

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: P1446543

Luminaire Tested: P3ART05R709730DE010 E3LSWW1MW

Issue Date: 5/8/2026

**Test Information**

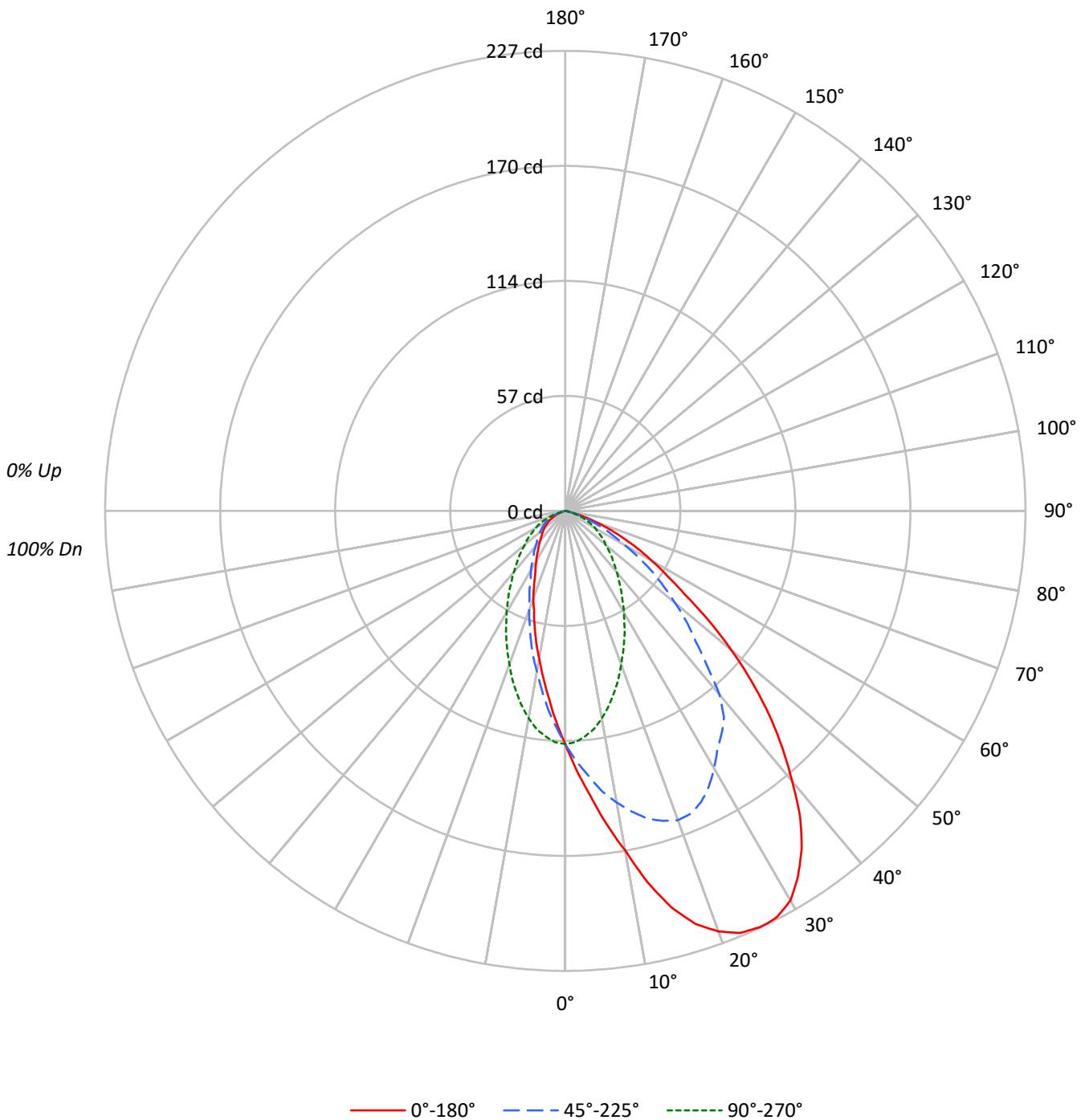
Test Method: LM-79-2019  
Report Number: P1446543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART05R709730DE010 E3LSWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3LSWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 229.0 lumens  
Efficiency: N/A  
Efficacy: 31.8 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): 7.2  
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





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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  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  | 89  | 89  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 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°  | 25217 | 25217 | 25217 | 25217 | 25217 |
| 5°  | 31015 | 28880 | 24587 | 21594 | 20449 |
| 10° | 37897 | 32531 | 23135 | 17924 | 16477 |
| 15° | 45993 | 35687 | 21090 | 14892 | 13280 |
| 20° | 51524 | 37897 | 18785 | 12134 | 10758 |
| 25° | 54850 | 38349 | 16646 | 10065 | 8492  |
| 30° | 56237 | 37170 | 14635 | 8558  | 7242  |
| 35° | 54422 | 35978 | 12876 | 7308  | 6264  |
| 40° | 49836 | 33835 | 11336 | 6498  | 5582  |
| 45° | 44098 | 28189 | 10079 | 6047  | 5024  |
| 50° | 36570 | 24153 | 8870  | 5526  | 4640  |
| 55° | 27564 | 20109 | 8181  | 5199  | 4205  |
| 60° | 21665 | 15087 | 7412  | 4824  | 3684  |
| 65° | 16189 | 11104 | 6382  | 4047  | 3009  |
| 70° | 10386 | 7052  | 4552  | 2885  | 1667  |
| 75° | 4406  | 3813  | 2203  | 1101  | 508   |
| 80° | 758   | 758   | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 44098 cd/sqm



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**ZONAL LUMENS:**

| Zone            | Lumens       | % Fixture    |
|-----------------|--------------|--------------|
| 0°-10°          | 10.9         | 4.8          |
| 10°-20°         | 31.4         | 13.7         |
| 20°-30°         | 45.9         | 20.0         |
| 30°-40°         | 50.0         | 21.8         |
| 40°-50°         | 43.3         | 18.9         |
| 50°-60°         | 29.0         | 12.7         |
| 60°-70°         | 15.0         | 6.5          |
| 70°-80°         | 3.5          | 1.5          |
| 80°-90°         | 0.0          | 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>88.2</b>  | <b>38.5</b>  |
| <b>0°-40°</b>   | <b>138.2</b> | <b>60.4</b>  |
| <b>0°-60°</b>   | <b>210.4</b> | <b>91.9</b>  |
| <b>0°-90°</b>   | <b>229.0</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>229.0</b> | <b>100.0</b> |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 115 | 115 | 115 | 115  | 115  |      |
| 5°  | 141 | 131 | 112 | 98   | 93   | 14   |
| 15° | 203 | 157 | 93  | 66   | 58   | 57   |
| 25° | 227 | 158 | 69  | 42   | 35   | 104  |
| 35° | 203 | 134 | 48  | 27   | 23   | 126  |
| 45° | 142 | 91  | 32  | 20   | 16   | 109  |
| 55° | 72  | 53  | 21  | 14   | 11   | 67   |
| 65° | 31  | 21  | 12  | 8    | 6    | 31   |
| 75° | 5   | 4   | 3   | 1    | 1    | 7    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1446543

CATALOG NUMBER: P3ART05R709730DE010 E3LSWW1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 |
| 2.5°  | 128.0 | 127.3 | 127.3 | 126.0 | 124.7 | 123.4 | 121.5 | 119.5 | 117.6 | 115.6 | 114.3 |
| 5°    | 140.9 | 141.6 | 140.9 | 138.3 | 135.1 | 131.2 | 127.3 | 122.8 | 118.2 | 114.3 | 111.7 |
| 7.5°  | 155.9 | 155.9 | 153.9 | 150.7 | 146.1 | 139.6 | 133.1 | 125.4 | 118.2 | 111.7 | 108.5 |
| 10°   | 170.2 | 170.2 | 166.9 | 161.7 | 154.6 | 146.1 | 137.0 | 126.7 | 116.9 | 107.8 | 103.9 |
| 12.5° | 187.7 | 187.1 | 183.2 | 174.7 | 164.3 | 152.0 | 139.6 | 126.7 | 115.0 | 103.9 | 98.7  |
| 15°   | 202.6 | 202.0 | 196.8 | 186.4 | 172.8 | 157.2 | 140.3 | 125.4 | 111.1 | 98.7  | 92.9  |
| 17.5° | 213.7 | 212.4 | 206.5 | 195.5 | 179.9 | 160.4 | 140.9 | 122.8 | 106.5 | 92.9  | 87.0  |
| 20°   | 220.8 | 220.2 | 213.7 | 200.7 | 183.8 | 162.4 | 140.3 | 119.5 | 102.0 | 87.0  | 80.5  |
| 22.5° | 225.4 | 224.1 | 217.6 | 203.3 | 183.8 | 161.7 | 137.7 | 115.0 | 96.1  | 81.2  | 74.7  |
| 25°   | 226.7 | 226.0 | 218.2 | 202.6 | 181.9 | 158.5 | 133.8 | 110.4 | 90.3  | 75.3  | 68.8  |
| 26°   | 226.7 | 226.0 | 218.2 | 202.0 | 180.6 | 156.5 | 131.8 | 108.5 | 88.3  | 72.7  | 66.9  |
| 27.5° | 226.0 | 225.4 | 216.9 | 200.0 | 178.0 | 153.3 | 128.0 | 104.6 | 84.4  | 69.5  | 63.0  |
| 30°   | 222.1 | 220.8 | 212.4 | 195.5 | 172.1 | 146.8 | 121.5 | 98.7  | 78.6  | 63.7  | 57.8  |
| 32.5° | 213.7 | 212.4 | 203.3 | 187.7 | 165.6 | 139.6 | 114.3 | 92.2  | 72.7  | 57.8  | 52.6  |
| 35°   | 203.3 | 202.0 | 192.9 | 178.0 | 156.5 | 134.4 | 106.5 | 85.1  | 66.2  | 53.3  | 48.1  |
| 37.5° | 190.3 | 188.4 | 180.6 | 165.0 | 145.5 | 128.6 | 100.0 | 77.9  | 60.4  | 48.1  | 43.5  |
| 40°   | 174.1 | 173.4 | 166.3 | 152.0 | 132.5 | 118.2 | 96.1  | 77.9  | 55.2  | 43.5  | 39.6  |
| 42.5° | 158.5 | 157.2 | 150.7 | 138.3 | 120.8 | 103.3 | 84.4  | 74.7  | 51.3  | 39.0  | 35.7  |
| 45°   | 142.2 | 140.9 | 135.1 | 124.7 | 108.5 | 90.9  | 90.9  | 64.3  | 44.2  | 35.7  | 32.5  |
| 47.5° | 124.7 | 123.4 | 118.9 | 111.1 | 96.8  | 81.2  | 66.2  | 52.6  | 40.3  | 31.8  | 29.2  |
| 50°   | 107.2 | 107.8 | 103.9 | 96.1  | 85.1  | 70.8  | 57.2  | 44.2  | 34.4  | 28.6  | 26.0  |
| 52.5° | 89.6  | 89.0  | 86.4  | 81.2  | 73.4  | 61.1  | 48.7  | 37.7  | 29.9  | 25.3  | 24.0  |
| 55°   | 72.1  | 72.7  | 71.4  | 68.2  | 61.7  | 52.6  | 40.9  | 32.5  | 26.6  | 22.7  | 21.4  |
| 57.5° | 59.8  | 60.4  | 57.8  | 55.9  | 50.7  | 42.9  | 33.8  | 27.3  | 22.7  | 20.1  | 18.8  |
| 60°   | 49.4  | 50.0  | 48.1  | 45.5  | 41.6  | 34.4  | 27.3  | 22.7  | 20.1  | 18.2  | 16.9  |
| 62.5° | 40.3  | 39.6  | 38.3  | 35.7  | 32.5  | 27.3  | 22.1  | 18.8  | 16.9  | 15.6  | 14.9  |
| 65°   | 31.2  | 31.2  | 29.9  | 27.9  | 25.3  | 21.4  | 17.5  | 15.6  | 14.3  | 13.0  | 12.3  |
| 67.5° | 23.4  | 23.4  | 22.1  | 20.8  | 18.2  | 15.6  | 13.6  | 12.3  | 11.7  | 10.4  | 9.7   |
| 70°   | 16.2  | 16.2  | 15.6  | 14.9  | 13.0  | 11.0  | 10.4  | 9.1   | 8.4   | 7.8   | 7.1   |
| 72.5° | 10.4  | 10.4  | 10.4  | 9.1   | 8.4   | 7.1   | 7.1   | 6.5   | 5.8   | 5.2   | 5.2   |
| 75°   | 5.2   | 5.8   | 5.2   | 5.2   | 4.5   | 4.5   | 3.9   | 3.9   | 3.2   | 3.2   | 2.6   |
| 77.5° | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |
| 80°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 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°    | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 |
| 2.5°  | 113.0 | 111.1 | 109.8 | 107.8 | 106.5 | 105.2 | 104.6 | 103.9 | 103.9 | 103.9 |
| 5°    | 109.8 | 106.5 | 103.3 | 100.0 | 98.1  | 96.1  | 94.2  | 93.5  | 92.9  | 92.9  |
| 7.5°  | 105.9 | 100.7 | 96.1  | 92.2  | 89.0  | 87.0  | 85.1  | 83.8  | 83.1  | 83.1  |
| 10°   | 100.7 | 94.2  | 89.0  | 83.8  | 80.5  | 77.9  | 76.6  | 74.7  | 74.7  | 74.0  |
| 12.5° | 94.8  | 87.0  | 81.2  | 76.6  | 73.4  | 70.1  | 68.2  | 66.9  | 66.2  | 66.2  |
| 15°   | 88.3  | 80.5  | 74.0  | 68.8  | 65.6  | 62.4  | 60.4  | 59.1  | 58.5  | 58.5  |
| 17.5° | 81.8  | 73.4  | 66.9  | 61.7  | 58.5  | 55.2  | 53.3  | 52.0  | 52.0  | 51.3  |
| 20°   | 75.3  | 66.9  | 60.4  | 55.2  | 52.0  | 49.4  | 47.4  | 46.1  | 45.5  | 46.1  |
| 22.5° | 69.5  | 61.1  | 54.6  | 50.0  | 46.1  | 43.5  | 41.6  | 40.9  | 40.3  | 40.3  |
| 25°   | 63.0  | 55.2  | 49.4  | 44.8  | 41.6  | 39.0  | 37.0  | 36.4  | 35.7  | 35.1  |
| 26°   | 61.1  | 53.3  | 47.4  | 42.9  | 39.6  | 37.0  | 35.7  | 34.4  | 33.8  | 33.8  |
| 27.5° | 58.5  | 50.0  | 44.8  | 40.3  | 37.0  | 35.1  | 33.1  | 32.5  | 31.8  | 31.8  |
| 30°   | 52.6  | 45.5  | 40.3  | 36.4  | 33.8  | 31.2  | 29.9  | 29.2  | 28.6  | 28.6  |
| 32.5° | 48.1  | 40.9  | 36.4  | 33.1  | 30.5  | 28.6  | 27.3  | 26.0  | 26.0  | 26.0  |
| 35°   | 43.5  | 37.0  | 33.1  | 29.9  | 27.3  | 25.3  | 24.7  | 24.0  | 23.4  | 23.4  |
| 37.5° | 39.6  | 33.8  | 29.9  | 27.3  | 25.3  | 23.4  | 22.1  | 21.4  | 21.4  | 21.4  |
| 40°   | 35.7  | 31.2  | 27.3  | 24.7  | 22.7  | 21.4  | 20.1  | 19.5  | 19.5  | 19.5  |
| 42.5° | 32.5  | 27.9  | 25.3  | 22.7  | 20.8  | 19.5  | 18.8  | 18.2  | 17.5  | 17.5  |
| 45°   | 29.9  | 26.0  | 22.7  | 20.8  | 19.5  | 18.2  | 16.9  | 16.2  | 16.2  | 16.2  |
| 47.5° | 26.6  | 24.0  | 20.8  | 18.8  | 17.5  | 16.2  | 15.6  | 14.9  | 14.9  | 14.9  |
| 50°   | 24.7  | 22.1  | 19.5  | 17.5  | 16.2  | 14.9  | 14.3  | 13.6  | 13.6  | 13.6  |
| 52.5° | 22.1  | 20.1  | 18.2  | 16.2  | 14.9  | 13.6  | 13.0  | 12.3  | 12.3  | 12.3  |
| 55°   | 20.1  | 18.2  | 16.2  | 14.9  | 13.6  | 12.3  | 11.7  | 11.0  | 11.0  | 11.0  |
| 57.5° | 18.2  | 16.2  | 14.9  | 13.6  | 12.3  | 11.7  | 10.4  | 10.4  | 9.7   | 9.7   |
| 60°   | 16.2  | 14.3  | 13.0  | 12.3  | 11.0  | 10.4  | 9.1   | 8.4   | 8.4   | 8.4   |
| 62.5° | 13.6  | 13.0  | 11.7  | 10.4  | 9.1   | 8.4   | 7.8   | 7.1   | 7.1   | 7.1   |
| 65°   | 11.7  | 11.0  | 9.7   | 8.4   | 7.8   | 7.1   | 6.5   | 5.8   | 5.8   | 5.8   |
| 67.5° | 9.7   | 8.4   | 7.8   | 7.1   | 6.5   | 5.8   | 5.2   | 4.5   | 3.9   | 4.5   |
| 70°   | 7.1   | 6.5   | 5.8   | 5.2   | 4.5   | 3.9   | 3.2   | 3.2   | 2.6   | 2.6   |
| 72.5° | 4.5   | 3.9   | 3.9   | 3.2   | 2.6   | 2.6   | 1.9   | 1.9   | 1.3   | 1.3   |
| 75°   | 2.6   | 2.6   | 1.9   | 1.9   | 1.3   | 1.3   | 0.6   | 0.6   | 0.6   | 0.6   |
| 77.5° | 1.3   | 0.6   | 0.6   | 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)