

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: P639499

Luminaire Tested: RL56LS9FSD2W1EWH -900LM -2700K

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P639499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2206549B001)
Test Lab:
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RL56LS9FSD2W1EWH -900LM -2700K
Description: 5/6IN RETROFIT, SELECTABLE LUMEN AND CCT, MATTE WHITE BAFFLE
Light Source: (1) SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

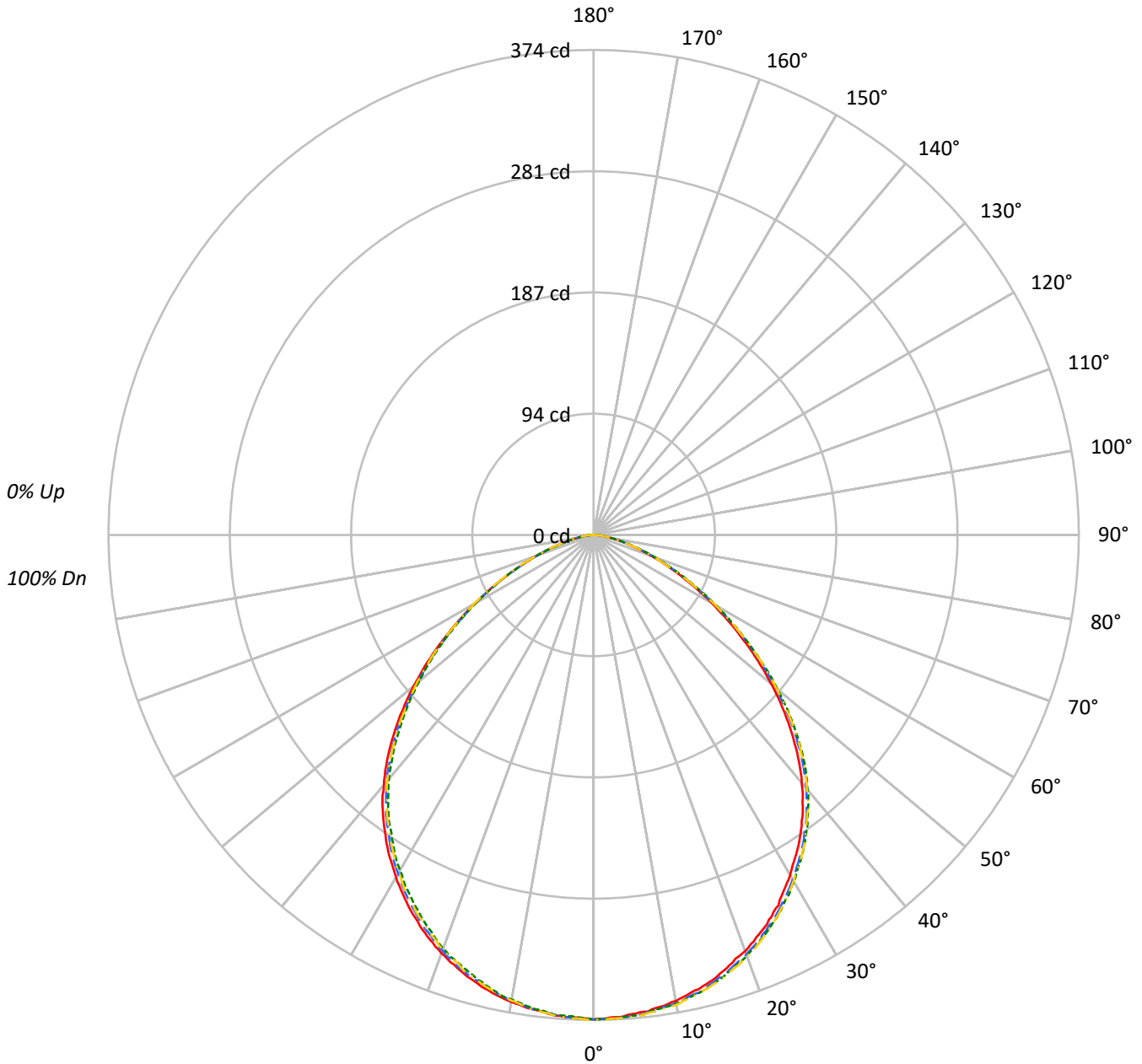
Lumens per Lamp: N/A
Luminaire Lumens: 865.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.3
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8.7
Input Voltage (V): NR
Input Current (A_{in}): 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: P639499
CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

Luminous Intensity Polar Plot





TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

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 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 97 | 100 | 97 | 94 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 74 | | | | | | | | |
| 3 | 93 | 84 | 76 | 70 | 91 | 82 | 75 | 70 | 79 | 73 | 69 | 76 | 72 | 67 | 74 | 70 | 66 | 64 | | | | | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 73 | 66 | 60 | 71 | 65 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 56 | | | | | | | | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 6 | 73 | 61 | 53 | 47 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 45 | 43 | | | | | | | | |
| 7 | 68 | 55 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 41 | 50 | 45 | 40 | 39 | | | | | | | | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 46 | 41 | 36 | 35 | | | | | | | | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |
| 10 | 56 | 43 | 36 | 31 | 55 | 43 | 35 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 20486 | 20486 | 20486 | 20486 |
| 5° | 20394 | 20477 | 20443 | 20421 |
| 10° | 20318 | 20424 | 20363 | 20257 |
| 15° | 20159 | 20341 | 20210 | 20040 |
| 20° | 19917 | 20162 | 20022 | 19806 |
| 25° | 19646 | 19894 | 19701 | 19350 |
| 30° | 19180 | 19560 | 19294 | 18902 |
| 35° | 18631 | 19053 | 18759 | 18330 |
| 40° | 17862 | 18370 | 18005 | 17576 |
| 45° | 16738 | 17296 | 16924 | 16405 |
| 50° | 15223 | 15778 | 15428 | 14985 |
| 55° | 13448 | 13925 | 13620 | 13352 |
| 60° | 11523 | 11984 | 11611 | 11457 |
| 65° | 9534 | 9910 | 9521 | 9508 |
| 70° | 7629 | 7998 | 7485 | 7437 |
| 75° | 5761 | 6142 | 5528 | 5316 |
| 80° | 4293 | 4546 | 3915 | 3725 |
| 85° | 3774 | 3963 | 3145 | 2830 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°

Vertical Angle: 45°

Luminance: 17312 cd/sqm



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.3 | 4.1 |
| 10°-20° | 100.4 | 11.6 |
| 20°-30° | 149.7 | 17.3 |
| 30°-40° | 174.7 | 20.2 |
| 40°-50° | 167.3 | 19.3 |
| 50°-60° | 127.5 | 14.7 |
| 60°-70° | 74.3 | 8.6 |
| 70°-80° | 29.6 | 3.4 |
| 80°-90° | 6.2 | 0.7 |
| 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° | 285.4 | 33.0 |
| 0°-40° | 460.0 | 53.2 |
| 0°-60° | 754.9 | 87.3 |
| 0°-90° | 865.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 865.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 374 | 374 | 374 | 374 | 374 | |
| 5° | 371 | 372 | 372 | 371 | 371 | 35 |
| 15° | 355 | 358 | 356 | 353 | 355 | 100 |
| 25° | 325 | 329 | 326 | 320 | 325 | 149 |
| 35° | 278 | 285 | 280 | 274 | 278 | 174 |
| 45° | 216 | 223 | 218 | 212 | 216 | 166 |
| 55° | 141 | 146 | 142 | 140 | 141 | 126 |
| 65° | 74 | 76 | 73 | 73 | 74 | 74 |
| 75° | 27 | 29 | 26 | 25 | 27 | 30 |
| 85° | 6 | 6 | 5 | 4 | 6 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 |
| 0.5° | 373.2 | 373.7 | 373.7 | 373.7 | 373.5 | 373.7 | 373.9 | 373.4 | 373.2 | 373.6 | 373.6 |
| 1° | 373.1 | 373.6 | 373.4 | 373.5 | 373.5 | 373.6 | 374.3 | 373.9 | 372.9 | 373.6 | 373.3 |
| 1.5° | 373.1 | 373.5 | 373.2 | 373.7 | 373.4 | 373.5 | 373.9 | 374.1 | 372.5 | 373.4 | 373.1 |
| 2° | 372.4 | 373.3 | 373.0 | 373.7 | 373.3 | 372.8 | 373.2 | 373.9 | 372.5 | 373.5 | 373.4 |
| 2.5° | 372.3 | 373.7 | 373.1 | 373.4 | 373.2 | 373.2 | 373.2 | 373.2 | 372.3 | 373.2 | 373.1 |
| 3° | 372.4 | 373.3 | 373.0 | 373.8 | 372.8 | 373.4 | 373.2 | 373.2 | 372.3 | 372.8 | 372.4 |
| 3.5° | 372.1 | 372.9 | 372.6 | 373.8 | 372.3 | 373.4 | 373.2 | 373.4 | 372.3 | 373.0 | 372.6 |
| 4° | 371.1 | 372.5 | 372.5 | 373.4 | 372.3 | 373.5 | 373.0 | 372.3 | 371.8 | 373.5 | 371.6 |
| 4.5° | 370.7 | 372.1 | 372.1 | 372.5 | 372.1 | 373.3 | 372.9 | 372.0 | 372.1 | 372.9 | 371.6 |
| 5° | 370.6 | 372.2 | 371.7 | 372.4 | 372.1 | 372.8 | 372.5 | 372.0 | 371.5 | 371.7 | 370.7 |
| 5.5° | 369.8 | 372.1 | 371.7 | 372.1 | 372.1 | 371.8 | 372.4 | 371.8 | 370.9 | 371.5 | 370.2 |
| 6° | 369.8 | 371.4 | 371.4 | 371.6 | 371.8 | 371.6 | 371.8 | 371.2 | 370.0 | 371.4 | 370.0 |
| 6.5° | 369.8 | 370.3 | 370.2 | 371.3 | 370.6 | 370.9 | 371.2 | 370.5 | 369.5 | 370.2 | 369.8 |
| 7° | 368.7 | 370.0 | 370.0 | 370.7 | 369.6 | 370.6 | 370.8 | 370.2 | 369.1 | 370.0 | 369.2 |
| 7.5° | 368.0 | 369.1 | 369.4 | 370.4 | 369.1 | 369.6 | 370.7 | 369.9 | 368.5 | 369.4 | 368.7 |
| 8° | 367.5 | 368.6 | 368.7 | 369.5 | 369.1 | 369.0 | 369.8 | 369.1 | 368.4 | 368.4 | 367.6 |
| 8.5° | 367.2 | 368.0 | 368.0 | 369.4 | 368.3 | 369.0 | 369.2 | 368.9 | 367.7 | 367.9 | 367.0 |
| 9° | 366.3 | 367.9 | 367.7 | 368.2 | 368.2 | 368.4 | 368.6 | 368.2 | 366.8 | 367.2 | 366.4 |
| 9.5° | 365.2 | 367.1 | 367.1 | 368.0 | 367.6 | 367.5 | 368.5 | 367.7 | 366.2 | 367.1 | 365.7 |
| 10° | 365.0 | 366.1 | 366.6 | 367.3 | 366.9 | 367.0 | 367.9 | 366.7 | 365.8 | 366.0 | 365.3 |
| 10.5° | 363.8 | 365.8 | 365.6 | 366.3 | 366.8 | 366.7 | 367.1 | 365.9 | 365.2 | 365.7 | 364.0 |
| 11° | 363.0 | 364.6 | 365.0 | 366.1 | 365.3 | 365.2 | 365.7 | 365.2 | 364.3 | 363.9 | 362.9 |
| 11.5° | 362.2 | 363.6 | 363.8 | 364.6 | 364.6 | 364.5 | 365.2 | 364.0 | 363.4 | 363.7 | 362.2 |
| 12° | 360.9 | 363.0 | 363.0 | 363.8 | 363.9 | 364.5 | 364.7 | 363.3 | 362.5 | 362.5 | 361.4 |
| 12.5° | 359.8 | 362.0 | 362.3 | 363.1 | 363.0 | 363.9 | 363.3 | 362.7 | 361.7 | 361.9 | 360.3 |
| 13° | 359.6 | 361.0 | 362.3 | 362.0 | 362.5 | 362.8 | 362.6 | 361.4 | 360.5 | 361.4 | 359.4 |
| 13.5° | 358.2 | 359.5 | 360.7 | 361.4 | 361.4 | 361.8 | 361.4 | 360.9 | 359.8 | 359.9 | 357.9 |
| 14° | 357.3 | 358.6 | 359.3 | 360.0 | 360.5 | 360.7 | 360.6 | 359.8 | 358.8 | 358.2 | 357.0 |
| 14.5° | 356.1 | 358.2 | 358.2 | 359.4 | 359.1 | 360.3 | 359.7 | 358.8 | 357.3 | 357.5 | 355.6 |
| 15° | 355.2 | 357.0 | 357.1 | 358.5 | 358.4 | 358.6 | 358.5 | 357.5 | 356.1 | 356.1 | 354.9 |
| 15.5° | 353.9 | 355.0 | 355.6 | 357.5 | 356.9 | 357.3 | 357.7 | 356.3 | 355.0 | 355.0 | 353.8 |
| 16° | 352.3 | 353.9 | 354.5 | 355.9 | 356.0 | 356.3 | 356.6 | 355.5 | 354.1 | 353.4 | 352.5 |
| 16.5° | 350.9 | 353.1 | 353.4 | 354.5 | 354.7 | 354.7 | 355.3 | 354.2 | 352.7 | 352.4 | 350.9 |
| 17° | 349.7 | 351.2 | 352.5 | 353.6 | 352.9 | 354.0 | 353.5 | 352.5 | 351.5 | 351.0 | 350.2 |
| 17.5° | 348.0 | 350.7 | 350.9 | 351.7 | 352.2 | 352.6 | 352.5 | 351.5 | 350.1 | 349.5 | 349.0 |
| 18° | 346.8 | 349.1 | 349.5 | 350.2 | 350.8 | 350.9 | 351.1 | 351.1 | 348.4 | 348.6 | 347.2 |
| 18.5° | 344.6 | 346.9 | 348.1 | 350.0 | 349.1 | 350.0 | 350.2 | 349.0 | 347.7 | 347.4 | 345.6 |
| 19° | 343.8 | 345.8 | 346.6 | 348.2 | 348.2 | 348.8 | 348.8 | 347.5 | 345.9 | 345.4 | 344.4 |
| 19.5° | 342.6 | 344.5 | 345.6 | 346.1 | 346.8 | 347.0 | 347.1 | 346.2 | 344.4 | 343.8 | 342.9 |
| 20° | 341.4 | 343.7 | 344.1 | 345.0 | 345.6 | 345.6 | 345.6 | 344.3 | 343.2 | 343.0 | 341.1 |
| 20.5° | 340.0 | 341.8 | 342.7 | 343.6 | 343.6 | 344.1 | 344.6 | 342.8 | 341.5 | 340.8 | 339.9 |
| 21° | 338.0 | 340.6 | 341.1 | 341.9 | 342.5 | 342.6 | 343.4 | 341.6 | 340.2 | 339.5 | 337.7 |



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 333.3 | 335.6 | 336.1 | 337.9 | 337.3 | 338.1 | 338.1 | 336.6 | 335.1 | 334.4 | 332.3 |
| 23° | 331.7 | 333.7 | 334.2 | 335.6 | 336.3 | 336.8 | 336.1 | 335.0 | 333.2 | 332.2 | 330.9 |
| 23.5° | 330.1 | 332.0 | 333.0 | 334.0 | 334.1 | 335.1 | 334.4 | 333.3 | 331.8 | 330.4 | 329.5 |
| 24° | 328.5 | 330.1 | 330.8 | 331.8 | 332.6 | 333.3 | 332.7 | 331.7 | 329.8 | 329.0 | 327.4 |
| 24.5° | 325.9 | 328.1 | 329.4 | 330.3 | 330.6 | 331.5 | 331.0 | 329.6 | 327.5 | 327.5 | 325.2 |
| 25° | 324.8 | 326.3 | 328.1 | 328.5 | 328.9 | 329.3 | 329.1 | 327.8 | 325.7 | 325.2 | 323.1 |
| 25.5° | 322.2 | 324.5 | 325.8 | 326.9 | 327.3 | 327.2 | 327.2 | 325.7 | 324.0 | 322.7 | 321.0 |
| 26° | 320.4 | 322.4 | 323.6 | 324.9 | 325.4 | 325.4 | 325.3 | 323.5 | 322.0 | 321.0 | 319.4 |
| 26.5° | 319.2 | 320.3 | 321.8 | 322.7 | 323.4 | 323.9 | 323.1 | 321.5 | 319.9 | 319.2 | 317.1 |
| 27° | 315.9 | 318.7 | 319.5 | 321.0 | 321.2 | 321.7 | 321.0 | 320.1 | 317.7 | 316.9 | 315.0 |
| 27.5° | 313.8 | 316.9 | 317.4 | 318.8 | 318.8 | 319.4 | 319.3 | 317.8 | 315.7 | 314.9 | 313.0 |
| 28° | 311.6 | 314.2 | 315.3 | 316.8 | 316.9 | 317.2 | 316.7 | 315.5 | 313.5 | 313.0 | 310.9 |
| 28.5° | 309.4 | 311.9 | 313.5 | 314.5 | 315.6 | 314.9 | 314.7 | 313.3 | 311.5 | 310.6 | 308.6 |
| 29° | 307.2 | 309.7 | 311.3 | 312.1 | 313.2 | 312.9 | 312.6 | 311.2 | 309.0 | 308.4 | 306.4 |
| 29.5° | 305.2 | 307.6 | 309.0 | 310.3 | 310.6 | 310.6 | 310.3 | 309.0 | 307.2 | 305.7 | 304.1 |
| 30° | 303.0 | 305.8 | 306.8 | 308.1 | 309.0 | 308.5 | 308.4 | 306.7 | 304.8 | 303.3 | 301.4 |
| 30.5° | 300.3 | 303.5 | 304.7 | 305.8 | 306.5 | 306.3 | 305.7 | 304.4 | 302.4 | 301.4 | 299.6 |
| 31° | 297.6 | 300.7 | 302.3 | 303.5 | 303.7 | 304.0 | 303.5 | 302.1 | 300.1 | 299.1 | 297.1 |
| 31.5° | 295.5 | 298.9 | 299.9 | 301.2 | 301.5 | 301.6 | 301.5 | 299.8 | 297.6 | 297.0 | 295.0 |
| 32° | 293.3 | 296.5 | 297.8 | 298.7 | 299.3 | 299.9 | 299.3 | 297.4 | 295.4 | 294.9 | 292.4 |
| 32.5° | 291.0 | 293.9 | 295.4 | 296.5 | 297.1 | 297.0 | 297.0 | 295.1 | 293.3 | 291.8 | 289.8 |
| 33° | 288.7 | 291.4 | 293.2 | 294.0 | 294.7 | 294.7 | 294.3 | 292.5 | 290.8 | 289.4 | 287.5 |
| 33.5° | 286.2 | 289.1 | 290.8 | 291.7 | 292.4 | 292.3 | 292.1 | 290.0 | 288.3 | 286.8 | 284.6 |
| 34° | 283.8 | 286.6 | 288.4 | 289.5 | 289.6 | 289.6 | 289.6 | 287.8 | 285.9 | 284.3 | 281.9 |
| 34.5° | 281.1 | 283.6 | 285.9 | 287.1 | 287.4 | 287.1 | 287.1 | 285.6 | 283.1 | 281.6 | 279.1 |
| 35° | 278.4 | 281.5 | 283.0 | 284.8 | 284.7 | 284.9 | 284.1 | 282.9 | 280.3 | 279.1 | 276.6 |
| 35.5° | 276.0 | 278.8 | 280.5 | 281.7 | 282.1 | 282.5 | 281.5 | 280.9 | 278.0 | 276.8 | 274.3 |
| 36° | 272.8 | 276.0 | 278.0 | 278.9 | 279.8 | 280.1 | 278.6 | 277.7 | 275.3 | 274.1 | 271.4 |
| 36.5° | 270.5 | 273.6 | 275.2 | 276.5 | 277.1 | 277.3 | 276.0 | 274.4 | 272.5 | 271.3 | 269.0 |
| 37° | 267.8 | 270.3 | 272.7 | 273.9 | 273.6 | 274.4 | 273.4 | 272.1 | 269.7 | 268.5 | 266.1 |
| 37.5° | 264.9 | 268.0 | 269.6 | 270.5 | 271.1 | 270.9 | 270.4 | 269.1 | 267.0 | 265.4 | 263.2 |
| 38° | 261.5 | 264.8 | 266.8 | 267.7 | 268.2 | 268.6 | 268.7 | 266.1 | 264.5 | 262.5 | 260.0 |
| 38.5° | 258.8 | 262.1 | 263.4 | 264.6 | 265.9 | 265.3 | 265.5 | 263.0 | 261.5 | 259.4 | 257.3 |
| 39° | 256.0 | 258.9 | 260.9 | 261.8 | 262.9 | 263.2 | 262.0 | 260.5 | 258.7 | 257.0 | 254.2 |
| 39.5° | 252.7 | 256.1 | 257.9 | 259.1 | 260.2 | 260.2 | 258.8 | 257.6 | 254.8 | 253.5 | 251.1 |
| 40° | 249.6 | 253.7 | 255.0 | 256.3 | 256.7 | 256.7 | 255.6 | 254.5 | 251.6 | 250.9 | 248.2 |
| 40.5° | 246.8 | 249.9 | 252.0 | 253.0 | 253.2 | 253.6 | 252.9 | 250.6 | 248.7 | 248.2 | 245.1 |
| 41° | 243.4 | 246.5 | 248.5 | 250.0 | 250.6 | 250.7 | 249.8 | 248.2 | 245.3 | 244.4 | 242.0 |
| 41.5° | 240.2 | 243.1 | 245.2 | 246.7 | 247.4 | 247.5 | 246.5 | 245.4 | 242.6 | 240.8 | 238.4 |
| 42° | 236.8 | 240.0 | 242.2 | 243.3 | 244.2 | 243.5 | 243.1 | 241.4 | 239.1 | 237.7 | 235.2 |
| 42.5° | 233.4 | 236.4 | 238.7 | 239.5 | 241.4 | 240.8 | 239.6 | 238.1 | 235.6 | 234.5 | 231.7 |
| 43° | 230.1 | 233.0 | 235.0 | 236.3 | 237.7 | 237.1 | 236.4 | 234.5 | 232.3 | 230.9 | 228.5 |
| 43.5° | 226.6 | 229.5 | 231.6 | 233.1 | 234.1 | 233.8 | 232.6 | 230.9 | 229.0 | 227.5 | 225.0 |



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 215.9 | 218.8 | 221.1 | 221.9 | 223.1 | 223.3 | 222.0 | 220.5 | 218.3 | 216.7 | 214.6 |
| 45.5° | 212.3 | 215.3 | 217.0 | 218.5 | 219.7 | 219.6 | 218.8 | 216.9 | 214.5 | 213.0 | 211.2 |
| 46° | 208.7 | 211.4 | 213.7 | 215.1 | 215.7 | 215.7 | 214.9 | 213.1 | 211.0 | 209.6 | 207.5 |
| 46.5° | 204.8 | 207.6 | 210.0 | 211.3 | 212.4 | 211.9 | 211.1 | 209.4 | 207.2 | 205.7 | 203.6 |
| 47° | 201.6 | 203.9 | 206.0 | 207.0 | 208.2 | 208.4 | 207.0 | 205.5 | 203.7 | 202.1 | 200.1 |
| 47.5° | 197.4 | 200.3 | 202.3 | 203.0 | 204.5 | 204.4 | 203.3 | 202.0 | 199.4 | 198.6 | 196.0 |
| 48° | 193.9 | 196.4 | 198.6 | 199.2 | 201.0 | 200.5 | 199.6 | 198.3 | 196.0 | 194.9 | 192.5 |
| 48.5° | 190.2 | 192.6 | 194.5 | 195.7 | 196.7 | 196.6 | 196.1 | 194.2 | 192.3 | 191.2 | 188.7 |
| 49° | 186.2 | 188.6 | 190.7 | 191.7 | 192.9 | 192.6 | 191.7 | 190.4 | 188.7 | 187.3 | 185.1 |
| 49.5° | 182.6 | 184.8 | 186.9 | 188.2 | 189.1 | 189.0 | 188.0 | 186.6 | 184.8 | 183.4 | 181.3 |
| 50° | 178.5 | 180.8 | 182.9 | 183.7 | 185.0 | 185.3 | 183.9 | 182.6 | 180.9 | 179.6 | 177.7 |
| 50.5° | 175.0 | 177.4 | 178.9 | 180.2 | 181.0 | 181.2 | 180.0 | 178.6 | 176.9 | 175.8 | 173.9 |
| 51° | 171.0 | 173.6 | 175.0 | 176.4 | 177.4 | 176.7 | 176.4 | 175.0 | 173.2 | 172.4 | 170.5 |
| 51.5° | 167.3 | 169.7 | 171.4 | 172.3 | 173.7 | 173.2 | 172.5 | 171.1 | 169.5 | 168.0 | 166.4 |
| 52° | 163.1 | 165.6 | 167.3 | 168.7 | 169.8 | 169.3 | 168.4 | 167.3 | 165.9 | 164.6 | 162.6 |
| 52.5° | 159.5 | 161.4 | 163.4 | 164.5 | 165.5 | 165.3 | 164.6 | 163.6 | 161.8 | 160.8 | 158.9 |
| 53° | 155.8 | 157.7 | 159.5 | 160.7 | 161.3 | 161.9 | 160.6 | 159.3 | 157.8 | 156.7 | 155.4 |
| 53.5° | 152.0 | 153.9 | 155.8 | 157.0 | 157.6 | 157.5 | 156.8 | 155.6 | 154.0 | 153.1 | 151.7 |
| 54° | 148.2 | 150.0 | 152.2 | 152.9 | 153.6 | 153.5 | 152.7 | 152.0 | 150.4 | 149.2 | 147.9 |
| 54.5° | 144.8 | 146.4 | 148.1 | 149.3 | 149.7 | 149.8 | 149.0 | 148.2 | 146.5 | 145.5 | 144.1 |
| 55° | 140.7 | 142.5 | 144.3 | 145.4 | 145.7 | 145.8 | 145.2 | 144.1 | 142.5 | 141.6 | 140.3 |
| 55.5° | 137.0 | 138.8 | 140.5 | 141.6 | 142.0 | 142.1 | 141.2 | 140.2 | 138.8 | 137.7 | 136.8 |
| 56° | 133.4 | 135.0 | 136.8 | 137.9 | 138.3 | 138.1 | 137.2 | 136.6 | 135.0 | 134.1 | 133.2 |
| 56.5° | 129.9 | 131.5 | 133.1 | 134.1 | 134.7 | 134.4 | 133.5 | 132.7 | 131.5 | 130.7 | 129.5 |
| 57° | 126.2 | 127.7 | 129.5 | 130.2 | 130.9 | 130.6 | 130.1 | 128.9 | 127.6 | 126.8 | 126.1 |
| 57.5° | 122.5 | 124.2 | 126.1 | 126.7 | 127.0 | 126.9 | 126.1 | 125.1 | 123.9 | 123.1 | 122.3 |
| 58° | 118.8 | 120.6 | 122.4 | 123.1 | 123.5 | 123.3 | 122.5 | 121.5 | 120.2 | 119.6 | 118.6 |
| 58.5° | 115.4 | 116.7 | 118.5 | 119.4 | 120.2 | 119.8 | 118.7 | 117.7 | 116.5 | 116.0 | 115.1 |
| 59° | 111.9 | 113.3 | 115.1 | 115.6 | 116.5 | 116.1 | 115.1 | 114.3 | 113.0 | 112.2 | 111.6 |
| 59.5° | 108.5 | 109.7 | 111.3 | 112.2 | 112.5 | 112.2 | 111.8 | 110.5 | 109.3 | 108.8 | 108.3 |
| 60° | 105.1 | 106.2 | 107.9 | 108.9 | 109.3 | 108.7 | 108.0 | 107.1 | 105.9 | 105.4 | 104.9 |
| 60.5° | 101.7 | 102.8 | 104.6 | 105.3 | 105.9 | 105.4 | 104.6 | 103.5 | 102.5 | 102.0 | 101.4 |
| 61° | 98.3 | 99.4 | 101.2 | 102.0 | 102.5 | 101.9 | 100.9 | 99.9 | 98.9 | 98.5 | 98.0 |
| 61.5° | 95.2 | 96.1 | 97.8 | 98.5 | 99.0 | 98.4 | 97.5 | 96.5 | 95.6 | 95.0 | 94.5 |
| 62° | 91.9 | 92.8 | 94.4 | 95.1 | 95.8 | 94.9 | 94.1 | 93.1 | 92.2 | 91.7 | 91.4 |
| 62.5° | 88.5 | 89.7 | 91.0 | 91.8 | 92.4 | 91.7 | 90.8 | 90.1 | 88.9 | 88.4 | 88.2 |
| 63° | 85.5 | 86.5 | 87.8 | 88.5 | 89.0 | 88.2 | 87.6 | 86.5 | 85.7 | 85.3 | 84.8 |
| 63.5° | 82.3 | 83.4 | 84.7 | 85.5 | 85.7 | 85.2 | 84.2 | 83.3 | 82.6 | 82.3 | 81.9 |
| 64° | 79.2 | 80.3 | 81.7 | 82.4 | 82.6 | 82.1 | 81.2 | 80.1 | 79.4 | 79.1 | 79.0 |
| 64.5° | 76.4 | 77.3 | 78.7 | 79.3 | 79.6 | 79.0 | 78.1 | 77.1 | 76.3 | 76.1 | 75.7 |
| 65° | 73.5 | 74.4 | 75.6 | 76.2 | 76.4 | 75.9 | 75.0 | 74.2 | 73.4 | 73.3 | 72.7 |
| 65.5° | 70.6 | 71.4 | 72.8 | 73.4 | 73.5 | 73.0 | 72.1 | 71.2 | 70.5 | 70.1 | 70.0 |
| 66° | 67.8 | 68.7 | 69.9 | 70.4 | 70.7 | 70.0 | 69.1 | 68.2 | 67.5 | 67.3 | 66.9 |



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 67.5° | 59.9 | 60.7 | 61.9 | 62.5 | 62.1 | 61.6 | 60.8 | 60.0 | 59.2 | 58.9 | 58.8 |
| 68° | 57.4 | 58.2 | 59.2 | 59.8 | 59.6 | 59.0 | 58.2 | 57.1 | 56.5 | 56.4 | 56.2 |
| 68.5° | 54.9 | 55.7 | 56.6 | 57.3 | 57.0 | 56.4 | 55.4 | 54.5 | 53.8 | 53.8 | 53.5 |
| 69° | 52.3 | 53.2 | 54.1 | 54.7 | 54.5 | 53.9 | 53.0 | 52.1 | 51.4 | 51.2 | 50.9 |
| 69.5° | 49.9 | 50.8 | 51.7 | 52.2 | 52.3 | 51.5 | 50.6 | 49.6 | 48.9 | 48.8 | 48.6 |
| 70° | 47.6 | 48.4 | 49.5 | 49.8 | 49.9 | 49.3 | 48.3 | 47.4 | 46.7 | 46.4 | 46.3 |
| 70.5° | 45.4 | 46.1 | 47.0 | 47.5 | 47.6 | 47.0 | 46.1 | 45.2 | 44.5 | 44.2 | 44.0 |
| 71° | 43.1 | 43.9 | 44.7 | 45.2 | 45.4 | 44.7 | 43.8 | 42.9 | 42.2 | 42.0 | 41.8 |
| 71.5° | 40.7 | 41.7 | 42.4 | 42.9 | 43.1 | 42.4 | 41.5 | 40.8 | 39.9 | 39.6 | 39.5 |
| 72° | 38.7 | 39.4 | 40.2 | 40.6 | 41.0 | 40.3 | 39.3 | 38.6 | 37.8 | 37.5 | 37.4 |
| 72.5° | 36.5 | 37.2 | 38.1 | 38.4 | 38.8 | 38.2 | 37.3 | 36.4 | 35.8 | 35.4 | 35.2 |
| 73° | 34.4 | 35.2 | 35.9 | 36.2 | 36.7 | 36.1 | 35.2 | 34.3 | 33.8 | 33.4 | 33.2 |
| 73.5° | 32.5 | 33.3 | 33.9 | 34.2 | 34.7 | 34.1 | 33.2 | 32.4 | 31.6 | 31.4 | 31.1 |
| 74° | 30.7 | 31.4 | 32.0 | 32.2 | 32.9 | 32.1 | 31.2 | 30.4 | 29.7 | 29.3 | 29.1 |
| 74.5° | 28.8 | 29.6 | 30.1 | 30.4 | 30.9 | 30.1 | 29.3 | 28.6 | 27.9 | 27.5 | 27.4 |
| 75° | 27.2 | 27.9 | 28.4 | 28.5 | 29.0 | 28.4 | 27.5 | 26.8 | 26.1 | 25.7 | 25.6 |
| 75.5° | 25.4 | 26.1 | 26.7 | 26.8 | 27.2 | 26.7 | 25.8 | 25.1 | 24.3 | 24.0 | 23.9 |
| 76° | 23.8 | 24.5 | 24.9 | 25.0 | 25.5 | 24.9 | 24.1 | 23.4 | 22.7 | 22.4 | 22.2 |
| 76.5° | 22.3 | 22.9 | 23.4 | 23.4 | 23.9 | 23.3 | 22.5 | 21.7 | 21.1 | 20.8 | 20.6 |
| 77° | 20.8 | 21.5 | 21.8 | 22.0 | 22.3 | 21.7 | 20.9 | 20.2 | 19.5 | 19.3 | 19.1 |
| 77.5° | 19.4 | 20.0 | 20.4 | 20.5 | 20.8 | 20.2 | 19.5 | 18.8 | 18.2 | 17.8 | 17.7 |
| 78° | 18.1 | 18.6 | 19.0 | 19.1 | 19.3 | 18.8 | 18.2 | 17.5 | 16.9 | 16.5 | 16.3 |
| 78.5° | 16.8 | 17.4 | 17.8 | 17.8 | 18.0 | 17.4 | 16.8 | 16.2 | 15.6 | 15.3 | 15.1 |
| 79° | 15.7 | 16.2 | 16.5 | 16.5 | 16.7 | 16.2 | 15.5 | 15.2 | 14.5 | 14.2 | 14.0 |
| 79.5° | 14.7 | 15.2 | 15.5 | 15.5 | 15.4 | 15.1 | 14.6 | 14.0 | 13.4 | 13.1 | 12.9 |
| 80° | 13.6 | 14.1 | 14.4 | 14.4 | 14.4 | 14.0 | 13.5 | 12.9 | 12.4 | 12.1 | 11.9 |
| 80.5° | 12.6 | 13.1 | 13.4 | 13.3 | 13.3 | 12.9 | 12.4 | 12.0 | 11.5 | 11.1 | 10.9 |
| 81° | 11.7 | 12.2 | 12.4 | 12.4 | 12.3 | 12.0 | 11.5 | 11.0 | 10.6 | 10.3 | 10.0 |
| 81.5° | 10.8 | 11.2 | 11.5 | 11.5 | 11.3 | 11.0 | 10.5 | 10.1 | 9.7 | 9.5 | 9.3 |
| 82° | 10.1 | 10.4 | 10.6 | 10.6 | 10.4 | 10.1 | 9.7 | 9.4 | 9.0 | 8.8 | 8.6 |
| 82.5° | 9.4 | 9.7 | 9.9 | 9.8 | 9.6 | 9.4 | 9.1 | 8.6 | 8.3 | 8.1 | 7.8 |
| 83° | 8.6 | 9.0 | 9.2 | 9.2 | 9.0 | 8.6 | 8.4 | 8.1 | 7.6 | 7.4 | 7.1 |
| 83.5° | 7.9 | 8.3 | 8.5 | 8.5 | 8.2 | 8.0 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 |
| 84° | 7.4 | 7.6 | 7.9 | 7.9 | 7.6 | 7.4 | 7.0 | 6.7 | 6.3 | 6.0 | 5.8 |
| 84.5° | 6.7 | 7.0 | 7.2 | 7.2 | 7.0 | 6.8 | 6.4 | 6.1 | 5.6 | 5.4 | 5.1 |
| 85° | 6.0 | 6.3 | 6.6 | 6.6 | 6.3 | 6.2 | 5.7 | 5.4 | 5.0 | 4.7 | 4.4 |
| 85.5° | 5.3 | 5.7 | 6.0 | 6.0 | 5.7 | 5.5 | 5.2 | 4.7 | 4.3 | 4.1 | 3.8 |
| 86° | 4.7 | 5.1 | 5.3 | 5.3 | 5.1 | 4.9 | 4.5 | 4.1 | 3.8 | 3.4 | 3.3 |
| 86.5° | 4.0 | 4.4 | 4.7 | 4.7 | 4.5 | 4.2 | 4.0 | 3.5 | 3.3 | 2.8 | 2.5 |
| 87° | 3.4 | 3.8 | 4.0 | 4.1 | 4.0 | 3.7 | 3.3 | 2.9 | 2.5 | 2.2 | 1.9 |
| 87.5° | 2.8 | 3.3 | 3.5 | 3.5 | 3.3 | 3.3 | 2.7 | 2.4 | 1.9 | 1.5 | 1.3 |
| 88° | 2.2 | 2.6 | 2.9 | 2.9 | 2.7 | 2.5 | 2.1 | 1.7 | 1.3 | 1.0 | 0.7 |
| 88.5° | 1.7 | 2.1 | 2.2 | 2.3 | 2.1 | 1.9 | 1.5 | 1.2 | 0.8 | 0.4 | 0.3 |



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.1 | 0.4 | 0.6 | 0.6 | 0.4 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 0° | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 |
| 0.5° | 373.4 | 373.3 | 373.7 | 374.1 | 373.2 | 373.2 |
| 1° | 373.1 | 372.8 | 373.0 | 373.7 | 373.4 | 373.1 |
| 1.5° | 373.0 | 372.6 | 372.8 | 373.2 | 373.9 | 373.1 |
| 2° | 372.9 | 372.2 | 372.8 | 373.2 | 373.9 | 372.4 |
| 2.5° | 372.3 | 371.6 | 372.5 | 373.3 | 373.0 | 372.3 |
| 3° | 372.3 | 371.6 | 372.1 | 372.9 | 372.6 | 372.4 |
| 3.5° | 372.2 | 371.3 | 372.1 | 372.6 | 372.4 | 372.1 |
| 4° | 372.0 | 371.6 | 371.7 | 372.1 | 372.2 | 371.1 |
| 4.5° | 371.8 | 371.5 | 371.8 | 371.9 | 371.6 | 370.7 |
| 5° | 372.0 | 371.1 | 370.5 | 371.4 | 371.0 | 370.6 |
| 5.5° | 371.6 | 370.1 | 370.5 | 370.5 | 370.2 | 369.8 |
| 6° | 369.8 | 369.2 | 369.5 | 370.4 | 370.2 | 369.8 |
| 6.5° | 369.0 | 368.6 | 369.5 | 369.6 | 368.9 | 369.8 |
| 7° | 368.6 | 368.5 | 368.9 | 369.0 | 368.7 | 368.7 |
| 7.5° | 368.1 | 367.5 | 367.3 | 368.7 | 368.3 | 368.0 |
| 8° | 368.0 | 367.1 | 366.8 | 367.8 | 367.8 | 367.5 |
| 8.5° | 366.7 | 366.0 | 366.3 | 367.1 | 367.1 | 367.2 |
| 9° | 366.1 | 365.3 | 365.0 | 365.9 | 366.3 | 366.3 |
| 9.5° | 365.5 | 364.4 | 364.6 | 365.3 | 365.8 | 365.2 |
| 10° | 364.6 | 363.9 | 364.5 | 364.8 | 364.9 | 365.0 |
| 10.5° | 363.6 | 363.2 | 363.2 | 363.7 | 364.3 | 363.8 |
| 11° | 363.5 | 363.0 | 362.9 | 362.9 | 362.5 | 363.0 |
| 11.5° | 362.2 | 362.1 | 362.1 | 361.8 | 362.0 | 362.2 |
| 12° | 361.8 | 360.5 | 359.9 | 360.7 | 361.2 | 360.9 |
| 12.5° | 360.2 | 359.4 | 358.8 | 359.9 | 359.8 | 359.8 |
| 13° | 358.6 | 358.1 | 358.2 | 359.1 | 359.0 | 359.6 |
| 13.5° | 357.9 | 356.9 | 357.6 | 358.1 | 358.0 | 358.2 |
| 14° | 357.2 | 355.5 | 356.3 | 356.8 | 357.0 | 357.3 |
| 14.5° | 355.8 | 354.7 | 355.0 | 355.4 | 355.2 | 356.1 |
| 15° | 354.5 | 353.1 | 354.1 | 353.8 | 354.8 | 355.2 |
| 15.5° | 352.9 | 351.7 | 352.2 | 352.6 | 353.4 | 353.9 |
| 16° | 351.6 | 350.3 | 350.9 | 350.9 | 351.8 | 352.3 |
| 16.5° | 350.6 | 349.0 | 349.6 | 350.9 | 350.5 | 350.9 |
| 17° | 349.1 | 347.7 | 348.4 | 349.1 | 349.8 | 349.7 |
| 17.5° | 347.8 | 346.6 | 347.5 | 346.8 | 347.9 | 348.0 |
| 18° | 346.8 | 344.9 | 345.7 | 345.8 | 346.0 | 346.8 |
| 18.5° | 344.6 | 344.1 | 343.4 | 344.0 | 345.0 | 344.6 |
| 19° | 343.4 | 342.7 | 342.0 | 343.5 | 343.5 | 343.8 |
| 19.5° | 341.8 | 340.9 | 340.5 | 341.3 | 342.3 | 342.6 |
| 20° | 340.2 | 339.5 | 338.9 | 339.9 | 340.6 | 341.4 |
| 20.5° | 338.1 | 337.8 | 337.4 | 338.8 | 339.3 | 340.0 |
| 21° | 336.7 | 335.9 | 335.9 | 336.5 | 337.0 | 338.0 |

TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 331.9 | 329.8 | 330.2 | 331.5 | 331.6 | 333.3 |
| 23° | 329.7 | 328.2 | 328.2 | 329.8 | 330.5 | 331.7 |
| 23.5° | 328.3 | 326.2 | 326.7 | 327.7 | 328.5 | 330.1 |
| 24° | 326.1 | 324.5 | 324.8 | 325.4 | 326.4 | 328.5 |
| 24.5° | 324.2 | 322.2 | 322.8 | 323.9 | 324.7 | 325.9 |
| 25° | 322.1 | 319.9 | 320.8 | 322.3 | 323.1 | 324.8 |
| 25.5° | 319.9 | 318.3 | 318.5 | 320.1 | 320.9 | 322.2 |
| 26° | 318.1 | 316.2 | 316.8 | 317.9 | 319.3 | 320.4 |
| 26.5° | 316.1 | 313.9 | 314.9 | 315.8 | 316.8 | 319.2 |
| 27° | 313.8 | 312.0 | 312.4 | 313.8 | 314.7 | 315.9 |
| 27.5° | 311.6 | 309.7 | 310.2 | 311.9 | 312.9 | 313.8 |
| 28° | 309.6 | 308.2 | 308.2 | 310.5 | 310.5 | 311.6 |
| 28.5° | 307.5 | 305.7 | 306.0 | 307.7 | 308.2 | 309.4 |
| 29° | 304.9 | 303.3 | 303.8 | 305.4 | 306.0 | 307.2 |
| 29.5° | 302.4 | 300.5 | 301.5 | 302.6 | 303.8 | 305.2 |
| 30° | 300.3 | 298.6 | 298.9 | 300.7 | 301.7 | 303.0 |
| 30.5° | 298.0 | 296.4 | 296.7 | 298.5 | 299.2 | 300.3 |
| 31° | 295.7 | 294.2 | 294.2 | 296.2 | 296.8 | 297.6 |
| 31.5° | 293.5 | 291.9 | 291.8 | 293.4 | 294.5 | 295.5 |
| 32° | 290.5 | 289.4 | 289.2 | 290.9 | 292.3 | 293.3 |
| 32.5° | 287.9 | 286.7 | 286.7 | 288.2 | 289.8 | 291.0 |
| 33° | 285.4 | 283.6 | 284.4 | 285.9 | 287.5 | 288.7 |
| 33.5° | 283.0 | 281.6 | 282.0 | 283.5 | 284.8 | 286.2 |
| 34° | 280.6 | 278.6 | 279.3 | 280.7 | 282.4 | 283.8 |
| 34.5° | 278.1 | 276.2 | 276.8 | 278.5 | 279.8 | 281.1 |
| 35° | 275.7 | 273.9 | 274.2 | 275.8 | 277.4 | 278.4 |
| 35.5° | 272.9 | 271.6 | 271.6 | 273.0 | 274.3 | 276.0 |
| 36° | 269.8 | 268.8 | 269.2 | 270.6 | 271.9 | 272.8 |
| 36.5° | 267.3 | 266.0 | 266.1 | 267.7 | 268.8 | 270.5 |
| 37° | 265.0 | 263.4 | 263.0 | 265.0 | 266.5 | 267.8 |
| 37.5° | 262.1 | 260.2 | 260.4 | 261.9 | 263.7 | 264.9 |
| 38° | 258.9 | 257.2 | 257.8 | 259.1 | 260.8 | 261.5 |
| 38.5° | 256.0 | 254.1 | 255.1 | 256.4 | 257.6 | 258.8 |
| 39° | 253.1 | 251.3 | 251.8 | 253.4 | 254.6 | 256.0 |
| 39.5° | 249.6 | 248.7 | 248.9 | 250.7 | 251.5 | 252.7 |
| 40° | 246.7 | 245.6 | 245.6 | 247.5 | 248.6 | 249.6 |
| 40.5° | 243.7 | 242.5 | 243.0 | 244.4 | 245.2 | 246.8 |
| 41° | 240.2 | 239.1 | 239.7 | 241.3 | 242.2 | 243.4 |
| 41.5° | 237.4 | 235.2 | 236.7 | 238.2 | 239.1 | 240.2 |
| 42° | 234.2 | 232.1 | 233.6 | 234.6 | 235.8 | 236.8 |
| 42.5° | 230.4 | 229.1 | 229.9 | 231.1 | 232.8 | 233.4 |
| 43° | 227.2 | 225.8 | 226.1 | 227.9 | 229.2 | 230.1 |
| 43.5° | 223.5 | 222.6 | 222.6 | 224.5 | 225.8 | 226.6 |



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 213.5 | 211.6 | 212.4 | 214.0 | 215.3 | 215.9 |
| 45.5° | 209.8 | 208.2 | 208.8 | 210.6 | 211.3 | 212.3 |
| 46° | 206.2 | 204.7 | 205.3 | 207.5 | 208.3 | 208.7 |
| 46.5° | 202.3 | 201.2 | 202.2 | 203.5 | 204.3 | 204.8 |
| 47° | 198.9 | 197.6 | 198.2 | 199.8 | 200.8 | 201.6 |
| 47.5° | 195.2 | 194.0 | 194.9 | 196.4 | 196.9 | 197.4 |
| 48° | 191.7 | 190.5 | 191.0 | 193.0 | 193.5 | 193.9 |
| 48.5° | 187.8 | 186.7 | 187.6 | 188.7 | 189.6 | 190.2 |
| 49° | 183.8 | 183.0 | 184.1 | 185.5 | 185.9 | 186.2 |
| 49.5° | 180.2 | 179.6 | 180.4 | 181.8 | 181.9 | 182.6 |
| 50° | 176.9 | 175.7 | 177.3 | 178.2 | 178.1 | 178.5 |
| 50.5° | 172.8 | 172.1 | 173.2 | 174.5 | 174.9 | 175.0 |
| 51° | 169.1 | 168.6 | 169.8 | 170.8 | 171.2 | 171.0 |
| 51.5° | 165.4 | 165.2 | 165.7 | 167.2 | 167.3 | 167.3 |
| 52° | 161.9 | 161.3 | 162.2 | 163.5 | 163.2 | 163.1 |
| 52.5° | 158.1 | 157.8 | 158.8 | 159.7 | 159.6 | 159.5 |
| 53° | 154.6 | 154.0 | 155.4 | 156.3 | 156.1 | 155.8 |
| 53.5° | 150.9 | 150.4 | 151.5 | 152.4 | 152.3 | 152.0 |
| 54° | 147.3 | 146.9 | 147.7 | 149.1 | 148.4 | 148.2 |
| 54.5° | 143.7 | 143.1 | 143.8 | 145.4 | 144.9 | 144.8 |
| 55° | 140.1 | 139.7 | 140.6 | 141.5 | 141.1 | 140.7 |
| 55.5° | 136.5 | 135.9 | 137.0 | 137.6 | 137.5 | 137.0 |
| 56° | 133.0 | 132.4 | 133.1 | 134.2 | 133.8 | 133.4 |
| 56.5° | 129.4 | 128.6 | 129.5 | 130.8 | 130.4 | 129.9 |
| 57° | 125.9 | 125.3 | 126.3 | 127.2 | 126.8 | 126.2 |
| 57.5° | 122.2 | 121.5 | 122.8 | 123.4 | 122.9 | 122.5 |
| 58° | 118.6 | 118.1 | 119.2 | 119.9 | 119.5 | 118.8 |
| 58.5° | 115.3 | 114.7 | 115.6 | 116.5 | 115.8 | 115.4 |
| 59° | 111.8 | 111.4 | 112.0 | 113.1 | 112.4 | 111.9 |
| 59.5° | 108.3 | 107.8 | 108.9 | 109.5 | 109.0 | 108.5 |
| 60° | 104.9 | 104.5 | 105.3 | 106.3 | 105.5 | 105.1 |
| 60.5° | 101.7 | 101.1 | 102.0 | 102.8 | 102.2 | 101.7 |
| 61° | 98.5 | 98.0 | 98.8 | 99.4 | 99.0 | 98.3 |
| 61.5° | 94.9 | 94.8 | 95.6 | 96.2 | 95.6 | 95.2 |
| 62° | 91.6 | 91.4 | 92.4 | 92.7 | 92.1 | 91.9 |
| 62.5° | 88.5 | 88.3 | 89.1 | 89.6 | 88.9 | 88.5 |
| 63° | 85.3 | 85.3 | 85.9 | 86.5 | 85.9 | 85.5 |
| 63.5° | 82.1 | 82.3 | 83.1 | 83.3 | 82.8 | 82.3 |
| 64° | 79.0 | 79.2 | 79.8 | 80.3 | 79.7 | 79.2 |
| 64.5° | 75.9 | 76.1 | 76.9 | 77.3 | 76.7 | 76.4 |
| 65° | 73.2 | 73.3 | 73.9 | 74.2 | 73.7 | 73.5 |
| 65.5° | 70.3 | 70.3 | 71.2 | 71.2 | 70.9 | 70.6 |
| 66° | 67.3 | 67.3 | 68.2 | 68.6 | 68.0 | 67.8 |



TEST NUMBER: P639499

CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 59.2 | 59.3 | 60.0 | 60.2 | 60.0 | 59.9 |
| 68° | 56.5 | 56.8 | 57.4 | 57.6 | 57.4 | 57.4 |
| 68.5° | 53.9 | 54.2 | 54.6 | 55.0 | 54.9 | 54.9 |
| 69° | 51.3 | 51.5 | 52.1 | 52.5 | 52.3 | 52.3 |
| 69.5° | 48.8 | 49.1 | 49.6 | 49.9 | 49.8 | 49.9 |
| 70° | 46.6 | 46.4 | 47.2 | 47.6 | 47.5 | 47.6 |
| 70.5° | 44.4 | 44.0 | 44.8 | 45.2 | 45.2 | 45.4 |
| 71° | 42.0 | 41.7 | 42.3 | 42.9 | 43.0 | 43.1 |
| 71.5° | 39.8 | 39.5 | 40.0 | 40.5 | 40.6 | 40.7 |
| 72° | 37.5 | 37.2 | 37.8 | 38.2 | 38.4 | 38.7 |
| 72.5° | 35.5 | 35.0 | 35.5 | 36.0 | 36.2 | 36.5 |
| 73° | 33.3 | 32.7 | 33.2 | 33.8 | 34.1 | 34.4 |
| 73.5° | 31.3 | 30.7 | 31.1 | 31.7 | 32.2 | 32.5 |
| 74° | 29.4 | 28.7 | 29.2 | 29.9 | 30.2 | 30.7 |
| 74.5° | 27.4 | 26.9 | 27.3 | 27.9 | 28.4 | 28.8 |
| 75° | 25.7 | 25.1 | 25.6 | 26.1 | 26.7 | 27.2 |
| 75.5° | 24.0 | 23.4 | 23.8 | 24.4 | 24.9 | 25.4 |
| 76° | 22.2 | 21.7 | 22.2 | 22.7 | 23.3 | 23.8 |
| 76.5° | 20.6 | 20.2 | 20.6 | 21.2 | 21.7 | 22.3 |
| 77° | 19.1 | 18.8 | 19.1 | 19.7 | 20.2 | 20.8 |
| 77.5° | 17.7 | 17.4 | 17.7 | 18.3 | 18.8 | 19.4 |
| 78° | 16.3 | 16.0 | 16.3 | 17.0 | 17.6 | 18.1 |
| 78.5° | 15.1 | 14.9 | 15.2 | 15.8 | 16.3 | 16.8 |
| 79° | 13.9 | 13.8 | 14.2 | 14.7 | 15.2 | 15.7 |
| 79.5° | 12.8 | 12.7 | 13.0 | 13.6 | 14.2 | 14.7 |
| 80° | 11.7 | 11.8 | 12.1 | 12.6 | 13.1 | 13.6 |
| 80.5° | 10.8 | 10.9 | 11.1 | 11.7 | 12.2 | 12.6 |
| 81° | 9.9 | 10.1 | 10.4 | 10.8 | 11.3 | 11.7 |
| 81.5° | 9.2 | 9.4 | 9.7 | 10.1 | 10.4 | 10.8 |
| 82° | 8.5 | 8.7 | 9.0 | 9.3 | 9.7 | 10.1 |
| 82.5° | 7.8 | 8.0 | 8.2 | 8.6 | 9.0 | 9.4 |
| 83° | 7.1 | 7.2 | 7.5 | 7.9 | 8.3 | 8.6 |
| 83.5° | 6.3 | 6.6 | 6.8 | 7.2 | 7.6 | 7.9 |
| 84° | 5.6 | 6.0 | 6.2 | 6.5 | 6.9 | 7.4 |
| 84.5° | 5.0 | 5.3 | 5.4 | 5.9 | 6.3 | 6.7 |
| 85° | 4.3 | 4.5 | 4.9 | 5.2 | 5.6 | 6.0 |
| 85.5° | 3.7 | 3.9 | 4.2 | 4.5 | 4.9 | 5.3 |
| 86° | 3.1 | 3.3 | 3.6 | 3.8 | 4.3 | 4.7 |
| 86.5° | 2.5 | 2.6 | 2.9 | 3.3 | 3.7 | 4.0 |
| 87° | 1.8 | 2.1 | 2.3 | 2.6 | 3.1 | 3.4 |
| 87.5° | 1.2 | 1.4 | 1.7 | 2.1 | 2.4 | 2.8 |
| 88° | 0.6 | 0.8 | 1.0 | 1.4 | 1.9 | 2.2 |
| 88.5° | 0.1 | 0.4 | 0.6 | 0.8 | 1.2 | 1.7 |



TEST NUMBER: P639499
CATALOG NUMBER: RL56LS9FSD2W1EWH -900LM -2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |

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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report





| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 336.8 | 338.6 | 339.7 | 340.9 | 341.1 | 341.7 | 341.4 | 339.5 | 338.3 | 337.7 | 336.2 |
| 22° | 334.7 | 336.7 | 337.6 | 339.5 | 339.3 | 340.3 | 339.5 | 338.4 | 336.7 | 336.3 | 334.2 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44° | 222.8 | 226.0 | 228.2 | 229.7 | 230.4 | 230.5 | 229.2 | 227.7 | 225.3 | 224.0 | 221.7 |
| 44.5° | 219.7 | 222.4 | 224.0 | 225.9 | 226.7 | 226.4 | 226.0 | 224.2 | 222.0 | 219.9 | 217.8 |



| | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 66.5° | 65.1 | 66.0 | 67.0 | 67.7 | 67.6 | 67.0 | 66.2 | 65.3 | 64.6 | 64.4 | 64.2 |
| 67° | 62.6 | 63.2 | 64.3 | 64.9 | 65.0 | 64.2 | 63.4 | 62.5 | 61.8 | 61.7 | 61.4 |



| | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89° | 1.0 | 1.4 | 1.7 | 1.8 | 1.5 | 1.3 | 1.0 | 0.5 | 0.2 | 0.0 | 0.0 |
| 89.5° | 0.5 | 0.8 | 1.2 | 1.2 | 1.1 | 0.8 | 0.4 | 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





| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 335.2 | 333.8 | 334.0 | 334.7 | 335.6 | 336.8 |
| 22° | 333.0 | 331.5 | 332.5 | 333.3 | 333.6 | 334.7 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 44° | 220.2 | 218.8 | 219.3 | 221.3 | 222.5 | 222.8 |
| 44.5° | 217.0 | 215.1 | 215.8 | 218.1 | 218.8 | 219.7 |

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

Scaled Data Report



| | | | | | | |
|-------|------|------|------|------|------|------|
| 66.5° | 64.5 | 64.6 | 65.3 | 65.7 | 65.3 | 65.1 |
| 67° | 61.8 | 62.0 | 62.7 | 63.0 | 62.7 | 62.6 |

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

Scaled Data Report



| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 89° | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 1.0 |
| 89.5° | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.5 |

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

Scaled Data Report



(END OF REPORT)