

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: P1319725

Luminaire Tested: LDSQA3D02R559840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R559840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

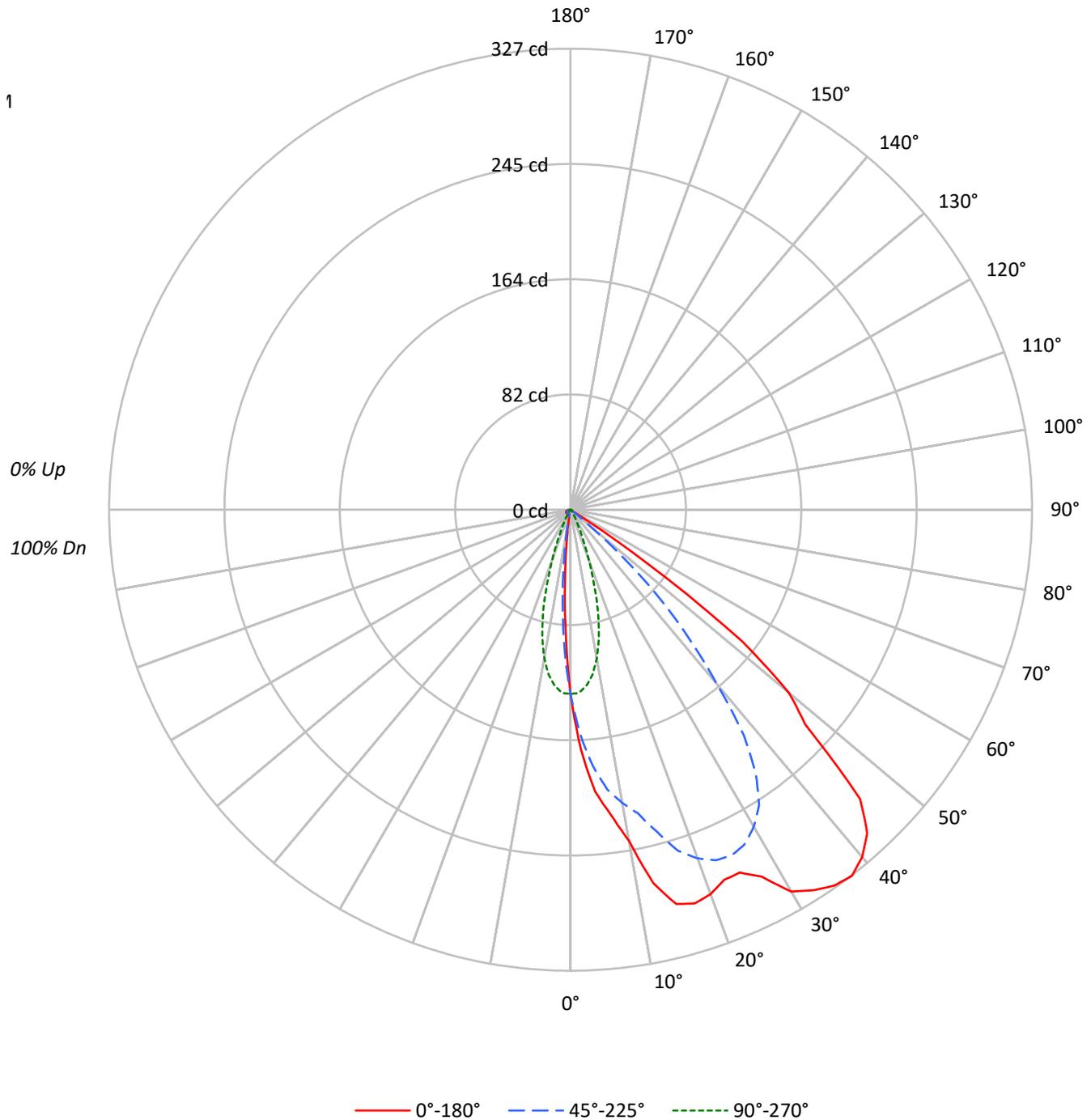
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 218.0 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
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 (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

TEST NUMBER: P1319725  
CATALOG NUMBER: LDSQA3D02R559840DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1319725

CATALOG NUMBER: LDSQA3D02R559840DE010 3LSQCA30R 1MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 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 | 102 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 95  | 94  | 93  | 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  | 89  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 81  | 78  | 75  | 73  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 75  | 71  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 59  | 55  | 63  | 59  | 55  | 63  | 59  | 55  | 53  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 59  | 54  | 50  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 54  | 49  | 45  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 50  | 45  | 41  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 42  | 38  | 37  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 22509 | 22509 | 22509 | 22509 | 22509 |
| 5°  | 34697 | 31585 | 21731 | 11168 | 7330  |
| 10° | 41691 | 36917 | 18712 | 2816  | 1119  |
| 15° | 51617 | 42167 | 13372 | 785   | 606   |
| 20° | 53168 | 48238 | 6909  | 513   | 513   |
| 25° | 53949 | 51383 | 2774  | 475   | 532   |
| 30° | 62165 | 51626 | 1213  | 497   | 557   |
| 35° | 68435 | 48125 | 526   | 526   | 631   |
| 40° | 72280 | 36219 | 292   | 607   | 674   |
| 45° | 70705 | 22140 | 268   | 658   | 828   |
| 50° | 54095 | 4716  | 295   | 750   | 965   |
| 55° | 19847 | 180   | 330   | 841   | 1081  |
| 60° | 207   | 207   | 379   | 964   | 1240  |
| 65° | 245   | 245   | 448   | 1019  | 1304  |
| 70° | 201   | 302   | 453   | 1158  | 1511  |
| 75° | 133   | 266   | 532   | 1264  | 1797  |
| 80° | 198   | 397   | 595   | 1289  | 1884  |
| 85° | 0     | 395   | 790   | 1581  | 1778  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 70705 cd/sqm



TEST NUMBER: P1319725

CATALOG NUMBER: LDSQA3D02R559840DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.5   | 5.3       |
| 10°-20°   | 32.9   | 15.1      |
| 20°-30°   | 50.5   | 23.2      |
| 30°-40°   | 58.9   | 27.0      |
| 40°-50°   | 47.1   | 21.6      |
| 50°-60°   | 13.9   | 6.4       |
| 60°-70°   | 1.5    | 0.7       |
| 70°-80°   | 1.2    | 0.5       |
| 80°-90°   | 0.5    | 0.2       |
| 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°    | 95.0   | 43.6      |
| 0°-40°    | 153.9  | 70.6      |
| 0°-60°    | 214.8  | 98.5      |
| 0°-90°    | 218.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 218.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 131 | 131 | 131 | 131  | 131  |      |
| 5°  | 201 | 183 | 126 | 65   | 42   | 20   |
| 15° | 290 | 236 | 75  | 4    | 3    | 80   |
| 25° | 284 | 270 | 15  | 2    | 3    | 135  |
| 35° | 326 | 229 | 2   | 2    | 3    | 203  |
| 45° | 290 | 91  | 1   | 3    | 3    | 209  |
| 55° | 66  | 1   | 1   | 3    | 4    | 70   |
| 65° | 1   | 1   | 1   | 2    | 3    | 1    |
| 75° | 0   | 0   | 1   | 2    | 3    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1319725

CATALOG NUMBER: LDSQA3D02R559840DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 | 130.7 |
| 2.5°  | 170.4 | 170.4 | 169.9 | 170.0 | 169.7 | 167.6 | 167.2 | 164.6 | 162.3 | 159.8 | 157.7 |
| 5°    | 200.7 | 201.1 | 200.5 | 199.4 | 197.9 | 196.4 | 193.2 | 190.7 | 187.5 | 182.7 | 178.4 |
| 7.5°  | 218.0 | 217.6 | 216.6 | 216.3 | 215.3 | 213.6 | 211.3 | 208.7 | 204.9 | 200.2 | 195.0 |
| 10°   | 238.4 | 235.2 | 234.2 | 232.7 | 229.7 | 226.3 | 222.3 | 218.7 | 215.5 | 211.1 | 205.7 |
| 12.5° | 271.4 | 270.8 | 267.0 | 264.2 | 260.0 | 252.4 | 245.6 | 237.7 | 228.2 | 220.6 | 213.4 |
| 15°   | 289.5 | 289.9 | 288.2 | 285.9 | 283.3 | 277.0 | 270.2 | 260.9 | 249.8 | 236.5 | 224.8 |
| 17.5° | 292.8 | 293.3 | 292.4 | 291.4 | 290.7 | 287.1 | 282.9 | 276.3 | 266.1 | 253.7 | 236.3 |
| 20°   | 290.1 | 291.2 | 291.4 | 292.6 | 294.1 | 292.6 | 289.2 | 284.6 | 276.1 | 263.2 | 246.6 |
| 22.5° | 284.2 | 286.3 | 287.8 | 291.8 | 295.8 | 295.8 | 293.7 | 290.1 | 281.8 | 269.1 | 252.0 |
| 25°   | 283.9 | 284.2 | 284.8 | 291.2 | 297.5 | 298.8 | 296.9 | 293.1 | 284.0 | 270.4 | 251.9 |
| 27.5° | 293.3 | 290.9 | 287.1 | 293.5 | 300.9 | 302.0 | 299.4 | 294.3 | 283.5 | 267.4 | 245.4 |
| 30°   | 312.6 | 307.1 | 299.2 | 303.9 | 309.0 | 307.7 | 302.4 | 294.3 | 279.7 | 259.6 | 233.3 |
| 32.5° | 320.0 | 317.0 | 314.2 | 319.3 | 320.2 | 314.7 | 305.3 | 293.1 | 273.6 | 248.6 | 213.4 |
| 35°   | 325.5 | 325.7 | 324.6 | 325.5 | 321.0 | 313.2 | 302.8 | 286.9 | 262.3 | 228.9 | 187.1 |
| 37.5° | 327.4 | 327.8 | 325.3 | 321.9 | 315.1 | 306.2 | 293.7 | 275.5 | 243.3 | 201.9 | 147.3 |
| 40°   | 321.5 | 320.4 | 316.4 | 311.7 | 304.3 | 295.2 | 281.6 | 254.5 | 215.1 | 161.1 | 114.9 |
| 42.5° | 311.1 | 309.2 | 304.5 | 298.8 | 291.1 | 279.5 | 257.7 | 225.0 | 174.8 | 125.7 | 80.5  |
| 45°   | 290.3 | 289.0 | 283.1 | 278.9 | 269.7 | 254.7 | 226.7 | 185.4 | 135.2 | 90.9  | 46.6  |
| 47.5° | 225.5 | 225.7 | 230.3 | 232.4 | 229.1 | 217.2 | 184.3 | 140.9 | 98.7  | 54.2  | 15.7  |
| 50°   | 201.9 | 200.9 | 196.4 | 190.1 | 179.7 | 161.9 | 135.2 | 99.6  | 58.3  | 17.6  | 2.3   |
| 52.5° | 153.2 | 153.2 | 150.9 | 147.7 | 136.7 | 119.5 | 91.5  | 55.1  | 20.5  | 3.0   | 0.6   |
| 55°   | 66.1  | 62.7  | 64.6  | 68.2  | 65.3  | 56.8  | 42.8  | 16.5  | 3.6   | 0.6   | 0.6   |
| 57.5° | 0.9   | 2.3   | 3.4   | 5.5   | 7.4   | 8.9   | 4.7   | 1.7   | 0.6   | 0.6   | 0.6   |
| 60°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 62.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 65°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 67.5° | 0.4   | 0.4   | 0.4   | 0.6   | 0.4   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 70°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.6   | 0.6   |
| 72.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 75°   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 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   | 0.2   | 0.4   | 0.4   | 0.4   |
| 82.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 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   |



TEST NUMBER: P1319725

CATALOG NUMBER: LDSQA3D02R559840DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 130.7 | 130.7 | 130.7 | 130.7 | 130.7  | 130.7 | 130.7  | 130.7 |
| 2.5°  | 154.7 | 151.5 | 146.2 | 130.1 | 113.4  | 98.1  | 87.1   | 82.9  |
| 5°    | 173.5 | 167.6 | 158.7 | 125.7 | 92.6   | 64.6  | 48.7   | 42.4  |
| 7.5°  | 188.2 | 180.7 | 167.8 | 118.2 | 68.0   | 34.5  | 20.6   | 16.3  |
| 10°   | 198.1 | 189.7 | 172.9 | 107.0 | 45.1   | 16.1  | 7.8    | 6.4   |
| 12.5° | 205.3 | 194.9 | 174.8 | 92.6  | 26.5   | 7.4   | 4.2    | 3.8   |
| 15°   | 210.6 | 197.1 | 172.5 | 75.0  | 14.6   | 4.4   | 3.4    | 3.4   |
| 17.5° | 218.0 | 198.3 | 167.0 | 55.3  | 8.3    | 3.2   | 3.2    | 3.2   |
| 20°   | 223.6 | 198.3 | 156.6 | 37.7  | 5.1    | 2.8   | 2.8    | 2.8   |
| 22.5° | 226.5 | 195.2 | 143.9 | 23.9  | 3.6    | 2.7   | 2.8    | 2.8   |
| 25°   | 223.6 | 187.8 | 127.6 | 14.6  | 2.8    | 2.5   | 2.7    | 2.8   |
| 27.5° | 213.2 | 173.1 | 105.9 | 9.3   | 2.3    | 2.5   | 2.7    | 2.8   |
| 30°   | 195.8 | 151.7 | 81.2  | 6.1   | 2.1    | 2.5   | 2.7    | 2.8   |
| 32.5° | 171.2 | 119.9 | 52.6  | 4.0   | 1.9    | 2.5   | 2.7    | 2.8   |
| 35°   | 133.7 | 84.8  | 31.8  | 2.5   | 1.9    | 2.5   | 2.8    | 3.0   |
| 37.5° | 100.2 | 56.6  | 17.2  | 1.5   | 1.9    | 2.5   | 2.8    | 3.0   |
| 40°   | 69.5  | 32.9  | 7.4   | 1.3   | 1.9    | 2.7   | 3.0    | 3.0   |
| 42.5° | 40.3  | 13.1  | 1.9   | 1.1   | 1.9    | 2.7   | 3.0    | 3.2   |
| 45°   | 14.8  | 2.7   | 0.6   | 1.1   | 2.1    | 2.7   | 3.0    | 3.4   |
| 47.5° | 2.1   | 0.6   | 0.6   | 1.1   | 2.1    | 2.7   | 3.2    | 3.4   |
| 50°   | 0.6   | 0.6   | 0.6   | 1.1   | 2.1    | 2.8   | 3.4    | 3.6   |
| 52.5° | 0.6   | 0.6   | 0.6   | 1.1   | 2.1    | 2.8   | 3.4    | 3.6   |
| 55°   | 0.6   | 0.6   | 0.6   | 1.1   | 2.1    | 2.8   | 3.4    | 3.6   |
| 57.5° | 0.6   | 0.6   | 0.6   | 1.1   | 2.1    | 2.8   | 3.4    | 3.6   |
| 60°   | 0.6   | 0.6   | 0.6   | 1.1   | 1.9    | 2.8   | 3.4    | 3.6   |
| 62.5° | 0.6   | 0.6   | 0.6   | 1.1   | 1.9    | 2.7   | 3.2    | 3.4   |
| 65°   | 0.6   | 0.6   | 0.6   | 1.1   | 1.7    | 2.5   | 3.2    | 3.2   |
| 67.5° | 0.6   | 0.6   | 0.6   | 0.9   | 1.7    | 2.5   | 3.0    | 3.2   |
| 70°   | 0.6   | 0.6   | 0.6   | 0.9   | 1.5    | 2.3   | 2.8    | 3.0   |
| 72.5° | 0.6   | 0.6   | 0.6   | 0.8   | 1.3    | 2.1   | 2.7    | 2.8   |
| 75°   | 0.4   | 0.6   | 0.6   | 0.8   | 1.3    | 1.9   | 2.5    | 2.7   |
| 77.5° | 0.4   | 0.6   | 0.6   | 0.6   | 1.1    | 1.5   | 2.1    | 2.3   |
| 80°   | 0.4   | 0.4   | 0.6   | 0.6   | 0.9    | 1.3   | 1.7    | 1.9   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.6   | 0.8    | 0.9   | 1.3    | 1.3   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.6    | 0.8   | 0.9    | 0.9   |
| 87.5° | 0.2   | 0.2   | 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)