

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: P1313625

Luminaire Tested: P3SQAS17R609730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R609730DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

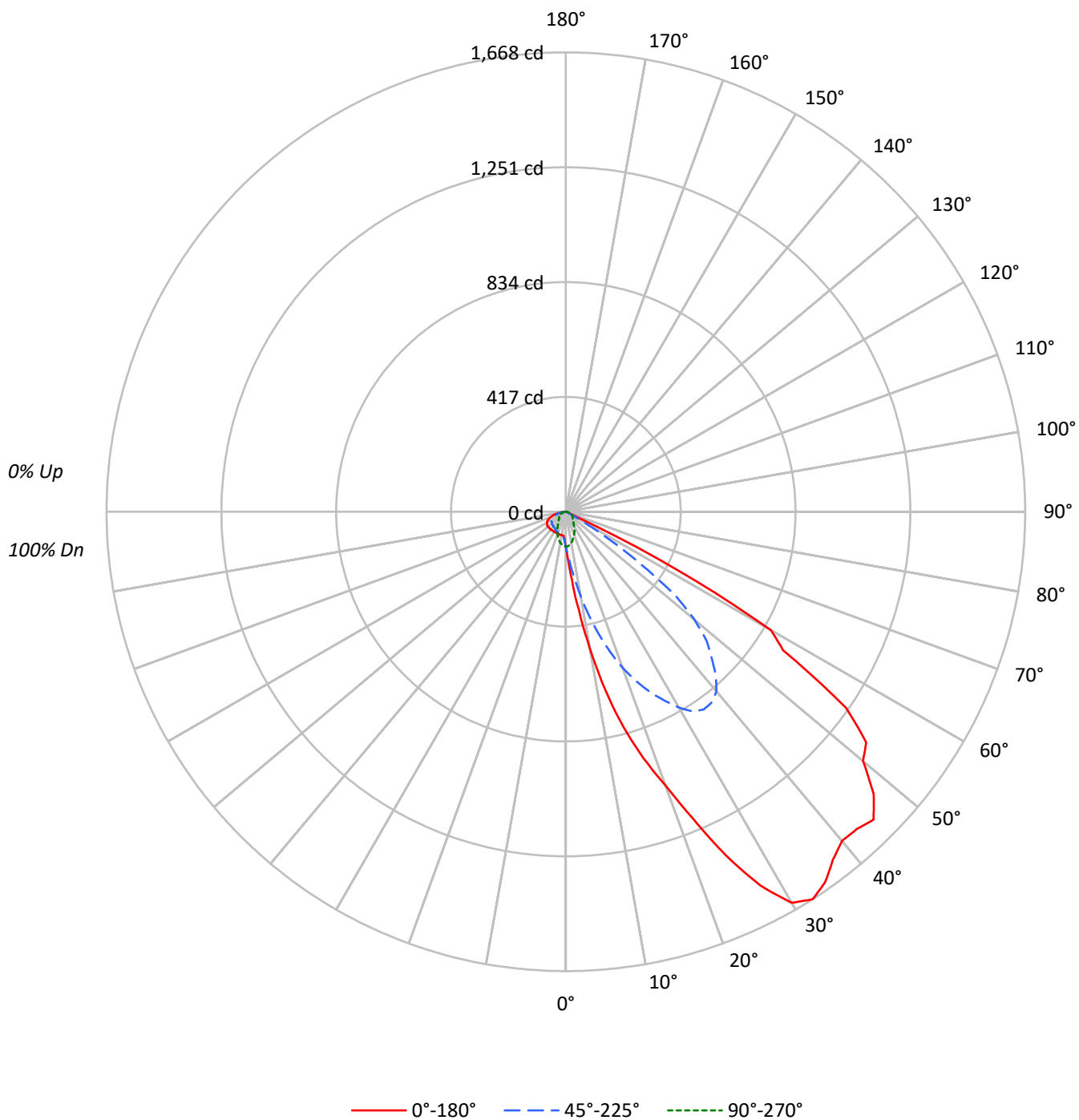
Lumens per Lamp: N/A  
Luminaire Lumens: 1270.0 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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: P1313625

CATALOG NUMBER: P3SQAS17R609730DE010 E3SQCA451MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1313625

CATALOG NUMBER: P3SQAS17R609730DE010 E3SQCA451MMS

**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 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 22  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 21666  | 21666  | 21666 | 21666 | 21666 |
| 5°  | 42719  | 33331  | 21351 | 16164 | 15369 |
| 10° | 88227  | 54300  | 19989 | 14742 | 14935 |
| 15° | 144297 | 81518  | 17901 | 14817 | 15227 |
| 20° | 193594 | 110442 | 16073 | 14809 | 15450 |
| 25° | 261933 | 137104 | 14043 | 14689 | 16019 |
| 30° | 326000 | 163229 | 11713 | 14696 | 16764 |
| 35° | 345138 | 183985 | 9945  | 15054 | 17471 |
| 40° | 350653 | 191277 | 9083  | 15580 | 18952 |
| 45° | 384922 | 182207 | 8719  | 16586 | 20532 |
| 50° | 377354 | 163304 | 8654  | 17630 | 22587 |
| 55° | 372984 | 100167 | 8678  | 19067 | 24952 |
| 60° | 295844 | 23870  | 9162  | 20288 | 27039 |
| 65° | 18827  | 4238   | 8925  | 20702 | 29178 |
| 70° | 4079   | 4633   | 8711  | 21501 | 30817 |
| 75° | 3859   | 4591   | 7652  | 20761 | 31474 |
| 80° | 3471   | 4562   | 8034  | 20629 | 29754 |
| 85° | 2371   | 4545   | 9090  | 18180 | 29640 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 406282 cd/sqm

TEST NUMBER: P1313625

CATALOG NUMBER: P3SQAS17R609730DE010 E3SQCA451MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.7   | 1.2       |
| 10°-20°   | 79.2   | 6.2       |
| 20°-30°   | 183.6  | 14.5      |
| 30°-40°   | 285.5  | 22.5      |
| 40°-50°   | 325.3  | 25.6      |
| 50°-60°   | 274.0  | 21.6      |
| 60°-70°   | 79.5   | 6.3       |
| 70°-80°   | 20.4   | 1.6       |
| 80°-90°   | 6.9    | 0.5       |
| 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°    | 278.5  | 21.9      |
| 0°-40°    | 564.0  | 44.4      |
| 0°-60°    | 1163.3 | 91.6      |
| 0°-90°    | 1270.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1270.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 126  | 126 | 126 | 126  | 126  |      |
| 5°  | 247  | 193 | 124 | 94   | 89   | 32   |
| 15° | 809  | 457 | 100 | 83   | 85   | 234  |
| 25° | 1378 | 722 | 74  | 77   | 84   | 640  |
| 35° | 1642 | 875 | 47  | 72   | 83   | 1020 |
| 45° | 1580 | 748 | 36  | 68   | 84   | 1188 |
| 55° | 1242 | 334 | 29  | 64   | 83   | 1045 |
| 65° | 46   | 10  | 22  | 51   | 72   | 228  |
| 75° | 6    | 7   | 12  | 31   | 47   | 6    |
| 85° | 1    | 2   | 5   | 9    | 15   | 2    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1313625

CATALOG NUMBER: P3SQAS17R609730DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°   | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 125.8  | 125.8  | 125.8  | 125.8  | 125.8  | 125.8  | 125.8  | 125.8  | 125.8 | 125.8 | 125.8 |
| 2.5°  | 169.7  | 168.5  | 168.5  | 167.4  | 166.2  | 165.1  | 161.6  | 160.5  | 153.5 | 139.7 | 125.8 |
| 5°    | 247.1  | 245.9  | 242.4  | 241.3  | 235.5  | 227.4  | 219.3  | 211.3  | 192.8 | 153.5 | 123.5 |
| 7.5°  | 357.9  | 360.2  | 357.9  | 345.2  | 337.1  | 324.4  | 300.2  | 282.8  | 245.9 | 167.4 | 118.9 |
| 10°   | 504.5  | 504.5  | 501.0  | 481.4  | 464.1  | 439.8  | 408.7  | 378.7  | 310.5 | 180.1 | 114.3 |
| 12.5° | 663.8  | 667.3  | 650.0  | 633.8  | 602.6  | 572.6  | 529.9  | 484.9  | 384.4 | 190.5 | 108.5 |
| 15°   | 809.3  | 807.0  | 789.6  | 768.9  | 736.5  | 695.0  | 650.0  | 592.2  | 457.2 | 197.4 | 100.4 |
| 17.5° | 938.6  | 933.9  | 918.9  | 895.9  | 856.6  | 810.4  | 752.7  | 690.4  | 532.2 | 203.2 | 94.7  |
| 20°   | 1056.3 | 1040.2 | 1022.8 | 998.6  | 960.5  | 912.0  | 852.0  | 781.6  | 602.6 | 203.2 | 87.7  |
| 22.5° | 1205.2 | 1189.1 | 1164.8 | 1127.9 | 1077.1 | 1017.1 | 946.6  | 867.0  | 665.0 | 198.6 | 80.8  |
| 25°   | 1378.4 | 1365.7 | 1324.2 | 1276.8 | 1211.0 | 1139.4 | 1057.5 | 950.1  | 721.5 | 191.6 | 73.9  |
| 27.5° | 1529.6 | 1515.8 | 1474.2 | 1405.0 | 1325.3 | 1239.9 | 1153.3 | 1043.6 | 771.2 | 178.9 | 65.8  |
| 30°   | 1639.3 | 1622.0 | 1589.7 | 1523.9 | 1426.9 | 1323.0 | 1220.3 | 1115.2 | 820.8 | 163.9 | 58.9  |
| 32.5° | 1668.2 | 1665.9 | 1641.6 | 1593.1 | 1506.6 | 1392.3 | 1269.9 | 1155.6 | 860.1 | 144.3 | 53.1  |
| 35°   | 1641.6 | 1645.1 | 1640.5 | 1616.2 | 1552.7 | 1440.7 | 1302.2 | 1177.5 | 875.1 | 124.7 | 47.3  |
| 37.5° | 1593.1 | 1597.8 | 1605.8 | 1609.3 | 1568.9 | 1469.6 | 1320.7 | 1186.8 | 871.6 | 105.1 | 43.9  |
| 40°   | 1559.7 | 1557.3 | 1557.3 | 1580.4 | 1572.4 | 1482.3 | 1323.0 | 1179.8 | 850.8 | 84.3  | 40.4  |
| 42.5° | 1563.1 | 1537.7 | 1520.4 | 1557.3 | 1568.9 | 1476.5 | 1308.0 | 1161.4 | 805.8 | 64.6  | 36.9  |
| 45°   | 1580.4 | 1526.2 | 1496.2 | 1543.5 | 1562.0 | 1456.9 | 1280.3 | 1133.7 | 748.1 | 45.0  | 35.8  |
| 47.5° | 1515.8 | 1480.0 | 1475.4 | 1542.3 | 1549.3 | 1423.4 | 1237.6 | 1089.8 | 692.7 | 31.2  | 33.5  |
| 50°   | 1408.4 | 1402.7 | 1426.9 | 1496.2 | 1497.3 | 1368.0 | 1189.1 | 1010.1 | 609.5 | 21.9  | 32.3  |
| 52.5° | 1374.9 | 1378.4 | 1400.3 | 1436.1 | 1402.7 | 1274.5 | 1101.3 | 943.2  | 504.5 | 17.3  | 31.2  |
| 55°   | 1242.2 | 1248.0 | 1268.7 | 1290.7 | 1266.4 | 1160.2 | 995.1  | 862.4  | 333.6 | 16.2  | 28.9  |
| 57.5° | 935.1  | 950.1  | 988.2  | 1007.8 | 1010.1 | 945.5  | 901.6  | 743.5  | 188.2 | 16.2  | 27.7  |
| 60°   | 858.9  | 839.3  | 822.0  | 781.6  | 744.6  | 736.5  | 741.2  | 557.6  | 69.3  | 15.0  | 26.6  |
| 62.5° | 449.1  | 439.8  | 466.4  | 483.7  | 488.3  | 513.7  | 480.2  | 294.4  | 15.0  | 15.0  | 24.2  |
| 65°   | 46.2   | 46.2   | 56.6   | 75.0   | 124.7  | 166.2  | 158.2  | 85.4   | 10.4  | 13.9  | 21.9  |
| 67.5° | 13.9   | 13.9   | 13.9   | 16.2   | 20.8   | 20.8   | 17.3   | 12.7   | 10.4  | 12.7  | 19.6  |
| 70°   | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 9.2    | 8.1    | 9.2   | 11.5  | 17.3  |
| 72.5° | 6.9    | 6.9    | 6.9    | 6.9    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1   | 10.4  | 15.0  |
| 75°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 6.9    | 6.9   | 8.1   | 11.5  |
| 77.5° | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 5.8    | 5.8    | 5.8   | 6.9   | 9.2   |
| 80°   | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 4.6    | 4.6    | 4.6    | 4.6   | 5.8   | 8.1   |
| 82.5° | 2.3    | 2.3    | 2.3    | 2.3    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5   | 4.6   | 5.8   |
| 85°   | 1.2    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3   | 3.5   | 4.6   |
| 87.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.3   | 2.3   | 3.5   |
| 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: P1313625

CATALOG NUMBER: P3SQAS17R609730DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 125.8  | 125.8 | 125.8  | 125.8 |
| 2.5°  | 114.3  | 106.2 | 101.6  | 99.3  |
| 5°    | 103.9  | 93.5  | 90.0   | 88.9  |
| 7.5°  | 94.7   | 87.7  | 86.6   | 86.6  |
| 10°   | 88.9   | 84.3  | 85.4   | 85.4  |
| 12.5° | 85.4   | 84.3  | 85.4   | 86.6  |
| 15°   | 82.0   | 83.1  | 85.4   | 85.4  |
| 17.5° | 79.7   | 82.0  | 84.3   | 85.4  |
| 20°   | 76.2   | 80.8  | 84.3   | 84.3  |
| 22.5° | 73.9   | 79.7  | 83.1   | 84.3  |
| 25°   | 71.6   | 77.3  | 82.0   | 84.3  |
| 27.5° | 68.1   | 76.2  | 82.0   | 83.1  |
| 30°   | 64.6   | 73.9  | 80.8   | 84.3  |
| 32.5° | 61.2   | 72.7  | 80.8   | 83.1  |
| 35°   | 58.9   | 71.6  | 80.8   | 83.1  |
| 37.5° | 56.6   | 70.4  | 80.8   | 84.3  |
| 40°   | 55.4   | 69.3  | 79.7   | 84.3  |
| 42.5° | 53.1   | 69.3  | 79.7   | 84.3  |
| 45°   | 52.0   | 68.1  | 79.7   | 84.3  |
| 47.5° | 50.8   | 67.0  | 79.7   | 84.3  |
| 50°   | 48.5   | 65.8  | 78.5   | 84.3  |
| 52.5° | 47.3   | 64.6  | 78.5   | 84.3  |
| 55°   | 45.0   | 63.5  | 77.3   | 83.1  |
| 57.5° | 43.9   | 61.2  | 76.2   | 80.8  |
| 60°   | 41.6   | 58.9  | 73.9   | 78.5  |
| 62.5° | 38.1   | 55.4  | 70.4   | 76.2  |
| 65°   | 34.6   | 50.8  | 67.0   | 71.6  |
| 67.5° | 31.2   | 47.3  | 62.3   | 67.0  |
| 70°   | 27.7   | 42.7  | 56.6   | 61.2  |
| 72.5° | 24.2   | 36.9  | 50.8   | 54.3  |
| 75°   | 20.8   | 31.2  | 42.7   | 47.3  |
| 77.5° | 16.2   | 25.4  | 35.8   | 39.3  |
| 80°   | 12.7   | 20.8  | 27.7   | 30.0  |
| 82.5° | 10.4   | 15.0  | 20.8   | 21.9  |
| 85°   | 6.9    | 9.2   | 12.7   | 15.0  |
| 87.5° | 3.5    | 4.6   | 5.8    | 6.9   |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)