

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: P1446291

Luminaire Tested: P3ART09R709050DE010 E3CLSWW1MW

Issue Date: 5/8/2026

**Test Information**

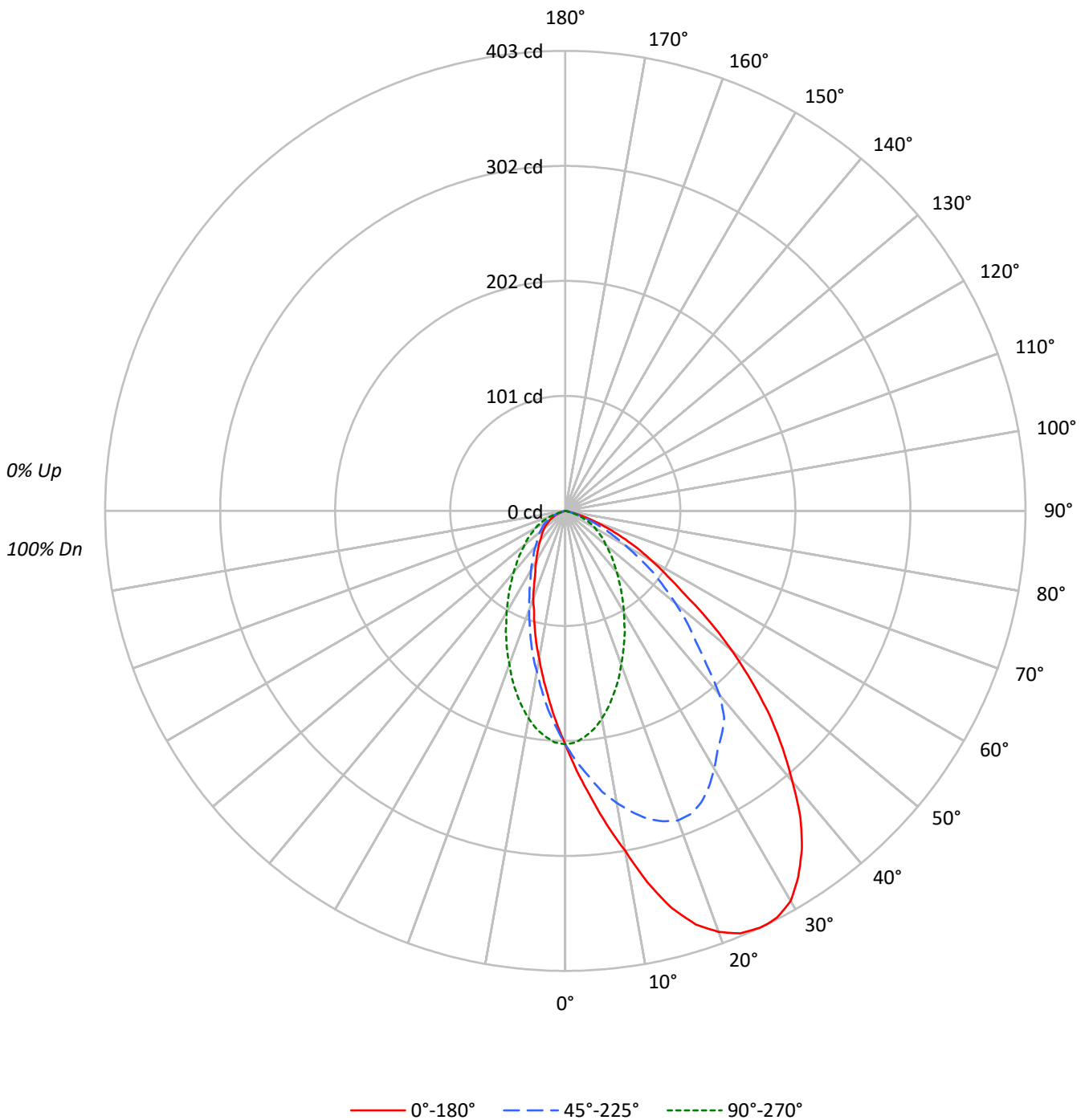
Test Method: LM-79-2019  
Report Number: P1446291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709050DE010 E3CLSWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3CLSWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 407.0 lumens  
Efficiency: N/A  
Efficacy: 36.7 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): 11.1  
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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CATALOG NUMBER: P3ART09R709050DE010 E3CLSWW1MW

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

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 44799 | 44799 | 44799 | 44799 | 44799 |
| 5°  | 55140 | 51332 | 43693 | 38367 | 36342 |
| 10° | 67333 | 57826 | 41126 | 31863 | 29303 |
| 15° | 81771 | 63428 | 37480 | 26470 | 23587 |
| 20° | 91591 | 67346 | 33393 | 21539 | 19135 |
| 25° | 97481 | 68157 | 29615 | 17880 | 15073 |
| 30° | 99965 | 66061 | 26004 | 15192 | 12863 |
| 35° | 96717 | 63978 | 22861 | 12983 | 11136 |
| 40° | 88566 | 60141 | 20152 | 11565 | 9904  |
| 45° | 78396 | 50114 | 17893 | 10730 | 8962  |
| 50° | 64987 | 42915 | 15761 | 9859  | 8256  |
| 55° | 48973 | 35745 | 14566 | 9252  | 7493  |
| 60° | 38462 | 26840 | 13157 | 8596  | 6578  |
| 65° | 28745 | 19769 | 11363 | 7212  | 5396  |
| 70° | 18529 | 12566 | 8142  | 5193  | 2949  |
| 75° | 7795  | 6863  | 3897  | 1949  | 1017  |
| 80° | 1515  | 1515  | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 78396 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.4   | 4.8       |
| 10°-20°   | 55.8   | 13.7      |
| 20°-30°   | 81.6   | 20.0      |
| 30°-40°   | 88.9   | 21.8      |
| 40°-50°   | 76.9   | 18.9      |
| 50°-60°   | 51.5   | 12.7      |
| 60°-70°   | 26.6   | 6.5       |
| 70°-80°   | 6.3    | 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       |
| 0°-30°    | 156.7  | 38.5      |
| 0°-40°    | 245.6  | 60.3      |
| 0°-60°    | 374.0  | 91.9      |
| 0°-90°    | 407.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 407.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 204 | 204 | 204 | 204  | 204  |      |
| 5°  | 250 | 233 | 198 | 174  | 165  | 26   |
| 15° | 360 | 279 | 165 | 117  | 104  | 102  |
| 25° | 403 | 282 | 122 | 74   | 62   | 185  |
| 35° | 361 | 239 | 85  | 48   | 42   | 224  |
| 45° | 253 | 162 | 58  | 35   | 29   | 194  |
| 55° | 128 | 94  | 38  | 24   | 20   | 119  |
| 65° | 55  | 38  | 22  | 14   | 10   | 56   |
| 75° | 9   | 8   | 5   | 2    | 1    | 12   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1446291

CATALOG NUMBER: P3ART09R709050DE010 E3CLSWW1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 |
| 2.5°  | 227.4 | 226.3 | 226.3 | 223.9 | 221.6 | 219.3 | 215.9 | 212.4 | 208.9 | 205.5 | 203.2 |
| 5°    | 250.5 | 251.7 | 250.5 | 245.9 | 240.1 | 233.2 | 226.3 | 218.2 | 210.1 | 203.2 | 198.5 |
| 7.5°  | 277.0 | 277.0 | 273.6 | 267.8 | 259.7 | 248.2 | 236.6 | 222.8 | 210.1 | 198.5 | 192.8 |
| 10°   | 302.4 | 302.4 | 296.7 | 287.4 | 274.7 | 259.7 | 243.6 | 225.1 | 207.8 | 191.6 | 184.7 |
| 12.5° | 333.6 | 332.5 | 325.5 | 310.5 | 292.1 | 270.1 | 248.2 | 225.1 | 204.3 | 184.7 | 175.5 |
| 15°   | 360.2 | 359.0 | 349.8 | 331.3 | 307.1 | 279.4 | 249.3 | 222.8 | 197.4 | 175.5 | 165.1 |
| 17.5° | 379.8 | 377.5 | 367.1 | 347.5 | 319.8 | 285.1 | 250.5 | 218.2 | 189.3 | 165.1 | 154.7 |
| 20°   | 392.5 | 391.3 | 379.8 | 356.7 | 326.7 | 288.6 | 249.3 | 212.4 | 181.2 | 154.7 | 143.1 |
| 22.5° | 400.6 | 398.3 | 386.7 | 361.3 | 326.7 | 287.4 | 244.7 | 204.3 | 170.8 | 144.3 | 132.8 |
| 25°   | 402.9 | 401.7 | 387.9 | 360.2 | 323.2 | 281.7 | 237.8 | 196.2 | 160.5 | 133.9 | 122.4 |
| 26°   | 402.9 | 401.7 | 387.9 | 359.0 | 320.9 | 278.2 | 234.3 | 192.8 | 157.0 | 129.3 | 118.9 |
| 27.5° | 401.7 | 400.6 | 385.6 | 355.5 | 316.3 | 272.4 | 227.4 | 185.9 | 150.1 | 123.5 | 112.0 |
| 30°   | 394.8 | 392.5 | 377.5 | 347.5 | 305.9 | 260.9 | 215.9 | 175.5 | 139.7 | 113.1 | 102.7 |
| 32.5° | 379.8 | 377.5 | 361.3 | 333.6 | 294.4 | 248.2 | 203.2 | 163.9 | 129.3 | 102.7 | 93.5  |
| 35°   | 361.3 | 359.0 | 342.8 | 316.3 | 278.2 | 239.0 | 189.3 | 151.2 | 117.7 | 94.7  | 85.4  |
| 37.5° | 338.2 | 334.8 | 320.9 | 293.2 | 258.6 | 228.6 | 177.8 | 138.5 | 107.4 | 85.4  | 77.3  |
| 40°   | 309.4 | 308.2 | 295.5 | 270.1 | 235.5 | 210.1 | 170.8 | 138.5 | 98.1  | 77.3  | 70.4  |
| 42.5° | 281.7 | 279.4 | 267.8 | 245.9 | 214.7 | 183.5 | 150.1 | 132.8 | 91.2  | 69.3  | 63.5  |
| 45°   | 252.8 | 250.5 | 240.1 | 221.6 | 192.8 | 161.6 | 161.6 | 114.3 | 78.5  | 63.5  | 57.7  |
| 47.5° | 221.6 | 219.3 | 211.2 | 197.4 | 172.0 | 144.3 | 117.7 | 93.5  | 71.6  | 56.6  | 51.9  |
| 50°   | 190.5 | 191.6 | 184.7 | 170.8 | 151.2 | 125.8 | 101.6 | 78.5  | 61.2  | 50.8  | 46.2  |
| 52.5° | 159.3 | 158.1 | 153.5 | 144.3 | 130.4 | 108.5 | 86.6  | 67.0  | 53.1  | 45.0  | 42.7  |
| 55°   | 128.1 | 129.3 | 127.0 | 121.2 | 109.7 | 93.5  | 72.7  | 57.7  | 47.3  | 40.4  | 38.1  |
| 57.5° | 106.2 | 107.4 | 102.7 | 99.3  | 90.0  | 76.2  | 60.0  | 48.5  | 40.4  | 35.8  | 33.5  |
| 60°   | 87.7  | 88.9  | 85.4  | 80.8  | 73.9  | 61.2  | 48.5  | 40.4  | 35.8  | 32.3  | 30.0  |
| 62.5° | 71.6  | 70.4  | 68.1  | 63.5  | 57.7  | 48.5  | 39.2  | 33.5  | 30.0  | 27.7  | 26.6  |
| 65°   | 55.4  | 55.4  | 53.1  | 49.6  | 45.0  | 38.1  | 31.2  | 27.7  | 25.4  | 23.1  | 21.9  |
| 67.5° | 41.6  | 41.6  | 39.2  | 36.9  | 32.3  | 27.7  | 24.2  | 21.9  | 20.8  | 18.5  | 17.3  |
| 70°   | 28.9  | 28.9  | 27.7  | 26.6  | 23.1  | 19.6  | 18.5  | 16.2  | 15.0  | 13.9  | 12.7  |
| 72.5° | 18.5  | 18.5  | 18.5  | 16.2  | 15.0  | 12.7  | 12.7  | 11.5  | 10.4  | 9.2   | 9.2   |
| 75°   | 9.2   | 10.4  | 9.2   | 9.2   | 8.1   | 8.1   | 6.9   | 6.9   | 5.8   | 5.8   | 4.6   |
| 77.5° | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 2.3   | 2.3   | 2.3   | 2.3   | 2.3   |
| 80°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 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°    | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 |
| 2.5°  | 200.9 | 197.4 | 195.1 | 191.6 | 189.3 | 187.0 | 185.9 | 184.7 | 184.7 | 184.7 |
| 5°    | 195.1 | 189.3 | 183.5 | 177.8 | 174.3 | 170.8 | 167.4 | 166.2 | 165.1 | 165.1 |
| 7.5°  | 188.2 | 178.9 | 170.8 | 163.9 | 158.1 | 154.7 | 151.2 | 148.9 | 147.8 | 147.8 |
| 10°   | 178.9 | 167.4 | 158.1 | 148.9 | 143.1 | 138.5 | 136.2 | 132.8 | 132.8 | 131.6 |
| 12.5° | 168.5 | 154.7 | 144.3 | 136.2 | 130.4 | 124.7 | 121.2 | 118.9 | 117.7 | 117.7 |
| 15°   | 157.0 | 143.1 | 131.6 | 122.4 | 116.6 | 110.8 | 107.4 | 105.0 | 103.9 | 103.9 |
| 17.5° | 145.4 | 130.4 | 118.9 | 109.7 | 103.9 | 98.1  | 94.7  | 92.3  | 92.3  | 91.2  |
| 20°   | 133.9 | 118.9 | 107.4 | 98.1  | 92.3  | 87.7  | 84.3  | 82.0  | 80.8  | 82.0  |
| 22.5° | 123.5 | 108.5 | 97.0  | 88.9  | 82.0  | 77.3  | 73.9  | 72.7  | 71.6  | 71.6  |
| 25°   | 112.0 | 98.1  | 87.7  | 79.7  | 73.9  | 69.3  | 65.8  | 64.6  | 63.5  | 62.3  |
| 26°   | 108.5 | 94.7  | 84.3  | 76.2  | 70.4  | 65.8  | 63.5  | 61.2  | 60.0  | 60.0  |
| 27.5° | 103.9 | 88.9  | 79.7  | 71.6  | 65.8  | 62.3  | 58.9  | 57.7  | 56.6  | 56.6  |
| 30°   | 93.5  | 80.8  | 71.6  | 64.6  | 60.0  | 55.4  | 53.1  | 51.9  | 50.8  | 50.8  |
| 32.5° | 85.4  | 72.7  | 64.6  | 58.9  | 54.3  | 50.8  | 48.5  | 46.2  | 46.2  | 46.2  |
| 35°   | 77.3  | 65.8  | 58.9  | 53.1  | 48.5  | 45.0  | 43.9  | 42.7  | 41.6  | 41.6  |
| 37.5° | 70.4  | 60.0  | 53.1  | 48.5  | 45.0  | 41.6  | 39.2  | 38.1  | 38.1  | 38.1  |
| 40°   | 63.5  | 55.4  | 48.5  | 43.9  | 40.4  | 38.1  | 35.8  | 34.6  | 34.6  | 34.6  |
| 42.5° | 57.7  | 49.6  | 45.0  | 40.4  | 36.9  | 34.6  | 33.5  | 32.3  | 31.2  | 31.2  |
| 45°   | 53.1  | 46.2  | 40.4  | 36.9  | 34.6  | 32.3  | 30.0  | 28.9  | 28.9  | 28.9  |
| 47.5° | 47.3  | 42.7  | 36.9  | 33.5  | 31.2  | 28.9  | 27.7  | 26.6  | 26.6  | 26.6  |
| 50°   | 43.9  | 39.2  | 34.6  | 31.2  | 28.9  | 26.6  | 25.4  | 24.2  | 24.2  | 24.2  |
| 52.5° | 39.2  | 35.8  | 32.3  | 28.9  | 26.6  | 24.2  | 23.1  | 21.9  | 21.9  | 21.9  |
| 55°   | 35.8  | 32.3  | 28.9  | 26.6  | 24.2  | 21.9  | 20.8  | 19.6  | 19.6  | 19.6  |
| 57.5° | 32.3  | 28.9  | 26.6  | 24.2  | 21.9  | 20.8  | 18.5  | 18.5  | 17.3  | 17.3  |
| 60°   | 28.9  | 25.4  | 23.1  | 21.9  | 19.6  | 18.5  | 16.2  | 15.0  | 15.0  | 15.0  |
| 62.5° | 24.2  | 23.1  | 20.8  | 18.5  | 16.2  | 15.0  | 13.9  | 12.7  | 12.7  | 12.7  |
| 65°   | 20.8  | 19.6  | 17.3  | 15.0  | 13.9  | 12.7  | 11.5  | 10.4  | 10.4  | 10.4  |
| 67.5° | 17.3  | 15.0  | 13.9  | 12.7  | 11.5  | 10.4  | 9.2   | 8.1   | 6.9   | 8.1   |
| 70°   | 12.7  | 11.5  | 10.4  | 9.2   | 8.1   | 6.9   | 5.8   | 5.8   | 4.6   | 4.6   |
| 72.5° | 8.1   | 6.9   | 6.9   | 5.8   | 4.6   | 4.6   | 3.5   | 3.5   | 2.3   | 2.3   |
| 75°   | 4.6   | 4.6   | 3.5   | 3.5   | 2.3   | 2.3   | 1.2   | 1.2   | 1.2   | 1.2   |
| 77.5° | 2.3   | 1.2   | 1.2   | 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)