

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: P1343041

Luminaire Tested: P3A09R459827DE010 E3A301WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343041  
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: P3A09R459827DE010 E3A301WH  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3A301WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

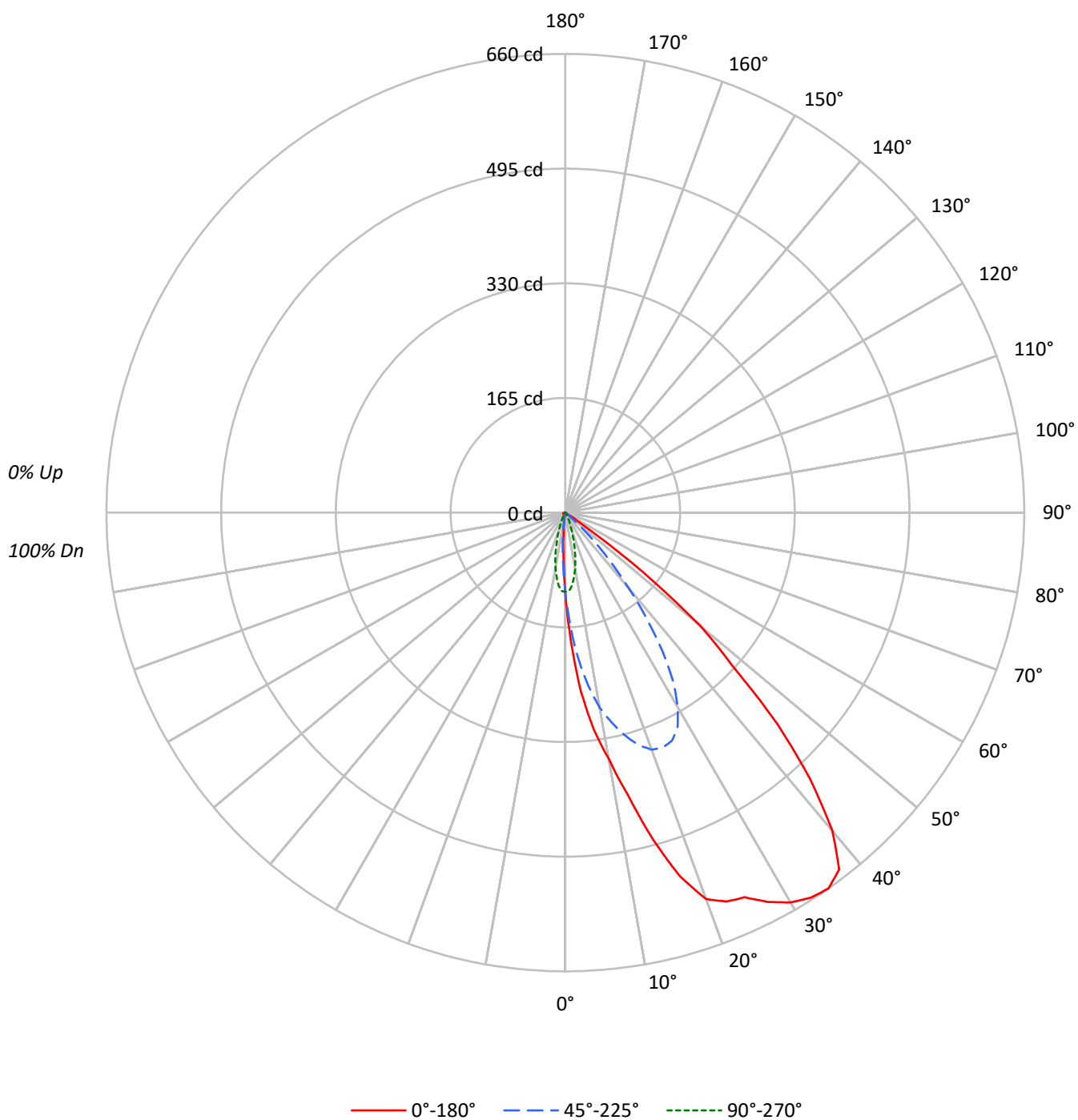
Lumens per Lamp: N/A  
Luminaire Lumens: 299.1 lumens  
Efficiency: N/A  
Efficacy: 27.2 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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: P1343041

CATALOG NUMBER: P3A09R459827DE010 E3A301WH

### Luminous Intensity Polar Plot



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CATALOG NUMBER: P3A09R459827DE010 E3A301WH

**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  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 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  | 75  | 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  | 42  | 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°  | 24954  | 24954 | 24954 | 24954 | 24954 |
| 5°  | 56857  | 46115 | 23333 | 9355  | 6383  |
| 10° | 80114  | 63370 | 18036 | 2071  | 957   |
| 15° | 110421 | 75392 | 11532 | 681   | 568   |
| 20° | 138052 | 84661 | 6021  | 467   | 467   |
| 25° | 147734 | 87658 | 2782  | 363   | 436   |
| 30° | 163975 | 81861 | 1266  | 380   | 456   |
| 35° | 176650 | 65263 | 402   | 402   | 535   |
| 40° | 170920 | 40447 | 229   | 515   | 658   |
| 45° | 134215 | 19072 | 248   | 620   | 775   |
| 50° | 86240  | 2217  | 341   | 785   | 1023  |
| 55° | 13113  | 191   | 382   | 956   | 1262  |
| 60° | 219    | 219   | 439   | 1096  | 1316  |
| 65° | 259    | 259   | 519   | 1193  | 1557  |
| 70° | 321    | 321   | 641   | 1282  | 1795  |
| 75° | 254    | 424   | 847   | 1525  | 1949  |
| 80° | 379    | 631   | 1010  | 1642  | 2273  |
| 85° | 0      | 755   | 1258  | 2013  | 2013  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 134215 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.5   | 4.2       |
| 10°-20°   | 45.0   | 15.1      |
| 20°-30°   | 79.1   | 26.4      |
| 30°-40°   | 89.8   | 30.0      |
| 40°-50°   | 58.2   | 19.4      |
| 50°-60°   | 11.4   | 3.8       |
| 60°-70°   | 1.4    | 0.5       |
| 70°-80°   | 1.2    | 0.4       |
| 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°    | 136.6  | 45.7      |
| 0°-40°    | 226.4  | 75.7      |
| 0°-60°    | 296.0  | 99.0      |
| 0°-90°    | 299.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 299.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 114 | 114 | 114 | 114  | 114  |      |
| 5°  | 258 | 210 | 106 | 42   | 29   | 27   |
| 15° | 486 | 332 | 51  | 3    | 2    | 140  |
| 25° | 611 | 362 | 12  | 2    | 2    | 286  |
| 35° | 660 | 244 | 2   | 2    | 2    | 406  |
| 45° | 433 | 62  | 1   | 2    | 2    | 326  |
| 55° | 34  | 0   | 1   | 2    | 3    | 65   |
| 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°    | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| 2.5°  | 184.8 | 184.3 | 185.0 | 180.0 | 179.8 | 176.0 | 175.0 | 170.8 | 165.0 | 162.3 | 155.8 |
| 5°    | 258.3 | 255.8 | 255.8 | 249.8 | 247.8 | 243.6 | 236.3 | 227.3 | 219.8 | 209.5 | 198.5 |
| 7.5°  | 315.1 | 314.6 | 314.6 | 309.3 | 304.3 | 298.3 | 288.6 | 278.3 | 266.3 | 250.6 | 234.6 |
| 10°   | 359.8 | 360.6 | 358.3 | 353.6 | 346.3 | 339.8 | 328.3 | 315.8 | 301.1 | 284.6 | 263.3 |
| 12.5° | 416.3 | 410.8 | 409.1 | 398.3 | 389.1 | 376.6 | 362.8 | 348.6 | 330.3 | 309.6 | 285.6 |
| 15°   | 486.4 | 479.4 | 472.4 | 458.1 | 442.6 | 423.3 | 401.8 | 380.8 | 357.3 | 332.1 | 302.1 |
| 17.5° | 548.9 | 548.9 | 539.6 | 517.1 | 497.1 | 468.6 | 439.6 | 411.6 | 383.8 | 350.6 | 313.1 |
| 20°   | 591.6 | 589.4 | 582.4 | 565.9 | 543.1 | 510.9 | 473.1 | 433.8 | 400.3 | 362.8 | 319.3 |
| 22.5° | 605.6 | 605.1 | 605.4 | 595.6 | 577.4 | 543.9 | 497.6 | 451.4 | 409.3 | 365.8 | 316.3 |
| 25°   | 610.6 | 611.6 | 614.1 | 610.4 | 596.6 | 563.1 | 512.6 | 459.6 | 412.1 | 362.3 | 304.8 |
| 27.5° | 631.4 | 629.4 | 632.1 | 629.6 | 614.1 | 574.1 | 515.6 | 457.6 | 406.1 | 349.6 | 284.3 |
| 30°   | 647.6 | 647.1 | 651.9 | 649.6 | 629.4 | 581.1 | 512.9 | 450.1 | 391.3 | 323.3 | 252.1 |
| 32.5° | 656.9 | 657.1 | 658.4 | 649.1 | 619.1 | 565.9 | 499.4 | 434.8 | 363.6 | 289.1 | 210.0 |
| 35°   | 659.9 | 658.4 | 651.4 | 628.6 | 587.6 | 530.6 | 466.1 | 398.6 | 325.8 | 243.8 | 166.0 |
| 37.5° | 646.9 | 639.1 | 621.1 | 587.1 | 539.6 | 486.4 | 423.6 | 352.8 | 274.1 | 192.5 | 123.8 |
| 40°   | 597.1 | 586.9 | 564.1 | 529.4 | 485.1 | 433.6 | 369.3 | 295.3 | 212.5 | 141.3 | 87.0  |
| 42.5° | 522.6 | 517.4 | 493.6 | 463.4 | 425.8 | 373.8 | 307.6 | 232.6 | 157.3 | 97.5  | 55.5  |
| 45°   | 432.8 | 426.1 | 411.1 | 384.3 | 354.8 | 300.3 | 238.6 | 166.5 | 107.3 | 61.5  | 27.5  |
| 47.5° | 324.6 | 325.1 | 314.8 | 294.6 | 265.6 | 220.0 | 163.3 | 111.8 | 67.3  | 31.8  | 6.3   |
| 50°   | 252.8 | 249.3 | 234.8 | 214.0 | 180.3 | 146.5 | 105.5 | 70.5  | 35.5  | 6.5   | 0.5   |
| 52.5° | 140.0 | 142.3 | 134.5 | 127.8 | 110.3 | 87.5  | 62.3  | 35.8  | 7.5   | 0.8   | 0.5   |
| 55°   | 34.3  | 36.3  | 34.8  | 35.5  | 36.8  | 32.8  | 25.3  | 7.0   | 0.8   | 0.5   | 0.5   |
| 57.5° | 0.8   | 0.8   | 0.8   | 0.8   | 1.3   | 1.8   | 1.8   | 0.5   | 0.5   | 0.5   | 0.5   |
| 60°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 62.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 65°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 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   | 0.3   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 72.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   | 0.5   |
| 75°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   | 0.5   |
| 77.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   |
| 80°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   |
| 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°    | 113.8 | 113.8 | 113.8 | 113.8 | 113.8  | 113.8 | 113.8  | 113.8 |
| 2.5°  | 152.5 | 147.8 | 139.0 | 113.0 | 90.8   | 73.3  | 62.8   | 61.8  |
| 5°    | 188.8 | 176.0 | 157.5 | 106.0 | 67.0   | 42.5  | 30.8   | 29.0  |
| 7.5°  | 217.5 | 199.5 | 171.0 | 94.5  | 45.8   | 21.8  | 12.0   | 10.0  |
| 10°   | 241.3 | 215.8 | 178.0 | 81.0  | 28.8   | 9.3   | 5.0    | 4.3   |
| 12.5° | 257.6 | 226.8 | 179.3 | 66.0  | 16.5   | 4.5   | 3.3    | 3.0   |
| 15°   | 268.1 | 230.3 | 173.3 | 50.8  | 9.3    | 3.0   | 2.8    | 2.5   |
| 17.5° | 272.3 | 227.3 | 161.8 | 36.8  | 5.0    | 2.3   | 2.3    | 2.3   |
| 20°   | 270.3 | 217.5 | 144.8 | 25.8  | 3.3    | 2.0   | 2.0    | 2.0   |
| 22.5° | 260.8 | 200.8 | 123.5 | 17.3  | 2.3    | 1.8   | 1.8    | 1.8   |
| 25°   | 242.1 | 178.0 | 101.0 | 11.5  | 1.5    | 1.5   | 1.8    | 1.8   |
| 27.5° | 214.0 | 150.0 | 77.3  | 7.8   | 1.3    | 1.5   | 1.8    | 1.8   |
| 30°   | 178.8 | 118.8 | 55.5  | 5.0   | 1.3    | 1.5   | 1.5    | 1.8   |
| 32.5° | 142.0 | 86.5  | 36.5  | 3.0   | 1.0    | 1.5   | 1.8    | 2.0   |
| 35°   | 103.0 | 59.0  | 23.3  | 1.5   | 1.3    | 1.5   | 1.8    | 2.0   |
| 37.5° | 72.3  | 38.5  | 13.5  | 1.0   | 1.3    | 1.5   | 2.0    | 2.0   |
| 40°   | 47.0  | 21.5  | 5.0   | 0.8   | 1.3    | 1.8   | 2.0    | 2.3   |
| 42.5° | 24.5  | 7.5   | 1.0   | 0.8   | 1.3    | 1.8   | 2.3    | 2.5   |
| 45°   | 6.3   | 1.0   | 0.3   | 0.8   | 1.5    | 2.0   | 2.5    | 2.5   |
| 47.5° | 0.8   | 0.3   | 0.3   | 1.0   | 1.5    | 2.3   | 2.5    | 2.8   |
| 50°   | 0.3   | 0.5   | 0.5   | 1.0   | 1.5    | 2.3   | 2.8    | 3.0   |
| 52.5° | 0.5   | 0.5   | 0.5   | 1.0   | 1.8    | 2.3   | 3.0    | 3.3   |
| 55°   | 0.5   | 0.5   | 0.5   | 1.0   | 1.8    | 2.5   | 3.0    | 3.3   |
| 57.5° | 0.5   | 0.5   | 0.5   | 1.0   | 1.8    | 2.5   | 3.0    | 3.0   |
| 60°   | 0.5   | 0.5   | 0.5   | 1.0   | 1.8    | 2.5   | 3.0    | 3.0   |
| 62.5° | 0.5   | 0.5   | 0.8   | 1.0   | 1.8    | 2.3   | 3.0    | 3.0   |
| 65°   | 0.5   | 0.8   | 0.8   | 1.0   | 1.8    | 2.3   | 2.8    | 3.0   |
| 67.5° | 0.5   | 0.5   | 0.8   | 1.0   | 1.8    | 2.3   | 2.8    | 3.0   |
| 70°   | 0.5   | 0.5   | 0.8   | 1.0   | 1.5    | 2.0   | 2.5    | 2.8   |
| 72.5° | 0.5   | 0.5   | 0.8   | 1.0   | 1.5    | 2.0   | 2.3    | 2.5   |
| 75°   | 0.5   | 0.5   | 0.8   | 1.0   | 1.3    | 1.8   | 2.3    | 2.3   |
| 77.5° | 0.5   | 0.5   | 0.8   | 0.8   | 1.3    | 1.5   | 2.0    | 2.0   |
| 80°   | 0.5   | 0.5   | 0.8   | 0.8   | 1.0    | 1.3   | 1.5    | 1.8   |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.8   | 0.8    | 1.0   | 1.3    | 1.3   |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.8   | 0.8    | 0.8   |
| 87.5° | 0.3   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5   | 0.5    | 0.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)