

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: **LD4C60D010 EX4C609027 4LBPSSQMW**

Issue Date: 2/18/2022

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: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C60D010 EX4C609027 4LBPSSQMW  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

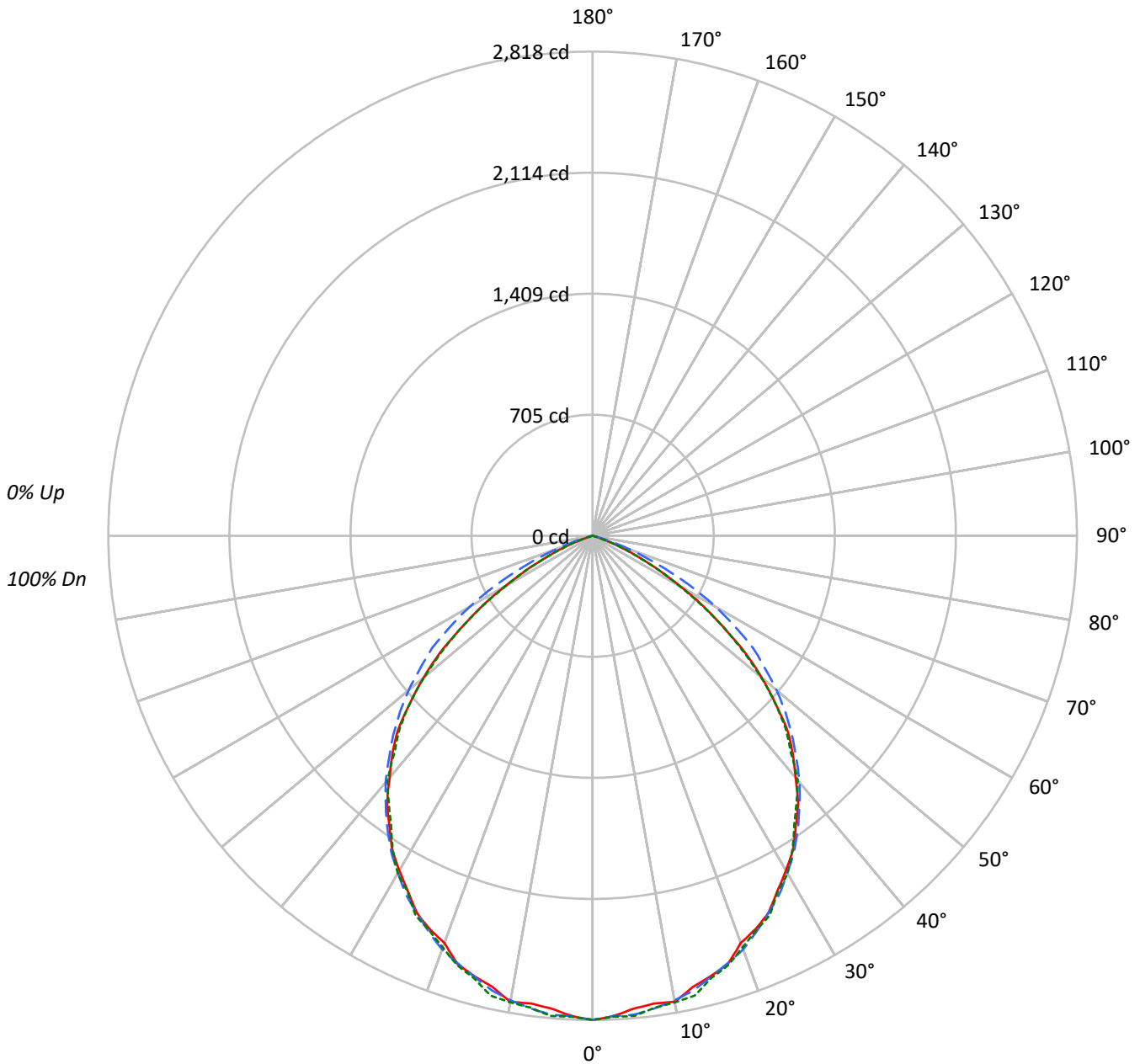
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6019.0 lumens  
Efficiency: N/A  
Efficacy: 83.6 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): 72  
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

TEST NUMBER: P#  
CATALOG NUMBER: LD4C60D010 EX4C609027 4LBPSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609027 4LBPSSQMW

**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°  | 271877 | 271877 | 271877 |
| 5°  | 267491 | 270968 | 271743 |
| 10° | 269800 | 269017 | 270182 |
| 15° | 265075 | 265465 | 266264 |
| 20° | 258911 | 263018 | 261786 |
| 25° | 257791 | 257791 | 259495 |
| 30° | 250596 | 252390 | 252836 |
| 35° | 242779 | 245147 | 240895 |
| 40° | 231396 | 235918 | 233903 |
| 45° | 218998 | 223924 | 216815 |
| 50° | 192861 | 209674 | 191661 |
| 55° | 156195 | 191875 | 156885 |
| 60° | 114301 | 159110 | 112004 |
| 65° | 69453  | 113311 | 67626  |
| 70° | 27083  | 60993  | 25983  |
| 75° | 2982   | 16441  | 2982   |
| 80° | 2278   | 2278   | 2278   |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 266.0  | 4.4       |
| 10°-20°   | 752.6  | 12.5      |
| 20°-30°   | 1116.7 | 18.6      |
| 30°-40°   | 1293.9 | 21.5      |
| 40°-50°   | 1240.6 | 20.6      |
| 50°-60°   | 912.2  | 15.2      |
| 60°-70°   | 394.0  | 6.5       |
| 70°-80°   | 42.5   | 0.7       |
| 80°-90°   | 0.6    | 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°    | 2135.3 | 35.5      |
| 0°-40°    | 3429.2 | 57.0      |
| 0°-60°    | 5582.0 | 92.7      |
| 0°-90°    | 6019.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6019.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2818 | 2818  | 2818 | 2818  | 2818 |      |
| 5°  | 2762 | 2790  | 2798 | 2802  | 2806 | 263  |
| 15° | 2654 | 2670  | 2658 | 2662  | 2666 | 748  |
| 25° | 2421 | 2417  | 2421 | 2425  | 2437 | 1109 |
| 35° | 2061 | 2073  | 2081 | 2077  | 2045 | 1289 |
| 45° | 1605 | 1609  | 1641 | 1617  | 1589 | 1220 |
| 55° | 928  | 1024  | 1141 | 1021  | 933  | 836  |
| 65° | 304  | 380   | 496  | 376   | 296  | 313  |
| 75° | 8    | 12    | 44   | 8     | 8    | 25   |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609027 4LBPSSQMW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 |
| 2.5°  | 2797.6 | 2829.6 | 2833.7 | 2813.6 | 2805.6 | 2793.7 | 2821.6 | 2801.7 | 2809.7 | 2801.7 | 2797.6 |
| 5°    | 2761.7 | 2797.6 | 2801.7 | 2801.7 | 2793.7 | 2789.6 | 2801.7 | 2797.6 | 2793.7 | 2785.7 | 2797.6 |
| 7.5°  | 2745.7 | 2765.6 | 2785.7 | 2761.7 | 2773.6 | 2769.7 | 2797.6 | 2785.7 | 2781.6 | 2781.6 | 2773.6 |
| 10°   | 2753.7 | 2749.6 | 2765.6 | 2741.6 | 2749.6 | 2741.6 | 2765.6 | 2765.6 | 2757.6 | 2749.6 | 2745.7 |
| 12.5° | 2689.5 | 2721.5 | 2721.5 | 2717.6 | 2709.6 | 2697.5 | 2721.5 | 2737.7 | 2713.5 | 2713.5 | 2709.6 |
| 15°   | 2653.6 | 2661.6 | 2665.5 | 2665.5 | 2661.6 | 2669.6 | 2681.5 | 2665.5 | 2669.6 | 2649.5 | 2657.5 |
| 17.5° | 2613.6 | 2597.6 | 2609.5 | 2601.5 | 2605.6 | 2613.6 | 2629.6 | 2629.6 | 2605.6 | 2601.5 | 2609.5 |
| 20°   | 2521.5 | 2569.5 | 2573.6 | 2549.5 | 2553.5 | 2553.5 | 2581.6 | 2557.5 | 2573.6 | 2553.5 | 2561.5 |
| 22.5° | 2477.4 | 2509.4 | 2513.5 | 2481.5 | 2501.4 | 2477.4 | 2505.5 | 2469.4 | 2509.4 | 2481.5 | 2493.4 |
| 25°   | 2421.4 | 2417.4 | 2429.4 | 2413.4 | 2417.4 | 2417.4 | 2437.4 | 2421.4 | 2433.4 | 2417.4 | 2421.4 |
| 27.5° | 2329.4 | 2361.4 | 2357.3 | 2341.3 | 2349.3 | 2345.4 | 2385.4 | 2341.3 | 2365.4 | 2345.4 | 2353.4 |
| 30°   | 2249.2 | 2277.3 | 2269.3 | 2253.3 | 2253.3 | 2241.2 | 2285.3 | 2273.3 | 2269.3 | 2269.3 | 2265.3 |
| 32.5° | 2169.2 | 2173.3 | 2165.3 | 2169.2 | 2173.3 | 2157.3 | 2193.2 | 2177.2 | 2173.3 | 2177.2 | 2181.3 |
| 35°   | 2061.1 | 2061.1 | 2069.1 | 2057.2 | 2073.2 | 2073.2 | 2105.2 | 2085.1 | 2081.2 | 2069.1 | 2081.2 |
| 37.5° | 1965.1 | 1953.2 | 1957.1 | 1957.1 | 1965.1 | 1973.1 | 1989.1 | 1981.1 | 1981.1 | 1969.2 | 1977.2 |
| 40°   | 1837.1 | 1829.1 | 1841.0 | 1841.0 | 1853.1 | 1853.1 | 1869.1 | 1861.1 | 1873.0 | 1873.0 | 1873.0 |
| 42.5° | 1725.1 | 1725.1 | 1717.1 | 1729.0 | 1733.1 | 1729.0 | 1757.1 | 1753.0 | 1757.1 | 1749.1 | 1753.0 |
| 45°   | 1604.9 | 1604.9 | 1596.9 | 1593.0 | 1612.9 | 1609.0 | 1641.0 | 1628.9 | 1644.9 | 1636.9 | 1641.0 |
| 47.5° | 1440.8 | 1460.9 | 1448.8 | 1460.9 | 1484.9 | 1488.9 | 1508.9 | 1500.9 | 1516.9 | 1504.9 | 1520.9 |
| 50°   | 1284.8 | 1284.8 | 1296.7 | 1312.7 | 1336.7 | 1340.8 | 1364.8 | 1380.8 | 1388.8 | 1392.8 | 1396.8 |
| 52.5° | 1120.7 | 1116.6 | 1128.7 | 1148.6 | 1168.7 | 1184.7 | 1208.7 | 1232.7 | 1248.7 | 1272.7 | 1260.7 |
| 55°   | 928.5  | 936.5  | 948.6  | 972.6  | 1004.6 | 1024.5 | 1044.6 | 1076.6 | 1104.7 | 1116.6 | 1140.6 |
| 57.5° | 764.4  | 756.4  | 764.4  | 796.4  | 832.5  | 848.5  | 876.6  | 908.6  | 948.6  | 972.6  | 980.6  |
| 60°   | 592.3  | 596.4  | 604.4  | 632.4  | 660.4  | 684.4  | 696.5  | 748.4  | 784.5  | 808.5  | 824.5  |
| 62.5° | 436.3  | 444.3  | 452.3  | 476.3  | 504.3  | 524.3  | 544.3  | 588.4  | 620.4  | 644.4  | 660.4  |
| 65°   | 304.2  | 308.1  | 320.2  | 332.1  | 360.2  | 380.2  | 396.2  | 432.2  | 464.3  | 484.3  | 496.3  |
| 67.5° | 188.1  | 192.0  | 200.0  | 216.2  | 236.1  | 252.1  | 268.1  | 292.1  | 320.2  | 340.1  | 344.2  |
| 70°   | 96.0   | 100.1  | 104.0  | 116.1  | 132.1  | 140.1  | 152.0  | 172.1  | 192.0  | 208.0  | 216.2  |
| 72.5° | 32.0   | 32.0   | 36.1   | 44.1   | 52.1   | 60.1   | 64.0   | 84.1   | 100.1  | 108.1  | 112.0  |
| 75°   | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 12.1   | 12.1   | 24.0   | 32.0   | 40.0   | 44.1   |
| 77.5° | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 8.0    | 8.0    |
| 80°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 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°    | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 | 2817.7 |
| 2.5°  | 2817.7 | 2809.7 | 2805.6 | 2809.7 | 2809.7 | 2805.6 | 2817.7 | 2833.7 | 2853.6 | 2801.7 |
| 5°    | 2813.6 | 2805.6 | 2813.6 | 2789.6 | 2801.7 | 2793.7 | 2809.7 | 2805.6 | 2821.6 | 2805.6 |
| 7.5°  | 2801.7 | 2785.7 | 2789.6 | 2777.7 | 2793.7 | 2773.6 | 2785.7 | 2809.7 | 2793.7 | 2769.7 |
| 10°   | 2761.7 | 2753.7 | 2781.6 | 2741.6 | 2733.6 | 2749.6 | 2781.6 | 2757.6 | 2749.6 | 2757.6 |
| 12.5° | 2721.5 | 2721.5 | 2733.6 | 2701.6 | 2705.5 | 2713.5 | 2729.5 | 2713.5 | 2721.5 | 2741.6 |
| 15°   | 2677.6 | 2669.6 | 2689.5 | 2665.5 | 2661.6 | 2653.6 | 2669.6 | 2669.6 | 2677.6 | 2665.5 |
| 17.5° | 2625.5 | 2613.6 | 2613.6 | 2605.6 | 2601.5 | 2621.6 | 2629.6 | 2633.5 | 2637.6 | 2621.6 |
| 20°   | 2561.5 | 2557.5 | 2569.5 | 2557.5 | 2561.5 | 2565.5 | 2565.5 | 2557.5 | 2593.5 | 2549.5 |
| 22.5° | 2493.4 | 2505.5 | 2489.5 | 2481.5 | 2489.5 | 2497.5 | 2497.5 | 2501.4 | 2493.4 | 2485.4 |
| 25°   | 2425.4 | 2433.4 | 2437.4 | 2413.4 | 2425.4 | 2413.4 | 2441.4 | 2445.4 | 2429.4 | 2437.4 |
| 27.5° | 2365.4 | 2353.4 | 2349.3 | 2333.3 | 2341.3 | 2337.4 | 2341.3 | 2341.3 | 2365.4 | 2333.3 |
| 30°   | 2273.3 | 2261.3 | 2265.3 | 2253.3 | 2257.3 | 2253.3 | 2257.3 | 2257.3 | 2273.3 | 2269.3 |
| 32.5° | 2185.2 | 2173.3 | 2177.2 | 2165.3 | 2165.3 | 2169.2 | 2161.2 | 2161.2 | 2173.3 | 2165.3 |
| 35°   | 2101.1 | 2073.2 | 2077.1 | 2073.2 | 2077.1 | 2061.1 | 2061.1 | 2057.2 | 2065.2 | 2045.1 |
| 37.5° | 1981.1 | 1969.2 | 1965.1 | 1961.2 | 1965.1 | 1957.1 | 1965.1 | 1953.2 | 1965.1 | 1949.1 |
| 40°   | 1873.0 | 1865.0 | 1869.1 | 1845.1 | 1845.1 | 1849.0 | 1841.0 | 1837.1 | 1841.0 | 1857.0 |
| 42.5° | 1765.1 | 1749.1 | 1741.1 | 1733.1 | 1737.0 | 1725.1 | 1721.0 | 1713.0 | 1721.0 | 1705.0 |
| 45°   | 1636.9 | 1636.9 | 1633.0 | 1612.9 | 1617.0 | 1617.0 | 1601.0 | 1585.0 | 1588.9 | 1588.9 |
| 47.5° | 1520.9 | 1512.9 | 1508.9 | 1488.9 | 1484.9 | 1480.9 | 1464.8 | 1452.8 | 1452.8 | 1440.8 |
| 50°   | 1392.8 | 1384.8 | 1372.8 | 1352.7 | 1344.7 | 1320.7 | 1308.8 | 1292.8 | 1276.8 | 1276.8 |
| 52.5° | 1272.7 | 1244.6 | 1228.6 | 1196.6 | 1184.7 | 1172.6 | 1140.6 | 1128.7 | 1116.6 | 1104.7 |
| 55°   | 1128.7 | 1104.7 | 1072.7 | 1036.6 | 1020.6 | 1000.5 | 968.5  | 944.5  | 928.5  | 932.6  |
| 57.5° | 988.6  | 948.6  | 916.6  | 868.6  | 848.5  | 836.4  | 804.4  | 772.4  | 756.4  | 756.4  |
| 60°   | 816.5  | 784.5  | 744.5  | 700.4  | 684.4  | 664.5  | 624.3  | 604.4  | 592.3  | 580.4  |
| 62.5° | 652.4  | 628.4  | 592.3  | 536.3  | 524.3  | 504.3  | 476.3  | 452.3  | 440.2  | 440.2  |
| 65°   | 488.3  | 464.3  | 432.2  | 392.2  | 376.2  | 360.2  | 336.2  | 312.2  | 300.1  | 296.2  |
| 67.5° | 344.2  | 316.1  | 288.2  | 256.2  | 244.1  | 236.1  | 212.1  | 196.1  | 188.1  | 184.0  |
| 70°   | 208.0  | 192.0  | 172.1  | 148.1  | 136.0  | 128.0  | 112.0  | 100.1  | 96.0   | 92.1   |
| 72.5° | 108.1  | 96.0   | 80.0   | 64.0   | 56.0   | 48.0   | 40.0   | 32.0   | 28.1   | 28.1   |
| 75°   | 40.0   | 32.0   | 20.1   | 12.1   | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    |
| 77.5° | 8.0    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 80°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 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)