

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: P1313766

Luminaire Tested: LDSQA3D13R709727DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313766  
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: LDSQA3D13R709727DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

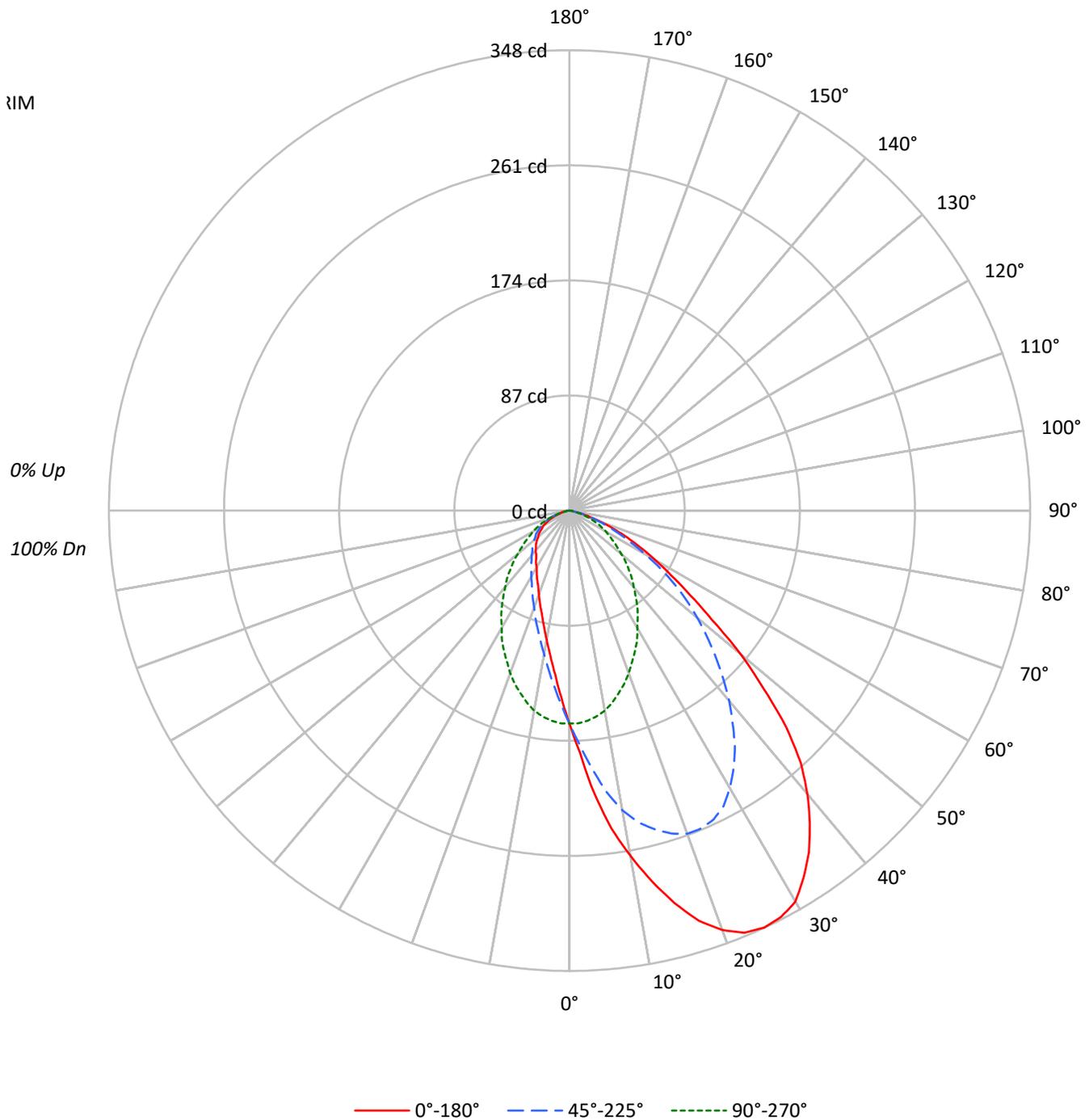
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 393.0 lumens  
Efficiency: N/A  
Efficacy: 26.9 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): 14.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 95  | 97  | 95  | 93  | 93  | 91  | 90  | 93  | 91  | 90  | 88  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 84  | 81  | 78  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 72  | 81  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 75  | 71  | 68  | 66  |
| 4   | 87  | 76  | 68  | 62  | 85  | 75  | 68  | 62  | 73  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 68  | 64  | 60  | 58  |
| 5   | 80  | 69  | 61  | 55  | 78  | 68  | 60  | 54  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 62  | 57  | 53  | 51  |
| 6   | 75  | 62  | 54  | 48  | 73  | 62  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 57  | 51  | 47  | 45  |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 52  | 46  | 42  | 40  |
| 8   | 65  | 52  | 44  | 39  | 63  | 52  | 44  | 39  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 48  | 42  | 38  | 36  |
| 9   | 61  | 48  | 40  | 35  | 59  | 48  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 44  | 39  | 35  | 33  |
| 10  | 57  | 44  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 41  | 36  | 32  | 41  | 36  | 32  | 30  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 27711 | 27711 | 27711 | 27711 | 27711 |
| 5°  | 37083 | 33850 | 27540 | 23045 | 21489 |
| 10° | 46326 | 40222 | 26861 | 19324 | 17331 |
| 15° | 54773 | 44485 | 25497 | 16510 | 14353 |
| 20° | 61819 | 47652 | 23972 | 14295 | 12371 |
| 25° | 66091 | 48951 | 22233 | 12656 | 10965 |
| 30° | 67873 | 48165 | 20364 | 11475 | 9864  |
| 35° | 66290 | 45791 | 18796 | 10596 | 9230  |
| 40° | 62860 | 42199 | 16996 | 10049 | 8948  |
| 45° | 56408 | 37995 | 15442 | 9694  | 8719  |
| 50° | 45280 | 33759 | 13718 | 9351  | 8279  |
| 55° | 33419 | 29035 | 12191 | 9278  | 8047  |
| 60° | 25765 | 22664 | 10919 | 8956  | 7853  |
| 65° | 19520 | 16871 | 9617  | 8273  | 6968  |
| 70° | 13092 | 11884 | 7352  | 7352  | 5740  |
| 75° | 7053  | 7053  | 4858  | 4858  | 4325  |
| 80° | 1587  | 3273  | 2380  | 3273  | 4066  |
| 85° | 0     | 1581  | 1581  | 3162  | 3162  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 56408 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.9   | 4.0       |
| 10°-20°   | 48.2   | 12.3      |
| 20°-30°   | 74.3   | 18.9      |
| 30°-40°   | 84.4   | 21.5      |
| 40°-50°   | 76.3   | 19.4      |
| 50°-60°   | 53.4   | 13.6      |
| 60°-70°   | 29.3   | 7.5       |
| 70°-80°   | 9.8    | 2.5       |
| 80°-90°   | 1.3    | 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°    | 138.5  | 35.2      |
| 0°-40°    | 222.8  | 56.7      |
| 0°-60°    | 352.5  | 89.7      |
| 0°-90°    | 393.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 393.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 161 | 161 | 161 | 161  | 161  |      |
| 5°  | 214 | 196 | 159 | 133  | 124  | 22   |
| 15° | 307 | 250 | 143 | 93   | 80   | 88   |
| 25° | 348 | 258 | 117 | 67   | 58   | 160  |
| 35° | 315 | 218 | 89  | 50   | 44   | 196  |
| 45° | 232 | 156 | 63  | 40   | 36   | 175  |
| 55° | 111 | 97  | 41  | 31   | 27   | 102  |
| 65° | 48  | 41  | 24  | 20   | 17   | 48   |
| 75° | 11  | 11  | 7   | 7    | 6    | 12   |
| 85° | 0   | 1   | 1   | 2    | 2    | 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°    | 160.9 | 160.9 | 160.9 | 160.9 | 160.9 | 160.9 | 160.9 | 160.9 | 160.9 | 160.9 | 160.9 |
| 2.5°  | 183.7 | 185.3 | 186.1 | 184.5 | 183.7 | 182.8 | 181.2 | 180.4 | 178.8 | 177.2 | 176.3 |
| 5°    | 214.5 | 214.5 | 214.5 | 212.9 | 210.5 | 208.9 | 205.6 | 203.2 | 199.1 | 195.8 | 192.6 |
| 7.5°  | 242.2 | 242.2 | 241.4 | 238.9 | 237.3 | 233.2 | 229.2 | 225.9 | 219.4 | 214.5 | 208.0 |
| 10°   | 264.9 | 264.9 | 264.1 | 260.0 | 257.6 | 252.7 | 248.7 | 243.0 | 236.5 | 230.0 | 222.7 |
| 12.5° | 286.9 | 286.9 | 283.6 | 280.4 | 275.5 | 269.0 | 263.3 | 257.6 | 248.7 | 241.4 | 232.4 |
| 15°   | 307.2 | 307.2 | 305.6 | 299.9 | 293.4 | 286.1 | 277.9 | 269.8 | 259.2 | 249.5 | 239.7 |
| 17.5° | 325.1 | 324.2 | 321.8 | 315.3 | 308.8 | 299.9 | 290.1 | 280.4 | 267.4 | 256.0 | 243.8 |
| 20°   | 337.3 | 337.3 | 334.0 | 326.7 | 319.4 | 309.6 | 299.1 | 287.7 | 273.9 | 260.0 | 245.4 |
| 22.5° | 345.4 | 344.6 | 341.3 | 334.0 | 325.1 | 315.3 | 303.1 | 290.9 | 275.5 | 260.0 | 244.6 |
| 25°   | 347.8 | 347.0 | 343.8 | 335.6 | 326.7 | 316.1 | 303.1 | 290.1 | 273.9 | 257.6 | 240.5 |
| 27.5° | 346.2 | 345.4 | 342.1 | 333.2 | 324.2 | 312.1 | 299.1 | 285.2 | 269.0 | 251.9 | 234.9 |
| 30°   | 341.3 | 338.9 | 335.6 | 327.5 | 317.7 | 305.6 | 291.7 | 276.3 | 260.0 | 242.2 | 225.1 |
| 32.5° | 329.1 | 329.1 | 325.1 | 316.9 | 307.2 | 294.2 | 280.4 | 265.7 | 247.9 | 230.8 | 212.9 |
| 35°   | 315.3 | 314.5 | 311.2 | 302.3 | 293.4 | 281.2 | 267.4 | 251.9 | 234.9 | 217.8 | 200.7 |
| 37.5° | 298.2 | 297.4 | 294.2 | 286.1 | 276.3 | 264.9 | 250.3 | 235.7 | 219.4 | 202.4 | 186.9 |
| 40°   | 279.6 | 277.9 | 273.9 | 267.4 | 259.2 | 246.2 | 233.2 | 218.6 | 203.2 | 187.7 | 172.3 |
| 42.5° | 258.4 | 256.8 | 253.5 | 248.7 | 238.9 | 227.5 | 215.4 | 201.5 | 186.9 | 171.5 | 160.1 |
| 45°   | 231.6 | 231.6 | 230.0 | 225.1 | 217.8 | 208.9 | 195.8 | 183.7 | 169.8 | 156.0 | 143.8 |
| 47.5° | 198.3 | 199.9 | 199.1 | 196.7 | 193.4 | 185.3 | 176.3 | 165.8 | 152.8 | 140.6 | 129.2 |
| 50°   | 169.0 | 169.8 | 170.7 | 169.0 | 166.6 | 160.9 | 155.2 | 148.7 | 137.3 | 126.0 | 115.4 |
| 52.5° | 135.7 | 138.2 | 138.2 | 139.0 | 139.0 | 137.3 | 135.7 | 128.4 | 122.7 | 111.3 | 101.6 |
| 55°   | 111.3 | 111.3 | 111.3 | 113.0 | 113.8 | 114.6 | 113.0 | 111.3 | 104.8 | 96.7  | 87.8  |
| 57.5° | 91.0  | 91.0  | 92.6  | 91.8  | 91.8  | 93.5  | 93.5  | 92.6  | 88.6  | 81.3  | 73.1  |
| 60°   | 74.8  | 74.8  | 74.8  | 74.8  | 75.6  | 75.6  | 75.6  | 75.6  | 72.3  | 65.8  | 59.3  |
| 62.5° | 60.1  | 60.1  | 60.1  | 60.9  | 60.9  | 60.9  | 61.8  | 60.9  | 57.7  | 52.8  | 47.1  |
| 65°   | 47.9  | 47.1  | 47.9  | 47.9  | 48.8  | 48.8  | 48.8  | 47.9  | 44.7  | 41.4  | 37.4  |
| 67.5° | 35.8  | 36.6  | 36.6  | 36.6  | 37.4  | 38.2  | 37.4  | 36.6  | 34.1  | 30.9  | 29.3  |
| 70°   | 26.0  | 26.8  | 26.8  | 26.8  | 27.6  | 28.4  | 27.6  | 26.8  | 25.2  | 23.6  | 21.9  |
| 72.5° | 17.1  | 17.9  | 17.9  | 18.7  | 19.5  | 19.5  | 18.7  | 18.7  | 17.9  | 16.3  | 15.4  |
| 75°   | 10.6  | 10.6  | 11.4  | 11.4  | 12.2  | 12.2  | 12.2  | 11.4  | 11.4  | 10.6  | 10.6  |
| 77.5° | 4.9   | 4.9   | 5.7   | 5.7   | 5.7   | 6.5   | 6.5   | 6.5   | 6.5   | 6.5   | 5.7   |
| 80°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.4   | 2.4   | 2.4   | 3.3   | 3.3   | 3.3   |
| 82.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.6   | 1.6   | 1.6   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   | 0.8   | 0.8   |
| 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°    | 160.9 | 160.9 | 160.9 | 160.9 | 160.9  | 160.9 | 160.9  | 160.9 |
| 2.5°  | 174.7 | 172.3 | 169.0 | 160.9 | 152.8  | 146.3 | 142.2  | 141.4 |
| 5°    | 188.5 | 184.5 | 177.2 | 159.3 | 144.7  | 133.3 | 126.8  | 124.3 |
| 7.5°  | 202.4 | 195.0 | 184.5 | 156.8 | 134.9  | 121.1 | 113.8  | 110.5 |
| 10°   | 213.7 | 204.8 | 191.0 | 153.6 | 126.8  | 110.5 | 101.6  | 99.1  |
| 12.5° | 222.7 | 212.1 | 195.0 | 148.7 | 118.6  | 100.8 | 91.8   | 89.4  |
| 15°   | 228.4 | 217.0 | 197.5 | 143.0 | 110.5  | 92.6  | 83.7   | 80.5  |
| 17.5° | 230.8 | 217.0 | 196.7 | 137.3 | 103.2  | 85.3  | 76.4   | 74.0  |
| 20°   | 230.8 | 215.4 | 194.2 | 130.8 | 95.9   | 78.0  | 69.9   | 67.5  |
| 22.5° | 228.4 | 212.1 | 188.5 | 123.5 | 89.4   | 72.3  | 64.2   | 61.8  |
| 25°   | 223.5 | 205.6 | 182.0 | 117.0 | 82.9   | 66.6  | 59.3   | 57.7  |
| 27.5° | 216.2 | 198.3 | 173.9 | 110.5 | 77.2   | 61.8  | 55.3   | 53.6  |
| 30°   | 207.2 | 189.3 | 165.0 | 102.4 | 71.5   | 57.7  | 52.0   | 49.6  |
| 32.5° | 195.8 | 178.8 | 155.2 | 95.9  | 66.6   | 53.6  | 48.8   | 47.1  |
| 35°   | 183.7 | 168.2 | 144.7 | 89.4  | 61.8   | 50.4  | 45.5   | 43.9  |
| 37.5° | 171.5 | 155.2 | 135.7 | 82.1  | 57.7   | 47.1  | 43.1   | 41.4  |
| 40°   | 158.5 | 146.3 | 126.0 | 75.6  | 54.4   | 44.7  | 40.6   | 39.8  |
| 42.5° | 145.5 | 132.5 | 112.1 | 69.9  | 50.4   | 41.4  | 38.2   | 37.4  |
| 45°   | 130.0 | 117.8 | 101.6 | 63.4  | 47.1   | 39.8  | 36.6   | 35.8  |
| 47.5° | 117.0 | 105.6 | 91.0  | 57.7  | 43.9   | 37.4  | 34.1   | 33.3  |
| 50°   | 104.8 | 93.5  | 79.6  | 51.2  | 40.6   | 34.9  | 32.5   | 30.9  |
| 52.5° | 91.0  | 81.3  | 69.1  | 45.5  | 37.4   | 32.5  | 30.1   | 29.3  |
| 55°   | 78.8  | 69.1  | 57.7  | 40.6  | 34.1   | 30.9  | 27.6   | 26.8  |
| 57.5° | 65.0  | 56.9  | 48.8  | 35.8  | 30.9   | 27.6  | 26.0   | 24.4  |
| 60°   | 52.8  | 47.1  | 41.4  | 31.7  | 27.6   | 26.0  | 23.6   | 22.8  |
| 62.5° | 43.1  | 39.0  | 34.9  | 27.6  | 24.4   | 22.8  | 21.1   | 19.5  |
| 65°   | 34.1  | 31.7  | 28.4  | 23.6  | 21.1   | 20.3  | 18.7   | 17.1  |
| 67.5° | 26.8  | 25.2  | 22.8  | 18.7  | 17.9   | 17.1  | 15.4   | 13.8  |
| 70°   | 20.3  | 19.5  | 17.9  | 14.6  | 13.8   | 14.6  | 13.0   | 11.4  |
| 72.5° | 14.6  | 13.8  | 13.0  | 10.6  | 10.6   | 10.6  | 9.8    | 8.1   |
| 75°   | 9.8   | 8.9   | 8.1   | 7.3   | 7.3    | 7.3   | 7.3    | 6.5   |
| 77.5° | 5.7   | 5.7   | 4.9   | 4.1   | 4.9    | 4.9   | 5.7    | 5.7   |
| 80°   | 2.4   | 2.4   | 2.4   | 2.4   | 3.3    | 3.3   | 4.1    | 4.1   |
| 82.5° | 1.6   | 1.6   | 1.6   | 1.6   | 2.4    | 2.4   | 2.4    | 2.4   |
| 85°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 1.6   | 1.6    | 1.6   |
| 87.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.8   | 0.8    | 0.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)