

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 EX4C559035 4LBSQLI**

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209151)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C55D010 EX4C559035 4LBSQLI  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

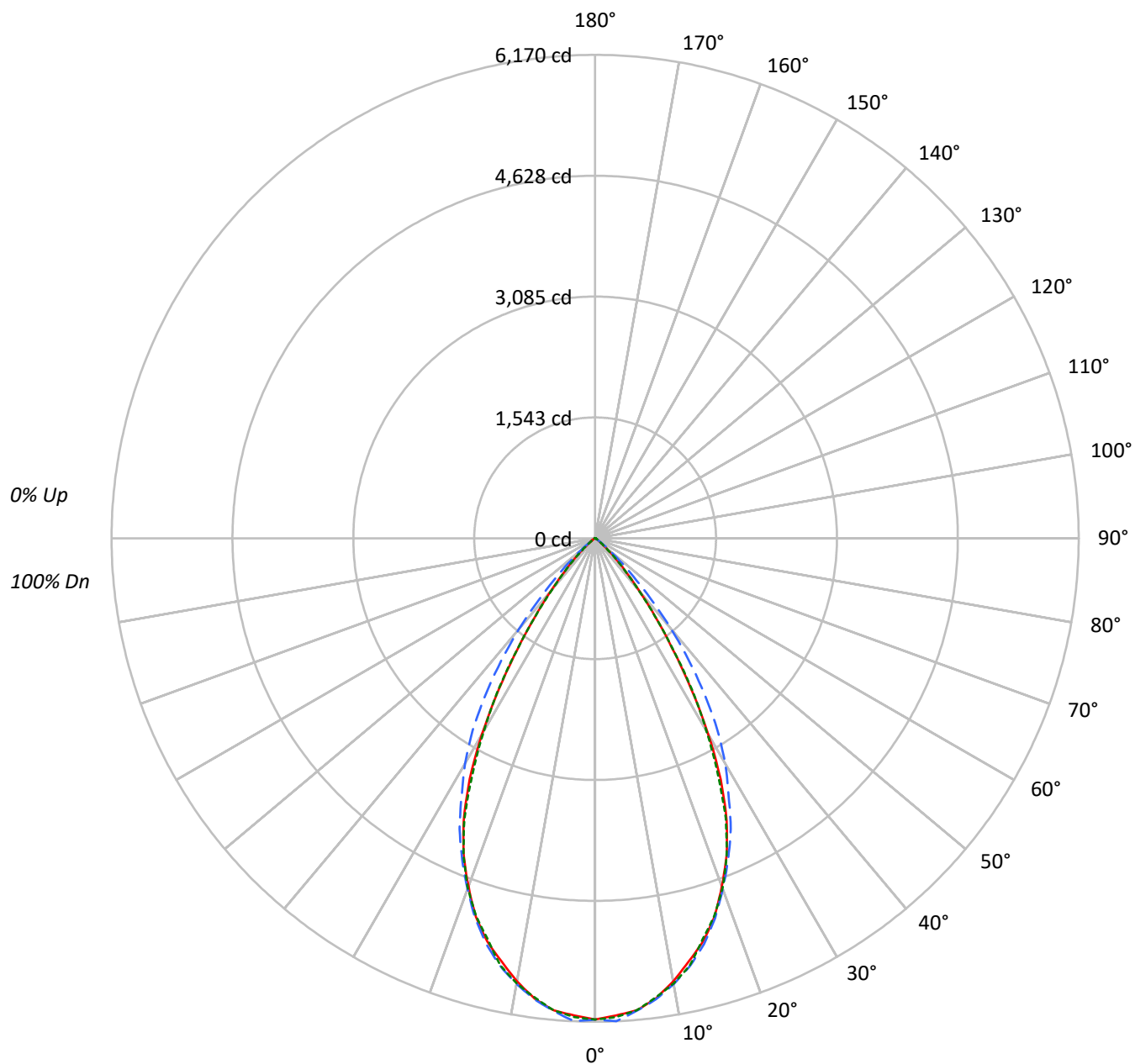
Lumens per Lamp: N/A  
Luminaire Lumens: 5671.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559035 4LBSQLI

### 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   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |
| 2   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 87  |    |    |
| 3   | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |    |    |
| 4   | 97  | 89  | 84  | 79  | 95  | 88  | 83  | 79  | 86  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |    |    |
| 5   | 92  | 83  | 77  | 73  | 90  | 82  | 77  | 73  | 81  | 76  | 72  | 79  | 75  | 71  | 77  | 74  | 71  | 69  |    |    |
| 6   | 87  | 78  | 72  | 68  | 86  | 77  | 71  | 67  | 76  | 71  | 67  | 74  | 70  | 66  | 73  | 69  | 66  | 64  |    |    |
| 7   | 83  | 73  | 67  | 63  | 81  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 60  |    |    |
| 8   | 79  | 69  | 63  | 59  | 77  | 68  | 62  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 56  |    |    |
| 9   | 75  | 65  | 59  | 55  | 74  | 64  | 59  | 55  | 63  | 58  | 55  | 63  | 58  | 54  | 62  | 57  | 54  | 53  |    |    |
| 10  | 71  | 61  | 55  | 51  | 70  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 58  | 54  | 51  | 50  |    |    |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 592693 | 592693 | 592693 |
| 5°  | 585881 | 586637 | 585881 |
| 10° | 562449 | 565898 | 565134 |
| 15° | 531739 | 535634 | 529002 |
| 20° | 485272 | 488876 | 487675 |
| 25° | 422544 | 435841 | 419627 |
| 30° | 321312 | 369577 | 316543 |
| 35° | 202259 | 287304 | 204097 |
| 40° | 109117 | 189742 | 107152 |
| 45° | 51649  | 93732  | 51116  |
| 50° | 19334  | 35141  | 19334  |
| 55° | 9185   | 11170  | 8546   |
| 60° | 6021   | 5288   | 6021   |
| 65° | 3562   | 3562   | 3562   |
| 70° | 2200   | 3329   | 2200   |
| 75° | 1491   | 1491   | 1491   |
| 80° | 2223   | 2223   | 2223   |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 569.5  | 10.0      |
| 10°-20°   | 1492.6 | 26.3      |
| 20°-30°   | 1823.3 | 32.2      |
| 30°-40°   | 1275.3 | 22.5      |
| 40°-50°   | 417.9  | 7.4       |
| 50°-60°   | 66.4   | 1.2       |
| 60°-70°   | 18.1   | 0.3       |
| 70°-80°   | 6.1    | 0.1       |
| 80°-90°   | 1.7    | 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°    | 3885.4 | 68.5      |
| 0°-40°    | 5160.7 | 91.0      |
| 0°-60°    | 5645.1 | 99.5      |
| 0°-90°    | 5671.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5671.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6143 | 6143  | 6143 | 6143  | 6143 |      |
| 5°  | 6049 | 6051  | 6057 | 6020  | 6049 | 567  |
| 15° | 5323 | 5345  | 5362 | 5327  | 5296 | 1485 |
| 25° | 3969 | 4029  | 4094 | 4020  | 3942 | 1783 |
| 35° | 1717 | 2027  | 2439 | 1996  | 1733 | 1096 |
| 45° | 378  | 466   | 687  | 461   | 375  | 318  |
| 55° | 55   | 59    | 66   | 59    | 51   | 54   |
| 65° | 16   | 20    | 16   | 20    | 16   | 17   |
| 75° | 4    | 4     | 4    | 4     | 4    | 6    |
| 85° | 0    | 0     | 0    | 0     | 0    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559035 4LBSQLI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 |
| 2.5°  | 6095.8 | 6138.8 | 6127.0 | 6154.4 | 6154.4 | 6123.1 | 6130.9 | 6142.6 | 6158.2 | 6170.0 | 6076.2 |
| 5°    | 6048.9 | 6088.0 | 6052.8 | 6091.8 | 6068.4 | 6033.3 | 6091.8 | 6060.6 | 6080.1 | 6056.7 | 6072.3 |
| 7.5°  | 5924.1 | 5986.5 | 5916.3 | 5963.1 | 5947.5 | 5927.9 | 5951.3 | 5943.5 | 5955.3 | 5935.7 | 5892.9 |
| 10°   | 5740.6 | 5791.4 | 5744.6 | 5810.9 | 5779.6 | 5760.2 | 5779.6 | 5799.2 | 5795.2 | 5775.8 | 5799.2 |
| 12.5° | 5529.9 | 5588.4 | 5565.0 | 5604.0 | 5568.9 | 5568.9 | 5615.8 | 5604.0 | 5608.0 | 5592.4 | 5619.6 |
| 15°   | 5323.1 | 5366.1 | 5330.9 | 5381.7 | 5366.1 | 5323.1 | 5342.5 | 5342.5 | 5373.9 | 5362.1 | 5330.9 |
| 17.5° | 5065.5 | 5100.6 | 5061.6 | 5073.3 | 5057.7 | 5049.9 | 5131.8 | 5077.2 | 5108.4 | 5085.0 | 5089.0 |
| 20°   | 4726.0 | 4741.6 | 4729.8 | 4761.1 | 4741.6 | 4765.0 | 4757.2 | 4749.4 | 4749.4 | 4761.1 | 4733.8 |
| 22.5° | 4382.5 | 4382.5 | 4394.3 | 4402.1 | 4417.7 | 4394.3 | 4441.1 | 4402.1 | 4405.9 | 4433.3 | 4425.5 |
| 25°   | 3968.9 | 3957.1 | 3984.5 | 4023.5 | 4039.2 | 4019.6 | 4082.0 | 4050.8 | 4074.2 | 4093.8 | 4050.8 |
| 27.5° | 3465.5 | 3465.5 | 3492.8 | 3559.2 | 3570.8 | 3594.2 | 3680.0 | 3680.0 | 3711.3 | 3684.0 | 3715.2 |
| 30°   | 2883.9 | 2926.9 | 2962.0 | 3047.8 | 3075.2 | 3126.0 | 3215.7 | 3258.6 | 3328.9 | 3317.1 | 3301.5 |
| 32.5° | 2286.9 | 2345.5 | 2349.3 | 2439.1 | 2513.2 | 2599.0 | 2720.1 | 2821.5 | 2872.3 | 2907.3 | 2868.3 |
| 35°   | 1717.1 | 1752.3 | 1783.5 | 1845.9 | 1970.8 | 2084.0 | 2193.2 | 2325.9 | 2415.7 | 2439.1 | 2403.9 |
| 37.5° | 1256.7 | 1264.5 | 1295.7 | 1354.1 | 1447.8 | 1557.2 | 1689.8 | 1834.1 | 1927.9 | 1963.0 | 1923.9 |
| 40°   | 866.3  | 874.1  | 889.8  | 940.6  | 1018.6 | 1096.6 | 1202.0 | 1350.3 | 1436.1 | 1506.4 | 1455.6 |
| 42.5° | 581.4  | 589.2  | 604.8  | 643.9  | 686.9  | 760.9  | 842.9  | 936.6  | 1018.6 | 1049.8 | 1022.4 |
| 45°   | 378.5  | 378.5  | 386.3  | 413.7  | 437.1  | 495.6  | 554.2  | 612.7  | 667.3  | 686.9  | 667.3  |
| 47.5° | 222.5  | 226.3  | 234.1  | 253.7  | 280.9  | 304.3  | 347.3  | 386.3  | 402.0  | 417.6  | 409.8  |
| 50°   | 128.8  | 128.8  | 140.5  | 152.2  | 171.7  | 187.3  | 202.9  | 218.5  | 226.3  | 234.1  | 226.3  |
| 52.5° | 70.2   | 74.2   | 78.0   | 82.0   | 89.8   | 105.4  | 117.1  | 117.1  | 121.0  | 124.9  | 121.0  |
| 55°   | 54.6   | 54.6   | 54.6   | 54.6   | 58.6   | 58.6   | 58.6   | 62.4   | 62.4   | 66.4   | 62.4   |
| 57.5° | 39.0   | 39.0   | 39.0   | 43.0   | 43.0   | 43.0   | 39.0   | 39.0   | 39.0   | 39.0   | 39.0   |
| 60°   | 31.2   | 31.2   | 31.2   | 31.2   | 31.2   | 31.2   | 31.2   | 27.4   | 27.4   | 27.4   | 27.4   |
| 62.5° | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   |
| 65°   | 15.6   | 15.6   | 19.6   | 19.6   | 19.6   | 19.6   | 19.6   | 15.6   | 15.6   | 15.6   | 15.6   |
| 67.5° | 11.8   | 11.8   | 11.8   | 11.8   | 15.6   | 15.6   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   |
| 70°   | 7.8    | 7.8    | 7.8    | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   |
| 72.5° | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    |
| 75°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 77.5° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 80°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.0    | 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° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 | 6142.6 |
| 2.5°  | 6142.6 | 6076.2 | 6084.0 | 6119.2 | 6099.6 | 6119.2 | 6115.3 | 6115.3 |
| 5°    | 6076.2 | 6056.7 | 6025.5 | 6013.7 | 6037.2 | 6088.0 | 6080.1 | 6048.9 |
| 7.5°  | 5951.3 | 5900.7 | 5935.7 | 5951.3 | 5931.9 | 5963.1 | 5978.7 | 5912.3 |
| 10°   | 5803.0 | 5783.6 | 5775.8 | 5783.6 | 5775.8 | 5807.0 | 5768.0 | 5768.0 |
| 12.5° | 5592.4 | 5561.1 | 5561.1 | 5608.0 | 5580.6 | 5557.2 | 5588.4 | 5584.5 |
| 15°   | 5381.7 | 5319.1 | 5319.1 | 5334.7 | 5346.5 | 5330.9 | 5334.7 | 5295.7 |
| 17.5° | 5069.4 | 5049.9 | 5022.5 | 5065.5 | 5077.2 | 5061.6 | 5073.3 | 5053.8 |
| 20°   | 4776.7 | 4776.7 | 4726.0 | 4745.4 | 4761.1 | 4772.8 | 4780.6 | 4749.4 |
| 22.5° | 4402.1 | 4409.9 | 4374.7 | 4413.7 | 4425.5 | 4386.5 | 4394.3 | 4386.5 |
| 25°   | 4058.6 | 4054.8 | 4027.4 | 4011.8 | 4019.6 | 4004.0 | 4000.1 | 3941.5 |
| 27.5° | 3680.0 | 3641.0 | 3582.6 | 3598.2 | 3531.8 | 3477.1 | 3477.1 | 3387.3 |
| 30°   | 3270.3 | 3204.0 | 3126.0 | 3047.8 | 2989.4 | 2926.9 | 2891.7 | 2841.1 |
| 32.5° | 2790.3 | 2700.6 | 2603.0 | 2497.6 | 2431.3 | 2337.7 | 2286.9 | 2314.3 |
| 35°   | 2314.3 | 2181.5 | 2048.8 | 1943.5 | 1841.9 | 1787.3 | 1724.9 | 1732.7 |
| 37.5° | 1853.7 | 1666.4 | 1549.4 | 1436.1 | 1350.3 | 1280.1 | 1252.7 | 1244.9 |
| 40°   | 1354.1 | 1205.9 | 1088.8 | 1006.8 | 948.4  | 893.7  | 862.5  | 850.7  |
| 42.5° | 936.6  | 831.3  | 737.5  | 671.3  | 632.2  | 597.0  | 581.4  | 577.6  |
| 45°   | 608.8  | 546.4  | 484.0  | 437.1  | 405.9  | 382.5  | 378.5  | 374.6  |
| 47.5° | 382.5  | 351.2  | 312.1  | 277.1  | 249.7  | 234.1  | 222.5  | 222.5  |
| 50°   | 218.5  | 206.9  | 187.3  | 167.9  | 152.2  | 144.4  | 132.7  | 128.8  |
| 52.5° | 117.1  | 117.1  | 109.2  | 93.6   | 82.0   | 74.2   | 74.2   | 70.2   |
| 55°   | 62.4   | 62.4   | 58.6   | 58.6   | 54.6   | 54.6   | 54.6   | 50.8   |
| 57.5° | 39.0   | 39.0   | 43.0   | 43.0   | 39.0   | 39.0   | 39.0   | 39.0   |
| 60°   | 27.4   | 31.2   | 31.2   | 31.2   | 31.2   | 31.2   | 31.2   | 31.2   |
| 62.5° | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   |
| 65°   | 15.6   | 19.6   | 19.6   | 19.6   | 19.6   | 15.6   | 15.6   | 15.6   |
| 67.5° | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   |
| 70°   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 7.8    | 7.8    | 7.8    |
| 72.5° | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    |
| 75°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 77.5° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 80°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 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° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 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)