

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: IRiS

Report Number: P1336265

Luminaire Tested: P3A02R45B2750DE010 E3CA301MW\_5000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R45B2750DE010 E3CA301MW\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 80CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

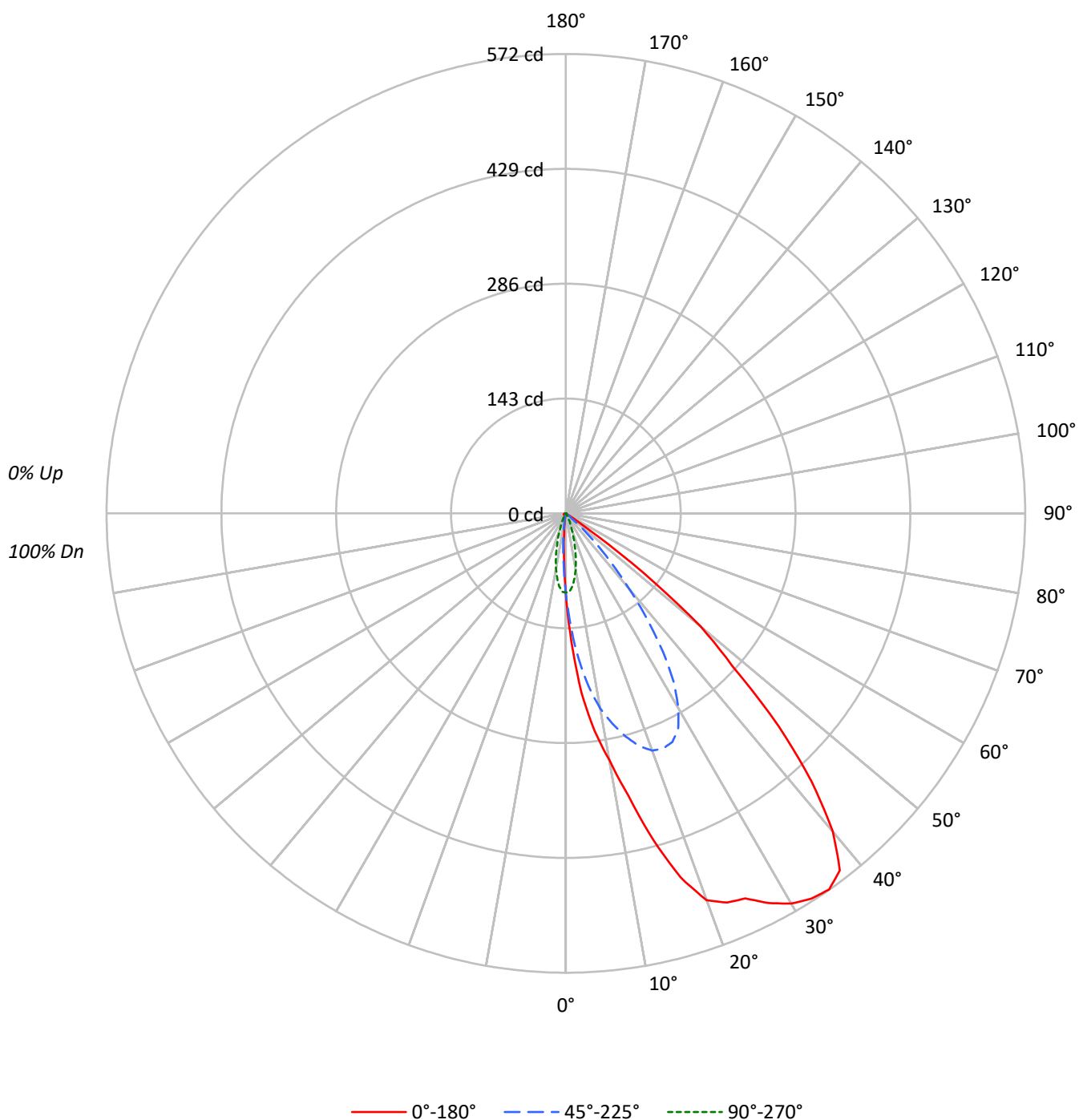
Lumens per Lamp: N/A  
Luminaire Lumens: 258.9 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 2.9  
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: P1336265

CATALOG NUMBER: P3A02R45B2750DE010 E3CA301MW\_5000K

### 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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 93  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 95  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 76  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 68  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 62  | 62  | 60  |
| 6   | 81  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 56  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 51  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 46  | 46  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 21621  | 21621 | 21621 | 21621 | 21621 |
| 5°  | 49262  | 39951 | 20207 | 8100  | 5525  |
| 10° | 69404  | 54887 | 15631 | 1781  | 824   |
| 15° | 95642  | 65290 | 9989  | 590   | 499   |
| 20° | 119594 | 73343 | 5204  | 397   | 397   |
| 25° | 127967 | 75948 | 2419  | 315   | 363   |
| 30° | 142047 | 70922 | 1089  | 329   | 380   |
| 35° | 153013 | 56537 | 348   | 348   | 455   |
| 40° | 148049 | 35037 | 172   | 429   | 544   |
| 45° | 116260 | 16529 | 186   | 527   | 682   |
| 50° | 74710  | 1910  | 307   | 648   | 887   |
| 55° | 11354  | 153   | 344   | 841   | 1070  |
| 60° | 175    | 175   | 395   | 965   | 1140  |
| 65° | 208    | 208   | 467   | 986   | 1349  |
| 70° | 256    | 256   | 577   | 1090  | 1539  |
| 75° | 169    | 339   | 763   | 1271  | 1610  |
| 80° | 253    | 505   | 758   | 1389  | 1894  |
| 85° | 0      | 503   | 1006  | 1510  | 1510  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 116260 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.8   | 4.2       |
| 10°-20°   | 39.0   | 15.1      |
| 20°-30°   | 68.5   | 26.5      |
| 30°-40°   | 77.8   | 30.0      |
| 40°-50°   | 50.4   | 19.5      |
| 50°-60°   | 9.9    | 3.8       |
| 60°-70°   | 1.2    | 0.5       |
| 70°-80°   | 1.0    | 0.4       |
| 80°-90°   | 0.4    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 118.3  | 45.7      |
| 0°-40°    | 196.1  | 75.7      |
| 0°-60°    | 256.3  | 99.0      |
| 0°-90°    | 258.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 258.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 99  | 99  | 99  | 99   | 99   |      |
| 5°  | 224 | 182 | 92  | 37   | 25   | 24   |
| 15° | 421 | 288 | 44  | 3    | 2    | 121  |
| 25° | 529 | 314 | 10  | 1    | 2    | 248  |
| 35° | 572 | 211 | 1   | 1    | 2    | 351  |
| 45° | 375 | 53  | 1   | 2    | 2    | 283  |
| 55° | 30  | 0   | 1   | 2    | 3    | 57   |
| 65° | 0   | 0   | 1   | 2    | 3    | 0    |
| 75° | 0   | 0   | 1   | 2    | 2    | 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°    | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  |
| 2.5°  | 160.1 | 159.6 | 160.3 | 156.0 | 155.7 | 152.5 | 151.6 | 147.9 | 143.0 | 140.6 | 134.9 |
| 5°    | 223.8 | 221.6 | 221.6 | 216.4 | 214.7 | 211.0 | 204.7 | 196.9 | 190.4 | 181.5 | 172.0 |
| 7.5°  | 272.9 | 272.5 | 272.5 | 267.9 | 263.6 | 258.4 | 250.0 | 241.1 | 230.7 | 217.0 | 203.2 |
| 10°   | 311.7 | 312.3 | 310.4 | 306.3 | 300.0 | 294.4 | 284.4 | 273.6 | 260.8 | 246.5 | 228.1 |
| 12.5° | 360.6 | 355.9 | 354.4 | 345.0 | 337.0 | 326.2 | 314.3 | 301.9 | 286.1 | 268.2 | 247.4 |
| 15°   | 421.3 | 415.2 | 409.2 | 396.8 | 383.4 | 366.7 | 348.1 | 329.9 | 309.5 | 287.6 | 261.7 |
| 17.5° | 475.4 | 475.4 | 467.4 | 447.9 | 430.6 | 405.9 | 380.8 | 356.5 | 332.5 | 303.7 | 271.2 |
| 20°   | 512.5 | 510.5 | 504.5 | 490.2 | 470.5 | 442.5 | 409.8 | 375.8 | 346.8 | 314.3 | 276.6 |
| 22.5° | 524.6 | 524.2 | 524.4 | 516.0 | 500.1 | 471.1 | 431.0 | 391.0 | 354.6 | 316.9 | 274.0 |
| 25°   | 528.9 | 529.8 | 532.0 | 528.7 | 516.8 | 487.8 | 444.0 | 398.1 | 357.0 | 313.9 | 264.0 |
| 27.5° | 546.9 | 545.2 | 547.6 | 545.4 | 532.0 | 497.3 | 446.6 | 396.4 | 351.8 | 302.8 | 246.3 |
| 30°   | 561.0 | 560.6 | 564.7 | 562.7 | 545.2 | 503.4 | 444.3 | 389.9 | 339.0 | 280.1 | 218.3 |
| 32.5° | 569.0 | 569.2 | 570.3 | 562.3 | 536.3 | 490.2 | 432.6 | 376.7 | 314.9 | 250.4 | 181.9 |
| 35°   | 571.6 | 570.3 | 564.3 | 544.5 | 509.0 | 459.6 | 403.7 | 345.3 | 282.2 | 211.2 | 143.8 |
| 37.5° | 560.4 | 553.6 | 538.0 | 508.6 | 467.4 | 421.3 | 366.9 | 305.6 | 237.4 | 166.8 | 107.2 |
| 40°   | 517.2 | 508.4 | 488.7 | 458.6 | 420.2 | 375.6 | 319.9 | 255.8 | 184.1 | 122.4 | 75.4  |
| 42.5° | 452.7 | 448.2 | 427.6 | 401.4 | 368.9 | 323.8 | 266.4 | 201.4 | 136.2 | 84.5  | 48.1  |
| 45°   | 374.9 | 369.1 | 356.1 | 332.9 | 307.4 | 260.1 | 206.6 | 144.3 | 92.9  | 53.3  | 23.8  |
| 47.5° | 281.2 | 281.6 | 272.7 | 255.2 | 230.0 | 190.6 | 141.4 | 96.8  | 58.3  | 27.5  | 5.4   |
| 50°   | 219.0 | 216.0 | 203.4 | 185.4 | 156.2 | 126.9 | 91.4  | 61.1  | 30.8  | 5.6   | 0.4   |
| 52.5° | 121.3 | 123.2 | 116.5 | 110.7 | 95.5  | 75.8  | 53.9  | 31.0  | 6.5   | 0.6   | 0.4   |
| 55°   | 29.7  | 31.4  | 30.1  | 30.8  | 31.8  | 28.4  | 21.9  | 6.1   | 0.6   | 0.4   | 0.4   |
| 57.5° | 0.6   | 0.6   | 0.6   | 0.6   | 1.1   | 1.5   | 1.5   | 0.4   | 0.4   | 0.4   | 0.4   |
| 60°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 62.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 65°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 67.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 70°   | 0.4   | 0.4   | 0.4   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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°    | 98.6  | 98.6  | 98.6  | 98.6 | 98.6   | 98.6 | 98.6   | 98.6 |
| 2.5°  | 132.1 | 128.0 | 120.4 | 97.9 | 78.6   | 63.5 | 54.4   | 53.5 |
| 5°    | 163.5 | 152.5 | 136.5 | 91.8 | 58.0   | 36.8 | 26.6   | 25.1 |
| 7.5°  | 188.4 | 172.8 | 148.2 | 81.9 | 39.6   | 18.8 | 10.4   | 8.7  |
| 10°   | 209.0 | 186.9 | 154.2 | 70.2 | 24.9   | 8.0  | 4.3    | 3.7  |
| 12.5° | 223.1 | 196.5 | 155.3 | 57.2 | 14.3   | 3.9  | 2.8    | 2.6  |
| 15°   | 232.2 | 199.5 | 150.1 | 44.0 | 8.0    | 2.6  | 2.4    | 2.2  |
| 17.5° | 235.9 | 196.9 | 140.1 | 31.8 | 4.3    | 1.9  | 1.9    | 1.9  |
| 20°   | 234.1 | 188.4 | 125.4 | 22.3 | 2.8    | 1.7  | 1.7    | 1.7  |
| 22.5° | 225.9 | 173.9 | 107.0 | 14.9 | 1.9    | 1.5  | 1.5    | 1.5  |
| 25°   | 209.7 | 154.2 | 87.5  | 10.0 | 1.3    | 1.3  | 1.5    | 1.5  |
| 27.5° | 185.4 | 130.0 | 66.9  | 6.7  | 1.1    | 1.3  | 1.5    | 1.5  |
| 30°   | 154.9 | 102.9 | 48.1  | 4.3  | 1.1    | 1.3  | 1.3    | 1.5  |
| 32.5° | 123.0 | 74.9  | 31.6  | 2.6  | 0.9    | 1.3  | 1.5    | 1.7  |
| 35°   | 89.2  | 51.1  | 20.1  | 1.3  | 1.1    | 1.3  | 1.5    | 1.7  |
| 37.5° | 62.6  | 33.4  | 11.7  | 0.9  | 1.1    | 1.3  | 1.7    | 1.7  |
| 40°   | 40.7  | 18.6  | 4.3   | 0.6  | 1.1    | 1.5  | 1.7    | 1.9  |
| 42.5° | 21.2  | 6.5   | 0.9   | 0.6  | 1.1    | 1.5  | 1.9    | 2.2  |
| 45°   | 5.4   | 0.9   | 0.2   | 0.6  | 1.3    | 1.7  | 2.2    | 2.2  |
| 47.5° | 0.6   | 0.2   | 0.2   | 0.9  | 1.3    | 1.9  | 2.2    | 2.4  |
| 50°   | 0.2   | 0.4   | 0.4   | 0.9  | 1.3    | 1.9  | 2.4    | 2.6  |
| 52.5° | 0.4   | 0.4   | 0.4   | 0.9  | 1.5    | 1.9  | 2.6    | 2.8  |
| 55°   | 0.4   | 0.4   | 0.4   | 0.9  | 1.5    | 2.2  | 2.6    | 2.8  |
| 57.5° | 0.4   | 0.4   | 0.4   | 0.9  | 1.5    | 2.2  | 2.6    | 2.6  |
| 60°   | 0.4   | 0.4   | 0.4   | 0.9  | 1.5    | 2.2  | 2.6    | 2.6  |
| 62.5° | 0.4   | 0.4   | 0.6   | 0.9  | 1.5    | 1.9  | 2.6    | 2.6  |
| 65°   | 0.4   | 0.6   | 0.6   | 0.9  | 1.5    | 1.9  | 2.4    | 2.6  |
| 67.5° | 0.4   | 0.4   | 0.6   | 0.9  | 1.5    | 1.9  | 2.4    | 2.6  |
| 70°   | 0.4   | 0.4   | 0.6   | 0.9  | 1.3    | 1.7  | 2.2    | 2.4  |
| 72.5° | 0.4   | 0.4   | 0.6   | 0.9  | 1.3    | 1.7  | 1.9    | 2.2  |
| 75°   | 0.4   | 0.4   | 0.6   | 0.9  | 1.1    | 1.5  | 1.9    | 1.9  |
| 77.5° | 0.4   | 0.4   | 0.6   | 0.6  | 1.1    | 1.3  | 1.7    | 1.7  |
| 80°   | 0.4   | 0.4   | 0.6   | 0.6  | 0.9    | 1.1  | 1.3    | 1.5  |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.6  | 0.6    | 0.9  | 1.1    | 1.1  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4  | 0.4    | 0.6  | 0.6    | 0.6  |
| 87.5° | 0.2   | 0.4   | 0.4   | 0.4  | 0.4    | 0.4  | 0.4    | 0.2  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)