

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: **LX6C120D010 EX6C1209035 6LBPSSQMW**

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 (P209457)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C120D010 EX6C1209035 6LBPSSQMW
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBPSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

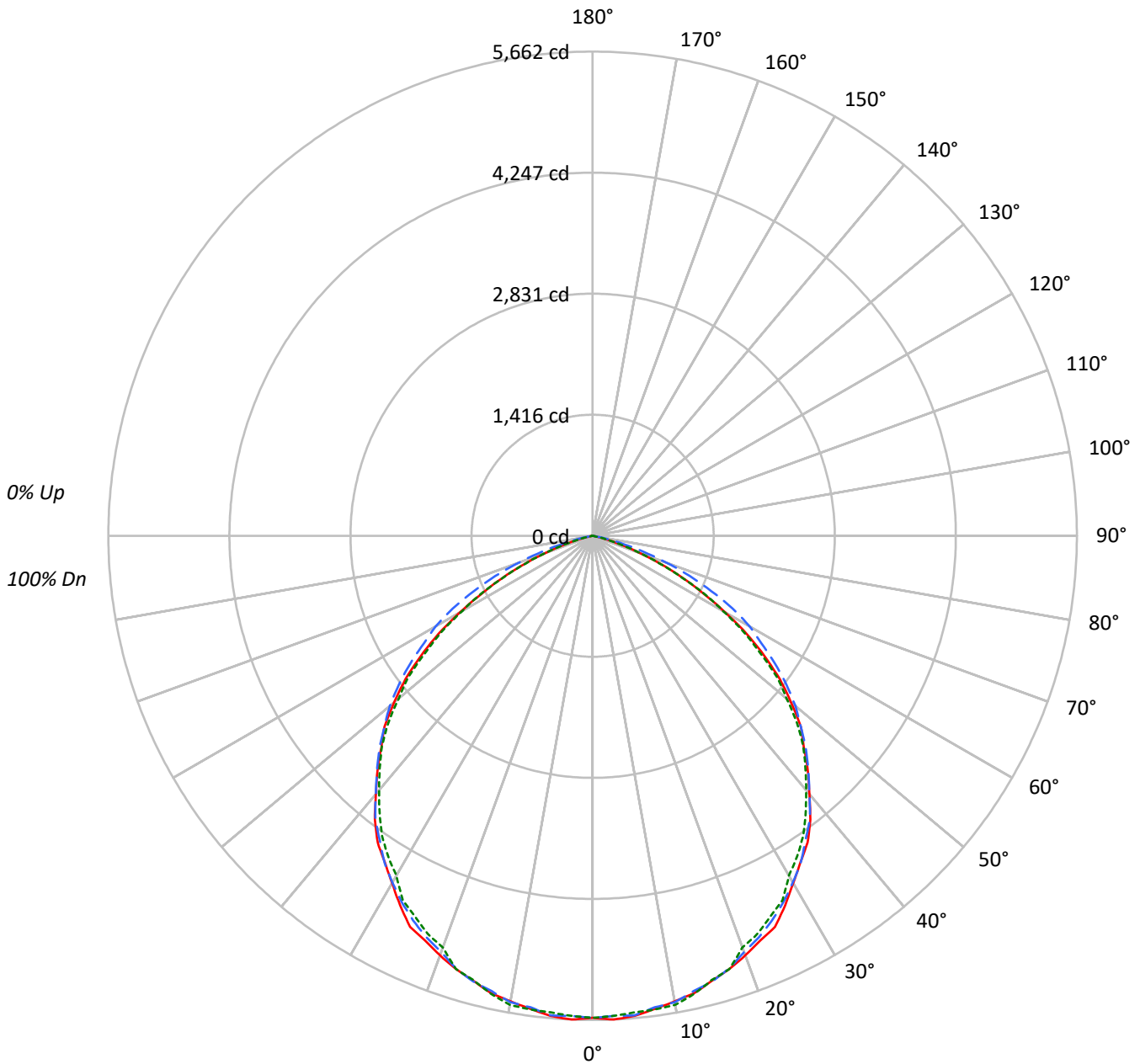
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13610.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
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 (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: LX6C120D010 EX6C1209035 6LBPSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LBPSSQMW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 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 | 100 | 100 | 100 |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | 87 | 87 | 87 |
| 2 | 102 | 94 | 88 | 83 | 99 | 93 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | 75 | 75 | 75 |
| 3 | 93 | 84 | 76 | 70 | 91 | 82 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 67 | 74 | 70 | 66 | 64 | 64 | 64 | 64 |
| 4 | 86 | 75 | 67 | 60 | 84 | 73 | 66 | 60 | 71 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 56 | 56 | 56 | 56 |
| 5 | 79 | 67 | 59 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 | 49 | 49 | 49 |
| 6 | 73 | 61 | 52 | 46 | 71 | 60 | 52 | 46 | 58 | 51 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 43 | 43 | 43 | 43 |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 46 | 41 | 53 | 46 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | 38 | 38 | 38 |
| 8 | 63 | 50 | 42 | 37 | 62 | 50 | 42 | 36 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | 34 | 34 | 34 |
| 9 | 59 | 46 | 38 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 32 | 31 | 31 | 31 | 31 |
| 10 | 55 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 39 | 34 | 30 | 28 | 28 | 28 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 242709 | 242709 | 242709 |
| 5° | 243636 | 243282 | 241843 |
| 10° | 241736 | 242094 | 243550 |
| 15° | 240154 | 240533 | 239789 |
| 20° | 239234 | 237333 | 234666 |
| 25° | 239757 | 235809 | 233433 |
| 30° | 233130 | 232722 | 228173 |
| 35° | 230302 | 228121 | 225493 |
| 40° | 221505 | 221505 | 218233 |
| 45° | 212640 | 214649 | 212122 |
| 50° | 202716 | 207184 | 198276 |
| 55° | 184120 | 195357 | 179751 |
| 60° | 153933 | 182556 | 151797 |
| 65° | 117751 | 155843 | 116885 |
| 70° | 73278 | 115136 | 74311 |
| 75° | 27681 | 62266 | 26267 |
| 80° | 2033 | 10290 | 2033 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 533.1 | 3.9 |
| 10°-20° | 1520.3 | 11.2 |
| 20°-30° | 2287.7 | 16.8 |
| 30°-40° | 2706.3 | 19.9 |
| 40°-50° | 2700.7 | 19.8 |
| 50°-60° | 2239.6 | 16.5 |
| 60°-70° | 1308.4 | 9.6 |
| 70°-80° | 311.6 | 2.3 |
| 80°-90° | 2.2 | 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° | 4341.1 | 31.9 |
| 0°-40° | 7047.4 | 51.8 |
| 0°-60° | 11987.7 | 88.1 |
| 0°-90° | 13610.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13610.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5637 | 5637 | 5637 | 5637 | 5637 | |
| 5° | 5637 | 5608 | 5629 | 5612 | 5596 | 534 |
| 15° | 5388 | 5384 | 5396 | 5371 | 5380 | 1523 |
| 25° | 5047 | 4989 | 4964 | 4947 | 4914 | 2307 |
| 35° | 4382 | 4340 | 4340 | 4315 | 4290 | 2724 |
| 45° | 3492 | 3496 | 3525 | 3488 | 3484 | 2701 |
| 55° | 2453 | 2540 | 2602 | 2532 | 2395 | 2178 |
| 65° | 1156 | 1301 | 1530 | 1297 | 1147 | 1149 |
| 75° | 166 | 241 | 374 | 237 | 158 | 225 |
| 85° | 0 | 0 | 0 | 0 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LBPSSQMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 |
| 2.5° | 5662.3 | 5628.9 | 5653.8 | 5604.1 | 5637.1 | 5604.1 | 5612.2 | 5595.6 | 5628.9 | 5620.4 | 5612.2 |
| 5° | 5637.1 | 5645.6 | 5628.9 | 5645.6 | 5620.4 | 5595.6 | 5620.4 | 5604.1 | 5554.1 | 5628.9 | 5612.2 |
| 7.5° | 5578.9 | 5587.4 | 5570.7 | 5595.6 | 5578.9 | 5545.6 | 5612.2 | 5562.2 | 5554.1 | 5562.2 | 5595.6 |
| 10° | 5529.2 | 5545.6 | 5537.4 | 5529.2 | 5537.4 | 5537.4 | 5520.7 | 5495.9 | 5520.7 | 5537.4 | 5529.2 |
| 12.5° | 5479.2 | 5504.1 | 5487.4 | 5471.0 | 5454.4 | 5462.5 | 5479.2 | 5437.7 | 5437.7 | 5454.4 | 5504.1 |
| 15° | 5387.7 | 5404.4 | 5412.5 | 5379.5 | 5379.5 | 5387.7 | 5421.0 | 5354.4 | 5387.7 | 5396.2 | 5404.4 |
| 17.5° | 5312.8 | 5321.3 | 5321.3 | 5296.2 | 5312.8 | 5288.0 | 5312.8 | 5279.5 | 5312.8 | 5304.7 | 5321.3 |
| 20° | 5221.3 | 5238.0 | 5221.3 | 5221.3 | 5205.0 | 5213.1 | 5213.1 | 5213.1 | 5188.3 | 5179.8 | 5196.5 |
| 22.5° | 5121.6 | 5121.6 | 5105.0 | 5121.6 | 5105.0 | 5096.8 | 5138.3 | 5071.9 | 5138.3 | 5080.1 | 5130.1 |
| 25° | 5046.8 | 5005.3 | 4980.4 | 4971.9 | 5005.3 | 4971.9 | 4988.6 | 4963.7 | 4980.4 | 4963.7 | 4971.9 |
| 27.5° | 4872.2 | 4847.4 | 4838.9 | 4847.4 | 4847.4 | 4838.9 | 4872.2 | 4780.7 | 4838.9 | 4830.7 | 4830.7 |
| 30° | 4689.2 | 4689.2 | 4705.9 | 4689.2 | 4705.9 | 4681.0 | 4714.4 | 4639.5 | 4689.2 | 4681.0 | 4689.2 |
| 32.5° | 4523.1 | 4531.3 | 4531.3 | 4548.0 | 4523.1 | 4531.3 | 4531.3 | 4506.5 | 4523.1 | 4531.3 | 4514.6 |
| 35° | 4381.6 | 4340.1 | 4340.1 | 4340.1 | 4340.1 | 4340.1 | 4356.8 | 4331.9 | 4356.8 | 4340.1 | 4340.1 |
| 37.5° | 4182.2 | 4140.7 | 4140.7 | 4132.2 | 4173.7 | 4148.9 | 4190.4 | 4157.1 | 4157.1 | 4173.7 | 4173.7 |
| 40° | 3941.0 | 3957.7 | 3932.8 | 3965.8 | 3957.7 | 3924.3 | 3999.2 | 3949.5 | 3982.5 | 3941.0 | 3974.3 |
| 42.5° | 3724.9 | 3733.1 | 3724.9 | 3716.4 | 3749.8 | 3741.6 | 3774.6 | 3741.6 | 3733.1 | 3733.1 | 3791.3 |
| 45° | 3492.2 | 3492.2 | 3492.2 | 3517.1 | 3492.2 | 3500.4 | 3533.7 | 3517.1 | 3533.7 | 3525.2 | 3583.4 |
| 47.5° | 3300.7 | 3259.2 | 3251.0 | 3300.7 | 3292.5 | 3300.7 | 3300.7 | 3309.2 | 3317.3 | 3300.7 | 3325.8 |
| 50° | 3026.4 | 3009.8 | 3009.8 | 3018.3 | 3026.4 | 3043.1 | 3067.9 | 3084.6 | 3067.9 | 3093.1 | 3101.3 |
| 52.5° | 2760.4 | 2743.7 | 2752.2 | 2785.2 | 2801.9 | 2793.7 | 2835.2 | 2843.4 | 2835.2 | 2851.9 | 2851.9 |
| 55° | 2452.8 | 2436.1 | 2461.0 | 2502.8 | 2527.6 | 2552.5 | 2594.0 | 2561.0 | 2594.0 | 2602.5 | 2610.7 |
| 57.5° | 2136.7 | 2128.5 | 2136.7 | 2178.2 | 2203.4 | 2261.6 | 2327.9 | 2327.9 | 2361.3 | 2336.4 | 2361.3 |
| 60° | 1787.6 | 1787.6 | 1821.0 | 1845.8 | 1912.5 | 1954.0 | 2020.3 | 2053.7 | 2087.0 | 2120.0 | 2103.7 |
| 62.5° | 1454.9 | 1463.4 | 1488.2 | 1546.4 | 1587.9 | 1646.4 | 1720.9 | 1754.3 | 1812.5 | 1845.8 | 1829.1 |
| 65° | 1155.8 | 1155.8 | 1172.5 | 1222.1 | 1263.7 | 1338.5 | 1405.2 | 1480.0 | 1513.4 | 1529.7 | 1538.2 |
| 67.5° | 864.6 | 856.4 | 889.7 | 923.1 | 964.6 | 1039.4 | 1114.3 | 1155.8 | 1214.0 | 1230.6 | 1222.1 |
| 70° | 582.1 | 590.3 | 607.0 | 640.3 | 690.0 | 748.2 | 831.5 | 864.6 | 897.9 | 914.6 | 897.9 |
| 72.5° | 365.8 | 365.8 | 374.3 | 407.3 | 440.6 | 482.1 | 540.3 | 573.6 | 615.2 | 623.7 | 607.0 |
| 75° | 166.4 | 166.4 | 183.0 | 199.4 | 224.6 | 257.9 | 299.4 | 324.2 | 349.1 | 374.3 | 374.3 |
| 77.5° | 33.3 | 41.5 | 50.0 | 50.0 | 66.4 | 91.5 | 116.4 | 141.2 | 166.4 | 166.4 | 166.4 |
| 80° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 16.7 | 24.8 | 41.5 | 41.5 | 41.5 |
| 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: LX6C120D010 EX6C1209035 6LBPSSQMW

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 | 5637.1 |
| 2.5° | 5637.1 | 5687.1 | 5637.1 | 5612.2 | 5645.6 | 5637.1 | 5612.2 | 5620.4 |
| 5° | 5612.2 | 5628.9 | 5645.6 | 5578.9 | 5620.4 | 5628.9 | 5612.2 | 5595.6 |
| 7.5° | 5587.4 | 5595.6 | 5587.4 | 5570.7 | 5570.7 | 5570.7 | 5587.4 | 5587.4 |
| 10° | 5578.9 | 5554.1 | 5512.6 | 5487.4 | 5512.6 | 5512.6 | 5504.1 | 5570.7 |
| 12.5° | 5471.0 | 5504.1 | 5479.2 | 5429.2 | 5479.2 | 5471.0 | 5471.0 | 5487.4 |
| 15° | 5387.7 | 5387.7 | 5404.4 | 5338.0 | 5371.0 | 5362.8 | 5362.8 | 5379.5 |
| 17.5° | 5304.7 | 5304.7 | 5296.2 | 5279.5 | 5271.3 | 5296.2 | 5271.3 | 5312.8 |
| 20° | 5188.3 | 5205.0 | 5254.7 | 5171.6 | 5196.5 | 5171.6 | 5171.6 | 5121.6 |
| 22.5° | 5046.8 | 5130.1 | 5088.3 | 5080.1 | 5071.9 | 5080.1 | 5096.8 | 5038.6 |
| 25° | 4955.3 | 4955.3 | 4971.9 | 4922.2 | 4922.2 | 4938.9 | 4930.4 | 4913.7 |
| 27.5° | 4830.7 | 4822.2 | 4814.0 | 4797.4 | 4838.9 | 4805.9 | 4805.9 | 4805.9 |
| 30° | 4656.2 | 4681.0 | 4672.8 | 4631.0 | 4681.0 | 4664.3 | 4639.5 | 4589.5 |
| 32.5° | 4506.5 | 4539.8 | 4489.8 | 4481.6 | 4473.1 | 4481.6 | 4489.8 | 4448.3 |
| 35° | 4323.4 | 4331.9 | 4331.9 | 4298.6 | 4306.8 | 4298.6 | 4281.9 | 4290.1 |
| 37.5° | 4157.1 | 4148.9 | 4107.4 | 4090.7 | 4098.9 | 4098.9 | 4107.4 | 4090.7 |
| 40° | 3924.3 | 3949.5 | 3949.5 | 3891.3 | 3907.7 | 3891.3 | 3891.3 | 3882.8 |
| 42.5° | 3733.1 | 3741.6 | 3716.4 | 3691.6 | 3691.6 | 3683.4 | 3666.8 | 3683.4 |
| 45° | 3533.7 | 3525.2 | 3500.4 | 3475.5 | 3475.5 | 3467.0 | 3450.4 | 3483.7 |
| 47.5° | 3309.2 | 3292.5 | 3284.3 | 3251.0 | 3251.0 | 3201.0 | 3209.5 | 3242.5 |
| 50° | 3084.6 | 3067.9 | 3034.9 | 3018.3 | 2993.1 | 2968.2 | 2960.1 | 2960.1 |
| 52.5° | 2818.5 | 2818.5 | 2785.2 | 2752.2 | 2743.7 | 2727.0 | 2710.4 | 2718.8 |
| 55° | 2585.8 | 2585.8 | 2561.0 | 2502.8 | 2469.5 | 2427.9 | 2402.8 | 2394.6 |
| 57.5° | 2319.7 | 2303.1 | 2253.1 | 2186.7 | 2153.4 | 2120.0 | 2095.2 | 2095.2 |
| 60° | 2053.7 | 2012.2 | 1962.2 | 1904.0 | 1845.8 | 1787.6 | 1770.9 | 1762.8 |
| 62.5° | 1762.8 | 1720.9 | 1629.7 | 1563.1 | 1521.5 | 1488.2 | 1454.9 | 1480.0 |
| 65° | 1471.5 | 1413.4 | 1330.3 | 1263.7 | 1222.1 | 1172.5 | 1147.3 | 1147.3 |
| 67.5° | 1164.0 | 1105.8 | 1022.8 | 956.1 | 914.6 | 881.2 | 848.2 | 848.2 |
| 70° | 856.4 | 814.9 | 740.0 | 681.8 | 648.5 | 598.5 | 590.3 | 590.3 |
| 72.5° | 582.1 | 532.1 | 474.0 | 432.4 | 399.1 | 365.8 | 349.1 | 340.9 |
| 75° | 324.2 | 290.9 | 249.4 | 224.6 | 191.2 | 174.5 | 157.9 | 157.9 |
| 77.5° | 133.0 | 108.2 | 83.0 | 66.4 | 50.0 | 41.5 | 33.3 | 41.5 |
| 80° | 24.8 | 16.7 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 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° | 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)