

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: P1327337

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MB\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327337  
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\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,  
3LSQCLSWWR 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

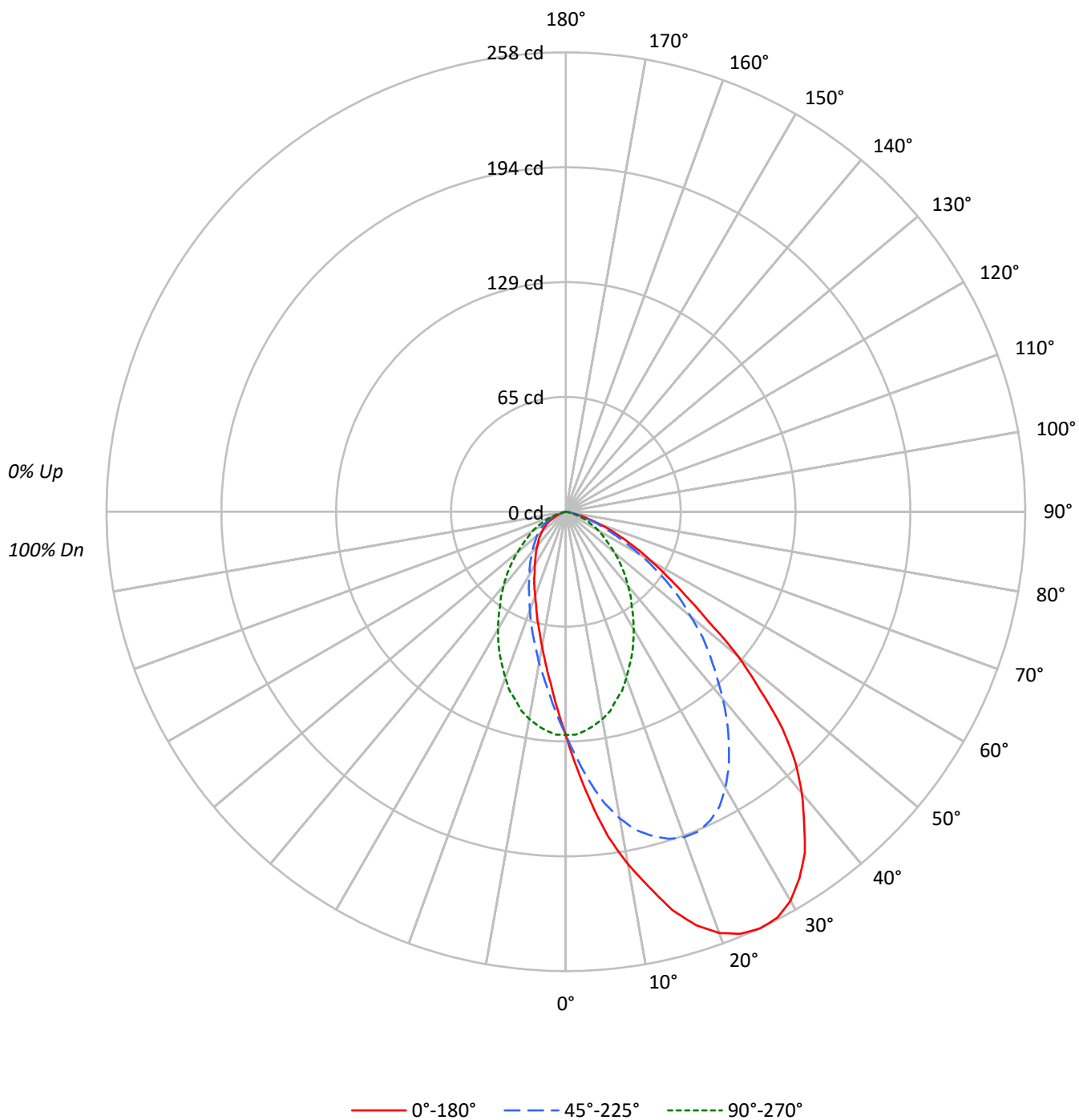
Lumens per Lamp: N/A  
Luminaire Lumens: 281.0 lumens  
Efficiency: N/A  
Efficacy: 31.2 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P1327337

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### Luminous Intensity Polar Plot



TEST NUMBER: P1327337

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

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 21579 | 21579 | 21579 | 21579 | 21579 |
| 5°  | 28404 | 26261 | 21351 | 17876 | 16752 |
| 10° | 35133 | 30586 | 20671 | 15092 | 13431 |
| 15° | 41294 | 33609 | 19488 | 12748 | 11054 |
| 20° | 46130 | 35629 | 18199 | 10832 | 9200  |
| 25° | 49065 | 36390 | 16722 | 9311  | 7981  |
| 30° | 50174 | 35617 | 15154 | 8114  | 6940  |
| 35° | 49197 | 33555 | 13540 | 7338  | 6202  |
| 40° | 46358 | 30823 | 12230 | 6632  | 5576  |
| 45° | 41892 | 27912 | 10936 | 6040  | 5188  |
| 50° | 33893 | 24542 | 9512  | 5707  | 4742  |
| 55° | 24651 | 21108 | 8167  | 5315  | 4264  |
| 60° | 19117 | 16706 | 7337  | 4891  | 3858  |
| 65° | 14467 | 12022 | 6031  | 4320  | 2893  |
| 70° | 10121 | 8611  | 4482  | 3273  | 1762  |
| 75° | 5922  | 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: 41892 cd/sqm

TEST NUMBER: P1327337

CATALOG NUMBER: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MB\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.2   | 4.4       |
| 10°-20°   | 36.5   | 13.0      |
| 20°-30°   | 55.0   | 19.6      |
| 30°-40°   | 61.2   | 21.8      |
| 40°-50°   | 54.2   | 19.3      |
| 50°-60°   | 36.8   | 13.1      |
| 60°-70°   | 19.3   | 6.9       |
| 70°-80°   | 5.5    | 2.0       |
| 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°    | 103.8  | 36.9      |
| 0°-40°    | 165.0  | 58.7      |
| 0°-60°    | 256.1  | 91.1      |
| 0°-90°    | 281.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 281.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 125 | 125 | 125 | 125  | 125  |      |
| 5°  | 164 | 152 | 124 | 103  | 97   | 17   |
| 15° | 232 | 188 | 109 | 72   | 62   | 66   |
| 25° | 258 | 192 | 88  | 49   | 42   | 118  |
| 35° | 234 | 160 | 64  | 35   | 30   | 145  |
| 45° | 172 | 115 | 45  | 25   | 21   | 130  |
| 55° | 82  | 70  | 27  | 18   | 14   | 76   |
| 65° | 36  | 30  | 15  | 11   | 7    | 36   |
| 75° | 9   | 8   | 4   | 2    | 1    | 10   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1327337

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 125.3 | 125.3 | 125.3 | 125.3 | 125.3 | 125.3 | 125.3 | 125.3 | 125.3 | 125.3 | 125.3 |
| 2.5°  | 144.2 | 143.6 | 143.0 | 143.0 | 142.4 | 141.8 | 140.6 | 140.6 | 139.5 | 138.3 | 137.1 |
| 5°    | 164.3 | 164.3 | 164.3 | 162.5 | 162.5 | 160.1 | 159.0 | 156.6 | 154.2 | 151.9 | 148.9 |
| 7.5°  | 184.4 | 184.4 | 182.6 | 182.0 | 180.2 | 177.9 | 176.1 | 172.6 | 168.4 | 164.9 | 160.1 |
| 10°   | 200.9 | 200.9 | 199.1 | 198.0 | 194.4 | 192.1 | 188.5 | 184.4 | 180.2 | 174.9 | 169.0 |
| 12.5° | 215.7 | 216.3 | 213.9 | 211.6 | 208.0 | 204.5 | 199.7 | 194.4 | 189.1 | 183.2 | 175.5 |
| 15°   | 231.6 | 231.1 | 228.1 | 225.1 | 221.0 | 215.7 | 209.8 | 202.7 | 195.6 | 188.5 | 180.2 |
| 17.5° | 243.5 | 242.9 | 239.9 | 236.4 | 231.1 | 224.6 | 218.1 | 209.8 | 201.5 | 192.6 | 182.6 |
| 20°   | 251.7 | 251.1 | 248.2 | 243.5 | 238.1 | 231.1 | 223.4 | 213.9 | 205.1 | 194.4 | 183.2 |
| 22.5° | 256.5 | 255.9 | 252.3 | 248.2 | 241.7 | 234.0 | 225.7 | 215.7 | 205.6 | 194.4 | 182.0 |
| 25°   | 258.2 | 257.1 | 253.5 | 248.8 | 242.3 | 234.0 | 224.6 | 213.9 | 203.3 | 191.5 | 178.5 |
| 27.5° | 257.1 | 255.9 | 251.7 | 246.4 | 239.3 | 229.9 | 220.4 | 209.8 | 198.6 | 186.7 | 173.1 |
| 30°   | 252.3 | 250.6 | 247.0 | 241.7 | 234.0 | 224.6 | 214.5 | 203.3 | 191.5 | 179.1 | 165.5 |
| 32.5° | 244.1 | 242.9 | 239.3 | 233.4 | 225.7 | 216.3 | 206.2 | 194.4 | 182.6 | 170.2 | 156.6 |
| 35°   | 234.0 | 231.6 | 228.1 | 222.8 | 215.1 | 205.6 | 195.6 | 183.2 | 172.0 | 159.6 | 146.6 |
| 37.5° | 219.8 | 219.2 | 215.1 | 211.0 | 203.3 | 193.2 | 183.8 | 172.0 | 160.7 | 148.9 | 135.9 |
| 40°   | 206.2 | 205.1 | 201.5 | 196.8 | 189.1 | 180.2 | 170.2 | 159.6 | 148.3 | 137.1 | 125.3 |
| 42.5° | 190.9 | 189.1 | 186.7 | 182.0 | 174.9 | 166.1 | 156.6 | 146.0 | 135.9 | 125.3 | 114.6 |
| 45°   | 172.0 | 171.4 | 168.4 | 166.1 | 159.6 | 151.9 | 142.4 | 133.0 | 122.9 | 114.6 | 106.4 |
| 47.5° | 147.7 | 147.1 | 146.6 | 144.8 | 141.2 | 135.9 | 128.8 | 120.0 | 112.3 | 104.0 | 92.8  |
| 50°   | 126.5 | 125.9 | 124.7 | 124.1 | 121.1 | 118.2 | 112.9 | 107.6 | 101.1 | 91.6  | 82.7  |
| 52.5° | 100.5 | 101.1 | 102.8 | 103.4 | 102.8 | 100.5 | 98.1  | 96.3  | 87.5  | 81.5  | 73.3  |
| 55°   | 82.1  | 82.1  | 81.5  | 82.1  | 82.7  | 83.9  | 83.9  | 81.5  | 75.6  | 70.3  | 63.2  |
| 57.5° | 67.4  | 67.4  | 67.4  | 67.4  | 67.4  | 68.0  | 68.0  | 67.4  | 64.4  | 59.1  | 52.6  |
| 60°   | 55.5  | 55.0  | 55.0  | 55.5  | 55.0  | 55.0  | 55.5  | 55.5  | 52.6  | 48.5  | 42.5  |
| 62.5° | 44.9  | 44.9  | 44.9  | 44.3  | 44.3  | 44.9  | 44.9  | 44.3  | 42.0  | 37.8  | 33.7  |
| 65°   | 35.5  | 35.5  | 35.5  | 35.5  | 35.5  | 36.0  | 35.5  | 34.9  | 32.5  | 29.5  | 26.6  |
| 67.5° | 27.2  | 27.2  | 27.8  | 27.2  | 27.8  | 27.8  | 27.8  | 26.6  | 24.8  | 22.5  | 20.7  |
| 70°   | 20.1  | 20.1  | 20.1  | 20.7  | 21.3  | 21.3  | 20.7  | 19.5  | 18.3  | 17.1  | 15.4  |
| 72.5° | 13.6  | 14.2  | 14.2  | 14.2  | 14.8  | 14.8  | 14.2  | 13.6  | 13.0  | 11.8  | 11.2  |
| 75°   | 8.9   | 8.3   | 8.9   | 8.9   | 9.5   | 9.5   | 8.9   | 8.9   | 8.3   | 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°    | 125.3 | 125.3 | 125.3 | 125.3 | 125.3  | 125.3 | 125.3  | 125.3 |
| 2.5°  | 135.9 | 134.1 | 131.8 | 125.3 | 119.4  | 114.1 | 111.1  | 110.5 |
| 5°    | 145.4 | 143.0 | 137.1 | 123.5 | 112.3  | 103.4 | 98.1   | 96.9  |
| 7.5°  | 155.4 | 150.7 | 142.4 | 121.1 | 105.2  | 94.0  | 88.0   | 86.3  |
| 10°   | 163.1 | 157.2 | 146.0 | 118.2 | 98.1   | 86.3  | 79.2   | 76.8  |
| 12.5° | 168.4 | 161.3 | 148.9 | 114.6 | 92.2   | 78.0  | 70.9   | 68.5  |
| 15°   | 171.4 | 163.7 | 149.5 | 109.3 | 85.1   | 71.5  | 63.8   | 62.0  |
| 17.5° | 172.6 | 163.7 | 148.3 | 105.2 | 78.6   | 65.0  | 57.9   | 55.5  |
| 20°   | 172.0 | 161.3 | 145.4 | 99.3  | 72.7   | 59.1  | 52.0   | 50.2  |
| 22.5° | 169.6 | 157.8 | 140.6 | 93.4  | 66.8   | 53.2  | 47.3   | 46.1  |
| 25°   | 166.1 | 153.1 | 135.3 | 88.0  | 61.5   | 49.0  | 43.1   | 42.0  |
| 27.5° | 160.1 | 147.1 | 128.2 | 82.1  | 56.7   | 44.9  | 39.6   | 37.8  |
| 30°   | 152.5 | 140.1 | 121.1 | 76.2  | 52.0   | 40.8  | 36.0   | 34.9  |
| 32.5° | 144.2 | 131.8 | 114.1 | 70.3  | 47.9   | 37.8  | 33.1   | 31.9  |
| 35°   | 134.7 | 122.9 | 105.2 | 64.4  | 43.7   | 34.9  | 30.1   | 29.5  |
| 37.5° | 125.3 | 113.5 | 97.5  | 59.7  | 40.2   | 31.9  | 27.8   | 27.2  |
| 40°   | 114.6 | 105.2 | 93.4  | 54.4  | 37.2   | 29.5  | 26.0   | 24.8  |
| 42.5° | 108.1 | 95.1  | 80.4  | 49.6  | 34.3   | 27.2  | 23.6   | 23.0  |
| 45°   | 94.0  | 84.5  | 72.7  | 44.9  | 31.3   | 24.8  | 21.9   | 21.3  |
| 47.5° | 84.5  | 76.2  | 65.0  | 40.2  | 29.0   | 23.0  | 20.1   | 19.5  |
| 50°   | 75.0  | 67.4  | 56.7  | 35.5  | 26.6   | 21.3  | 18.3   | 17.7  |
| 52.5° | 65.6  | 57.9  | 48.5  | 31.3  | 23.6   | 19.5  | 16.5   | 16.0  |
| 55°   | 56.1  | 49.0  | 40.2  | 27.2  | 21.3   | 17.7  | 15.4   | 14.2  |
| 57.5° | 46.1  | 40.2  | 34.3  | 24.2  | 18.9   | 16.0  | 13.6   | 12.4  |
| 60°   | 37.2  | 33.7  | 29.0  | 21.3  | 16.5   | 14.2  | 11.8   | 11.2  |
| 62.5° | 30.1  | 27.2  | 24.2  | 18.3  | 14.8   | 12.4  | 10.6   | 8.9   |
| 65°   | 24.2  | 22.5  | 20.1  | 14.8  | 12.4   | 10.6  | 8.9    | 7.1   |
| 67.5° | 18.9  | 17.7  | 16.0  | 12.4  | 10.0   | 8.9   | 6.5    | 5.3   |
| 70°   | 14.8  | 13.6  | 12.4  | 8.9   | 7.7    | 6.5   | 4.7    | 3.5   |
| 72.5° | 10.6  | 9.5   | 8.9   | 6.5   | 5.3    | 4.7   | 3.0    | 1.8   |
| 75°   | 6.5   | 6.5   | 5.3   | 3.5   | 3.0    | 2.4   | 1.2    | 0.6   |
| 77.5° | 3.5   | 3.5   | 3.0   | 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)