

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: P1315706

Luminaire Tested: P3SQAS20R509740D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R509740D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

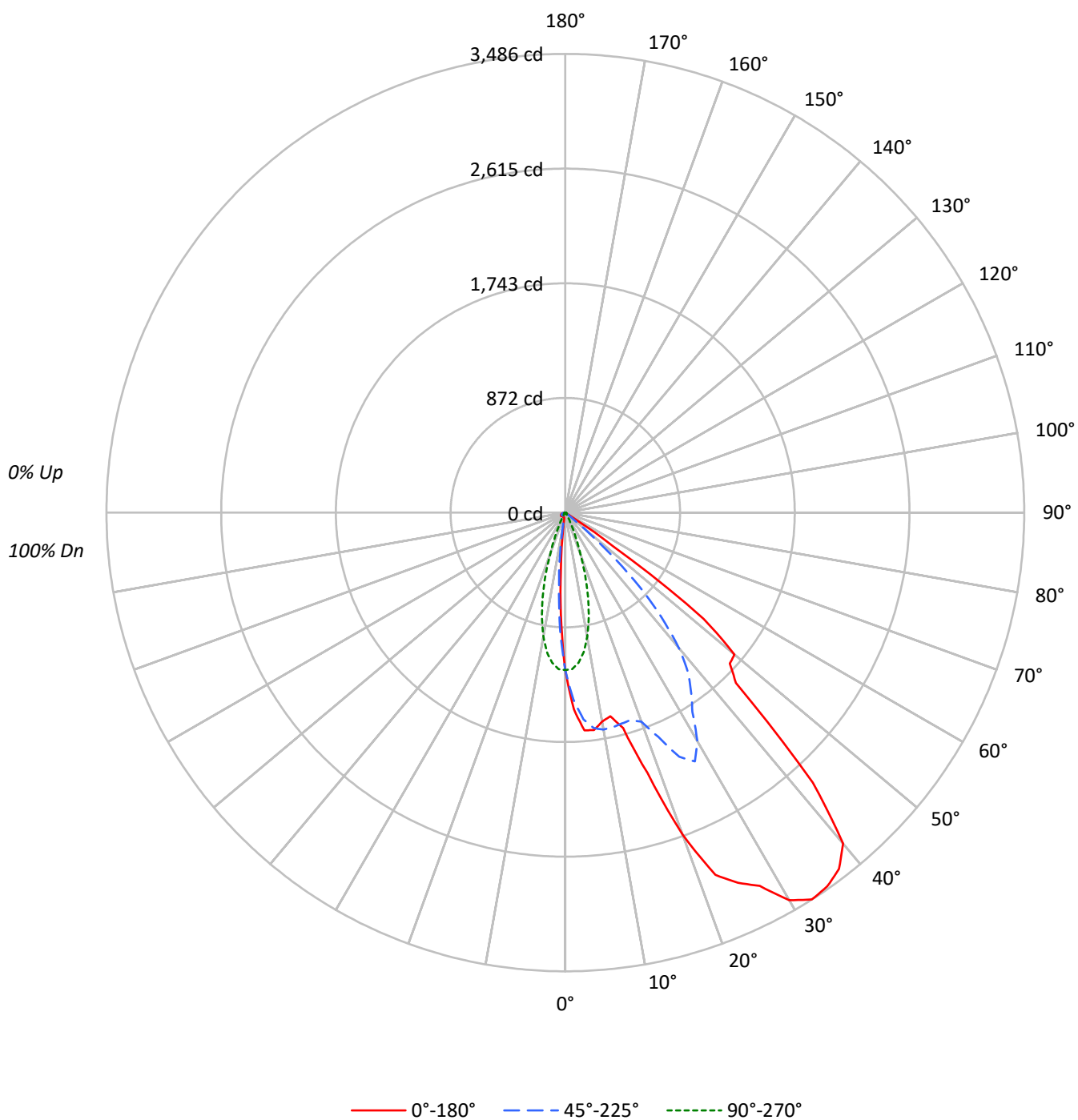
Lumens per Lamp: N/A  
Luminaire Lumens: 1860.0 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1315706

CATALOG NUMBER: P3SQAS20R509740D010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1315706

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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 | 101 | 102 | 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  | 85  | 83  | 81  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |    |    |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 68  | 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  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |    |    |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |
| 10  | 61  | 50  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 37  | 46  | 41  | 37  | 36  |    |    |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 205944 | 205944 | 205944 | 205944 | 205944 |
| 5°  | 287155 | 272442 | 197948 | 95153  | 61736  |
| 10° | 281888 | 292783 | 167307 | 20059  | 8587   |
| 15° | 302286 | 295868 | 118283 | 7007   | 6722   |
| 20° | 477359 | 309827 | 62442  | 6011   | 6305   |
| 25° | 589881 | 389099 | 24893  | 5606   | 6233   |
| 30° | 676282 | 399064 | 10102  | 5528   | 6523   |
| 35° | 729109 | 350268 | 4478   | 5845   | 7232   |
| 40° | 738041 | 301619 | 3305   | 6632   | 8094   |
| 45° | 446055 | 195505 | 3191   | 7185   | 9182   |
| 50° | 449427 | 33786  | 3510   | 8333   | 10530  |
| 55° | 132805 | 1982   | 3933   | 9338   | 11800  |
| 60° | 2273   | 2273   | 3961   | 10161  | 12986  |
| 65° | 1997   | 1997   | 3994   | 10677  | 14018  |
| 70° | 2467   | 2467   | 4129   | 11531  | 15660  |
| 75° | 2196   | 2196   | 4392   | 11978  | 16369  |
| 80° | 1587   | 3273   | 4860   | 11406  | 17852  |
| 85° | 3162   | 6521   | 6521   | 13042  | 16203  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 509502 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.7   | 5.2       |
| 10°-20°   | 240.1  | 12.9      |
| 20°-30°   | 449.8  | 24.2      |
| 30°-40°   | 537.8  | 28.9      |
| 40°-50°   | 385.4  | 20.7      |
| 50°-60°   | 118.8  | 6.4       |
| 60°-70°   | 15.5   | 0.8       |
| 70°-80°   | 11.3   | 0.6       |
| 80°-90°   | 4.6    | 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°    | 786.6  | 42.3      |
| 0°-40°    | 1324.4 | 71.2      |
| 0°-60°    | 1828.6 | 98.3      |
| 0°-90°    | 1860.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1860.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1196 | 1196 | 1196 | 1196 | 1196 |      |
| 5°  | 1661 | 1576 | 1145 | 550  | 357  | 154  |
| 15° | 1695 | 1659 | 663  | 39   | 38   | 543  |
| 25° | 3104 | 2048 | 131  | 30   | 33   | 1430 |
| 35° | 3468 | 1666 | 21   | 28   | 34   | 2151 |
| 45° | 1831 | 803  | 13   | 30   | 38   | 1682 |
| 55° | 442  | 7    | 13   | 31   | 39   | 569  |
| 65° | 5    | 5    | 10   | 26   | 34   | 5    |
| 75° | 3    | 3    | 7    | 18   | 25   | 3    |
| 85° | 2    | 3    | 3    | 7    | 8    | 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°    | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 |
| 2.5°  | 1495.6 | 1498.9 | 1503.8 | 1490.7 | 1482.5 | 1475.9 | 1464.5 | 1461.2 | 1433.3 | 1421.9 | 1410.4 |
| 5°    | 1661.0 | 1657.8 | 1661.0 | 1656.1 | 1652.9 | 1643.0 | 1633.2 | 1616.8 | 1598.8 | 1575.9 | 1549.7 |
| 7.5°  | 1666.0 | 1662.7 | 1669.2 | 1669.2 | 1675.8 | 1675.8 | 1675.8 | 1677.4 | 1667.6 | 1651.2 | 1628.3 |
| 10°   | 1611.9 | 1611.9 | 1618.5 | 1615.2 | 1626.6 | 1631.6 | 1643.0 | 1662.7 | 1672.5 | 1674.2 | 1667.6 |
| 12.5° | 1584.1 | 1584.1 | 1585.7 | 1579.1 | 1582.4 | 1587.3 | 1600.4 | 1623.4 | 1646.3 | 1669.2 | 1682.3 |
| 15°   | 1695.4 | 1698.7 | 1675.8 | 1643.0 | 1618.5 | 1592.2 | 1584.1 | 1598.8 | 1623.4 | 1659.4 | 1688.9 |
| 17.5° | 2073.8 | 2078.8 | 2054.2 | 1975.6 | 1900.2 | 1792.1 | 1695.4 | 1647.9 | 1621.7 | 1651.2 | 1690.5 |
| 20°   | 2604.6 | 2586.6 | 2544.0 | 2460.4 | 2350.7 | 2183.6 | 2032.9 | 1880.6 | 1734.8 | 1690.5 | 1703.6 |
| 22.5° | 2979.7 | 2973.2 | 2938.8 | 2845.4 | 2750.4 | 2594.8 | 2403.1 | 2190.2 | 1978.8 | 1844.5 | 1774.1 |
| 25°   | 3104.2 | 3099.3 | 3068.2 | 3012.5 | 2960.1 | 2842.1 | 2670.1 | 2455.5 | 2234.4 | 2047.6 | 1870.7 |
| 27.5° | 3197.6 | 3191.0 | 3141.9 | 3079.7 | 3025.6 | 2906.0 | 2748.8 | 2586.6 | 2383.5 | 2131.2 | 1859.3 |
| 30°   | 3400.7 | 3382.7 | 3313.9 | 3202.5 | 3099.3 | 2933.9 | 2760.2 | 2558.7 | 2283.5 | 2006.7 | 1741.3 |
| 32.5° | 3485.9 | 3476.1 | 3417.1 | 3327.0 | 3214.0 | 2997.7 | 2734.0 | 2396.6 | 2034.5 | 1795.4 | 1602.1 |
| 35°   | 3467.9 | 3453.1 | 3392.5 | 3289.3 | 3151.7 | 2943.7 | 2591.5 | 2127.9 | 1833.0 | 1666.0 | 1448.1 |
| 37.5° | 3413.8 | 3392.5 | 3320.5 | 3199.2 | 3032.1 | 2760.2 | 2299.9 | 1910.0 | 1720.0 | 1531.6 | 1238.4 |
| 40°   | 3282.8 | 3248.4 | 3164.8 | 3038.7 | 2871.6 | 2514.5 | 2034.5 | 1779.0 | 1602.1 | 1341.6 | 1004.2 |
| 42.5° | 2781.5 | 2763.5 | 2804.4 | 2783.2 | 2635.7 | 2214.7 | 1846.2 | 1659.4 | 1415.3 | 1084.4 | 727.3  |
| 45°   | 1831.4 | 1862.5 | 1936.2 | 2062.4 | 2091.9 | 1905.1 | 1692.2 | 1462.8 | 1164.7 | 802.7  | 419.4  |
| 47.5° | 1695.4 | 1688.9 | 1706.9 | 1731.5 | 1736.4 | 1657.8 | 1464.5 | 1208.9 | 864.9  | 458.7  | 116.3  |
| 50°   | 1677.4 | 1667.6 | 1652.9 | 1623.4 | 1561.1 | 1408.8 | 1189.3 | 881.3  | 499.6  | 126.1  | 8.2    |
| 52.5° | 1325.2 | 1315.4 | 1315.4 | 1272.8 | 1192.5 | 1045.1 | 820.7  | 484.9  | 139.2  | 8.2    | 6.6    |
| 55°   | 442.3  | 471.8  | 466.9  | 465.2  | 501.3  | 461.9  | 353.8  | 124.5  | 11.5   | 6.6    | 6.6    |
| 57.5° | 8.2    | 8.2    | 8.2    | 14.7   | 22.9   | 32.8   | 19.7   | 9.8    | 6.6    | 6.6    | 6.6    |
| 60°   | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 62.5° | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 65°   | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 6.6    |
| 67.5° | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 70°   | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 72.5° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 4.9    | 4.9    | 4.9    |
| 75°   | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 4.9    |
| 77.5° | 1.6    | 1.6    | 1.6    | 1.6    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 80°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 3.3    | 3.3    | 3.3    | 3.3    |
| 82.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 3.3    | 3.3    | 3.3    |
| 85°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 3.3    | 3.3    |
| 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 | 1195.8 |
| 2.5°  | 1384.2 | 1361.3 | 1317.0 | 1190.9 | 1051.7 | 892.8  | 784.7  | 771.6  |
| 5°    | 1508.7 | 1474.3 | 1402.2 | 1145.0 | 827.2  | 550.4  | 409.5  | 357.1  |
| 7.5°  | 1590.6 | 1544.7 | 1456.3 | 1069.7 | 602.8  | 289.9  | 155.6  | 124.5  |
| 10°   | 1639.7 | 1597.2 | 1484.1 | 956.7  | 383.3  | 114.7  | 52.4   | 49.1   |
| 12.5° | 1666.0 | 1625.0 | 1494.0 | 820.7  | 216.2  | 52.4   | 41.0   | 41.0   |
| 15°   | 1684.0 | 1639.7 | 1479.2 | 663.4  | 108.1  | 39.3   | 37.7   | 37.7   |
| 17.5° | 1692.2 | 1638.1 | 1436.6 | 499.6  | 57.3   | 36.0   | 36.0   | 36.0   |
| 20°   | 1697.1 | 1620.1 | 1358.0 | 340.7  | 39.3   | 32.8   | 34.4   | 34.4   |
| 22.5° | 1702.0 | 1575.9 | 1254.8 | 216.2  | 31.1   | 31.1   | 32.8   | 32.8   |
| 25°   | 1692.2 | 1498.9 | 1109.0 | 131.0  | 27.8   | 29.5   | 31.1   | 32.8   |
| 27.5° | 1621.7 | 1382.6 | 932.1  | 80.3   | 24.6   | 27.8   | 31.1   | 32.8   |
| 30°   | 1500.5 | 1212.2 | 727.3  | 50.8   | 22.9   | 27.8   | 31.1   | 32.8   |
| 32.5° | 1343.3 | 1017.3 | 519.3  | 31.1   | 22.9   | 27.8   | 31.1   | 32.8   |
| 35°   | 1131.9 | 778.1  | 337.5  | 21.3   | 22.9   | 27.8   | 32.8   | 34.4   |
| 37.5° | 894.4  | 543.9  | 181.8  | 16.4   | 22.9   | 27.8   | 32.8   | 34.4   |
| 40°   | 643.8  | 326.0  | 65.5   | 14.7   | 21.3   | 29.5   | 34.4   | 36.0   |
| 42.5° | 376.8  | 121.2  | 11.5   | 13.1   | 21.3   | 29.5   | 34.4   | 36.0   |
| 45°   | 108.1  | 13.1   | 6.6    | 13.1   | 21.3   | 29.5   | 36.0   | 37.7   |
| 47.5° | 8.2    | 4.9    | 6.6    | 13.1   | 21.3   | 29.5   | 36.0   | 39.3   |
| 50°   | 4.9    | 4.9    | 4.9    | 13.1   | 21.3   | 31.1   | 37.7   | 39.3   |
| 52.5° | 6.6    | 6.6    | 6.6    | 13.1   | 21.3   | 31.1   | 37.7   | 39.3   |
| 55°   | 6.6    | 6.6    | 6.6    | 13.1   | 21.3   | 31.1   | 37.7   | 39.3   |
| 57.5° | 6.6    | 6.6    | 6.6    | 13.1   | 21.3   | 29.5   | 37.7   | 39.3   |
| 60°   | 6.6    | 6.6    | 6.6    | 11.5   | 19.7   | 29.5   | 36.0   | 37.7   |
| 62.5° | 6.6    | 6.6    | 6.6    | 11.5   | 19.7   | 27.8   | 36.0   | 36.0   |
| 65°   | 6.6    | 6.6    | 6.6    | 9.8    | 18.0   | 26.2   | 32.8   | 34.4   |
| 67.5° | 6.6    | 6.6    | 6.6    | 9.8    | 16.4   | 24.6   | 31.1   | 32.8   |
| 70°   | 4.9    | 6.6    | 6.6    | 8.2    | 14.7   | 22.9   | 29.5   | 31.1   |
| 72.5° | 4.9    | 4.9    | 6.6    | 8.2    | 13.1   | 19.7   | 26.2   | 27.8   |
| 75°   | 4.9    | 4.9    | 4.9    | 6.6    | 11.5   | 18.0   | 22.9   | 24.6   |
| 77.5° | 4.9    | 4.9    | 4.9    | 6.6    | 9.8    | 14.7   | 21.3   | 21.3   |
| 80°   | 3.3    | 4.9    | 4.9    | 4.9    | 8.2    | 11.5   | 16.4   | 18.0   |
| 82.5° | 3.3    | 3.3    | 3.3    | 4.9    | 6.6    | 9.8    | 13.1   | 13.1   |
| 85°   | 3.3    | 3.3    | 3.3    | 3.3    | 4.9    | 6.6    | 8.2    | 8.2    |
| 87.5° | 1.6    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)