

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: **LD4C75D010 EX4C759030 4LBPSSQMW**

Issue Date: 2/18/2022

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: LD4C75D010 EX4C759030 4LBPSSQMW
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

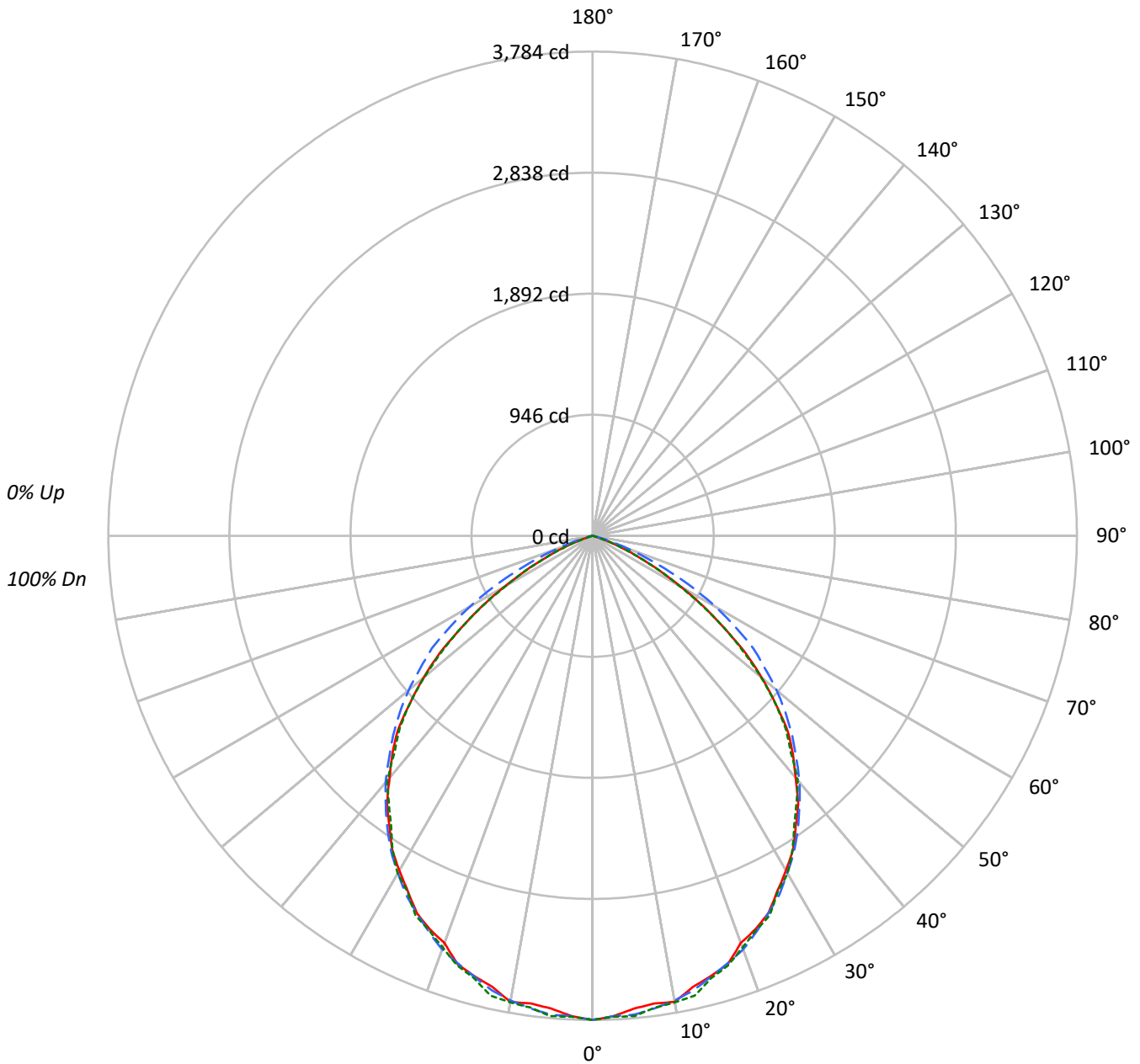
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8083.0 lumens
Efficiency: N/A
Efficacy: 99.2 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 (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: LD4C75D010 EX4C759030 4LBPSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759030 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° | 365104 | 365104 | 365104 |
| 5° | 359215 | 363884 | 364930 |
| 10° | 362311 | 361262 | 362830 |
| 15° | 355967 | 356497 | 357566 |
| 20° | 347689 | 353203 | 351560 |
| 25° | 346188 | 346188 | 348477 |
| 30° | 336531 | 338927 | 339540 |
| 35° | 326034 | 329215 | 323502 |
| 40° | 310737 | 316820 | 314112 |
| 45° | 294090 | 300708 | 291156 |
| 50° | 259000 | 281576 | 257379 |
| 55° | 209758 | 257684 | 210683 |
| 60° | 153495 | 213665 | 150407 |
| 65° | 93266 | 152147 | 90823 |
| 70° | 36365 | 81898 | 34898 |
| 75° | 3989 | 22070 | 3989 |
| 80° | 3056 | 3056 | 3056 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 357.2 | 4.4 |
| 10°-20° | 1010.7 | 12.5 |
| 20°-30° | 1499.6 | 18.6 |
| 30°-40° | 1737.6 | 21.5 |
| 40°-50° | 1666.0 | 20.6 |
| 50°-60° | 1224.9 | 15.2 |
| 60°-70° | 529.1 | 6.5 |
| 70°-80° | 57.1 | 0.7 |
| 80°-90° | 0.7 | 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° | 2867.5 | 35.5 |
| 0°-40° | 4605.1 | 57.0 |
| 0°-60° | 7496.1 | 92.7 |
| 0°-90° | 8083.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8083.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3784 | 3784 | 3784 | 3784 | 3784 | |
| 5° | 3709 | 3746 | 3757 | 3762 | 3768 | 354 |
| 15° | 3564 | 3585 | 3569 | 3574 | 3580 | 1004 |
| 25° | 3252 | 3246 | 3252 | 3257 | 3273 | 1489 |
| 35° | 2768 | 2784 | 2795 | 2789 | 2746 | 1731 |
| 45° | 2155 | 2161 | 2204 | 2171 | 2134 | 1638 |
| 55° | 1247 | 1376 | 1532 | 1371 | 1252 | 1122 |
| 65° | 408 | 510 | 666 | 505 | 398 | 420 |
| 75° | 11 | 16 | 59 | 11 | 11 | 33 |
| 85° | 0 | 0 | 0 | 0 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759030 4LBPSSQMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 |
| 2.5° | 3756.9 | 3799.9 | 3805.4 | 3778.4 | 3767.7 | 3751.7 | 3789.2 | 3762.4 | 3773.2 | 3762.4 | 3756.9 |
| 5° | 3708.7 | 3756.9 | 3762.4 | 3762.4 | 3751.7 | 3746.2 | 3762.4 | 3756.9 | 3751.7 | 3740.9 | 3756.9 |
| 7.5° | 3687.2 | 3714.0 | 3740.9 | 3708.7 | 3724.7 | 3719.4 | 3756.9 | 3740.9 | 3735.4 | 3735.4 | 3724.7 |
| 10° | 3697.9 | 3692.5 | 3714.0 | 3681.7 | 3692.5 | 3681.7 | 3714.0 | 3714.0 | 3703.2 | 3692.5 | 3687.2 |
| 12.5° | 3611.8 | 3654.7 | 3654.7 | 3649.5 | 3638.7 | 3622.5 | 3654.7 | 3676.4 | 3644.0 | 3644.0 | 3638.7 |
| 15° | 3563.5 | 3574.3 | 3579.5 | 3579.5 | 3574.3 | 3585.0 | 3601.0 | 3579.5 | 3585.0 | 3558.0 | 3568.8 |
| 17.5° | 3509.8 | 3488.3 | 3504.3 | 3493.6 | 3499.0 | 3509.8 | 3531.3 | 3531.3 | 3499.0 | 3493.6 | 3504.3 |
| 20° | 3386.1 | 3450.6 | 3456.1 | 3423.8 | 3429.1 | 3429.1 | 3466.8 | 3434.6 | 3456.1 | 3429.1 | 3439.8 |
| 22.5° | 3326.9 | 3369.9 | 3375.4 | 3332.4 | 3359.1 | 3326.9 | 3364.6 | 3316.2 | 3369.9 | 3332.4 | 3348.4 |
| 25° | 3251.7 | 3246.4 | 3262.4 | 3240.9 | 3246.4 | 3246.4 | 3273.2 | 3251.7 | 3267.9 | 3246.4 | 3251.7 |
| 27.5° | 3128.2 | 3171.2 | 3165.7 | 3144.2 | 3155.0 | 3149.7 | 3203.4 | 3144.2 | 3176.5 | 3149.7 | 3160.5 |
| 30° | 3020.5 | 3058.3 | 3047.5 | 3026.0 | 3026.0 | 3009.8 | 3069.0 | 3052.8 | 3047.5 | 3047.5 | 3042.0 |
| 32.5° | 2913.1 | 2918.6 | 2907.8 | 2913.1 | 2918.6 | 2897.1 | 2945.3 | 2923.8 | 2918.6 | 2923.8 | 2929.3 |
| 35° | 2767.9 | 2767.9 | 2778.7 | 2762.7 | 2784.1 | 2784.1 | 2827.1 | 2800.2 | 2794.9 | 2778.7 | 2794.9 |
| 37.5° | 2639.0 | 2623.0 | 2628.2 | 2628.2 | 2639.0 | 2649.7 | 2671.2 | 2660.5 | 2660.5 | 2644.5 | 2655.2 |
| 40° | 2467.0 | 2456.3 | 2472.3 | 2472.3 | 2488.5 | 2488.5 | 2510.0 | 2499.3 | 2515.3 | 2515.3 | 2515.3 |
| 42.5° | 2316.6 | 2316.6 | 2305.9 | 2321.9 | 2327.4 | 2321.9 | 2359.6 | 2354.1 | 2359.6 | 2348.8 | 2354.1 |
| 45° | 2155.2 | 2155.2 | 2144.5 | 2139.2 | 2166.0 | 2160.7 | 2203.7 | 2187.5 | 2208.9 | 2198.2 | 2203.7 |
| 47.5° | 1934.8 | 1961.8 | 1945.6 | 1961.8 | 1994.0 | 1999.5 | 2026.3 | 2015.5 | 2037.0 | 2021.0 | 2042.5 |
| 50° | 1725.4 | 1725.4 | 1741.4 | 1762.9 | 1795.1 | 1800.6 | 1832.9 | 1854.3 | 1865.1 | 1870.4 | 1875.8 |
| 52.5° | 1505.0 | 1499.5 | 1515.8 | 1542.5 | 1569.5 | 1591.0 | 1623.2 | 1655.4 | 1676.9 | 1709.2 | 1692.9 |
| 55° | 1246.9 | 1257.6 | 1273.9 | 1306.1 | 1349.1 | 1375.8 | 1402.8 | 1445.8 | 1483.5 | 1499.5 | 1531.8 |
| 57.5° | 1026.5 | 1015.8 | 1026.5 | 1069.5 | 1118.0 | 1139.4 | 1177.2 | 1220.1 | 1273.9 | 1306.1 | 1316.9 |
| 60° | 795.4 | 800.9 | 811.6 | 849.3 | 886.8 | 919.1 | 935.3 | 1005.0 | 1053.5 | 1085.7 | 1107.2 |
| 62.5° | 585.9 | 596.7 | 607.4 | 639.7 | 677.2 | 704.1 | 730.9 | 790.1 | 833.1 | 865.3 | 886.8 |
| 65° | 408.5 | 413.8 | 430.0 | 446.0 | 483.8 | 510.5 | 532.0 | 580.5 | 623.5 | 650.4 | 666.4 |
| 67.5° | 252.6 | 257.9 | 268.6 | 290.3 | 317.1 | 338.6 | 360.1 | 392.3 | 430.0 | 456.8 | 462.3 |
| 70° | 128.9 | 134.4 | 139.7 | 155.9 | 177.4 | 188.2 | 204.2 | 231.1 | 257.9 | 279.4 | 290.3 |
| 72.5° | 43.0 | 43.0 | 48.5 | 59.2 | 70.0 | 80.7 | 86.0 | 112.9 | 134.4 | 145.2 | 150.4 |
| 75° | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 16.2 | 16.2 | 32.2 | 43.0 | 53.7 | 59.2 |
| 77.5° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 10.7 | 10.7 |
| 80° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 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 |



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759030 4LBPSSQMW

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 | 3783.9 |
| 2.5° | 3783.9 | 3773.2 | 3767.7 | 3773.2 | 3773.2 | 3767.7 | 3783.9 | 3805.4 | 3832.2 | 3762.4 |
| 5° | 3778.4 | 3767.7 | 3778.4 | 3746.2 | 3762.4 | 3751.7 | 3773.2 | 3767.7 | 3789.2 | 3767.7 |
| 7.5° | 3762.4 | 3740.9 | 3746.2 | 3730.2 | 3751.7 | 3724.7 | 3740.9 | 3773.2 | 3751.7 | 3719.4 |
| 10° | 3708.7 | 3697.9 | 3735.4 | 3681.7 | 3671.0 | 3692.5 | 3735.4 | 3703.2 | 3692.5 | 3703.2 |
| 12.5° | 3654.7 | 3654.7 | 3671.0 | 3628.0 | 3633.3 | 3644.0 | 3665.5 | 3644.0 | 3654.7 | 3681.7 |
| 15° | 3595.7 | 3585.0 | 3611.8 | 3579.5 | 3574.3 | 3563.5 | 3585.0 | 3585.0 | 3595.7 | 3579.5 |
| 17.5° | 3525.8 | 3509.8 | 3509.8 | 3499.0 | 3493.6 | 3520.5 | 3531.3 | 3536.5 | 3542.0 | 3520.5 |
| 20° | 3439.8 | 3434.6 | 3450.6 | 3434.6 | 3439.8 | 3445.3 | 3445.3 | 3434.6 | 3482.8 | 3423.8 |
| 22.5° | 3348.4 | 3364.6 | 3343.1 | 3332.4 | 3343.1 | 3353.9 | 3353.9 | 3359.1 | 3348.4 | 3337.6 |
| 25° | 3257.2 | 3267.9 | 3273.2 | 3240.9 | 3257.2 | 3240.9 | 3278.7 | 3283.9 | 3262.4 | 3273.2 |
| 27.5° | 3176.5 | 3160.5 | 3155.0 | 3133.5 | 3144.2 | 3139.0 | 3144.2 | 3144.2 | 3176.5 | 3133.5 |
| 30° | 3052.8 | 3036.8 | 3042.0 | 3026.0 | 3031.3 | 3026.0 | 3031.3 | 3031.3 | 3052.8 | 3047.5 |
| 32.5° | 2934.6 | 2918.6 | 2923.8 | 2907.8 | 2907.8 | 2913.1 | 2902.3 | 2902.3 | 2918.6 | 2907.8 |
| 35° | 2821.7 | 2784.1 | 2789.4 | 2784.1 | 2789.4 | 2767.9 | 2767.9 | 2762.7 | 2773.4 | 2746.4 |
| 37.5° | 2660.5 | 2644.5 | 2639.0 | 2633.7 | 2639.0 | 2628.2 | 2639.0 | 2623.0 | 2639.0 | 2617.5 |
| 40° | 2515.3 | 2504.6 | 2510.0 | 2477.8 | 2477.8 | 2483.1 | 2472.3 | 2467.0 | 2472.3 | 2493.8 |
| 42.5° | 2370.3 | 2348.8 | 2338.1 | 2327.4 | 2332.6 | 2316.6 | 2311.1 | 2300.4 | 2311.1 | 2289.6 |
| 45° | 2198.2 | 2198.2 | 2192.9 | 2166.0 | 2171.4 | 2171.4 | 2149.9 | 2128.5 | 2133.7 | 2133.7 |
| 47.5° | 2042.5 | 2031.7 | 2026.3 | 1999.5 | 1994.0 | 1988.8 | 1967.1 | 1951.1 | 1951.1 | 1934.8 |
| 50° | 1870.4 | 1859.6 | 1843.6 | 1816.6 | 1805.9 | 1773.6 | 1757.6 | 1736.1 | 1714.6 | 1714.6 |
| 52.5° | 1709.2 | 1671.5 | 1650.0 | 1607.0 | 1591.0 | 1574.7 | 1531.8 | 1515.8 | 1499.5 | 1483.5 |
| 55° | 1515.8 | 1483.5 | 1440.5 | 1392.1 | 1370.6 | 1343.6 | 1300.6 | 1268.4 | 1246.9 | 1252.4 |
| 57.5° | 1327.6 | 1273.9 | 1230.9 | 1166.4 | 1139.4 | 1123.2 | 1080.2 | 1037.3 | 1015.8 | 1015.8 |
| 60° | 1096.5 | 1053.5 | 999.8 | 940.6 | 919.1 | 892.3 | 838.4 | 811.6 | 795.4 | 779.4 |
| 62.5° | 876.1 | 843.8 | 795.4 | 720.2 | 704.1 | 677.2 | 639.7 | 607.4 | 591.2 | 591.2 |
| 65° | 655.7 | 623.5 | 580.5 | 526.7 | 505.3 | 483.8 | 451.5 | 419.3 | 403.1 | 397.8 |
| 67.5° | 462.3 | 424.6 | 387.0 | 344.1 | 327.8 | 317.1 | 284.9 | 263.4 | 252.6 | 247.1 |
| 70° | 279.4 | 257.9 | 231.1 | 198.9 | 182.7 | 171.9 | 150.4 | 134.4 | 128.9 | 123.7 |
| 72.5° | 145.2 | 128.9 | 107.5 | 86.0 | 75.2 | 64.5 | 53.7 | 43.0 | 37.7 | 37.7 |
| 75° | 53.7 | 43.0 | 27.0 | 16.2 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 |
| 77.5° | 10.7 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 80° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 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 |



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)