

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P417448

Luminaire Tested: **SMD6S69SWH - 3000K**

Issue Date: 11/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P417448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2007930D001)  
Test Lab:  
Issue Date: 11/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD6S69SWH - 3000K  
Description: SMD SELECTABLE CCT 3000K  
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

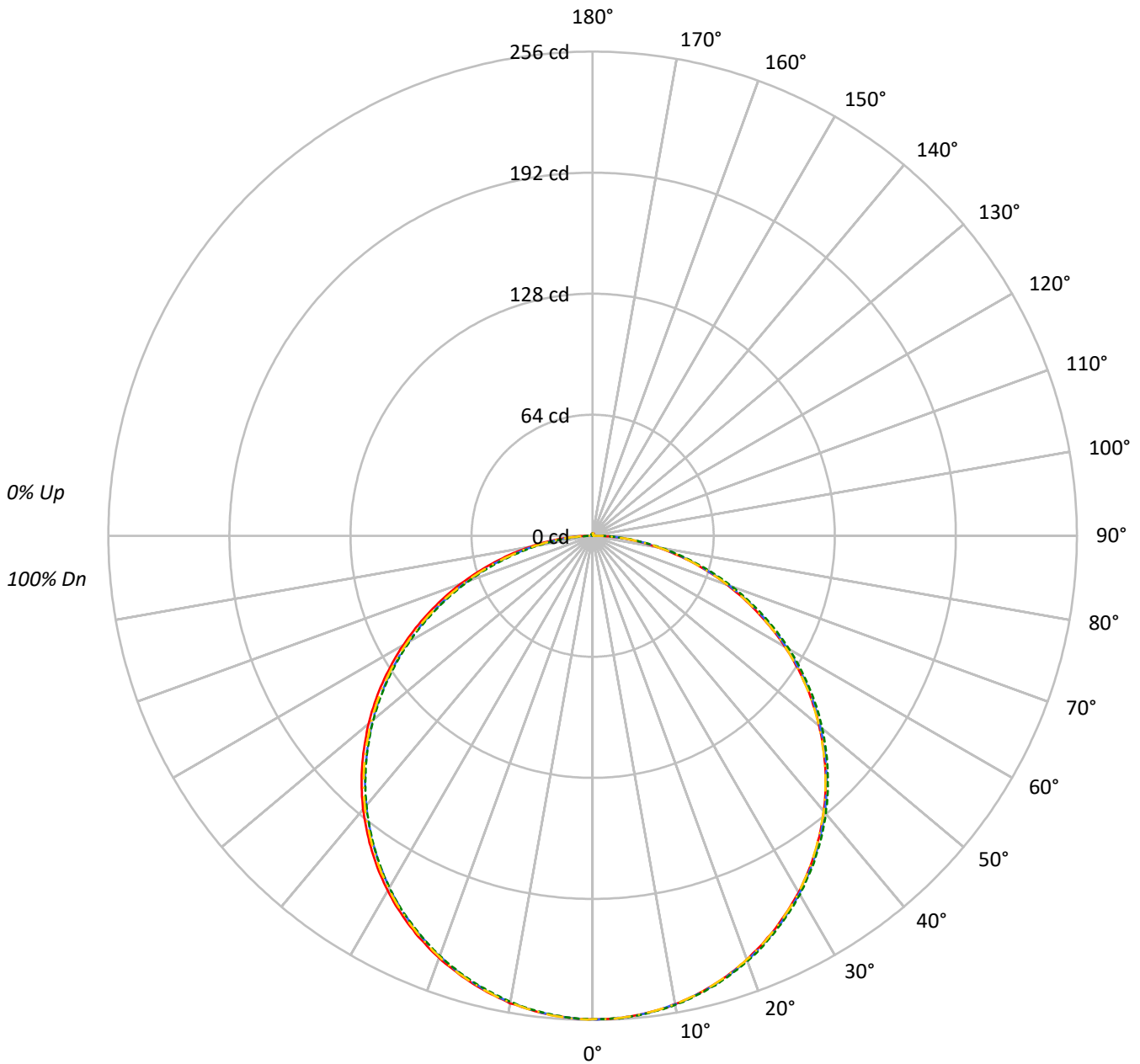
Lumens per Lamp: N/A  
Luminaire Lumens: 751.5 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.2  
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: 25 FT



TEST NUMBER: P417448  
CATALOG NUMBER: SMD6S69SWH - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P417448

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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 |    |    |   |
| 1   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 83  |    |    |   |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 68  |    |    |   |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 57  |    |    |   |
| 4   | 82  | 70  | 61  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |    |    |   |
| 7   | 64  | 51  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |    |    |   |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  | 43  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 36  | 30  | 25  | 23  |    |    |   |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 11005 | 11005 | 11005 | 11005 |
| 5°  | 11004 | 11012 | 10991 | 10978 |
| 10° | 10991 | 11009 | 10978 | 10939 |
| 15° | 10965 | 10992 | 10925 | 10885 |
| 20° | 10923 | 10964 | 10877 | 10827 |
| 25° | 10874 | 10927 | 10832 | 10756 |
| 30° | 10828 | 10893 | 10774 | 10679 |
| 35° | 10765 | 10833 | 10691 | 10581 |
| 40° | 10679 | 10775 | 10612 | 10460 |
| 45° | 10589 | 10698 | 10491 | 10309 |
| 50° | 10469 | 10603 | 10356 | 10128 |
| 55° | 10329 | 10494 | 10179 | 9901  |
| 60° | 10109 | 10333 | 9954  | 9610  |
| 65° | 9831  | 10106 | 9678  | 9230  |
| 70° | 9530  | 9857  | 9316  | 8737  |
| 75° | 9116  | 9499  | 8883  | 8085  |
| 80° | 8629  | 9149  | 8306  | 7116  |
| 85° | 8398  | 9189  | 7904  | 5632  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.2   | 3.2       |
| 10°-20°   | 69.3   | 9.2       |
| 20°-30°   | 105.2  | 14.0      |
| 30°-40°   | 127.3  | 16.9      |
| 40°-50°   | 132.9  | 17.7      |
| 50°-60°   | 121.3  | 16.1      |
| 60°-70°   | 93.9   | 12.5      |
| 70°-80°   | 56.2   | 7.5       |
| 80°-90°   | 17.5   | 2.3       |
| 90°-100°  | 0.5    | 0.1       |
| 100°-110° | 0.5    | 0.1       |
| 110°-120° | 0.5    | 0.1       |
| 120°-130° | 0.5    | 0.1       |
| 130°-140° | 0.5    | 0.1       |
| 140°-150° | 0.5    | 0.1       |
| 150°-160° | 0.4    | 0.1       |
| 160°-170° | 0.3    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 198.6  | 26.4      |
| 0°-40°    | 325.9  | 43.4      |
| 0°-60°    | 580.1  | 77.2      |
| 0°-90°    | 747.8  | 99.5      |
| 90°-120°  | 1.4    | 0.2       |
| 90°-150°  | 2.9    | 0.4       |
| 90°-180°  | 4.0    | 0.5       |
| 0°-180°   | 751.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 256 | 256 | 256  | 256  | 256  |      |
| 5°   | 255 | 255 | 254  | 254  | 255  | 24   |
| 15°  | 246 | 247 | 245  | 244  | 246  | 69   |
| 25°  | 229 | 230 | 228  | 226  | 229  | 105  |
| 35°  | 205 | 206 | 203  | 201  | 205  | 128  |
| 45°  | 174 | 176 | 172  | 169  | 174  | 134  |
| 55°  | 138 | 140 | 136  | 132  | 138  | 123  |
| 65°  | 96  | 99  | 95   | 91   | 96   | 96   |
| 75°  | 55  | 57  | 53   | 49   | 55   | 58   |
| 85°  | 17  | 19  | 16   | 11   | 17   | 17   |
| 90°  | 1   | 3   | 0    | 1    | 1    | 2    |
| 95°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 105° | 0   | 0   | 0    | 0    | 0    | 1    |
| 115° | 0   | 0   | 0    | 0    | 0    | 0    |
| 125° | 0   | 0   | 1    | 0    | 0    | 1    |
| 135° | 1   | 0   | 1    | 0    | 1    | 1    |
| 145° | 1   | 0   | 1    | 1    | 1    | 1    |
| 155° | 1   | 1   | 1    | 1    | 1    | 0    |
| 165° | 1   | 1   | 1    | 1    | 1    | 0    |
| 175° | 1   | 1   | 1    | 1    | 1    | 0    |
| 180° | 1   | 1   | 1    | 1    | 1    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6  | 255.6 | 255.6  | 255.6 | 255.6  | 255.6 |
| 0.5°  | 255.7 | 255.7 | 255.8 | 255.8 | 255.6 | 255.7  | 255.6 | 255.7  | 255.7 | 255.5  | 255.9 |
| 1°    | 255.6 | 255.7 | 255.6 | 255.7 | 255.6 | 255.7  | 255.8 | 255.5  | 255.5 | 255.5  | 255.6 |
| 1.5°  | 255.7 | 255.5 | 255.7 | 255.6 | 255.6 | 255.6  | 255.7 | 255.6  | 255.6 | 255.4  | 255.5 |
| 2°    | 255.5 | 255.6 | 255.6 | 255.6 | 255.5 | 255.6  | 255.7 | 255.6  | 255.4 | 255.4  | 255.4 |
| 2.5°  | 255.5 | 255.5 | 255.5 | 255.6 | 255.4 | 255.5  | 255.6 | 255.4  | 255.3 | 255.1  | 255.2 |
| 3°    | 255.5 | 255.3 | 255.2 | 255.4 | 255.7 | 255.6  | 255.3 | 255.2  | 255.1 | 255.1  | 255.0 |
| 3.5°  | 255.3 | 255.1 | 255.4 | 255.3 | 255.4 | 255.4  | 255.3 | 255.0  | 254.9 | 254.9  | 254.9 |
| 4°    | 255.1 | 255.0 | 255.1 | 255.1 | 255.3 | 255.1  | 255.0 | 254.8  | 254.6 | 254.7  | 254.6 |
| 4.5°  | 254.9 | 254.8 | 254.9 | 255.0 | 255.1 | 255.0  | 254.9 | 254.8  | 254.6 | 254.3  | 254.5 |
| 5°    | 254.6 | 254.6 | 254.7 | 254.8 | 254.8 | 254.6  | 254.7 | 254.6  | 254.3 | 254.3  | 254.2 |
| 5.5°  | 254.4 | 254.3 | 254.6 | 254.7 | 254.7 | 254.6  | 254.5 | 254.4  | 254.0 | 253.8  | 253.9 |
| 6°    | 254.2 | 254.2 | 254.3 | 254.4 | 254.4 | 254.4  | 254.2 | 254.1  | 253.8 | 253.7  | 253.6 |
| 6.5°  | 253.9 | 253.8 | 254.0 | 254.2 | 254.2 | 254.1  | 253.9 | 253.8  | 253.5 | 253.2  | 253.5 |
| 7°    | 253.6 | 253.6 | 253.8 | 253.8 | 253.9 | 253.7  | 253.6 | 253.5  | 253.1 | 253.1  | 252.9 |
| 7.5°  | 253.3 | 253.1 | 253.6 | 253.6 | 253.5 | 253.5  | 253.3 | 253.3  | 252.8 | 252.8  | 252.7 |
| 8°    | 253.0 | 252.9 | 253.1 | 253.3 | 253.3 | 253.1  | 252.9 | 252.7  | 252.3 | 252.3  | 252.3 |
| 8.5°  | 252.6 | 252.6 | 252.8 | 252.8 | 253.0 | 252.7  | 252.7 | 252.5  | 252.1 | 251.8  | 251.8 |
| 9°    | 252.5 | 252.2 | 252.3 | 252.4 | 252.6 | 252.5  | 252.3 | 252.1  | 251.5 | 251.5  | 251.3 |
| 9.5°  | 251.8 | 251.8 | 251.9 | 252.0 | 252.3 | 252.5  | 251.9 | 251.7  | 251.1 | 251.0  | 250.9 |
| 10°   | 251.4 | 251.4 | 251.5 | 251.6 | 251.8 | 251.7  | 251.3 | 251.2  | 251.1 | 250.5  | 250.5 |
| 10.5° | 251.0 | 251.0 | 251.2 | 251.3 | 251.4 | 251.3  | 250.9 | 250.8  | 250.3 | 250.1  | 249.9 |
| 11°   | 250.5 | 250.5 | 250.6 | 250.7 | 251.0 | 250.8  | 250.4 | 250.3  | 249.8 | 249.5  | 249.4 |
| 11.5° | 250.1 | 250.0 | 250.3 | 250.2 | 250.4 | 250.3  | 250.0 | 249.7  | 249.3 | 249.0  | 248.9 |
| 12°   | 249.5 | 249.4 | 249.5 | 249.8 | 250.0 | 249.7  | 249.4 | 249.2  | 248.6 | 248.6  | 248.4 |
| 12.5° | 249.1 | 248.9 | 249.1 | 249.2 | 249.4 | 249.3  | 249.0 | 248.6  | 248.2 | 247.7  | 247.7 |
| 13°   | 248.4 | 248.4 | 248.6 | 248.6 | 248.9 | 248.8  | 248.3 | 247.9  | 247.6 | 247.3  | 247.1 |
| 13.5° | 247.9 | 247.8 | 248.0 | 248.1 | 248.4 | 248.2  | 247.8 | 247.4  | 247.0 | 246.6  | 246.5 |
| 14°   | 247.3 | 247.3 | 247.5 | 247.5 | 247.8 | 247.6  | 247.2 | 246.9  | 246.4 | 246.0  | 245.8 |
| 14.5° | 246.6 | 246.7 | 246.9 | 247.0 | 247.0 | 247.1  | 246.6 | 246.3  | 245.7 | 245.3  | 245.1 |
| 15°   | 246.0 | 246.1 | 246.2 | 246.2 | 246.6 | 246.3  | 246.0 | 245.4  | 245.1 | 244.6  | 244.5 |
| 15.5° | 245.3 | 245.4 | 245.7 | 245.6 | 246.3 | 245.8  | 245.3 | 244.9  | 244.3 | 244.0  | 243.9 |
| 16°   | 244.6 | 244.8 | 244.8 | 245.0 | 245.2 | 245.1  | 244.5 | 244.1  | 243.6 | 243.3  | 243.1 |
| 16.5° | 244.0 | 243.9 | 244.2 | 244.2 | 244.6 | 244.4  | 243.9 | 243.4  | 243.0 | 242.5  | 242.4 |
| 17°   | 243.2 | 243.3 | 243.5 | 243.6 | 244.0 | 243.7  | 243.2 | 242.8  | 242.2 | 241.8  | 241.5 |
| 17.5° | 242.4 | 242.5 | 242.8 | 242.9 | 243.2 | 243.0  | 242.4 | 242.0  | 241.4 | 241.1  | 240.8 |
| 18°   | 241.8 | 241.8 | 242.0 | 242.2 | 242.4 | 242.2  | 241.6 | 241.2  | 240.6 | 240.3  | 239.9 |
| 18.5° | 240.9 | 241.0 | 241.3 | 241.5 | 241.7 | 241.5  | 241.0 | 240.4  | 239.9 | 239.4  | 239.2 |
| 19°   | 240.1 | 240.3 | 240.4 | 240.6 | 240.9 | 240.6  | 239.9 | 239.7  | 239.2 | 238.7  | 238.2 |
| 19.5° | 239.4 | 239.6 | 239.8 | 239.7 | 240.1 | 239.8  | 239.3 | 238.8  | 238.4 | 237.8  | 237.3 |
| 20°   | 238.4 | 238.7 | 238.9 | 238.9 | 239.3 | 238.9  | 238.3 | 237.9  | 237.4 | 236.9  | 236.5 |
| 20.5° | 237.5 | 237.8 | 238.0 | 238.1 | 238.5 | 238.2  | 237.7 | 237.2  | 236.6 | 236.0  | 235.7 |
| 21°   | 236.5 | 236.9 | 237.1 | 237.3 | 237.7 | 237.3  | 236.6 | 236.1  | 235.7 | 235.1  | 234.6 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 233.9 | 234.2 | 234.4 | 234.5 | 235.0 | 234.6  | 233.9 | 233.4  | 232.8 | 232.2  | 231.8 |
| 23°   | 232.9 | 233.3 | 233.3 | 233.6 | 234.0 | 233.8  | 233.0 | 232.3  | 232.0 | 231.2  | 230.7 |
| 23.5° | 231.8 | 232.3 | 232.6 | 232.7 | 232.9 | 232.7  | 232.1 | 231.5  | 231.1 | 230.1  | 229.8 |
| 24°   | 230.9 | 231.3 | 231.5 | 231.7 | 232.0 | 231.8  | 231.0 | 230.3  | 230.1 | 229.1  | 228.8 |
| 24.5° | 229.9 | 230.2 | 230.5 | 230.7 | 231.0 | 230.8  | 229.9 | 229.4  | 228.9 | 228.0  | 227.7 |
| 25°   | 228.9 | 229.2 | 229.5 | 229.6 | 230.0 | 229.7  | 228.8 | 228.8  | 228.0 | 226.9  | 226.5 |
| 25.5° | 227.8 | 228.1 | 228.5 | 228.7 | 228.9 | 228.7  | 227.9 | 227.3  | 227.0 | 225.9  | 225.5 |
| 26°   | 226.7 | 227.3 | 227.5 | 227.6 | 228.0 | 227.6  | 226.9 | 226.4  | 225.8 | 224.8  | 224.3 |
| 26.5° | 225.5 | 226.0 | 226.3 | 226.6 | 226.9 | 226.6  | 225.8 | 225.3  | 224.7 | 223.7  | 223.3 |
| 27°   | 224.5 | 225.0 | 225.2 | 225.4 | 225.8 | 225.3  | 224.6 | 224.0  | 223.6 | 222.7  | 222.2 |
| 27.5° | 223.4 | 223.8 | 224.2 | 224.4 | 224.6 | 224.3  | 223.6 | 223.1  | 222.6 | 221.5  | 220.9 |
| 28°   | 222.4 | 222.9 | 223.0 | 223.3 | 223.6 | 223.3  | 222.5 | 221.9  | 221.5 | 220.3  | 219.7 |
| 28.5° | 221.1 | 221.8 | 222.1 | 222.2 | 222.5 | 222.3  | 221.4 | 220.9  | 220.3 | 219.1  | 218.6 |
| 29°   | 220.0 | 220.6 | 220.8 | 221.1 | 221.4 | 221.0  | 220.1 | 219.6  | 219.1 | 218.0  | 217.5 |
| 29.5° | 218.9 | 219.5 | 219.6 | 219.9 | 220.1 | 219.9  | 219.0 | 218.5  | 217.9 | 216.7  | 216.0 |
| 30°   | 217.8 | 218.2 | 218.5 | 218.6 | 219.1 | 218.7  | 217.8 | 217.1  | 216.7 | 215.4  | 214.7 |
| 30.5° | 216.6 | 217.0 | 217.3 | 217.4 | 217.8 | 217.3  | 216.5 | 215.9  | 215.4 | 214.2  | 213.5 |
| 31°   | 215.3 | 215.7 | 216.0 | 216.1 | 216.6 | 216.2  | 215.2 | 214.6  | 214.2 | 213.0  | 212.3 |
| 31.5° | 214.0 | 214.7 | 214.8 | 214.8 | 215.2 | 215.0  | 214.0 | 213.4  | 212.8 | 211.7  | 211.0 |
| 32°   | 212.7 | 213.4 | 213.5 | 213.6 | 213.9 | 213.7  | 212.7 | 212.2  | 211.5 | 210.3  | 209.6 |
| 32.5° | 211.4 | 211.8 | 212.2 | 212.4 | 212.7 | 212.3  | 211.4 | 210.9  | 210.4 | 209.0  | 208.3 |
| 33°   | 210.2 | 210.8 | 210.8 | 211.0 | 211.4 | 211.0  | 210.0 | 209.3  | 209.0 | 207.6  | 206.8 |
| 33.5° | 208.8 | 209.3 | 209.6 | 209.8 | 210.1 | 209.7  | 208.6 | 208.0  | 207.6 | 206.4  | 205.6 |
| 34°   | 207.5 | 208.1 | 208.2 | 208.5 | 208.9 | 208.4  | 207.3 | 206.7  | 206.2 | 204.9  | 204.0 |
| 34.5° | 206.1 | 206.6 | 206.9 | 207.0 | 207.5 | 206.9  | 206.0 | 205.5  | 204.8 | 203.5  | 202.7 |
| 35°   | 204.8 | 205.3 | 205.5 | 205.7 | 206.1 | 205.5  | 204.6 | 204.0  | 203.4 | 202.1  | 201.3 |
| 35.5° | 203.4 | 204.1 | 204.1 | 204.3 | 204.8 | 204.1  | 203.2 | 202.7  | 202.0 | 200.7  | 199.9 |
| 36°   | 201.9 | 202.5 | 202.6 | 203.0 | 203.4 | 202.7  | 201.8 | 201.1  | 200.7 | 199.2  | 198.4 |
| 36.5° | 200.4 | 200.9 | 201.3 | 201.5 | 202.0 | 201.3  | 200.3 | 199.7  | 199.1 | 197.8  | 196.9 |
| 37°   | 199.1 | 199.4 | 199.8 | 200.1 | 200.6 | 199.9  | 198.9 | 198.2  | 197.6 | 196.3  | 195.3 |
| 37.5° | 197.6 | 197.9 | 198.4 | 198.6 | 199.2 | 198.4  | 197.4 | 196.8  | 196.2 | 194.8  | 193.8 |
| 38°   | 196.1 | 196.6 | 196.8 | 197.2 | 197.7 | 197.0  | 196.0 | 195.2  | 194.7 | 193.3  | 192.3 |
| 38.5° | 194.6 | 195.1 | 195.4 | 195.7 | 196.2 | 195.4  | 194.5 | 193.6  | 193.2 | 191.7  | 190.8 |
| 39°   | 193.1 | 193.7 | 193.9 | 194.2 | 194.7 | 194.0  | 193.0 | 192.2  | 191.7 | 190.2  | 189.3 |
| 39.5° | 191.5 | 192.3 | 192.4 | 192.7 | 193.3 | 192.4  | 191.5 | 190.7  | 190.2 | 188.8  | 187.8 |
| 40°   | 190.0 | 190.6 | 190.8 | 191.1 | 191.7 | 190.9  | 190.0 | 189.2  | 188.8 | 187.1  | 186.1 |
| 40.5° | 188.5 | 189.1 | 189.3 | 189.6 | 190.1 | 189.3  | 188.5 | 187.6  | 187.1 | 185.6  | 184.6 |
| 41°   | 187.1 | 187.6 | 187.7 | 188.0 | 188.8 | 187.9  | 186.9 | 185.9  | 185.5 | 183.9  | 182.9 |
| 41.5° | 185.4 | 186.0 | 186.2 | 186.5 | 187.2 | 186.2  | 185.2 | 184.5  | 184.0 | 182.4  | 181.4 |
| 42°   | 183.8 | 184.5 | 184.5 | 184.9 | 185.6 | 184.7  | 183.6 | 182.8  | 182.2 | 180.7  | 179.6 |
| 42.5° | 182.2 | 182.7 | 182.9 | 183.2 | 184.0 | 183.0  | 182.0 | 181.2  | 180.7 | 179.1  | 178.1 |
| 43°   | 180.6 | 181.1 | 181.2 | 181.6 | 182.4 | 181.4  | 180.3 | 179.5  | 179.0 | 177.4  | 176.3 |
| 43.5° | 178.9 | 179.5 | 179.6 | 180.0 | 180.6 | 179.7  | 178.8 | 178.0  | 177.4 | 175.7  | 174.7 |



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CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 173.9 | 174.5 | 174.7 | 174.9 | 175.7 | 174.8  | 173.7 | 172.8  | 172.3 | 170.8  | 169.4 |
| 45.5° | 172.2 | 172.9 | 173.0 | 173.3 | 174.1 | 172.9  | 172.1 | 171.2  | 170.6 | 168.9  | 167.7 |
| 46°   | 170.4 | 171.0 | 171.4 | 171.5 | 172.4 | 171.2  | 170.2 | 169.4  | 168.8 | 167.1  | 166.0 |
| 46.5° | 168.7 | 169.3 | 169.6 | 169.8 | 170.7 | 169.5  | 168.6 | 167.7  | 167.2 | 165.5  | 164.2 |
| 47°   | 167.0 | 167.6 | 167.9 | 168.0 | 169.0 | 167.8  | 166.8 | 165.9  | 165.3 | 163.6  | 162.5 |
| 47.5° | 165.2 | 165.8 | 166.1 | 166.3 | 167.3 | 166.2  | 165.0 | 164.1  | 163.6 | 161.9  | 160.7 |
| 48°   | 163.4 | 164.3 | 164.3 | 164.6 | 165.5 | 164.3  | 163.2 | 162.4  | 161.6 | 160.1  | 158.8 |
| 48.5° | 161.7 | 162.2 | 162.6 | 162.8 | 163.7 | 162.6  | 161.5 | 160.6  | 159.9 | 158.2  | 157.0 |
| 49°   | 159.9 | 160.5 | 160.8 | 160.9 | 162.0 | 160.7  | 159.7 | 158.8  | 158.2 | 156.5  | 155.4 |
| 49.5° | 158.1 | 158.6 | 159.0 | 159.1 | 160.2 | 159.0  | 157.9 | 157.1  | 156.4 | 154.8  | 153.5 |
| 50°   | 156.3 | 156.8 | 157.1 | 157.3 | 158.3 | 157.2  | 156.1 | 155.4  | 154.6 | 152.8  | 151.6 |
| 50.5° | 154.5 | 155.1 | 155.4 | 155.6 | 156.6 | 155.5  | 154.4 | 153.6  | 152.8 | 151.0  | 149.8 |
| 51°   | 152.7 | 153.3 | 153.6 | 153.8 | 154.8 | 153.6  | 152.5 | 151.7  | 150.9 | 149.1  | 147.9 |
| 51.5° | 150.9 | 151.4 | 151.8 | 152.0 | 153.1 | 151.8  | 150.7 | 149.9  | 149.1 | 147.3  | 146.0 |
| 52°   | 149.0 | 149.5 | 149.9 | 150.0 | 151.2 | 149.9  | 148.8 | 148.0  | 147.1 | 145.5  | 144.1 |
| 52.5° | 147.0 | 147.7 | 148.0 | 148.2 | 149.4 | 148.0  | 146.9 | 146.2  | 145.3 | 143.6  | 142.3 |
| 53°   | 145.2 | 145.8 | 146.2 | 146.3 | 147.4 | 146.1  | 145.0 | 144.2  | 143.3 | 141.7  | 140.3 |
| 53.5° | 143.3 | 144.4 | 144.1 | 144.4 | 145.6 | 144.3  | 143.1 | 142.3  | 141.4 | 139.9  | 138.3 |
| 54°   | 141.4 | 142.0 | 142.3 | 142.5 | 143.6 | 142.3  | 141.1 | 140.4  | 139.5 | 137.8  | 136.3 |
| 54.5° | 139.6 | 140.1 | 140.3 | 140.5 | 141.7 | 140.4  | 139.4 | 138.5  | 137.5 | 135.9  | 134.5 |
| 55°   | 137.6 | 138.1 | 138.5 | 138.6 | 139.8 | 138.4  | 137.3 | 136.5  | 135.6 | 133.9  | 132.6 |
| 55.5° | 135.5 | 136.1 | 136.5 | 136.8 | 137.9 | 136.5  | 135.5 | 134.6  | 133.7 | 131.9  | 130.4 |
| 56°   | 133.6 | 134.2 | 134.6 | 134.8 | 135.9 | 134.7  | 133.5 | 132.6  | 131.6 | 129.9  | 128.5 |
| 56.5° | 131.6 | 132.1 | 132.6 | 132.8 | 133.9 | 132.6  | 131.4 | 130.7  | 129.6 | 127.9  | 126.6 |
| 57°   | 129.6 | 130.3 | 130.5 | 130.8 | 131.9 | 130.6  | 129.5 | 128.7  | 127.5 | 125.8  | 124.6 |
| 57.5° | 127.5 | 128.2 | 128.5 | 128.8 | 130.0 | 128.6  | 127.4 | 126.7  | 125.7 | 123.9  | 122.5 |
| 58°   | 125.6 | 126.2 | 126.6 | 126.9 | 128.0 | 126.7  | 125.6 | 124.7  | 123.6 | 121.9  | 120.6 |
| 58.5° | 123.5 | 124.1 | 124.7 | 124.9 | 126.1 | 124.7  | 123.6 | 122.7  | 121.7 | 120.0  | 118.4 |
| 59°   | 121.6 | 122.3 | 122.6 | 122.8 | 124.0 | 122.7  | 121.6 | 120.8  | 119.7 | 118.0  | 116.5 |
| 59.5° | 119.5 | 120.2 | 120.6 | 120.9 | 122.1 | 120.7  | 119.6 | 118.7  | 117.7 | 115.9  | 114.4 |
| 60°   | 117.4 | 118.3 | 118.6 | 118.8 | 120.0 | 118.7  | 117.6 | 116.6  | 115.6 | 113.9  | 112.4 |
| 60.5° | 115.4 | 116.1 | 116.5 | 116.8 | 117.9 | 116.7  | 115.6 | 114.6  | 113.5 | 111.8  | 110.3 |
| 61°   | 113.3 | 114.2 | 114.4 | 114.7 | 115.9 | 114.6  | 113.5 | 112.5  | 111.6 | 109.7  | 108.2 |
| 61.5° | 111.2 | 112.1 | 112.4 | 112.7 | 113.8 | 112.6  | 111.5 | 110.4  | 109.5 | 107.7  | 106.1 |
| 62°   | 109.1 | 110.1 | 110.4 | 110.6 | 111.7 | 110.5  | 109.5 | 108.4  | 107.4 | 105.6  | 104.1 |
| 62.5° | 107.0 | 107.9 | 108.3 | 108.5 | 109.7 | 108.4  | 107.4 | 106.2  | 105.4 | 103.5  | 102.0 |
| 63°   | 104.9 | 105.9 | 106.3 | 106.4 | 107.6 | 106.4  | 105.3 | 104.1  | 103.2 | 101.4  | 99.9  |
| 63.5° | 102.7 | 103.8 | 104.2 | 104.4 | 105.5 | 104.3  | 103.1 | 101.9  | 101.3 | 99.3   | 97.7  |
| 64°   | 100.7 | 101.7 | 102.1 | 102.2 | 103.4 | 102.1  | 101.1 | 99.8   | 99.1  | 97.3   | 95.7  |
| 64.5° | 98.6  | 99.6  | 100.0 | 100.2 | 101.4 | 100.0  | 99.1  | 97.8   | 97.0  | 95.2   | 93.6  |
| 65°   | 96.5  | 97.5  | 97.9  | 98.0  | 99.2  | 98.0   | 96.9  | 95.8   | 95.0  | 93.1   | 91.5  |
| 65.5° | 94.3  | 95.3  | 95.9  | 95.9  | 97.1  | 95.9   | 94.7  | 93.6   | 92.9  | 91.0   | 89.4  |
| 66°   | 92.2  | 93.2  | 93.7  | 93.7  | 95.0  | 93.8   | 92.7  | 91.5   | 90.7  | 89.0   | 87.4  |





TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 67.5° | 86.1 | 86.9  | 87.4 | 87.6  | 88.8 | 87.6   | 86.5 | 85.5   | 84.6 | 82.8   | 81.1 |
| 68°   | 84.1 | 85.0  | 85.3 | 85.5  | 86.8 | 85.5   | 84.4 | 83.4   | 82.5 | 80.6   | 79.1 |
| 68.5° | 81.9 | 82.9  | 83.2 | 83.4  | 84.6 | 83.4   | 82.3 | 81.4   | 80.3 | 78.5   | 77.0 |
| 69°   | 79.8 | 80.7  | 81.1 | 81.3  | 82.5 | 81.2   | 80.3 | 79.3   | 78.3 | 76.4   | 74.8 |
| 69.5° | 77.7 | 78.5  | 78.9 | 79.2  | 80.4 | 79.1   | 78.1 | 77.2   | 76.2 | 74.3   | 72.9 |
| 70°   | 75.7 | 76.6  | 76.8 | 77.1  | 78.3 | 76.9   | 76.0 | 75.1   | 74.0 | 72.2   | 70.6 |
| 70.5° | 73.5 | 74.4  | 74.6 | 75.0  | 76.1 | 74.9   | 73.8 | 73.2   | 72.0 | 70.2   | 68.6 |
| 71°   | 71.5 | 72.4  | 72.6 | 72.9  | 74.1 | 72.8   | 71.8 | 71.1   | 69.9 | 67.9   | 66.4 |
| 71.5° | 69.3 | 70.2  | 70.4 | 70.8  | 72.0 | 70.6   | 69.7 | 69.0   | 67.8 | 65.9   | 64.4 |
| 72°   | 67.3 | 68.1  | 68.4 | 68.6  | 69.7 | 68.6   | 67.7 | 66.8   | 65.7 | 63.8   | 62.2 |
| 72.5° | 65.1 | 66.0  | 66.3 | 66.6  | 67.8 | 66.4   | 65.5 | 64.8   | 63.6 | 61.8   | 60.2 |
| 73°   | 63.1 | 63.9  | 64.2 | 64.4  | 65.6 | 64.3   | 63.4 | 62.7   | 61.4 | 59.6   | 58.1 |
| 73.5° | 60.9 | 61.8  | 62.1 | 62.3  | 63.4 | 62.3   | 61.4 | 60.5   | 59.4 | 57.5   | 56.0 |
| 74°   | 58.9 | 59.8  | 60.1 | 60.2  | 61.3 | 60.2   | 59.3 | 58.5   | 57.4 | 55.5   | 54.1 |
| 74.5° | 56.8 | 57.5  | 58.0 | 58.1  | 59.2 | 58.1   | 57.2 | 56.4   | 55.4 | 53.7   | 52.0 |
| 75°   | 54.8 | 55.7  | 56.0 | 56.1  | 57.1 | 56.1   | 55.3 | 54.4   | 53.4 | 51.5   | 50.0 |
| 75.5° | 52.7 | 53.6  | 54.0 | 54.1  | 55.1 | 54.1   | 53.1 | 52.3   | 51.3 | 49.5   | 47.9 |
| 76°   | 50.8 | 51.5  | 51.9 | 52.0  | 52.8 | 52.1   | 51.2 | 50.3   | 49.3 | 47.5   | 46.0 |
| 76.5° | 48.6 | 49.5  | 49.9 | 49.9  | 51.1 | 50.0   | 49.0 | 48.2   | 47.3 | 45.4   | 43.9 |
| 77°   | 46.6 | 47.5  | 47.8 | 47.9  | 48.9 | 48.0   | 47.1 | 46.2   | 45.2 | 43.5   | 41.9 |
| 77.5° | 44.6 | 45.4  | 45.8 | 45.9  | 46.9 | 46.0   | 45.1 | 44.2   | 43.2 | 41.5   | 40.0 |
| 78°   | 42.6 | 43.6  | 43.8 | 43.8  | 44.7 | 43.9   | 43.1 | 42.2   | 41.3 | 39.5   | 38.0 |
| 78.5° | 40.6 | 41.5  | 41.8 | 41.9  | 42.9 | 42.0   | 41.1 | 40.3   | 39.3 | 37.6   | 36.1 |
| 79°   | 38.8 | 39.5  | 39.8 | 39.8  | 40.8 | 39.9   | 39.1 | 38.4   | 37.4 | 35.6   | 34.1 |
| 79.5° | 36.8 | 37.7  | 37.9 | 37.8  | 38.8 | 38.1   | 37.2 | 36.4   | 35.5 | 33.8   | 32.1 |
| 80°   | 34.8 | 35.7  | 36.0 | 36.0  | 36.9 | 36.1   | 35.3 | 34.4   | 33.5 | 31.8   | 30.5 |
| 80.5° | 32.9 | 33.6  | 34.1 | 34.0  | 34.9 | 34.1   | 33.4 | 32.6   | 31.6 | 29.9   | 28.6 |
| 81°   | 31.0 | 31.8  | 32.2 | 32.1  | 33.0 | 32.2   | 31.6 | 30.7   | 29.8 | 28.1   | 26.6 |
| 81.5° | 29.2 | 30.0  | 30.3 | 30.2  | 31.1 | 30.4   | 29.6 | 28.8   | 27.9 | 26.4   | 24.9 |
| 82°   | 27.3 | 28.1  | 28.5 | 28.5  | 29.2 | 28.4   | 27.8 | 27.0   | 26.2 | 24.5   | 23.1 |
| 82.5° | 25.5 | 26.4  | 26.7 | 26.6  | 27.3 | 26.7   | 26.0 | 25.3   | 24.4 | 22.7   | 21.6 |
| 83°   | 23.7 | 24.5  | 24.8 | 24.7  | 25.5 | 24.8   | 24.2 | 23.5   | 22.8 | 21.3   | 19.8 |
| 83.5° | 22.0 | 22.8  | 23.1 | 23.0  | 23.8 | 23.1   | 22.5 | 21.9   | 21.1 | 19.5   | 18.0 |
| 84°   | 20.4 | 21.2  | 21.4 | 21.4  | 22.0 | 21.5   | 20.9 | 20.2   | 19.3 | 17.8   | 16.5 |
| 84.5° | 18.6 | 19.4  | 19.7 | 19.6  | 20.4 | 19.8   | 19.3 | 18.5   | 17.6 | 16.2   | 14.6 |
| 85°   | 17.0 | 17.6  | 18.1 | 17.9  | 18.6 | 18.0   | 17.5 | 16.8   | 16.0 | 14.4   | 13.1 |
| 85.5° | 15.2 | 15.9  | 16.3 | 16.2  | 16.9 | 16.4   | 15.9 | 15.1   | 14.4 | 12.9   | 11.5 |
| 86°   | 13.6 | 14.3  | 14.7 | 14.5  | 15.1 | 14.8   | 14.3 | 13.6   | 12.8 | 11.3   | 9.9  |
| 86.5° | 12.0 | 12.8  | 13.0 | 12.9  | 13.5 | 13.1   | 12.6 | 11.9   | 11.1 | 9.7    | 8.3  |
| 87°   | 10.4 | 11.5  | 11.5 | 11.3  | 11.9 | 11.5   | 11.1 | 10.4   | 9.5  | 8.2    | 6.9  |
| 87.5° | 8.9  | 9.6   | 9.9  | 9.8   | 10.3 | 9.9    | 9.5  | 8.8    | 8.1  | 6.6    | 5.4  |
| 88°   | 7.3  | 8.0   | 8.2  | 8.3   | 8.8  | 8.4    | 8.0  | 7.3    | 6.6  | 5.2    | 4.1  |
| 88.5° | 5.9  | 6.6   | 6.7  | 6.8   | 7.2  | 7.0    | 6.5  | 6.0    | 5.2  | 4.0    | 2.8  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90°    | 0.9 | 2.0   | 2.4 | 2.4   | 2.9 | 2.7    | 2.3  | 1.6    | 0.5  | 0.4    | 0.2  |
| 90.5°  | 0.6 | 0.9   | 1.1 | 1.3   | 1.9 | 1.4    | 0.8  | 0.3    | 0.4  | 0.4    | 0.1  |
| 91°    | 0.6 | 0.5   | 0.6 | 0.7   | 0.5 | 0.4    | 0.5  | 0.3    | 0.4  | 0.3    | 0.1  |
| 91.5°  | 0.6 | 0.5   | 0.6 | 0.6   | 0.2 | 0.4    | 0.5  | 0.4    | 0.3  | 0.3    | 0.1  |
| 92°    | 0.5 | 0.5   | 0.6 | 0.6   | 0.1 | 0.4    | 0.4  | 0.3    | 0.3  | 0.3    | 0.1  |
| 92.5°  | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.4    | 0.4  | 0.3    | 0.3  | 0.3    | 0.1  |
| 93°    | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.4    | 0.4  | 0.3    | 0.3  | 0.3    | 0.1  |
| 93.5°  | 0.5 | 0.5   | 0.6 | 0.5   | 0.1 | 0.4    | 0.4  | 0.3    | 0.3  | 0.3    | 0.1  |
| 94°    | 0.5 | 0.5   | 0.6 | 0.5   | 0.2 | 0.4    | 0.4  | 0.3    | 0.3  | 0.3    | 0.1  |
| 94.5°  | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 | 0.4    | 0.4  | 0.4    | 0.3  | 0.3    | 0.1  |
| 95°    | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.3  | 0.3    | 0.1  |
| 95.5°  | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.3  | 0.3    | 0.1  |
| 96°    | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.4    | 0.4  | 0.4    | 0.4  | 0.3    | 0.1  |
| 96.5°  | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.4  | 0.3    | 0.2  |
| 97°    | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.4  | 0.3    | 0.1  |
| 97.5°  | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.5  | 0.3    | 0.1  |
| 98°    | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.4  | 0.3    | 0.3  |
| 98.5°  | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.4  | 0.3    | 0.2  |
| 99°    | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.4  | 0.3    | 0.3  |
| 99.5°  | 0.5 | 0.5   | 0.5 | 0.5   | 0.0 | 0.4    | 0.4  | 0.4    | 0.4  | 0.3    | 0.3  |
| 100°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 | 0.5    | 0.4  | 0.4    | 0.4  | 0.3    | 0.4  |
| 100.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.4  | 0.4    | 0.4  | 0.3    | 0.2  |
| 101°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.4  | 0.4    | 0.4  | 0.3    | 0.2  |
| 101.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.4  | 0.4    | 0.4  | 0.3    | 0.1  |
| 102°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.4  | 0.4    | 0.4  | 0.3    | 0.2  |
| 102.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.4    | 0.4  | 0.3    | 0.3  |
| 103°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.4    | 0.4  | 0.4    | 0.2  |
| 103.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.4    | 0.4  | 0.3    | 0.2  |
| 104°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.4  | 0.3    | 0.2  |
| 104.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.4  | 0.5    | 0.2  |
| 105°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.4  | 0.5    | 0.3  |
| 105.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.6  | 0.5    | 0.5  | 0.4    | 0.3  |
| 106°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.3  |
| 106.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.3  |
| 107°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.3  |
| 107.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.3  |
| 108°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.3  |
| 108.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.1 | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.7  |
| 109°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.3 | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.4  |
| 109.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.3 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.4  |
| 110°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 110.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.4  |
| 111°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.4  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 112.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.3 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.3  |
| 113°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.3 | 0.6    | 0.5  | 0.5    | 0.5  | 0.5    | 0.3  |
| 113.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.3 | 0.6    | 0.7  | 0.5    | 0.5  | 0.5    | 0.3  |
| 114°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.6    | 0.7  | 0.6    | 0.5  | 0.5    | 0.3  |
| 114.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.7    | 0.6  | 0.6    | 0.5  | 0.5    | 0.3  |
| 115°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.6  | 0.6    | 0.5  | 0.5    | 0.3  |
| 115.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.6  | 0.6    | 0.5  | 0.5    | 0.4  |
| 116°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.6  | 0.6    | 0.6  | 0.5    | 0.4  |
| 116.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.6  | 0.6    | 0.6  | 0.5    | 0.4  |
| 117°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.6  | 0.6    | 0.6  | 0.5    | 0.3  |
| 117.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.6  | 0.6    | 0.7  | 0.5    | 0.3  |
| 118°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.6  | 0.6    | 0.6  | 0.5    | 0.3  |
| 118.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.6  | 0.6    | 0.6  | 0.5    | 0.3  |
| 119°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.6  | 0.6    | 0.6  | 0.5    | 0.3  |
| 119.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.7  | 0.6    | 0.6  | 0.5    | 0.3  |
| 120°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.7  | 0.6    | 0.6  | 0.5    | 0.4  |
| 120.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.7  | 0.6    | 0.6  | 0.4    | 0.4  |
| 121°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.7  | 0.6    | 0.6  | 0.4    | 0.5  |
| 121.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.6    | 0.7  | 0.6    | 0.6  | 0.4    | 0.5  |
| 122°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.6    | 0.7  | 0.6    | 0.6  | 0.4    | 0.5  |
| 122.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.6    | 0.6  | 0.5    | 0.5  |
| 123°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.6    | 0.6  | 0.5    | 0.5  |
| 123.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.7    | 0.7  | 0.6    | 0.6  | 0.6    | 0.5  |
| 124°   | 0.6 | 0.5   | 0.5 | 0.5   | 0.5 | 0.7    | 0.7  | 0.7    | 0.6  | 0.5    | 0.5  |
| 124.5° | 0.6 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.7    | 0.6  | 0.5    | 0.5  |
| 125°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.7    | 0.6  | 0.5    | 0.6  |
| 125.5° | 0.7 | 0.5   | 0.5 | 0.5   | 0.5 | 0.7    | 0.7  | 0.7    | 0.6  | 0.5    | 0.6  |
| 126°   | 0.6 | 0.5   | 0.5 | 0.5   | 0.5 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 126.5° | 0.6 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 127°   | 0.7 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 127.5° | 0.7 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 128°   | 0.7 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 128.5° | 0.7 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 129°   | 0.7 | 0.5   | 0.5 | 0.5   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 129.5° | 0.7 | 0.5   | 0.5 | 0.6   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 130°   | 0.7 | 0.5   | 0.6 | 0.6   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 130.5° | 0.7 | 0.5   | 0.6 | 0.6   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 131°   | 0.7 | 0.5   | 0.5 | 0.6   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 131.5° | 0.7 | 0.5   | 0.5 | 0.6   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.5  |
| 132°   | 0.7 | 0.6   | 0.5 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.6  |
| 132.5° | 0.7 | 0.7   | 0.5 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.5    | 0.6  |
| 133°   | 0.7 | 0.7   | 0.5 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 133.5° | 0.7 | 0.6   | 0.5 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135°   | 0.8 | 0.8   | 0.6 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.6  |
| 135.5° | 0.8 | 0.8   | 0.5 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.8  | 0.6    | 0.6  |
| 136°   | 0.8 | 0.8   | 0.5 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 136.5° | 0.8 | 0.8   | 0.6 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 137°   | 0.8 | 0.8   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 137.5° | 0.8 | 0.8   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 138°   | 0.8 | 0.8   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 138.5° | 0.8 | 0.8   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 139°   | 0.8 | 0.8   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 139.5° | 0.8 | 0.8   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.6    | 0.6  |
| 140°   | 0.8 | 0.9   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.6  |
| 140.5° | 0.8 | 0.9   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.6  |
| 141°   | 0.8 | 1.0   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.6  |
| 141.5° | 0.8 | 1.0   | 0.7 | 0.7   | 0.4 | 0.7    | 0.7  | 0.7    | 0.7  | 0.7    | 0.6  |
| 142°   | 0.8 | 1.0   | 0.8 | 0.8   | 0.4 | 0.8    | 0.7  | 0.7    | 0.8  | 0.7    | 0.6  |
| 142.5° | 0.8 | 1.0   | 0.8 | 0.8   | 0.4 | 0.7    | 0.7  | 0.7    | 0.8  | 0.7    | 0.6  |
| 143°   | 0.8 | 1.0   | 0.8 | 0.7   | 0.5 | 0.7    | 0.7  | 0.7    | 0.8  | 0.7    | 0.6  |
| 143.5° | 0.8 | 1.1   | 0.8 | 0.8   | 0.5 | 0.7    | 0.7  | 0.8    | 0.8  | 0.7    | 0.6  |
| 144°   | 0.8 | 1.0   | 0.8 | 0.8   | 0.5 | 0.8    | 0.7  | 0.8    | 0.8  | 0.7    | 0.7  |
| 144.5° | 0.8 | 1.0   | 0.8 | 0.8   | 0.4 | 0.8    | 0.7  | 0.8    | 0.8  | 0.7    | 0.7  |
| 145°   | 0.8 | 1.0   | 0.8 | 0.9   | 0.4 | 0.8    | 0.8  | 0.8    | 0.8  | 0.7    | 0.7  |
| 145.5° | 0.8 | 1.0   | 0.8 | 0.9   | 0.4 | 0.8    | 0.8  | 0.8    | 0.8  | 0.7    | 0.7  |
| 146°   | 0.8 | 1.1   | 0.8 | 0.8   | 0.4 | 0.8    | 0.8  | 0.8    | 0.8  | 0.7    | 0.8  |
| 146.5° | 1.0 | 1.1   | 0.8 | 0.8   | 0.7 | 0.8    | 0.8  | 0.8    | 0.8  | 0.7    | 0.8  |
| 147°   | 1.0 | 1.0   | 0.8 | 0.8   | 0.6 | 0.8    | 0.8  | 0.8    | 0.8  | 0.7    | 0.8  |
| 147.5° | 0.9 | 1.0   | 0.8 | 1.0   | 0.6 | 0.8    | 0.8  | 0.8    | 0.8  | 0.7    | 0.8  |
| 148°   | 0.9 | 1.0   | 0.8 | 1.0   | 0.6 | 0.9    | 0.8  | 0.8    | 0.8  | 0.7    | 0.8  |
| 148.5° | 0.9 | 1.0   | 0.8 | 0.9   | 0.7 | 0.8    | 0.8  | 0.8    | 0.8  | 0.7    | 0.8  |
| 149°   | 0.9 | 1.0   | 0.9 | 0.9   | 0.7 | 0.8    | 0.8  | 0.8    | 0.9  | 0.7    | 0.8  |
| 149.5° | 1.0 | 1.0   | 0.9 | 0.9   | 0.7 | 0.8    | 0.8  | 0.8    | 0.8  | 0.7    | 0.8  |
| 150°   | 1.0 | 1.0   | 1.0 | 0.9   | 0.7 | 0.8    | 0.8  | 0.8    | 0.9  | 0.8    | 0.8  |
| 150.5° | 1.0 | 1.0   | 1.0 | 1.0   | 0.7 | 0.8    | 0.8  | 0.8    | 0.9  | 0.8    | 0.8  |
| 151°   | 1.0 | 1.0   | 0.9 | 0.9   | 0.7 | 0.8    | 0.8  | 0.8    | 0.9  | 0.8    | 0.8  |
| 151.5° | 1.0 | 1.0   | 0.9 | 1.0   | 0.7 | 0.8    | 0.8  | 0.8    | 0.9  | 0.8    | 0.8  |
| 152°   | 1.1 | 1.0   | 0.9 | 1.0   | 0.7 | 0.8    | 0.8  | 0.8    | 0.9  | 0.8    | 0.8  |
| 152.5° | 1.1 | 1.0   | 0.9 | 1.0   | 0.7 | 0.8    | 0.8  | 0.8    | 0.9  | 0.8    | 0.8  |
| 153°   | 1.0 | 1.0   | 1.0 | 1.0   | 0.7 | 0.8    | 0.8  | 0.8    | 0.9  | 0.9    | 0.8  |
| 153.5° | 1.0 | 1.0   | 1.0 | 1.0   | 0.7 | 0.8    | 0.8  | 0.9    | 0.9  | 0.9    | 0.9  |
| 154°   | 1.0 | 1.0   | 1.0 | 1.0   | 0.8 | 0.8    | 0.8  | 0.9    | 0.9  | 0.8    | 0.8  |
| 154.5° | 1.0 | 1.0   | 1.0 | 1.0   | 0.8 | 0.9    | 0.8  | 0.9    | 1.0  | 0.8    | 1.0  |
| 155°   | 1.0 | 1.0   | 1.0 | 1.0   | 0.8 | 0.9    | 0.9  | 1.0    | 1.0  | 0.8    | 0.8  |
| 155.5° | 1.1 | 1.0   | 1.0 | 1.0   | 0.7 | 0.9    | 0.9  | 0.9    | 1.0  | 0.8    | 0.8  |
| 156°   | 1.1 | 1.1   | 1.0 | 1.0   | 0.8 | 0.9    | 1.0  | 0.9    | 1.0  | 0.8    | 0.8  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 157.5° | 1.1 | 1.0   | 1.0 | 1.2   | 0.7 | 1.0    | 1.0  | 1.0    | 1.0  | 0.9    | 0.8  |
| 158°   | 1.1 | 1.0   | 1.0 | 1.1   | 0.7 | 1.0    | 1.0  | 1.1    | 1.0  | 0.8    | 0.9  |
| 158.5° | 1.2 | 1.0   | 1.0 | 1.1   | 0.8 | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 0.8  |
| 159°   | 1.2 | 1.0   | 1.0 | 1.1   | 0.7 | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 0.8  |
| 159.5° | 1.2 | 1.0   | 1.0 | 1.1   | 0.7 | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 0.8  |
| 160°   | 1.2 | 1.0   | 1.0 | 1.1   | 0.7 | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 160.5° | 1.2 | 1.0   | 1.0 | 1.1   | 0.7 | 1.0    | 1.1  | 1.0    | 1.0  | 1.0    | 1.0  |
| 161°   | 1.2 | 1.0   | 1.0 | 1.1   | 0.7 | 1.0    | 1.1  | 1.1    | 1.0  | 1.0    | 0.8  |
| 161.5° | 1.2 | 1.0   | 1.1 | 1.1   | 0.7 | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 0.8  |
| 162°   | 1.2 | 1.0   | 1.1 | 1.1   | 0.7 | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 0.9  |
| 162.5° | 1.2 | 1.0   | 1.0 | 1.1   | 0.7 | 1.0    | 1.1  | 1.1    | 1.0  | 1.0    | 1.0  |
| 163°   | 1.2 | 1.0   | 1.2 | 1.1   | 0.7 | 1.0    | 1.1  | 1.1    | 1.0  | 1.0    | 1.0  |
| 163.5° | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.1  | 1.1    | 1.0  | 1.0    | 1.0  |
| 164°   | 1.2 | 1.0   | 1.1 | 1.1   | 0.9 | 1.0    | 1.1  | 1.1    | 1.0  | 1.1    | 1.0  |
| 164.5° | 1.2 | 1.0   | 1.1 | 1.1   | 0.9 | 1.0    | 1.1  | 1.1    | 0.9  | 1.1    | 1.0  |
| 165°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.1  | 1.1    | 1.0  | 1.1    | 1.0  |
| 165.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.1  | 1.1    | 1.0  | 1.1    | 1.0  |
| 166°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.1  | 1.1    | 1.0  | 1.1    | 1.0  |
| 166.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.1  | 1.1    | 1.0  | 1.1    | 1.0  |
| 167°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.1  | 1.1    | 1.0  | 1.1    | 1.0  |
| 167.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.0  | 1.1    | 1.2  |
| 168°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.0  | 1.2    | 1.2  |
| 168.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.0  | 1.3    | 1.1  |
| 169°   | 1.2 | 1.0   | 1.1 | 1.1   | 0.9 | 1.0    | 1.2  | 1.1    | 1.0  | 1.2    | 1.1  |
| 169.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 170°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 170.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 171°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.2  | 1.2    | 1.0  |
| 171.5° | 1.2 | 1.0   | 1.1 | 1.1   | 0.9 | 1.0    | 1.2  | 1.1    | 1.2  | 1.2    | 1.0  |
| 172°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 172.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 173°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 173.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 174°   | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 174.5° | 1.2 | 1.0   | 1.1 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 175°   | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 175.5° | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 176°   | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 176.5° | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 177°   | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 177.5° | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 178°   | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |
| 178.5° | 1.2 | 1.0   | 1.2 | 1.1   | 1.0 | 1.0    | 1.2  | 1.1    | 1.1  | 1.2    | 1.0  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 180° | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2    | 1.2  | 1.2    | 1.2  | 1.2    | 1.2  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 255.6  | 255.6 | 255.6  | 255.6 | 255.6  | 255.6 |
| 0.5°  | 255.6  | 255.6 | 255.6  | 255.9 | 255.6  | 255.7 |
| 1°    | 255.6  | 255.5 | 255.5  | 255.7 | 255.5  | 255.6 |
| 1.5°  | 255.6  | 255.5 | 255.4  | 255.6 | 255.6  | 255.7 |
| 2°    | 255.4  | 255.3 | 255.2  | 255.5 | 255.4  | 255.5 |
| 2.5°  | 255.3  | 255.1 | 255.2  | 255.4 | 255.3  | 255.5 |
| 3°    | 255.0  | 255.1 | 254.9  | 255.2 | 255.1  | 255.5 |
| 3.5°  | 254.8  | 254.8 | 254.8  | 255.0 | 255.0  | 255.3 |
| 4°    | 254.6  | 254.5 | 254.6  | 254.9 | 254.8  | 255.1 |
| 4.5°  | 254.2  | 254.4 | 254.4  | 254.6 | 254.7  | 254.9 |
| 5°    | 254.1  | 254.0 | 254.2  | 254.5 | 254.3  | 254.6 |
| 5.5°  | 253.8  | 253.7 | 253.8  | 254.0 | 254.1  | 254.4 |
| 6°    | 253.7  | 253.4 | 253.4  | 253.8 | 253.6  | 254.2 |
| 6.5°  | 253.1  | 253.1 | 253.3  | 253.4 | 253.5  | 253.9 |
| 7°    | 252.9  | 252.7 | 252.8  | 253.2 | 253.1  | 253.6 |
| 7.5°  | 252.5  | 252.4 | 252.6  | 252.7 | 252.9  | 253.3 |
| 8°    | 252.0  | 252.0 | 252.0  | 252.5 | 252.3  | 253.0 |
| 8.5°  | 251.6  | 251.6 | 251.7  | 251.9 | 252.1  | 252.6 |
| 9°    | 251.3  | 251.2 | 251.2  | 251.6 | 251.5  | 252.5 |
| 9.5°  | 250.8  | 250.6 | 251.4  | 251.0 | 251.3  | 251.8 |
| 10°   | 250.3  | 250.2 | 250.3  | 250.6 | 250.7  | 251.4 |
| 10.5° | 249.8  | 249.6 | 249.8  | 250.1 | 250.3  | 251.0 |
| 11°   | 249.1  | 249.2 | 249.3  | 249.7 | 249.7  | 250.5 |
| 11.5° | 248.6  | 248.4 | 248.7  | 249.1 | 249.3  | 250.1 |
| 12°   | 248.2  | 248.0 | 248.1  | 248.6 | 248.7  | 249.5 |
| 12.5° | 247.5  | 247.3 | 247.5  | 247.9 | 248.3  | 249.1 |
| 13°   | 246.9  | 246.8 | 246.9  | 247.4 | 247.5  | 248.4 |
| 13.5° | 246.3  | 246.0 | 246.2  | 246.8 | 247.0  | 247.9 |
| 14°   | 245.6  | 245.6 | 245.5  | 246.2 | 246.4  | 247.3 |
| 14.5° | 244.9  | 244.8 | 245.0  | 245.4 | 245.8  | 246.6 |
| 15°   | 244.3  | 244.2 | 244.2  | 245.0 | 245.0  | 246.0 |
| 15.5° | 243.5  | 243.4 | 243.7  | 244.1 | 244.6  | 245.3 |
| 16°   | 242.9  | 242.8 | 242.9  | 243.4 | 243.8  | 244.6 |
| 16.5° | 242.1  | 242.0 | 242.1  | 242.6 | 243.1  | 244.0 |
| 17°   | 241.4  | 241.3 | 241.2  | 242.0 | 242.2  | 243.2 |
| 17.5° | 240.6  | 240.3 | 240.6  | 241.1 | 241.6  | 242.4 |
| 18°   | 239.8  | 239.7 | 239.8  | 240.4 | 240.7  | 241.8 |
| 18.5° | 238.9  | 238.8 | 238.9  | 239.6 | 239.9  | 240.9 |
| 19°   | 238.1  | 238.0 | 237.9  | 238.8 | 239.1  | 240.1 |
| 19.5° | 237.0  | 237.1 | 237.1  | 237.8 | 238.3  | 239.4 |
| 20°   | 236.3  | 236.3 | 236.2  | 236.9 | 237.4  | 238.4 |
| 20.5° | 235.3  | 235.3 | 235.4  | 235.9 | 236.5  | 237.5 |
| 21°   | 234.4  | 234.5 | 234.5  | 235.2 | 235.8  | 236.5 |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 231.6  | 231.5 | 231.5  | 232.2 | 232.7  | 233.9 |
| 23°   | 230.5  | 230.6 | 230.6  | 231.4 | 231.9  | 232.9 |
| 23.5° | 229.4  | 229.5 | 229.5  | 230.3 | 231.0  | 231.8 |
| 24°   | 228.4  | 228.5 | 228.6  | 229.3 | 229.8  | 230.9 |
| 24.5° | 227.4  | 227.5 | 227.4  | 228.1 | 228.8  | 229.9 |
| 25°   | 226.4  | 226.4 | 226.3  | 227.2 | 227.7  | 228.9 |
| 25.5° | 225.2  | 225.3 | 225.2  | 226.1 | 226.8  | 227.8 |
| 26°   | 224.0  | 224.2 | 224.1  | 224.9 | 226.1  | 226.7 |
| 26.5° | 223.0  | 223.2 | 223.2  | 223.7 | 224.5  | 225.5 |
| 27°   | 221.8  | 222.1 | 222.0  | 222.8 | 223.4  | 224.5 |
| 27.5° | 220.6  | 220.9 | 220.8  | 221.6 | 222.4  | 223.4 |
| 28°   | 219.4  | 219.7 | 219.7  | 220.5 | 221.2  | 222.4 |
| 28.5° | 218.2  | 218.6 | 218.5  | 219.3 | 220.1  | 221.1 |
| 29°   | 217.1  | 217.3 | 217.2  | 218.1 | 218.9  | 220.0 |
| 29.5° | 215.7  | 216.1 | 216.0  | 216.9 | 217.8  | 218.9 |
| 30°   | 214.4  | 214.8 | 214.7  | 215.6 | 216.5  | 217.8 |
| 30.5° | 213.3  | 213.5 | 213.5  | 214.3 | 215.4  | 216.6 |
| 31°   | 212.1  | 212.3 | 212.1  | 213.1 | 214.0  | 215.3 |
| 31.5° | 210.6  | 211.0 | 210.9  | 211.6 | 212.7  | 214.0 |
| 32°   | 209.4  | 209.6 | 209.5  | 210.5 | 211.4  | 212.7 |
| 32.5° | 208.0  | 208.2 | 208.2  | 209.1 | 210.1  | 211.4 |
| 33°   | 206.6  | 206.8 | 206.7  | 207.7 | 208.7  | 210.2 |
| 33.5° | 205.3  | 205.4 | 205.4  | 206.3 | 207.5  | 208.8 |
| 34°   | 203.8  | 204.1 | 204.1  | 205.0 | 206.2  | 207.5 |
| 34.5° | 202.5  | 202.6 | 202.6  | 203.5 | 204.7  | 206.1 |
| 35°   | 201.0  | 201.3 | 201.1  | 202.1 | 203.3  | 204.8 |
| 35.5° | 199.5  | 199.7 | 199.7  | 200.8 | 201.8  | 203.4 |
| 36°   | 198.1  | 198.3 | 198.2  | 199.3 | 200.4  | 201.9 |
| 36.5° | 196.5  | 196.8 | 196.8  | 197.9 | 199.0  | 200.4 |
| 37°   | 195.0  | 195.4 | 195.3  | 196.4 | 197.4  | 199.1 |
| 37.5° | 193.5  | 193.7 | 193.8  | 194.9 | 195.9  | 197.6 |
| 38°   | 192.1  | 192.2 | 192.2  | 193.4 | 194.3  | 196.1 |
| 38.5° | 190.4  | 190.6 | 190.7  | 191.9 | 192.9  | 194.6 |
| 39°   | 189.0  | 189.2 | 189.3  | 190.4 | 191.4  | 193.1 |
| 39.5° | 187.4  | 187.6 | 187.7  | 188.8 | 189.9  | 191.5 |
| 40°   | 185.8  | 186.1 | 186.1  | 187.3 | 188.4  | 190.0 |
| 40.5° | 184.2  | 184.4 | 184.5  | 185.6 | 186.8  | 188.5 |
| 41°   | 182.6  | 182.8 | 182.9  | 184.1 | 185.2  | 187.1 |
| 41.5° | 181.0  | 181.2 | 181.3  | 182.4 | 183.7  | 185.4 |
| 42°   | 179.3  | 179.6 | 179.6  | 180.9 | 181.9  | 183.8 |
| 42.5° | 177.6  | 177.9 | 178.0  | 179.1 | 180.4  | 182.2 |
| 43°   | 176.0  | 176.2 | 176.2  | 177.4 | 178.6  | 180.6 |
| 43.5° | 174.3  | 174.4 | 174.6  | 175.8 | 177.1  | 178.9 |





TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 169.1  | 169.3 | 169.4  | 170.7 | 171.9  | 173.9 |
| 45.5° | 167.3  | 167.6 | 167.6  | 168.8 | 170.2  | 172.2 |
| 46°   | 165.6  | 165.8 | 165.8  | 167.1 | 168.5  | 170.4 |
| 46.5° | 163.8  | 164.1 | 164.1  | 165.3 | 166.7  | 168.7 |
| 47°   | 162.0  | 162.2 | 162.3  | 163.6 | 165.0  | 167.0 |
| 47.5° | 160.1  | 160.3 | 160.5  | 161.7 | 163.3  | 165.2 |
| 48°   | 158.4  | 158.6 | 158.6  | 159.9 | 161.5  | 163.4 |
| 48.5° | 156.5  | 156.7 | 156.8  | 158.0 | 159.7  | 161.7 |
| 49°   | 154.8  | 155.0 | 155.2  | 156.3 | 157.8  | 159.9 |
| 49.5° | 153.0  | 153.1 | 153.3  | 154.6 | 156.2  | 158.1 |
| 50°   | 151.1  | 151.2 | 151.5  | 152.7 | 154.4  | 156.3 |
| 50.5° | 149.2  | 149.4 | 149.6  | 150.8 | 152.6  | 154.5 |
| 51°   | 147.4  | 147.4 | 147.7  | 149.0 | 150.7  | 152.7 |
| 51.5° | 145.4  | 145.5 | 145.9  | 147.1 | 148.9  | 150.9 |
| 52°   | 143.6  | 143.6 | 144.0  | 145.2 | 146.9  | 149.0 |
| 52.5° | 141.6  | 141.7 | 142.0  | 143.3 | 145.1  | 147.0 |
| 53°   | 139.7  | 139.7 | 140.1  | 141.3 | 143.2  | 145.2 |
| 53.5° | 137.8  | 137.8 | 138.2  | 139.5 | 141.3  | 143.3 |
| 54°   | 135.8  | 135.8 | 136.2  | 137.5 | 139.4  | 141.4 |
| 54.5° | 133.8  | 133.9 | 134.3  | 135.4 | 137.4  | 139.6 |
| 55°   | 131.9  | 131.9 | 132.2  | 133.5 | 135.5  | 137.6 |
| 55.5° | 130.0  | 129.8 | 130.3  | 131.5 | 133.3  | 135.5 |
| 56°   | 128.0  | 127.9 | 128.2  | 129.6 | 131.4  | 133.6 |
| 56.5° | 126.0  | 125.8 | 126.4  | 127.6 | 129.5  | 131.6 |
| 57°   | 123.9  | 123.8 | 124.3  | 125.5 | 127.4  | 129.6 |
| 57.5° | 122.0  | 121.8 | 122.4  | 123.5 | 125.4  | 127.5 |
| 58°   | 120.0  | 119.8 | 120.3  | 121.6 | 123.5  | 125.6 |
| 58.5° | 118.0  | 117.8 | 118.3  | 119.6 | 121.5  | 123.5 |
| 59°   | 116.0  | 115.8 | 116.2  | 117.5 | 119.5  | 121.6 |
| 59.5° | 113.9  | 113.7 | 114.2  | 115.4 | 117.4  | 119.5 |
| 60°   | 111.9  | 111.6 | 112.0  | 113.4 | 115.3  | 117.4 |
| 60.5° | 109.8  | 109.5 | 110.1  | 111.3 | 113.2  | 115.4 |
| 61°   | 107.7  | 107.5 | 107.9  | 109.2 | 111.0  | 113.3 |
| 61.5° | 105.6  | 105.5 | 105.9  | 107.1 | 109.1  | 111.2 |
| 62°   | 103.6  | 103.3 | 103.7  | 105.1 | 106.9  | 109.1 |
| 62.5° | 101.5  | 101.1 | 101.6  | 102.9 | 104.8  | 107.0 |
| 63°   | 99.4   | 99.1  | 99.5   | 100.9 | 102.6  | 104.9 |
| 63.5° | 97.2   | 96.9  | 97.3   | 98.7  | 100.7  | 102.7 |
| 64°   | 95.2   | 94.9  | 95.3   | 96.7  | 98.4   | 100.7 |
| 64.5° | 93.1   | 92.7  | 93.2   | 94.6  | 96.4   | 98.6  |
| 65°   | 90.9   | 90.6  | 91.0   | 92.4  | 94.2   | 96.5  |
| 65.5° | 88.9   | 88.6  | 89.0   | 90.2  | 92.2   | 94.3  |
| 66°   | 86.7   | 86.5  | 86.9   | 88.4  | 90.0   | 92.2  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 80.4   | 80.0 | 80.4   | 81.9 | 84.0   | 86.1 |
| 68°   | 78.3   | 77.9 | 78.3   | 79.9 | 81.9   | 84.1 |
| 68.5° | 76.2   | 75.8 | 76.3   | 77.7 | 79.9   | 81.9 |
| 69°   | 74.1   | 73.7 | 74.1   | 75.7 | 77.7   | 79.8 |
| 69.5° | 72.0   | 71.5 | 72.0   | 73.4 | 75.6   | 77.7 |
| 70°   | 69.9   | 69.4 | 69.9   | 71.4 | 73.6   | 75.7 |
| 70.5° | 67.9   | 67.4 | 67.8   | 69.3 | 71.5   | 73.5 |
| 71°   | 65.8   | 65.3 | 65.6   | 67.2 | 69.4   | 71.5 |
| 71.5° | 63.6   | 63.1 | 63.6   | 65.1 | 67.3   | 69.3 |
| 72°   | 61.5   | 61.1 | 61.4   | 63.0 | 65.1   | 67.3 |
| 72.5° | 59.4   | 58.9 | 59.4   | 60.9 | 63.1   | 65.1 |
| 73°   | 57.3   | 56.9 | 57.3   | 58.8 | 60.9   | 63.1 |
| 73.5° | 55.3   | 54.8 | 55.4   | 56.7 | 58.8   | 60.9 |
| 74°   | 53.3   | 52.7 | 53.2   | 54.9 | 56.7   | 58.9 |
| 74.5° | 51.2   | 50.6 | 51.3   | 52.7 | 54.8   | 56.8 |
| 75°   | 49.1   | 48.6 | 49.1   | 50.6 | 52.7   | 54.8 |
| 75.5° | 47.0   | 46.5 | 47.2   | 48.6 | 50.7   | 52.7 |
| 76°   | 45.1   | 44.5 | 45.1   | 46.6 | 48.6   | 50.8 |
| 76.5° | 43.1   | 42.4 | 43.1   | 44.5 | 46.5   | 48.6 |
| 77°   | 41.1   | 40.4 | 41.1   | 42.5 | 44.5   | 46.6 |
| 77.5° | 39.2   | 38.6 | 39.2   | 40.6 | 42.4   | 44.6 |
| 78°   | 37.2   | 36.4 | 37.1   | 38.8 | 40.4   | 42.6 |
| 78.5° | 35.2   | 34.5 | 35.2   | 36.7 | 38.5   | 40.6 |
| 79°   | 33.3   | 32.5 | 33.3   | 34.8 | 36.5   | 38.8 |
| 79.5° | 31.5   | 30.7 | 31.4   | 32.8 | 34.8   | 36.8 |
| 80°   | 29.5   | 28.7 | 29.4   | 30.9 | 32.8   | 34.8 |
| 80.5° | 27.6   | 26.8 | 27.6   | 29.0 | 30.9   | 32.9 |
| 81°   | 25.8   | 25.0 | 25.8   | 27.2 | 29.0   | 31.0 |
| 81.5° | 24.0   | 23.2 | 24.0   | 25.4 | 27.1   | 29.2 |
| 82°   | 22.2   | 21.6 | 22.4   | 23.6 | 25.3   | 27.3 |
| 82.5° | 20.7   | 19.8 | 20.5   | 22.0 | 23.7   | 25.5 |
| 83°   | 19.0   | 18.1 | 18.8   | 20.3 | 22.0   | 23.7 |
| 83.5° | 17.2   | 16.4 | 17.1   | 18.5 | 20.3   | 22.0 |
| 84°   | 15.4   | 14.7 | 15.4   | 16.9 | 18.7   | 20.4 |
| 84.5° | 13.9   | 13.1 | 13.8   | 15.2 | 16.9   | 18.6 |
| 85°   | 12.2   | 11.4 | 12.1   | 13.5 | 15.2   | 17.0 |
| 85.5° | 10.7   | 9.8  | 10.5   | 12.0 | 13.6   | 15.2 |
| 86°   | 9.0    | 8.2  | 9.0    | 10.3 | 12.0   | 13.6 |
| 86.5° | 7.6    | 6.7  | 7.3    | 8.8  | 10.4   | 12.0 |
| 87°   | 6.0    | 5.2  | 5.9    | 7.2  | 8.8    | 10.4 |
| 87.5° | 4.7    | 3.8  | 4.5    | 5.8  | 7.3    | 8.9  |
| 88°   | 3.3    | 2.7  | 3.3    | 4.3  | 5.9    | 7.3  |
| 88.5° | 2.0    | 1.5  | 1.9    | 2.9  | 4.4    | 5.9  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 90°    | 0.4    | 0.6  | 0.6    | 0.5  | 0.6    | 0.9  |
| 90.5°  | 0.3    | 0.6  | 0.5    | 0.5  | 0.5    | 0.6  |
| 91°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.5    | 0.6  |
| 91.5°  | 0.3    | 0.5  | 0.5    | 0.5  | 0.5    | 0.6  |
| 92°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 92.5°  | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 93°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 93.5°  | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 94°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 94.5°  | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 95°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 95.5°  | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 96°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 96.5°  | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 97°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 97.5°  | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 98°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 98.5°  | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 99°    | 0.3    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 99.5°  | 0.4    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 100°   | 0.4    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 100.5° | 0.4    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 101°   | 0.4    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 101.5° | 0.4    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 102°   | 0.4    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 102.5° | 0.4    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 103°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 103.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 104°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 104.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 105°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 105.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 106°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 106.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 107°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 107.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 108°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 108.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.4    | 0.5  |
| 109°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 109.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 110°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 110.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 111°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 112.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 113°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 113.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 114°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 114.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 115°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 115.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 116°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 116.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 117°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 117.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 118°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 118.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 119°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 119.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 120°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 120.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 121°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.5  |
| 121.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.5  |
| 122°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.5  |
| 122.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.5  |
| 123°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.5  |
| 123.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.5  |
| 124°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.6  |
| 124.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.6  |
| 125°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.5  |
| 125.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.7  |
| 126°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.6  |
| 126.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.6  |
| 127°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.7  |
| 127.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.7  |
| 128°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.7  |
| 128.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.7  |
| 129°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.6    | 0.7  |
| 129.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |
| 130°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |
| 130.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |
| 131°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |
| 131.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |
| 132°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |
| 132.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |
| 133°   | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |
| 133.5° | 0.6    | 0.5  | 0.5    | 0.5  | 0.7    | 0.7  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 135°   | 0.7    | 0.5  | 0.6    | 0.5  | 0.7    | 0.8  |
| 135.5° | 0.7    | 0.5  | 0.6    | 0.5  | 0.7    | 0.8  |
| 136°   | 0.7    | 0.5  | 0.5    | 0.5  | 0.7    | 0.8  |
| 136.5° | 0.7    | 0.5  | 0.6    | 0.5  | 0.7    | 0.8  |
| 137°   | 0.7    | 0.5  | 0.7    | 0.5  | 0.7    | 0.8  |
| 137.5° | 0.7    | 0.5  | 0.6    | 0.5  | 0.7    | 0.8  |
| 138°   | 0.7    | 0.5  | 0.7    | 0.5  | 0.7    | 0.8  |
| 138.5° | 0.7    | 0.5  | 0.6    | 0.5  | 0.7    | 0.8  |
| 139°   | 0.7    | 0.5  | 0.7    | 0.6  | 0.7    | 0.8  |
| 139.5° | 0.7    | 0.5  | 0.7    | 0.6  | 0.7    | 0.8  |
| 140°   | 0.7    | 0.5  | 0.7    | 0.6  | 0.8    | 0.8  |
| 140.5° | 0.7    | 0.5  | 0.7    | 0.7  | 0.8    | 0.8  |
| 141°   | 0.7    | 0.5  | 0.7    | 0.7  | 0.7    | 0.8  |
| 141.5° | 0.7    | 0.5  | 0.7    | 0.7  | 0.8    | 0.8  |
| 142°   | 0.8    | 0.5  | 0.7    | 0.7  | 0.8    | 0.8  |
| 142.5° | 0.7    | 0.5  | 0.7    | 0.7  | 0.8    | 0.8  |
| 143°   | 0.7    | 0.5  | 0.7    | 0.7  | 0.8    | 0.8  |
| 143.5° | 0.7    | 0.6  | 0.7    | 0.8  | 0.8    | 0.8  |
| 144°   | 0.7    | 0.6  | 0.7    | 0.8  | 0.8    | 0.8  |
| 144.5° | 0.7    | 0.6  | 0.7    | 0.7  | 0.9    | 0.8  |
| 145°   | 0.7    | 0.6  | 0.8    | 0.8  | 0.9    | 0.8  |
| 145.5° | 0.7    | 0.7  | 0.8    | 0.8  | 0.9    | 0.8  |
| 146°   | 0.7    | 0.7  | 0.8    | 0.8  | 0.9    | 0.8  |
| 146.5° | 0.7    | 0.8  | 0.8    | 0.8  | 0.9    | 1.0  |
| 147°   | 0.7    | 0.8  | 0.8    | 0.8  | 0.9    | 1.0  |
| 147.5° | 0.7    | 0.8  | 0.8    | 0.8  | 1.0    | 0.9  |
| 148°   | 0.7    | 0.8  | 0.8    | 0.9  | 1.0    | 0.9  |
| 148.5° | 0.7    | 0.9  | 0.8    | 0.9  | 1.0    | 0.9  |
| 149°   | 0.7    | 0.9  | 0.9    | 0.9  | 1.1    | 0.9  |
| 149.5° | 0.7    | 0.8  | 0.9    | 1.0  | 1.1    | 1.0  |
| 150°   | 0.8    | 0.8  | 0.9    | 1.0  | 1.0    | 1.0  |
| 150.5° | 0.8    | 0.8  | 1.0    | 1.0  | 1.0    | 1.0  |
| 151°   | 0.8    | 0.8  | 1.0    | 1.0  | 1.1    | 1.0  |
| 151.5° | 0.8    | 0.8  | 1.0    | 1.0  | 1.1    | 1.0  |
| 152°   | 0.9    | 0.9  | 1.0    | 1.0  | 1.1    | 1.1  |
| 152.5° | 0.9    | 1.0  | 1.0    | 1.0  | 1.1    | 1.1  |
| 153°   | 0.8    | 0.9  | 1.1    | 1.0  | 1.1    | 1.0  |
| 153.5° | 0.8    | 0.9  | 1.1    | 1.0  | 1.1    | 1.0  |
| 154°   | 0.8    | 0.9  | 1.0    | 1.0  | 1.1    | 1.0  |
| 154.5° | 0.9    | 0.9  | 1.2    | 1.0  | 1.1    | 1.0  |
| 155°   | 0.9    | 0.9  | 1.2    | 1.0  | 1.1    | 1.0  |
| 155.5° | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.1  |
| 156°   | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.1  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 157.5° | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.1  |
| 158°   | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.1  |
| 158.5° | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.2  |
| 159°   | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.2  |
| 159.5° | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.2  |
| 160°   | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.2  |
| 160.5° | 1.0    | 0.9  | 1.1    | 1.0  | 1.1    | 1.2  |
| 161°   | 1.0    | 1.0  | 1.1    | 1.0  | 1.1    | 1.2  |
| 161.5° | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 1.2  |
| 162°   | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 1.2  |
| 162.5° | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 1.2  |
| 163°   | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 1.2  |
| 163.5° | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 1.2  |
| 164°   | 1.0    | 1.0  | 1.1    | 1.0  | 1.0    | 1.2  |
| 164.5° | 1.1    | 1.0  | 1.1    | 1.0  | 1.0    | 1.2  |
| 165°   | 1.1    | 1.0  | 1.1    | 1.1  | 1.0    | 1.2  |
| 165.5° | 1.1    | 1.1  | 1.1    | 1.0  | 1.0    | 1.2  |
| 166°   | 1.2    | 1.0  | 1.1    | 1.0  | 1.0    | 1.2  |
| 166.5° | 1.2    | 1.0  | 1.1    | 1.2  | 1.0    | 1.2  |
| 167°   | 1.2    | 1.0  | 1.1    | 1.2  | 1.0    | 1.2  |
| 167.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 168°   | 1.2    | 1.0  | 1.1    | 1.1  | 1.0    | 1.2  |
| 168.5° | 1.2    | 1.0  | 1.1    | 1.1  | 1.0    | 1.2  |
| 169°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 169.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 170°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 170.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 171°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 171.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 172°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 172.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 173°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 173.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 174°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 174.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 175°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 175.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 176°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 176.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 177°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 177.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 178°   | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |
| 178.5° | 1.2    | 1.0  | 1.2    | 1.1  | 1.0    | 1.2  |



TEST NUMBER: P417448

CATALOG NUMBER: SMD6S69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 1.2    | 1.2  | 1.2    | 1.2  | 1.2    | 1.2  |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°







|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 235.7 | 236.0 | 236.2 | 236.4 | 236.8 | 236.5 | 235.9 | 235.3 | 234.8 | 234.2 | 233.6 |
| 22°   | 234.8 | 235.1 | 235.4 | 235.5 | 235.8 | 235.4 | 234.9 | 234.3 | 233.9 | 233.1 | 232.6 |



|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 177.3 | 177.8 | 178.0 | 178.2 | 179.1 | 178.0 | 177.2 | 176.3 | 175.8 | 174.1 | 172.9 |
| 44.5° | 175.6 | 176.0 | 176.4 | 176.7 | 177.4 | 176.5 | 175.4 | 174.5 | 174.0 | 172.3 | 171.2 |



|       |      |      |      |      |      |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 66.5° | 90.1 | 91.1 | 91.6 | 91.7 | 92.9 | 91.6 | 90.5 | 89.5 | 88.8 | 86.9 | 85.3 |
| 67°   | 88.2 | 89.2 | 89.5 | 89.6 | 90.7 | 89.7 | 88.7 | 87.7 | 86.7 | 84.9 | 83.2 |



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89°   | 4.7 | 5.3 | 5.4 | 5.3 | 5.7 | 5.5 | 5.0 | 4.6 | 3.9 | 2.7 | 1.4 |
| 89.5° | 2.2 | 3.8 | 3.9 | 3.9 | 4.5 | 4.0 | 3.7 | 3.1 | 2.3 | 1.1 | 0.3 |





|        |     |     |     |     |     |     |     |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 111.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 |
| 112°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 |



|        |     |     |     |     |     |     |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 134°   | 0.8 | 0.7 | 0.5 | 0.7 | 0.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 |
| 134.5° | 0.8 | 0.8 | 0.5 | 0.7 | 0.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 |



|        |     |     |     |     |     |     |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 156.5° | 1.1 | 1.1 | 1.0 | 1.1 | 0.7 | 0.9 | 0.9 | 0.9 | 1.0 | 0.8 | 0.8 |
| 157°   | 1.2 | 1.0 | 1.0 | 1.0 | 0.7 | 1.0 | 1.0 | 0.9 | 1.0 | 0.9 | 0.9 |



|        |     |     |     |     |     |     |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 179°   | 1.2 | 1.0 | 1.2 | 1.1 | 1.0 | 1.0 | 1.2 | 1.1 | 1.1 | 1.2 | 1.0 |
| 179.5° | 1.2 | 1.0 | 1.2 | 1.1 | 1.0 | 1.0 | 1.2 | 1.1 | 1.1 | 1.2 | 1.0 |





|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 233.4 | 233.3 | 233.5 | 234.1 | 234.7 | 235.7 |
| 22°   | 232.5 | 232.6 | 232.5 | 233.2 | 233.7 | 234.8 |



|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 172.5 | 172.8 | 172.9 | 174.1 | 175.4 | 177.3 |
| 44.5° | 170.8 | 171.1 | 171.1 | 172.4 | 173.7 | 175.6 |



|       |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|
| 66.5° | 84.6 | 84.3 | 84.9 | 86.3 | 88.2 | 90.1 |
| 67°   | 82.5 | 82.2 | 82.7 | 84.2 | 86.1 | 88.2 |





|       |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|
| 89°   | 0.8 | 0.8 | 1.0 | 1.5 | 3.0 | 4.7 |
| 89.5° | 0.4 | 0.6 | 0.6 | 0.7 | 1.2 | 2.2 |



|        |     |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|-----|
| 111.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 |
| 112°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 |



|        |     |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|-----|
| 134°   | 0.7 | 0.5 | 0.5 | 0.5 | 0.7 | 0.8 |
| 134.5° | 0.7 | 0.5 | 0.6 | 0.5 | 0.7 | 0.8 |



|        |     |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|-----|
| 156.5° | 1.0 | 0.9 | 1.1 | 1.0 | 1.1 | 1.1 |
| 157°   | 1.0 | 0.9 | 1.1 | 1.0 | 1.1 | 1.2 |



|        |     |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|-----|
| 179°   | 1.2 | 1.0 | 1.2 | 1.1 | 1.0 | 1.2 |
| 179.5° | 1.2 | 1.0 | 1.2 | 1.1 | 1.0 | 1.2 |



(END OF REPORT)