   |
| 20°   | 1081.2 | 870.2 | 579.1 | 103.0 | 13.0   | 8.0   | 8.0    | 8.0   |
| 22.5° | 1043.2 | 803.2 | 494.1 | 69.0  | 9.0    | 7.0   | 7.0    | 7.0   |
| 25°   | 968.2  | 712.2 | 404.1 | 46.0  | 6.0    | 6.0   | 7.0    | 7.0   |
| 27.5° | 856.2  | 600.1 | 309.1 | 31.0  | 5.0    | 6.0   | 7.0    | 7.0   |
| 30°   | 715.2  | 475.1 | 222.0 | 20.0  | 5.0    | 6.0   | 6.0    | 7.0   |
| 32.5° | 568.1  | 346.1 | 146.0 | 12.0  | 4.0    | 6.0   | 7.0    | 8.0   |
| 35°   | 412.1  | 236.1 | 93.0  | 6.0   | 5.0    | 6.0   | 7.0    | 8.0   |
| 37.5° | 289.1  | 154.0 | 54.0  | 4.0   | 5.0    | 6.0   | 8.0    | 8.0   |
| 40°   | 188.0  | 86.0  | 20.0  | 3.0   | 5.0    | 7.0   | 8.0    | 9.0   |
| 42.5° | 98.0   | 30.0  | 4.0   | 3.0   | 5.0    | 7.0   | 9.0    | 10.0  |
| 45°   | 25.0   | 4.0   | 1.0   | 3.0   | 6.0    | 8.0   | 10.0   | 10.0  |
| 47.5° | 3.0    | 1.0   | 1.0   | 4.0   | 6.0    | 9.0   | 10.0   | 11.0  |
| 50°   | 1.0    | 2.0   | 2.0   | 4.0   | 6.0    | 9.0   | 11.0   | 12.0  |
| 52.5° | 2.0    | 2.0   | 2.0   | 4.0   | 7.0    | 9.0   | 12.0   | 13.0  |
| 55°   | 2.0    | 2.0   | 2.0   | 4.0   | 7.0    | 10.0  | 12.0   | 13.0  |
| 57.5° | 2.0    | 2.0   | 2.0   | 4.0   | 7.0    | 10.0  | 12.0   | 12.0  |
| 60°   | 2.0    | 2.0   | 2.0   | 4.0   | 7.0    | 10.0  | 12.0   | 12.0  |
| 62.5° | 2.0    | 2.0   | 3.0   | 4.0   | 7.0    | 9.0   | 12.0   | 12.0  |
| 65°   | 2.0    | 3.0   | 3.0   | 4.0   | 7.0    | 9.0   | 11.0   | 12.0  |
| 67.5° | 2.0    | 2.0   | 3.0   | 4.0   | 7.0    | 9.0   | 11.0   | 12.0  |
| 70°   | 2.0    | 2.0   | 3.0   | 4.0   | 6.0    | 8.0   | 10.0   | 11.0  |
| 72.5° | 2.0    | 2.0   | 3.0   | 4.0   | 6.0    | 8.0   | 9.0    | 10.0  |
| 75°   | 2.0    | 2.0   | 3.0   | 4.0   | 5.0    | 7.0   | 9.0    | 9.0   |
| 77.5° | 2.0    | 2.0   | 3.0   | 3.0   | 5.0    | 6.0   | 8.0    | 8.0   |
| 80°   | 2.0    | 2.0   | 3.0   | 3.0   | 4.0    | 5.0   | 6.0    | 7.0   |
| 82.5° | 2.0    | 2.0   | 2.0   | 3.0   | 3.0    | 4.0   | 5.0    | 5.0   |
| 85°   | 2.0    | 2.0   | 2.0   | 2.0   | 2.0    | 3.0   | 3.0    | 3.0   |
| 87.5° | 1.0    | 2.0   | 2.0   | 2.0   | 2.0    | 2.0   | 2.0    | 1.0   |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)