

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P#

Luminaire Tested: **FLDSQ4C75D010 FEU4C759035 F4LC-DFSSQ-MW**

Issue Date: 12/13/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P#  
 Test Lab: INNOVATION CENTER  
 Issue Date: 12/13/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: FAIL-SAFE  
 Catalog Number: FLDSQ4C75D010 FEU4C759035 F4LC-DFSSQ-MW  
 Description: 4 INCH 7500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND F4LC-DFSSQ TRIM WITH MW FINISH  
 Light Source: -  
 Ballast/Driver: -

**Summary**

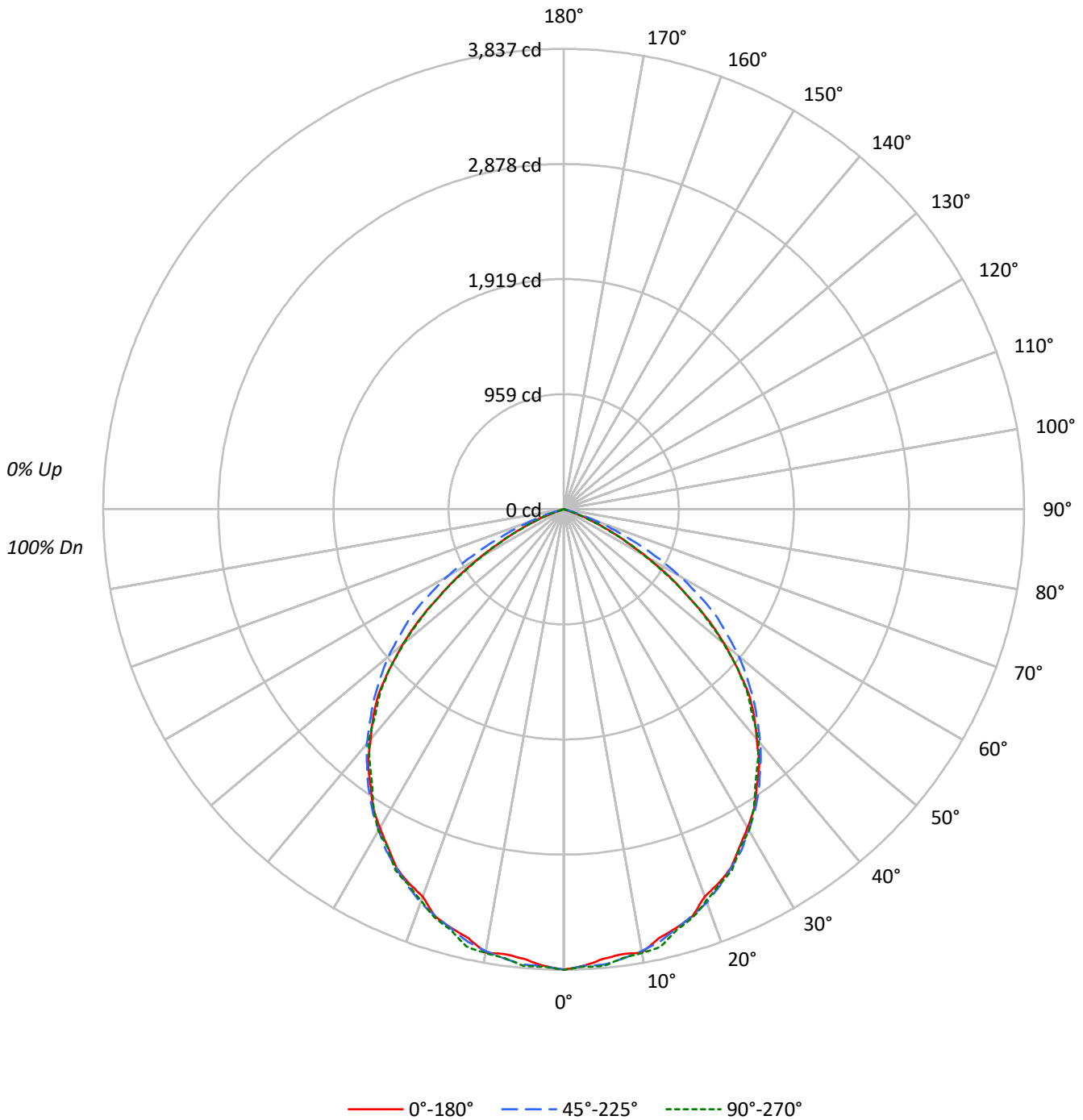
Lumens per Lamp: N/A  
 Luminaire Lumens: 8197.0 lumens  
 Efficiency: N/A  
 Efficacy: 100.6 lumens/watt  
 Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29  
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
 CIE Type: Direct

Input Watts (W): 81.5  
 Input Voltage (V):  
 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: 25 FT

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | GONIO 1 IN0055        | 4/22/2021        | 10/22/2021           |
| Power Meter                    | XITRON 2801 IN0197    | 12/1/2020        | 12/1/2021            |
| AC Power Source                | CHROMA 61505 IN0196   | 12/1/2020        | 12/1/2021            |
| DC Power Supply                | AGILENT E3634A IN0198 | 11/30/2020       | 11/30/2021           |
| Room Thermometer               | ONSET IN0143          | 12/1/2020        | 12/1/2021            |

TEST NUMBER: P#  
CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 F4LC-DFSSQ-MW

### Luminous Intensity Polar Plot



TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 F4LC-DFSSQ-MW

**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 | 0  |     |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    |    | 89  |
| 2   | 103 | 96  | 91  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    | 77  |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 69  | 67  |    |    |    | 67  |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |    | 59  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |    | 52  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    | 46  |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |    | 41  |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 39  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |    | 37  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    | 33  |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 31  |    |    |    | 31  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 370257 | 370257 | 370257 |
| 5°  | 364281 | 369017 | 370073 |
| 10° | 367425 | 366357 | 367944 |
| 15° | 360992 | 361522 | 362610 |
| 20° | 352597 | 358183 | 356520 |
| 25° | 351064 | 351064 | 353385 |
| 30° | 341278 | 343707 | 344330 |
| 35° | 330640 | 333856 | 328072 |
| 40° | 315120 | 321292 | 318546 |
| 45° | 298238 | 304952 | 295263 |
| 50° | 262648 | 285554 | 261011 |
| 55° | 212718 | 261318 | 213644 |
| 60° | 155656 | 216675 | 152530 |
| 65° | 94590  | 154293 | 92101  |
| 70° | 36901  | 83055  | 35377  |
| 75° | 4064   | 22368  | 4064   |
| 80° | 3112   | 3112   | 3112   |
| 85° | 0      | 0      | 0      |

TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 F4LC-DFSSQ-MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 362.2  | 4.4       |
| 10°-20°   | 1024.9 | 12.5      |
| 20°-30°   | 1520.8 | 18.6      |
| 30°-40°   | 1762.1 | 21.5      |
| 40°-50°   | 1689.5 | 20.6      |
| 50°-60°   | 1242.2 | 15.2      |
| 60°-70°   | 536.5  | 6.5       |
| 70°-80°   | 57.9   | 0.7       |
| 80°-90°   | 0.8    | 0.0       |
| 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°    | 2907.9 | 35.5      |
| 0°-40°    | 4670.1 | 57.0      |
| 0°-60°    | 7601.8 | 92.7      |
| 0°-90°    | 8197.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8197.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3837 | 3837  | 3837 | 3837  | 3837 |      |
| 5°  | 3761 | 3799  | 3810 | 3816  | 3821 | 359  |
| 15° | 3614 | 3636  | 3619 | 3625  | 3630 | 1019 |
| 25° | 3298 | 3292  | 3298 | 3303  | 3319 | 1510 |
| 35° | 2807 | 2823  | 2834 | 2829  | 2785 | 1755 |
| 45° | 2186 | 2191  | 2235 | 2202  | 2164 | 1661 |
| 55° | 1264 | 1395  | 1553 | 1390  | 1270 | 1138 |
| 65° | 414  | 518   | 676  | 512   | 403  | 426  |
| 75° | 11   | 16    | 60   | 11    | 11   | 34   |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 F4LC-DFSSQ-MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 |
| 2.5°  | 3809.9 | 3853.5 | 3859.1 | 3831.7 | 3820.8 | 3804.6 | 3842.6 | 3815.5 | 3826.4 | 3815.5 | 3809.9 |
| 5°    | 3761.0 | 3809.9 | 3815.5 | 3815.5 | 3804.6 | 3799.0 | 3815.5 | 3809.9 | 3804.6 | 3793.7 | 3809.9 |
| 7.5°  | 3739.2 | 3766.3 | 3793.7 | 3761.0 | 3777.2 | 3771.9 | 3809.9 | 3793.7 | 3788.1 | 3788.1 | 3777.2 |
| 10°   | 3750.1 | 3744.5 | 3766.3 | 3733.6 | 3744.5 | 3733.6 | 3766.3 | 3766.3 | 3755.4 | 3744.5 | 3739.2 |
| 12.5° | 3662.7 | 3706.3 | 3706.3 | 3700.9 | 3690.1 | 3673.6 | 3706.3 | 3728.3 | 3695.4 | 3695.4 | 3690.1 |
| 15°   | 3613.8 | 3624.7 | 3630.0 | 3630.0 | 3624.7 | 3635.6 | 3651.8 | 3630.0 | 3635.6 | 3608.2 | 3619.1 |
| 17.5° | 3559.3 | 3537.5 | 3553.7 | 3542.8 | 3548.4 | 3559.3 | 3581.1 | 3581.1 | 3548.4 | 3542.8 | 3553.7 |
| 20°   | 3433.9 | 3499.2 | 3504.8 | 3472.1 | 3477.5 | 3477.5 | 3515.7 | 3483.0 | 3504.8 | 3477.5 | 3488.3 |
| 22.5° | 3373.8 | 3417.4 | 3423.0 | 3379.4 | 3406.5 | 3373.8 | 3412.1 | 3362.9 | 3417.4 | 3379.4 | 3395.6 |
| 25°   | 3297.5 | 3292.2 | 3308.4 | 3286.6 | 3292.2 | 3292.2 | 3319.3 | 3297.5 | 3314.0 | 3292.2 | 3297.5 |
| 27.5° | 3172.3 | 3215.9 | 3210.4 | 3188.6 | 3199.5 | 3194.1 | 3248.6 | 3188.6 | 3221.3 | 3194.1 | 3205.0 |
| 30°   | 3063.1 | 3101.4 | 3090.5 | 3068.7 | 3068.7 | 3052.3 | 3112.3 | 3095.8 | 3090.5 | 3090.5 | 3084.9 |
| 32.5° | 2954.2 | 2959.7 | 2948.8 | 2954.2 | 2959.7 | 2937.9 | 2986.9 | 2965.1 | 2959.7 | 2965.1 | 2970.6 |
| 35°   | 2807.0 | 2807.0 | 2817.9 | 2801.6 | 2823.4 | 2823.4 | 2867.0 | 2839.7 | 2834.3 | 2817.9 | 2834.3 |
| 37.5° | 2676.2 | 2660.0 | 2665.3 | 2665.3 | 2676.2 | 2687.1 | 2708.9 | 2698.0 | 2698.0 | 2681.8 | 2692.6 |
| 40°   | 2501.8 | 2490.9 | 2507.2 | 2507.2 | 2523.6 | 2523.6 | 2545.4 | 2534.5 | 2550.8 | 2550.8 | 2550.8 |
| 42.5° | 2349.3 | 2349.3 | 2338.4 | 2354.6 | 2360.2 | 2354.6 | 2392.9 | 2387.3 | 2392.9 | 2382.0 | 2387.3 |
| 45°   | 2185.6 | 2185.6 | 2174.7 | 2169.4 | 2196.5 | 2191.2 | 2234.8 | 2218.3 | 2240.1 | 2229.2 | 2234.8 |
| 47.5° | 1962.1 | 1989.5 | 1973.0 | 1989.5 | 2022.2 | 2027.7 | 2054.8 | 2044.0 | 2065.7 | 2049.5 | 2071.3 |
| 50°   | 1749.7 | 1749.7 | 1766.0 | 1787.8 | 1820.5 | 1826.0 | 1858.7 | 1880.5 | 1891.4 | 1896.7 | 1902.3 |
| 52.5° | 1526.2 | 1520.7 | 1537.1 | 1564.3 | 1591.6 | 1613.4 | 1646.1 | 1678.8 | 1700.6 | 1733.3 | 1716.8 |
| 55°   | 1264.5 | 1275.4 | 1291.8 | 1324.5 | 1368.1 | 1395.3 | 1422.6 | 1466.2 | 1504.4 | 1520.7 | 1553.4 |
| 57.5° | 1041.0 | 1030.1 | 1041.0 | 1084.6 | 1133.7 | 1155.5 | 1193.8 | 1237.4 | 1291.8 | 1324.5 | 1335.4 |
| 60°   | 806.6  | 812.2  | 823.1  | 861.3  | 899.3  | 932.0  | 948.5  | 1019.2 | 1068.3 | 1101.0 | 1122.8 |
| 62.5° | 594.2  | 605.1  | 616.0  | 648.7  | 686.7  | 714.1  | 741.2  | 801.3  | 844.8  | 877.5  | 899.3  |
| 65°   | 414.3  | 419.6  | 436.1  | 452.3  | 490.6  | 517.7  | 539.5  | 588.7  | 632.2  | 659.6  | 675.8  |
| 67.5° | 256.2  | 261.5  | 272.4  | 294.4  | 321.6  | 343.4  | 365.2  | 397.9  | 436.1  | 463.2  | 468.8  |
| 70°   | 130.8  | 136.3  | 141.7  | 158.1  | 179.9  | 190.8  | 207.0  | 234.4  | 261.5  | 283.3  | 294.4  |
| 72.5° | 43.6   | 43.6   | 49.1   | 60.0   | 70.9   | 81.8   | 87.2   | 114.5  | 136.3  | 147.2  | 152.6  |
| 75°   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 16.5   | 16.5   | 32.7   | 43.6   | 54.5   | 60.0   |
| 77.5° | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 10.9   | 10.9   |
| 80°   | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 |
| 2.5°  | 3837.3 | 3826.4 | 3820.8 | 3826.4 | 3826.4 | 3820.8 | 3837.3 | 3859.1 | 3886.2 | 3815.5 |
| 5°    | 3831.7 | 3820.8 | 3831.7 | 3799.0 | 3815.5 | 3804.6 | 3826.4 | 3820.8 | 3842.6 | 3820.8 |
| 7.5°  | 3815.5 | 3793.7 | 3799.0 | 3782.8 | 3804.6 | 3777.2 | 3793.7 | 3826.4 | 3804.6 | 3771.9 |
| 10°   | 3761.0 | 3750.1 | 3788.1 | 3733.6 | 3722.7 | 3744.5 | 3788.1 | 3755.4 | 3744.5 | 3755.4 |
| 12.5° | 3706.3 | 3706.3 | 3722.7 | 3679.2 | 3684.5 | 3695.4 | 3717.2 | 3695.4 | 3706.3 | 3733.6 |
| 15°   | 3646.5 | 3635.6 | 3662.7 | 3630.0 | 3624.7 | 3613.8 | 3635.6 | 3635.6 | 3646.5 | 3630.0 |
| 17.5° | 3575.5 | 3559.3 | 3559.3 | 3548.4 | 3542.8 | 3570.2 | 3581.1 | 3586.4 | 3592.0 | 3570.2 |
| 20°   | 3488.3 | 3483.0 | 3499.2 | 3483.0 | 3488.3 | 3493.9 | 3493.9 | 3483.0 | 3531.9 | 3472.1 |
| 22.5° | 3395.6 | 3412.1 | 3390.3 | 3379.4 | 3390.3 | 3401.2 | 3401.2 | 3406.5 | 3395.6 | 3384.7 |
| 25°   | 3303.1 | 3314.0 | 3319.3 | 3286.6 | 3303.1 | 3286.6 | 3324.9 | 3330.2 | 3308.4 | 3319.3 |
| 27.5° | 3221.3 | 3205.0 | 3199.5 | 3177.7 | 3188.6 | 3183.2 | 3188.6 | 3188.6 | 3221.3 | 3177.7 |
| 30°   | 3095.8 | 3079.6 | 3084.9 | 3068.7 | 3074.0 | 3068.7 | 3074.0 | 3074.0 | 3095.8 | 3090.5 |
| 32.5° | 2976.0 | 2959.7 | 2965.1 | 2948.8 | 2948.8 | 2954.2 | 2943.3 | 2943.3 | 2959.7 | 2948.8 |
| 35°   | 2861.4 | 2823.4 | 2828.8 | 2823.4 | 2828.8 | 2807.0 | 2807.0 | 2801.6 | 2812.5 | 2785.2 |
| 37.5° | 2698.0 | 2681.8 | 2676.2 | 2670.9 | 2676.2 | 2665.3 | 2676.2 | 2660.0 | 2676.2 | 2654.4 |
| 40°   | 2550.8 | 2539.9 | 2545.4 | 2512.7 | 2512.7 | 2518.1 | 2507.2 | 2501.8 | 2507.2 | 2529.0 |
| 42.5° | 2403.8 | 2382.0 | 2371.1 | 2360.2 | 2365.5 | 2349.3 | 2343.7 | 2332.8 | 2343.7 | 2321.9 |
| 45°   | 2229.2 | 2229.2 | 2223.9 | 2196.5 | 2202.1 | 2202.1 | 2180.3 | 2158.5 | 2163.8 | 2163.8 |
| 47.5° | 2071.3 | 2060.4 | 2054.8 | 2027.7 | 2022.2 | 2016.8 | 1994.8 | 1978.6 | 1978.6 | 1962.1 |
| 50°   | 1896.7 | 1885.8 | 1869.6 | 1842.2 | 1831.4 | 1798.7 | 1782.4 | 1760.6 | 1738.8 | 1738.8 |
| 52.5° | 1733.3 | 1695.0 | 1673.2 | 1629.6 | 1613.4 | 1597.0 | 1553.4 | 1537.1 | 1520.7 | 1504.4 |
| 55°   | 1537.1 | 1504.4 | 1460.9 | 1411.7 | 1389.9 | 1362.6 | 1319.0 | 1286.3 | 1264.5 | 1270.0 |
| 57.5° | 1346.3 | 1291.8 | 1248.3 | 1182.9 | 1155.5 | 1139.1 | 1095.5 | 1051.9 | 1030.1 | 1030.1 |
| 60°   | 1111.9 | 1068.3 | 1013.9 | 953.8  | 932.0  | 904.9  | 850.2  | 823.1  | 806.6  | 790.4  |
| 62.5° | 888.4  | 855.7  | 806.6  | 730.3  | 714.1  | 686.7  | 648.7  | 616.0  | 599.6  | 599.6  |
| 65°   | 664.9  | 632.2  | 588.7  | 534.2  | 512.4  | 490.6  | 457.9  | 425.2  | 408.7  | 403.4  |
| 67.5° | 468.8  | 430.5  | 392.5  | 348.9  | 332.5  | 321.6  | 288.9  | 267.1  | 256.2  | 250.6  |
| 70°   | 283.3  | 261.5  | 234.4  | 201.7  | 185.3  | 174.4  | 152.6  | 136.3  | 130.8  | 125.4  |
| 72.5° | 147.2  | 130.8  | 109.0  | 87.2   | 76.3   | 65.4   | 54.5   | 43.6   | 38.2   | 38.2   |
| 75°   | 54.5   | 43.6   | 27.3   | 16.5   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   |
| 77.5° | 10.9   | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    |
| 80°   | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)