

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: P1325732

Luminaire Tested: LDSQA3D05R70W2N902765DE010 3LSQCLSWWR 1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-72)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R70W2N902765DE010 3LSQCLSWWR 1MB\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,  
3LSQCLSWWR 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

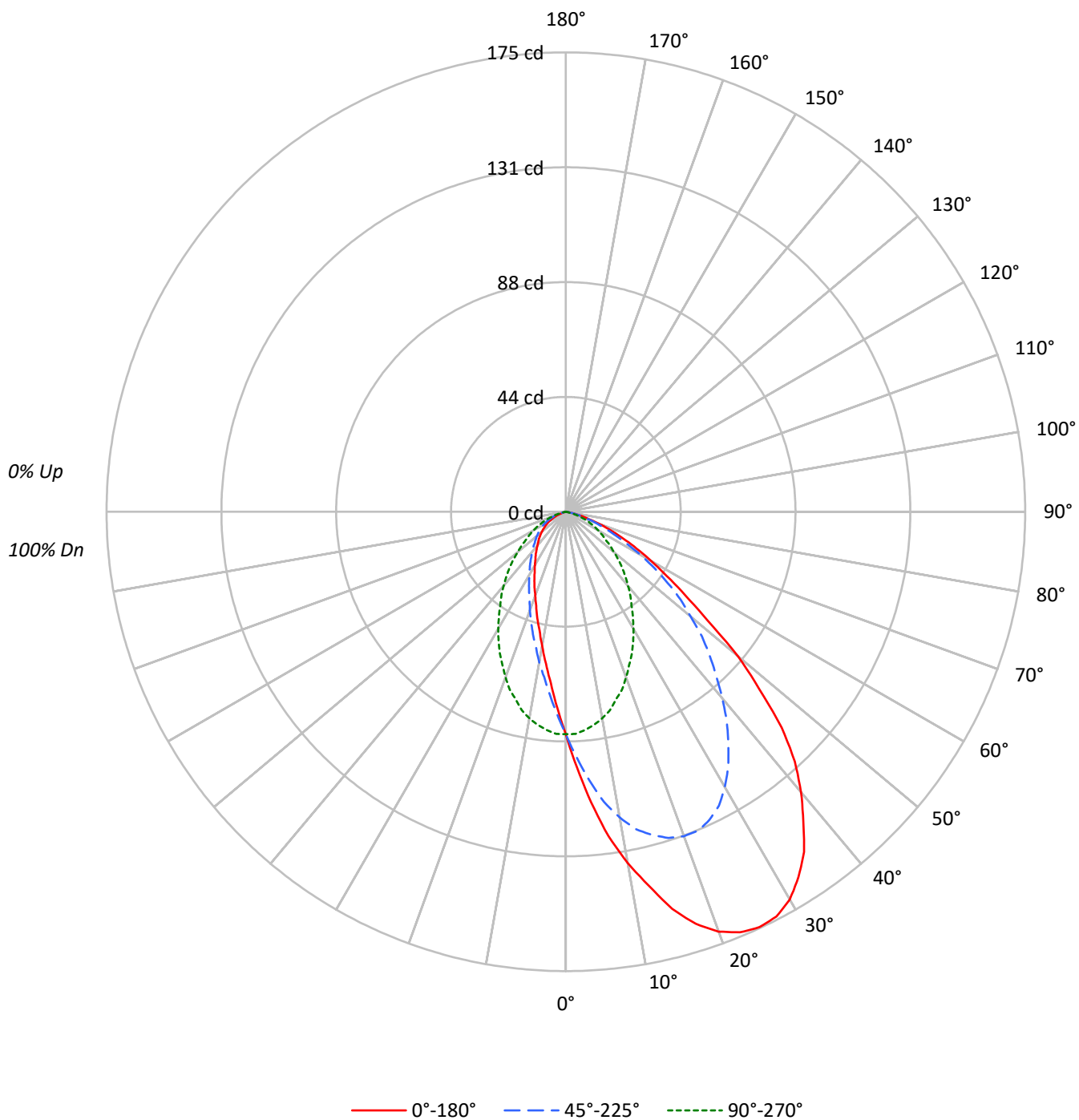
Lumens per Lamp: N/A  
Luminaire Lumens: 190.0 lumens  
Efficiency: N/A  
Efficacy: 32.2 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 94  | 92  | 90  | 89  |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  |  | 88  | 84  | 81  |  | 85  | 82  | 79  | 77  |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  |  | 79  | 74  | 70  |  | 76  | 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  | 55  |  | 63  | 58  | 54  | 52  |
| 6   | 75  | 63  | 55  | 50  | 74  | 63  | 55  | 49  | 61  | 54  | 49  |  | 59  | 53  | 49  |  | 58  | 52  | 48  | 46  |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 43  | 42  |
| 8   | 66  | 53  | 45  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  |  | 50  | 44  | 39  |  | 49  | 43  | 39  | 38  |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  |  | 46  | 40  | 36  |  | 45  | 40  | 36  | 34  |
| 10  | 58  | 45  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 37  | 33  |  | 43  | 37  | 33  |  | 42  | 37  | 33  | 31  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 14587 | 14587 | 14587 | 14587 | 14587 |
| 5°  | 19207 | 17755 | 14436 | 12084 | 11324 |
| 10° | 23766 | 20688 | 13973 | 10195 | 9076  |
| 15° | 27921 | 22733 | 13176 | 8612  | 7489  |
| 20° | 31193 | 24101 | 12298 | 7331  | 6231  |
| 25° | 33179 | 24608 | 11307 | 6309  | 5397  |
| 30° | 33926 | 24083 | 10242 | 5489  | 4693  |
| 35° | 33261 | 22685 | 9167  | 4962  | 4205  |
| 40° | 31340 | 20841 | 8273  | 4496  | 3777  |
| 45° | 28326 | 18876 | 7404  | 4092  | 3507  |
| 50° | 22908 | 16585 | 6430  | 3858  | 3215  |
| 55° | 16664 | 14262 | 5525  | 3603  | 2883  |
| 60° | 12951 | 11298 | 4960  | 3307  | 2618  |
| 65° | 9780  | 8150  | 4075  | 2934  | 1956  |
| 70° | 6848  | 5841  | 3021  | 2216  | 1209  |
| 75° | 3993  | 3460  | 1597  | 1065  | 266   |
| 80° | 793   | 1190  | 397   | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28326 cd/sqm

TEST NUMBER: P1325732

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.3    | 4.4       |
| 10°-20°   | 24.7   | 13.0      |
| 20°-30°   | 37.2   | 19.6      |
| 30°-40°   | 41.4   | 21.8      |
| 40°-50°   | 36.7   | 19.3      |
| 50°-60°   | 24.9   | 13.1      |
| 60°-70°   | 13.1   | 6.9       |
| 70°-80°   | 3.7    | 2.0       |
| 80°-90°   | 0.1    | 0.1       |
| 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°    | 70.2   | 36.9      |
| 0°-40°    | 111.6  | 58.7      |
| 0°-60°    | 173.2  | 91.1      |
| 0°-90°    | 190.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 190.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 85  | 85  | 85  | 85   | 85   |      |
| 5°  | 111 | 103 | 84  | 70   | 66   | 11   |
| 15° | 157 | 128 | 74  | 48   | 42   | 44   |
| 25° | 175 | 130 | 60  | 33   | 28   | 80   |
| 35° | 158 | 108 | 44  | 24   | 20   | 98   |
| 45° | 116 | 78  | 30  | 17   | 14   | 88   |
| 55° | 56  | 48  | 18  | 12   | 10   | 51   |
| 65° | 24  | 20  | 10  | 7    | 5    | 24   |
| 75° | 6   | 5   | 2   | 2    | 0    | 7    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 84.7  | 84.7  | 84.7  | 84.7  | 84.7  | 84.7  | 84.7  | 84.7  | 84.7  | 84.7  | 84.7  |
| 2.5°  | 97.5  | 97.1  | 96.7  | 96.7  | 96.3  | 95.9  | 95.1  | 95.1  | 94.3  | 93.5  | 92.7  |
| 5°    | 111.1 | 111.1 | 111.1 | 109.9 | 109.9 | 108.3 | 107.5 | 105.9 | 104.3 | 102.7 | 100.7 |
| 7.5°  | 124.7 | 124.7 | 123.5 | 123.1 | 121.9 | 120.3 | 119.1 | 116.7 | 113.9 | 111.5 | 108.3 |
| 10°   | 135.9 | 135.9 | 134.7 | 133.9 | 131.5 | 129.9 | 127.5 | 124.7 | 121.9 | 118.3 | 114.3 |
| 12.5° | 145.8 | 146.2 | 144.6 | 143.0 | 140.6 | 138.3 | 135.1 | 131.5 | 127.9 | 123.9 | 118.7 |
| 15°   | 156.6 | 156.2 | 154.2 | 152.2 | 149.4 | 145.8 | 141.8 | 137.1 | 132.3 | 127.5 | 121.9 |
| 17.5° | 164.6 | 164.2 | 162.2 | 159.8 | 156.2 | 151.8 | 147.4 | 141.8 | 136.3 | 130.3 | 123.5 |
| 20°   | 170.2 | 169.8 | 167.8 | 164.6 | 161.0 | 156.2 | 151.0 | 144.6 | 138.6 | 131.5 | 123.9 |
| 22.5° | 173.4 | 173.0 | 170.6 | 167.8 | 163.4 | 158.2 | 152.6 | 145.8 | 139.0 | 131.5 | 123.1 |
| 25°   | 174.6 | 173.8 | 171.4 | 168.2 | 163.8 | 158.2 | 151.8 | 144.6 | 137.5 | 129.5 | 120.7 |
| 27.5° | 173.8 | 173.0 | 170.2 | 166.6 | 161.8 | 155.4 | 149.0 | 141.8 | 134.3 | 126.3 | 117.1 |
| 30°   | 170.6 | 169.4 | 167.0 | 163.4 | 158.2 | 151.8 | 145.0 | 137.5 | 129.5 | 121.1 | 111.9 |
| 32.5° | 165.0 | 164.2 | 161.8 | 157.8 | 152.6 | 146.2 | 139.4 | 131.5 | 123.5 | 115.1 | 105.9 |
| 35°   | 158.2 | 156.6 | 154.2 | 150.6 | 145.4 | 139.0 | 132.3 | 123.9 | 116.3 | 107.9 | 99.1  |
| 37.5° | 148.6 | 148.2 | 145.4 | 142.6 | 137.5 | 130.7 | 124.3 | 116.3 | 108.7 | 100.7 | 91.9  |
| 40°   | 139.4 | 138.6 | 136.3 | 133.1 | 127.9 | 121.9 | 115.1 | 107.9 | 100.3 | 92.7  | 84.7  |
| 42.5° | 129.1 | 127.9 | 126.3 | 123.1 | 118.3 | 112.3 | 105.9 | 98.7  | 91.9  | 84.7  | 77.5  |
| 45°   | 116.3 | 115.9 | 113.9 | 112.3 | 107.9 | 102.7 | 96.3  | 89.9  | 83.1  | 77.5  | 71.9  |
| 47.5° | 99.9  | 99.5  | 99.1  | 97.9  | 95.5  | 91.9  | 87.1  | 81.1  | 75.9  | 70.3  | 62.7  |
| 50°   | 85.5  | 85.1  | 84.3  | 83.9  | 81.9  | 79.9  | 76.3  | 72.7  | 68.3  | 61.9  | 55.9  |
| 52.5° | 67.9  | 68.3  | 69.5  | 69.9  | 69.5  | 67.9  | 66.3  | 65.1  | 59.1  | 55.1  | 49.5  |
| 55°   | 55.5  | 55.5  | 55.1  | 55.5  | 55.9  | 56.7  | 56.7  | 55.1  | 51.1  | 47.5  | 42.8  |
| 57.5° | 45.6  | 45.6  | 45.6  | 45.6  | 45.6  | 46.0  | 46.0  | 45.6  | 43.6  | 40.0  | 35.6  |
| 60°   | 37.6  | 37.2  | 37.2  | 37.6  | 37.2  | 37.2  | 37.6  | 37.6  | 35.6  | 32.8  | 28.8  |
| 62.5° | 30.4  | 30.4  | 30.4  | 30.0  | 30.0  | 30.4  | 30.4  | 30.0  | 28.4  | 25.6  | 22.8  |
| 65°   | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.4  | 24.0  | 23.6  | 22.0  | 20.0  | 18.0  |
| 67.5° | 18.4  | 18.4  | 18.8  | 18.4  | 18.8  | 18.8  | 18.8  | 18.0  | 16.8  | 15.2  | 14.0  |
| 70°   | 13.6  | 13.6  | 13.6  | 14.0  | 14.4  | 14.4  | 14.0  | 13.2  | 12.4  | 11.6  | 10.4  |
| 72.5° | 9.2   | 9.6   | 9.6   | 9.6   | 10.0  | 10.0  | 9.6   | 9.2   | 8.8   | 8.0   | 7.6   |
| 75°   | 6.0   | 5.6   | 6.0   | 6.0   | 6.4   | 6.4   | 6.0   | 6.0   | 5.6   | 5.2   | 4.8   |
| 77.5° | 2.8   | 2.8   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 2.8   | 2.8   |
| 80°   | 0.8   | 0.8   | 0.8   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 82.5° | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 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   |

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**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|------|--------|------|--------|------|
| 0°    | 84.7  | 84.7  | 84.7  | 84.7 | 84.7   | 84.7 | 84.7   | 84.7 |
| 2.5°  | 91.9  | 90.7  | 89.1  | 84.7 | 80.7   | 77.1 | 75.1   | 74.7 |
| 5°    | 98.3  | 96.7  | 92.7  | 83.5 | 75.9   | 69.9 | 66.3   | 65.5 |
| 7.5°  | 105.1 | 101.9 | 96.3  | 81.9 | 71.1   | 63.5 | 59.5   | 58.3 |
| 10°   | 110.3 | 106.3 | 98.7  | 79.9 | 66.3   | 58.3 | 53.5   | 51.9 |
| 12.5° | 113.9 | 109.1 | 100.7 | 77.5 | 62.3   | 52.7 | 47.9   | 46.3 |
| 15°   | 115.9 | 110.7 | 101.1 | 73.9 | 57.5   | 48.3 | 43.2   | 42.0 |
| 17.5° | 116.7 | 110.7 | 100.3 | 71.1 | 53.1   | 44.0 | 39.2   | 37.6 |
| 20°   | 116.3 | 109.1 | 98.3  | 67.1 | 49.1   | 40.0 | 35.2   | 34.0 |
| 22.5° | 114.7 | 106.7 | 95.1  | 63.1 | 45.2   | 36.0 | 32.0   | 31.2 |
| 25°   | 112.3 | 103.5 | 91.5  | 59.5 | 41.6   | 33.2 | 29.2   | 28.4 |
| 27.5° | 108.3 | 99.5  | 86.7  | 55.5 | 38.4   | 30.4 | 26.8   | 25.6 |
| 30°   | 103.1 | 94.7  | 81.9  | 51.5 | 35.2   | 27.6 | 24.4   | 23.6 |
| 32.5° | 97.5  | 89.1  | 77.1  | 47.5 | 32.4   | 25.6 | 22.4   | 21.6 |
| 35°   | 91.1  | 83.1  | 71.1  | 43.6 | 29.6   | 23.6 | 20.4   | 20.0 |
| 37.5° | 84.7  | 76.7  | 65.9  | 40.4 | 27.2   | 21.6 | 18.8   | 18.4 |
| 40°   | 77.5  | 71.1  | 63.1  | 36.8 | 25.2   | 20.0 | 17.6   | 16.8 |
| 42.5° | 73.1  | 64.3  | 54.3  | 33.6 | 23.2   | 18.4 | 16.0   | 15.6 |
| 45°   | 63.5  | 57.1  | 49.1  | 30.4 | 21.2   | 16.8 | 14.8   | 14.4 |
| 47.5° | 57.1  | 51.5  | 44.0  | 27.2 | 19.6   | 15.6 | 13.6   | 13.2 |
| 50°   | 50.7  | 45.6  | 38.4  | 24.0 | 18.0   | 14.4 | 12.4   | 12.0 |
| 52.5° | 44.4  | 39.2  | 32.8  | 21.2 | 16.0   | 13.2 | 11.2   | 10.8 |
| 55°   | 38.0  | 33.2  | 27.2  | 18.4 | 14.4   | 12.0 | 10.4   | 9.6  |
| 57.5° | 31.2  | 27.2  | 23.2  | 16.4 | 12.8   | 10.8 | 9.2    | 8.4  |
| 60°   | 25.2  | 22.8  | 19.6  | 14.4 | 11.2   | 9.6  | 8.0    | 7.6  |
| 62.5° | 20.4  | 18.4  | 16.4  | 12.4 | 10.0   | 8.4  | 7.2    | 6.0  |
| 65°   | 16.4  | 15.2  | 13.6  | 10.0 | 8.4    | 7.2  | 6.0    | 4.8  |
| 67.5° | 12.8  | 12.0  | 10.8  | 8.4  | 6.8    | 6.0  | 4.4    | 3.6  |
| 70°   | 10.0  | 9.2   | 8.4   | 6.0  | 5.2    | 4.4  | 3.2    | 2.4  |
| 72.5° | 7.2   | 6.4   | 6.0   | 4.4  | 3.6    | 3.2  | 2.0    | 1.2  |
| 75°   | 4.4   | 4.4   | 3.6   | 2.4  | 2.0    | 1.6  | 0.8    | 0.4  |
| 77.5° | 2.4   | 2.4   | 2.0   | 1.2  | 1.2    | 0.4  | 0.0    | 0.0  |
| 80°   | 1.2   | 0.8   | 0.8   | 0.4  | 0.4    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.4   | 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° | 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  |

(END OF REPORT)