

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: P1445682

Luminaire Tested: P3ART13R709027DE010 E3LSWW1GPH

Issue Date: 5/8/2026

**Test Information**

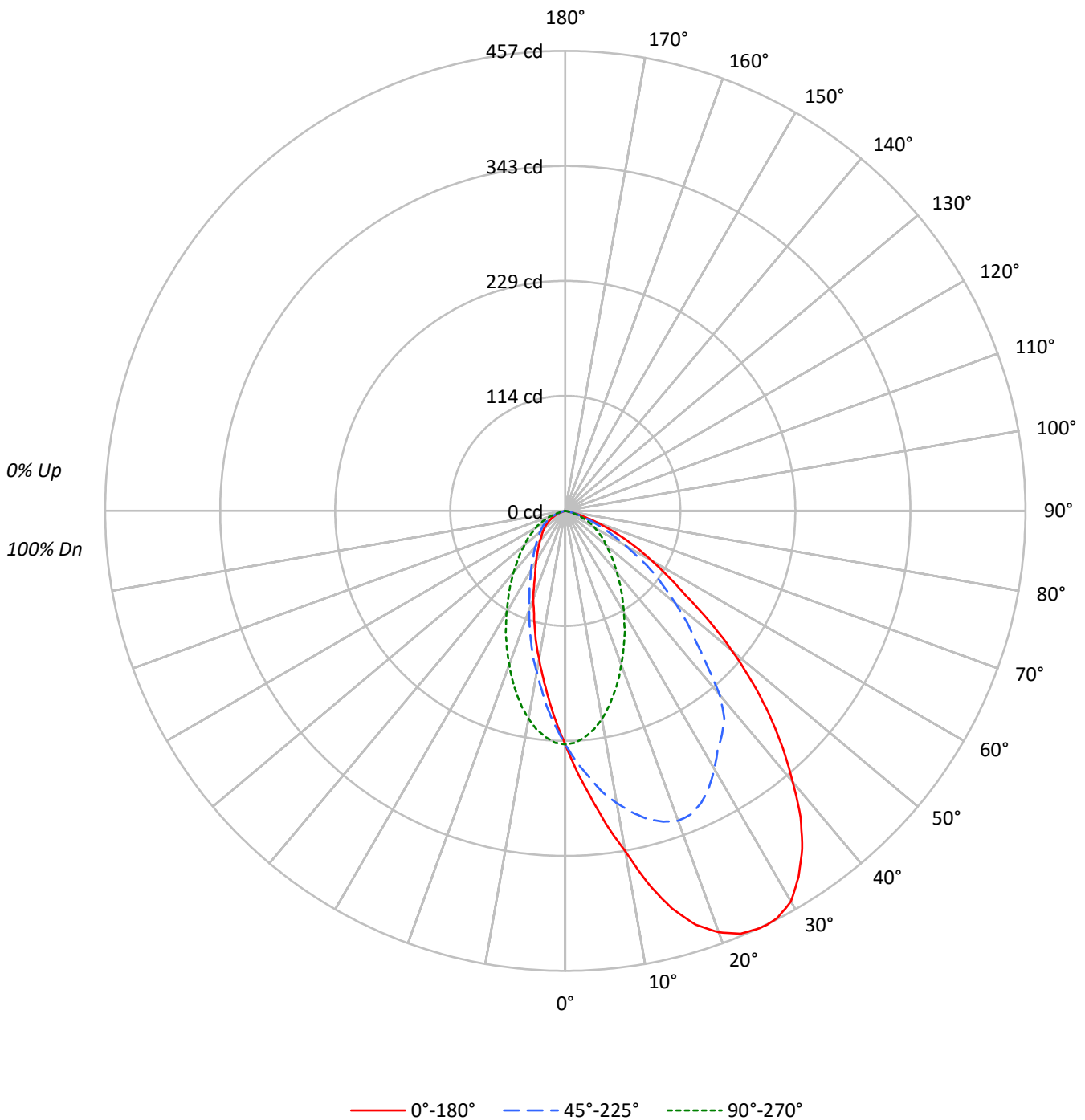
Test Method: LM-79-2019  
Report Number: P1445682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709027DE010 E3LSWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3LSWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 462.0 lumens  
Efficiency: N/A  
Efficacy: 31.6 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23  
Luminous Opening: Circular (Dia: 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





TEST NUMBER: P1445682

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  | 89  | 89  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 89  | 85  | 91  | 87  | 83  | 88  | 85  | 81  | 85  | 82  | 80  | 78  | 78  | 78  |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  | 68  | 68  |
| 4   | 88  | 78  | 70  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 60  | 60  | 60  |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 62  | 57  | 68  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  | 53  | 53  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 51  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 47  | 47  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 43  | 43  | 43  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  | 39  | 39  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  | 35  | 35  |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  | 32  | 32  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 50851  | 50851 | 50851 | 50851 | 50851 |
| 5°  | 62580  | 58265 | 49615 | 43561 | 41250 |
| 10° | 76440  | 65641 | 46693 | 36183 | 33266 |
| 15° | 92804  | 71987 | 42543 | 30034 | 26765 |
| 20° | 103959 | 76447 | 37920 | 24455 | 21702 |
| 25° | 110643 | 77351 | 33607 | 20300 | 17130 |
| 30° | 113460 | 74974 | 29524 | 17243 | 14610 |
| 35° | 109781 | 72598 | 25966 | 14723 | 12635 |
| 40° | 100531 | 68271 | 22871 | 13139 | 11250 |
| 45° | 89001  | 56874 | 20312 | 12187 | 10172 |
| 50° | 73755  | 48715 | 17876 | 11189 | 9381  |
| 55° | 55587  | 40562 | 16516 | 10513 | 8525  |
| 60° | 43681  | 30436 | 14955 | 9780  | 7456  |
| 65° | 32636  | 22415 | 12920 | 8146  | 6123  |
| 70° | 21029  | 14297 | 9232  | 5898  | 3334  |
| 75° | 8896   | 7795  | 4406  | 2203  | 1101  |
| 80° | 1642   | 1642  | 0     | 0     | 0     |
| 85° | 0      | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 89001 cd/sqm



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**ZONAL LUMENS:**

| Zone            | Lumens       | % Fixture    |
|-----------------|--------------|--------------|
| 0°-10°          | 22.0         | 4.8          |
| 10°-20°         | 63.3         | 13.7         |
| 20°-30°         | 92.6         | 20.0         |
| 30°-40°         | 100.9        | 21.8         |
| 40°-50°         | 87.3         | 18.9         |
| 50°-60°         | 58.5         | 12.7         |
| 60°-70°         | 30.2         | 6.5          |
| 70°-80°         | 7.1          | 1.5          |
| 80°-90°         | 0.1          | 0.0          |
| 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          |
| <b>0°-30°</b>   | <b>177.9</b> | <b>38.5</b>  |
| <b>0°-40°</b>   | <b>278.8</b> | <b>60.3</b>  |
| <b>0°-60°</b>   | <b>424.6</b> | <b>91.9</b>  |
| <b>0°-90°</b>   | <b>462.0</b> | <b>100.0</b> |
| 90°-120°        | 0.0          | 0.0          |
| 90°-150°        | 0.0          | 0.0          |
| <b>90°-180°</b> | <b>0.0</b>   | <b>0.0</b>   |
| <b>0°-180°</b>  | <b>462.0</b> | <b>100.0</b> |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 232 | 232 | 232 | 232  | 232  |      |
| 5°  | 284 | 265 | 225 | 198  | 187  | 29   |
| 15° | 409 | 317 | 187 | 132  | 118  | 116  |
| 25° | 457 | 320 | 139 | 84   | 71   | 210  |
| 35° | 410 | 271 | 97  | 55   | 47   | 254  |
| 45° | 287 | 183 | 66  | 39   | 33   | 220  |
| 55° | 145 | 106 | 43  | 28   | 22   | 135  |
| 65° | 63  | 43  | 25  | 16   | 12   | 63   |
| 75° | 10  | 9   | 5   | 3    | 1    | 14   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 |
| 2.5°  | 258.1 | 256.8 | 256.8 | 254.2 | 251.6 | 249.0 | 245.0 | 241.1 | 237.2 | 233.2 | 230.6 |
| 5°    | 284.3 | 285.7 | 284.3 | 279.1 | 272.6 | 264.7 | 256.8 | 247.7 | 238.5 | 230.6 | 225.4 |
| 7.5°  | 314.5 | 314.5 | 310.6 | 304.0 | 294.8 | 281.7 | 268.6 | 252.9 | 238.5 | 225.4 | 218.8 |
| 10°   | 343.3 | 343.3 | 336.8 | 326.3 | 311.9 | 294.8 | 276.5 | 255.5 | 235.9 | 217.5 | 209.7 |
| 12.5° | 378.7 | 377.4 | 369.5 | 352.5 | 331.5 | 306.6 | 281.7 | 255.5 | 231.9 | 209.7 | 199.2 |
| 15°   | 408.8 | 407.5 | 397.0 | 376.1 | 348.6 | 317.1 | 283.0 | 252.9 | 224.1 | 199.2 | 187.4 |
| 17.5° | 431.1 | 428.5 | 416.7 | 394.4 | 363.0 | 323.7 | 284.3 | 247.7 | 214.9 | 187.4 | 175.6 |
| 20°   | 445.5 | 444.2 | 431.1 | 404.9 | 370.8 | 327.6 | 283.0 | 241.1 | 205.7 | 175.6 | 162.5 |
| 22.5° | 454.7 | 452.1 | 439.0 | 410.1 | 370.8 | 326.3 | 277.8 | 231.9 | 193.9 | 163.8 | 150.7 |
| 25°   | 457.3 | 456.0 | 440.3 | 408.8 | 366.9 | 319.7 | 269.9 | 222.8 | 182.1 | 152.0 | 138.9 |
| 26°   | 457.3 | 456.0 | 440.3 | 407.5 | 364.3 | 315.8 | 266.0 | 218.8 | 178.2 | 146.8 | 135.0 |
| 27.5° | 456.0 | 454.7 | 437.7 | 403.6 | 359.0 | 309.2 | 258.1 | 211.0 | 170.3 | 140.2 | 127.1 |
| 30°   | 448.1 | 445.5 | 428.5 | 394.4 | 347.2 | 296.1 | 245.0 | 199.2 | 158.6 | 128.4 | 116.6 |
| 32.5° | 431.1 | 428.5 | 410.1 | 378.7 | 334.1 | 281.7 | 230.6 | 186.1 | 146.8 | 116.6 | 106.1 |
| 35°   | 410.1 | 407.5 | 389.2 | 359.0 | 315.8 | 271.2 | 214.9 | 171.7 | 133.7 | 107.4 | 97.0  |
| 37.5° | 383.9 | 380.0 | 364.3 | 332.8 | 293.5 | 259.4 | 201.8 | 157.2 | 121.9 | 97.0  | 87.8  |
| 40°   | 351.2 | 349.9 | 335.5 | 306.6 | 267.3 | 238.5 | 193.9 | 157.2 | 111.4 | 87.8  | 79.9  |
| 42.5° | 319.7 | 317.1 | 304.0 | 279.1 | 243.7 | 208.3 | 170.3 | 150.7 | 103.5 | 78.6  | 72.1  |
| 45°   | 287.0 | 284.3 | 272.6 | 251.6 | 218.8 | 183.4 | 183.4 | 129.7 | 89.1  | 72.1  | 65.5  |
| 47.5° | 251.6 | 249.0 | 239.8 | 224.1 | 195.2 | 163.8 | 133.7 | 106.1 | 81.2  | 64.2  | 59.0  |
| 50°   | 216.2 | 217.5 | 209.7 | 193.9 | 171.7 | 142.8 | 115.3 | 89.1  | 69.4  | 57.7  | 52.4  |
| 52.5° | 180.8 | 179.5 | 174.3 | 163.8 | 148.1 | 123.2 | 98.3  | 76.0  | 60.3  | 51.1  | 48.5  |
| 55°   | 145.4 | 146.8 | 144.1 | 137.6 | 124.5 | 106.1 | 82.6  | 65.5  | 53.7  | 45.9  | 43.2  |
| 57.5° | 120.6 | 121.9 | 116.6 | 112.7 | 102.2 | 86.5  | 68.1  | 55.0  | 45.9  | 40.6  | 38.0  |
| 60°   | 99.6  | 100.9 | 97.0  | 91.7  | 83.9  | 69.4  | 55.0  | 45.9  | 40.6  | 36.7  | 34.1  |
| 62.5° | 81.2  | 79.9  | 77.3  | 72.1  | 65.5  | 55.0  | 44.6  | 38.0  | 34.1  | 31.4  | 30.1  |
| 65°   | 62.9  | 62.9  | 60.3  | 56.3  | 51.1  | 43.2  | 35.4  | 31.4  | 28.8  | 26.2  | 24.9  |
| 67.5° | 47.2  | 47.2  | 44.6  | 41.9  | 36.7  | 31.4  | 27.5  | 24.9  | 23.6  | 21.0  | 19.7  |
| 70°   | 32.8  | 32.8  | 31.4  | 30.1  | 26.2  | 22.3  | 21.0  | 18.3  | 17.0  | 15.7  | 14.4  |
| 72.5° | 21.0  | 21.0  | 21.0  | 18.3  | 17.0  | 14.4  | 14.4  | 13.1  | 11.8  | 10.5  | 10.5  |
| 75°   | 10.5  | 11.8  | 10.5  | 10.5  | 9.2   | 9.2   | 7.9   | 7.9   | 6.6   | 6.6   | 5.2   |
| 77.5° | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   |
| 80°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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):**

|       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 | 231.9 |
| 2.5°  | 228.0 | 224.1 | 221.4 | 217.5 | 214.9 | 212.3 | 211.0 | 209.7 | 209.7 | 209.7 |
| 5°    | 221.4 | 214.9 | 208.3 | 201.8 | 197.9 | 193.9 | 190.0 | 188.7 | 187.4 | 187.4 |
| 7.5°  | 213.6 | 203.1 | 193.9 | 186.1 | 179.5 | 175.6 | 171.7 | 169.0 | 167.7 | 167.7 |
| 10°   | 203.1 | 190.0 | 179.5 | 169.0 | 162.5 | 157.2 | 154.6 | 150.7 | 150.7 | 149.4 |
| 12.5° | 191.3 | 175.6 | 163.8 | 154.6 | 148.1 | 141.5 | 137.6 | 135.0 | 133.7 | 133.7 |
| 15°   | 178.2 | 162.5 | 149.4 | 138.9 | 132.3 | 125.8 | 121.9 | 119.2 | 117.9 | 117.9 |
| 17.5° | 165.1 | 148.1 | 135.0 | 124.5 | 117.9 | 111.4 | 107.4 | 104.8 | 104.8 | 103.5 |
| 20°   | 152.0 | 135.0 | 121.9 | 111.4 | 104.8 | 99.6  | 95.7  | 93.0  | 91.7  | 93.0  |
| 22.5° | 140.2 | 123.2 | 110.1 | 100.9 | 93.0  | 87.8  | 83.9  | 82.6  | 81.2  | 81.2  |
| 25°   | 127.1 | 111.4 | 99.6  | 90.4  | 83.9  | 78.6  | 74.7  | 73.4  | 72.1  | 70.8  |
| 26°   | 123.2 | 107.4 | 95.7  | 86.5  | 79.9  | 74.7  | 72.1  | 69.4  | 68.1  | 68.1  |
| 27.5° | 117.9 | 100.9 | 90.4  | 81.2  | 74.7  | 70.8  | 66.8  | 65.5  | 64.2  | 64.2  |
| 30°   | 106.1 | 91.7  | 81.2  | 73.4  | 68.1  | 62.9  | 60.3  | 59.0  | 57.7  | 57.7  |
| 32.5° | 97.0  | 82.6  | 73.4  | 66.8  | 61.6  | 57.7  | 55.0  | 52.4  | 52.4  | 52.4  |
| 35°   | 87.8  | 74.7  | 66.8  | 60.3  | 55.0  | 51.1  | 49.8  | 48.5  | 47.2  | 47.2  |
| 37.5° | 79.9  | 68.1  | 60.3  | 55.0  | 51.1  | 47.2  | 44.6  | 43.2  | 43.2  | 43.2  |
| 40°   | 72.1  | 62.9  | 55.0  | 49.8  | 45.9  | 43.2  | 40.6  | 39.3  | 39.3  | 39.3  |
| 42.5° | 65.5  | 56.3  | 51.1  | 45.9  | 41.9  | 39.3  | 38.0  | 36.7  | 35.4  | 35.4  |
| 45°   | 60.3  | 52.4  | 45.9  | 41.9  | 39.3  | 36.7  | 34.1  | 32.8  | 32.8  | 32.8  |
| 47.5° | 53.7  | 48.5  | 41.9  | 38.0  | 35.4  | 32.8  | 31.4  | 30.1  | 30.1  | 30.1  |
| 50°   | 49.8  | 44.6  | 39.3  | 35.4  | 32.8  | 30.1  | 28.8  | 27.5  | 27.5  | 27.5  |
| 52.5° | 44.6  | 40.6  | 36.7  | 32.8  | 30.1  | 27.5  | 26.2  | 24.9  | 24.9  | 24.9  |
| 55°   | 40.6  | 36.7  | 32.8  | 30.1  | 27.5  | 24.9  | 23.6  | 22.3  | 22.3  | 22.3  |
| 57.5° | 36.7  | 32.8  | 30.1  | 27.5  | 24.9  | 23.6  | 21.0  | 21.0  | 19.7  | 19.7  |
| 60°   | 32.8  | 28.8  | 26.2  | 24.9  | 22.3  | 21.0  | 18.3  | 17.0  | 17.0  | 17.0  |
| 62.5° | 27.5  | 26.2  | 23.6  | 21.0  | 18.3  | 17.0  | 15.7  | 14.4  | 14.4  | 14.4  |
| 65°   | 23.6  | 22.3  | 19.7  | 17.0  | 15.7  | 14.4  | 13.1  | 11.8  | 11.8  | 11.8  |
| 67.5° | 19.7  | 17.0  | 15.7  | 14.4  | 13.1  | 11.8  | 10.5  | 9.2   | 7.9   | 9.2   |
| 70°   | 14.4  | 13.1  | 11.8  | 10.5  | 9.2   | 7.9   | 6.6   | 6.6   | 5.2   | 5.2   |
| 72.5° | 9.2   | 7.9   | 7.9   | 6.6   | 5.2   | 5.2   | 3.9   | 3.9   | 2.6   | 2.6   |
| 75°   | 5.2   | 5.2   | 3.9   | 3.9   | 2.6   | 2.6   | 1.3   | 1.3   | 1.3   | 1.3   |
| 77.5° | 2.6   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 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   |

(END OF REPORT)