

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1313055

Luminaire Tested: LDSQA3D24R509050D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R509050D010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

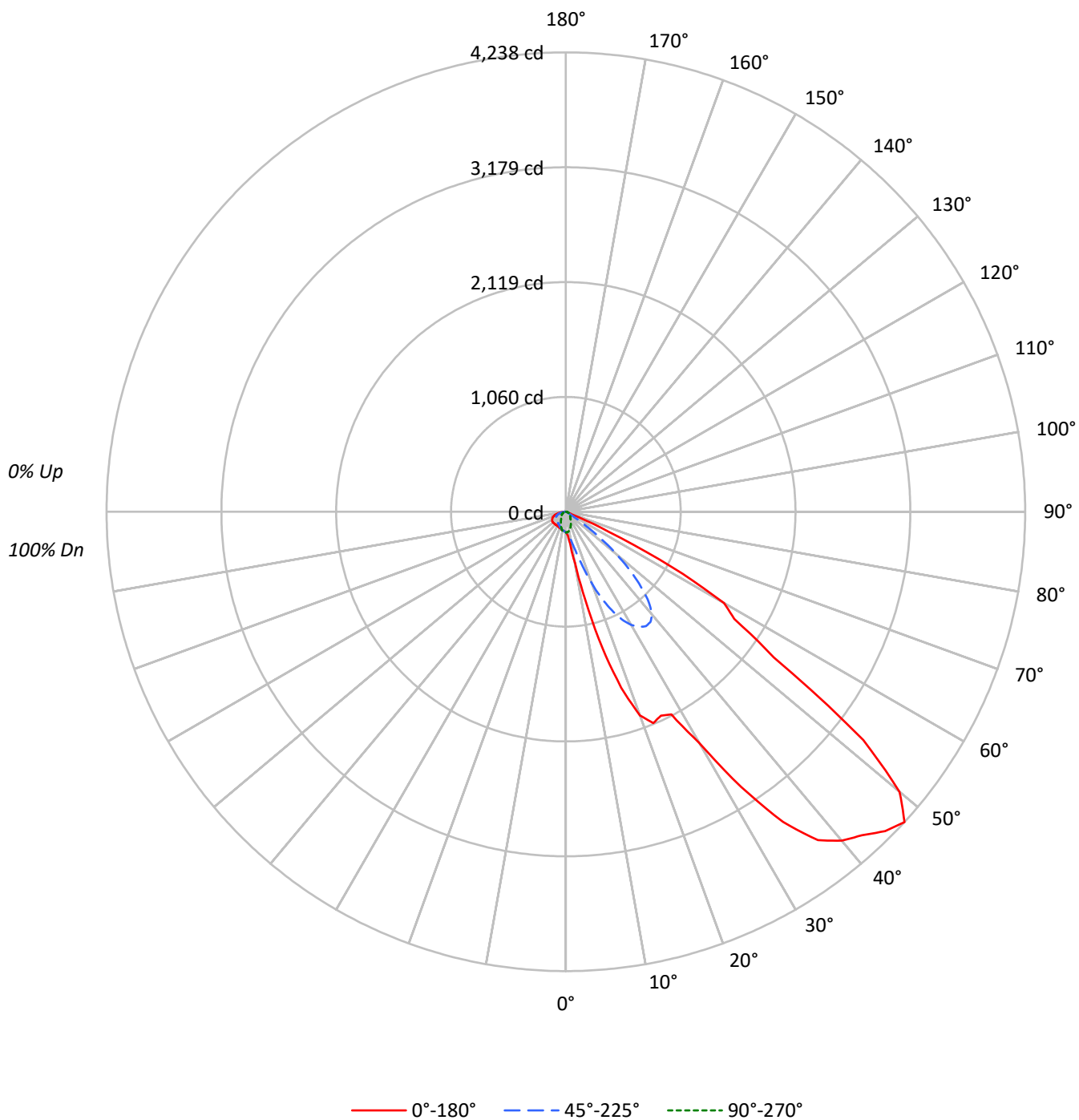
Lumens per Lamp: N/A  
Luminaire Lumens: 2390.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
Input Voltage (V): NR  
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: 24 FT

TEST NUMBER: P1313055

CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P1313055

CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MB

### 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  | 0   |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |
| 1   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |  |  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |  |  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |  |  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |  |  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 46  | 58  | 51  | 46  | 56  | 50  | 45  | 43  |  |  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 37  |  |  |
| 7   | 63  | 50  | 41  | 34  | 62  | 49  | 40  | 34  | 47  | 39  | 34  | 46  | 39  | 34  | 44  | 38  | 33  | 31  |  |  |
| 8   | 58  | 44  | 36  | 30  | 57  | 44  | 35  | 29  | 42  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |  |  |
| 9   | 54  | 40  | 31  | 26  | 53  | 39  | 31  | 26  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 23  |  |  |
| 10  | 50  | 36  | 28  | 23  | 49  | 36  | 28  | 22  | 35  | 27  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |  |  |

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

|     | 0°      | 45°    | 90°   | 135°  | 180°  |
|-----|---------|--------|-------|-------|-------|
| 0°  | 32705   | 32705  | 32705 | 32705 | 32705 |
| 5°  | 38898   | 36409  | 32484 | 31049 | 30686 |
| 10° | 83750   | 45119  | 31041 | 29957 | 30324 |
| 15° | 231877  | 73976  | 27975 | 28706 | 29811 |
| 20° | 366606  | 129777 | 24211 | 27620 | 29141 |
| 25° | 394248  | 190654 | 20789 | 26680 | 29416 |
| 30° | 489349  | 239335 | 18057 | 26270 | 30387 |
| 35° | 734365  | 270817 | 15621 | 26470 | 32125 |
| 40° | 890627  | 278463 | 13916 | 27383 | 33880 |
| 45° | 1014621 | 238835 | 13566 | 29154 | 37216 |
| 50° | 1076895 | 164831 | 13825 | 31535 | 41476 |
| 55° | 703512  | 66328  | 13632 | 34080 | 45880 |
| 60° | 580218  | 11367  | 13502 | 36959 | 50496 |
| 65° | 174986  | 5909   | 12633 | 39529 | 55503 |
| 70° | 7301    | 6244   | 12488 | 40535 | 60274 |
| 75° | 6854    | 6854   | 12377 | 41189 | 65943 |
| 80° | 6149    | 6149   | 12298 | 40961 | 67541 |
| 85° | 4150    | 8102   | 16401 | 40706 | 65209 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $47.5^\circ$

Luminance: 1080384 cd/sqm

TEST NUMBER: P1313055

CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.8   | 0.8       |
| 10°-20°   | 113.2  | 4.7       |
| 20°-30°   | 290.9  | 12.2      |
| 30°-40°   | 522.6  | 21.9      |
| 40°-50°   | 698.0  | 29.2      |
| 50°-60°   | 531.7  | 22.2      |
| 60°-70°   | 161.4  | 6.8       |
| 70°-80°   | 38.6   | 1.6       |
| 80°-90°   | 13.9   | 0.6       |
| 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°    | 423.9  | 17.7      |
| 0°-40°    | 946.5  | 39.6      |
| 0°-60°    | 2176.2 | 91.1      |
| 0°-90°    | 2390.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2390.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 190  | 190  | 190 | 190  | 190  |      |
| 5°  | 225  | 211  | 188 | 180  | 178  | 29   |
| 15° | 1300 | 415  | 157 | 161  | 167  | 383  |
| 25° | 2075 | 1003 | 109 | 140  | 155  | 990  |
| 35° | 3493 | 1288 | 74  | 126  | 153  | 2145 |
| 45° | 4166 | 981  | 56  | 120  | 153  | 3185 |
| 55° | 2343 | 221  | 45  | 114  | 153  | 2331 |
| 65° | 429  | 14   | 31  | 97   | 136  | 594  |
| 75° | 10   | 10   | 19  | 62   | 99   | 11   |
| 85° | 2    | 4    | 8   | 21   | 33   | 3    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1313055

CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 189.9  | 189.9  | 189.9  | 189.9  | 189.9  | 189.9  | 189.9  | 189.9  | 189.9  | 189.9 | 189.9 |
| 2.5°  | 202.3  | 202.3  | 202.3  | 202.3  | 202.3  | 202.3  | 200.2  | 200.2  | 200.2  | 196.1 | 192.0 |
| 5°    | 225.0  | 227.1  | 225.0  | 225.0  | 220.9  | 220.9  | 216.8  | 216.8  | 210.6  | 198.2 | 187.9 |
| 7.5°  | 295.2  | 293.1  | 291.1  | 282.8  | 276.6  | 262.2  | 256.0  | 245.7  | 227.1  | 198.2 | 183.7 |
| 10°   | 478.9  | 466.5  | 458.3  | 439.7  | 400.5  | 375.7  | 342.7  | 309.7  | 258.0  | 198.2 | 177.5 |
| 12.5° | 831.9  | 829.9  | 805.1  | 743.2  | 687.4  | 611.0  | 530.5  | 450.0  | 317.9  | 194.0 | 169.3 |
| 15°   | 1300.5 | 1282.0 | 1246.9 | 1174.6 | 1075.5 | 955.8  | 811.3  | 668.8  | 414.9  | 187.9 | 156.9 |
| 17.5° | 1701.0 | 1678.3 | 1651.5 | 1579.2 | 1465.7 | 1315.0 | 1141.6 | 945.5  | 547.0  | 179.6 | 144.5 |
| 20°   | 2000.3 | 1985.9 | 1963.2 | 1905.4 | 1798.0 | 1661.8 | 1467.7 | 1230.3 | 708.1  | 169.3 | 132.1 |
| 22.5° | 2109.8 | 2107.7 | 2111.8 | 2091.2 | 2037.5 | 1930.2 | 1744.4 | 1496.6 | 867.0  | 156.9 | 119.7 |
| 25°   | 2074.7 | 2072.6 | 2099.4 | 2126.3 | 2138.7 | 2095.3 | 1952.9 | 1711.3 | 1003.3 | 146.6 | 109.4 |
| 27.5° | 2107.7 | 2101.5 | 2089.1 | 2093.2 | 2128.3 | 2153.1 | 2087.0 | 1876.5 | 1120.9 | 132.1 | 99.1  |
| 30°   | 2460.7 | 2425.6 | 2369.9 | 2274.9 | 2204.7 | 2198.5 | 2169.6 | 2006.5 | 1203.5 | 117.7 | 90.8  |
| 32.5° | 3011.9 | 2968.5 | 2867.4 | 2691.9 | 2524.7 | 2396.7 | 2305.9 | 2115.9 | 1261.3 | 103.2 | 80.5  |
| 35°   | 3492.9 | 3461.9 | 3344.2 | 3170.8 | 2931.4 | 2691.9 | 2526.7 | 2277.0 | 1288.1 | 90.8  | 74.3  |
| 37.5° | 3819.0 | 3806.6 | 3691.0 | 3505.2 | 3261.7 | 2978.8 | 2760.0 | 2442.1 | 1282.0 | 76.4  | 68.1  |
| 40°   | 3961.5 | 3924.3 | 3827.3 | 3670.4 | 3424.7 | 3170.8 | 2939.6 | 2547.4 | 1238.6 | 61.9  | 61.9  |
| 42.5° | 4046.1 | 4004.8 | 3899.5 | 3750.9 | 3509.4 | 3238.9 | 2960.3 | 2502.0 | 1135.4 | 49.5  | 59.9  |
| 45°   | 4165.8 | 4122.5 | 3984.2 | 3825.2 | 3581.6 | 3267.8 | 2879.7 | 2341.0 | 980.6  | 37.2  | 55.7  |
| 47.5° | 4238.1 | 4209.2 | 4106.0 | 3947.0 | 3651.8 | 3226.6 | 2694.0 | 2190.3 | 809.2  | 28.9  | 53.7  |
| 50°   | 4019.3 | 3990.4 | 3914.0 | 3804.6 | 3606.4 | 3088.2 | 2530.9 | 1946.7 | 615.2  | 22.7  | 51.6  |
| 52.5° | 3459.8 | 3484.6 | 3499.1 | 3530.0 | 3385.5 | 2778.6 | 2287.3 | 1752.6 | 414.9  | 18.6  | 47.5  |
| 55°   | 2343.0 | 2380.2 | 2421.5 | 2545.3 | 2714.6 | 2473.1 | 2031.3 | 1515.2 | 220.9  | 18.6  | 45.4  |
| 57.5° | 1841.4 | 1829.0 | 1816.6 | 1808.4 | 1940.5 | 2039.6 | 1785.7 | 1211.8 | 95.0   | 18.6  | 41.3  |
| 60°   | 1684.5 | 1647.3 | 1622.6 | 1628.8 | 1694.8 | 1655.6 | 1414.1 | 790.6  | 33.0   | 18.6  | 39.2  |
| 62.5° | 1104.4 | 1133.3 | 1189.1 | 1284.0 | 1238.6 | 1063.1 | 821.6  | 313.8  | 16.5   | 18.6  | 35.1  |
| 65°   | 429.4  | 414.9  | 429.4  | 456.2  | 394.3  | 293.1  | 183.7  | 55.7   | 14.5   | 16.5  | 31.0  |
| 67.5° | 57.8   | 51.6   | 39.2   | 24.8   | 22.7   | 20.6   | 16.5   | 14.5   | 14.5   | 16.5  | 28.9  |
| 70°   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 12.4   | 12.4   | 14.5  | 24.8  |
| 72.5° | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 12.4   | 14.5  | 20.6  |
| 75°   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 10.3   | 12.4  | 18.6  |
| 77.5° | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 10.3  | 14.5  |
| 80°   | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 8.3   | 12.4  |
| 82.5° | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 6.2    | 6.2    | 8.3   | 10.3  |
| 85°   | 2.1    | 4.1    | 2.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 6.2   | 8.3   |
| 87.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 4.1    | 6.2   | 6.2   |
| 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: P1313055

CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 189.9  | 189.9 | 189.9  | 189.9 |
| 2.5°  | 187.9  | 183.7 | 183.7  | 183.7 |
| 5°    | 183.7  | 179.6 | 179.6  | 177.5 |
| 7.5°  | 177.5  | 175.5 | 175.5  | 175.5 |
| 10°   | 173.4  | 171.3 | 173.4  | 173.4 |
| 12.5° | 165.1  | 167.2 | 169.3  | 169.3 |
| 15°   | 156.9  | 161.0 | 165.1  | 167.2 |
| 17.5° | 148.6  | 156.9 | 161.0  | 163.1 |
| 20°   | 140.4  | 150.7 | 156.9  | 159.0 |
| 22.5° | 134.2  | 144.5 | 152.8  | 156.9 |
| 25°   | 125.9  | 140.4 | 150.7  | 154.8 |
| 27.5° | 117.7  | 134.2 | 146.6  | 152.8 |
| 30°   | 111.5  | 132.1 | 146.6  | 152.8 |
| 32.5° | 105.3  | 128.0 | 144.5  | 150.7 |
| 35°   | 101.2  | 125.9 | 144.5  | 152.8 |
| 37.5° | 97.0   | 123.9 | 144.5  | 150.7 |
| 40°   | 95.0   | 121.8 | 144.5  | 150.7 |
| 42.5° | 92.9   | 121.8 | 144.5  | 152.8 |
| 45°   | 88.8   | 119.7 | 144.5  | 152.8 |
| 47.5° | 86.7   | 119.7 | 144.5  | 152.8 |
| 50°   | 84.6   | 117.7 | 144.5  | 154.8 |
| 52.5° | 82.6   | 115.6 | 144.5  | 154.8 |
| 55°   | 78.4   | 113.5 | 142.4  | 152.8 |
| 57.5° | 76.4   | 111.5 | 140.4  | 148.6 |
| 60°   | 72.3   | 107.3 | 136.2  | 146.6 |
| 62.5° | 68.1   | 103.2 | 132.1  | 140.4 |
| 65°   | 61.9   | 97.0  | 125.9  | 136.2 |
| 67.5° | 55.7   | 88.8  | 119.7  | 130.1 |
| 70°   | 49.5   | 80.5  | 111.5  | 119.7 |
| 72.5° | 43.4   | 72.3  | 103.2  | 109.4 |
| 75°   | 37.2   | 61.9  | 90.8   | 99.1  |
| 77.5° | 31.0   | 53.7  | 76.4   | 82.6  |
| 80°   | 22.7   | 41.3  | 61.9   | 68.1  |
| 82.5° | 18.6   | 31.0  | 45.4   | 49.5  |
| 85°   | 12.4   | 20.6  | 28.9   | 33.0  |
| 87.5° | 6.2    | 10.3  | 14.5   | 16.5  |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)