

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: P840567

Luminaire Tested: **LD6C130D010 EU61309030 6LBCSSQMW**

Issue Date: 5/25/2022

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: P840567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C130D010 EU61309030 6LBCSSQMW  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

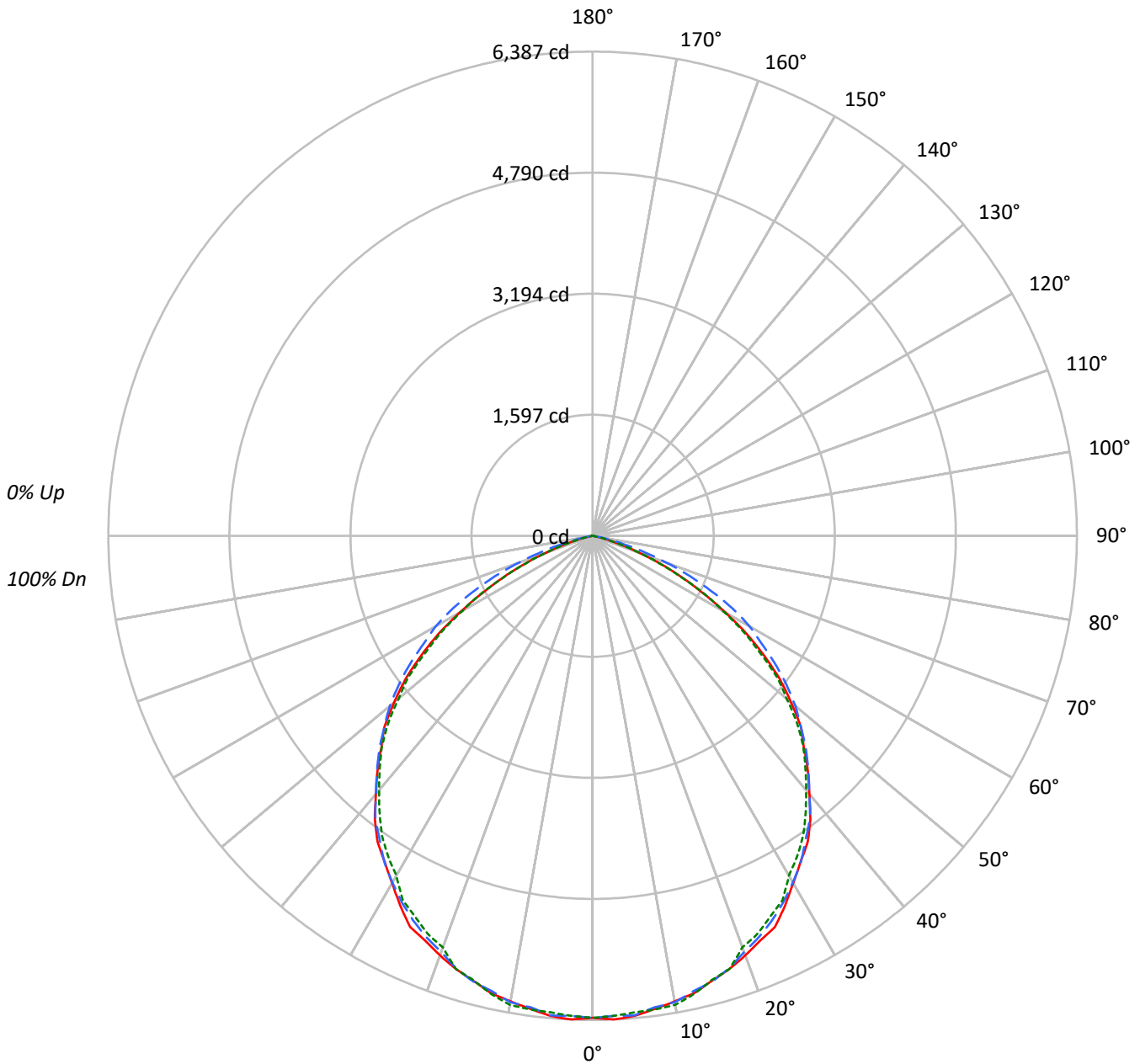
Lumens per Lamp: N/A  
Luminaire Lumens: 15352.0 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 144.3  
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

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CATALOG NUMBER: LD6C130D010 EU61309030 6LBCSSQMW

### Luminous Intensity Polar Plot





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

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 273774 | 273774 | 273774 |
| 5°  | 274819 | 274422 | 272797 |
| 10° | 272676 | 273083 | 274727 |
| 15° | 270893 | 271321 | 270483 |
| 20° | 269855 | 267711 | 264705 |
| 25° | 270441 | 265995 | 263315 |
| 30° | 262970 | 262513 | 257377 |
| 35° | 259779 | 257319 | 254354 |
| 40° | 249854 | 249854 | 246167 |
| 45° | 239857 | 242123 | 239273 |
| 50° | 228666 | 233703 | 223649 |
| 55° | 207683 | 220362 | 202759 |
| 60° | 173635 | 205927 | 171224 |
| 65° | 132819 | 175791 | 131841 |
| 70° | 82657  | 129864 | 83828  |
| 75° | 31225  | 70235  | 29628  |
| 80° | 2281   | 11604  | 2281   |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 601.4   | 3.9       |
| 10°-20°   | 1714.9  | 11.2      |
| 20°-30°   | 2580.5  | 16.8      |
| 30°-40°   | 3052.7  | 19.9      |
| 40°-50°   | 3046.4  | 19.8      |
| 50°-60°   | 2526.2  | 16.5      |
| 60°-70°   | 1475.9  | 9.6       |
| 70°-80°   | 351.5   | 2.3       |
| 80°-90°   | 2.5     | 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°    | 4896.8  | 31.9      |
| 0°-40°    | 7949.5  | 51.8      |
| 0°-60°    | 13522.1 | 88.1      |
| 0°-90°    | 15352.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 15352.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6359 | 6359  | 6359 | 6359  | 6359 |      |
| 5°  | 6359 | 6326  | 6349 | 6331  | 6312 | 602  |
| 15° | 6077 | 6073  | 6087 | 6059  | 6068 | 1718 |
| 25° | 5693 | 5627  | 5599 | 5580  | 5543 | 2602 |
| 35° | 4942 | 4896  | 4896 | 4868  | 4839 | 3073 |
| 45° | 3939 | 3944  | 3976 | 3934  | 3930 | 3047 |
| 55° | 2767 | 2865  | 2936 | 2856  | 2701 | 2456 |
| 65° | 1304 | 1468  | 1726 | 1463  | 1294 | 1296 |
| 75° | 188  | 272   | 422  | 267   | 178  | 254  |
| 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°    | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 |
| 2.5°  | 6387.0 | 6349.4 | 6377.4 | 6321.4 | 6358.6 | 6321.4 | 6330.6 | 6311.8 | 6349.4 | 6339.8 | 6330.6 |
| 5°    | 6358.6 | 6368.2 | 6349.4 | 6368.2 | 6339.8 | 6311.8 | 6339.8 | 6321.4 | 6265.0 | 6349.4 | 6330.6 |
| 7.5°  | 6293.0 | 6302.6 | 6283.8 | 6311.8 | 6293.0 | 6255.4 | 6330.6 | 6274.2 | 6265.0 | 6274.2 | 6311.8 |
| 10°   | 6236.9 | 6255.4 | 6246.2 | 6236.9 | 6246.2 | 6246.2 | 6227.3 | 6199.3 | 6227.3 | 6246.2 | 6236.9 |
| 12.5° | 6180.5 | 6208.5 | 6189.7 | 6171.3 | 6152.5 | 6161.7 | 6180.5 | 6133.7 | 6133.7 | 6152.5 | 6208.5 |
| 15°   | 6077.3 | 6096.1 | 6105.3 | 6068.1 | 6068.1 | 6077.3 | 6114.9 | 6039.7 | 6077.3 | 6086.9 | 6096.1 |
| 17.5° | 5992.9 | 6002.4 | 6002.4 | 5974.1 | 5992.9 | 5964.8 | 5992.9 | 5955.3 | 5992.9 | 5983.6 | 6002.4 |
| 20°   | 5889.6 | 5908.4 | 5889.6 | 5889.6 | 5871.2 | 5880.4 | 5880.4 | 5880.4 | 5852.4 | 5842.8 | 5861.6 |
| 22.5° | 5777.2 | 5777.2 | 5758.4 | 5777.2 | 5758.4 | 5749.1 | 5796.0 | 5721.1 | 5796.0 | 5730.3 | 5786.7 |
| 25°   | 5692.7 | 5645.9 | 5617.9 | 5608.3 | 5645.9 | 5608.3 | 5627.1 | 5599.1 | 5617.9 | 5599.1 | 5608.3 |
| 27.5° | 5495.8 | 5467.8 | 5458.2 | 5467.8 | 5467.8 | 5458.2 | 5495.8 | 5392.6 | 5458.2 | 5449.0 | 5449.0 |
| 30°   | 5289.4 | 5289.4 | 5308.2 | 5289.4 | 5308.2 | 5280.2 | 5317.8 | 5233.3 | 5289.4 | 5280.2 | 5289.4 |
| 32.5° | 5102.1 | 5111.3 | 5111.3 | 5130.1 | 5102.1 | 5111.3 | 5111.3 | 5083.3 | 5102.1 | 5111.3 | 5092.5 |
| 35°   | 4942.4 | 4895.6 | 4895.6 | 4895.6 | 4895.6 | 4895.6 | 4914.4 | 4886.4 | 4914.4 | 4895.6 | 4895.6 |
| 37.5° | 4717.5 | 4670.7 | 4670.7 | 4661.1 | 4707.9 | 4679.9 | 4726.7 | 4689.1 | 4689.1 | 4707.9 | 4707.9 |
| 40°   | 4445.4 | 4464.2 | 4436.2 | 4473.4 | 4464.2 | 4426.6 | 4511.0 | 4455.0 | 4492.2 | 4445.4 | 4483.0 |
| 42.5° | 4201.7 | 4210.9 | 4201.7 | 4192.1 | 4229.7 | 4220.5 | 4257.8 | 4220.5 | 4210.9 | 4210.9 | 4276.6 |
| 45°   | 3939.2 | 3939.2 | 3939.2 | 3967.2 | 3939.2 | 3948.4 | 3986.0 | 3967.2 | 3986.0 | 3976.4 | 4042.1 |
| 47.5° | 3723.1 | 3676.3 | 3667.1 | 3723.1 | 3713.9 | 3723.1 | 3723.1 | 3732.7 | 3741.9 | 3723.1 | 3751.5 |
| 50°   | 3413.8 | 3395.0 | 3395.0 | 3404.6 | 3413.8 | 3432.6 | 3460.6 | 3479.4 | 3460.6 | 3489.0 | 3498.2 |
| 52.5° | 3113.7 | 3094.9 | 3104.5 | 3141.7 | 3160.5 | 3151.3 | 3198.1 | 3207.3 | 3198.1 | 3216.9 | 3216.9 |
| 55°   | 2766.7 | 2747.9 | 2775.9 | 2823.1 | 2851.2 | 2879.2 | 2926.0 | 2888.8 | 2926.0 | 2935.6 | 2944.8 |
| 57.5° | 2410.2 | 2401.0 | 2410.2 | 2457.0 | 2485.4 | 2551.0 | 2625.9 | 2625.9 | 2663.5 | 2635.5 | 2663.5 |
| 60°   | 2016.4 | 2016.4 | 2054.0 | 2082.1 | 2157.3 | 2204.1 | 2278.9 | 2316.5 | 2354.1 | 2391.4 | 2372.9 |
| 62.5° | 1641.1 | 1650.7 | 1678.7 | 1744.3 | 1791.2 | 1857.1 | 1941.2 | 1978.8 | 2044.4 | 2082.1 | 2063.2 |
| 65°   | 1303.7 | 1303.7 | 1322.5 | 1378.6 | 1425.4 | 1509.8 | 1585.0 | 1669.5 | 1707.1 | 1725.5 | 1735.1 |
| 67.5° | 975.2  | 966.0  | 1003.6 | 1041.2 | 1088.0 | 1172.5 | 1256.9 | 1303.7 | 1369.3 | 1388.2 | 1378.6 |
| 70°   | 656.6  | 665.9  | 684.7  | 722.3  | 778.3  | 844.0  | 938.0  | 975.2  | 1012.8 | 1031.6 | 1012.8 |
| 72.5° | 412.6  | 412.6  | 422.2  | 459.4  | 497.0  | 543.8  | 609.5  | 647.1  | 693.9  | 703.5  | 684.7  |
| 75°   | 187.7  | 187.7  | 206.5  | 224.9  | 253.3  | 290.9  | 337.7  | 365.8  | 393.8  | 422.2  | 422.2  |
| 77.5° | 37.6   | 46.8   | 56.4   | 56.4   | 74.9   | 103.2  | 131.3  | 159.3  | 187.7  | 187.7  | 187.7  |
| 80°   | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 18.8   | 28.0   | 46.8   | 46.8   | 46.8   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 | 6358.6 |
| 2.5°  | 6358.6 | 6415.0 | 6358.6 | 6330.6 | 6368.2 | 6358.6 | 6330.6 | 6339.8 |
| 5°    | 6330.6 | 6349.4 | 6368.2 | 6293.0 | 6339.8 | 6349.4 | 6330.6 | 6311.8 |
| 7.5°  | 6302.6 | 6311.8 | 6302.6 | 6283.8 | 6283.8 | 6283.8 | 6302.6 | 6302.6 |
| 10°   | 6293.0 | 6265.0 | 6218.1 | 6189.7 | 6218.1 | 6218.1 | 6208.5 | 6283.8 |
| 12.5° | 6171.3 | 6208.5 | 6180.5 | 6124.1 | 6180.5 | 6171.3 | 6171.3 | 6189.7 |
| 15°   | 6077.3 | 6077.3 | 6096.1 | 6021.2 | 6058.5 | 6049.3 | 6049.3 | 6068.1 |
| 17.5° | 5983.6 | 5983.6 | 5974.1 | 5955.3 | 5946.0 | 5974.1 | 5946.0 | 5992.9 |
| 20°   | 5852.4 | 5871.2 | 5927.2 | 5833.6 | 5861.6 | 5833.6 | 5833.6 | 5777.2 |
| 22.5° | 5692.7 | 5786.7 | 5739.6 | 5730.3 | 5721.1 | 5730.3 | 5749.1 | 5683.5 |
| 25°   | 5589.5 | 5589.5 | 5608.3 | 5552.3 | 5552.3 | 5571.1 | 5561.5 | 5542.7 |
| 27.5° | 5449.0 | 5439.4 | 5430.2 | 5411.4 | 5458.2 | 5421.0 | 5421.0 | 5421.0 |
| 30°   | 5252.1 | 5280.2 | 5270.9 | 5223.8 | 5280.2 | 5261.4 | 5233.3 | 5176.9 |
| 32.5° | 5083.3 | 5120.9 | 5064.5 | 5055.2 | 5045.7 | 5055.2 | 5064.5 | 5017.6 |
| 35°   | 4876.8 | 4886.4 | 4886.4 | 4848.8 | 4858.0 | 4848.8 | 4830.0 | 4839.2 |
| 37.5° | 4689.1 | 4679.9 | 4633.1 | 4614.3 | 4623.5 | 4623.5 | 4633.1 | 4614.3 |
| 40°   | 4426.6 | 4455.0 | 4455.0 | 4389.4 | 4407.8 | 4389.4 | 4389.4 | 4379.8 |
| 42.5° | 4210.9 | 4220.5 | 4192.1 | 4164.1 | 4164.1 | 4154.9 | 4136.1 | 4154.9 |
| 45°   | 3986.0 | 3976.4 | 3948.4 | 3920.4 | 3920.4 | 3910.8 | 3892.0 | 3929.6 |
| 47.5° | 3732.7 | 3713.9 | 3704.7 | 3667.1 | 3667.1 | 3610.7 | 3620.3 | 3657.5 |
| 50°   | 3479.4 | 3460.6 | 3423.4 | 3404.6 | 3376.2 | 3348.2 | 3338.9 | 3338.9 |
| 52.5° | 3179.3 | 3179.3 | 3141.7 | 3104.5 | 3094.9 | 3076.1 | 3057.3 | 3066.8 |
| 55°   | 2916.8 | 2916.8 | 2888.8 | 2823.1 | 2785.5 | 2738.7 | 2710.3 | 2701.1 |
| 57.5° | 2616.7 | 2597.9 | 2541.5 | 2466.6 | 2429.0 | 2391.4 | 2363.4 | 2363.4 |
| 60°   | 2316.5 | 2269.7 | 2213.3 | 2147.7 | 2082.1 | 2016.4 | 1997.6 | 1988.4 |
| 62.5° | 1988.4 | 1941.2 | 1838.3 | 1763.1 | 1716.3 | 1678.7 | 1641.1 | 1669.5 |
| 65°   | 1659.9 | 1594.3 | 1500.6 | 1425.4 | 1378.6 | 1322.5 | 1294.1 | 1294.1 |
| 67.5° | 1312.9 | 1247.3 | 1153.7 | 1078.5 | 1031.6 | 994.0  | 956.8  | 956.8  |
| 70°   | 966.0  | 919.2  | 834.7  | 769.1  | 731.5  | 675.1  | 665.9  | 665.9  |
| 72.5° | 656.6  | 600.2  | 534.6  | 487.8  | 450.2  | 412.6  | 393.8  | 384.6  |
| 75°   | 365.8  | 328.1  | 281.3  | 253.3  | 215.7  | 196.9  | 178.1  | 178.1  |
| 77.5° | 150.1  | 122.0  | 93.7   | 74.9   | 56.4   | 46.8   | 37.6   | 46.8   |
| 80°   | 28.0   | 18.8   | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    |
| 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)