

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: P1308815

Luminaire Tested: P3SQAS05R359035DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R359035DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

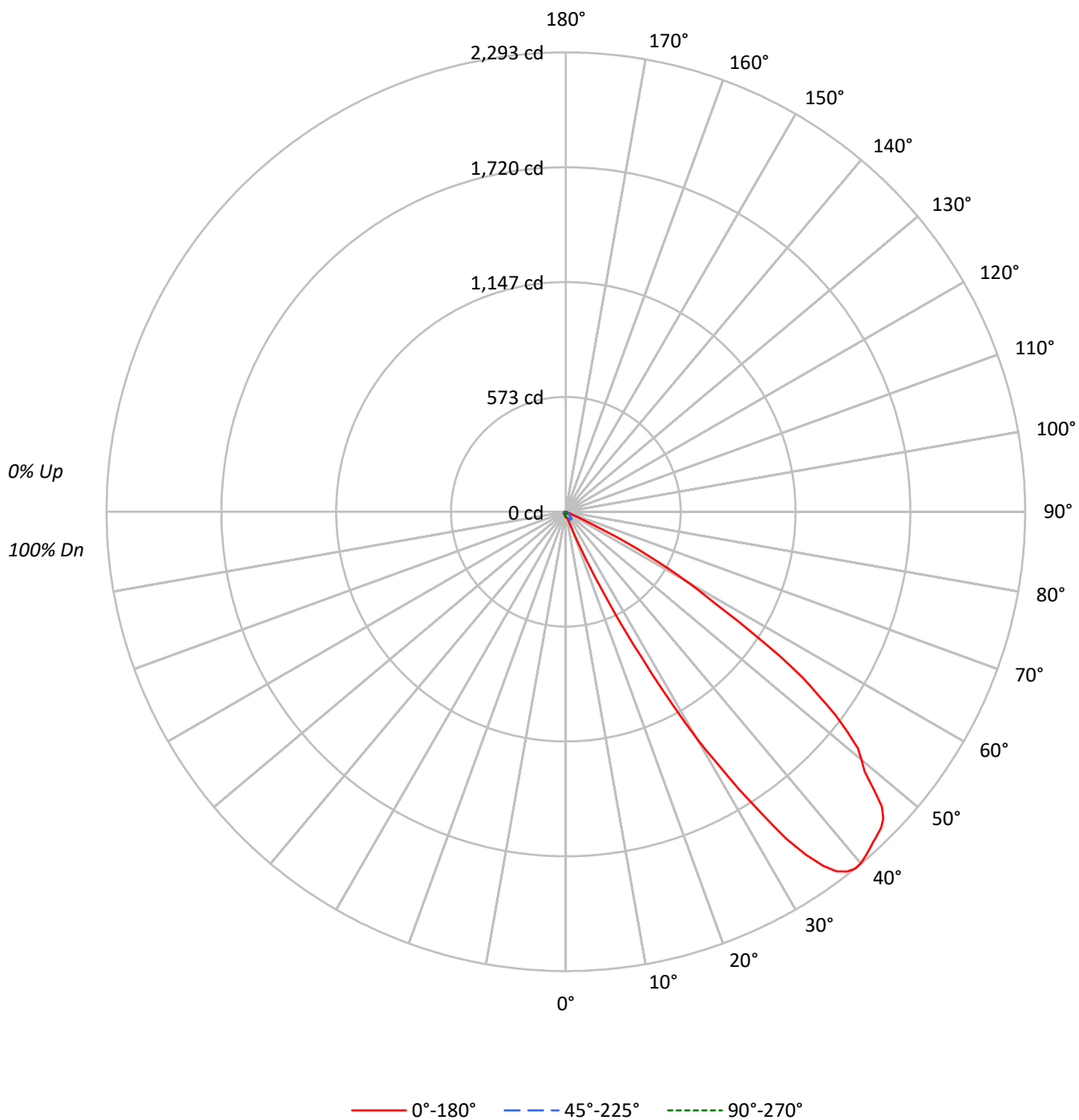
Lumens per Lamp: N/A  
Luminaire Lumens: 571.0 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

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CATALOG NUMBER: P3SQAS05R359035DE010 E3SQCA451MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1308815

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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   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  | 87  | 87  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  | 73  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  | 61  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  | 50  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  | 42  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  | 35  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  | 29  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 24  | 24  | 24  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  | 20  | 20  |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  | 17  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 4529   | 4529 | 4529 | 4529 | 4529 |
| 5°  | 4893   | 4806 | 4460 | 4011 | 3924 |
| 10° | 5141   | 4687 | 3970 | 3428 | 3428 |
| 15° | 7346   | 4600 | 3209 | 2942 | 3031 |
| 20° | 18419  | 4912 | 2548 | 2548 | 2841 |
| 25° | 85512  | 6271 | 1957 | 2356 | 2641 |
| 30° | 259957 | 8511 | 1531 | 2148 | 2665 |
| 35° | 439328 | 9860 | 1304 | 2060 | 2607 |
| 40° | 514997 | 9735 | 1034 | 2091 | 2788 |
| 45° | 542334 | 6893 | 877  | 2265 | 3020 |
| 50° | 516249 | 4153 | 831  | 2358 | 3322 |
| 55° | 432586 | 1711 | 931  | 2642 | 3873 |
| 60° | 242179 | 344  | 1068 | 3031 | 4271 |
| 65° | 41811  | 204  | 1060 | 3342 | 4849 |
| 70° | 755    | 252  | 1309 | 3626 | 5438 |
| 75° | 665    | 333  | 1730 | 4126 | 6188 |
| 80° | 496    | 496  | 2083 | 4562 | 7141 |
| 85° | 0      | 988  | 4150 | 5138 | 8102 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 546177 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.4    | 0.4       |
| 10°-20°   | 6.7    | 1.2       |
| 20°-30°   | 35.0   | 6.1       |
| 30°-40°   | 151.3  | 26.5      |
| 40°-50°   | 215.8  | 37.8      |
| 50°-60°   | 133.7  | 23.4      |
| 60°-70°   | 20.3   | 3.6       |
| 70°-80°   | 3.8    | 0.7       |
| 80°-90°   | 1.9    | 0.3       |
| 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°    | 44.1   | 7.7       |
| 0°-40°    | 195.4  | 34.2      |
| 0°-60°    | 545.0  | 95.4      |
| 0°-90°    | 571.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 571.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 26   | 26  | 26  | 26   | 26   |      |
| 5°  | 28   | 28  | 26  | 23   | 23   | 3    |
| 15° | 41   | 26  | 18  | 16   | 17   | 15   |
| 25° | 450  | 33  | 10  | 12   | 14   | 269  |
| 35° | 2090 | 47  | 6   | 10   | 12   | 1255 |
| 45° | 2227 | 28  | 4   | 9    | 12   | 1682 |
| 55° | 1441 | 6   | 3   | 9    | 13   | 1227 |
| 65° | 103  | 0   | 3   | 8    | 12   | 210  |
| 75° | 1    | 0   | 3   | 6    | 9    | 1    |
| 85° | 0    | 0   | 2   | 3    | 4    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|------|--------|
| 0°    | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3  | 26.3  | 26.3 | 26.3  | 26.3 | 26.3   |
| 2.5°  | 27.3   | 27.3   | 27.3   | 27.3   | 27.3   | 27.3  | 27.3  | 27.3 | 27.3  | 26.3 | 25.8   |
| 5°    | 28.3   | 28.3   | 27.8   | 27.8   | 27.8   | 27.8  | 27.8  | 27.8 | 26.8  | 25.8 | 24.2   |
| 7.5°  | 28.9   | 28.9   | 28.3   | 28.3   | 28.3   | 28.3  | 27.8  | 27.3 | 26.3  | 24.2 | 22.7   |
| 10°   | 29.4   | 29.4   | 29.4   | 29.4   | 28.9   | 28.3  | 27.8  | 26.8 | 25.3  | 22.7 | 21.1   |
| 12.5° | 33.0   | 33.0   | 32.5   | 31.4   | 30.4   | 29.4  | 28.3  | 26.3 | 23.2  | 20.6 | 19.1   |
| 15°   | 41.2   | 40.7   | 39.7   | 38.1   | 36.1   | 33.5  | 31.4  | 25.8 | 21.1  | 18.0 | 17.0   |
| 17.5° | 57.7   | 56.7   | 55.2   | 50.0   | 45.4   | 40.7  | 36.6  | 25.8 | 19.1  | 16.0 | 14.9   |
| 20°   | 100.5  | 101.0  | 90.2   | 77.8   | 67.5   | 56.2  | 45.9  | 26.8 | 17.0  | 13.9 | 13.4   |
| 22.5° | 209.8  | 201.5  | 175.8  | 145.9  | 111.3  | 86.1  | 64.9  | 29.4 | 14.9  | 11.9 | 11.9   |
| 25°   | 450.0  | 418.5  | 356.2  | 269.1  | 189.7  | 134.5 | 94.3  | 33.0 | 13.4  | 10.3 | 10.8   |
| 27.5° | 821.6  | 793.3  | 668.0  | 503.1  | 334.0  | 203.1 | 127.8 | 37.6 | 11.9  | 8.8  | 9.8    |
| 30°   | 1307.2 | 1228.8 | 1065.4 | 824.7  | 558.2  | 310.8 | 171.6 | 42.8 | 9.8   | 7.7  | 9.3    |
| 31°   | 1458.7 | 1422.6 | 1223.7 | 954.1  | 654.1  | 369.1 | 190.2 | 44.3 | 9.3   | 7.7  | 8.8    |
| 32°   | 1638.6 | 1574.7 | 1396.4 | 1095.8 | 751.5  | 421.1 | 212.4 | 45.9 | 8.8   | 6.7  | 8.8    |
| 33°   | 1799.4 | 1737.6 | 1520.6 | 1220.6 | 850.0  | 480.4 | 236.1 | 46.4 | 7.7   | 6.7  | 8.2    |
| 34°   | 1968.5 | 1884.0 | 1669.0 | 1351.0 | 951.0  | 544.3 | 257.7 | 46.9 | 7.2   | 6.2  | 8.2    |
| 35°   | 2089.6 | 2005.1 | 1796.9 | 1454.1 | 1038.1 | 601.0 | 282.5 | 46.9 | 6.7   | 6.2  | 7.7    |
| 36°   | 2183.4 | 2109.2 | 1907.2 | 1560.3 | 1124.7 | 652.0 | 302.1 | 46.9 | 5.7   | 5.7  | 7.7    |
| 37°   | 2247.9 | 2177.3 | 1981.4 | 1651.5 | 1190.7 | 697.4 | 319.6 | 46.9 | 5.2   | 5.7  | 7.7    |
| 38°   | 2279.3 | 2220.6 | 2053.0 | 1718.0 | 1254.6 | 733.0 | 333.5 | 45.9 | 4.6   | 5.2  | 7.2    |
| 39°   | 2292.7 | 2244.8 | 2096.8 | 1774.2 | 1302.5 | 763.9 | 343.8 | 44.8 | 4.1   | 5.2  | 7.2    |
| 40°   | 2290.7 | 2248.9 | 2121.6 | 1812.8 | 1341.2 | 785.0 | 349.5 | 43.3 | 3.6   | 4.6  | 7.2    |
| 41°   | 2278.8 | 2242.7 | 2134.5 | 1845.8 | 1364.4 | 799.5 | 351.0 | 41.8 | 3.1   | 4.6  | 6.7    |
| 42°   | 2265.4 | 2232.4 | 2138.6 | 1863.4 | 1379.3 | 804.1 | 346.9 | 39.7 | 3.1   | 4.1  | 6.7    |
| 43°   | 2251.5 | 2221.1 | 2138.6 | 1869.0 | 1383.0 | 801.0 | 340.2 | 36.1 | 2.6   | 4.1  | 6.7    |
| 44°   | 2240.1 | 2211.3 | 2131.9 | 1867.5 | 1375.2 | 789.2 | 327.8 | 32.0 | 2.1   | 4.1  | 6.7    |
| 45°   | 2226.7 | 2198.4 | 2123.1 | 1857.7 | 1360.3 | 769.1 | 312.4 | 28.3 | 1.5   | 3.6  | 6.7    |
| 46°   | 2203.0 | 2180.9 | 2107.7 | 1837.6 | 1336.6 | 741.2 | 292.8 | 25.8 | 1.0   | 3.6  | 6.2    |
| 47°   | 2157.2 | 2138.1 | 2077.8 | 1807.7 | 1305.1 | 708.2 | 272.7 | 23.2 | 1.0   | 3.6  | 6.2    |
| 48°   | 2064.9 | 2064.4 | 2018.0 | 1752.0 | 1255.1 | 667.0 | 251.5 | 20.6 | 1.0   | 3.6  | 6.2    |
| 49°   | 1975.7 | 1966.4 | 1908.7 | 1654.1 | 1183.5 | 617.5 | 229.4 | 18.6 | 0.5   | 3.6  | 6.2    |
| 50°   | 1926.8 | 1906.6 | 1811.8 | 1538.6 | 1091.7 | 549.0 | 205.7 | 15.5 | 0.5   | 3.1  | 6.2    |
| 51°   | 1875.7 | 1846.9 | 1735.0 | 1434.5 | 982.4  | 483.0 | 179.9 | 12.4 | 0.5   | 3.1  | 5.7    |
| 52°   | 1783.5 | 1756.1 | 1630.9 | 1335.0 | 876.3  | 415.5 | 155.2 | 10.3 | 0.5   | 3.1  | 6.2    |
| 53°   | 1684.0 | 1644.8 | 1508.7 | 1225.7 | 783.0  | 355.7 | 129.9 | 8.8  | 0.5   | 3.1  | 5.7    |
| 54°   | 1558.7 | 1541.2 | 1385.0 | 1091.7 | 673.7  | 297.9 | 106.7 | 7.2  | 0.5   | 3.1  | 5.7    |
| 55°   | 1440.7 | 1414.9 | 1252.5 | 954.6  | 574.7  | 244.3 | 89.2  | 5.7  | 0.5   | 3.1  | 5.7    |
| 56°   | 1290.2 | 1251.5 | 1099.5 | 828.8  | 474.2  | 196.9 | 75.3  | 4.6  | 0.5   | 3.1  | 5.7    |
| 57°   | 1110.8 | 1069.6 | 949.5  | 689.2  | 372.2  | 150.0 | 62.9  | 3.6  | 0.5   | 3.1  | 5.7    |
| 58°   | 939.7  | 904.1  | 775.2  | 531.9  | 280.4  | 104.1 | 52.1  | 2.6  | 0.5   | 2.6  | 5.7    |
| 59°   | 811.8  | 772.7  | 644.8  | 409.3  | 194.8  | 76.8  | 39.2  | 2.1  | 0.5   | 3.1  | 5.7    |
| 60°   | 703.1  | 652.6  | 519.1  | 317.0  | 139.2  | 55.2  | 28.9  | 1.0  | 1.0   | 3.1  | 5.7    |
| 62.5° | 405.1  | 357.7  | 247.9  | 128.9  | 57.2   | 28.3  | 13.9  | 0.5  | 1.0   | 3.1  | 5.7    |
| 65°   | 102.6  | 91.2   | 59.3   | 27.8   | 16.0   | 9.8   | 5.2   | 0.5  | 1.0   | 2.6  | 5.2    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 3.6 | 3.6 | 3.6 | 3.1 | 2.6 | 2.1 | 1.0 | 0.5 | 1.0   | 2.6 | 5.2    |
| 70°   | 1.5 | 1.5 | 1.5 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 1.0   | 2.6 | 4.6    |
| 72.5° | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.6 | 4.1    |
| 75°   | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.6 | 4.1    |
| 77.5° | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.1 | 3.6    |
| 80°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.1 | 3.1    |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.1 | 2.6    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 1.5   | 2.1 | 2.1    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.5   | 2.1 | 1.5    |
| 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 26.3 | 26.3   | 26.3 |
| 2.5°  | 24.7 | 24.7   | 24.7 |
| 5°    | 23.2 | 23.2   | 22.7 |
| 7.5°  | 21.6 | 21.1   | 21.1 |
| 10°   | 19.6 | 19.6   | 19.6 |
| 12.5° | 18.0 | 18.0   | 18.0 |
| 15°   | 16.5 | 17.0   | 17.0 |
| 17.5° | 14.9 | 16.0   | 16.0 |
| 20°   | 13.9 | 14.9   | 15.5 |
| 22.5° | 12.9 | 13.9   | 14.4 |
| 25°   | 12.4 | 13.4   | 13.9 |
| 27.5° | 11.3 | 12.9   | 13.9 |
| 30°   | 10.8 | 12.4   | 13.4 |
| 31°   | 10.8 | 12.4   | 12.9 |
| 32°   | 10.3 | 12.4   | 12.9 |
| 33°   | 10.3 | 12.4   | 12.9 |
| 34°   | 10.3 | 11.9   | 12.9 |
| 35°   | 9.8  | 11.9   | 12.4 |
| 36°   | 9.8  | 11.9   | 12.4 |
| 37°   | 9.8  | 11.9   | 12.9 |
| 38°   | 9.8  | 11.9   | 12.4 |
| 39°   | 9.3  | 11.9   | 12.4 |
| 40°   | 9.3  | 11.9   | 12.4 |
| 41°   | 9.3  | 11.9   | 12.4 |
| 42°   | 9.3  | 11.9   | 12.4 |
| 43°   | 9.3  | 11.9   | 12.4 |
| 44°   | 9.3  | 11.3   | 12.4 |
| 45°   | 9.3  | 11.3   | 12.4 |
| 46°   | 9.3  | 11.9   | 12.4 |
| 47°   | 9.3  | 11.9   | 12.9 |
| 48°   | 9.3  | 11.3   | 12.4 |
| 49°   | 8.8  | 11.3   | 12.4 |
| 50°   | 8.8  | 11.3   | 12.4 |
| 51°   | 8.8  | 11.9   | 12.9 |
| 52°   | 8.8  | 11.9   | 12.9 |
| 53°   | 8.8  | 11.9   | 12.9 |
| 54°   | 8.8  | 11.9   | 12.4 |
| 55°   | 8.8  | 11.9   | 12.9 |
| 56°   | 8.8  | 11.9   | 12.4 |
| 57°   | 8.8  | 11.9   | 12.4 |
| 58°   | 8.8  | 11.3   | 12.4 |
| 59°   | 8.8  | 11.3   | 12.4 |
| 60°   | 8.8  | 11.3   | 12.4 |
| 62.5° | 8.2  | 11.3   | 12.4 |
| 65°   | 8.2  | 10.8   | 11.9 |



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CATALOG NUMBER: P3SQAS05R359035DE010 E3SQCA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 7.7  | 10.8   | 11.3 |
| 70°   | 7.2  | 10.3   | 10.8 |
| 72.5° | 6.7  | 9.8    | 10.3 |
| 75°   | 6.2  | 8.8    | 9.3  |
| 77.5° | 5.2  | 7.7    | 8.8  |
| 80°   | 4.6  | 6.7    | 7.2  |
| 82.5° | 3.6  | 5.7    | 6.2  |
| 85°   | 2.6  | 4.1    | 4.1  |
| 87.5° | 1.0  | 2.1    | 2.1  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)