

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: P#

Luminaire Tested: P3ART13R709840DE010 E3CLSWW1MW

Issue Date: 5/8/2026

**Test Information**

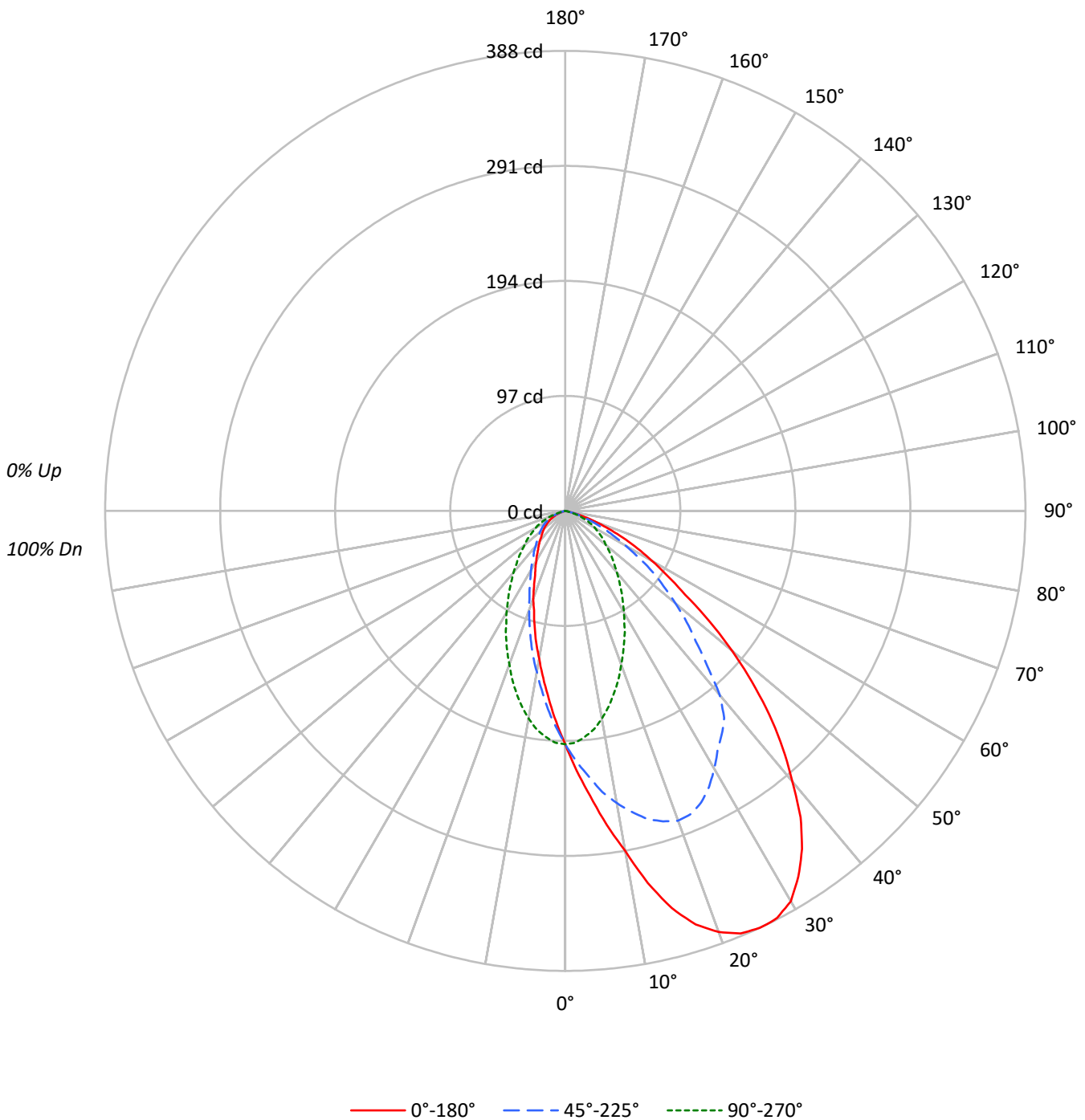
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709840DE010 E3CLSWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , E3CLSWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 392.0 lumens  
Efficiency: N/A  
Efficacy: 27.0 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): 14.5  
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: P#  
CATALOG NUMBER: P3ART13R709840DE010 E3CLSWW1MW

### Luminous Intensity Polar Plot





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

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 43154 | 43154 | 43154 | 43154 | 43154 |
| 5°  | 53115 | 49439 | 42087 | 36958 | 34999 |
| 10° | 64862 | 55710 | 39612 | 30705 | 28211 |
| 15° | 78752 | 61090 | 36096 | 25494 | 22724 |
| 20° | 88208 | 64872 | 32179 | 20745 | 18412 |
| 25° | 93876 | 65641 | 28526 | 17227 | 14517 |
| 30° | 96268 | 63630 | 25067 | 14635 | 12382 |
| 35° | 93157 | 61596 | 22031 | 12501 | 10708 |
| 40° | 85303 | 57937 | 19408 | 11135 | 9561  |
| 45° | 75512 | 48284 | 17242 | 10358 | 8621  |
| 50° | 62565 | 41346 | 15181 | 9484  | 7949  |
| 55° | 47176 | 34446 | 14031 | 8908  | 7226  |
| 60° | 37058 | 25831 | 12674 | 8289  | 6359  |
| 65° | 27707 | 19042 | 10948 | 6901  | 5189  |
| 70° | 17824 | 12117 | 7822  | 5001  | 2821  |
| 75° | 7540  | 6608  | 3728  | 1864  | 932   |
| 80° | 1389  | 1389  | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 75512 cd/sqm



TEST NUMBER: P#

CATALOG NUMBER: P3ART13R709840DE010 E3CLSWW1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 18.7   | 4.8       |
| 10°-20°   | 53.7   | 13.7      |
| 20°-30°   | 78.6   | 20.0      |
| 30°-40°   | 85.6   | 21.8      |
| 40°-50°   | 74.1   | 18.9      |
| 50°-60°   | 49.6   | 12.7      |
| 60°-70°   | 25.6   | 6.5       |
| 70°-80°   | 6.1    | 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       |
| 0°-30°    | 151.0  | 38.5      |
| 0°-40°    | 236.6  | 60.3      |
| 0°-60°    | 360.2  | 91.9      |
| 0°-90°    | 392.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 392.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 197 | 197 | 197 | 197  | 197  |      |
| 5°  | 241 | 225 | 191 | 168  | 159  | 25   |
| 15° | 347 | 269 | 159 | 112  | 100  | 98   |
| 25° | 388 | 271 | 118 | 71   | 60   | 178  |
| 35° | 348 | 230 | 82  | 47   | 40   | 216  |
| 45° | 244 | 156 | 56  | 33   | 28   | 186  |
| 55° | 123 | 90  | 37  | 23   | 19   | 114  |
| 65° | 53  | 37  | 21  | 13   | 10   | 54   |
| 75° | 9   | 8   | 4   | 2    | 1    | 12   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    | 0    |



TEST NUMBER: P#  
 CATALOG NUMBER: P3ART13R709840DE010 E3CLSWW1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 |
| 2.5°  | 219.0 | 217.9 | 217.9 | 215.7 | 213.5 | 211.2 | 207.9 | 204.6 | 201.2 | 197.9 | 195.7 |
| 5°    | 241.3 | 242.4 | 241.3 | 236.8 | 231.3 | 224.6 | 217.9 | 210.1 | 202.4 | 195.7 | 191.2 |
| 7.5°  | 266.8 | 266.8 | 263.5 | 257.9 | 250.2 | 239.0 | 227.9 | 214.6 | 202.4 | 191.2 | 185.7 |
| 10°   | 291.3 | 291.3 | 285.7 | 276.8 | 264.6 | 250.2 | 234.6 | 216.8 | 200.1 | 184.6 | 177.9 |
| 12.5° | 321.3 | 320.2 | 313.5 | 299.1 | 281.3 | 260.2 | 239.0 | 216.8 | 196.8 | 177.9 | 169.0 |
| 15°   | 346.9 | 345.8 | 336.9 | 319.1 | 295.7 | 269.1 | 240.2 | 214.6 | 190.1 | 169.0 | 159.0 |
| 17.5° | 365.8 | 363.6 | 353.6 | 334.7 | 308.0 | 274.6 | 241.3 | 210.1 | 182.3 | 159.0 | 149.0 |
| 20°   | 378.0 | 376.9 | 365.8 | 343.6 | 314.6 | 278.0 | 240.2 | 204.6 | 174.6 | 149.0 | 137.9 |
| 22.5° | 385.8 | 383.6 | 372.5 | 348.0 | 314.6 | 276.8 | 235.7 | 196.8 | 164.5 | 139.0 | 127.9 |
| 25°   | 388.0 | 386.9 | 373.6 | 346.9 | 311.3 | 271.3 | 229.0 | 189.0 | 154.5 | 129.0 | 117.9 |
| 26°   | 388.0 | 386.9 | 373.6 | 345.8 | 309.1 | 267.9 | 225.7 | 185.7 | 151.2 | 124.5 | 114.5 |
| 27.5° | 386.9 | 385.8 | 371.3 | 342.4 | 304.6 | 262.4 | 219.0 | 179.0 | 144.5 | 119.0 | 107.8 |
| 30°   | 380.2 | 378.0 | 363.6 | 334.7 | 294.6 | 251.3 | 207.9 | 169.0 | 134.5 | 109.0 | 99.0  |
| 32.5° | 365.8 | 363.6 | 348.0 | 321.3 | 283.5 | 239.0 | 195.7 | 157.9 | 124.5 | 99.0  | 90.1  |
| 35°   | 348.0 | 345.8 | 330.2 | 304.6 | 267.9 | 230.1 | 182.3 | 145.6 | 113.4 | 91.2  | 82.3  |
| 37.5° | 325.8 | 322.4 | 309.1 | 282.4 | 249.0 | 220.1 | 171.2 | 133.4 | 103.4 | 82.3  | 74.5  |
| 40°   | 298.0 | 296.9 | 284.6 | 260.2 | 226.8 | 202.4 | 164.5 | 133.4 | 94.5  | 74.5  | 67.8  |
| 42.5° | 271.3 | 269.1 | 257.9 | 236.8 | 206.8 | 176.8 | 144.5 | 127.9 | 87.8  | 66.7  | 61.1  |
| 45°   | 243.5 | 241.3 | 231.3 | 213.5 | 185.7 | 155.7 | 133.4 | 110.1 | 75.6  | 61.1  | 55.6  |
| 47.5° | 213.5 | 211.2 | 203.5 | 190.1 | 165.7 | 139.0 | 113.4 | 90.1  | 68.9  | 54.5  | 50.0  |
| 50°   | 183.4 | 184.6 | 177.9 | 164.5 | 145.6 | 121.2 | 97.8  | 75.6  | 58.9  | 48.9  | 44.5  |
| 52.5° | 153.4 | 152.3 | 147.9 | 139.0 | 125.6 | 104.5 | 83.4  | 64.5  | 51.1  | 43.4  | 41.1  |
| 55°   | 123.4 | 124.5 | 122.3 | 116.7 | 105.6 | 90.1  | 70.0  | 55.6  | 45.6  | 38.9  | 36.7  |
| 57.5° | 102.3 | 103.4 | 99.0  | 95.6  | 86.7  | 73.4  | 57.8  | 46.7  | 38.9  | 34.5  | 32.2  |
| 60°   | 84.5  | 85.6  | 82.3  | 77.8  | 71.2  | 58.9  | 46.7  | 38.9  | 34.5  | 31.1  | 28.9  |
| 62.5° | 68.9  | 67.8  | 65.6  | 61.1  | 55.6  | 46.7  | 37.8  | 32.2  | 28.9  | 26.7  | 25.6  |
| 65°   | 53.4  | 53.4  | 51.1  | 47.8  | 43.4  | 36.7  | 30.0  | 26.7  | 24.5  | 22.2  | 21.1  |
| 67.5° | 40.0  | 40.0  | 37.8  | 35.6  | 31.1  | 26.7  | 23.3  | 21.1  | 20.0  | 17.8  | 16.7  |
| 70°   | 27.8  | 27.8  | 26.7  | 25.6  | 22.2  | 18.9  | 17.8  | 15.6  | 14.5  | 13.3  | 12.2  |
| 72.5° | 17.8  | 17.8  | 17.8  | 15.6  | 14.5  | 12.2  | 12.2  | 11.1  | 10.0  | 8.9   | 8.9   |
| 75°   | 8.9   | 10.0  | 8.9   | 8.9   | 7.8   | 7.8   | 6.7   | 6.7   | 5.6   | 5.6   | 4.4   |
| 77.5° | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   |
| 80°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 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   |



TEST NUMBER: P#  
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**CANDELA DISTRIBUTION (continued):**

|       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 | 196.8 |
| 2.5°  | 193.5 | 190.1 | 187.9 | 184.6 | 182.3 | 180.1 | 179.0 | 177.9 | 177.9 | 177.9 |
| 5°    | 187.9 | 182.3 | 176.8 | 171.2 | 167.9 | 164.5 | 161.2 | 160.1 | 159.0 | 159.0 |
| 7.5°  | 181.2 | 172.3 | 164.5 | 157.9 | 152.3 | 149.0 | 145.6 | 143.4 | 142.3 | 142.3 |
| 10°   | 172.3 | 161.2 | 152.3 | 143.4 | 137.9 | 133.4 | 131.2 | 127.9 | 127.9 | 126.7 |
| 12.5° | 162.3 | 149.0 | 139.0 | 131.2 | 125.6 | 120.1 | 116.7 | 114.5 | 113.4 | 113.4 |
| 15°   | 151.2 | 137.9 | 126.7 | 117.9 | 112.3 | 106.7 | 103.4 | 101.2 | 100.1 | 100.1 |
| 17.5° | 140.1 | 125.6 | 114.5 | 105.6 | 100.1 | 94.5  | 91.2  | 88.9  | 88.9  | 87.8  |
| 20°   | 129.0 | 114.5 | 103.4 | 94.5  | 88.9  | 84.5  | 81.2  | 78.9  | 77.8  | 78.9  |
| 22.5° | 119.0 | 104.5 | 93.4  | 85.6  | 78.9  | 74.5  | 71.2  | 70.0  | 68.9  | 68.9  |
| 25°   | 107.8 | 94.5  | 84.5  | 76.7  | 71.2  | 66.7  | 63.4  | 62.3  | 61.1  | 60.0  |
| 26°   | 104.5 | 91.2  | 81.2  | 73.4  | 67.8  | 63.4  | 61.1  | 58.9  | 57.8  | 57.8  |
| 27.5° | 100.1 | 85.6  | 76.7  | 68.9  | 63.4  | 60.0  | 56.7  | 55.6  | 54.5  | 54.5  |
| 30°   | 90.1  | 77.8  | 68.9  | 62.3  | 57.8  | 53.4  | 51.1  | 50.0  | 48.9  | 48.9  |
| 32.5° | 82.3  | 70.0  | 62.3  | 56.7  | 52.3  | 48.9  | 46.7  | 44.5  | 44.5  | 44.5  |
| 35°   | 74.5  | 63.4  | 56.7  | 51.1  | 46.7  | 43.4  | 42.2  | 41.1  | 40.0  | 40.0  |
| 37.5° | 67.8  | 57.8  | 51.1  | 46.7  | 43.4  | 40.0  | 37.8  | 36.7  | 36.7  | 36.7  |
| 40°   | 61.1  | 53.4  | 46.7  | 42.2  | 38.9  | 36.7  | 34.5  | 33.4  | 33.4  | 33.4  |
| 42.5° | 55.6  | 47.8  | 43.4  | 38.9  | 35.6  | 33.4  | 32.2  | 31.1  | 30.0  | 30.0  |
| 45°   | 51.1  | 44.5  | 38.9  | 35.6  | 33.4  | 31.1  | 28.9  | 27.8  | 27.8  | 27.8  |
| 47.5° | 45.6  | 41.1  | 35.6  | 32.2  | 30.0  | 27.8  | 26.7  | 25.6  | 25.6  | 25.6  |
| 50°   | 42.2  | 37.8  | 33.4  | 30.0  | 27.8  | 25.6  | 24.5  | 23.3  | 23.3  | 23.3  |
| 52.5° | 37.8  | 34.5  | 31.1  | 27.8  | 25.6  | 23.3  | 22.2  | 21.1  | 21.1  | 21.1  |
| 55°   | 34.5  | 31.1  | 27.8  | 25.6  | 23.3  | 21.1  | 20.0  | 18.9  | 18.9  | 18.9  |
| 57.5° | 31.1  | 27.8  | 25.6  | 23.3  | 21.1  | 20.0  | 17.8  | 17.8  | 16.7  | 16.7  |
| 60°   | 27.8  | 24.5  | 22.2  | 21.1  | 18.9  | 17.8  | 15.6  | 14.5  | 14.5  | 14.5  |
| 62.5° | 23.3  | 22.2  | 20.0  | 17.8  | 15.6  | 14.5  | 13.3  | 12.2  | 12.2  | 12.2  |
| 65°   | 20.0  | 18.9  | 16.7  | 14.5  | 13.3  | 12.2  | 11.1  | 10.0  | 10.0  | 10.0  |
| 67.5° | 16.7  | 14.5  | 13.3  | 12.2  | 11.1  | 10.0  | 8.9   | 7.8   | 6.7   | 7.8   |
| 70°   | 12.2  | 11.1  | 10.0  | 8.9   | 7.8   | 6.7   | 5.6   | 5.6   | 4.4   | 4.4   |
| 72.5° | 7.8   | 6.7   | 6.7   | 5.6   | 4.4   | 4.4   | 3.3   | 3.3   | 2.2   | 2.2   |
| 75°   | 4.4   | 4.4   | 3.3   | 3.3   | 2.2   | 2.2   | 1.1   | 1.1   | 1.1   | 1.1   |
| 77.5° | 2.2   | 1.1   | 1.1   | 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)