

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: P1308625

Luminaire Tested: LDSQA3D24R509027D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308625  
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: LDSQA3D24R509027D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

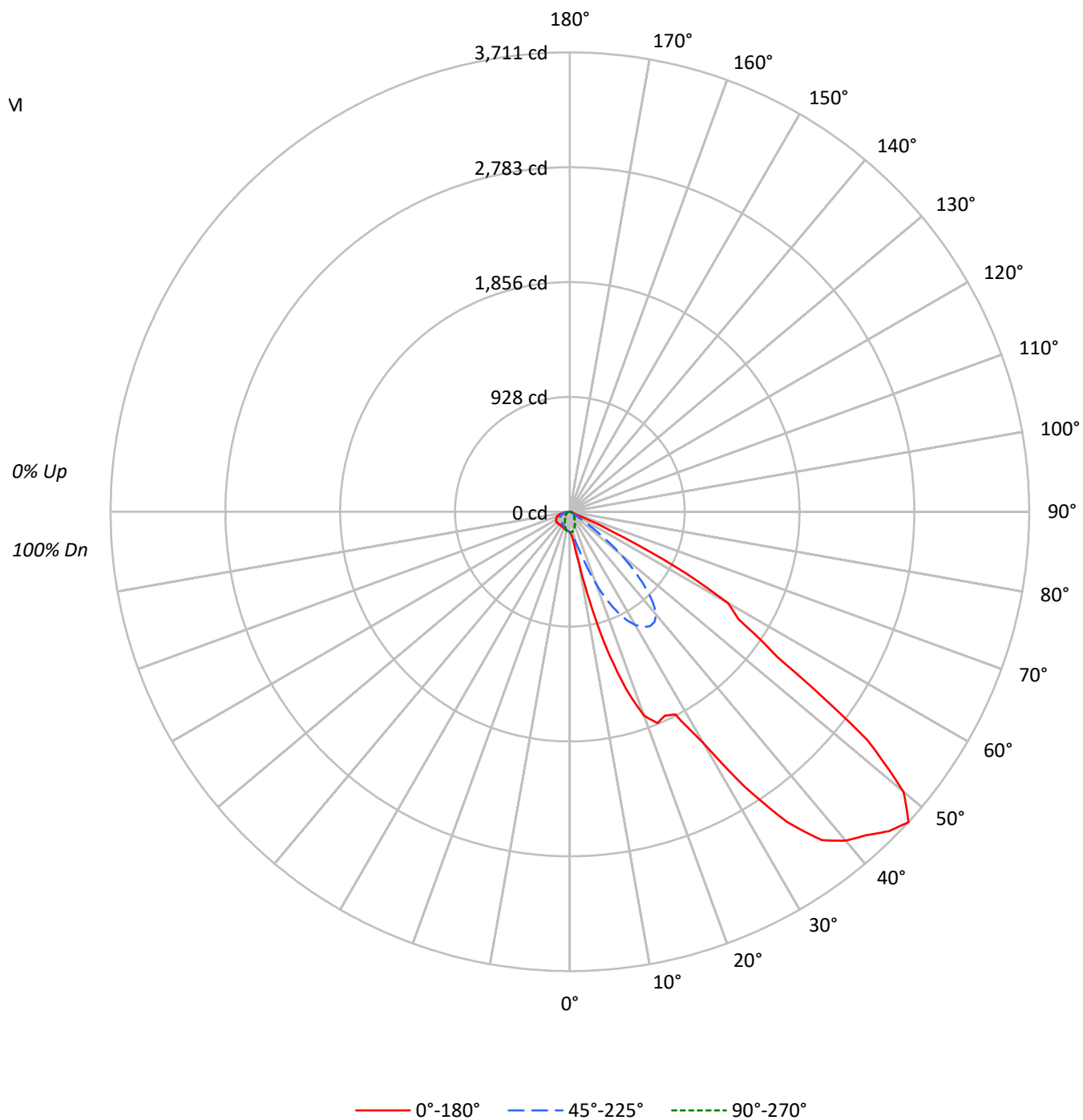
Lumens per Lamp: N/A  
Luminaire Lumens: 2093.0 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot



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### COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|---|
| RF  | 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  | 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°  | 28641  | 28641  | 28641 | 28641 | 28641 |
| 5°  | 34075  | 31879  | 28439 | 27194 | 26883 |
| 10° | 73344  | 39523  | 27194 | 26232 | 26564 |
| 15° | 203064 | 64793  | 24498 | 25140 | 26103 |
| 20° | 321062 | 113649 | 21205 | 24192 | 25512 |
| 25° | 345240 | 166957 | 18205 | 23354 | 25768 |
| 30° | 428535 | 209604 | 15810 | 23009 | 26608 |
| 35° | 643097 | 237177 | 13687 | 23190 | 28131 |
| 40° | 779948 | 243863 | 12185 | 23988 | 29676 |
| 45° | 888554 | 209145 | 11886 | 25549 | 32588 |
| 50° | 943063 | 144334 | 12110 | 27597 | 36331 |
| 55° | 616106 | 58070  | 11950 | 29846 | 40175 |
| 60° | 508126 | 9954   | 11814 | 32378 | 44227 |
| 65° | 153225 | 5175   | 11044 | 34639 | 48616 |
| 70° | 6395   | 5438   | 10927 | 35500 | 52822 |
| 75° | 5989   | 5989   | 10846 | 36066 | 57758 |
| 80° | 5356   | 5356   | 10711 | 35903 | 59210 |
| 85° | 3557   | 7114   | 14227 | 35766 | 57107 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $47.5^\circ$

Luminance: 946117 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.3   | 0.8       |
| 10°-20°   | 99.1   | 4.7       |
| 20°-30°   | 254.8  | 12.2      |
| 30°-40°   | 457.6  | 21.9      |
| 40°-50°   | 611.3  | 29.2      |
| 50°-60°   | 465.6  | 22.2      |
| 60°-70°   | 141.3  | 6.8       |
| 70°-80°   | 33.8   | 1.6       |
| 80°-90°   | 12.2   | 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°    | 371.2  | 17.7      |
| 0°-40°    | 828.8  | 39.6      |
| 0°-60°    | 1905.7 | 91.1      |
| 0°-90°    | 2093.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2093.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 166  | 166  | 166 | 166  | 166  |      |
| 5°  | 197  | 184  | 164 | 157  | 156  | 25   |
| 15° | 1139 | 363  | 137 | 141  | 146  | 335  |
| 25° | 1817 | 879  | 96  | 123  | 136  | 867  |
| 35° | 3059 | 1128 | 65  | 110  | 134  | 1878 |
| 45° | 3648 | 859  | 49  | 105  | 134  | 2789 |
| 55° | 2052 | 193  | 40  | 99   | 134  | 2041 |
| 65° | 376  | 13   | 27  | 85   | 119  | 520  |
| 75° | 9    | 9    | 16  | 54   | 87   | 10   |
| 85° | 2    | 4    | 7   | 18   | 29   | 3    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1308625

CATALOG NUMBER: LDSQA3D24R509027D010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 166.3  | 166.3  | 166.3  | 166.3  | 166.3  | 166.3  | 166.3  | 166.3  | 166.3  | 166.3 | 166.3 |
| 2.5°  | 177.2  | 177.2  | 177.2  | 177.2  | 177.2  | 177.2  | 175.4  | 175.4  | 175.4  | 171.7 | 168.1 |
| 5°    | 197.1  | 198.9  | 197.1  | 197.1  | 193.4  | 193.4  | 189.8  | 189.8  | 184.4  | 173.5 | 164.5 |
| 7.5°  | 258.5  | 256.7  | 254.9  | 247.7  | 242.2  | 229.6  | 224.2  | 215.1  | 198.9  | 173.5 | 160.9 |
| 10°   | 419.4  | 408.6  | 401.3  | 385.1  | 350.7  | 329.0  | 300.1  | 271.2  | 226.0  | 173.5 | 155.5 |
| 12.5° | 728.5  | 726.7  | 705.0  | 650.8  | 602.0  | 535.1  | 464.6  | 394.1  | 278.4  | 169.9 | 148.2 |
| 15°   | 1138.9 | 1122.6 | 1091.9 | 1028.6 | 941.9  | 837.0  | 710.5  | 585.7  | 363.4  | 164.5 | 137.4 |
| 17.5° | 1489.6 | 1469.7 | 1446.2 | 1383.0 | 1283.5 | 1151.6 | 999.7  | 828.0  | 479.1  | 157.3 | 126.5 |
| 20°   | 1751.8 | 1739.1 | 1719.2 | 1668.6 | 1574.6 | 1455.3 | 1285.4 | 1077.5 | 620.1  | 148.2 | 115.7 |
| 22.5° | 1847.6 | 1845.8 | 1849.4 | 1831.3 | 1784.3 | 1690.3 | 1527.6 | 1310.7 | 759.3  | 137.4 | 104.9 |
| 25°   | 1816.8 | 1815.0 | 1838.5 | 1862.0 | 1872.9 | 1834.9 | 1710.2 | 1498.7 | 878.6  | 128.4 | 95.8  |
| 27.5° | 1845.8 | 1840.3 | 1829.5 | 1833.1 | 1863.8 | 1885.5 | 1827.7 | 1643.3 | 981.6  | 115.7 | 86.8  |
| 30°   | 2154.9 | 2124.2 | 2075.4 | 1992.2 | 1930.7 | 1925.3 | 1900.0 | 1757.2 | 1054.0 | 103.0 | 79.5  |
| 32.5° | 2637.6 | 2599.6 | 2511.0 | 2357.4 | 2210.9 | 2098.9 | 2019.3 | 1853.0 | 1104.6 | 90.4  | 70.5  |
| 35°   | 3058.8 | 3031.7 | 2928.6 | 2776.8 | 2567.1 | 2357.4 | 2212.8 | 1994.0 | 1128.1 | 79.5  | 65.1  |
| 37.5° | 3344.4 | 3333.6 | 3232.4 | 3069.7 | 2856.3 | 2608.7 | 2417.0 | 2138.6 | 1122.6 | 66.9  | 59.7  |
| 40°   | 3469.2 | 3436.6 | 3351.7 | 3214.3 | 2999.2 | 2776.8 | 2574.3 | 2230.8 | 1084.7 | 54.2  | 54.2  |
| 42.5° | 3543.3 | 3507.1 | 3414.9 | 3284.8 | 3073.3 | 2836.4 | 2592.4 | 2191.1 | 994.3  | 43.4  | 52.4  |
| 45°   | 3648.2 | 3610.2 | 3489.1 | 3349.9 | 3136.5 | 2861.8 | 2521.9 | 2050.1 | 858.7  | 32.5  | 48.8  |
| 47.5° | 3711.4 | 3686.1 | 3595.7 | 3456.5 | 3198.0 | 2825.6 | 2359.2 | 1918.1 | 708.7  | 25.3  | 47.0  |
| 50°   | 3519.8 | 3494.5 | 3427.6 | 3331.8 | 3158.2 | 2704.5 | 2216.4 | 1704.8 | 538.7  | 19.9  | 45.2  |
| 52.5° | 3029.9 | 3051.6 | 3064.2 | 3091.3 | 2964.8 | 2433.3 | 2003.0 | 1534.8 | 363.4  | 16.3  | 41.6  |
| 55°   | 2051.9 | 2084.4 | 2120.6 | 2229.0 | 2377.3 | 2165.8 | 1778.9 | 1326.9 | 193.4  | 16.3  | 39.8  |
| 57.5° | 1612.6 | 1601.7 | 1590.9 | 1583.6 | 1699.3 | 1786.1 | 1563.8 | 1061.2 | 83.2   | 16.3  | 36.2  |
| 60°   | 1475.2 | 1442.6 | 1420.9 | 1426.4 | 1484.2 | 1449.9 | 1238.3 | 692.4  | 28.9   | 16.3  | 34.3  |
| 62.5° | 967.2  | 992.5  | 1041.3 | 1124.5 | 1084.7 | 931.0  | 719.5  | 274.8  | 14.5   | 16.3  | 30.7  |
| 65°   | 376.0  | 363.4  | 376.0  | 399.5  | 345.3  | 256.7  | 160.9  | 48.8   | 12.7   | 14.5  | 27.1  |
| 67.5° | 50.6   | 45.2   | 34.3   | 21.7   | 19.9   | 18.1   | 14.5   | 12.7   | 12.7   | 14.5  | 25.3  |
| 70°   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 10.8   | 10.8   | 12.7  | 21.7  |
| 72.5° | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 12.7  | 18.1  |
| 75°   | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    | 10.8  | 16.3  |
| 77.5° | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 9.0   | 12.7  |
| 80°   | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 7.2   | 10.8  |
| 82.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.4    | 5.4    | 7.2   | 9.0   |
| 85°   | 1.8    | 3.6    | 1.8    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.4   | 7.2   |
| 87.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 3.6    | 5.4   | 5.4   |
| 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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CATALOG NUMBER: LDSQA3D24R509027D010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 166.3  | 166.3 | 166.3  | 166.3 |
| 2.5°  | 164.5  | 160.9 | 160.9  | 160.9 |
| 5°    | 160.9  | 157.3 | 157.3  | 155.5 |
| 7.5°  | 155.5  | 153.7 | 153.7  | 153.7 |
| 10°   | 151.9  | 150.0 | 151.9  | 151.9 |
| 12.5° | 144.6  | 146.4 | 148.2  | 148.2 |
| 15°   | 137.4  | 141.0 | 144.6  | 146.4 |
| 17.5° | 130.2  | 137.4 | 141.0  | 142.8 |
| 20°   | 122.9  | 132.0 | 137.4  | 139.2 |
| 22.5° | 117.5  | 126.5 | 133.8  | 137.4 |
| 25°   | 110.3  | 122.9 | 132.0  | 135.6 |
| 27.5° | 103.0  | 117.5 | 128.4  | 133.8 |
| 30°   | 97.6   | 115.7 | 128.4  | 133.8 |
| 32.5° | 92.2   | 112.1 | 126.5  | 132.0 |
| 35°   | 88.6   | 110.3 | 126.5  | 133.8 |
| 37.5° | 85.0   | 108.5 | 126.5  | 132.0 |
| 40°   | 83.2   | 106.7 | 126.5  | 132.0 |
| 42.5° | 81.4   | 106.7 | 126.5  | 133.8 |
| 45°   | 77.7   | 104.9 | 126.5  | 133.8 |
| 47.5° | 75.9   | 104.9 | 126.5  | 133.8 |
| 50°   | 74.1   | 103.0 | 126.5  | 135.6 |
| 52.5° | 72.3   | 101.2 | 126.5  | 135.6 |
| 55°   | 68.7   | 99.4  | 124.7  | 133.8 |
| 57.5° | 66.9   | 97.6  | 122.9  | 130.2 |
| 60°   | 63.3   | 94.0  | 119.3  | 128.4 |
| 62.5° | 59.7   | 90.4  | 115.7  | 122.9 |
| 65°   | 54.2   | 85.0  | 110.3  | 119.3 |
| 67.5° | 48.8   | 77.7  | 104.9  | 113.9 |
| 70°   | 43.4   | 70.5  | 97.6   | 104.9 |
| 72.5° | 38.0   | 63.3  | 90.4   | 95.8  |
| 75°   | 32.5   | 54.2  | 79.5   | 86.8  |
| 77.5° | 27.1   | 47.0  | 66.9   | 72.3  |
| 80°   | 19.9   | 36.2  | 54.2   | 59.7  |
| 82.5° | 16.3   | 27.1  | 39.8   | 43.4  |
| 85°   | 10.8   | 18.1  | 25.3   | 28.9  |
| 87.5° | 5.4    | 9.0   | 12.7   | 14.5  |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)