

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: HALO

Report Number: P639464

Luminaire Tested: RL3059FSD2W1EWH -500LM -2700K

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2206886A001)  
Test Lab:  
Issue Date: 1/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: RL3059FSD2W1EWH -500LM -2700K  
Description: 3IN RETROFIT, 500LM SELECTABLE CCT, MATTE WHITE BAFFLE  
Light Source: (1) DEDICATED LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

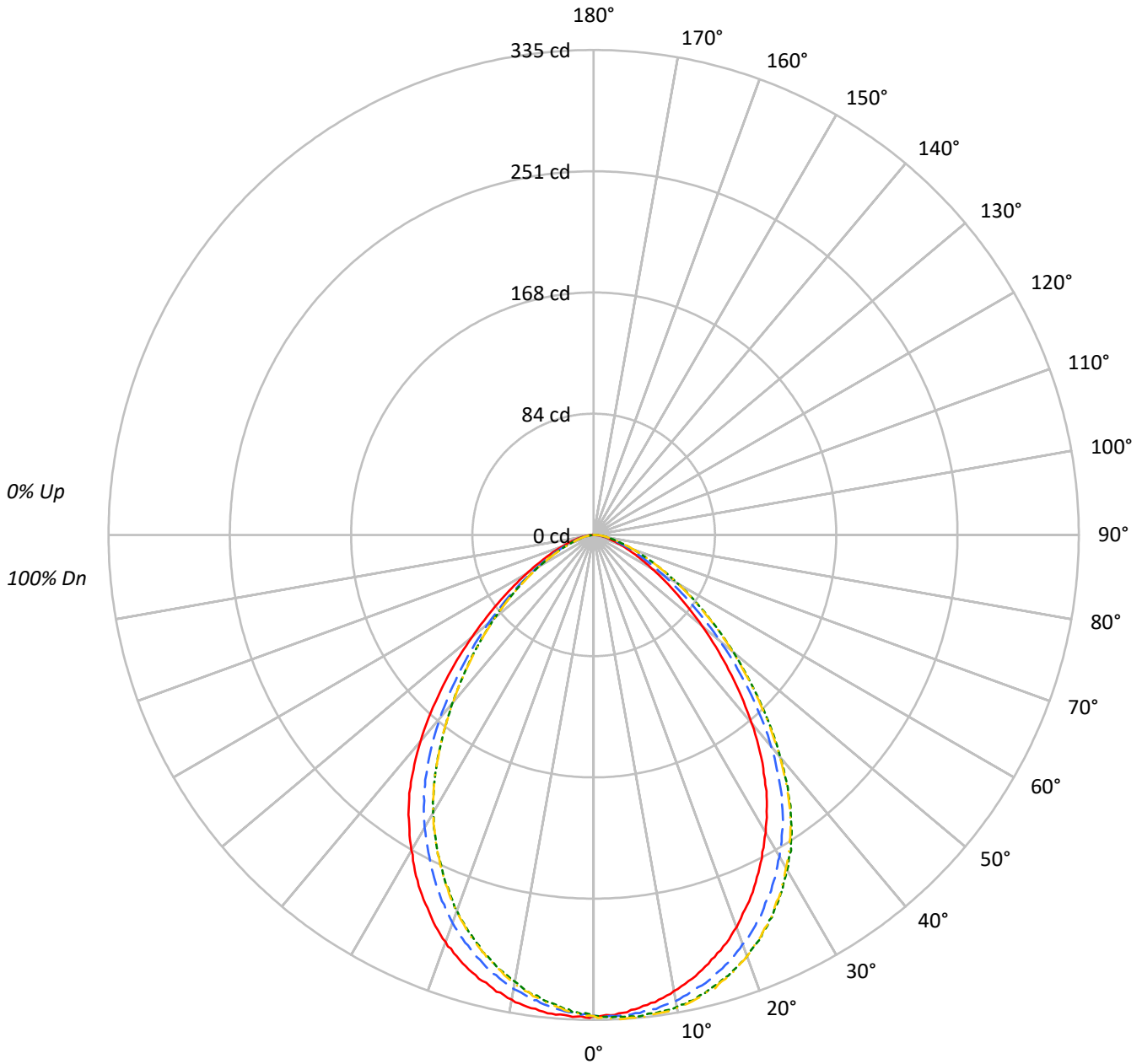
Lumens per Lamp: N/A  
Luminaire Lumens: 605.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.16  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P639464  
CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P639464

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |   |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|
| RF  | 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  | 50  | 30  | 10  | 0   |  |   |
| RCR | 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 |  |   |
|     | 1  | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 89  | 89  | 89  | 89  | 89  | 89  |  |   |
|     | 2  | 103 | 96  | 91  | 86  | 101 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 78  | 78  | 78  | 78  | 78  | 78  |  |   |
|     | 3  | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  | 68  | 68  | 68  | 68  | 68  |  |   |
|     | 4  | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 65  | 75  | 69  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 60  | 60  | 60  | 60  | 60  | 60  |  |   |
|     | 5  | 82  | 71  | 63  | 58  | 80  | 70  | 63  | 57  | 68  | 62  | 57  | 66  | 61  | 56  | 64  | 60  | 56  | 54  | 54  | 54  | 54  | 54  | 54  |  |   |
|     | 6  | 77  | 65  | 57  | 51  | 75  | 64  | 57  | 51  | 62  | 56  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 48  | 48  | 48  | 48  | 48  | 48  |  |   |
|     | 7  | 72  | 60  | 52  | 46  | 70  | 59  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 43  | 43  | 43  | 43  | 43  | 43  |  |   |
|     | 8  | 67  | 55  | 47  | 42  | 66  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 39  | 39  | 39  | 39  | 39  | 39  |  |   |
|     | 9  | 63  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  | 36  | 36  | 36  | 36  | 36  |  |   |
|     | 10 | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 33  | 33  | 33  | 33  | 33  | 33  |  |   |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 72889 | 72889 | 72889 | 72889 |
| 5°  | 72419 | 73520 | 73057 | 71516 |
| 10° | 71230 | 73724 | 72566 | 69760 |
| 15° | 69626 | 73213 | 71442 | 67651 |
| 20° | 67323 | 72270 | 69796 | 64452 |
| 25° | 64044 | 70504 | 67238 | 60512 |
| 30° | 60136 | 67681 | 63731 | 56161 |
| 35° | 55198 | 63577 | 59454 | 50246 |
| 40° | 48519 | 57365 | 53271 | 43424 |
| 45° | 40872 | 50207 | 45586 | 36872 |
| 50° | 33329 | 43052 | 37423 | 30396 |
| 55° | 26264 | 35975 | 29973 | 24506 |
| 60° | 20393 | 29427 | 23463 | 19034 |
| 65° | 16033 | 23453 | 18627 | 14269 |
| 70° | 12630 | 18401 | 14938 | 10899 |
| 75° | 9743  | 14488 | 11861 | 8472  |
| 80° | 8208  | 12375 | 10229 | 6440  |
| 85° | 5284  | 12580 | 8806  | 2516  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 112.5°  
 Vertical Angle: 45°  
 Luminance: 50455 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 31.3   | 5.2       |
| 10°-20°   | 87.3   | 14.4      |
| 20°-30°   | 124.3  | 20.5      |
| 30°-40°   | 132.4  | 21.9      |
| 40°-50°   | 107.8  | 17.8      |
| 50°-60°   | 68.8   | 11.4      |
| 60°-70°   | 35.2   | 5.8       |
| 70°-80°   | 14.5   | 2.4       |
| 80°-90°   | 3.5    | 0.6       |
| 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°    | 242.8  | 40.1      |
| 0°-40°    | 375.3  | 62.0      |
| 0°-60°    | 551.8  | 91.2      |
| 0°-90°    | 605.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 605.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0°  | 332 | 332 | 332  | 332  | 332  |      |
| 5°  | 329 | 334 | 332  | 325  | 329  | 31   |
| 15° | 307 | 322 | 315  | 298  | 307  | 86   |
| 25° | 265 | 291 | 278  | 250  | 265  | 121  |
| 35° | 206 | 238 | 222  | 188  | 206  | 128  |
| 45° | 132 | 162 | 147  | 119  | 132  | 102  |
| 55° | 69  | 94  | 78   | 64   | 69   | 62   |
| 65° | 31  | 45  | 36   | 28   | 31   | 31   |
| 75° | 12  | 17  | 14   | 10   | 12   | 13   |
| 85° | 2   | 5   | 4    | 1    | 2    | 3    |
| 90° | 0   | 1   | 0    | 0    | 0    |      |



TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 332.4 | 332.4 | 332.4 | 332.4 | 332.4 | 332.4  | 332.4 | 332.4  | 332.4 | 332.4  | 332.4 |
| 0.5°  | 332.7 | 332.5 | 332.0 | 331.6 | 332.4 | 333.0  | 333.6 | 332.6  | 333.7 | 332.3  | 332.3 |
| 1°    | 332.3 | 332.5 | 332.8 | 332.2 | 333.0 | 333.4  | 333.6 | 333.2  | 333.4 | 332.7  | 330.9 |
| 1.5°  | 331.7 | 332.3 | 332.9 | 333.2 | 333.1 | 333.9  | 334.4 | 333.5  | 332.6 | 332.6  | 331.5 |
| 2°    | 332.0 | 331.9 | 332.3 | 333.0 | 333.5 | 333.0  | 334.2 | 333.6  | 333.0 | 331.3  | 330.9 |
| 2.5°  | 332.0 | 331.7 | 332.6 | 333.8 | 333.2 | 333.7  | 334.5 | 333.8  | 333.3 | 331.7  | 330.1 |
| 3°    | 331.0 | 331.5 | 332.7 | 333.1 | 333.2 | 334.3  | 335.0 | 333.9  | 332.7 | 331.5  | 330.3 |
| 3.5°  | 330.8 | 331.7 | 332.5 | 333.3 | 333.6 | 334.8  | 335.0 | 333.5  | 332.3 | 330.9  | 329.6 |
| 4°    | 330.5 | 330.9 | 332.7 | 332.9 | 333.5 | 334.3  | 334.7 | 333.6  | 332.1 | 330.0  | 328.9 |
| 4.5°  | 329.1 | 330.8 | 332.3 | 333.0 | 333.6 | 334.6  | 334.5 | 333.2  | 332.4 | 330.3  | 328.4 |
| 5°    | 329.0 | 330.3 | 331.5 | 333.3 | 334.0 | 333.7  | 334.8 | 333.1  | 331.9 | 329.6  | 328.2 |
| 5.5°  | 328.2 | 329.9 | 331.9 | 332.7 | 334.0 | 334.4  | 335.1 | 332.3  | 332.0 | 328.4  | 326.8 |
| 6°    | 327.0 | 329.1 | 330.8 | 332.8 | 333.6 | 333.5  | 334.7 | 332.4  | 331.2 | 329.1  | 326.2 |
| 6.5°  | 326.9 | 328.4 | 330.9 | 332.2 | 332.9 | 334.2  | 334.5 | 332.3  | 330.8 | 327.9  | 325.3 |
| 7°    | 325.7 | 328.0 | 330.1 | 331.5 | 332.9 | 334.3  | 333.8 | 331.3  | 329.7 | 327.0  | 323.7 |
| 7.5°  | 325.7 | 328.3 | 330.3 | 331.7 | 333.0 | 333.6  | 333.5 | 331.1  | 329.8 | 326.4  | 324.4 |
| 8°    | 324.1 | 326.5 | 329.3 | 330.8 | 332.5 | 333.6  | 333.3 | 330.6  | 329.2 | 325.8  | 322.5 |
| 8.5°  | 323.4 | 326.0 | 328.6 | 331.6 | 332.2 | 332.5  | 333.3 | 329.7  | 328.5 | 325.0  | 321.4 |
| 9°    | 322.1 | 325.4 | 328.0 | 330.0 | 332.1 | 332.7  | 333.2 | 330.7  | 327.6 | 324.2  | 320.1 |
| 9.5°  | 321.4 | 324.3 | 326.8 | 330.1 | 331.8 | 332.1  | 332.1 | 329.0  | 327.4 | 323.1  | 319.2 |
| 10°   | 319.9 | 322.9 | 326.9 | 329.4 | 331.1 | 331.8  | 331.8 | 328.4  | 325.9 | 321.9  | 318.6 |
| 10.5° | 319.0 | 322.7 | 326.0 | 327.8 | 330.0 | 331.3  | 331.0 | 328.3  | 325.3 | 321.6  | 316.2 |
| 11°   | 317.6 | 321.6 | 324.7 | 328.0 | 330.3 | 330.1  | 330.7 | 327.6  | 324.0 | 320.7  | 315.8 |
| 11.5° | 316.5 | 320.2 | 324.1 | 327.7 | 328.8 | 329.8  | 330.0 | 326.1  | 322.7 | 319.2  | 314.4 |
| 12°   | 315.0 | 319.6 | 322.8 | 326.4 | 329.0 | 329.4  | 329.1 | 325.3  | 322.7 | 317.4  | 313.2 |
| 12.5° | 314.0 | 318.0 | 321.7 | 325.7 | 327.7 | 327.8  | 328.2 | 324.1  | 320.9 | 316.1  | 311.4 |
| 13°   | 312.8 | 316.4 | 320.6 | 324.4 | 326.4 | 327.7  | 327.6 | 323.4  | 319.6 | 314.9  | 310.9 |
| 13.5° | 311.0 | 315.0 | 320.1 | 323.9 | 326.0 | 326.1  | 325.8 | 322.0  | 318.0 | 314.1  | 309.0 |
| 14°   | 309.7 | 314.1 | 319.1 | 322.5 | 324.7 | 325.8  | 325.3 | 321.3  | 317.6 | 312.4  | 307.4 |
| 14.5° | 307.9 | 312.8 | 317.8 | 321.0 | 323.5 | 324.9  | 324.7 | 320.6  | 316.7 | 311.4  | 305.6 |
| 15°   | 306.7 | 311.4 | 316.6 | 320.4 | 322.5 | 323.8  | 324.2 | 318.8  | 314.7 | 310.2  | 303.7 |
| 15.5° | 304.3 | 310.2 | 314.8 | 319.1 | 321.7 | 323.0  | 322.2 | 317.3  | 313.7 | 308.0  | 302.5 |
| 16°   | 303.2 | 308.6 | 313.5 | 318.0 | 320.2 | 321.4  | 320.7 | 316.1  | 312.5 | 307.1  | 300.7 |
| 16.5° | 301.2 | 306.7 | 312.5 | 317.5 | 319.0 | 319.8  | 320.0 | 314.4  | 310.8 | 305.5  | 298.6 |
| 17°   | 300.2 | 305.0 | 310.8 | 315.2 | 318.4 | 319.4  | 318.7 | 313.2  | 309.6 | 303.1  | 296.4 |
| 17.5° | 297.8 | 303.8 | 309.6 | 314.1 | 316.6 | 317.7  | 317.4 | 311.4  | 307.9 | 301.6  | 295.3 |
| 18°   | 296.5 | 301.7 | 308.0 | 313.6 | 315.3 | 317.3  | 316.3 | 310.9  | 306.0 | 299.8  | 293.1 |
| 18.5° | 294.6 | 300.4 | 306.3 | 311.3 | 314.1 | 315.0  | 314.3 | 308.9  | 304.6 | 297.7  | 291.7 |
| 19°   | 292.1 | 298.7 | 304.4 | 310.4 | 312.5 | 313.6  | 312.6 | 307.7  | 302.3 | 296.0  | 289.1 |
| 19.5° | 290.2 | 296.7 | 303.0 | 308.5 | 311.4 | 312.1  | 311.5 | 305.0  | 301.5 | 294.4  | 287.3 |
| 20°   | 288.5 | 294.5 | 300.7 | 307.1 | 309.7 | 310.4  | 309.6 | 304.1  | 299.1 | 291.7  | 285.0 |
| 20.5° | 285.9 | 292.9 | 300.4 | 304.5 | 307.6 | 308.4  | 308.0 | 301.7  | 297.7 | 290.0  | 282.9 |
| 21°   | 283.7 | 290.5 | 298.0 | 303.5 | 306.0 | 306.7  | 306.2 | 300.4  | 295.6 | 288.2  | 280.4 |



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CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 276.9 | 284.4 | 292.0 | 298.2 | 301.6 | 301.8  | 300.9 | 294.2  | 289.4 | 281.3  | 273.8 |
| 23°   | 274.9 | 282.0 | 289.3 | 296.0 | 298.5 | 300.0  | 298.6 | 292.1  | 287.0 | 279.2  | 271.2 |
| 23.5° | 272.2 | 280.4 | 288.3 | 294.1 | 297.0 | 298.0  | 296.1 | 290.2  | 284.6 | 276.8  | 268.4 |
| 24°   | 270.2 | 277.8 | 285.9 | 292.3 | 295.3 | 295.3  | 294.8 | 288.4  | 282.0 | 274.8  | 266.6 |
| 24.5° | 267.1 | 275.5 | 283.4 | 290.3 | 292.5 | 294.2  | 292.4 | 285.8  | 280.1 | 272.0  | 263.4 |
| 25°   | 264.7 | 273.4 | 280.5 | 287.6 | 291.4 | 291.1  | 290.7 | 283.4  | 277.9 | 269.9  | 261.0 |
| 25.5° | 261.9 | 270.5 | 278.7 | 285.4 | 288.8 | 289.7  | 288.1 | 281.5  | 275.3 | 267.6  | 258.0 |
| 26°   | 259.7 | 267.9 | 276.7 | 283.3 | 286.1 | 287.7  | 285.4 | 278.4  | 273.2 | 264.6  | 255.8 |
| 26.5° | 256.6 | 265.6 | 274.8 | 281.5 | 284.5 | 284.6  | 282.9 | 277.0  | 271.0 | 262.2  | 252.7 |
| 27°   | 253.9 | 263.1 | 271.8 | 279.2 | 282.1 | 282.6  | 281.6 | 274.4  | 267.8 | 259.3  | 249.9 |
| 27.5° | 251.7 | 260.6 | 269.3 | 277.0 | 279.6 | 280.0  | 279.0 | 271.2  | 265.7 | 256.6  | 247.3 |
| 28°   | 248.0 | 258.1 | 267.3 | 274.2 | 277.9 | 278.2  | 276.4 | 268.6  | 262.8 | 253.9  | 244.4 |
| 28.5° | 245.9 | 254.7 | 264.4 | 271.9 | 274.5 | 275.2  | 273.2 | 265.9  | 259.9 | 251.2  | 241.7 |
| 29°   | 243.0 | 251.8 | 261.8 | 269.5 | 272.0 | 272.2  | 271.1 | 263.2  | 257.5 | 248.0  | 239.0 |
| 29.5° | 239.8 | 249.6 | 258.6 | 266.6 | 269.8 | 269.8  | 268.4 | 260.9  | 253.9 | 245.5  | 236.0 |
| 30°   | 237.5 | 246.5 | 256.7 | 264.2 | 267.3 | 267.7  | 265.6 | 258.4  | 251.7 | 242.7  | 233.5 |
| 30.5° | 234.2 | 244.4 | 253.7 | 261.8 | 265.1 | 264.9  | 263.1 | 256.0  | 248.6 | 239.9  | 230.3 |
| 31°   | 231.6 | 241.0 | 251.0 | 259.5 | 261.6 | 262.4  | 260.5 | 252.5  | 246.1 | 237.1  | 227.6 |
| 31.5° | 228.9 | 238.6 | 248.6 | 256.0 | 259.0 | 259.2  | 257.8 | 249.6  | 243.4 | 233.8  | 224.5 |
| 32°   | 225.2 | 235.9 | 244.9 | 253.5 | 257.2 | 256.9  | 255.0 | 247.0  | 240.1 | 231.0  | 221.3 |
| 32.5° | 222.5 | 232.6 | 242.2 | 250.9 | 253.5 | 254.2  | 251.7 | 244.3  | 236.9 | 228.0  | 217.8 |
| 33°   | 219.4 | 229.8 | 240.0 | 247.8 | 250.5 | 250.8  | 249.2 | 240.9  | 234.2 | 225.4  | 215.4 |
| 33.5° | 216.4 | 226.9 | 236.9 | 245.1 | 247.7 | 247.8  | 246.1 | 238.3  | 231.8 | 221.3  | 212.0 |
| 34°   | 213.5 | 223.3 | 233.6 | 241.4 | 244.6 | 244.6  | 243.2 | 234.9  | 228.3 | 219.1  | 208.2 |
| 34.5° | 209.3 | 219.7 | 230.1 | 238.5 | 240.9 | 242.0  | 240.3 | 231.6  | 225.3 | 215.5  | 205.3 |
| 35°   | 206.2 | 216.6 | 226.8 | 234.4 | 237.5 | 238.4  | 236.1 | 228.9  | 222.1 | 212.6  | 201.4 |
| 35.5° | 202.2 | 213.5 | 224.2 | 231.8 | 234.3 | 235.0  | 233.6 | 225.4  | 219.2 | 208.9  | 197.9 |
| 36°   | 199.4 | 210.0 | 220.5 | 228.2 | 231.4 | 231.3  | 229.9 | 222.0  | 215.2 | 205.8  | 194.4 |
| 36.5° | 195.9 | 206.4 | 216.6 | 224.4 | 227.2 | 227.8  | 226.0 | 218.4  | 212.4 | 202.2  | 191.1 |
| 37°   | 192.2 | 202.9 | 212.9 | 220.7 | 223.1 | 224.3  | 222.5 | 214.6  | 208.3 | 198.3  | 187.1 |
| 37.5° | 188.6 | 199.0 | 209.6 | 217.4 | 220.2 | 220.4  | 219.5 | 211.0  | 204.4 | 194.6  | 183.4 |
| 38°   | 184.9 | 195.7 | 205.5 | 213.6 | 216.3 | 216.6  | 214.9 | 207.3  | 201.0 | 191.2  | 179.8 |
| 38.5° | 181.3 | 191.5 | 202.1 | 209.8 | 212.0 | 212.4  | 211.4 | 203.8  | 197.5 | 187.3  | 176.1 |
| 39°   | 177.3 | 188.3 | 198.5 | 206.1 | 208.6 | 208.9  | 207.5 | 199.5  | 193.4 | 183.7  | 172.6 |
| 39.5° | 173.8 | 184.4 | 194.6 | 202.5 | 204.5 | 204.9  | 203.7 | 196.1  | 189.7 | 180.2  | 168.6 |
| 40°   | 169.5 | 180.7 | 190.7 | 198.7 | 200.4 | 201.0  | 199.6 | 191.7  | 186.1 | 176.1  | 164.8 |
| 40.5° | 165.8 | 176.6 | 186.7 | 194.9 | 196.8 | 197.2  | 196.0 | 188.6  | 182.3 | 172.1  | 161.3 |
| 41°   | 162.2 | 173.0 | 183.3 | 190.8 | 193.0 | 193.3  | 191.9 | 184.7  | 178.6 | 168.1  | 157.3 |
| 41.5° | 158.0 | 168.9 | 179.1 | 187.0 | 189.1 | 189.3  | 187.7 | 180.6  | 174.1 | 164.8  | 153.5 |
| 42°   | 154.8 | 165.4 | 175.4 | 183.1 | 185.3 | 185.6  | 184.0 | 176.6  | 170.7 | 160.7  | 150.0 |
| 42.5° | 150.8 | 161.3 | 171.2 | 179.3 | 181.3 | 181.9  | 180.3 | 172.4  | 166.5 | 156.7  | 146.3 |
| 43°   | 146.8 | 157.4 | 167.0 | 175.3 | 177.5 | 177.8  | 176.7 | 168.7  | 162.7 | 153.1  | 142.5 |
| 43.5° | 143.1 | 153.4 | 163.2 | 171.0 | 173.4 | 173.9  | 172.4 | 164.8  | 158.3 | 149.2  | 138.5 |



TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 131.8 | 141.8 | 151.8 | 159.6 | 161.9 | 162.7  | 160.9 | 152.7  | 147.0 | 137.4  | 127.9 |
| 45.5° | 128.7 | 137.7 | 147.8 | 155.6 | 158.3 | 158.5  | 156.8 | 149.1  | 143.1 | 133.9  | 124.5 |
| 46°   | 124.8 | 134.0 | 143.8 | 151.5 | 154.3 | 155.2  | 153.6 | 145.6  | 139.6 | 129.9  | 121.1 |
| 46.5° | 121.3 | 130.3 | 139.8 | 147.9 | 150.8 | 151.4  | 149.5 | 141.9  | 135.2 | 126.3  | 117.5 |
| 47°   | 117.8 | 126.3 | 135.8 | 144.4 | 147.0 | 147.8  | 146.2 | 137.7  | 131.6 | 122.5  | 114.0 |
| 47.5° | 114.3 | 122.7 | 132.5 | 140.2 | 143.5 | 144.3  | 142.3 | 134.5  | 127.9 | 119.0  | 111.0 |
| 48°   | 110.8 | 118.8 | 128.5 | 137.1 | 139.6 | 140.8  | 138.7 | 130.4  | 124.3 | 115.4  | 107.4 |
| 48.5° | 107.3 | 115.2 | 124.8 | 132.8 | 136.4 | 137.1  | 135.2 | 127.2  | 120.5 | 111.8  | 104.2 |
| 49°   | 104.1 | 111.7 | 121.2 | 129.4 | 132.9 | 133.8  | 131.8 | 123.2  | 116.7 | 108.6  | 100.9 |
| 49.5° | 100.8 | 108.2 | 117.1 | 125.8 | 129.4 | 130.6  | 128.1 | 119.8  | 113.3 | 105.1  | 97.8  |
| 50°   | 97.7  | 104.7 | 113.9 | 122.4 | 126.2 | 127.0  | 124.8 | 116.4  | 109.7 | 101.6  | 94.7  |
| 50.5° | 94.5  | 101.5 | 110.3 | 118.7 | 122.5 | 123.5  | 121.5 | 112.7  | 106.4 | 98.4   | 91.6  |
| 51°   | 91.4  | 98.1  | 106.8 | 115.1 | 119.1 | 120.5  | 118.3 | 109.6  | 103.0 | 95.1   | 88.7  |
| 51.5° | 88.3  | 94.8  | 103.4 | 111.8 | 115.8 | 117.2  | 115.0 | 106.1  | 99.6  | 92.0   | 85.7  |
| 52°   | 85.4  | 91.6  | 99.8  | 108.3 | 112.5 | 114.1  | 111.5 | 103.2  | 96.2  | 88.7   | 83.0  |
| 52.5° | 82.3  | 88.6  | 96.8  | 105.1 | 109.3 | 110.9  | 108.6 | 99.8   | 93.2  | 85.9   | 80.3  |
| 53°   | 79.6  | 85.4  | 93.8  | 101.9 | 106.3 | 107.5  | 105.3 | 96.7   | 89.9  | 82.8   | 77.6  |
| 53.5° | 76.7  | 82.5  | 90.6  | 98.7  | 103.4 | 104.5  | 102.2 | 93.7   | 87.1  | 80.0   | 75.0  |
| 54°   | 73.9  | 79.7  | 87.2  | 95.6  | 99.9  | 101.5  | 99.1  | 90.6   | 83.9  | 77.3   | 72.2  |
| 54.5° | 71.4  | 76.6  | 84.4  | 92.5  | 96.9  | 98.5   | 95.9  | 87.7   | 81.2  | 74.6   | 69.6  |
| 55°   | 68.7  | 73.8  | 81.5  | 89.7  | 94.1  | 95.6   | 93.3  | 84.8   | 78.4  | 71.9   | 67.0  |
| 55.5° | 66.2  | 71.2  | 78.6  | 86.7  | 91.2  | 92.7   | 90.3  | 82.0   | 75.7  | 69.1   | 64.5  |
| 56°   | 63.7  | 68.5  | 76.1  | 83.8  | 88.1  | 89.8   | 87.6  | 79.3   | 72.8  | 66.7   | 62.3  |
| 56.5° | 61.5  | 66.0  | 73.0  | 80.9  | 85.5  | 87.0   | 84.6  | 76.5   | 70.1  | 64.2   | 59.9  |
| 57°   | 59.0  | 63.5  | 70.5  | 77.9  | 82.7  | 84.4   | 81.9  | 73.8   | 67.5  | 61.6   | 57.5  |
| 57.5° | 56.7  | 61.1  | 67.9  | 75.3  | 80.0  | 81.5   | 79.3  | 71.2   | 65.1  | 59.3   | 55.5  |
| 58°   | 54.6  | 58.8  | 65.4  | 72.7  | 77.4  | 78.9   | 76.7  | 68.8   | 62.6  | 57.1   | 53.3  |
| 58.5° | 52.5  | 56.5  | 62.9  | 70.2  | 74.8  | 76.3   | 74.2  | 66.4   | 60.4  | 54.8   | 51.4  |
| 59°   | 50.4  | 54.5  | 60.5  | 67.8  | 72.2  | 73.7   | 71.7  | 64.0   | 57.9  | 52.7   | 49.2  |
| 59.5° | 48.5  | 52.3  | 58.2  | 65.1  | 69.5  | 71.1   | 69.1  | 61.7   | 55.8  | 50.6   | 47.3  |
| 60°   | 46.5  | 50.2  | 56.1  | 62.8  | 67.1  | 68.6   | 66.6  | 59.2   | 53.5  | 48.7   | 45.4  |
| 60.5° | 44.7  | 48.2  | 53.8  | 60.6  | 64.7  | 66.3   | 64.1  | 57.0   | 51.6  | 46.8   | 43.6  |
| 61°   | 42.9  | 46.4  | 51.8  | 58.1  | 62.2  | 64.1   | 61.9  | 54.9   | 49.5  | 44.8   | 41.9  |
| 61.5° | 41.1  | 44.6  | 49.7  | 56.0  | 60.0  | 61.6   | 59.7  | 52.8   | 47.7  | 43.1   | 40.2  |
| 62°   | 39.5  | 42.7  | 47.9  | 53.8  | 57.8  | 59.3   | 57.5  | 50.8   | 45.8  | 41.3   | 38.4  |
| 62.5° | 37.9  | 41.1  | 45.8  | 51.8  | 55.5  | 57.1   | 55.3  | 48.9   | 44.0  | 39.8   | 37.0  |
| 63°   | 36.4  | 39.4  | 44.1  | 49.6  | 53.2  | 55.0   | 53.1  | 46.9   | 42.2  | 38.0   | 35.3  |
| 63.5° | 34.9  | 37.8  | 42.2  | 47.7  | 51.1  | 52.7   | 51.1  | 45.2   | 40.5  | 36.6   | 33.9  |
| 64°   | 33.5  | 36.3  | 40.6  | 45.7  | 49.1  | 50.6   | 49.1  | 43.2   | 38.9  | 35.1   | 32.5  |
| 64.5° | 32.3  | 34.8  | 39.0  | 43.9  | 47.1  | 48.7   | 47.2  | 41.5   | 37.3  | 33.7   | 31.1  |
| 65°   | 30.9  | 33.7  | 37.4  | 42.2  | 45.2  | 46.7   | 45.2  | 39.9   | 35.9  | 32.3   | 29.8  |
| 65.5° | 29.6  | 32.4  | 35.8  | 40.3  | 43.3  | 44.8   | 43.4  | 38.2   | 34.3  | 30.9   | 28.5  |
| 66°   | 28.3  | 31.0  | 34.3  | 38.6  | 41.4  | 42.9   | 41.6  | 36.7   | 33.0  | 29.7   | 27.3  |





TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 67.5° | 24.8 | 27.0  | 30.3 | 33.8  | 36.3 | 37.6   | 36.6 | 32.1   | 29.2 | 26.1   | 23.9 |
| 68°   | 23.7 | 25.9  | 29.1 | 32.5  | 34.6 | 35.9   | 34.9 | 30.8   | 27.9 | 25.0   | 22.8 |
| 68.5° | 22.6 | 24.9  | 27.7 | 31.1  | 33.1 | 34.4   | 33.4 | 29.5   | 26.6 | 24.1   | 21.7 |
| 69°   | 21.6 | 23.8  | 26.4 | 29.6  | 31.6 | 32.9   | 31.9 | 28.2   | 25.5 | 22.9   | 20.8 |
| 69.5° | 20.7 | 22.7  | 25.3 | 28.3  | 30.1 | 31.3   | 30.5 | 26.8   | 24.4 | 21.9   | 19.8 |
| 70°   | 19.7 | 21.6  | 24.1 | 26.9  | 28.7 | 29.9   | 29.1 | 25.6   | 23.3 | 20.9   | 18.9 |
| 70.5° | 18.7 | 20.7  | 23.0 | 25.7  | 27.3 | 28.4   | 27.8 | 24.6   | 22.2 | 20.0   | 18.0 |
| 71°   | 17.7 | 19.7  | 22.0 | 24.5  | 26.0 | 27.1   | 26.5 | 23.4   | 21.2 | 18.9   | 17.1 |
| 71.5° | 16.9 | 18.7  | 21.0 | 23.3  | 24.8 | 25.7   | 25.2 | 22.2   | 20.2 | 18.1   | 16.2 |
| 72°   | 16.1 | 17.8  | 19.9 | 22.1  | 23.5 | 24.5   | 24.0 | 21.3   | 19.2 | 17.2   | 15.3 |
| 72.5° | 15.2 | 16.9  | 18.9 | 21.2  | 22.4 | 23.3   | 22.8 | 20.2   | 18.3 | 16.3   | 14.5 |
| 73°   | 14.4 | 16.1  | 18.0 | 20.0  | 21.3 | 22.1   | 21.6 | 19.2   | 17.4 | 15.5   | 13.7 |
| 73.5° | 13.7 | 15.3  | 17.2 | 19.0  | 20.2 | 21.1   | 20.6 | 18.2   | 16.5 | 14.6   | 13.0 |
| 74°   | 13.0 | 14.5  | 16.2 | 18.0  | 19.1 | 19.9   | 19.5 | 17.3   | 15.7 | 13.8   | 12.3 |
| 74.5° | 12.2 | 13.7  | 15.4 | 17.2  | 18.0 | 18.9   | 18.6 | 16.4   | 14.8 | 13.1   | 11.7 |
| 75°   | 11.5 | 13.0  | 14.6 | 16.2  | 17.1 | 17.9   | 17.6 | 15.5   | 14.0 | 12.4   | 11.1 |
| 75.5° | 10.9 | 12.3  | 13.8 | 15.4  | 16.2 | 16.9   | 16.7 | 14.7   | 13.3 | 11.7   | 10.6 |
| 76°   | 10.3 | 11.6  | 13.1 | 14.5  | 15.3 | 16.0   | 15.7 | 13.8   | 12.5 | 11.1   | 10.1 |
| 76.5° | 9.9  | 10.9  | 12.4 | 13.7  | 14.4 | 15.1   | 14.9 | 13.1   | 11.7 | 10.5   | 9.7  |
| 77°   | 9.5  | 10.3  | 11.6 | 13.0  | 13.7 | 14.2   | 14.0 | 12.4   | 11.1 | 10.0   | 9.2  |
| 77.5° | 9.0  | 9.8   | 11.0 | 12.3  | 12.9 | 13.5   | 13.3 | 11.6   | 10.4 | 9.7    | 8.7  |
| 78°   | 8.5  | 9.4   | 10.3 | 11.5  | 12.1 | 12.7   | 12.5 | 10.9   | 10.0 | 9.1    | 8.1  |
| 78.5° | 8.0  | 8.9   | 9.8  | 10.9  | 11.4 | 11.9   | 11.7 | 10.2   | 9.6  | 8.6    | 7.6  |
| 79°   | 7.5  | 8.4   | 9.4  | 10.3  | 10.7 | 11.2   | 11.0 | 9.8    | 9.1  | 8.1    | 7.1  |
| 79.5° | 7.0  | 8.0   | 9.0  | 9.8   | 10.2 | 10.6   | 10.4 | 9.4    | 8.6  | 7.6    | 6.6  |
| 80°   | 6.5  | 7.5   | 8.5  | 9.4   | 9.8  | 10.0   | 9.8  | 8.9    | 8.1  | 7.1    | 6.1  |
| 80.5° | 6.0  | 7.0   | 8.0  | 8.9   | 9.3  | 9.6    | 9.4  | 8.4    | 7.6  | 6.6    | 5.7  |
| 81°   | 5.6  | 6.5   | 7.5  | 8.4   | 8.8  | 9.1    | 8.9  | 7.9    | 7.1  | 6.1    | 5.3  |
| 81.5° | 5.1  | 6.0   | 7.0  | 7.9   | 8.3  | 8.6    | 8.4  | 7.4    | 6.6  | 5.8    | 4.8  |
| 82°   | 4.7  | 5.6   | 6.5  | 7.4   | 7.8  | 8.1    | 7.9  | 6.9    | 6.1  | 5.3    | 4.3  |
| 82.5° | 4.2  | 5.2   | 6.0  | 6.9   | 7.3  | 7.6    | 7.4  | 6.4    | 5.7  | 4.8    | 3.9  |
| 83°   | 3.8  | 4.7   | 5.6  | 6.4   | 6.8  | 7.1    | 6.9  | 5.9    | 5.3  | 4.4    | 3.5  |
| 83.5° | 3.4  | 4.2   | 5.2  | 5.9   | 6.3  | 6.6    | 6.4  | 5.6    | 4.8  | 3.9    | 3.1  |
| 84°   | 3.0  | 3.8   | 4.7  | 5.6   | 5.9  | 6.1    | 5.9  | 5.1    | 4.4  | 3.5    | 2.7  |
| 84.5° | 2.5  | 3.4   | 4.3  | 5.1   | 5.4  | 5.7    | 5.6  | 4.6    | 3.9  | 3.1    | 2.2  |
| 85°   | 2.1  | 3.0   | 3.8  | 4.6   | 5.0  | 5.2    | 5.1  | 4.2    | 3.5  | 2.7    | 2.0  |
| 85.5° | 1.8  | 2.6   | 3.4  | 4.2   | 4.5  | 4.8    | 4.7  | 3.8    | 3.1  | 2.3    | 1.6  |
| 86°   | 1.4  | 2.1   | 3.0  | 3.7   | 4.1  | 4.3    | 4.2  | 3.3    | 2.7  | 2.0    | 1.2  |
| 86.5° | 1.0  | 1.8   | 2.6  | 3.3   | 3.6  | 3.9    | 3.8  | 2.9    | 2.3  | 1.6    | 0.8  |
| 87°   | 0.7  | 1.4   | 2.2  | 2.9   | 3.2  | 3.5    | 3.3  | 2.5    | 2.0  | 1.2    | 0.5  |
| 87.5° | 0.4  | 1.0   | 1.8  | 2.5   | 2.8  | 3.0    | 2.9  | 2.1    | 1.6  | 0.9    | 0.2  |
| 88°   | 0.1  | 0.7   | 1.4  | 2.1   | 2.4  | 2.6    | 2.5  | 1.8    | 1.2  | 0.5    | 0.0  |
| 88.5° | 0.0  | 0.4   | 1.1  | 1.8   | 2.0  | 2.2    | 2.1  | 1.4    | 0.9  | 0.2    | 0.0  |



TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.0   | 0.1 | 0.7   | 0.9 | 1.2    | 1.1  | 0.4    | 0.1  | 0.0    | 0.0  |



TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 332.4  | 332.4 | 332.4  | 332.4 | 332.4  | 332.4 |
| 0.5°  | 331.4  | 331.0 | 331.3  | 332.0 | 332.5  | 332.7 |
| 1°    | 331.1  | 330.4 | 331.1  | 332.4 | 331.6  | 332.3 |
| 1.5°  | 331.1  | 330.9 | 330.1  | 331.5 | 332.0  | 331.7 |
| 2°    | 329.7  | 329.9 | 329.9  | 330.5 | 330.7  | 332.0 |
| 2.5°  | 329.6  | 330.0 | 329.4  | 330.3 | 330.9  | 332.0 |
| 3°    | 328.6  | 328.2 | 328.0  | 329.7 | 330.1  | 331.0 |
| 3.5°  | 328.8  | 328.1 | 327.4  | 328.8 | 329.1  | 330.8 |
| 4°    | 327.6  | 326.8 | 326.5  | 327.5 | 328.9  | 330.5 |
| 4.5°  | 326.2  | 325.8 | 325.1  | 326.9 | 328.6  | 329.1 |
| 5°    | 326.7  | 324.9 | 324.6  | 325.9 | 327.7  | 329.0 |
| 5.5°  | 324.9  | 324.4 | 324.0  | 325.4 | 326.5  | 328.2 |
| 6°    | 323.9  | 323.6 | 322.4  | 324.3 | 325.7  | 327.0 |
| 6.5°  | 323.4  | 322.3 | 322.0  | 323.0 | 324.2  | 326.9 |
| 7°    | 322.4  | 320.6 | 321.3  | 321.9 | 324.3  | 325.7 |
| 7.5°  | 321.1  | 320.5 | 319.1  | 321.3 | 322.3  | 325.7 |
| 8°    | 319.7  | 319.2 | 318.9  | 319.0 | 321.4  | 324.1 |
| 8.5°  | 318.7  | 318.2 | 317.1  | 318.7 | 321.4  | 323.4 |
| 9°    | 317.7  | 316.5 | 315.3  | 317.6 | 319.4  | 322.1 |
| 9.5°  | 316.1  | 314.7 | 314.0  | 316.3 | 319.0  | 321.4 |
| 10°   | 314.6  | 313.3 | 313.3  | 314.5 | 316.4  | 319.9 |
| 10.5° | 313.4  | 312.0 | 312.2  | 313.2 | 315.4  | 319.0 |
| 11°   | 312.6  | 310.5 | 309.5  | 311.6 | 314.1  | 317.6 |
| 11.5° | 311.2  | 309.0 | 308.3  | 310.2 | 312.9  | 316.5 |
| 12°   | 309.6  | 307.6 | 307.1  | 307.9 | 311.3  | 315.0 |
| 12.5° | 307.9  | 306.4 | 305.7  | 306.5 | 309.7  | 314.0 |
| 13°   | 306.2  | 304.2 | 303.3  | 305.2 | 308.9  | 312.8 |
| 13.5° | 304.6  | 302.5 | 301.5  | 302.6 | 307.1  | 311.0 |
| 14°   | 302.3  | 300.5 | 299.2  | 302.3 | 305.8  | 309.7 |
| 14.5° | 301.4  | 299.1 | 298.0  | 299.5 | 303.7  | 307.9 |
| 15°   | 299.3  | 298.0 | 295.6  | 297.7 | 302.3  | 306.7 |
| 15.5° | 297.8  | 294.9 | 293.9  | 295.8 | 300.6  | 304.3 |
| 16°   | 295.2  | 293.3 | 292.0  | 294.0 | 298.7  | 303.2 |
| 16.5° | 293.6  | 291.2 | 289.8  | 291.9 | 296.9  | 301.2 |
| 17°   | 291.7  | 288.9 | 287.6  | 290.2 | 294.2  | 300.2 |
| 17.5° | 289.6  | 287.4 | 285.3  | 287.7 | 292.4  | 297.8 |
| 18°   | 287.7  | 285.2 | 283.1  | 285.7 | 290.2  | 296.5 |
| 18.5° | 285.3  | 282.9 | 281.5  | 283.3 | 289.0  | 294.6 |
| 19°   | 283.0  | 281.0 | 279.0  | 281.3 | 285.9  | 292.1 |
| 19.5° | 281.8  | 278.6 | 276.8  | 279.1 | 284.0  | 290.2 |
| 20°   | 278.6  | 276.2 | 274.3  | 276.1 | 282.4  | 288.5 |
| 20.5° | 276.1  | 274.4 | 272.5  | 274.4 | 280.0  | 285.9 |
| 21°   | 274.5  | 271.0 | 269.3  | 271.6 | 277.8  | 283.7 |

TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 267.3  | 263.4 | 262.2  | 263.9 | 270.3  | 276.9 |
| 23°   | 264.1  | 261.5 | 259.5  | 261.9 | 268.3  | 274.9 |
| 23.5° | 262.0  | 258.7 | 256.7  | 259.2 | 265.2  | 272.2 |
| 24°   | 259.0  | 256.0 | 254.3  | 256.4 | 263.2  | 270.2 |
| 24.5° | 256.0  | 252.9 | 251.7  | 253.5 | 260.5  | 267.1 |
| 25°   | 253.7  | 250.1 | 248.9  | 250.9 | 256.9  | 264.7 |
| 25.5° | 251.1  | 247.5 | 246.2  | 247.7 | 254.9  | 261.9 |
| 26°   | 248.3  | 245.4 | 243.1  | 245.3 | 252.3  | 259.7 |
| 26.5° | 245.2  | 242.3 | 240.0  | 242.4 | 249.3  | 256.6 |
| 27°   | 242.8  | 239.4 | 237.7  | 239.8 | 246.8  | 253.9 |
| 27.5° | 239.9  | 236.4 | 234.5  | 236.5 | 243.8  | 251.7 |
| 28°   | 236.9  | 233.7 | 231.6  | 233.6 | 241.1  | 248.0 |
| 28.5° | 233.7  | 230.9 | 228.7  | 230.6 | 237.9  | 245.9 |
| 29°   | 231.2  | 227.6 | 225.3  | 228.2 | 235.3  | 243.0 |
| 29.5° | 228.2  | 224.4 | 222.8  | 224.6 | 232.8  | 239.8 |
| 30°   | 225.5  | 221.8 | 219.9  | 221.5 | 228.9  | 237.5 |
| 30.5° | 222.2  | 218.0 | 216.2  | 218.8 | 226.0  | 234.2 |
| 31°   | 219.3  | 215.7 | 213.0  | 215.7 | 223.2  | 231.6 |
| 31.5° | 216.4  | 211.8 | 209.7  | 211.7 | 220.5  | 228.9 |
| 32°   | 212.7  | 208.5 | 206.0  | 208.6 | 217.4  | 225.2 |
| 32.5° | 209.6  | 205.5 | 202.5  | 205.1 | 214.0  | 222.5 |
| 33°   | 206.1  | 201.2 | 199.0  | 202.0 | 210.3  | 219.4 |
| 33.5° | 202.6  | 198.2 | 195.6  | 198.5 | 207.5  | 216.4 |
| 34°   | 199.3  | 194.5 | 191.5  | 194.6 | 204.3  | 213.5 |
| 34.5° | 195.7  | 190.9 | 188.2  | 190.9 | 200.2  | 209.3 |
| 35°   | 191.5  | 187.7 | 184.7  | 187.0 | 196.9  | 206.2 |
| 35.5° | 188.1  | 183.6 | 181.2  | 183.7 | 193.4  | 202.2 |
| 36°   | 185.0  | 179.9 | 177.5  | 180.5 | 189.8  | 199.4 |
| 36.5° | 181.0  | 176.2 | 173.5  | 176.6 | 185.7  | 195.9 |
| 37°   | 177.6  | 173.0 | 170.4  | 172.8 | 181.9  | 192.2 |
| 37.5° | 173.6  | 169.2 | 166.7  | 169.3 | 178.8  | 188.6 |
| 38°   | 170.0  | 165.5 | 162.8  | 165.7 | 175.2  | 184.9 |
| 38.5° | 166.7  | 162.3 | 159.7  | 161.9 | 171.2  | 181.3 |
| 39°   | 162.5  | 158.4 | 156.3  | 158.2 | 168.2  | 177.3 |
| 39.5° | 159.1  | 155.0 | 153.1  | 154.7 | 164.0  | 173.8 |
| 40°   | 155.3  | 151.7 | 149.4  | 151.6 | 160.6  | 169.5 |
| 40.5° | 152.0  | 148.3 | 146.1  | 147.7 | 157.0  | 165.8 |
| 41°   | 148.5  | 144.9 | 142.6  | 144.5 | 153.3  | 162.2 |
| 41.5° | 144.7  | 141.3 | 139.1  | 141.2 | 149.3  | 158.0 |
| 42°   | 141.2  | 138.1 | 136.1  | 137.8 | 145.9  | 154.8 |
| 42.5° | 137.9  | 134.5 | 132.7  | 134.3 | 142.0  | 150.8 |
| 43°   | 134.6  | 131.4 | 129.6  | 130.9 | 138.7  | 146.8 |
| 43.5° | 131.0  | 128.3 | 126.4  | 127.7 | 135.3  | 143.1 |



TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 121.1  | 118.9 | 116.9  | 118.0 | 125.0  | 131.8 |
| 45.5° | 117.7  | 115.5 | 114.0  | 115.1 | 121.9  | 128.7 |
| 46°   | 114.5  | 112.3 | 110.6  | 111.9 | 118.1  | 124.8 |
| 46.5° | 111.3  | 109.4 | 107.9  | 108.7 | 115.1  | 121.3 |
| 47°   | 108.1  | 106.4 | 104.9  | 105.7 | 111.8  | 117.8 |
| 47.5° | 104.9  | 103.4 | 101.9  | 103.1 | 108.3  | 114.3 |
| 48°   | 101.9  | 100.4 | 99.1   | 99.8  | 105.1  | 110.8 |
| 48.5° | 98.9   | 97.6  | 96.1   | 97.0  | 102.3  | 107.3 |
| 49°   | 95.9   | 94.5  | 93.5   | 94.2  | 99.1   | 104.1 |
| 49.5° | 93.0   | 91.9  | 90.8   | 91.3  | 96.0   | 100.8 |
| 50°   | 90.2   | 89.1  | 87.9   | 88.6  | 93.3   | 97.7  |
| 50.5° | 87.3   | 86.4  | 85.1   | 85.8  | 90.2   | 94.5  |
| 51°   | 84.4   | 83.7  | 82.7   | 83.3  | 87.4   | 91.4  |
| 51.5° | 81.9   | 81.1  | 80.1   | 80.4  | 84.6   | 88.3  |
| 52°   | 79.3   | 78.6  | 77.7   | 78.1  | 81.8   | 85.4  |
| 52.5° | 76.6   | 76.1  | 75.0   | 75.5  | 79.1   | 82.3  |
| 53°   | 73.9   | 73.4  | 72.6   | 72.9  | 76.3   | 79.6  |
| 53.5° | 71.3   | 71.1  | 70.3   | 70.7  | 73.9   | 76.7  |
| 54°   | 69.0   | 68.6  | 68.0   | 68.1  | 71.0   | 73.9  |
| 54.5° | 66.5   | 66.4  | 65.5   | 65.8  | 68.6   | 71.4  |
| 55°   | 64.3   | 64.1  | 63.2   | 63.3  | 66.4   | 68.7  |
| 55.5° | 62.0   | 61.7  | 61.0   | 61.2  | 64.1   | 66.2  |
| 56°   | 59.5   | 59.5  | 58.7   | 59.0  | 61.5   | 63.7  |
| 56.5° | 57.4   | 57.3  | 56.7   | 56.7  | 59.3   | 61.5  |
| 57°   | 55.2   | 55.2  | 54.5   | 54.6  | 57.0   | 59.0  |
| 57.5° | 53.1   | 53.1  | 52.5   | 52.6  | 54.8   | 56.7  |
| 58°   | 51.2   | 51.0  | 50.5   | 50.4  | 52.7   | 54.6  |
| 58.5° | 49.1   | 49.0  | 48.5   | 48.5  | 50.8   | 52.5  |
| 59°   | 47.2   | 47.1  | 46.5   | 46.5  | 48.7   | 50.4  |
| 59.5° | 45.1   | 45.2  | 44.7   | 44.7  | 46.7   | 48.5  |
| 60°   | 43.4   | 43.4  | 42.8   | 42.7  | 44.9   | 46.5  |
| 60.5° | 41.7   | 41.6  | 40.9   | 41.0  | 43.1   | 44.7  |
| 61°   | 40.0   | 39.7  | 39.1   | 39.3  | 41.3   | 42.9  |
| 61.5° | 38.3   | 38.1  | 37.5   | 37.5  | 39.6   | 41.1  |
| 62°   | 36.7   | 36.5  | 35.8   | 35.9  | 37.9   | 39.5  |
| 62.5° | 35.1   | 34.8  | 34.2   | 34.3  | 36.4   | 37.9  |
| 63°   | 33.4   | 33.7  | 32.8   | 32.9  | 34.8   | 36.4  |
| 63.5° | 32.1   | 32.2  | 31.3   | 31.4  | 33.7   | 34.9  |
| 64°   | 30.7   | 30.6  | 29.8   | 30.0  | 32.3   | 33.5  |
| 64.5° | 29.3   | 29.1  | 28.4   | 28.6  | 30.8   | 32.3  |
| 65°   | 28.0   | 27.5  | 26.9   | 27.1  | 29.4   | 30.9  |
| 65.5° | 26.7   | 26.2  | 25.6   | 25.9  | 28.0   | 29.6  |
| 66°   | 25.4   | 25.0  | 24.5   | 24.7  | 26.6   | 28.3  |



TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 22.1   | 21.6 | 21.1   | 21.4 | 23.2   | 24.8 |
| 68°   | 21.2   | 20.6 | 20.1   | 20.4 | 22.1   | 23.7 |
| 68.5° | 20.1   | 19.6 | 19.1   | 19.3 | 21.2   | 22.6 |
| 69°   | 19.2   | 18.6 | 18.1   | 18.3 | 20.2   | 21.6 |
| 69.5° | 18.2   | 17.7 | 17.3   | 17.6 | 19.2   | 20.7 |
| 70°   | 17.4   | 17.0 | 16.4   | 16.6 | 18.1   | 19.7 |
| 70.5° | 16.5   | 16.0 | 15.6   | 15.8 | 17.4   | 18.7 |
| 71°   | 15.6   | 15.2 | 14.7   | 14.9 | 16.5   | 17.7 |
| 71.5° | 14.8   | 14.4 | 13.9   | 14.1 | 15.6   | 16.9 |
| 72°   | 14.0   | 13.7 | 13.2   | 13.4 | 14.8   | 16.1 |
| 72.5° | 13.3   | 13.0 | 12.5   | 12.6 | 14.0   | 15.2 |
| 73°   | 12.6   | 12.3 | 11.9   | 11.9 | 13.3   | 14.4 |
| 73.5° | 12.0   | 11.7 | 11.3   | 11.4 | 12.5   | 13.7 |
| 74°   | 11.4   | 11.1 | 10.7   | 10.9 | 11.8   | 13.0 |
| 74.5° | 10.9   | 10.6 | 10.2   | 10.3 | 11.2   | 12.2 |
| 75°   | 10.3   | 10.0 | 9.7    | 9.8  | 10.7   | 11.5 |
| 75.5° | 9.8    | 9.5  | 9.2    | 9.3  | 10.2   | 10.9 |
| 76°   | 9.4    | 9.0  | 8.6    | 8.8  | 9.7    | 10.3 |
| 76.5° | 8.8    | 8.4  | 8.1    | 8.2  | 9.2    | 9.9  |
| 77°   | 8.3    | 7.9  | 7.6    | 7.7  | 8.7    | 9.5  |
| 77.5° | 7.8    | 7.4  | 7.1    | 7.2  | 8.2    | 9.0  |
| 78°   | 7.3    | 6.9  | 6.6    | 6.7  | 7.7    | 8.5  |
| 78.5° | 6.7    | 6.4  | 6.1    | 6.2  | 7.2    | 8.0  |
| 79°   | 6.2    | 5.9  | 5.7    | 5.8  | 6.7    | 7.5  |
| 79.5° | 5.8    | 5.5  | 5.2    | 5.3  | 6.2    | 7.0  |
| 80°   | 5.4    | 5.1  | 4.7    | 4.9  | 5.8    | 6.5  |
| 80.5° | 4.9    | 4.6  | 4.3    | 4.4  | 5.3    | 6.0  |
| 81°   | 4.4    | 4.1  | 3.8    | 4.0  | 4.9    | 5.6  |
| 81.5° | 4.0    | 3.7  | 3.4    | 3.5  | 4.4    | 5.1  |
| 82°   | 3.6    | 3.3  | 3.0    | 3.1  | 4.0    | 4.7  |
| 82.5° | 3.1    | 2.9  | 2.6    | 2.7  | 3.5    | 4.2  |
| 83°   | 2.7    | 2.4  | 2.2    | 2.3  | 3.1    | 3.8  |
| 83.5° | 2.3    | 2.0  | 1.9    | 2.0  | 2.7    | 3.4  |
| 84°   | 2.0    | 1.7  | 1.5    | 1.6  | 2.3    | 3.0  |
| 84.5° | 1.6    | 1.4  | 1.1    | 1.2  | 2.0    | 2.5  |
| 85°   | 1.3    | 1.0  | 0.8    | 0.8  | 1.6    | 2.1  |
| 85.5° | 0.9    | 0.6  | 0.4    | 0.5  | 1.2    | 1.8  |
| 86°   | 0.6    | 0.3  | 0.2    | 0.2  | 0.8    | 1.4  |
| 86.5° | 0.3    | 0.1  | 0.0    | 0.1  | 0.5    | 1.0  |
| 87°   | 0.1    | 0.0  | 0.0    | 0.0  | 0.2    | 0.7  |
| 87.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.1    | 0.4  |
| 88°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.1  |
| 88.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |



TEST NUMBER: P639464

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -2700K

**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|------|--------|------|--------|------|
| 90° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 280.9 | 289.0 | 296.0 | 301.9 | 304.4 | 305.6 | 304.0 | 298.5 | 293.4 | 286.2 | 278.6 |
| 22°   | 279.0 | 286.2 | 293.9 | 300.6 | 302.9 | 303.6 | 302.2 | 296.7 | 291.6 | 284.2 | 275.5 |



|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 139.4 | 149.6 | 159.6 | 166.9 | 169.8 | 170.2 | 168.4 | 161.1 | 154.4 | 145.2 | 135.3 |
| 44.5° | 135.7 | 145.7 | 155.4 | 163.1 | 165.9 | 166.2 | 164.6 | 157.0 | 150.7 | 141.5 | 131.7 |



|       |      |      |      |      |      |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 66.5° | 27.1 | 29.6 | 33.1 | 37.1 | 39.7 | 41.1 | 39.8 | 35.0 | 31.6 | 28.5 | 26.1 |
| 67°   | 25.9 | 28.3 | 31.7 | 35.4 | 37.8 | 39.4 | 38.1 | 33.5 | 30.3 | 27.3 | 25.0 |



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89°   | 0.0 | 0.1 | 0.7 | 1.4 | 1.7 | 1.9 | 1.8 | 1.1 | 0.5 | 0.1 | 0.0 |
| 89.5° | 0.0 | 0.0 | 0.4 | 1.0 | 1.3 | 1.5 | 1.4 | 0.7 | 0.2 | 0.0 | 0.0 |



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Scaled Data Report





|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 272.0 | 268.9 | 267.6 | 269.5 | 275.4 | 280.9 |
| 22°   | 269.2 | 265.8 | 265.1 | 267.0 | 273.3 | 279.0 |



|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 127.6 | 124.9 | 123.1 | 124.4 | 131.5 | 139.4 |
| 44.5° | 124.2 | 121.8 | 120.0 | 121.2 | 128.2 | 135.7 |

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Peachtree City, GA 30269

Scaled Data Report



|       |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|
| 66.5° | 24.3 | 23.8 | 23.2 | 23.6 | 25.4 | 27.1 |
| 67°   | 23.2 | 22.7 | 22.1 | 22.4 | 24.3 | 25.9 |

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|       |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|
| 89°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 89.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



(END OF REPORT)