

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P#

Luminaire Tested: **LD4C100D010 EX4C1009035 4LBCSSQMMS**

Issue Date: 5/25/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C100D010 EX4C1009035 4LBCSSQMMS  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

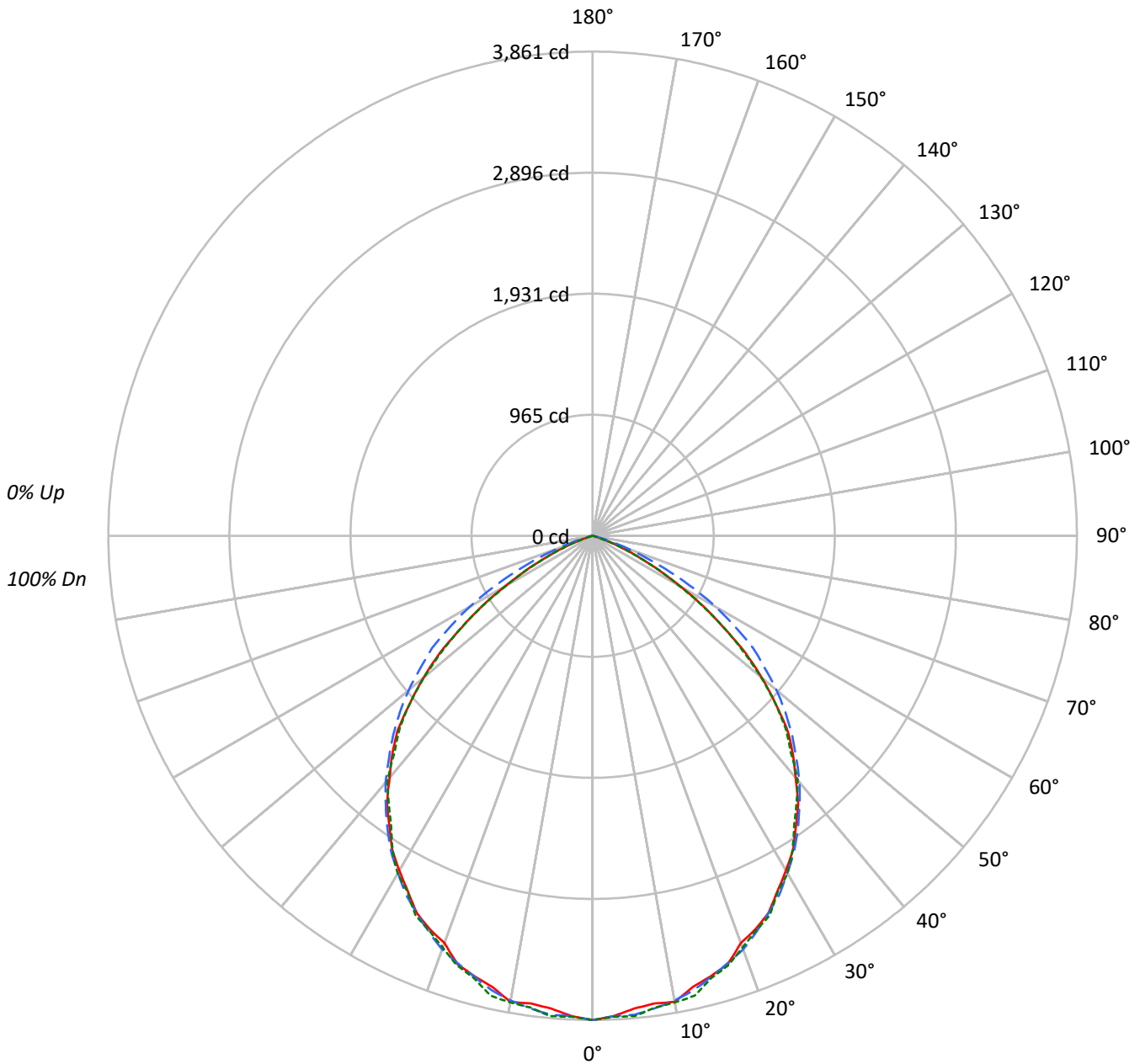
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8248.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 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): 114.4  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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

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CATALOG NUMBER: LD4C100D010 EX4C1009035 4LBCSSQMMS

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009035 4LBCSSQMMS

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 96  | 91  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 69  | 67  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 39  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 372553 | 372553 | 372553 |
| 5°  | 366547 | 371313 | 372378 |
| 10° | 369708 | 368640 | 370237 |
| 15° | 363240 | 363769 | 364868 |
| 20° | 354785 | 360422 | 358738 |
| 25° | 353257 | 353257 | 355589 |
| 30° | 343406 | 345846 | 346470 |
| 35° | 332689 | 335929 | 330110 |
| 40° | 317085 | 323282 | 320524 |
| 45° | 300094 | 306848 | 297105 |
| 50° | 264284 | 287326 | 262648 |
| 55° | 214047 | 262933 | 214972 |
| 60° | 156621 | 218026 | 153475 |
| 65° | 95183  | 155252 | 92672  |
| 70° | 37126  | 83591  | 35603  |
| 75° | 4101   | 22517  | 4101   |
| 80° | 3112   | 3112   | 3112   |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 364.5  | 4.4       |
| 10°-20°   | 1031.3 | 12.5      |
| 20°-30°   | 1530.2 | 18.6      |
| 30°-40°   | 1773.1 | 21.5      |
| 40°-50°   | 1700.0 | 20.6      |
| 50°-60°   | 1249.9 | 15.2      |
| 60°-70°   | 539.9  | 6.5       |
| 70°-80°   | 58.3   | 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°    | 2926.0 | 35.5      |
| 0°-40°    | 4699.1 | 57.0      |
| 0°-60°    | 7649.1 | 92.7      |
| 0°-90°    | 8248.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8248.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3861 | 3861  | 3861 | 3861  | 3861 |      |
| 5°  | 3784 | 3823  | 3834 | 3839  | 3845 | 361  |
| 15° | 3636 | 3658  | 3642 | 3647  | 3653 | 1025 |
| 25° | 3318 | 3313  | 3318 | 3324  | 3340 | 1519 |
| 35° | 2824 | 2841  | 2852 | 2846  | 2802 | 1766 |
| 45° | 2199 | 2205  | 2249 | 2216  | 2177 | 1672 |
| 55° | 1272 | 1404  | 1563 | 1399  | 1278 | 1145 |
| 65° | 417  | 521   | 680  | 516   | 406  | 429  |
| 75° | 11   | 17    | 60   | 11    | 11   | 34   |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009035 4LBCSSQMMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 |
| 2.5°  | 3833.6 | 3877.5 | 3883.1 | 3855.6 | 3844.6 | 3828.2 | 3866.5 | 3839.2 | 3850.2 | 3839.2 | 3833.6 |
| 5°    | 3784.4 | 3833.6 | 3839.2 | 3839.2 | 3828.2 | 3822.7 | 3839.2 | 3833.6 | 3828.2 | 3817.3 | 3833.6 |
| 7.5°  | 3762.5 | 3789.8 | 3817.3 | 3784.4 | 3800.7 | 3795.4 | 3833.6 | 3817.3 | 3811.7 | 3811.7 | 3800.7 |
| 10°   | 3773.4 | 3767.8 | 3789.8 | 3756.9 | 3767.8 | 3756.9 | 3789.8 | 3789.8 | 3778.8 | 3767.8 | 3762.5 |
| 12.5° | 3685.5 | 3729.4 | 3729.4 | 3724.0 | 3713.0 | 3696.5 | 3729.4 | 3751.5 | 3718.4 | 3718.4 | 3713.0 |
| 15°   | 3636.3 | 3647.2 | 3652.6 | 3652.6 | 3647.2 | 3658.2 | 3674.5 | 3652.6 | 3658.2 | 3630.7 | 3641.6 |
| 17.5° | 3581.4 | 3559.5 | 3575.8 | 3564.9 | 3570.5 | 3581.4 | 3603.4 | 3603.4 | 3570.5 | 3564.9 | 3575.8 |
| 20°   | 3455.2 | 3521.0 | 3526.6 | 3493.7 | 3499.1 | 3499.1 | 3537.6 | 3504.7 | 3526.6 | 3499.1 | 3510.1 |
| 22.5° | 3394.8 | 3438.7 | 3444.3 | 3400.4 | 3427.7 | 3394.8 | 3433.3 | 3383.8 | 3438.7 | 3400.4 | 3416.7 |
| 25°   | 3318.1 | 3312.7 | 3329.0 | 3307.1 | 3312.7 | 3312.7 | 3340.0 | 3318.1 | 3334.6 | 3312.7 | 3318.1 |
| 27.5° | 3192.1 | 3235.9 | 3230.3 | 3208.4 | 3219.4 | 3214.0 | 3268.8 | 3208.4 | 3241.3 | 3214.0 | 3225.0 |
| 30°   | 3082.2 | 3120.7 | 3109.7 | 3087.8 | 3087.8 | 3071.2 | 3131.7 | 3115.1 | 3109.7 | 3109.7 | 3104.1 |
| 32.5° | 2972.6 | 2978.1 | 2967.2 | 2972.6 | 2978.1 | 2956.2 | 3005.5 | 2983.5 | 2978.1 | 2983.5 | 2989.1 |
| 35°   | 2824.4 | 2824.4 | 2835.4 | 2819.0 | 2841.0 | 2841.0 | 2884.8 | 2857.3 | 2851.9 | 2835.4 | 2851.9 |
| 37.5° | 2692.8 | 2676.5 | 2681.9 | 2681.9 | 2692.8 | 2703.8 | 2725.7 | 2714.8 | 2714.8 | 2698.4 | 2709.4 |
| 40°   | 2517.4 | 2506.4 | 2522.8 | 2522.8 | 2539.3 | 2539.3 | 2561.3 | 2550.3 | 2566.6 | 2566.6 | 2566.6 |
| 42.5° | 2363.9 | 2363.9 | 2352.9 | 2369.3 | 2374.9 | 2369.3 | 2407.8 | 2402.2 | 2407.8 | 2396.8 | 2402.2 |
| 45°   | 2199.2 | 2199.2 | 2188.2 | 2182.9 | 2210.2 | 2204.8 | 2248.7 | 2232.1 | 2254.0 | 2243.1 | 2248.7 |
| 47.5° | 1974.3 | 2001.8 | 1985.3 | 2001.8 | 2034.7 | 2040.3 | 2067.6 | 2056.7 | 2078.6 | 2062.3 | 2084.2 |
| 50°   | 1760.6 | 1760.6 | 1777.0 | 1798.9 | 1831.8 | 1837.4 | 1870.3 | 1892.2 | 1903.2 | 1908.5 | 1914.1 |
| 52.5° | 1535.7 | 1530.1 | 1546.7 | 1574.0 | 1601.5 | 1623.4 | 1656.3 | 1689.2 | 1711.2 | 1744.1 | 1727.5 |
| 55°   | 1272.4 | 1283.3 | 1299.9 | 1332.8 | 1376.6 | 1403.9 | 1431.5 | 1475.3 | 1513.8 | 1530.1 | 1563.0 |
| 57.5° | 1047.5 | 1036.5 | 1047.5 | 1091.3 | 1140.8 | 1162.7 | 1201.2 | 1245.1 | 1299.9 | 1332.8 | 1343.7 |
| 60°   | 811.6  | 817.2  | 828.2  | 866.7  | 904.9  | 937.8  | 954.4  | 1025.5 | 1075.0 | 1107.9 | 1129.8 |
| 62.5° | 597.9  | 608.9  | 619.8  | 652.7  | 691.0  | 718.5  | 745.8  | 806.2  | 850.1  | 883.0  | 904.9  |
| 65°   | 416.9  | 422.3  | 438.8  | 455.2  | 493.6  | 520.9  | 542.9  | 592.3  | 636.2  | 663.7  | 680.0  |
| 67.5° | 257.8  | 263.2  | 274.1  | 296.3  | 323.6  | 345.5  | 367.4  | 400.3  | 438.8  | 466.1  | 471.7  |
| 70°   | 131.6  | 137.2  | 142.5  | 159.1  | 181.0  | 192.0  | 208.3  | 235.9  | 263.2  | 285.1  | 296.3  |
| 72.5° | 43.9   | 43.9   | 49.4   | 60.4   | 71.4   | 82.3   | 87.7   | 115.2  | 137.2  | 148.1  | 153.5  |
| 75°   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   | 16.6   | 16.6   | 32.9   | 43.9   | 54.8   | 60.4   |
| 77.5° | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 11.0   | 11.0   |
| 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°    | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 | 3861.1 |
| 2.5°  | 3861.1 | 3850.2 | 3844.6 | 3850.2 | 3850.2 | 3844.6 | 3861.1 | 3883.1 | 3910.4 | 3839.2 |
| 5°    | 3855.6 | 3844.6 | 3855.6 | 3822.7 | 3839.2 | 3828.2 | 3850.2 | 3844.6 | 3866.5 | 3844.6 |
| 7.5°  | 3839.2 | 3817.3 | 3822.7 | 3806.3 | 3828.2 | 3800.7 | 3817.3 | 3850.2 | 3828.2 | 3795.4 |
| 10°   | 3784.4 | 3773.4 | 3811.7 | 3756.9 | 3745.9 | 3767.8 | 3811.7 | 3778.8 | 3767.8 | 3778.8 |
| 12.5° | 3729.4 | 3729.4 | 3745.9 | 3702.0 | 3707.4 | 3718.4 | 3740.3 | 3718.4 | 3729.4 | 3756.9 |
| 15°   | 3669.2 | 3658.2 | 3685.5 | 3652.6 | 3647.2 | 3636.3 | 3658.2 | 3658.2 | 3669.2 | 3652.6 |
| 17.5° | 3597.8 | 3581.4 | 3581.4 | 3570.5 | 3564.9 | 3592.4 | 3603.4 | 3608.7 | 3614.3 | 3592.4 |
| 20°   | 3510.1 | 3504.7 | 3521.0 | 3504.7 | 3510.1 | 3515.6 | 3515.6 | 3504.7 | 3553.9 | 3493.7 |
| 22.5° | 3416.7 | 3433.3 | 3411.4 | 3400.4 | 3411.4 | 3422.3 | 3422.3 | 3427.7 | 3416.7 | 3405.8 |
| 25°   | 3323.6 | 3334.6 | 3340.0 | 3307.1 | 3323.6 | 3307.1 | 3345.6 | 3351.0 | 3329.0 | 3340.0 |
| 27.5° | 3241.3 | 3225.0 | 3219.4 | 3197.4 | 3208.4 | 3203.0 | 3208.4 | 3208.4 | 3241.3 | 3197.4 |
| 30°   | 3115.1 | 3098.8 | 3104.1 | 3087.8 | 3093.2 | 3087.8 | 3093.2 | 3093.2 | 3115.1 | 3109.7 |
| 32.5° | 2994.5 | 2978.1 | 2983.5 | 2967.2 | 2967.2 | 2972.6 | 2961.6 | 2961.6 | 2978.1 | 2967.2 |
| 35°   | 2879.2 | 2841.0 | 2846.4 | 2841.0 | 2846.4 | 2824.4 | 2824.4 | 2819.0 | 2830.0 | 2802.5 |
| 37.5° | 2714.8 | 2698.4 | 2692.8 | 2687.5 | 2692.8 | 2681.9 | 2692.8 | 2676.5 | 2692.8 | 2670.9 |
| 40°   | 2566.6 | 2555.7 | 2561.3 | 2528.4 | 2528.4 | 2533.7 | 2522.8 | 2517.4 | 2522.8 | 2544.7 |
| 42.5° | 2418.7 | 2396.8 | 2385.8 | 2374.9 | 2380.2 | 2363.9 | 2358.3 | 2347.3 | 2358.3 | 2336.4 |
| 45°   | 2243.1 | 2243.1 | 2237.7 | 2210.2 | 2215.8 | 2215.8 | 2193.8 | 2171.9 | 2177.3 | 2177.3 |
| 47.5° | 2084.2 | 2073.2 | 2067.6 | 2040.3 | 2034.7 | 2029.4 | 2007.2 | 1990.9 | 1990.9 | 1974.3 |
| 50°   | 1908.5 | 1897.6 | 1881.2 | 1853.7 | 1842.7 | 1809.9 | 1793.5 | 1771.6 | 1749.7 | 1749.7 |
| 52.5° | 1744.1 | 1705.6 | 1683.6 | 1639.8 | 1623.4 | 1606.9 | 1563.0 | 1546.7 | 1530.1 | 1513.8 |
| 55°   | 1546.7 | 1513.8 | 1469.9 | 1420.5 | 1398.6 | 1371.0 | 1327.2 | 1294.3 | 1272.4 | 1277.9 |
| 57.5° | 1354.7 | 1299.9 | 1256.0 | 1190.2 | 1162.7 | 1146.2 | 1102.3 | 1058.4 | 1036.5 | 1036.5 |
| 60°   | 1118.8 | 1075.0 | 1020.2 | 959.7  | 937.8  | 910.5  | 855.5  | 828.2  | 811.6  | 795.3  |
| 62.5° | 894.0  | 861.1  | 811.6  | 734.9  | 718.5  | 691.0  | 652.7  | 619.8  | 603.3  | 603.3  |
| 65°   | 669.1  | 636.2  | 592.3  | 537.5  | 515.6  | 493.6  | 460.7  | 427.8  | 411.3  | 405.9  |
| 67.5° | 471.7  | 433.2  | 395.0  | 351.1  | 334.5  | 323.6  | 290.7  | 268.7  | 257.8  | 252.2  |
| 70°   | 285.1  | 263.2  | 235.9  | 203.0  | 186.4  | 175.4  | 153.5  | 137.2  | 131.6  | 126.2  |
| 72.5° | 148.1  | 131.6  | 109.6  | 87.7   | 76.8   | 65.8   | 54.8   | 43.9   | 38.5   | 38.5   |
| 75°   | 54.8   | 43.9   | 27.5   | 16.6   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   |
| 77.5° | 11.0   | 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    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°









(END OF REPORT)