

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: P1317964

Luminaire Tested: LDSQA3D02R509830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R509830DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

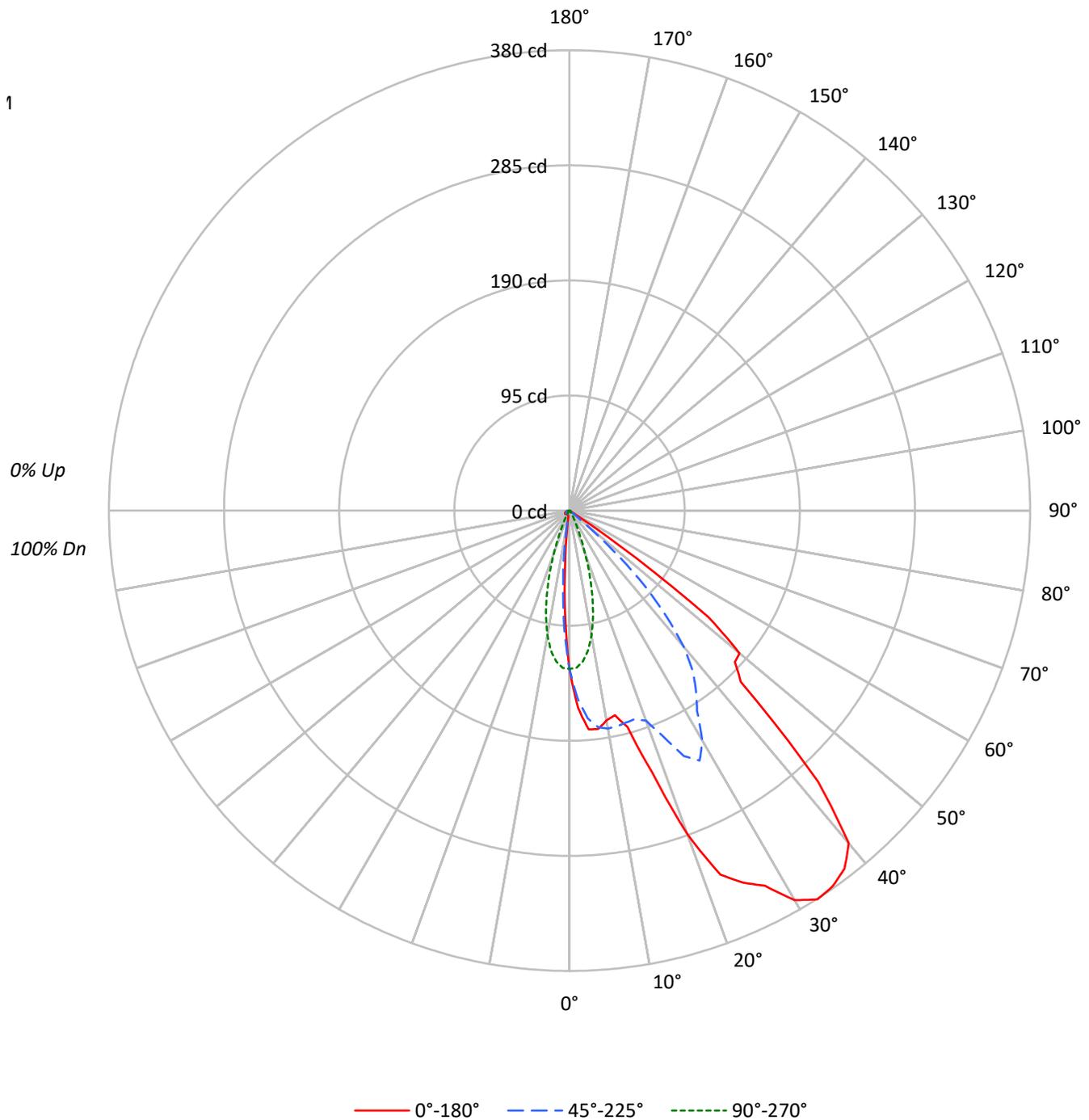
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 203.0 lumens  
Efficiency: N/A  
Efficacy: 56.4 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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: P1317964

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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   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 95  | 94  | 92  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 81  | 77  | 74  | 73  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 68  | 74  | 70  | 67  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 68  | 64  | 60  | 58  |
| 6   | 79  | 68  | 61  | 56  | 78  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 63  | 58  | 54  | 53  |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 58  | 53  | 49  | 47  |
| 8   | 69  | 58  | 51  | 45  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 49  | 45  | 43  |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 50  | 45  | 41  | 39  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 37  | 46  | 41  | 37  | 46  | 41  | 37  | 36  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 22475 | 22475 | 22475 | 22475 | 22475 |
| 5°  | 31343 | 29735 | 21610 | 10390 | 6742  |
| 10° | 30761 | 31950 | 18257 | 2186  | 944   |
| 15° | 32985 | 32290 | 12909 | 767   | 731   |
| 20° | 52105 | 33814 | 6818  | 660   | 696   |
| 25° | 64381 | 42471 | 2717  | 608   | 684   |
| 30° | 73819 | 43552 | 1094  | 597   | 716   |
| 35° | 79578 | 38223 | 484   | 631   | 799   |
| 40° | 80553 | 32914 | 360   | 719   | 877   |
| 45° | 48688 | 21336 | 341   | 779   | 999   |
| 50° | 49058 | 3697  | 375   | 911   | 1152  |
| 55° | 14503 | 210   | 420   | 1021  | 1291  |
| 60° | 241   | 241   | 448   | 1102  | 1412  |
| 65° | 204   | 204   | 448   | 1182  | 1549  |
| 70° | 252   | 252   | 453   | 1259  | 1712  |
| 75° | 266   | 266   | 466   | 1331  | 1797  |
| 80° | 198   | 397   | 496   | 1289  | 1984  |
| 85° | 395   | 790   | 790   | 1383  | 1778  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 55605 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.6   | 5.2       |
| 10°-20°   | 26.2   | 12.9      |
| 20°-30°   | 49.1   | 24.2      |
| 30°-40°   | 58.7   | 28.9      |
| 40°-50°   | 42.1   | 20.7      |
| 50°-60°   | 13.0   | 6.4       |
| 60°-70°   | 1.7    | 0.8       |
| 70°-80°   | 1.2    | 0.6       |
| 80°-90°   | 0.5    | 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°    | 85.9   | 42.3      |
| 0°-40°    | 144.5  | 71.2      |
| 0°-60°    | 199.6  | 98.3      |
| 0°-90°    | 203.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 203.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 130 | 130 | 130 | 130  | 130  |      |
| 5°  | 181 | 172 | 125 | 60   | 39   | 17   |
| 15° | 185 | 181 | 72  | 4    | 4    | 59   |
| 25° | 339 | 224 | 14  | 3    | 4    | 156  |
| 35° | 378 | 182 | 2   | 3    | 4    | 235  |
| 45° | 200 | 88  | 1   | 3    | 4    | 184  |
| 55° | 48  | 1   | 1   | 3    | 4    | 62   |
| 65° | 0   | 0   | 1   | 3    | 4    | 1    |
| 75° | 0   | 0   | 1   | 2    | 3    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 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°    | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 | 130.5 |
| 2.5°  | 163.2 | 163.6 | 164.1 | 162.7 | 161.8 | 161.1 | 159.8 | 159.5 | 156.4 | 155.2 | 153.9 |
| 5°    | 181.3 | 180.9 | 181.3 | 180.7 | 180.4 | 179.3 | 178.2 | 176.5 | 174.5 | 172.0 | 169.1 |
| 7.5°  | 181.8 | 181.5 | 182.2 | 182.2 | 182.9 | 182.9 | 182.9 | 183.1 | 182.0 | 180.2 | 177.7 |
| 10°   | 175.9 | 175.9 | 176.6 | 176.3 | 177.5 | 178.1 | 179.3 | 181.5 | 182.5 | 182.7 | 182.0 |
| 12.5° | 172.9 | 172.9 | 173.1 | 172.3 | 172.7 | 173.2 | 174.7 | 177.2 | 179.7 | 182.2 | 183.6 |
| 15°   | 185.0 | 185.4 | 182.9 | 179.3 | 176.6 | 173.8 | 172.9 | 174.5 | 177.2 | 181.1 | 184.3 |
| 17.5° | 226.3 | 226.9 | 224.2 | 215.6 | 207.4 | 195.6 | 185.0 | 179.9 | 177.0 | 180.2 | 184.5 |
| 20°   | 284.3 | 282.3 | 277.7 | 268.5 | 256.6 | 238.3 | 221.9 | 205.2 | 189.3 | 184.5 | 185.9 |
| 22.5° | 325.2 | 324.5 | 320.7 | 310.5 | 300.2 | 283.2 | 262.3 | 239.0 | 216.0 | 201.3 | 193.6 |
| 25°   | 338.8 | 338.3 | 334.9 | 328.8 | 323.1 | 310.2 | 291.4 | 268.0 | 243.9 | 223.5 | 204.2 |
| 27.5° | 349.0 | 348.3 | 342.9 | 336.1 | 330.2 | 317.2 | 300.0 | 282.3 | 260.1 | 232.6 | 202.9 |
| 30°   | 371.2 | 369.2 | 361.7 | 349.5 | 338.3 | 320.2 | 301.2 | 279.3 | 249.2 | 219.0 | 190.0 |
| 32.5° | 380.5 | 379.4 | 372.9 | 363.1 | 350.8 | 327.2 | 298.4 | 261.6 | 222.0 | 195.9 | 174.8 |
| 35°   | 378.5 | 376.9 | 370.3 | 359.0 | 344.0 | 321.3 | 282.8 | 232.2 | 200.1 | 181.8 | 158.0 |
| 37.5° | 372.6 | 370.3 | 362.4 | 349.2 | 330.9 | 301.2 | 251.0 | 208.5 | 187.7 | 167.2 | 135.2 |
| 40°   | 358.3 | 354.5 | 345.4 | 331.6 | 313.4 | 274.4 | 222.0 | 194.2 | 174.8 | 146.4 | 109.6 |
| 42.5° | 303.6 | 301.6 | 306.1 | 303.8 | 287.7 | 241.7 | 201.5 | 181.1 | 154.5 | 118.4 | 79.4  |
| 45°   | 199.9 | 203.3 | 211.3 | 225.1 | 228.3 | 207.9 | 184.7 | 159.7 | 127.1 | 87.6  | 45.8  |
| 47.5° | 185.0 | 184.3 | 186.3 | 189.0 | 189.5 | 180.9 | 159.8 | 131.9 | 94.4  | 50.1  | 12.7  |
| 50°   | 183.1 | 182.0 | 180.4 | 177.2 | 170.4 | 153.8 | 129.8 | 96.2  | 54.5  | 13.8  | 0.9   |
| 52.5° | 144.6 | 143.6 | 143.6 | 138.9 | 130.2 | 114.1 | 89.6  | 52.9  | 15.2  | 0.9   | 0.7   |
| 55°   | 48.3  | 51.5  | 51.0  | 50.8  | 54.7  | 50.4  | 38.6  | 13.6  | 1.3   | 0.7   | 0.7   |
| 57.5° | 0.9   | 0.9   | 0.9   | 1.6   | 2.5   | 3.6   | 2.1   | 1.1   | 0.7   | 0.7   | 0.7   |
| 60°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 62.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 65°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   |
| 67.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 70°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 72.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.5   | 0.5   | 0.5   |
| 75°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.5   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   |
| 82.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 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°    | 130.5 | 130.5 | 130.5 | 130.5 | 130.5  | 130.5 | 130.5  | 130.5 |
| 2.5°  | 151.1 | 148.6 | 143.7 | 130.0 | 114.8  | 97.4  | 85.6   | 84.2  |
| 5°    | 164.7 | 160.9 | 153.0 | 125.0 | 90.3   | 60.1  | 44.7   | 39.0  |
| 7.5°  | 173.6 | 168.6 | 158.9 | 116.7 | 65.8   | 31.6  | 17.0   | 13.6  |
| 10°   | 179.0 | 174.3 | 162.0 | 104.4 | 41.8   | 12.5  | 5.7    | 5.4   |
| 12.5° | 181.8 | 177.4 | 163.1 | 89.6  | 23.6   | 5.7   | 4.5    | 4.5   |
| 15°   | 183.8 | 179.0 | 161.4 | 72.4  | 11.8   | 4.3   | 4.1    | 4.1   |
| 17.5° | 184.7 | 178.8 | 156.8 | 54.5  | 6.3    | 3.9   | 3.9    | 3.9   |
| 20°   | 185.2 | 176.8 | 148.2 | 37.2  | 4.3    | 3.6   | 3.8    | 3.8   |
| 22.5° | 185.8 | 172.0 | 136.9 | 23.6  | 3.4    | 3.4   | 3.6    | 3.6   |
| 25°   | 184.7 | 163.6 | 121.0 | 14.3  | 3.0    | 3.2   | 3.4    | 3.6   |
| 27.5° | 177.0 | 150.9 | 101.7 | 8.8   | 2.7    | 3.0   | 3.4    | 3.6   |
| 30°   | 163.8 | 132.3 | 79.4  | 5.5   | 2.5    | 3.0   | 3.4    | 3.6   |
| 32.5° | 146.6 | 111.0 | 56.7  | 3.4   | 2.5    | 3.0   | 3.4    | 3.6   |
| 35°   | 123.5 | 84.9  | 36.8  | 2.3   | 2.5    | 3.0   | 3.6    | 3.8   |
| 37.5° | 97.6  | 59.4  | 19.8  | 1.8   | 2.5    | 3.0   | 3.6    | 3.8   |
| 40°   | 70.3  | 35.6  | 7.2   | 1.6   | 2.3    | 3.2   | 3.8    | 3.9   |
| 42.5° | 41.1  | 13.2  | 1.3   | 1.4   | 2.3    | 3.2   | 3.8    | 3.9   |
| 45°   | 11.8  | 1.4   | 0.7   | 1.4   | 2.3    | 3.2   | 3.9    | 4.1   |
| 47.5° | 0.9   | 0.5   | 0.7   | 1.4   | 2.3    | 3.2   | 3.9    | 4.3   |
| 50°   | 0.5   | 0.5   | 0.5   | 1.4   | 2.3    | 3.4   | 4.1    | 4.3   |
| 52.5° | 0.7   | 0.7   | 0.7   | 1.4   | 2.3    | 3.4   | 4.1    | 4.3   |
| 55°   | 0.7   | 0.7   | 0.7   | 1.4   | 2.3    | 3.4   | 4.1    | 4.3   |
| 57.5° | 0.7   | 0.7   | 0.7   | 1.4   | 2.3    | 3.2   | 4.1    | 4.3   |
| 60°   | 0.7   | 0.7   | 0.7   | 1.3   | 2.1    | 3.2   | 3.9    | 4.1   |
| 62.5° | 0.7   | 0.7   | 0.7   | 1.3   | 2.1    | 3.0   | 3.9    | 3.9   |
| 65°   | 0.7   | 0.7   | 0.7   | 1.1   | 2.0    | 2.9   | 3.6    | 3.8   |
| 67.5° | 0.7   | 0.7   | 0.7   | 1.1   | 1.8    | 2.7   | 3.4    | 3.6   |
| 70°   | 0.5   | 0.7   | 0.7   | 0.9   | 1.6    | 2.5   | 3.2    | 3.4   |
| 72.5° | 0.5   | 0.5   | 0.7   | 0.9   | 1.4    | 2.1   | 2.9    | 3.0   |
| 75°   | 0.5   | 0.5   | 0.5   | 0.7   | 1.3    | 2.0   | 2.5    | 2.7   |
| 77.5° | 0.5   | 0.5   | 0.5   | 0.7   | 1.1    | 1.6   | 2.3    | 2.3   |
| 80°   | 0.4   | 0.5   | 0.5   | 0.5   | 0.9    | 1.3   | 1.8    | 2.0   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.5   | 0.7    | 1.1   | 1.4    | 1.4   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.5    | 0.7   | 0.9    | 0.9   |
| 87.5° | 0.2   | 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)