

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: **LD4C30D010 EX4C309050 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C30D010 EX4C309050 4LBSQLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

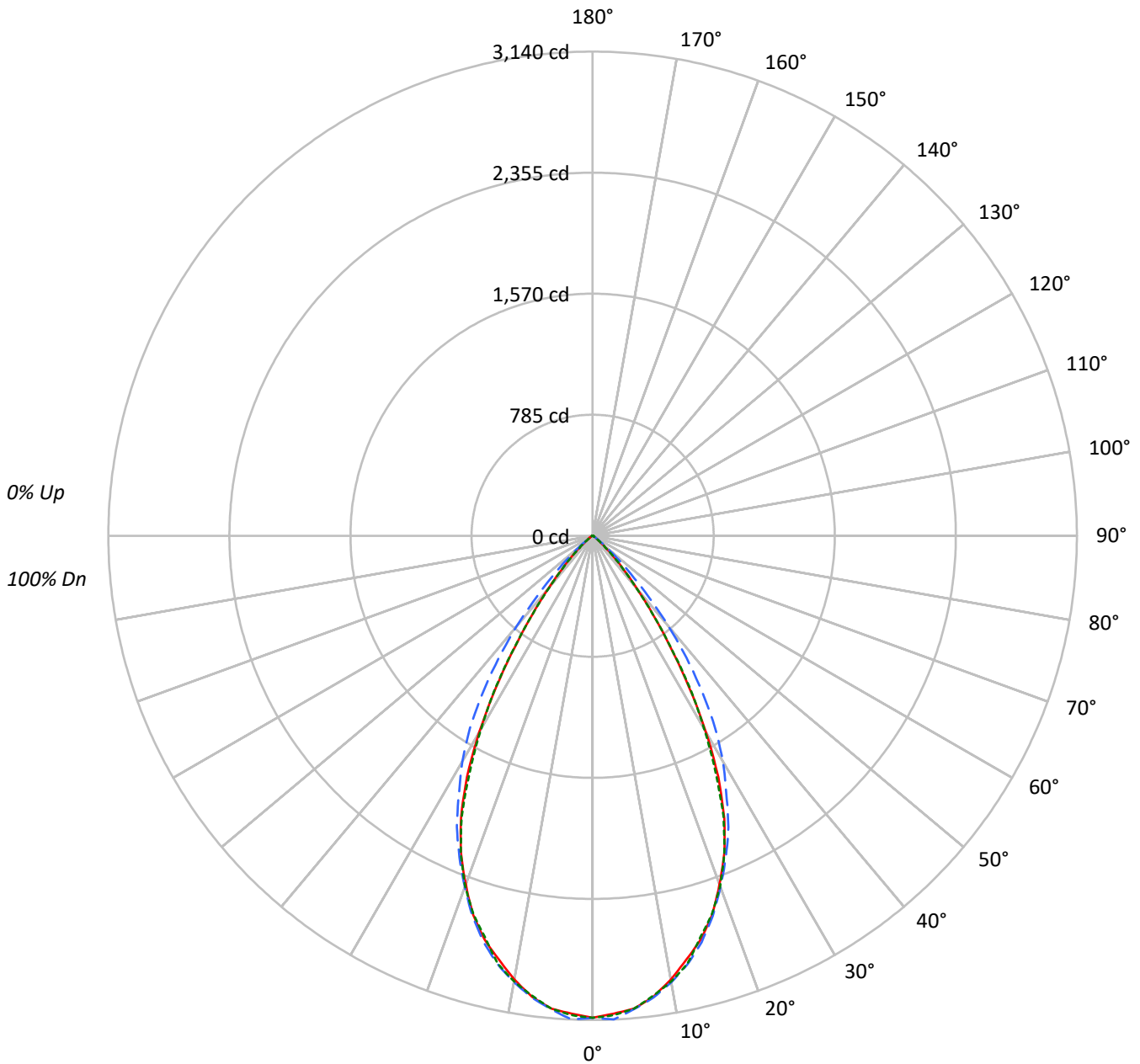
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2886.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
Input Current (A_{in}): 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: LD4C30D010 EX4C309050 4LBSQLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C30D010 EX4C309050 4LBSQLI

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 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 | | | | | | | | | | | | | | | | | | | |
| 3 | 102 | 96 | 91 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 84 | 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 | 77 | 73 | 90 | 82 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 6 | 87 | 78 | 72 | 68 | 86 | 77 | 71 | 67 | 76 | 71 | 67 | 74 | 70 | 66 | 73 | 69 | 66 | 64 | | | | | | | | | | | | | | | | | | | |
| 7 | 83 | 73 | 67 | 63 | 81 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 60 | | | | | | | | | | | | | | | | | | | |
| 8 | 79 | 69 | 63 | 59 | 77 | 68 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 9 | 75 | 65 | 59 | 55 | 74 | 64 | 59 | 55 | 63 | 58 | 55 | 63 | 58 | 54 | 62 | 57 | 54 | 53 | | | | | | | | | | | | | | | | | | | |
| 10 | 71 | 61 | 55 | 51 | 70 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 58 | 54 | 51 | 50 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 301624 | 301624 | 301624 |
| 5° | 298156 | 298544 | 298156 |
| 10° | 286231 | 287985 | 287603 |
| 15° | 270599 | 272587 | 269211 |
| 20° | 246959 | 248787 | 248181 |
| 25° | 215035 | 221796 | 213556 |
| 30° | 163514 | 188081 | 161085 |
| 35° | 102926 | 146214 | 103868 |
| 40° | 55535 | 96559 | 54527 |
| 45° | 26281 | 47691 | 26008 |
| 50° | 9847 | 17878 | 9847 |
| 55° | 4677 | 5686 | 4357 |
| 60° | 3068 | 2682 | 3068 |
| 65° | 1804 | 1804 | 1804 |
| 70° | 1128 | 1693 | 1128 |
| 75° | 746 | 746 | 746 |
| 80° | 1111 | 1111 | 1111 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: LD4C30D010 EX4C309050 4LBSQLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 289.8 | 10.0 |
| 10°-20° | 759.6 | 26.3 |
| 20°-30° | 927.9 | 32.2 |
| 30°-40° | 649.0 | 22.5 |
| 40°-50° | 212.7 | 7.4 |
| 50°-60° | 33.8 | 1.2 |
| 60°-70° | 9.2 | 0.3 |
| 70°-80° | 3.1 | 0.1 |
| 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° | 1977.3 | 68.5 |
| 0°-40° | 2626.3 | 91.0 |
| 0°-60° | 2872.8 | 99.5 |
| 0°-90° | 2886.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2886.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3126 | 3126 | 3126 | 3126 | 3126 | |
| 5° | 3078 | 3079 | 3082 | 3063 | 3078 | 289 |
| 15° | 2709 | 2720 | 2729 | 2711 | 2695 | 756 |
| 25° | 2020 | 2051 | 2083 | 2046 | 2006 | 907 |
| 35° | 874 | 1032 | 1241 | 1016 | 882 | 558 |
| 45° | 193 | 237 | 350 | 234 | 191 | 162 |
| 55° | 28 | 30 | 34 | 30 | 26 | 27 |
| 65° | 8 | 10 | 8 | 10 | 8 | 9 |
| 75° | 2 | 2 | 2 | 2 | 2 | 3 |
| 85° | 0 | 0 | 0 | 0 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LD4C30D010 EX4C309050 4LBSQLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 |
| 2.5° | 3102.2 | 3124.0 | 3118.0 | 3132.0 | 3132.0 | 3116.1 | 3120.1 | 3126.0 | 3133.9 | 3139.9 | 3092.2 |
| 5° | 3078.3 | 3098.2 | 3080.3 | 3100.1 | 3088.2 | 3070.4 | 3100.1 | 3084.3 | 3094.2 | 3082.3 | 3090.2 |
| 7.5° | 3014.8 | 3046.6 | 3010.8 | 3034.6 | 3026.7 | 3016.7 | 3028.7 | 3024.7 | 3030.7 | 3020.7 | 2998.9 |
| 10° | 2921.4 | 2947.3 | 2923.5 | 2957.2 | 2941.3 | 2931.4 | 2941.3 | 2951.3 | 2949.2 | 2939.3 | 2951.3 |
| 12.5° | 2814.2 | 2844.0 | 2832.0 | 2851.9 | 2834.1 | 2834.1 | 2857.9 | 2851.9 | 2853.9 | 2846.0 | 2859.8 |
| 15° | 2708.9 | 2730.8 | 2712.9 | 2738.8 | 2730.8 | 2708.9 | 2718.8 | 2718.8 | 2734.8 | 2728.8 | 2712.9 |
| 17.5° | 2577.9 | 2595.7 | 2575.9 | 2581.8 | 2573.9 | 2569.9 | 2611.6 | 2583.8 | 2599.7 | 2587.8 | 2589.8 |
| 20° | 2405.1 | 2413.0 | 2407.0 | 2422.9 | 2413.0 | 2424.9 | 2421.0 | 2417.0 | 2417.0 | 2422.9 | 2409.1 |
| 22.5° | 2230.3 | 2230.3 | 2236.3 | 2240.2 | 2248.2 | 2236.3 | 2260.1 | 2240.2 | 2242.2 | 2256.1 | 2252.2 |
| 25° | 2019.8 | 2013.8 | 2027.7 | 2047.6 | 2055.5 | 2045.6 | 2077.3 | 2061.5 | 2073.4 | 2083.3 | 2061.5 |
| 27.5° | 1763.6 | 1763.6 | 1777.5 | 1811.3 | 1817.2 | 1829.1 | 1872.8 | 1872.8 | 1888.7 | 1874.8 | 1890.7 |
| 30° | 1467.6 | 1489.5 | 1507.4 | 1551.0 | 1565.0 | 1590.8 | 1636.5 | 1658.3 | 1694.1 | 1688.1 | 1680.1 |
| 32.5° | 1163.8 | 1193.6 | 1195.6 | 1241.3 | 1279.0 | 1322.7 | 1384.2 | 1435.9 | 1461.7 | 1479.6 | 1459.7 |
| 35° | 873.8 | 891.7 | 907.6 | 939.4 | 1002.9 | 1060.6 | 1116.2 | 1183.7 | 1229.4 | 1241.3 | 1223.4 |
| 37.5° | 639.5 | 643.5 | 659.4 | 689.1 | 736.8 | 792.5 | 860.0 | 933.4 | 981.1 | 999.0 | 979.1 |
| 40° | 440.9 | 444.9 | 452.8 | 478.7 | 518.4 | 558.1 | 611.7 | 687.2 | 730.9 | 766.6 | 740.8 |
| 42.5° | 295.9 | 299.9 | 307.8 | 327.7 | 349.5 | 387.2 | 429.0 | 476.6 | 518.4 | 534.2 | 520.3 |
| 45° | 192.6 | 192.6 | 196.6 | 210.6 | 222.5 | 252.2 | 282.0 | 311.8 | 339.6 | 349.5 | 339.6 |
| 47.5° | 113.2 | 115.2 | 119.1 | 129.1 | 143.0 | 154.9 | 176.8 | 196.6 | 204.6 | 212.5 | 208.5 |
| 50° | 65.6 | 65.6 | 71.5 | 77.5 | 87.4 | 95.3 | 103.3 | 111.2 | 115.2 | 119.1 | 115.2 |
| 52.5° | 35.7 | 37.8 | 39.7 | 41.7 | 45.7 | 53.7 | 59.6 | 59.6 | 61.6 | 63.5 | 61.6 |
| 55° | 27.8 | 27.8 | 27.8 | 27.8 | 29.8 | 29.8 | 29.8 | 31.8 | 31.8 | 33.8 | 31.8 |
| 57.5° | 19.9 | 19.9 | 19.9 | 21.9 | 21.9 | 21.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 |
| 60° | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 62.5° | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| 65° | 7.9 | 7.9 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 7.9 | 7.9 | 7.9 | 7.9 |
| 67.5° | 6.0 | 6.0 | 6.0 | 6.0 | 7.9 | 7.9 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 70° | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 72.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 75° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 77.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 80° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 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° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: LD4C30D010 EX4C309050 4LBSQLI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 | 3126.0 |
| 2.5° | 3126.0 | 3092.2 | 3096.2 | 3114.1 | 3104.1 | 3114.1 | 3112.1 | 3112.1 |
| 5° | 3092.2 | 3082.3 | 3066.4 | 3060.4 | 3072.3 | 3098.2 | 3094.2 | 3078.3 |
| 7.5° | 3028.7 | 3002.9 | 3020.7 | 3028.7 | 3018.8 | 3034.6 | 3042.6 | 3008.8 |
| 10° | 2953.2 | 2943.3 | 2939.3 | 2943.3 | 2939.3 | 2955.2 | 2935.4 | 2935.4 |
| 12.5° | 2846.0 | 2830.1 | 2830.1 | 2853.9 | 2840.0 | 2828.1 | 2844.0 | 2842.0 |
| 15° | 2738.8 | 2706.9 | 2706.9 | 2714.8 | 2720.8 | 2712.9 | 2714.8 | 2695.0 |
| 17.5° | 2579.8 | 2569.9 | 2556.0 | 2577.9 | 2583.8 | 2575.9 | 2581.8 | 2571.9 |
| 20° | 2430.9 | 2430.9 | 2405.1 | 2415.0 | 2422.9 | 2428.9 | 2432.9 | 2417.0 |
| 22.5° | 2240.2 | 2244.2 | 2226.3 | 2246.2 | 2252.2 | 2232.3 | 2236.3 | 2232.3 |
| 25° | 2065.4 | 2063.5 | 2049.5 | 2041.6 | 2045.6 | 2037.6 | 2035.7 | 2005.9 |
| 27.5° | 1872.8 | 1852.9 | 1823.2 | 1831.1 | 1797.3 | 1769.5 | 1769.5 | 1723.8 |
| 30° | 1664.3 | 1630.5 | 1590.8 | 1551.0 | 1521.3 | 1489.5 | 1471.6 | 1445.8 |
| 32.5° | 1420.0 | 1374.4 | 1324.7 | 1271.0 | 1237.3 | 1189.7 | 1163.8 | 1177.7 |
| 35° | 1177.7 | 1110.2 | 1042.6 | 989.1 | 937.4 | 909.6 | 877.8 | 881.8 |
| 37.5° | 943.4 | 848.1 | 788.5 | 730.9 | 687.2 | 651.4 | 637.5 | 633.5 |
| 40° | 689.1 | 613.7 | 554.1 | 512.4 | 482.6 | 454.8 | 438.9 | 432.9 |
| 42.5° | 476.6 | 423.1 | 375.3 | 341.6 | 321.7 | 303.8 | 295.9 | 293.9 |
| 45° | 309.8 | 278.1 | 246.3 | 222.5 | 206.6 | 194.7 | 192.6 | 190.6 |
| 47.5° | 194.7 | 178.7 | 158.8 | 141.0 | 127.1 | 119.1 | 113.2 | 113.2 |
| 50° | 111.2 | 105.3 | 95.3 | 85.4 | 77.5 | 73.5 | 67.5 | 65.6 |
| 52.5° | 59.6 | 59.6 | 55.6 | 47.7 | 41.7 | 37.8 | 37.8 | 35.7 |
| 55° | 31.8 | 31.8 | 29.8 | 29.8 | 27.8 | 27.8 | 27.8 | 25.9 |
| 57.5° | 19.9 | 19.9 | 21.9 | 21.9 | 19.9 | 19.9 | 19.9 | 19.9 |
| 60° | 13.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| 62.5° | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| 65° | 7.9 | 10.0 | 10.0 | 10.0 | 10.0 | 7.9 | 7.9 | 7.9 |
| 67.5° | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 70° | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 4.0 | 4.0 | 4.0 |
| 72.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 75° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 77.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 80° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 82.5° | 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 |
| 87.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 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)