

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: **LD4C55D010 EX4C559027 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: LD4C55D010 EX4C559027 4LBPSSQMW  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

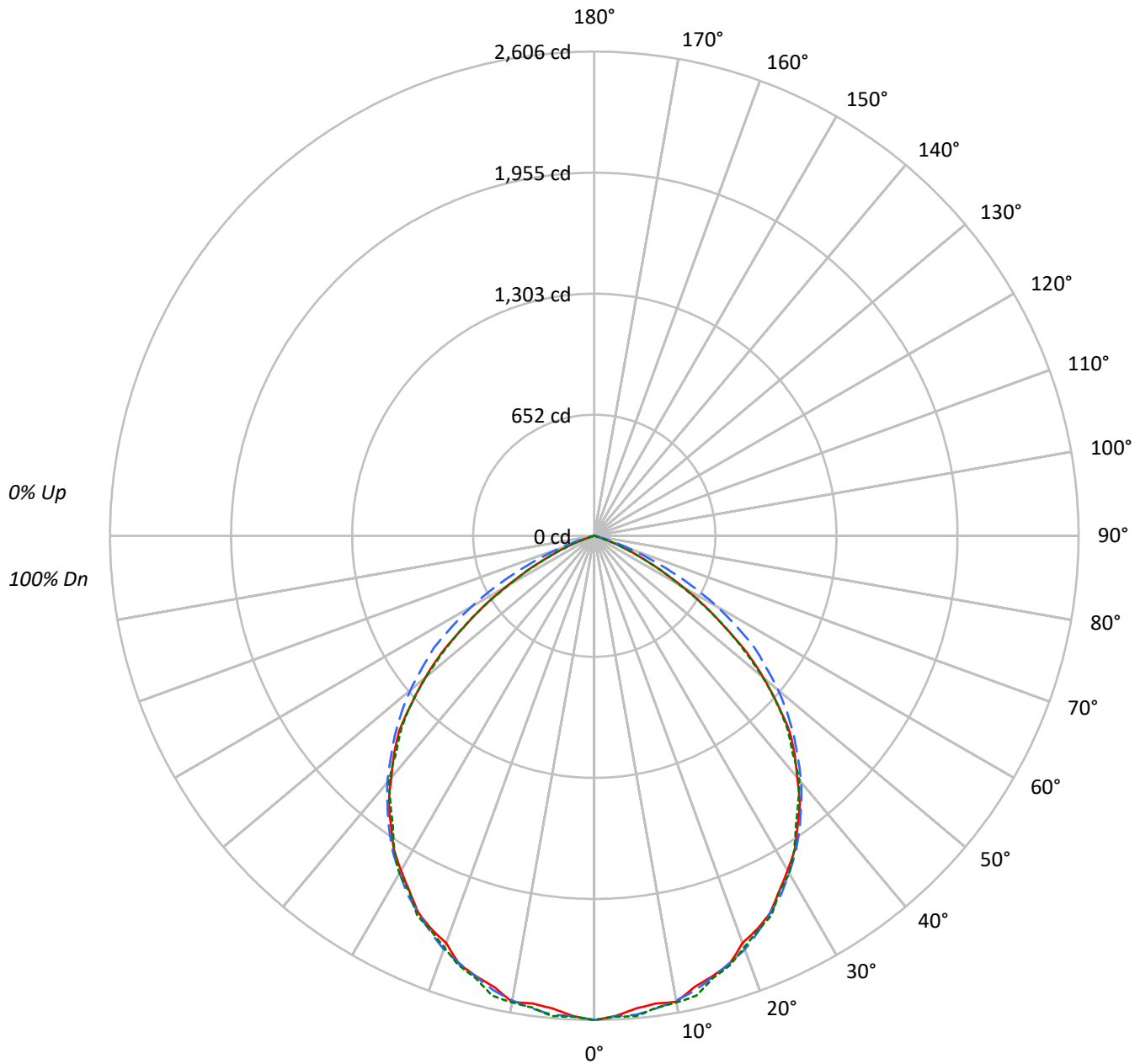
Lumens per Lamp: N/A  
Luminaire Lumens: 5567.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
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

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CATALOG NUMBER: LD4C55D010 EX4C559027 4LBPSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P#

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| 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°  | 251460 | 251460 | 251460 |
| 5°  | 247403 | 250619 | 251335 |
| 10° | 249539 | 248814 | 249891 |
| 15° | 245167 | 245526 | 246265 |
| 20° | 239463 | 243262 | 242133 |
| 25° | 238425 | 238425 | 240001 |
| 30° | 231778 | 233427 | 233851 |
| 35° | 224545 | 226736 | 222802 |
| 40° | 214014 | 218208 | 216344 |
| 45° | 202555 | 207099 | 200536 |
| 50° | 178376 | 193927 | 177265 |
| 55° | 144470 | 177476 | 145109 |
| 60° | 105713 | 147165 | 103590 |
| 65° | 64247  | 104795 | 62558  |
| 70° | 25052  | 56423  | 24036  |
| 75° | 2759   | 15210  | 2759   |
| 80° | 2111   | 2111   | 2111   |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 246.0  | 4.4       |
| 10°-20°   | 696.1  | 12.5      |
| 20°-30°   | 1032.8 | 18.6      |
| 30°-40°   | 1196.8 | 21.5      |
| 40°-50°   | 1147.4 | 20.6      |
| 50°-60°   | 843.7  | 15.2      |
| 60°-70°   | 364.4  | 6.5       |
| 70°-80°   | 39.4   | 0.7       |
| 80°-90°   | 0.5    | 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°    | 1974.9 | 35.5      |
| 0°-40°    | 3171.7 | 57.0      |
| 0°-60°    | 5162.8 | 92.7      |
| 0°-90°    | 5567.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5567.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2606 | 2606  | 2606 | 2606  | 2606 |      |
| 5°  | 2554 | 2580  | 2588 | 2591  | 2595 | 244  |
| 15° | 2454 | 2469  | 2458 | 2462  | 2465 | 692  |
| 25° | 2240 | 2236  | 2240 | 2243  | 2254 | 1025 |
| 35° | 1906 | 1918  | 1925 | 1921  | 1892 | 1192 |
| 45° | 1484 | 1488  | 1518 | 1496  | 1470 | 1128 |
| 55° | 859  | 948   | 1055 | 944   | 863  | 773  |
| 65° | 281  | 352   | 459  | 348   | 274  | 289  |
| 75° | 7    | 11    | 41   | 7     | 7    | 23   |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559027 4LBPSSQMW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 |
| 2.5°  | 2587.5 | 2617.1 | 2620.9 | 2602.3 | 2594.9 | 2583.9 | 2609.7 | 2591.3 | 2598.7 | 2591.3 | 2587.5 |
| 5°    | 2554.3 | 2587.5 | 2591.3 | 2591.3 | 2583.9 | 2580.1 | 2591.3 | 2587.5 | 2583.9 | 2576.5 | 2587.5 |
| 7.5°  | 2539.5 | 2557.9 | 2576.5 | 2554.3 | 2565.3 | 2561.7 | 2587.5 | 2576.5 | 2572.7 | 2572.7 | 2565.3 |
| 10°   | 2546.9 | 2543.1 | 2557.9 | 2535.7 | 2543.1 | 2535.7 | 2557.9 | 2557.9 | 2550.5 | 2543.1 | 2539.5 |
| 12.5° | 2487.5 | 2517.1 | 2517.1 | 2513.5 | 2506.1 | 2494.9 | 2517.1 | 2532.1 | 2509.7 | 2509.7 | 2506.1 |
| 15°   | 2454.3 | 2461.7 | 2465.3 | 2465.3 | 2461.7 | 2469.1 | 2480.1 | 2465.3 | 2469.1 | 2450.5 | 2457.9 |
| 17.5° | 2417.3 | 2402.5 | 2413.5 | 2406.1 | 2409.9 | 2417.3 | 2432.1 | 2432.1 | 2409.9 | 2406.1 | 2413.5 |
| 20°   | 2332.1 | 2376.5 | 2380.3 | 2358.1 | 2361.7 | 2361.7 | 2387.7 | 2365.5 | 2380.3 | 2361.7 | 2369.1 |
| 22.5° | 2291.3 | 2320.9 | 2324.7 | 2295.1 | 2313.5 | 2291.3 | 2317.3 | 2283.9 | 2320.9 | 2295.1 | 2306.1 |
| 25°   | 2239.5 | 2235.9 | 2246.9 | 2232.1 | 2235.9 | 2235.9 | 2254.3 | 2239.5 | 2250.7 | 2235.9 | 2239.5 |
| 27.5° | 2154.5 | 2184.1 | 2180.3 | 2165.5 | 2172.9 | 2169.3 | 2206.3 | 2165.5 | 2187.7 | 2169.3 | 2176.7 |
| 30°   | 2080.3 | 2106.3 | 2098.9 | 2084.1 | 2084.1 | 2072.9 | 2113.7 | 2102.5 | 2098.9 | 2098.9 | 2095.1 |
| 32.5° | 2006.3 | 2010.1 | 2002.7 | 2006.3 | 2010.1 | 1995.3 | 2028.5 | 2013.7 | 2010.1 | 2013.7 | 2017.5 |
| 35°   | 1906.3 | 1906.3 | 1913.8 | 1902.7 | 1917.5 | 1917.5 | 1947.1 | 1928.6 | 1924.9 | 1913.8 | 1924.9 |
| 37.5° | 1817.5 | 1806.5 | 1810.1 | 1810.1 | 1817.5 | 1824.9 | 1839.7 | 1832.3 | 1832.3 | 1821.3 | 1828.7 |
| 40°   | 1699.1 | 1691.7 | 1702.8 | 1702.8 | 1713.9 | 1713.9 | 1728.7 | 1721.3 | 1732.4 | 1732.4 | 1732.4 |
| 42.5° | 1595.5 | 1595.5 | 1588.1 | 1599.1 | 1602.9 | 1599.1 | 1625.1 | 1621.3 | 1625.1 | 1617.7 | 1621.3 |
| 45°   | 1484.4 | 1484.4 | 1477.0 | 1473.3 | 1491.8 | 1488.1 | 1517.7 | 1506.6 | 1521.4 | 1514.0 | 1517.7 |
| 47.5° | 1332.6 | 1351.1 | 1340.0 | 1351.1 | 1373.3 | 1377.1 | 1395.6 | 1388.2 | 1403.0 | 1391.9 | 1406.7 |
| 50°   | 1188.3 | 1188.3 | 1199.4 | 1214.2 | 1236.4 | 1240.1 | 1262.3 | 1277.1 | 1284.5 | 1288.2 | 1291.9 |
| 52.5° | 1036.5 | 1032.8 | 1043.9 | 1062.4 | 1080.9 | 1095.7 | 1118.0 | 1140.2 | 1155.0 | 1177.2 | 1166.0 |
| 55°   | 858.8  | 866.2  | 877.4  | 899.6  | 929.2  | 947.6  | 966.2  | 995.8  | 1021.7 | 1032.8 | 1055.0 |
| 57.5° | 707.0  | 699.6  | 707.0  | 736.6  | 770.0  | 784.8  | 810.7  | 840.3  | 877.4  | 899.6  | 907.0  |
| 60°   | 547.8  | 551.6  | 559.0  | 585.0  | 610.8  | 633.0  | 644.2  | 692.2  | 725.6  | 747.8  | 762.6  |
| 62.5° | 403.6  | 411.0  | 418.4  | 440.6  | 466.4  | 485.0  | 503.4  | 544.2  | 573.8  | 596.0  | 610.8  |
| 65°   | 281.4  | 285.0  | 296.2  | 307.2  | 333.2  | 351.6  | 366.4  | 399.8  | 429.4  | 448.0  | 459.0  |
| 67.5° | 174.0  | 177.6  | 185.0  | 200.0  | 218.4  | 233.2  | 248.0  | 270.2  | 296.2  | 314.6  | 318.4  |
| 70°   | 88.8   | 92.6   | 96.2   | 107.4  | 122.2  | 129.6  | 140.6  | 159.2  | 177.6  | 192.4  | 200.0  |
| 72.5° | 29.6   | 29.6   | 33.4   | 40.8   | 48.2   | 55.6   | 59.2   | 77.8   | 92.6   | 100.0  | 103.6  |
| 75°   | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 11.2   | 11.2   | 22.2   | 29.6   | 37.0   | 40.8   |
| 77.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 7.4    | 7.4    |
| 80°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 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    |



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 | 2606.1 |
| 2.5°  | 2606.1 | 2598.7 | 2594.9 | 2598.7 | 2598.7 | 2594.9 | 2606.1 | 2620.9 | 2639.3 | 2591.3 |
| 5°    | 2602.3 | 2594.9 | 2602.3 | 2580.1 | 2591.3 | 2583.9 | 2598.7 | 2594.9 | 2609.7 | 2594.9 |
| 7.5°  | 2591.3 | 2576.5 | 2580.1 | 2569.1 | 2583.9 | 2565.3 | 2576.5 | 2598.7 | 2583.9 | 2561.7 |
| 10°   | 2554.3 | 2546.9 | 2572.7 | 2535.7 | 2528.3 | 2543.1 | 2572.7 | 2550.5 | 2543.1 | 2550.5 |
| 12.5° | 2517.1 | 2517.1 | 2528.3 | 2498.7 | 2502.3 | 2509.7 | 2524.5 | 2509.7 | 2517.1 | 2535.7 |
| 15°   | 2476.5 | 2469.1 | 2487.5 | 2465.3 | 2461.7 | 2454.3 | 2469.1 | 2469.1 | 2476.5 | 2465.3 |
| 17.5° | 2428.3 | 2417.3 | 2417.3 | 2409.9 | 2406.1 | 2424.7 | 2432.1 | 2435.7 | 2439.5 | 2424.7 |
| 20°   | 2369.1 | 2365.5 | 2376.5 | 2365.5 | 2369.1 | 2372.9 | 2372.9 | 2365.5 | 2398.7 | 2358.1 |
| 22.5° | 2306.1 | 2317.3 | 2302.5 | 2295.1 | 2302.5 | 2309.9 | 2309.9 | 2313.5 | 2306.1 | 2298.7 |
| 25°   | 2243.3 | 2250.7 | 2254.3 | 2232.1 | 2243.3 | 2232.1 | 2258.1 | 2261.7 | 2246.9 | 2254.3 |
| 27.5° | 2187.7 | 2176.7 | 2172.9 | 2158.1 | 2165.5 | 2161.9 | 2165.5 | 2165.5 | 2187.7 | 2158.1 |
| 30°   | 2102.5 | 2091.5 | 2095.1 | 2084.1 | 2087.7 | 2084.1 | 2087.7 | 2087.7 | 2102.5 | 2098.9 |
| 32.5° | 2021.1 | 2010.1 | 2013.7 | 2002.7 | 2002.7 | 2006.3 | 1998.9 | 1998.9 | 2010.1 | 2002.7 |
| 35°   | 1943.4 | 1917.5 | 1921.2 | 1917.5 | 1921.2 | 1906.3 | 1906.3 | 1902.7 | 1910.1 | 1891.5 |
| 37.5° | 1832.3 | 1821.3 | 1817.5 | 1813.9 | 1817.5 | 1810.1 | 1817.5 | 1806.5 | 1817.5 | 1802.7 |
| 40°   | 1732.4 | 1725.0 | 1728.7 | 1706.5 | 1706.5 | 1710.2 | 1702.8 | 1699.1 | 1702.8 | 1717.6 |
| 42.5° | 1632.5 | 1617.7 | 1610.3 | 1602.9 | 1606.5 | 1595.5 | 1591.7 | 1584.3 | 1591.7 | 1576.9 |
| 45°   | 1514.0 | 1514.0 | 1510.3 | 1491.8 | 1495.5 | 1495.5 | 1480.7 | 1465.9 | 1469.6 | 1469.6 |
| 47.5° | 1406.7 | 1399.3 | 1395.6 | 1377.1 | 1373.3 | 1369.7 | 1354.8 | 1343.7 | 1343.7 | 1332.6 |
| 50°   | 1288.2 | 1280.8 | 1269.7 | 1251.2 | 1243.8 | 1221.6 | 1210.5 | 1195.7 | 1180.9 | 1180.9 |
| 52.5° | 1177.2 | 1151.2 | 1136.4 | 1106.8 | 1095.7 | 1084.6 | 1055.0 | 1043.9 | 1032.8 | 1021.7 |
| 55°   | 1043.9 | 1021.7 | 992.1  | 958.8  | 944.0  | 925.4  | 895.8  | 873.6  | 858.8  | 862.6  |
| 57.5° | 914.4  | 877.4  | 847.8  | 803.3  | 784.8  | 773.6  | 744.0  | 714.4  | 699.6  | 699.6  |
| 60°   | 755.2  | 725.6  | 688.6  | 647.8  | 633.0  | 614.6  | 577.4  | 559.0  | 547.8  | 536.8  |
| 62.5° | 603.4  | 581.2  | 547.8  | 496.0  | 485.0  | 466.4  | 440.6  | 418.4  | 407.2  | 407.2  |
| 65°   | 451.6  | 429.4  | 399.8  | 362.8  | 348.0  | 333.2  | 311.0  | 288.8  | 277.6  | 274.0  |
| 67.5° | 318.4  | 292.4  | 266.6  | 237.0  | 225.8  | 218.4  | 196.2  | 181.4  | 174.0  | 170.2  |
| 70°   | 192.4  | 177.6  | 159.2  | 137.0  | 125.8  | 118.4  | 103.6  | 92.6   | 88.8   | 85.2   |
| 72.5° | 100.0  | 88.8   | 74.0   | 59.2   | 51.8   | 44.4   | 37.0   | 29.6   | 26.0   | 26.0   |
| 75°   | 37.0   | 29.6   | 18.6   | 11.2   | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    |
| 77.5° | 7.4    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 80°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 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)