

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: P840557

Luminaire Tested: **LD6C120D010 EU61209040 6LBSQLI**

Issue Date: 3/23/2022

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: P840557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)
Test Lab: INNOVATION CENTER
Issue Date: 3/23/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C120D010 EU61209040 6LBSQLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

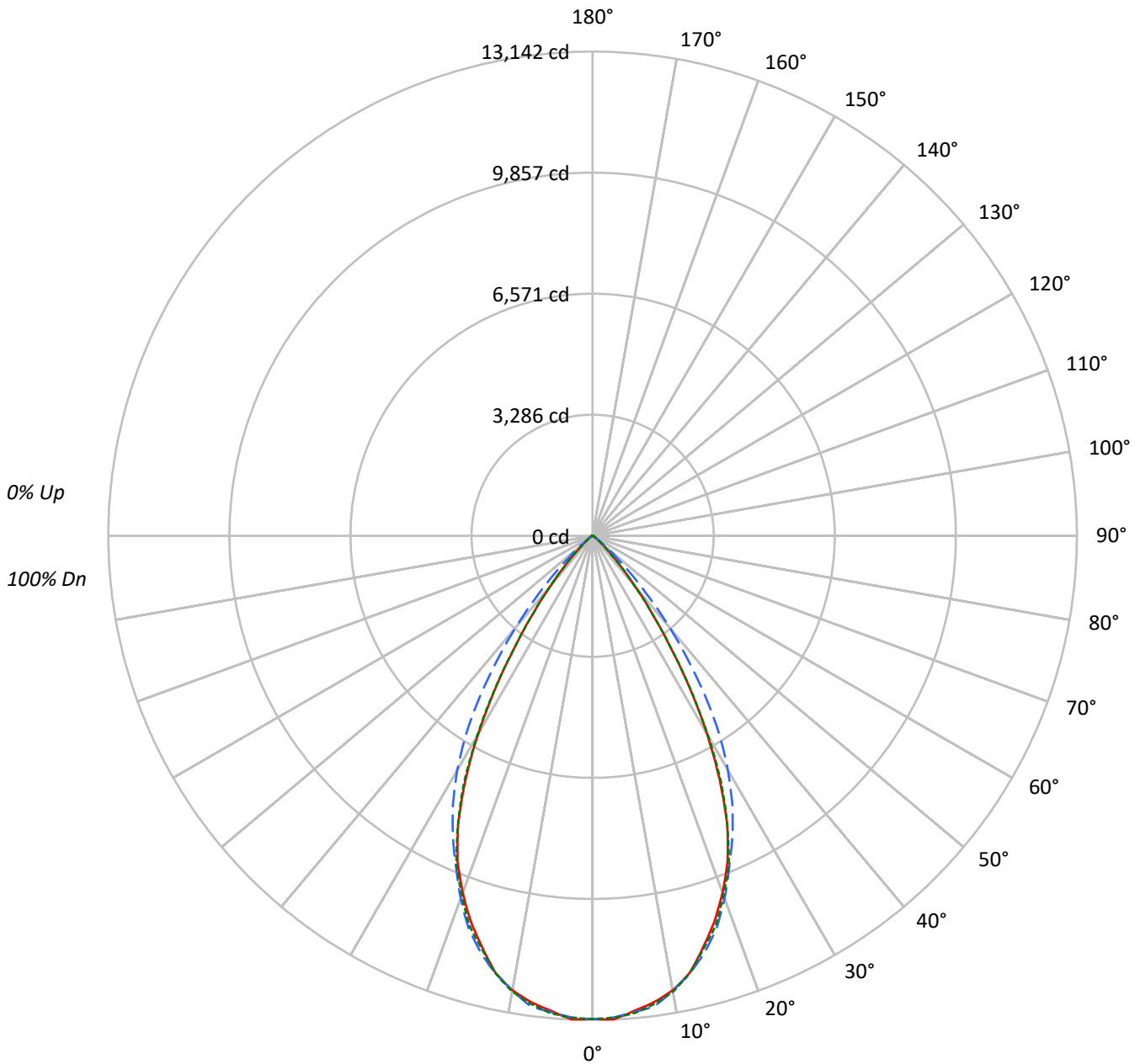
Lumens per Lamp: N/A
Luminaire Lumens: 12327.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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

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CATALOG NUMBER: LD6C120D010 EU61209040 6LBSQLI

Luminous Intensity Polar Plot





TEST NUMBER: P840557

CATALOG NUMBER: LD6C120D010 EU61209040 6LBSQLI

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 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | | | | | | | | | | | | | | | | | |
| 2 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 | | | | | | | | | | | | | | | | | | | |
| 3 | 102 | 96 | 91 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | | | | | | | | | | | | | | | | | | | |
| 4 | 97 | 89 | 84 | 79 | 95 | 88 | 83 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | | | | | | | | | | | | | | | | | |
| 5 | 92 | 83 | 78 | 73 | 90 | 82 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 72 | 77 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 6 | 87 | 78 | 72 | 68 | 86 | 77 | 72 | 67 | 76 | 71 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 65 | | | | | | | | | | | | | | | | | | | |
| 7 | 83 | 73 | 67 | 63 | 81 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 66 | 62 | 69 | 65 | 62 | 60 | | | | | | | | | | | | | | | | | | | |
| 8 | 79 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 58 | 66 | 62 | 58 | 65 | 61 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 9 | 75 | 65 | 59 | 55 | 74 | 64 | 59 | 55 | 64 | 58 | 55 | 63 | 58 | 54 | 62 | 57 | 54 | 53 | | | | | | | | | | | | | | | | | | | |
| 10 | 71 | 61 | 55 | 52 | 70 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 55 | 51 | 59 | 54 | 51 | 50 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 564791 | 564791 | 564791 |
| 5° | 559454 | 560881 | 562302 |
| 10° | 547836 | 547836 | 549301 |
| 15° | 515812 | 522444 | 517648 |
| 20° | 472260 | 479852 | 475678 |
| 25° | 410353 | 426439 | 410743 |
| 30° | 308610 | 364918 | 311503 |
| 35° | 191602 | 281103 | 192469 |
| 40° | 100821 | 183049 | 100360 |
| 45° | 41764 | 91584 | 42769 |
| 50° | 16062 | 34329 | 16062 |
| 55° | 8693 | 10547 | 8070 |
| 60° | 5718 | 4960 | 5718 |
| 65° | 3352 | 3352 | 3352 |
| 70° | 2077 | 3109 | 2077 |
| 75° | 1364 | 1364 | 1364 |
| 80° | 2033 | 2033 | 2033 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1228.1 | 10.0 |
| 10°-20° | 3266.8 | 26.5 |
| 20°-30° | 4009.3 | 32.5 |
| 30°-40° | 2767.7 | 22.5 |
| 40°-50° | 865.3 | 7.0 |
| 50°-60° | 135.2 | 1.1 |
| 60°-70° | 39.0 | 0.3 |
| 70°-80° | 12.7 | 0.1 |
| 80°-90° | 2.8 | 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° | 8504.1 | 69.0 |
| 0°-40° | 11271.8 | 91.4 |
| 0°-60° | 12272.4 | 99.6 |
| 0°-90° | 12327.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12327.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 13118 | 13118 | 13118 | 13118 | 13118 | |
| 5° | 12944 | 12994 | 12977 | 12981 | 13010 | ### |
| 15° | 11572 | 11737 | 11721 | 11704 | 11613 | 3237 |
| 25° | 8638 | 8861 | 8976 | 8919 | 8646 | 3870 |
| 35° | 3645 | 4311 | 5348 | 4352 | 3662 | 2329 |
| 45° | 686 | 938 | 1504 | 930 | 702 | 614 |
| 55° | 116 | 124 | 140 | 124 | 108 | 113 |
| 65° | 33 | 41 | 33 | 41 | 33 | 37 |
| 75° | 8 | 8 | 8 | 8 | 8 | 12 |
| 85° | 0 | 0 | 0 | 0 | 0 | 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° | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 |
| 2.5° | 13142.4 | 12960.8 | 13076.6 | 13051.4 | 13117.7 | 13158.9 | 13117.7 | 13191.8 | 13142.4 | 13084.8 | 13101.3 |
| 5° | 12944.3 | 12969.0 | 12960.8 | 12977.3 | 12993.7 | 12993.7 | 13076.6 | 13084.8 | 13101.3 | 12977.3 | 13010.2 |
| 7.5° | 12770.4 | 12770.4 | 12812.1 | 12795.1 | 12853.3 | 12836.8 | 12845.0 | 12910.9 | 12919.1 | 12886.2 | 12861.5 |
| 10° | 12530.6 | 12497.7 | 12456.5 | 12456.5 | 12530.6 | 12538.8 | 12605.2 | 12613.5 | 12662.9 | 12530.6 | 12547.6 |
| 12.5° | 12159.1 | 12142.1 | 12076.2 | 12109.2 | 12167.3 | 12133.9 | 12241.4 | 12249.6 | 12233.2 | 12175.5 | 12208.5 |
| 15° | 11571.9 | 11638.3 | 11621.3 | 11613.1 | 11745.4 | 11728.9 | 11720.7 | 11745.4 | 11753.6 | 11720.7 | 11696.0 |
| 17.5° | 10985.3 | 11042.9 | 11051.2 | 11067.6 | 11092.3 | 11117.6 | 11150.5 | 11241.6 | 11208.1 | 11183.4 | 11266.3 |
| 20° | 10307.1 | 10282.4 | 10348.8 | 10414.6 | 10439.3 | 10439.3 | 10489.3 | 10555.1 | 10505.7 | 10472.8 | 10481.0 |
| 22.5° | 9571.8 | 9612.9 | 9580.0 | 9645.9 | 9679.3 | 9720.5 | 9769.9 | 9828.0 | 9786.3 | 9695.8 | 9803.3 |
| 25° | 8637.8 | 8662.5 | 8770.0 | 8761.8 | 8811.2 | 8910.5 | 8984.6 | 8984.6 | 8984.6 | 8976.4 | 8976.4 |
| 27.5° | 7464.0 | 7447.6 | 7579.8 | 7670.4 | 7794.4 | 7951.8 | 8050.6 | 8207.6 | 8232.8 | 8207.6 | 8150.0 |
| 30° | 6207.4 | 6190.9 | 6356.1 | 6471.9 | 6695.2 | 6769.9 | 7042.6 | 7191.3 | 7348.2 | 7340.0 | 7298.8 |
| 32.5° | 4901.4 | 4934.9 | 5067.1 | 5232.3 | 5413.9 | 5645.5 | 5901.8 | 6232.1 | 6373.1 | 6406.0 | 6331.4 |
| 35° | 3645.3 | 3694.7 | 3818.7 | 3959.2 | 4182.5 | 4438.8 | 4793.9 | 5108.3 | 5348.1 | 5348.1 | 5289.9 |
| 37.5° | 2628.5 | 2645.0 | 2760.7 | 2851.8 | 3082.9 | 3314.4 | 3620.6 | 4050.3 | 4199.0 | 4256.6 | 4199.0 |
| 40° | 1793.8 | 1793.8 | 1859.7 | 1959.0 | 2148.9 | 2347.5 | 2628.5 | 2950.6 | 3165.7 | 3256.8 | 3157.5 |
| 42.5° | 1140.8 | 1157.3 | 1206.7 | 1273.1 | 1413.6 | 1587.0 | 1802.1 | 2041.9 | 2198.8 | 2264.7 | 2174.1 |
| 45° | 685.9 | 702.4 | 744.1 | 793.5 | 884.6 | 992.1 | 1140.8 | 1314.2 | 1446.5 | 1504.1 | 1463.0 |
| 47.5° | 413.2 | 429.7 | 446.1 | 479.6 | 545.5 | 620.1 | 694.2 | 793.5 | 876.3 | 884.6 | 868.1 |
| 50° | 239.8 | 239.8 | 256.3 | 281.0 | 313.9 | 355.6 | 396.7 | 454.4 | 479.6 | 512.5 | 479.6 |
| 52.5° | 156.9 | 156.9 | 156.9 | 165.2 | 181.6 | 198.6 | 215.1 | 248.0 | 264.5 | 264.5 | 256.3 |
| 55° | 115.8 | 115.8 | 115.8 | 115.8 | 124.0 | 124.0 | 124.0 | 132.2 | 140.5 | 140.5 | 140.5 |
| 57.5° | 82.8 | 82.8 | 82.8 | 91.1 | 91.1 | 91.1 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 60° | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 57.6 | 57.6 | 57.6 |
| 62.5° | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| 65° | 32.9 | 32.9 | 32.9 | 41.2 | 41.2 | 41.2 | 41.2 | 32.9 | 32.9 | 32.9 | 32.9 |
| 67.5° | 24.7 | 24.7 | 24.7 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 24.7 | 24.7 | 24.7 |
| 70° | 16.5 | 16.5 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 |
| 72.5° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 75° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 77.5° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 80° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 82.5° | 0.0 | 0.0 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 | 13117.7 |
| 2.5° | 13150.7 | 13109.5 | 13109.5 | 13109.5 | 13093.0 | 13109.5 | 13134.2 | 13093.0 |
| 5° | 13010.2 | 13026.7 | 12952.6 | 13010.2 | 13034.9 | 12993.7 | 13093.0 | 13010.2 |
| 7.5° | 12886.2 | 12861.5 | 12745.7 | 12828.6 | 12878.0 | 12894.4 | 12886.2 | 12820.3 |
| 10° | 12638.2 | 12580.5 | 12530.6 | 12530.6 | 12514.1 | 12505.9 | 12597.0 | 12564.1 |
| 12.5° | 12192.0 | 12233.2 | 12159.1 | 12200.2 | 12167.3 | 12175.5 | 12183.8 | 12167.3 |
| 15° | 11811.7 | 11770.6 | 11671.3 | 11737.1 | 11696.0 | 11654.8 | 11737.1 | 11613.1 |
| 17.5° | 11216.4 | 11208.1 | 11150.5 | 11109.3 | 11125.8 | 11117.6 | 11158.7 | 11101.1 |
| 20° | 10514.0 | 10530.4 | 10497.5 | 10481.0 | 10456.3 | 10398.2 | 10448.1 | 10381.7 |
| 22.5° | 9753.4 | 9769.9 | 9803.3 | 9736.9 | 9745.2 | 9662.8 | 9736.9 | 9662.8 |
| 25° | 8984.6 | 8976.4 | 8935.2 | 8902.3 | 8811.2 | 8720.1 | 8703.7 | 8646.0 |
| 27.5° | 8141.7 | 8084.1 | 7984.8 | 7877.2 | 7736.8 | 7612.7 | 7604.5 | 7563.3 |
| 30° | 7216.0 | 7092.0 | 6910.3 | 6736.4 | 6521.8 | 6331.4 | 6331.4 | 6265.6 |
| 32.5° | 6240.9 | 5959.4 | 5711.4 | 5496.8 | 5215.8 | 5108.3 | 5000.7 | 4943.1 |
| 35° | 5075.3 | 4827.3 | 4529.4 | 4174.3 | 4042.0 | 3777.6 | 3794.0 | 3661.8 |
| 37.5° | 3975.7 | 3670.0 | 3389.0 | 3099.8 | 2868.3 | 2744.3 | 2677.9 | 2612.0 |
| 40° | 2950.6 | 2653.2 | 2347.5 | 2157.1 | 1950.8 | 1843.2 | 1802.1 | 1785.6 |
| 42.5° | 2016.7 | 1768.6 | 1570.5 | 1413.6 | 1306.0 | 1190.2 | 1157.3 | 1140.8 |
| 45° | 1314.2 | 1173.8 | 992.1 | 868.1 | 793.5 | 727.6 | 727.6 | 702.4 |
| 47.5° | 785.3 | 694.2 | 603.6 | 520.8 | 471.4 | 429.7 | 413.2 | 405.0 |
| 50° | 437.9 | 388.5 | 339.1 | 305.7 | 272.7 | 248.0 | 239.8 | 239.8 |
| 52.5° | 239.8 | 215.1 | 198.6 | 173.4 | 156.9 | 156.9 | 156.9 | 148.7 |
| 55° | 124.0 | 124.0 | 124.0 | 124.0 | 115.8 | 115.8 | 115.8 | 107.5 |
| 57.5° | 82.8 | 82.8 | 91.1 | 91.1 | 91.1 | 82.8 | 82.8 | 82.8 |
| 60° | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 |
| 62.5° | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| 65° | 32.9 | 41.2 | 41.2 | 41.2 | 41.2 | 32.9 | 32.9 | 32.9 |
| 67.5° | 24.7 | 32.9 | 32.9 | 32.9 | 24.7 | 24.7 | 24.7 | 24.7 |
| 70° | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 16.5 | 16.5 | 16.5 |
| 72.5° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 75° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 77.5° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 80° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 82.5° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 0.0 | 0.0 | 0.0 |
| 85° | 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 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)