

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: P1327338

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327338  
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: LDSQA3D09R70W2N902765DE010 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**

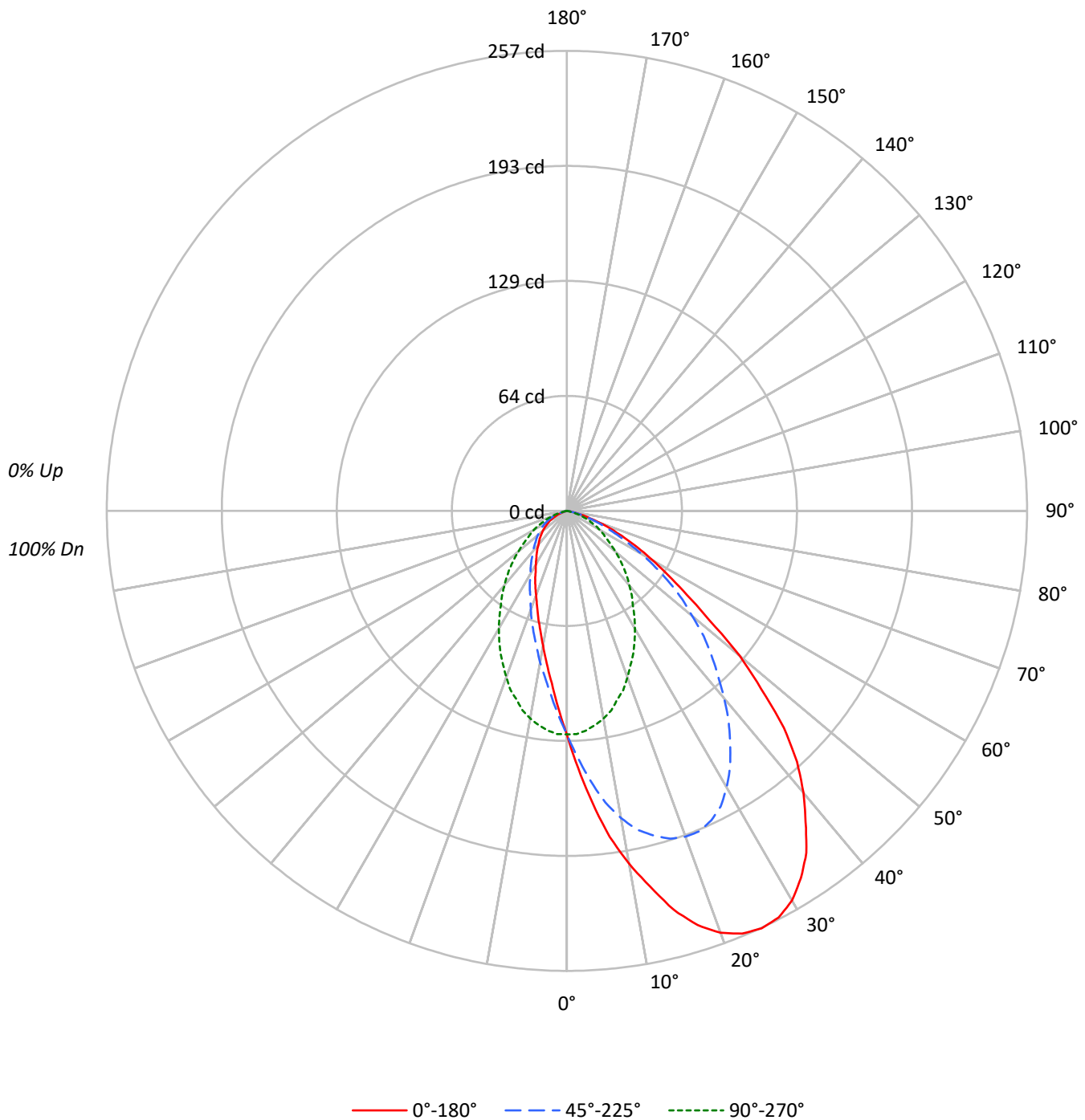
Lumens per Lamp: N/A  
Luminaire Lumens: 280.0 lumens  
Efficiency: N/A  
Efficacy: 31.1 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P1327338

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**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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 111 | 107 | 104 | 101 |  | 108 | 105 | 102 | 99  |  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 94  | 92  | 90  |
| 2   | 103 | 96  | 90  | 86  |  | 100 | 94  | 89  | 85  |  | 91  | 86  | 83  |  | 88  | 84  | 81  |  | 85  | 82  | 79  |
| 3   | 95  | 86  | 79  | 73  |  | 93  | 84  | 78  | 73  |  | 82  | 76  | 72  |  | 79  | 74  | 70  |  | 76  | 73  | 69  |
| 4   | 88  | 77  | 70  | 64  |  | 86  | 76  | 69  | 63  |  | 74  | 67  | 63  |  | 71  | 66  | 62  |  | 69  | 65  | 61  |
| 5   | 81  | 70  | 62  | 56  |  | 79  | 69  | 61  | 56  |  | 67  | 60  | 55  |  | 65  | 59  | 55  |  | 63  | 58  | 54  |
| 6   | 75  | 63  | 55  | 50  |  | 74  | 63  | 55  | 49  |  | 61  | 54  | 49  |  | 59  | 53  | 49  |  | 58  | 52  | 48  |
| 7   | 70  | 58  | 50  | 44  |  | 69  | 57  | 50  | 44  |  | 56  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 43  |
| 8   | 66  | 53  | 45  | 40  |  | 64  | 53  | 45  | 40  |  | 51  | 45  | 40  |  | 50  | 44  | 39  |  | 49  | 43  | 39  |
| 9   | 62  | 49  | 41  | 36  |  | 60  | 49  | 41  | 36  |  | 47  | 41  | 36  |  | 46  | 40  | 36  |  | 45  | 40  | 36  |
| 10  | 58  | 45  | 38  | 33  |  | 57  | 45  | 38  | 33  |  | 44  | 37  | 33  |  | 43  | 37  | 33  |  | 42  | 37  | 33  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 21493 | 21493 | 21493 | 21493 | 21493 |
| 5°  | 28301 | 26157 | 21282 | 17807 | 16700 |
| 10° | 35011 | 30481 | 20601 | 15040 | 13378 |
| 15° | 41151 | 33484 | 19417 | 12695 | 11019 |
| 20° | 45965 | 35500 | 18126 | 10795 | 9182  |
| 25° | 48894 | 36257 | 16665 | 9292  | 7943  |
| 30° | 49995 | 35478 | 15114 | 8074  | 6901  |
| 35° | 49029 | 33429 | 13498 | 7296  | 6181  |
| 40° | 46201 | 30711 | 12185 | 6610  | 5553  |
| 45° | 41746 | 27815 | 10911 | 6016  | 5163  |
| 50° | 33759 | 24462 | 9458  | 5680  | 4742  |
| 55° | 24561 | 21048 | 8137  | 5315  | 4234  |
| 60° | 19082 | 16637 | 7302  | 4857  | 3858  |
| 65° | 14385 | 11981 | 5990  | 4320  | 2893  |
| 70° | 10071 | 8611  | 4431  | 3273  | 1762  |
| 75° | 5856  | 5124  | 2329  | 1597  | 399   |
| 80° | 1190  | 1785  | 595   | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41746 cd/sqm

TEST NUMBER: P1327338

CATALOG NUMBER: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MB\_5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.2   | 4.4       |
| 10°-20°   | 36.4   | 13.0      |
| 20°-30°   | 54.8   | 19.6      |
| 30°-40°   | 61.0   | 21.8      |
| 40°-50°   | 54.0   | 19.3      |
| 50°-60°   | 36.7   | 13.1      |
| 60°-70°   | 19.2   | 6.9       |
| 70°-80°   | 5.5    | 1.9       |
| 80°-90°   | 0.2    | 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°    | 103.4  | 36.9      |
| 0°-40°    | 164.4  | 58.7      |
| 0°-60°    | 255.1  | 91.1      |
| 0°-90°    | 280.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 280.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 125 | 125 | 125 | 125  | 125  |      |
| 5°  | 164 | 151 | 123 | 103  | 97   | 17   |
| 15° | 231 | 188 | 109 | 71   | 62   | 66   |
| 25° | 257 | 191 | 88  | 49   | 42   | 118  |
| 35° | 233 | 159 | 64  | 35   | 29   | 145  |
| 45° | 171 | 114 | 45  | 25   | 21   | 130  |
| 55° | 82  | 70  | 27  | 18   | 14   | 76   |
| 65° | 35  | 29  | 15  | 11   | 7    | 36   |
| 75° | 9   | 8   | 4   | 2    | 1    | 10   |
| 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°    | 124.8 | 124.8 | 124.8 | 124.8 | 124.8 | 124.8 | 124.8 | 124.8 | 124.8 | 124.8 | 124.8 |
| 2.5°  | 143.7 | 143.1 | 142.5 | 142.5 | 141.9 | 141.3 | 140.1 | 140.1 | 139.0 | 137.8 | 136.6 |
| 5°    | 163.7 | 163.7 | 163.7 | 161.9 | 161.9 | 159.6 | 158.4 | 156.0 | 153.7 | 151.3 | 148.4 |
| 7.5°  | 183.7 | 183.7 | 182.0 | 181.4 | 179.6 | 177.2 | 175.5 | 171.9 | 167.8 | 164.3 | 159.6 |
| 10°   | 200.2 | 200.2 | 198.4 | 197.3 | 193.7 | 191.4 | 187.8 | 183.7 | 179.6 | 174.3 | 168.4 |
| 12.5° | 214.9 | 215.5 | 213.2 | 210.8 | 207.3 | 203.7 | 199.0 | 193.7 | 188.4 | 182.5 | 174.9 |
| 15°   | 230.8 | 230.2 | 227.3 | 224.3 | 220.2 | 214.9 | 209.0 | 202.0 | 194.9 | 187.8 | 179.6 |
| 17.5° | 242.6 | 242.0 | 239.1 | 235.5 | 230.2 | 223.8 | 217.3 | 209.0 | 200.8 | 192.0 | 182.0 |
| 20°   | 250.8 | 250.3 | 247.3 | 242.6 | 237.3 | 230.2 | 222.6 | 213.2 | 204.3 | 193.7 | 182.5 |
| 22.5° | 255.6 | 255.0 | 251.4 | 247.3 | 240.8 | 233.2 | 224.9 | 214.9 | 204.9 | 193.7 | 181.4 |
| 25°   | 257.3 | 256.1 | 252.6 | 247.9 | 241.4 | 233.2 | 223.8 | 213.2 | 202.6 | 190.8 | 177.8 |
| 27.5° | 256.1 | 255.0 | 250.8 | 245.5 | 238.5 | 229.1 | 219.6 | 209.0 | 197.8 | 186.1 | 172.5 |
| 30°   | 251.4 | 249.7 | 246.1 | 240.8 | 233.2 | 223.8 | 213.7 | 202.6 | 190.8 | 178.4 | 164.9 |
| 32.5° | 243.2 | 242.0 | 238.5 | 232.6 | 224.9 | 215.5 | 205.5 | 193.7 | 182.0 | 169.6 | 156.0 |
| 35°   | 233.2 | 230.8 | 227.3 | 222.0 | 214.3 | 204.9 | 194.9 | 182.5 | 171.4 | 159.0 | 146.0 |
| 37.5° | 219.0 | 218.5 | 214.3 | 210.2 | 202.6 | 192.5 | 183.1 | 171.4 | 160.2 | 148.4 | 135.4 |
| 40°   | 205.5 | 204.3 | 200.8 | 196.1 | 188.4 | 179.6 | 169.6 | 159.0 | 147.8 | 136.6 | 124.8 |
| 42.5° | 190.2 | 188.4 | 186.1 | 181.4 | 174.3 | 165.5 | 156.0 | 145.4 | 135.4 | 124.8 | 114.2 |
| 45°   | 171.4 | 170.8 | 167.8 | 165.5 | 159.0 | 151.3 | 141.9 | 132.5 | 122.5 | 114.2 | 106.0 |
| 47.5° | 147.2 | 146.6 | 146.0 | 144.3 | 140.7 | 135.4 | 128.4 | 119.5 | 111.9 | 103.6 | 92.4  |
| 50°   | 126.0 | 125.4 | 124.2 | 123.7 | 120.7 | 117.8 | 112.5 | 107.2 | 100.7 | 91.3  | 82.4  |
| 52.5° | 100.1 | 100.7 | 102.5 | 103.0 | 102.5 | 100.1 | 97.7  | 96.0  | 87.1  | 81.3  | 73.0  |
| 55°   | 81.8  | 81.8  | 81.3  | 81.8  | 82.4  | 83.6  | 83.6  | 81.3  | 75.4  | 70.1  | 63.0  |
| 57.5° | 67.1  | 67.1  | 67.1  | 67.1  | 67.1  | 67.7  | 67.7  | 67.1  | 64.2  | 58.9  | 52.4  |
| 60°   | 55.4  | 54.8  | 54.8  | 55.4  | 54.8  | 54.8  | 55.4  | 55.4  | 52.4  | 48.3  | 42.4  |
| 62.5° | 44.8  | 44.8  | 44.8  | 44.2  | 44.2  | 44.8  | 44.8  | 44.2  | 41.8  | 37.7  | 33.6  |
| 65°   | 35.3  | 35.3  | 35.3  | 35.3  | 35.3  | 35.9  | 35.3  | 34.7  | 32.4  | 29.4  | 26.5  |
| 67.5° | 27.1  | 27.1  | 27.7  | 27.1  | 27.7  | 27.7  | 27.7  | 26.5  | 24.7  | 22.4  | 20.6  |
| 70°   | 20.0  | 20.0  | 20.0  | 20.6  | 21.2  | 21.2  | 20.6  | 19.4  | 18.3  | 17.1  | 15.3  |
| 72.5° | 13.5  | 14.1  | 14.1  | 14.1  | 14.7  | 14.7  | 14.1  | 13.5  | 13.0  | 11.8  | 11.2  |
| 75°   | 8.8   | 8.2   | 8.8   | 8.8   | 9.4   | 9.4   | 8.8   | 8.8   | 8.2   | 7.7   | 7.1   |
| 77.5° | 4.1   | 4.1   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.1   | 4.1   |
| 80°   | 1.2   | 1.2   | 1.2   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   |
| 82.5° | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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°    | 124.8 | 124.8 | 124.8 | 124.8 | 124.8  | 124.8 | 124.8  | 124.8 |
| 2.5°  | 135.4 | 133.7 | 131.3 | 124.8 | 118.9  | 113.6 | 110.7  | 110.1 |
| 5°    | 144.9 | 142.5 | 136.6 | 123.1 | 111.9  | 103.0 | 97.7   | 96.6  |
| 7.5°  | 154.9 | 150.2 | 141.9 | 120.7 | 104.8  | 93.6  | 87.7   | 86.0  |
| 10°   | 162.5 | 156.6 | 145.4 | 117.8 | 97.7   | 86.0  | 78.9   | 76.5  |
| 12.5° | 167.8 | 160.8 | 148.4 | 114.2 | 91.9   | 77.7  | 70.7   | 68.3  |
| 15°   | 170.8 | 163.1 | 149.0 | 108.9 | 84.8   | 71.2  | 63.6   | 61.8  |
| 17.5° | 171.9 | 163.1 | 147.8 | 104.8 | 78.3   | 64.8  | 57.7   | 55.4  |
| 20°   | 171.4 | 160.8 | 144.9 | 98.9  | 72.4   | 58.9  | 51.8   | 50.1  |
| 22.5° | 169.0 | 157.2 | 140.1 | 93.0  | 66.5   | 53.0  | 47.1   | 45.9  |
| 25°   | 165.5 | 152.5 | 134.8 | 87.7  | 61.2   | 48.9  | 43.0   | 41.8  |
| 27.5° | 159.6 | 146.6 | 127.8 | 81.8  | 56.5   | 44.8  | 39.5   | 37.7  |
| 30°   | 151.9 | 139.6 | 120.7 | 76.0  | 51.8   | 40.6  | 35.9   | 34.7  |
| 32.5° | 143.7 | 131.3 | 113.6 | 70.1  | 47.7   | 37.7  | 33.0   | 31.8  |
| 35°   | 134.3 | 122.5 | 104.8 | 64.2  | 43.6   | 34.7  | 30.0   | 29.4  |
| 37.5° | 124.8 | 113.1 | 97.2  | 59.5  | 40.0   | 31.8  | 27.7   | 27.1  |
| 40°   | 114.2 | 104.8 | 93.0  | 54.2  | 37.1   | 29.4  | 25.9   | 24.7  |
| 42.5° | 107.8 | 94.8  | 80.1  | 49.5  | 34.2   | 27.1  | 23.6   | 23.0  |
| 45°   | 93.6  | 84.2  | 72.4  | 44.8  | 31.2   | 24.7  | 21.8   | 21.2  |
| 47.5° | 84.2  | 76.0  | 64.8  | 40.0  | 28.9   | 23.0  | 20.0   | 19.4  |
| 50°   | 74.8  | 67.1  | 56.5  | 35.3  | 26.5   | 21.2  | 18.3   | 17.7  |
| 52.5° | 65.4  | 57.7  | 48.3  | 31.2  | 23.6   | 19.4  | 16.5   | 15.9  |
| 55°   | 55.9  | 48.9  | 40.0  | 27.1  | 21.2   | 17.7  | 15.3   | 14.1  |
| 57.5° | 45.9  | 40.0  | 34.2  | 24.1  | 18.8   | 15.9  | 13.5   | 12.4  |
| 60°   | 37.1  | 33.6  | 28.9  | 21.2  | 16.5   | 14.1  | 11.8   | 11.2  |
| 62.5° | 30.0  | 27.1  | 24.1  | 18.3  | 14.7   | 12.4  | 10.6   | 8.8   |
| 65°   | 24.1  | 22.4  | 20.0  | 14.7  | 12.4   | 10.6  | 8.8    | 7.1   |
| 67.5° | 18.8  | 17.7  | 15.9  | 12.4  | 10.0   | 8.8   | 6.5    | 5.3   |
| 70°   | 14.7  | 13.5  | 12.4  | 8.8   | 7.7    | 6.5   | 4.7    | 3.5   |
| 72.5° | 10.6  | 9.4   | 8.8   | 6.5   | 5.3    | 4.7   | 2.9    | 1.8   |
| 75°   | 6.5   | 6.5   | 5.3   | 3.5   | 2.9    | 2.4   | 1.2    | 0.6   |
| 77.5° | 3.5   | 3.5   | 2.9   | 1.8   | 1.8    | 0.6   | 0.0    | 0.0   |
| 80°   | 1.8   | 1.2   | 1.2   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 82.5° | 0.6   | 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)