

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: P1308514

Luminaire Tested: P3SQAS24R559030D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308514  
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: P3SQAS24R559030D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

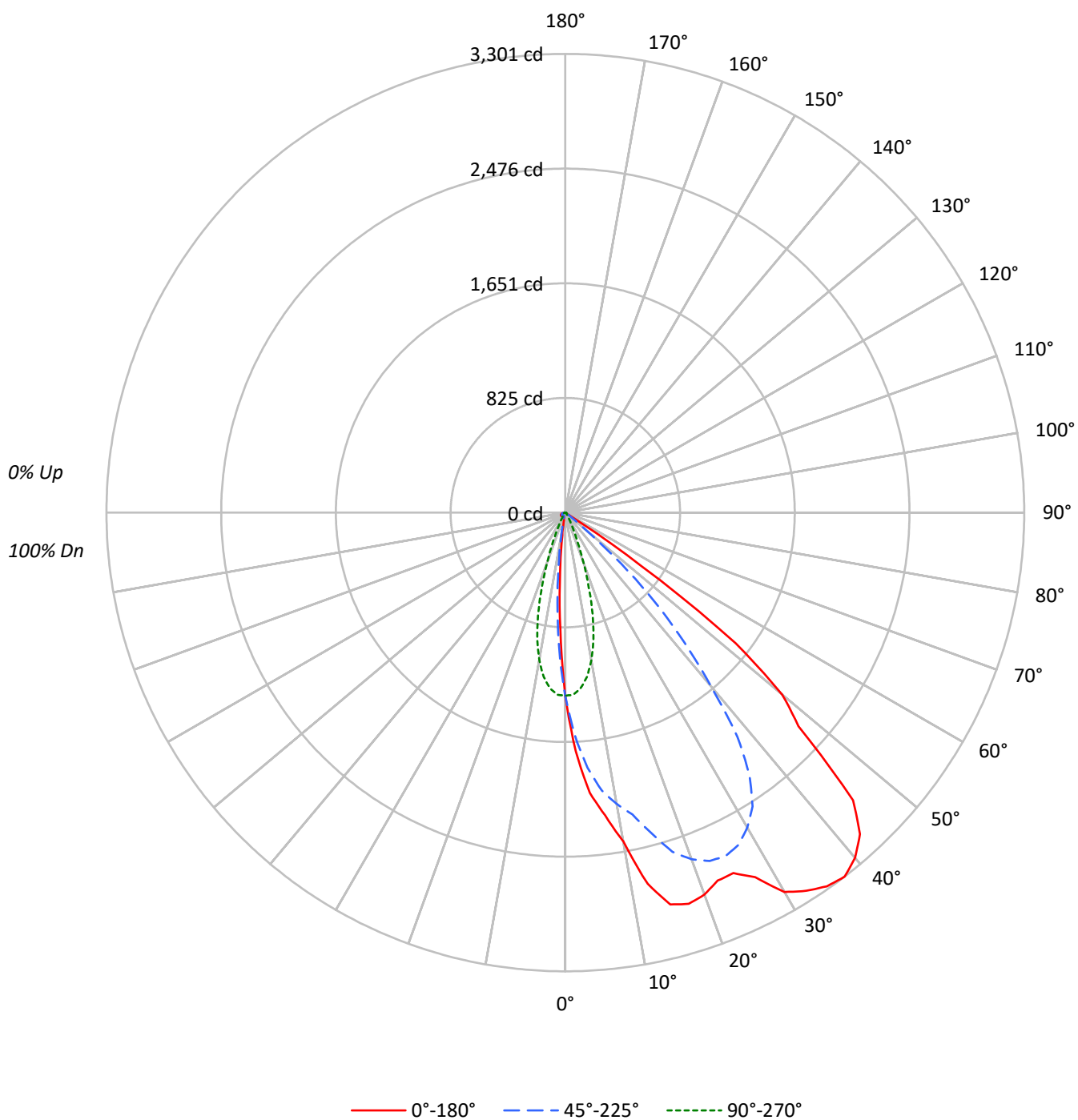
Lumens per Lamp: N/A  
Luminaire Lumens: 2198.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P1308514

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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  | 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°  | 226886 | 226886 | 226886 | 226886 | 226886 |
| 5°  | 349876 | 318532 | 219178 | 112562 | 73941  |
| 10° | 420375 | 372301 | 188642 | 28383  | 11350  |
| 15° | 520505 | 425187 | 134811 | 7827   | 6133   |
| 20° | 536081 | 486395 | 69626  | 5242   | 5242   |
| 25° | 543856 | 518108 | 27934  | 4713   | 5435   |
| 30° | 626864 | 520551 | 12151  | 4932   | 5688   |
| 35° | 690045 | 485309 | 5214   | 5214   | 6412   |
| 40° | 728869 | 365289 | 3013   | 6003   | 6857   |
| 45° | 712875 | 223222 | 2801   | 6503   | 8378   |
| 50° | 545320 | 47585  | 3081   | 7663   | 9726   |
| 55° | 200064 | 1711   | 3453   | 8587   | 10899  |
| 60° | 1963   | 1963   | 3961   | 9851   | 12503  |
| 65° | 2323   | 2323   | 4686   | 10106  | 13244  |
| 70° | 1913   | 2870   | 4784   | 11531  | 15358  |
| 75° | 1264   | 2529   | 5057   | 12709  | 17767  |
| 80° | 1884   | 3769   | 5653   | 13290  | 18943  |
| 85° | 0      | 3754   | 7509   | 15018  | 18772  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 712875 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.0  | 5.3       |
| 10°-20°   | 332.1  | 15.1      |
| 20°-30°   | 509.5  | 23.2      |
| 30°-40°   | 593.7  | 27.0      |
| 40°-50°   | 474.4  | 21.6      |
| 50°-60°   | 140.4  | 6.4       |
| 60°-70°   | 15.0   | 0.7       |
| 70°-80°   | 11.8   | 0.5       |
| 80°-90°   | 5.0    | 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°    | 957.6  | 43.6      |
| 0°-40°    | 1551.3 | 70.6      |
| 0°-60°    | 2166.1 | 98.6      |
| 0°-90°    | 2198.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2198.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1317 | 1317 | 1317 | 1317 | 1317 |      |
| 5°  | 2024 | 1842 | 1268 | 651  | 428  | 202  |
| 15° | 2919 | 2385 | 756  | 44   | 34   | 806  |
| 25° | 2862 | 2726 | 147  | 25   | 29   | 1359 |
| 35° | 3282 | 2308 | 25   | 25   | 30   | 2044 |
| 45° | 2927 | 916  | 12   | 27   | 34   | 2110 |
| 55° | 666  | 6    | 12   | 29   | 36   | 706  |
| 65° | 6    | 6    | 12   | 25   | 32   | 5    |
| 75° | 2    | 4    | 8    | 19   | 27   | 3    |
| 85° | 0    | 2    | 4    | 8    | 10   | 1    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1308514

CATALOG NUMBER: P3SQAS24R559030D010 E3SQCA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 |
| 2.5°  | 1718.4 | 1718.4 | 1712.6 | 1714.5 | 1710.7 | 1689.7 | 1685.9 | 1659.2 | 1636.3 | 1611.4 | 1590.4 |
| 5°    | 2023.8 | 2027.7 | 2021.9 | 2010.5 | 1995.2 | 1979.9 | 1947.5 | 1922.6 | 1890.2 | 1842.5 | 1798.5 |
| 7.5°  | 2197.6 | 2193.8 | 2184.2 | 2180.4 | 2170.9 | 2153.7 | 2130.8 | 2104.0 | 2065.8 | 2018.1 | 1966.6 |
| 10°   | 2403.8 | 2371.3 | 2361.8 | 2346.5 | 2316.0 | 2281.6 | 2241.5 | 2205.2 | 2172.8 | 2128.9 | 2073.5 |
| 12.5° | 2736.0 | 2730.3 | 2692.1 | 2663.5 | 2621.4 | 2545.1 | 2476.3 | 2396.2 | 2300.7 | 2224.3 | 2151.8 |
| 15°   | 2919.3 | 2923.1 | 2905.9 | 2883.0 | 2856.3 | 2793.3 | 2724.5 | 2631.0 | 2518.3 | 2384.7 | 2266.3 |
| 17.5° | 2951.8 | 2957.5 | 2947.9 | 2938.4 | 2930.8 | 2894.5 | 2852.5 | 2785.6 | 2682.5 | 2558.4 | 2382.8 |
| 20°   | 2925.0 | 2936.5 | 2938.4 | 2949.8 | 2965.1 | 2949.8 | 2915.5 | 2869.7 | 2783.7 | 2653.9 | 2485.9 |
| 22.5° | 2865.8 | 2886.8 | 2902.1 | 2942.2 | 2982.3 | 2982.3 | 2961.3 | 2925.0 | 2841.0 | 2713.1 | 2541.3 |
| 25°   | 2862.0 | 2865.8 | 2871.6 | 2936.5 | 2999.5 | 3012.8 | 2993.8 | 2955.6 | 2863.9 | 2726.5 | 2539.3 |
| 27.5° | 2957.5 | 2932.7 | 2894.5 | 2959.4 | 3033.9 | 3045.3 | 3018.6 | 2967.0 | 2858.2 | 2695.9 | 2474.4 |
| 30°   | 3152.2 | 3096.9 | 3016.7 | 3064.4 | 3116.0 | 3102.6 | 3049.1 | 2967.0 | 2820.0 | 2617.6 | 2352.2 |
| 32.5° | 3226.7 | 3196.1 | 3167.5 | 3219.1 | 3228.6 | 3173.2 | 3077.8 | 2955.6 | 2758.9 | 2506.9 | 2151.8 |
| 35°   | 3282.1 | 3284.0 | 3272.5 | 3282.1 | 3236.2 | 3158.0 | 3052.9 | 2892.6 | 2644.4 | 2308.3 | 1886.4 |
| 37.5° | 3301.2 | 3305.0 | 3280.1 | 3245.8 | 3177.0 | 3087.3 | 2961.3 | 2778.0 | 2453.4 | 2035.3 | 1485.4 |
| 40°   | 3242.0 | 3230.5 | 3190.4 | 3142.7 | 3068.2 | 2976.6 | 2839.1 | 2566.1 | 2168.9 | 1624.8 | 1158.9 |
| 42.5° | 3137.0 | 3117.9 | 3070.1 | 3012.8 | 2934.6 | 2818.1 | 2598.5 | 2268.2 | 1762.3 | 1267.8 | 811.4  |
| 45°   | 2926.9 | 2913.6 | 2854.4 | 2812.4 | 2718.8 | 2568.0 | 2285.4 | 1869.2 | 1363.2 | 916.5  | 469.7  |
| 47.5° | 2274.0 | 2275.9 | 2321.7 | 2342.7 | 2310.2 | 2189.9 | 1857.7 | 1420.5 | 994.7  | 546.1  | 158.5  |
| 50°   | 2035.3 | 2025.7 | 1979.9 | 1916.9 | 1811.9 | 1632.4 | 1363.2 | 1004.3 | 588.1  | 177.6  | 22.9   |
| 52.5° | 1544.6 | 1544.6 | 1521.7 | 1489.2 | 1378.5 | 1204.8 | 922.2  | 555.6  | 206.2  | 30.5   | 5.7    |
| 55°   | 666.3  | 632.0  | 651.1  | 687.3  | 658.7  | 572.8  | 431.5  | 166.1  | 36.3   | 5.7    | 5.7    |
| 57.5° | 9.5    | 22.9   | 34.4   | 55.4   | 74.5   | 89.7   | 47.7   | 17.2   | 5.7    | 5.7    | 5.7    |
| 60°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 62.5° | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 65°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 67.5° | 3.8    | 3.8    | 3.8    | 5.7    | 3.8    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 70°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 5.7    | 5.7    |
| 72.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 75°   | 1.9    | 1.9    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 77.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 80°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 3.8    | 3.8    | 3.8    |
| 82.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 3.8    | 3.8    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 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°    | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 | 1317.4 |
| 2.5°  | 1559.9 | 1527.4 | 1474.0 | 1311.7 | 1143.7 | 989.0  | 878.3  | 836.3  |
| 5°    | 1748.9 | 1689.7 | 1600.0 | 1267.8 | 933.6  | 651.1  | 490.7  | 427.7  |
| 7.5°  | 1897.8 | 1821.5 | 1691.6 | 1191.4 | 685.4  | 347.5  | 208.1  | 164.2  |
| 10°   | 1997.1 | 1913.1 | 1743.2 | 1078.7 | 454.4  | 162.3  | 78.3   | 64.9   |
| 12.5° | 2069.7 | 1964.7 | 1762.3 | 933.6  | 267.3  | 74.5   | 42.0   | 38.2   |
| 15°   | 2123.1 | 1987.6 | 1739.4 | 756.1  | 147.0  | 43.9   | 34.4   | 34.4   |
| 17.5° | 2197.6 | 1999.0 | 1684.0 | 557.5  | 84.0   | 32.5   | 32.5   | 32.5   |
| 20°   | 2254.9 | 1999.0 | 1579.0 | 379.9  | 51.6   | 28.6   | 28.6   | 28.6   |
| 22.5° | 2283.5 | 1968.5 | 1451.1 | 240.6  | 36.3   | 26.7   | 28.6   | 28.6   |
| 25°   | 2254.9 | 1894.0 | 1286.9 | 147.0  | 28.6   | 24.8   | 26.7   | 28.6   |
| 27.5° | 2149.9 | 1745.1 | 1067.3 | 93.6   | 22.9   | 24.8   | 26.7   | 28.6   |
| 30°   | 1974.2 | 1529.3 | 819.1  | 61.1   | 21.0   | 24.8   | 26.7   | 28.6   |
| 32.5° | 1726.0 | 1208.6 | 530.8  | 40.1   | 19.1   | 24.8   | 26.7   | 28.6   |
| 35°   | 1348.0 | 855.4  | 320.8  | 24.8   | 19.1   | 24.8   | 28.6   | 30.5   |
| 37.5° | 1010.0 | 570.9  | 173.7  | 15.3   | 19.1   | 24.8   | 28.6   | 30.5   |
| 40°   | 700.7  | 332.2  | 74.5   | 13.4   | 19.1   | 26.7   | 30.5   | 30.5   |
| 42.5° | 406.7  | 131.7  | 19.1   | 11.5   | 19.1   | 26.7   | 30.5   | 32.5   |
| 45°   | 148.9  | 26.7   | 5.7    | 11.5   | 21.0   | 26.7   | 30.5   | 34.4   |
| 47.5° | 21.0   | 5.7    | 5.7    | 11.5   | 21.0   | 26.7   | 32.5   | 34.4   |
| 50°   | 5.7    | 5.7    | 5.7    | 11.5   | 21.0   | 28.6   | 34.4   | 36.3   |
| 52.5° | 5.7    | 5.7    | 5.7    | 11.5   | 21.0   | 28.6   | 34.4   | 36.3   |
| 55°   | 5.7    | 5.7    | 5.7    | 11.5   | 21.0   | 28.6   | 34.4   | 36.3   |
| 57.5° | 5.7    | 5.7    | 5.7    | 11.5   | 21.0   | 28.6   | 34.4   | 36.3   |
| 60°   | 5.7    | 5.7    | 5.7    | 11.5   | 19.1   | 28.6   | 34.4   | 36.3   |
| 62.5° | 5.7    | 5.7    | 5.7    | 11.5   | 19.1   | 26.7   | 32.5   | 34.4   |
| 65°   | 5.7    | 5.7    | 5.7    | 11.5   | 17.2   | 24.8   | 32.5   | 32.5   |
| 67.5° | 5.7    | 5.7    | 5.7    | 9.5    | 17.2   | 24.8   | 30.5   | 32.5   |
| 70°   | 5.7    | 5.7    | 5.7    | 9.5    | 15.3   | 22.9   | 28.6   | 30.5   |
| 72.5° | 5.7    | 5.7    | 5.7    | 7.6    | 13.4   | 21.0   | 26.7   | 28.6   |
| 75°   | 3.8    | 5.7    | 5.7    | 7.6    | 13.4   | 19.1   | 24.8   | 26.7   |
| 77.5° | 3.8    | 5.7    | 5.7    | 5.7    | 11.5   | 15.3   | 21.0   | 22.9   |
| 80°   | 3.8    | 3.8    | 5.7    | 5.7    | 9.5    | 13.4   | 17.2   | 19.1   |
| 82.5° | 3.8    | 3.8    | 3.8    | 5.7    | 7.6    | 9.5    | 13.4   | 13.4   |
| 85°   | 3.8    | 3.8    | 3.8    | 3.8    | 5.7    | 7.6    | 9.5    | 9.5    |
| 87.5° | 1.9    | 1.9    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)