

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: P1325654

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,  
3LSQCLSWWR 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

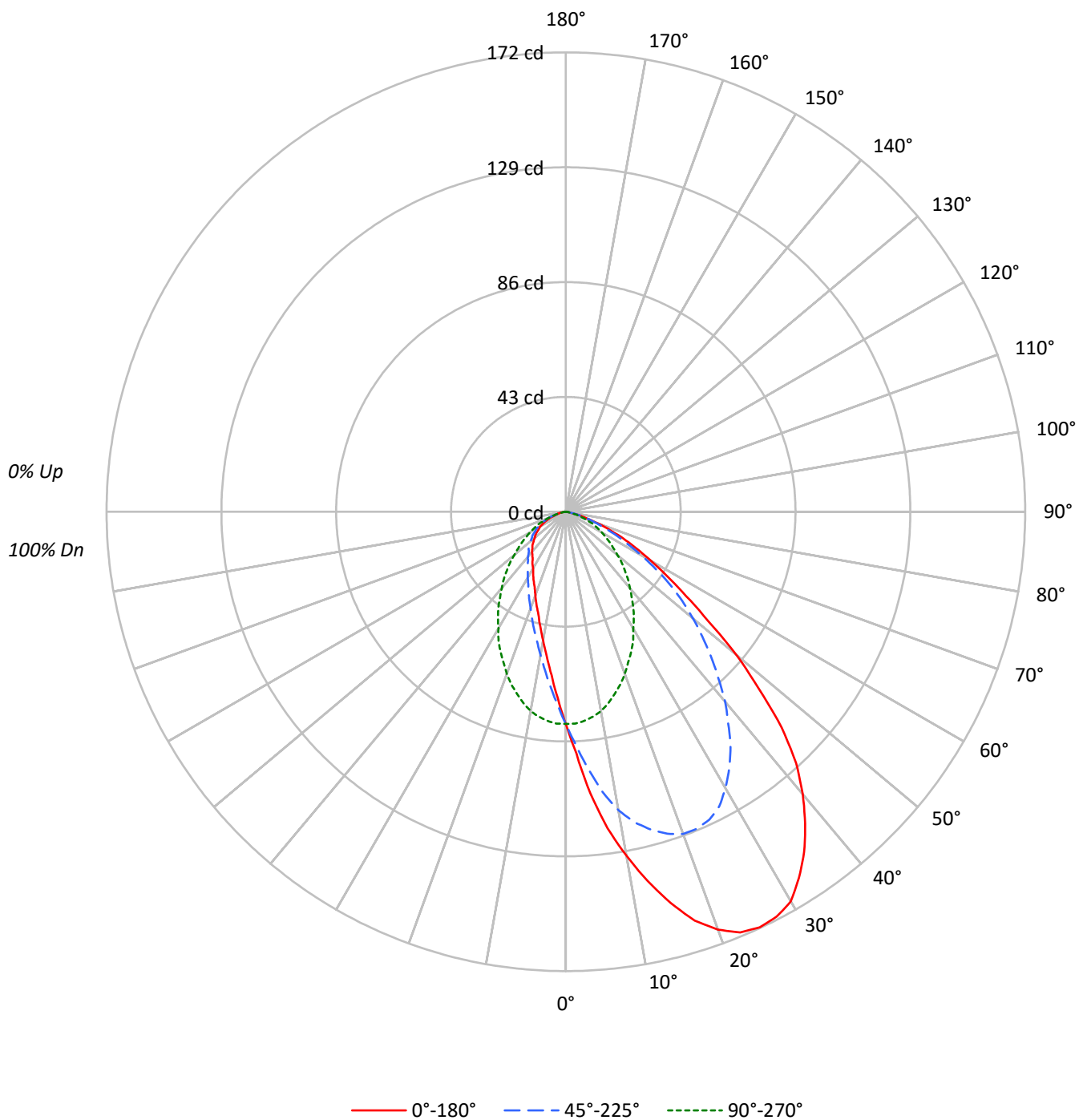
Lumens per Lamp: N/A  
Luminaire Lumens: 194.0 lumens  
Efficiency: N/A  
Efficacy: 32.9 lumens/watt  
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1325654

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### Luminous Intensity Polar Plot



TEST NUMBER: P1325654

CATALOG NUMBER: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MW\_4000K

**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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 95  | 97  | 95  | 93  | 93  | 91  | 90  | 88  | 88  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 72  | 81  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  | 66  |
| 4   | 87  | 76  | 68  | 63  | 85  | 75  | 68  | 62  | 73  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 58  | 58  |
| 5   | 80  | 69  | 61  | 55  | 78  | 68  | 60  | 54  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 51  | 51  |
| 6   | 75  | 62  | 54  | 48  | 73  | 62  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 45  | 45  |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 40  | 40  |
| 8   | 65  | 52  | 44  | 39  | 63  | 52  | 44  | 39  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36  | 36  |
| 9   | 61  | 48  | 40  | 35  | 59  | 48  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 33  | 33  |
| 10  | 57  | 44  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 41  | 36  | 32  | 30  | 30  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 13674 | 13674 | 13674 | 13674 | 13674 |
| 5°  | 18308 | 16718 | 13588 | 11376 | 10615 |
| 10° | 22874 | 19849 | 13256 | 9548  | 8552  |
| 15° | 27030 | 21966 | 12588 | 8148  | 7078  |
| 20° | 30515 | 23533 | 11840 | 7056  | 6103  |
| 25° | 32628 | 24171 | 10984 | 6252  | 5416  |
| 30° | 33509 | 23764 | 10043 | 5668  | 4872  |
| 35° | 32714 | 22601 | 9272  | 5235  | 4562  |
| 40° | 31025 | 20841 | 8386  | 4969  | 4429  |
| 45° | 27839 | 18754 | 7623  | 4798  | 4311  |
| 50° | 22345 | 16665 | 6779  | 4608  | 4073  |
| 55° | 16514 | 14322 | 6035  | 4564  | 3963  |
| 60° | 12710 | 11194 | 5373  | 4409  | 3858  |
| 65° | 9658  | 8354  | 4727  | 4075  | 3423  |
| 70° | 6445  | 5841  | 3626  | 3626  | 2820  |
| 75° | 3460  | 3460  | 2396  | 2396  | 2129  |
| 80° | 793   | 1587  | 1190  | 1587  | 1984  |
| 85° | 0     | 790   | 790   | 1581  | 1581  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27839 cd/sqm

TEST NUMBER: P1325654

CATALOG NUMBER: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MW\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.8    | 4.0       |
| 10°-20°   | 23.8   | 12.3      |
| 20°-30°   | 36.7   | 18.9      |
| 30°-40°   | 41.7   | 21.5      |
| 40°-50°   | 37.7   | 19.4      |
| 50°-60°   | 26.3   | 13.6      |
| 60°-70°   | 14.5   | 7.5       |
| 70°-80°   | 4.8    | 2.5       |
| 80°-90°   | 0.6    | 0.3       |
| 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°    | 68.3   | 35.2      |
| 0°-40°    | 110.0  | 56.7      |
| 0°-60°    | 174.0  | 89.7      |
| 0°-90°    | 194.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 194.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 79  | 79  | 79  | 79   | 79   |      |
| 5°  | 106 | 97  | 79  | 66   | 61   | 11   |
| 15° | 152 | 123 | 71  | 46   | 40   | 43   |
| 25° | 172 | 127 | 58  | 33   | 28   | 79   |
| 35° | 156 | 108 | 44  | 25   | 22   | 97   |
| 45° | 114 | 77  | 31  | 20   | 18   | 87   |
| 55° | 55  | 48  | 20  | 15   | 13   | 51   |
| 65° | 24  | 20  | 12  | 10   | 8    | 24   |
| 75° | 5   | 5   | 4   | 4    | 3    | 6    |
| 85° | 0   | 0   | 0   | 1    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1325654

CATALOG NUMBER: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MW\_4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 79.4  | 79.4  | 79.4  | 79.4  | 79.4  | 79.4  | 79.4  | 79.4  | 79.4  | 79.4  | 79.4  |
| 2.5°  | 90.7  | 91.5  | 91.9  | 91.1  | 90.7  | 90.3  | 89.5  | 89.1  | 88.3  | 87.5  | 87.1  |
| 5°    | 105.9 | 105.9 | 105.9 | 105.1 | 103.9 | 103.1 | 101.5 | 100.3 | 98.3  | 96.7  | 95.1  |
| 7.5°  | 119.5 | 119.5 | 119.1 | 117.9 | 117.1 | 115.1 | 113.1 | 111.5 | 108.3 | 105.9 | 102.7 |
| 10°   | 130.8 | 130.8 | 130.4 | 128.4 | 127.2 | 124.8 | 122.8 | 119.9 | 116.7 | 113.5 | 109.9 |
| 12.5° | 141.6 | 141.6 | 140.0 | 138.4 | 136.0 | 132.8 | 130.0 | 127.2 | 122.8 | 119.1 | 114.7 |
| 15°   | 151.6 | 151.6 | 150.8 | 148.0 | 144.8 | 141.2 | 137.2 | 133.2 | 128.0 | 123.2 | 118.3 |
| 17.5° | 160.5 | 160.1 | 158.9 | 155.6 | 152.4 | 148.0 | 143.2 | 138.4 | 132.0 | 126.4 | 120.3 |
| 20°   | 166.5 | 166.5 | 164.9 | 161.3 | 157.7 | 152.8 | 147.6 | 142.0 | 135.2 | 128.4 | 121.1 |
| 22.5° | 170.5 | 170.1 | 168.5 | 164.9 | 160.5 | 155.6 | 149.6 | 143.6 | 136.0 | 128.4 | 120.7 |
| 25°   | 171.7 | 171.3 | 169.7 | 165.7 | 161.3 | 156.0 | 149.6 | 143.2 | 135.2 | 127.2 | 118.7 |
| 27.5° | 170.9 | 170.5 | 168.9 | 164.5 | 160.1 | 154.0 | 147.6 | 140.8 | 132.8 | 124.4 | 115.9 |
| 30°   | 168.5 | 167.3 | 165.7 | 161.7 | 156.9 | 150.8 | 144.0 | 136.4 | 128.4 | 119.5 | 111.1 |
| 32.5° | 162.5 | 162.5 | 160.5 | 156.5 | 151.6 | 145.2 | 138.4 | 131.2 | 122.4 | 113.9 | 105.1 |
| 35°   | 155.6 | 155.2 | 153.6 | 149.2 | 144.8 | 138.8 | 132.0 | 124.4 | 115.9 | 107.5 | 99.1  |
| 37.5° | 147.2 | 146.8 | 145.2 | 141.2 | 136.4 | 130.8 | 123.6 | 116.3 | 108.3 | 99.9  | 92.3  |
| 40°   | 138.0 | 137.2 | 135.2 | 132.0 | 128.0 | 121.6 | 115.1 | 107.9 | 100.3 | 92.7  | 85.0  |
| 42.5° | 127.6 | 126.8 | 125.2 | 122.8 | 117.9 | 112.3 | 106.3 | 99.5  | 92.3  | 84.6  | 79.0  |
| 45°   | 114.3 | 114.3 | 113.5 | 111.1 | 107.5 | 103.1 | 96.7  | 90.7  | 83.8  | 77.0  | 71.0  |
| 47.5° | 97.9  | 98.7  | 98.3  | 97.1  | 95.5  | 91.5  | 87.1  | 81.8  | 75.4  | 69.4  | 63.8  |
| 50°   | 83.4  | 83.8  | 84.2  | 83.4  | 82.2  | 79.4  | 76.6  | 73.4  | 67.8  | 62.2  | 57.0  |
| 52.5° | 67.0  | 68.2  | 68.2  | 68.6  | 68.6  | 67.8  | 67.0  | 63.4  | 60.6  | 55.0  | 50.1  |
| 55°   | 55.0  | 55.0  | 55.0  | 55.8  | 56.2  | 56.6  | 55.8  | 55.0  | 51.7  | 47.7  | 43.3  |
| 57.5° | 44.9  | 44.9  | 45.7  | 45.3  | 45.3  | 46.1  | 46.1  | 45.7  | 43.7  | 40.1  | 36.1  |
| 60°   | 36.9  | 36.9  | 36.9  | 36.9  | 37.3  | 37.3  | 37.3  | 37.3  | 35.7  | 32.5  | 29.3  |
| 62.5° | 29.7  | 29.7  | 29.7  | 30.1  | 30.1  | 30.1  | 30.5  | 30.1  | 28.5  | 26.1  | 23.3  |
| 65°   | 23.7  | 23.3  | 23.7  | 23.7  | 24.1  | 24.1  | 24.1  | 23.7  | 22.1  | 20.5  | 18.5  |
| 67.5° | 17.7  | 18.1  | 18.1  | 18.1  | 18.5  | 18.9  | 18.5  | 18.1  | 16.8  | 15.2  | 14.4  |
| 70°   | 12.8  | 13.2  | 13.2  | 13.2  | 13.6  | 14.0  | 13.6  | 13.2  | 12.4  | 11.6  | 10.8  |
| 72.5° | 8.4   | 8.8   | 8.8   | 9.2   | 9.6   | 9.6   | 9.2   | 9.2   | 8.8   | 8.0   | 7.6   |
| 75°   | 5.2   | 5.2   | 5.6   | 5.6   | 6.0   | 6.0   | 6.0   | 5.6   | 5.6   | 5.2   | 5.2   |
| 77.5° | 2.4   | 2.4   | 2.8   | 2.8   | 2.8   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 2.8   |
| 80°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.2   | 1.2   | 1.2   | 1.6   | 1.6   | 1.6   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   | 0.8   | 0.8   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 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°    | 79.4  | 79.4  | 79.4  | 79.4 | 79.4   | 79.4 | 79.4   | 79.4 |
| 2.5°  | 86.2  | 85.0  | 83.4  | 79.4 | 75.4   | 72.2 | 70.2   | 69.8 |
| 5°    | 93.1  | 91.1  | 87.5  | 78.6 | 71.4   | 65.8 | 62.6   | 61.4 |
| 7.5°  | 99.9  | 96.3  | 91.1  | 77.4 | 66.6   | 59.8 | 56.2   | 54.6 |
| 10°   | 105.5 | 101.1 | 94.3  | 75.8 | 62.6   | 54.6 | 50.1   | 48.9 |
| 12.5° | 109.9 | 104.7 | 96.3  | 73.4 | 58.6   | 49.7 | 45.3   | 44.1 |
| 15°   | 112.7 | 107.1 | 97.5  | 70.6 | 54.6   | 45.7 | 41.3   | 39.7 |
| 17.5° | 113.9 | 107.1 | 97.1  | 67.8 | 50.9   | 42.1 | 37.7   | 36.5 |
| 20°   | 113.9 | 106.3 | 95.9  | 64.6 | 47.3   | 38.5 | 34.5   | 33.3 |
| 22.5° | 112.7 | 104.7 | 93.1  | 61.0 | 44.1   | 35.7 | 31.7   | 30.5 |
| 25°   | 110.3 | 101.5 | 89.9  | 57.8 | 40.9   | 32.9 | 29.3   | 28.5 |
| 27.5° | 106.7 | 97.9  | 85.8  | 54.6 | 38.1   | 30.5 | 27.3   | 26.5 |
| 30°   | 102.3 | 93.5  | 81.4  | 50.5 | 35.3   | 28.5 | 25.7   | 24.5 |
| 32.5° | 96.7  | 88.3  | 76.6  | 47.3 | 32.9   | 26.5 | 24.1   | 23.3 |
| 35°   | 90.7  | 83.0  | 71.4  | 44.1 | 30.5   | 24.9 | 22.5   | 21.7 |
| 37.5° | 84.6  | 76.6  | 67.0  | 40.5 | 28.5   | 23.3 | 21.3   | 20.5 |
| 40°   | 78.2  | 72.2  | 62.2  | 37.3 | 26.9   | 22.1 | 20.1   | 19.7 |
| 42.5° | 71.8  | 65.4  | 55.4  | 34.5 | 24.9   | 20.5 | 18.9   | 18.5 |
| 45°   | 64.2  | 58.2  | 50.1  | 31.3 | 23.3   | 19.7 | 18.1   | 17.7 |
| 47.5° | 57.8  | 52.2  | 44.9  | 28.5 | 21.7   | 18.5 | 16.8   | 16.4 |
| 50°   | 51.7  | 46.1  | 39.3  | 25.3 | 20.1   | 17.2 | 16.0   | 15.2 |
| 52.5° | 44.9  | 40.1  | 34.1  | 22.5 | 18.5   | 16.0 | 14.8   | 14.4 |
| 55°   | 38.9  | 34.1  | 28.5  | 20.1 | 16.8   | 15.2 | 13.6   | 13.2 |
| 57.5° | 32.1  | 28.1  | 24.1  | 17.7 | 15.2   | 13.6 | 12.8   | 12.0 |
| 60°   | 26.1  | 23.3  | 20.5  | 15.6 | 13.6   | 12.8 | 11.6   | 11.2 |
| 62.5° | 21.3  | 19.3  | 17.2  | 13.6 | 12.0   | 11.2 | 10.4   | 9.6  |
| 65°   | 16.8  | 15.6  | 14.0  | 11.6 | 10.4   | 10.0 | 9.2    | 8.4  |
| 67.5° | 13.2  | 12.4  | 11.2  | 9.2  | 8.8    | 8.4  | 7.6    | 6.8  |
| 70°   | 10.0  | 9.6   | 8.8   | 7.2  | 6.8    | 7.2  | 6.4    | 5.6  |
| 72.5° | 7.2   | 6.8   | 6.4   | 5.2  | 5.2    | 5.2  | 4.8    | 4.0  |
| 75°   | 4.8   | 4.4   | 4.0   | 3.6  | 3.6    | 3.6  | 3.6    | 3.2  |
| 77.5° | 2.8   | 2.8   | 2.4   | 2.0  | 2.4    | 2.4  | 2.8    | 2.8  |
| 80°   | 1.2   | 1.2   | 1.2   | 1.2  | 1.6    | 1.6  | 2.0    | 2.0  |
| 82.5° | 0.8   | 0.8   | 0.8   | 0.8  | 1.2    | 1.2  | 1.2    | 1.2  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4  | 0.4    | 0.8  | 0.8    | 0.8  |
| 87.5° | 0.4   | 0.4   | 0.4   | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)