

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: P840572

Luminaire Tested: **LD6C130D010 EU61309040 6LBCSSQMMS**

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: P840572  
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 EU61309040 6LBCSSQMMS  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

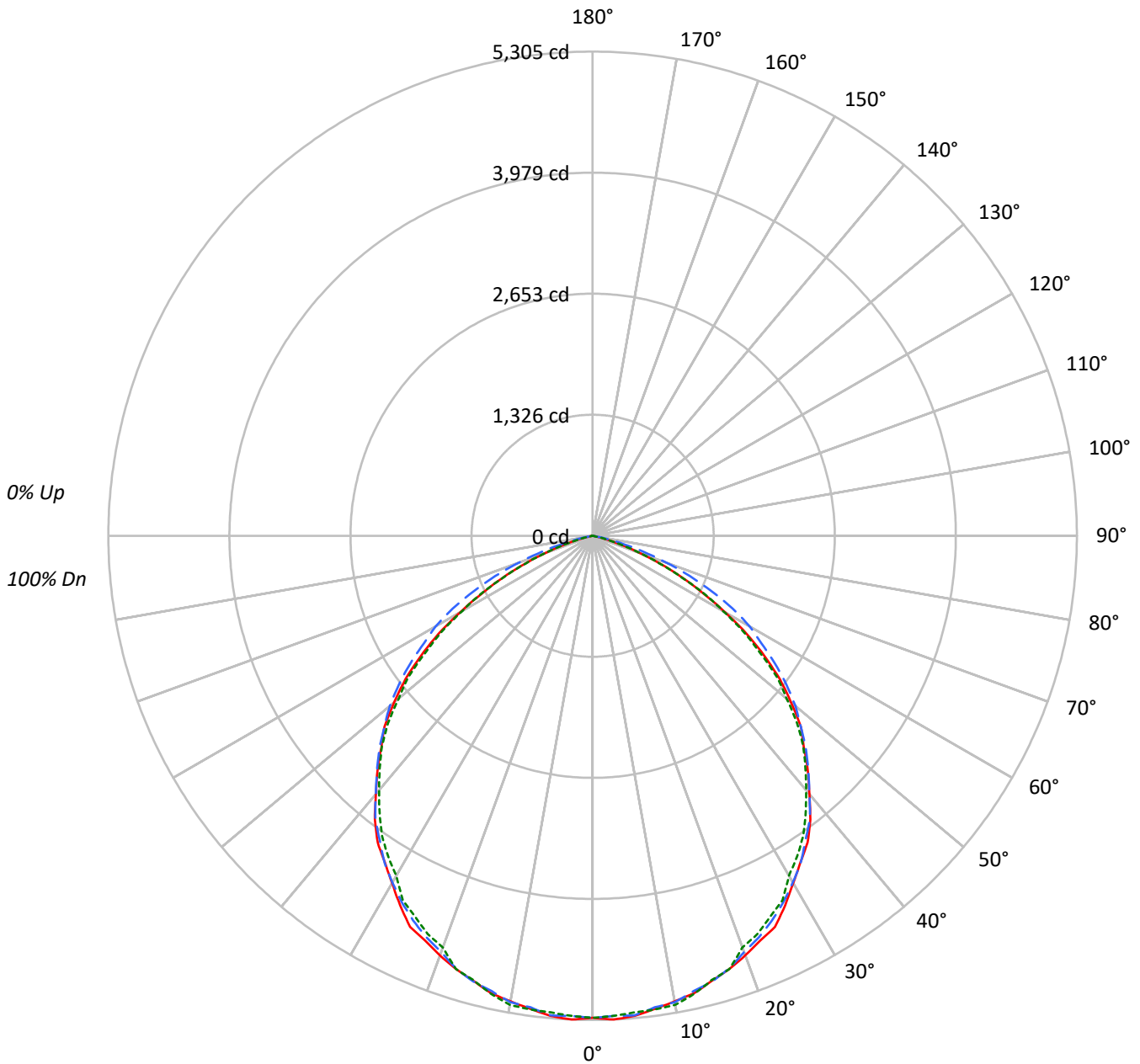
Lumens per Lamp: N/A  
Luminaire Lumens: 12752.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 144.3  
Input Voltage (V):  
Input Current (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

TEST NUMBER: P840572

CATALOG NUMBER: LD6C130D010 EU61309040 6LBCSSQMMS

### Luminous Intensity Polar Plot





TEST NUMBER: P840572

CATALOG NUMBER: LD6C130D010 EU61309040 6LBCSSQMMS

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 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°  | 227407 | 227407 | 227407 |
| 5°  | 228276 | 227947 | 226594 |
| 10° | 226495 | 226832 | 228196 |
| 15° | 225012 | 225369 | 224673 |
| 20° | 224155 | 222373 | 219876 |
| 25° | 224640 | 220944 | 218721 |
| 30° | 218434 | 218051 | 213790 |
| 35° | 215785 | 213740 | 211275 |
| 40° | 207538 | 207538 | 204474 |
| 45° | 199232 | 201119 | 198751 |
| 50° | 189936 | 194123 | 185777 |
| 55° | 172515 | 183039 | 168416 |
| 60° | 144228 | 171052 | 142221 |
| 65° | 110324 | 146022 | 109519 |
| 70° | 68658  | 107872 | 69628  |
| 75° | 25935  | 58340  | 24604  |
| 80° | 1909   | 9645   | 1909   |
| 85° | 0      | 0      | 0      |



TEST NUMBER: P840572

CATALOG NUMBER: LD6C130D010 EU61309040 6LBCSSQMMS

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 499.5   | 3.9       |
| 10°-20°   | 1424.5  | 11.2      |
| 20°-30°   | 2143.5  | 16.8      |
| 30°-40°   | 2535.7  | 19.9      |
| 40°-50°   | 2530.5  | 19.8      |
| 50°-60°   | 2098.4  | 16.5      |
| 60°-70°   | 1226.0  | 9.6       |
| 70°-80°   | 291.9   | 2.3       |
| 80°-90°   | 2.1     | 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°    | 4067.5  | 31.9      |
| 0°-40°    | 6603.1  | 51.8      |
| 0°-60°    | 11232.0 | 88.1      |
| 0°-90°    | 12752.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 12752.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5282 | 5282  | 5282 | 5282  | 5282 |      |
| 5°  | 5282 | 5254  | 5274 | 5258  | 5243 | 500  |
| 15° | 5048 | 5044  | 5056 | 5033  | 5040 | 1427 |
| 25° | 4729 | 4674  | 4651 | 4635  | 4604 | 2161 |
| 35° | 4105 | 4066  | 4066 | 4043  | 4020 | 2552 |
| 45° | 3272 | 3276  | 3303 | 3268  | 3264 | 2531 |
| 55° | 2298 | 2380  | 2438 | 2372  | 2244 | 2040 |
| 65° | 1083 | 1219  | 1433 | 1215  | 1075 | 1076 |
| 75° | 156  | 226   | 351  | 222   | 148  | 211  |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P840572

CATALOG NUMBER: LD6C130D010 EU61309040 6LBCSSQMMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 |
| 2.5°  | 5305.3 | 5274.1 | 5297.3 | 5250.8 | 5281.7 | 5250.8 | 5258.4 | 5242.8 | 5274.1 | 5266.1 | 5258.4 |
| 5°    | 5281.7 | 5289.7 | 5274.1 | 5289.7 | 5266.1 | 5242.8 | 5266.1 | 5250.8 | 5203.9 | 5274.1 | 5258.4 |
| 7.5°  | 5227.2 | 5235.2 | 5219.5 | 5242.8 | 5227.2 | 5196.0 | 5258.4 | 5211.6 | 5203.9 | 5211.6 | 5242.8 |
| 10°   | 5180.6 | 5196.0 | 5188.3 | 5180.6 | 5188.3 | 5188.3 | 5172.7 | 5149.4 | 5172.7 | 5188.3 | 5180.6 |
| 12.5° | 5133.8 | 5157.1 | 5141.5 | 5126.1 | 5110.5 | 5118.2 | 5133.8 | 5094.9 | 5094.9 | 5110.5 | 5157.1 |
| 15°   | 5048.0 | 5063.7 | 5071.3 | 5040.4 | 5040.4 | 5048.0 | 5079.3 | 5016.8 | 5048.0 | 5056.0 | 5063.7 |
| 17.5° | 4977.9 | 4985.9 | 4985.9 | 4962.3 | 4977.9 | 4954.6 | 4977.9 | 4946.7 | 4977.9 | 4970.3 | 4985.9 |
| 20°   | 4892.2 | 4907.8 | 4892.2 | 4892.2 | 4876.8 | 4884.5 | 4884.5 | 4884.5 | 4861.2 | 4853.3 | 4868.9 |
| 22.5° | 4798.8 | 4798.8 | 4783.1 | 4798.8 | 4783.1 | 4775.5 | 4814.4 | 4752.2 | 4814.4 | 4759.9 | 4806.7 |
| 25°   | 4728.6 | 4689.7 | 4666.4 | 4658.5 | 4689.7 | 4658.5 | 4674.1 | 4650.8 | 4666.4 | 4650.8 | 4658.5 |
| 27.5° | 4565.1 | 4541.8 | 4533.8 | 4541.8 | 4541.8 | 4533.8 | 4565.1 | 4479.3 | 4533.8 | 4526.2 | 4526.2 |
| 30°   | 4393.6 | 4393.6 | 4409.2 | 4393.6 | 4409.2 | 4385.9 | 4417.1 | 4347.0 | 4393.6 | 4385.9 | 4393.6 |
| 32.5° | 4238.0 | 4245.6 | 4245.6 | 4261.3 | 4238.0 | 4245.6 | 4245.6 | 4222.4 | 4238.0 | 4245.6 | 4230.0 |
| 35°   | 4105.4 | 4066.5 | 4066.5 | 4066.5 | 4066.5 | 4066.5 | 4082.1 | 4058.8 | 4082.1 | 4066.5 | 4066.5 |
| 37.5° | 3918.6 | 3879.7 | 3879.7 | 3871.7 | 3910.6 | 3887.3 | 3926.2 | 3895.0 | 3895.0 | 3910.6 | 3910.6 |
| 40°   | 3692.5 | 3708.2 | 3684.9 | 3715.8 | 3708.2 | 3676.9 | 3747.1 | 3700.5 | 3731.4 | 3692.5 | 3723.8 |
| 42.5° | 3490.1 | 3497.8 | 3490.1 | 3482.2 | 3513.4 | 3505.7 | 3536.7 | 3505.7 | 3497.8 | 3497.8 | 3552.3 |
| 45°   | 3272.0 | 3272.0 | 3272.0 | 3295.3 | 3272.0 | 3279.7 | 3310.9 | 3295.3 | 3310.9 | 3303.0 | 3357.5 |
| 47.5° | 3092.6 | 3053.7 | 3046.0 | 3092.6 | 3084.9 | 3092.6 | 3092.6 | 3100.5 | 3108.2 | 3092.6 | 3116.2 |
| 50°   | 2835.6 | 2820.0 | 2820.0 | 2828.0 | 2835.6 | 2851.3 | 2874.5 | 2890.2 | 2874.5 | 2898.1 | 2905.8 |
| 52.5° | 2586.3 | 2570.7 | 2578.7 | 2609.6 | 2625.2 | 2617.6 | 2656.5 | 2664.1 | 2656.5 | 2672.1 | 2672.1 |
| 55°   | 2298.2 | 2282.5 | 2305.8 | 2345.0 | 2368.3 | 2391.6 | 2430.5 | 2399.5 | 2430.5 | 2438.4 | 2446.1 |
| 57.5° | 2002.0 | 1994.3 | 2002.0 | 2040.9 | 2064.5 | 2119.0 | 2181.2 | 2181.2 | 2212.4 | 2189.1 | 2212.4 |
| 60°   | 1674.9 | 1674.9 | 1706.2 | 1729.4 | 1791.9 | 1830.8 | 1893.0 | 1924.2 | 1955.5 | 1986.4 | 1971.1 |
| 62.5° | 1363.2 | 1371.1 | 1394.4 | 1448.9 | 1487.8 | 1542.6 | 1612.5 | 1643.7 | 1698.2 | 1729.4 | 1713.8 |
| 65°   | 1082.9 | 1082.9 | 1098.5 | 1145.1 | 1184.0 | 1254.1 | 1316.6 | 1386.7 | 1418.0 | 1433.3 | 1441.2 |
| 67.5° | 810.1  | 802.4  | 833.6  | 864.9  | 903.8  | 973.9  | 1044.0 | 1082.9 | 1137.4 | 1153.1 | 1145.1 |
| 70°   | 545.4  | 553.1  | 568.7  | 600.0  | 646.5  | 701.0  | 779.1  | 810.1  | 841.3  | 856.9  | 841.3  |
| 72.5° | 342.7  | 342.7  | 350.7  | 381.6  | 412.8  | 451.7  | 506.2  | 537.5  | 576.4  | 584.3  | 568.7  |
| 75°   | 155.9  | 155.9  | 171.5  | 186.8  | 210.4  | 241.6  | 280.5  | 303.8  | 327.1  | 350.7  | 350.7  |
| 77.5° | 31.2   | 38.9   | 46.9   | 46.9   | 62.2   | 85.7   | 109.0  | 132.3  | 155.9  | 155.9  | 155.9  |
| 80°   | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 15.6   | 23.3   | 38.9   | 38.9   | 38.9   |
| 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: P840572

CATALOG NUMBER: LD6C130D010 EU61309040 6LBCSSQMMS

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 | 5281.7 |
| 2.5°  | 5281.7 | 5328.6 | 5281.7 | 5258.4 | 5289.7 | 5281.7 | 5258.4 | 5266.1 |
| 5°    | 5258.4 | 5274.1 | 5289.7 | 5227.2 | 5266.1 | 5274.1 | 5258.4 | 5242.8 |
| 7.5°  | 5235.2 | 5242.8 | 5235.2 | 5219.5 | 5219.5 | 5219.5 | 5235.2 | 5235.2 |
| 10°   | 5227.2 | 5203.9 | 5165.0 | 5141.5 | 5165.0 | 5165.0 | 5157.1 | 5219.5 |
| 12.5° | 5126.1 | 5157.1 | 5133.8 | 5086.9 | 5133.8 | 5126.1 | 5126.1 | 5141.5 |
| 15°   | 5048.0 | 5048.0 | 5063.7 | 5001.5 | 5032.4 | 5024.8 | 5024.8 | 5040.4 |
| 17.5° | 4970.3 | 4970.3 | 4962.3 | 4946.7 | 4939.0 | 4962.3 | 4939.0 | 4977.9 |
| 20°   | 4861.2 | 4876.8 | 4923.4 | 4845.6 | 4868.9 | 4845.6 | 4845.6 | 4798.8 |
| 22.5° | 4728.6 | 4806.7 | 4767.5 | 4759.9 | 4752.2 | 4759.9 | 4775.5 | 4721.0 |
| 25°   | 4642.9 | 4642.9 | 4658.5 | 4611.9 | 4611.9 | 4627.5 | 4619.6 | 4604.0 |
| 27.5° | 4526.2 | 4518.2 | 4510.6 | 4494.9 | 4533.8 | 4502.9 | 4502.9 | 4502.9 |
| 30°   | 4362.6 | 4385.9 | 4378.3 | 4339.1 | 4385.9 | 4370.3 | 4347.0 | 4300.2 |
| 32.5° | 4222.4 | 4253.6 | 4206.8 | 4199.1 | 4191.1 | 4199.1 | 4206.8 | 4167.9 |
| 35°   | 4050.9 | 4058.8 | 4058.8 | 4027.6 | 4035.3 | 4027.6 | 4012.0 | 4019.6 |
| 37.5° | 3895.0 | 3887.3 | 3848.4 | 3832.8 | 3840.5 | 3840.5 | 3848.4 | 3832.8 |
| 40°   | 3676.9 | 3700.5 | 3700.5 | 3646.0 | 3661.3 | 3646.0 | 3646.0 | 3638.0 |
| 42.5° | 3497.8 | 3505.7 | 3482.2 | 3458.9 | 3458.9 | 3451.2 | 3435.6 | 3451.2 |
| 45°   | 3310.9 | 3303.0 | 3279.7 | 3256.4 | 3256.4 | 3248.5 | 3232.9 | 3264.1 |
| 47.5° | 3100.5 | 3084.9 | 3077.3 | 3046.0 | 3046.0 | 2999.2 | 3007.1 | 3038.1 |
| 50°   | 2890.2 | 2874.5 | 2843.6 | 2828.0 | 2804.4 | 2781.1 | 2773.5 | 2773.5 |
| 52.5° | 2640.9 | 2640.9 | 2609.6 | 2578.7 | 2570.7 | 2555.1 | 2539.5 | 2547.4 |
| 55°   | 2422.8 | 2422.8 | 2399.5 | 2345.0 | 2313.8 | 2274.9 | 2251.3 | 2243.6 |
| 57.5° | 2173.5 | 2157.9 | 2111.0 | 2048.9 | 2017.6 | 1986.4 | 1963.1 | 1963.1 |
| 60°   | 1924.2 | 1885.3 | 1838.5 | 1784.0 | 1729.4 | 1674.9 | 1659.3 | 1651.6 |
| 62.5° | 1651.6 | 1612.5 | 1527.0 | 1464.5 | 1425.6 | 1394.4 | 1363.2 | 1386.7 |
| 65°   | 1378.8 | 1324.3 | 1246.5 | 1184.0 | 1145.1 | 1098.5 | 1075.0 | 1075.0 |
| 67.5° | 1090.6 | 1036.1 | 958.3  | 895.8  | 856.9  | 825.7  | 794.7  | 794.7  |
| 70°   | 802.4  | 763.5  | 693.4  | 638.9  | 607.6  | 560.8  | 553.1  | 553.1  |
| 72.5° | 545.4  | 498.6  | 444.1  | 405.2  | 373.9  | 342.7  | 327.1  | 319.4  |
| 75°   | 303.8  | 272.6  | 233.7  | 210.4  | 179.2  | 163.5  | 147.9  | 147.9  |
| 77.5° | 124.6  | 101.4  | 77.8   | 62.2   | 46.9   | 38.9   | 31.2   | 38.9   |
| 80°   | 23.3   | 15.6   | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    |
| 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)