

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: P1324097

Luminaire Tested: LDSQA3D17R509030D2WDE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324097  
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: LDSQA3D17R509030D2WDE010 3LSQCA45R 1MB  
Description: 3in Adjustable Dim to Warm LED luminaire with, R50 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

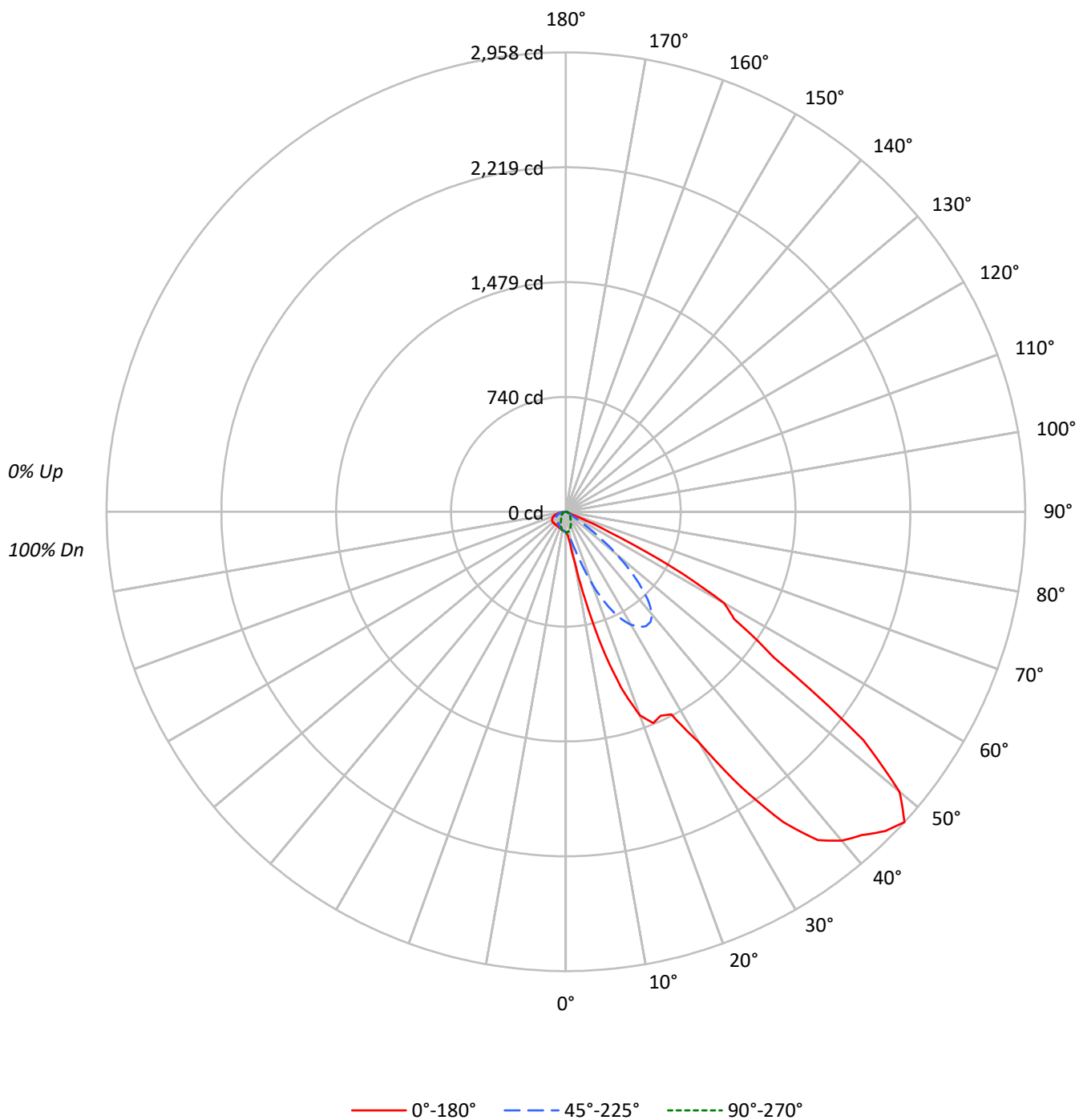
Lumens per Lamp: N/A  
Luminaire Lumens: 1668.0 lumens  
Efficiency: N/A  
Efficacy: 61.1 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.3  
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  |     |    |    | 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 |    |    |    |
| 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°  | 22819  | 22819  | 22819 | 22819 | 22819 |
| 5°  | 27142  | 25413  | 22665 | 21662 | 21420 |
| 10° | 58445  | 31496  | 21668 | 20916 | 21160 |
| 15° | 161841 | 51635  | 19524 | 20041 | 20807 |
| 20° | 255871 | 90575  | 16898 | 19281 | 20325 |
| 25° | 275140 | 133057 | 14518 | 18623 | 20542 |
| 30° | 341512 | 167027 | 12608 | 18335 | 21199 |
| 35° | 512514 | 189010 | 10912 | 18481 | 22412 |
| 40° | 621562 | 194335 | 9712  | 19110 | 23651 |
| 45° | 708125 | 166668 | 9474  | 20362 | 25963 |
| 50° | 751573 | 115023 | 9646  | 21997 | 28963 |
| 55° | 490987 | 46300  | 9518  | 23781 | 32008 |
| 60° | 404930 | 7957   | 9438  | 25799 | 35237 |
| 65° | 122132 | 4116   | 8802  | 27589 | 38755 |
| 70° | 5086   | 4330   | 8711  | 28299 | 42096 |
| 75° | 4791   | 4791   | 8650  | 28746 | 46047 |
| 80° | 4265   | 4265   | 8529  | 28564 | 47110 |
| 85° | 2766   | 5730   | 11461 | 28455 | 45646 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 754008 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.8   | 0.8       |
| 10°-20°   | 79.0   | 4.7       |
| 20°-30°   | 203.0  | 12.2      |
| 30°-40°   | 364.7  | 21.9      |
| 40°-50°   | 487.2  | 29.2      |
| 50°-60°   | 371.1  | 22.2      |
| 60°-70°   | 112.6  | 6.8       |
| 70°-80°   | 26.9   | 1.6       |
| 80°-90°   | 9.7    | 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°    | 295.8  | 17.7      |
| 0°-40°    | 660.5  | 39.6      |
| 0°-60°    | 1518.8 | 91.1      |
| 0°-90°    | 1668.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1668.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 132  | 132 | 132 | 132  | 132  |      |
| 5°  | 157  | 147 | 131 | 125  | 124  | 20   |
| 15° | 908  | 290 | 110 | 112  | 117  | 267  |
| 25° | 1448 | 700 | 76  | 98   | 108  | 691  |
| 35° | 2438 | 899 | 52  | 88   | 107  | 1497 |
| 45° | 2907 | 684 | 39  | 84   | 107  | 2223 |
| 55° | 1635 | 154 | 32  | 79   | 107  | 1627 |
| 65° | 300  | 10  | 22  | 68   | 95   | 415  |
| 75° | 7    | 7   | 13  | 43   | 69   | 8    |
| 85° | 1    | 3   | 6   | 14   | 23   | 2    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°   | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 132.5  | 132.5  | 132.5  | 132.5  | 132.5  | 132.5  | 132.5  | 132.5  | 132.5 | 132.5 | 132.5 |
| 2.5°  | 141.2  | 141.2  | 141.2  | 141.2  | 141.2  | 141.2  | 139.7  | 139.7  | 139.7 | 136.9 | 134.0 |
| 5°    | 157.0  | 158.5  | 157.0  | 157.0  | 154.2  | 154.2  | 151.3  | 151.3  | 147.0 | 138.3 | 131.1 |
| 7.5°  | 206.0  | 204.6  | 203.1  | 197.4  | 193.1  | 183.0  | 178.6  | 171.4  | 158.5 | 138.3 | 128.2 |
| 10°   | 334.2  | 325.6  | 319.8  | 306.9  | 279.5  | 262.2  | 239.2  | 216.1  | 180.1 | 138.3 | 123.9 |
| 12.5° | 580.6  | 579.2  | 561.9  | 518.7  | 479.8  | 426.5  | 370.3  | 314.1  | 221.9 | 135.4 | 118.1 |
| 15°   | 907.7  | 894.7  | 870.2  | 819.8  | 750.6  | 667.1  | 566.2  | 466.8  | 289.6 | 131.1 | 109.5 |
| 17.5° | 1187.2 | 1171.3 | 1152.6 | 1102.1 | 1022.9 | 917.7  | 796.7  | 659.8  | 381.8 | 125.3 | 100.9 |
| 20°   | 1396.1 | 1386.0 | 1370.1 | 1329.8 | 1254.9 | 1159.8 | 1024.3 | 858.7  | 494.2 | 118.1 | 92.2  |
| 22.5° | 1472.4 | 1471.0 | 1473.9 | 1459.4 | 1422.0 | 1347.1 | 1217.4 | 1044.5 | 605.1 | 109.5 | 83.6  |
| 25°   | 1447.9 | 1446.5 | 1465.2 | 1483.9 | 1492.6 | 1462.3 | 1362.9 | 1194.4 | 700.2 | 102.3 | 76.4  |
| 27.5° | 1471.0 | 1466.6 | 1458.0 | 1460.9 | 1485.4 | 1502.7 | 1456.6 | 1309.6 | 782.3 | 92.2  | 69.2  |
| 30°   | 1717.3 | 1692.8 | 1653.9 | 1587.7 | 1538.7 | 1534.4 | 1514.2 | 1400.4 | 839.9 | 82.1  | 63.4  |
| 32.5° | 2102.0 | 2071.8 | 2001.2 | 1878.7 | 1762.0 | 1672.7 | 1609.3 | 1476.7 | 880.3 | 72.0  | 56.2  |
| 35°   | 2437.7 | 2416.1 | 2334.0 | 2212.9 | 2045.8 | 1878.7 | 1763.4 | 1589.1 | 899.0 | 63.4  | 51.9  |
| 37.5° | 2665.3 | 2656.7 | 2576.0 | 2446.3 | 2276.3 | 2079.0 | 1926.2 | 1704.4 | 894.7 | 53.3  | 47.5  |
| 40°   | 2764.7 | 2738.8 | 2671.1 | 2561.6 | 2390.1 | 2212.9 | 2051.6 | 1777.8 | 864.4 | 43.2  | 43.2  |
| 42.5° | 2823.8 | 2795.0 | 2721.5 | 2617.8 | 2449.2 | 2260.5 | 2066.0 | 1746.1 | 792.4 | 34.6  | 41.8  |
| 45°   | 2907.4 | 2877.1 | 2780.6 | 2669.6 | 2499.6 | 2280.7 | 2009.8 | 1633.8 | 684.3 | 25.9  | 38.9  |
| 47.5° | 2957.8 | 2937.6 | 2865.6 | 2754.7 | 2548.6 | 2251.8 | 1880.1 | 1528.6 | 564.8 | 20.2  | 37.5  |
| 50°   | 2805.1 | 2784.9 | 2731.6 | 2655.2 | 2516.9 | 2155.3 | 1766.3 | 1358.6 | 429.3 | 15.8  | 36.0  |
| 52.5° | 2414.6 | 2431.9 | 2442.0 | 2463.6 | 2362.8 | 1939.2 | 1596.3 | 1223.2 | 289.6 | 13.0  | 33.1  |
| 55°   | 1635.2 | 1661.1 | 1690.0 | 1776.4 | 1894.5 | 1726.0 | 1417.7 | 1057.5 | 154.2 | 13.0  | 31.7  |
| 57.5° | 1285.1 | 1276.5 | 1267.8 | 1262.1 | 1354.3 | 1423.4 | 1246.2 | 845.7  | 66.3  | 13.0  | 28.8  |
| 60°   | 1175.6 | 1149.7 | 1132.4 | 1136.7 | 1182.8 | 1155.5 | 986.9  | 551.8  | 23.1  | 13.0  | 27.4  |
| 62.5° | 770.8  | 791.0  | 829.9  | 896.1  | 864.4  | 742.0  | 573.4  | 219.0  | 11.5  | 13.0  | 24.5  |
| 65°   | 299.7  | 289.6  | 299.7  | 318.4  | 275.2  | 204.6  | 128.2  | 38.9   | 10.1  | 11.5  | 21.6  |
| 67.5° | 40.3   | 36.0   | 27.4   | 17.3   | 15.8   | 14.4   | 11.5   | 10.1   | 10.1  | 11.5  | 20.2  |
| 70°   | 10.1   | 10.1   | 10.1   | 10.1   | 10.1   | 10.1   | 10.1   | 8.6    | 8.6   | 10.1  | 17.3  |
| 72.5° | 8.6    | 8.6    | 8.6    | 8.6    | 8.6    | 8.6    | 8.6    | 8.6    | 8.6   | 10.1  | 14.4  |
| 75°   | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2   | 8.6   | 13.0  |
| 77.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8   | 7.2   | 10.1  |
| 80°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3   | 5.8   | 8.6   |
| 82.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.3    | 4.3   | 5.8   | 7.2   |
| 85°   | 1.4    | 2.9    | 1.4    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9   | 4.3   | 5.8   |
| 87.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.9   | 4.3   | 4.3   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 132.5  | 132.5 | 132.5  | 132.5 |
| 2.5°  | 131.1  | 128.2 | 128.2  | 128.2 |
| 5°    | 128.2  | 125.3 | 125.3  | 123.9 |
| 7.5°  | 123.9  | 122.5 | 122.5  | 122.5 |
| 10°   | 121.0  | 119.6 | 121.0  | 121.0 |
| 12.5° | 115.3  | 116.7 | 118.1  | 118.1 |
| 15°   | 109.5  | 112.4 | 115.3  | 116.7 |
| 17.5° | 103.7  | 109.5 | 112.4  | 113.8 |
| 20°   | 98.0   | 105.2 | 109.5  | 110.9 |
| 22.5° | 93.6   | 100.9 | 106.6  | 109.5 |
| 25°   | 87.9   | 98.0  | 105.2  | 108.1 |
| 27.5° | 82.1   | 93.6  | 102.3  | 106.6 |
| 30°   | 77.8   | 92.2  | 102.3  | 106.6 |
| 32.5° | 73.5   | 89.3  | 100.9  | 105.2 |
| 35°   | 70.6   | 87.9  | 100.9  | 106.6 |
| 37.5° | 67.7   | 86.4  | 100.9  | 105.2 |
| 40°   | 66.3   | 85.0  | 100.9  | 105.2 |
| 42.5° | 64.8   | 85.0  | 100.9  | 106.6 |
| 45°   | 62.0   | 83.6  | 100.9  | 106.6 |
| 47.5° | 60.5   | 83.6  | 100.9  | 106.6 |
| 50°   | 59.1   | 82.1  | 100.9  | 108.1 |
| 52.5° | 57.6   | 80.7  | 100.9  | 108.1 |
| 55°   | 54.7   | 79.2  | 99.4   | 106.6 |
| 57.5° | 53.3   | 77.8  | 98.0   | 103.7 |
| 60°   | 50.4   | 74.9  | 95.1   | 102.3 |
| 62.5° | 47.5   | 72.0  | 92.2   | 98.0  |
| 65°   | 43.2   | 67.7  | 87.9   | 95.1  |
| 67.5° | 38.9   | 62.0  | 83.6   | 90.8  |
| 70°   | 34.6   | 56.2  | 77.8   | 83.6  |
| 72.5° | 30.3   | 50.4  | 72.0   | 76.4  |
| 75°   | 25.9   | 43.2  | 63.4   | 69.2  |
| 77.5° | 21.6   | 37.5  | 53.3   | 57.6  |
| 80°   | 15.8   | 28.8  | 43.2   | 47.5  |
| 82.5° | 13.0   | 21.6  | 31.7   | 34.6  |
| 85°   | 8.6    | 14.4  | 20.2   | 23.1  |
| 87.5° | 4.3    | 7.2   | 10.1   | 11.5  |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)