

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: P1309495

Luminaire Tested: P3SQAS20R609035D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R609035D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

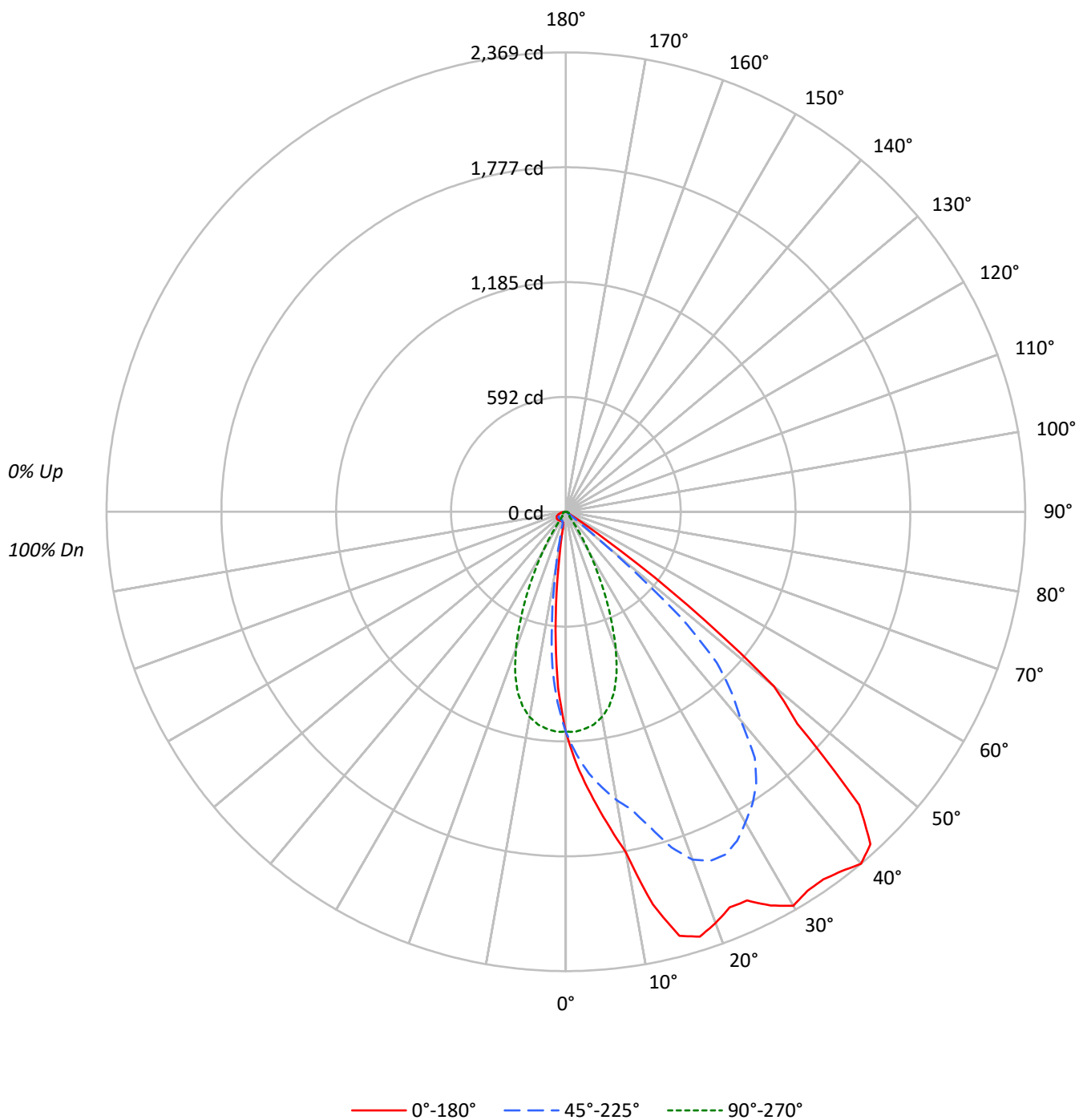
Lumens per Lamp: N/A  
Luminaire Lumens: 1842.0 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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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### 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 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 90  |    |    |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 94  | 90  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 81  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 72  |    |    |
| 4   | 91  | 82  | 75  | 70  | 89  | 80  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  |    |    |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  |    |    |
| 6   | 79  | 68  | 61  | 56  | 78  | 67  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 41  | 38  | 36  |    |    |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 195283 | 195283 | 195283 | 195283 | 195283 |
| 5°  | 252250 | 234201 | 194214 | 138304 | 105526 |
| 10° | 311740 | 263981 | 187943 | 52306  | 15512  |
| 15° | 403720 | 300468 | 171469 | 11465  | 10234  |
| 20° | 413708 | 349965 | 138006 | 9567   | 9879   |
| 25° | 420358 | 370457 | 92524  | 9254   | 9919   |
| 30° | 466539 | 367981 | 47728  | 9347   | 10381  |
| 35° | 486654 | 359792 | 13161  | 9882   | 11332  |
| 40° | 532510 | 315513 | 6250   | 10567  | 12523  |
| 45° | 520998 | 268110 | 6357   | 11447  | 13980  |
| 50° | 375559 | 66152  | 6993   | 12593  | 15379  |
| 55° | 72063  | 4174   | 7296   | 13572  | 17235  |
| 60° | 3582   | 4202   | 7199   | 14363  | 18566  |
| 65° | 3545   | 4238   | 7091   | 14874  | 19846  |
| 70° | 3525   | 4381   | 6999   | 14905  | 20142  |
| 75° | 3460   | 4658   | 6920   | 15038  | 20828  |
| 80° | 1686   | 5157   | 6943   | 15571  | 20728  |
| 85° | 3359   | 3359   | 6916   | 13832  | 20551  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 520998 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.6   | 5.4       |
| 10°-20°   | 272.2  | 14.8      |
| 20°-30°   | 419.0  | 22.7      |
| 30°-40°   | 491.6  | 26.7      |
| 40°-50°   | 394.2  | 21.4      |
| 50°-60°   | 122.4  | 6.6       |
| 60°-70°   | 23.1   | 1.3       |
| 70°-80°   | 15.4   | 0.8       |
| 80°-90°   | 5.3    | 0.3       |
| 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°    | 789.8  | 42.9      |
| 0°-40°    | 1281.5 | 69.6      |
| 0°-60°    | 1798.1 | 97.6      |
| 0°-90°    | 1842.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1842.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1134 | 1134 | 1134 | 1134 | 1134 |      |
| 5°  | 1459 | 1355 | 1123 | 800  | 610  | 149  |
| 15° | 2264 | 1685 | 962  | 64   | 57   | 620  |
| 25° | 2212 | 1950 | 487  | 49   | 52   | 1044 |
| 35° | 2315 | 1711 | 63   | 47   | 54   | 1465 |
| 45° | 2139 | 1101 | 26   | 47   | 57   | 1531 |
| 55° | 240  | 14   | 24   | 45   | 57   | 380  |
| 65° | 9    | 10   | 17   | 36   | 49   | 8    |
| 75° | 5    | 7    | 10   | 23   | 31   | 5    |
| 85° | 2    | 2    | 4    | 7    | 10   | 1    |
| 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°    | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 |
| 2.5°  | 1307.8 | 1293.9 | 1293.9 | 1288.7 | 1283.4 | 1285.2 | 1271.3 | 1276.5 | 1262.6 | 1252.1 | 1243.4 |
| 5°    | 1459.1 | 1441.7 | 1440.0 | 1431.3 | 1422.6 | 1415.6 | 1398.2 | 1387.8 | 1366.9 | 1354.7 | 1328.7 |
| 7.5°  | 1615.6 | 1601.7 | 1593.0 | 1582.6 | 1566.9 | 1549.5 | 1520.0 | 1500.8 | 1467.8 | 1434.7 | 1401.7 |
| 10°   | 1782.6 | 1770.4 | 1751.3 | 1739.1 | 1695.6 | 1667.8 | 1627.8 | 1601.7 | 1553.0 | 1509.5 | 1459.1 |
| 12.5° | 2074.7 | 2067.8 | 2031.2 | 2006.9 | 1944.3 | 1888.6 | 1801.7 | 1732.1 | 1645.2 | 1573.9 | 1506.0 |
| 15°   | 2264.3 | 2255.6 | 2236.5 | 2213.8 | 2173.8 | 2111.2 | 2033.0 | 1935.6 | 1813.9 | 1685.2 | 1570.4 |
| 17.5° | 2297.3 | 2299.1 | 2286.9 | 2281.7 | 2255.6 | 2215.6 | 2153.0 | 2079.9 | 1958.2 | 1815.6 | 1659.1 |
| 20°   | 2257.3 | 2271.2 | 2267.8 | 2278.2 | 2283.4 | 2267.8 | 2226.0 | 2154.7 | 2048.6 | 1909.5 | 1733.9 |
| 22.5° | 2208.6 | 2220.8 | 2217.3 | 2236.5 | 2266.0 | 2281.7 | 2267.8 | 2210.4 | 2102.5 | 1947.8 | 1775.6 |
| 25°   | 2212.1 | 2220.8 | 2194.7 | 2206.9 | 2245.1 | 2283.4 | 2285.1 | 2234.7 | 2118.2 | 1949.5 | 1772.1 |
| 27.5° | 2288.6 | 2262.5 | 2203.4 | 2198.2 | 2245.1 | 2293.8 | 2297.3 | 2234.7 | 2095.6 | 1913.0 | 1737.3 |
| 30°   | 2346.0 | 2326.9 | 2260.8 | 2252.1 | 2297.3 | 2330.4 | 2313.0 | 2215.6 | 2041.7 | 1850.4 | 1686.9 |
| 32.5° | 2318.2 | 2321.7 | 2293.8 | 2321.7 | 2380.8 | 2394.7 | 2321.7 | 2170.4 | 1966.9 | 1789.5 | 1627.8 |
| 35°   | 2314.7 | 2328.6 | 2344.3 | 2387.8 | 2427.8 | 2394.7 | 2278.2 | 2085.2 | 1886.9 | 1711.3 | 1535.6 |
| 37.5° | 2335.6 | 2358.2 | 2380.8 | 2419.1 | 2419.1 | 2333.8 | 2163.4 | 1977.3 | 1791.2 | 1600.0 | 1344.3 |
| 40°   | 2368.6 | 2382.5 | 2389.5 | 2386.0 | 2339.1 | 2213.8 | 2033.0 | 1846.9 | 1669.5 | 1403.4 | 1217.4 |
| 42.5° | 2325.1 | 2323.4 | 2316.5 | 2286.9 | 2199.9 | 2036.5 | 1867.8 | 1716.5 | 1436.5 | 1266.0 | 1053.9 |
| 45°   | 2139.1 | 2139.1 | 2119.9 | 2073.0 | 1993.0 | 1857.3 | 1707.8 | 1486.9 | 1309.5 | 1100.8 | 782.6  |
| 47.5° | 1619.1 | 1606.9 | 1627.8 | 1655.6 | 1655.6 | 1643.4 | 1507.8 | 1316.5 | 1135.6 | 794.8  | 250.4  |
| 50°   | 1401.7 | 1382.6 | 1356.5 | 1361.7 | 1358.2 | 1372.1 | 1285.2 | 1140.8 | 840.0  | 246.9  | 17.4   |
| 52.5° | 793.0  | 827.8  | 913.0  | 1033.0 | 1086.9 | 1106.1 | 1052.1 | 867.8  | 283.5  | 15.7   | 13.9   |
| 55°   | 240.0  | 246.9  | 280.0  | 344.3  | 467.8  | 598.2  | 606.9  | 281.7  | 19.1   | 13.9   | 13.9   |
| 57.5° | 10.4   | 10.4   | 13.9   | 20.9   | 48.7   | 73.0   | 78.3   | 17.4   | 12.2   | 13.9   | 13.9   |
| 60°   | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   | 12.2   | 12.2   | 12.2   | 12.2   | 13.9   |
| 62.5° | 8.7    | 8.7    | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   | 12.2   | 12.2   | 12.2   |
| 65°   | 8.7    | 8.7    | 8.7    | 8.7    | 8.7    | 8.7    | 10.4   | 10.4   | 10.4   | 10.4   | 12.2   |
| 67.5° | 7.0    | 7.0    | 7.0    | 8.7    | 8.7    | 8.7    | 8.7    | 8.7    | 10.4   | 10.4   | 10.4   |
| 70°   | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 8.7    | 8.7    | 8.7    | 8.7    |
| 72.5° | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 8.7    |
| 75°   | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 7.0    | 7.0    | 7.0    | 7.0    |
| 77.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 80°   | 1.7    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 5.2    | 5.2    |
| 82.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 85°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 3.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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°    | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 |
| 2.5°  | 1231.3 | 1217.4 | 1201.7 | 1135.6 | 1071.3 | 984.3  | 925.2  | 907.8  |
| 5°    | 1306.0 | 1283.4 | 1248.7 | 1123.4 | 972.1  | 800.0  | 660.8  | 610.4  |
| 7.5°  | 1368.7 | 1333.9 | 1285.2 | 1106.1 | 853.9  | 542.6  | 349.6  | 295.6  |
| 10°   | 1413.9 | 1370.4 | 1307.8 | 1074.7 | 697.4  | 299.1  | 118.3  | 88.7   |
| 12.5° | 1452.1 | 1394.7 | 1320.0 | 1027.8 | 507.8  | 121.7  | 60.9   | 60.9   |
| 15°   | 1478.2 | 1408.7 | 1325.2 | 961.7  | 328.7  | 64.3   | 57.4   | 57.4   |
| 17.5° | 1514.7 | 1424.3 | 1325.2 | 869.5  | 179.1  | 55.7   | 55.7   | 55.7   |
| 20°   | 1573.9 | 1440.0 | 1306.0 | 753.0  | 99.1   | 52.2   | 53.9   | 53.9   |
| 22.5° | 1605.2 | 1462.6 | 1281.7 | 617.4  | 62.6   | 50.4   | 52.2   | 52.2   |
| 25°   | 1612.1 | 1459.1 | 1229.5 | 486.9  | 50.4   | 48.7   | 50.4   | 52.2   |
| 27.5° | 1587.8 | 1434.7 | 1160.0 | 354.8  | 45.2   | 47.0   | 50.4   | 52.2   |
| 30°   | 1544.3 | 1375.6 | 1048.7 | 240.0  | 41.7   | 47.0   | 50.4   | 52.2   |
| 32.5° | 1462.6 | 1233.0 | 918.2  | 144.3  | 40.0   | 47.0   | 50.4   | 53.9   |
| 35°   | 1280.0 | 1083.4 | 768.7  | 62.6   | 38.3   | 47.0   | 52.2   | 53.9   |
| 37.5° | 1147.8 | 933.9  | 594.8  | 31.3   | 38.3   | 47.0   | 52.2   | 55.7   |
| 40°   | 1001.7 | 751.3  | 274.8  | 27.8   | 38.3   | 47.0   | 52.2   | 55.7   |
| 42.5° | 763.5  | 347.8  | 33.0   | 27.8   | 36.5   | 47.0   | 53.9   | 55.7   |
| 45°   | 278.3  | 36.5   | 17.4   | 26.1   | 36.5   | 47.0   | 53.9   | 57.4   |
| 47.5° | 20.9   | 13.9   | 15.7   | 26.1   | 36.5   | 47.0   | 53.9   | 57.4   |
| 50°   | 13.9   | 13.9   | 15.7   | 26.1   | 36.5   | 47.0   | 53.9   | 57.4   |
| 52.5° | 13.9   | 15.7   | 15.7   | 24.3   | 34.8   | 47.0   | 53.9   | 57.4   |
| 55°   | 13.9   | 15.7   | 15.7   | 24.3   | 34.8   | 45.2   | 53.9   | 57.4   |
| 57.5° | 13.9   | 13.9   | 15.7   | 22.6   | 33.0   | 43.5   | 53.9   | 55.7   |
| 60°   | 13.9   | 13.9   | 15.7   | 20.9   | 31.3   | 41.7   | 50.4   | 53.9   |
| 62.5° | 13.9   | 13.9   | 13.9   | 19.1   | 29.6   | 40.0   | 48.7   | 52.2   |
| 65°   | 12.2   | 12.2   | 13.9   | 17.4   | 26.1   | 36.5   | 45.2   | 48.7   |
| 67.5° | 10.4   | 12.2   | 12.2   | 15.7   | 24.3   | 33.0   | 41.7   | 45.2   |
| 70°   | 10.4   | 10.4   | 10.4   | 13.9   | 20.9   | 29.6   | 38.3   | 40.0   |
| 72.5° | 8.7    | 8.7    | 10.4   | 12.2   | 19.1   | 26.1   | 34.8   | 36.5   |
| 75°   | 7.0    | 8.7    | 8.7    | 10.4   | 15.7   | 22.6   | 29.6   | 31.3   |
| 77.5° | 7.0    | 7.0    | 7.0    | 8.7    | 13.9   | 19.1   | 24.3   | 26.1   |
| 80°   | 5.2    | 5.2    | 5.2    | 7.0    | 10.4   | 15.7   | 19.1   | 20.9   |
| 82.5° | 3.5    | 5.2    | 5.2    | 5.2    | 8.7    | 10.4   | 13.9   | 15.7   |
| 85°   | 3.5    | 3.5    | 3.5    | 3.5    | 5.2    | 7.0    | 8.7    | 10.4   |
| 87.5° | 1.7    | 1.7    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 5.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)