

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: P851821

Luminaire Tested: RLFRC4FSMBB-5000K

Issue Date: 7/3/2024

Test Information

Test Method: LM-79-2019
Report Number: P851821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (UTC2404001E-B1)
Test Lab: INNOVATION CENTER
Issue Date: 7/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RLFRC4FSMBB-5000K
Description: 4" Fire Rated Canless, 5000K CCT 900lms,BLK
Light Source: -
Ballast/Driver:

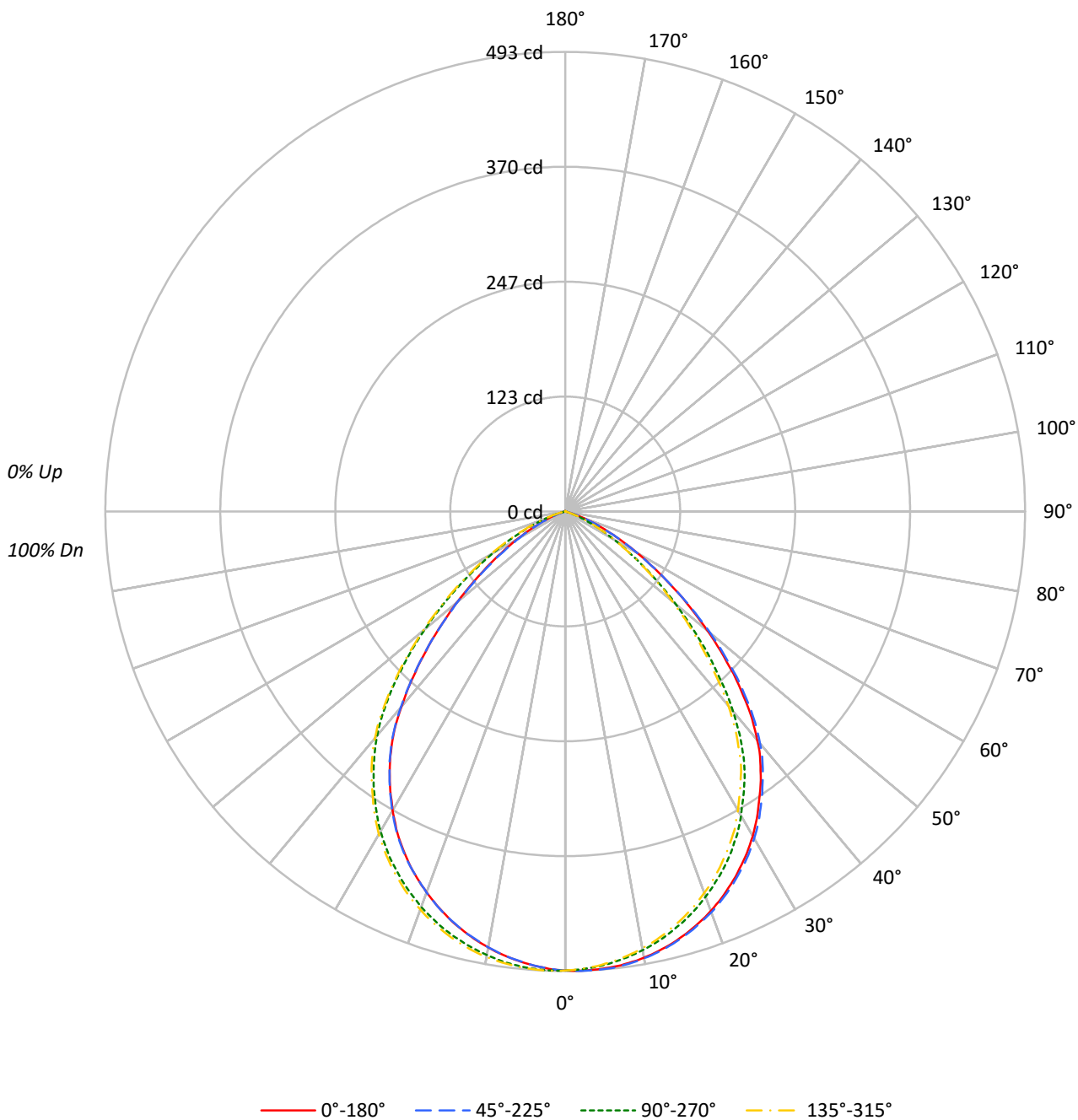
Summary

Lumens per Lamp: 907.9 (1 lamp)
Luminaire Lumens: 924.0 lumens
Efficiency: 101.8%
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.23
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P851821
CATALOG NUMBER: RLFRC4FSMBB-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 121 | 121 | 121 | 121 | 118 | 118 | 118 | 118 | 113 | 113 | 113 | 108 | 108 | 108 | 104 | 104 | 104 | 102 |
| 1 | 114 | 110 | 107 | 104 | 111 | 108 | 105 | 102 | 104 | 101 | 99 | 100 | 98 | 96 | 96 | 95 | 93 | 91 |
| 2 | 106 | 99 | 94 | 89 | 103 | 97 | 92 | 88 | 94 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 83 | 81 |
| 3 | 98 | 89 | 83 | 77 | 96 | 88 | 82 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 80 | 76 | 73 | 71 |
| 4 | 91 | 81 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 |
| 5 | 85 | 73 | 66 | 60 | 83 | 72 | 65 | 60 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 56 |
| 6 | 79 | 67 | 59 | 54 | 77 | 66 | 59 | 53 | 64 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 |
| 7 | 73 | 61 | 54 | 48 | 72 | 61 | 53 | 48 | 59 | 52 | 48 | 58 | 52 | 47 | 56 | 51 | 47 | 45 |
| 8 | 69 | 57 | 49 | 44 | 67 | 56 | 48 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 44 | 40 | 51 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 37 |
| 10 | 61 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 61981 | 61981 | 61981 | 61981 |
| 5° | 62142 | 61687 | 61460 | 62028 |
| 10° | 62107 | 61071 | 60688 | 61736 |
| 15° | 61757 | 60155 | 59646 | 61249 |
| 20° | 61071 | 58901 | 58218 | 60454 |
| 25° | 60015 | 57266 | 56377 | 59196 |
| 30° | 58433 | 54785 | 53797 | 57532 |
| 35° | 56030 | 51483 | 50331 | 55016 |
| 40° | 52621 | 46000 | 44850 | 51536 |
| 45° | 46808 | 38586 | 37447 | 45812 |
| 50° | 39099 | 30347 | 29486 | 38257 |
| 55° | 30542 | 22380 | 21700 | 30345 |
| 60° | 22552 | 15379 | 14850 | 22603 |
| 65° | 15038 | 9172 | 8814 | 15247 |
| 70° | 8353 | 3864 | 3716 | 8610 |
| 75° | 2528 | 292 | 340 | 2674 |
| 80° | 362 | 72 | 0 | 290 |
| 85° | 289 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 49264 cd/sqm



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 46.4 | 5.0 | 5.1 |
| 10°-20° | 131.3 | 14.2 | 14.5 |
| 20°-30° | 192.7 | 20.9 | 21.2 |
| 30°-40° | 215.4 | 23.3 | 23.7 |
| 40°-50° | 182.0 | 19.7 | 20.0 |
| 50°-60° | 108.4 | 11.7 | 11.9 |
| 60°-70° | 41.9 | 4.5 | 4.6 |
| 70°-80° | 5.3 | 0.6 | 0.6 |
| 80°-90° | 0.1 | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.1 | 0.0 | 0.0 |
| 140°-150° | 0.1 | 0.0 | 0.0 |
| 150°-160° | 0.1 | 0.0 | 0.0 |
| 160°-170° | 0.1 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 370.4 | 40.1 | 40.8 |
| 0°-40° | 585.8 | 63.4 | 64.5 |
| 0°-60° | 876.2 | 94.8 | 96.5 |
| 0°-90° | 923.5 | 99.9 | 101.7 |
| 90°-120° | 0.0 | 0.0 | 0.0 |
| 90°-150° | 0.3 | 0.0 | 0.0 |
| 90°-180° | 1.0 | 0.1 | 0.1 |
| 0°-180° | 924.0 | 100.0 | 101.8 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 492 | 492 | 492 | 492 | 492 | |
| 5° | 492 | 488 | 486 | 491 | 492 | 47 |
| 15° | 474 | 462 | 458 | 470 | 474 | 134 |
| 25° | 432 | 412 | 406 | 426 | 432 | 199 |
| 35° | 365 | 335 | 328 | 358 | 365 | 227 |
| 45° | 263 | 217 | 210 | 257 | 263 | 202 |
| 55° | 139 | 102 | 99 | 138 | 139 | 126 |
| 65° | 50 | 31 | 30 | 51 | 50 | 52 |
| 75° | 5 | 1 | 1 | 6 | 5 | 8 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |
| 95° | 0 | 0 | 0 | 0 | 0 | 0 |
| 105° | 0 | 0 | 0 | 0 | 0 | 0 |
| 115° | 0 | 0 | 0 | 0 | 0 | 0 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 |
| 1° | 492.9 | 492.9 | 492.9 | 493.1 | 492.1 | 492.1 | 492.0 | 491.9 | 491.8 | 491.8 | 491.8 |
| 2° | 493.0 | 493.3 | 493.1 | 493.4 | 491.5 | 491.3 | 491.0 | 491.2 | 490.9 | 490.7 | 490.6 |
| 3° | 492.7 | 493.3 | 493.1 | 493.6 | 490.6 | 490.4 | 490.0 | 490.2 | 489.5 | 489.4 | 489.6 |
| 4° | 492.5 | 493.3 | 493.0 | 493.6 | 489.5 | 489.4 | 488.8 | 488.9 | 488.2 | 487.7 | 488.1 |
| 5° | 491.9 | 492.9 | 492.5 | 493.2 | 488.3 | 488.2 | 487.2 | 487.6 | 486.5 | 485.9 | 486.3 |
| 6° | 491.3 | 492.3 | 492.2 | 492.7 | 486.4 | 486.6 | 485.4 | 485.5 | 484.6 | 484.2 | 484.3 |
| 7° | 490.4 | 491.7 | 491.1 | 492.0 | 484.6 | 484.7 | 483.4 | 483.7 | 482.6 | 481.8 | 482.4 |
| 8° | 489.1 | 490.6 | 490.0 | 490.9 | 482.7 | 482.8 | 481.2 | 481.6 | 480.3 | 479.5 | 480.2 |
| 9° | 487.9 | 489.3 | 488.6 | 489.7 | 480.3 | 480.2 | 478.6 | 479.3 | 477.8 | 476.7 | 477.4 |
| 10° | 486.0 | 487.7 | 486.7 | 488.3 | 477.9 | 477.6 | 475.8 | 476.5 | 474.9 | 473.6 | 474.7 |
| 11° | 484.1 | 486.0 | 485.0 | 486.6 | 475.3 | 475.0 | 473.0 | 473.7 | 472.0 | 470.7 | 471.6 |
| 12° | 482.0 | 484.0 | 482.9 | 484.5 | 472.3 | 472.0 | 469.9 | 470.4 | 468.7 | 467.3 | 468.3 |
| 13° | 479.6 | 481.7 | 480.6 | 482.3 | 469.1 | 468.9 | 466.3 | 467.3 | 465.2 | 463.8 | 465.1 |
| 14° | 477.2 | 479.0 | 477.9 | 479.9 | 465.5 | 465.4 | 462.5 | 463.8 | 461.6 | 460.4 | 461.5 |
| 15° | 474.0 | 476.4 | 474.9 | 477.3 | 461.7 | 461.7 | 458.5 | 459.9 | 457.8 | 456.2 | 457.4 |
| 16° | 470.9 | 473.5 | 471.9 | 474.7 | 458.1 | 457.7 | 454.8 | 455.9 | 453.7 | 452.1 | 453.5 |
| 17° | 467.5 | 470.1 | 468.9 | 471.3 | 453.9 | 453.6 | 450.2 | 451.9 | 449.0 | 447.7 | 449.3 |
| 18° | 464.0 | 466.7 | 465.2 | 468.1 | 449.6 | 449.2 | 445.8 | 446.9 | 444.5 | 442.9 | 444.8 |
| 19° | 460.3 | 463.1 | 461.5 | 464.6 | 444.7 | 444.4 | 440.8 | 442.1 | 439.6 | 437.9 | 439.7 |
| 20° | 456.0 | 459.2 | 457.7 | 460.5 | 439.8 | 439.5 | 435.6 | 437.5 | 434.7 | 433.1 | 434.9 |
| 21° | 451.8 | 454.8 | 453.6 | 456.5 | 435.0 | 434.4 | 430.6 | 432.5 | 429.5 | 427.7 | 429.3 |
| 22° | 447.4 | 450.4 | 448.8 | 452.5 | 429.4 | 429.4 | 424.9 | 426.9 | 423.9 | 421.6 | 423.8 |
| 23° | 442.2 | 446.1 | 444.3 | 447.7 | 424.2 | 423.8 | 419.0 | 421.0 | 418.4 | 415.8 | 418.5 |
| 24° | 437.4 | 440.9 | 439.5 | 443.2 | 418.4 | 417.9 | 412.9 | 415.3 | 412.5 | 410.1 | 412.9 |
| 25° | 432.2 | 435.9 | 434.1 | 438.2 | 412.4 | 411.6 | 406.5 | 408.9 | 406.0 | 403.5 | 406.7 |
| 26° | 426.3 | 430.8 | 428.8 | 433.3 | 406.0 | 405.7 | 400.3 | 402.4 | 399.3 | 397.3 | 400.4 |
| 27° | 420.8 | 425.4 | 423.5 | 428.0 | 399.0 | 398.8 | 393.4 | 396.1 | 392.8 | 390.4 | 393.7 |
| 28° | 415.0 | 419.5 | 417.8 | 422.0 | 392.5 | 391.5 | 386.7 | 389.1 | 385.7 | 382.6 | 386.3 |
| 29° | 408.4 | 413.6 | 411.5 | 416.3 | 384.8 | 384.6 | 378.3 | 381.7 | 377.7 | 374.5 | 378.8 |
| 30° | 402.1 | 407.6 | 405.3 | 409.8 | 377.0 | 376.9 | 370.4 | 374.0 | 370.2 | 366.8 | 370.8 |
| 31° | 395.1 | 401.0 | 398.7 | 403.5 | 368.1 | 368.2 | 361.7 | 365.4 | 361.6 | 359.3 | 362.2 |
| 32° | 388.0 | 393.3 | 391.7 | 396.8 | 360.4 | 360.4 | 353.4 | 357.4 | 353.8 | 350.5 | 354.5 |
| 33° | 379.9 | 386.2 | 383.7 | 389.7 | 352.4 | 351.3 | 345.2 | 348.9 | 345.1 | 342.0 | 345.8 |
| 34° | 372.2 | 378.7 | 376.1 | 382.3 | 344.1 | 343.8 | 337.2 | 340.2 | 336.5 | 332.4 | 336.7 |
| 35° | 364.7 | 370.4 | 368.3 | 374.0 | 335.1 | 335.0 | 328.0 | 331.3 | 327.6 | 324.0 | 328.6 |
| 36° | 356.8 | 362.7 | 360.0 | 366.2 | 325.3 | 325.5 | 317.1 | 322.1 | 317.8 | 313.7 | 318.5 |
| 37° | 348.1 | 354.8 | 352.0 | 358.3 | 314.5 | 314.9 | 306.9 | 312.5 | 307.9 | 304.5 | 309.1 |
| 38° | 339.9 | 346.8 | 343.8 | 350.2 | 303.8 | 303.3 | 295.9 | 300.9 | 297.4 | 292.9 | 297.9 |
| 39° | 331.0 | 337.5 | 335.2 | 341.1 | 291.6 | 292.4 | 283.9 | 290.1 | 285.3 | 281.1 | 287.1 |
| 40° | 320.3 | 328.3 | 324.8 | 332.3 | 280.0 | 280.4 | 272.2 | 277.4 | 273.0 | 269.0 | 274.2 |
| 41° | 310.0 | 318.4 | 314.6 | 321.8 | 268.2 | 268.7 | 259.3 | 265.9 | 260.6 | 255.9 | 261.9 |
| 42° | 299.2 | 306.7 | 303.9 | 311.3 | 254.8 | 255.8 | 246.4 | 253.0 | 248.6 | 243.8 | 249.1 |
| 43° | 287.8 | 295.7 | 292.7 | 300.3 | 241.5 | 242.7 | 233.0 | 239.7 | 235.2 | 231.9 | 237.2 |
| 44° | 275.0 | 284.1 | 279.7 | 288.8 | 229.0 | 230.5 | 221.0 | 227.9 | 223.7 | 218.5 | 224.0 |



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 263.0 | 272.4 | 267.7 | 276.8 | 216.8 | 216.9 | 208.8 | 215.6 | 210.4 | 205.1 | 211.5 |
| 46° | 250.8 | 259.1 | 255.4 | 263.3 | 203.5 | 205.7 | 197.0 | 203.7 | 198.6 | 191.8 | 198.2 |
| 47° | 237.2 | 246.7 | 241.6 | 251.1 | 190.7 | 192.6 | 184.3 | 191.0 | 185.9 | 180.2 | 185.2 |
| 48° | 224.6 | 234.1 | 228.9 | 238.6 | 178.5 | 180.8 | 173.2 | 178.7 | 173.3 | 167.2 | 173.5 |
| 49° | 212.1 | 221.3 | 216.1 | 224.8 | 166.0 | 168.5 | 161.3 | 166.6 | 162.3 | 156.1 | 160.6 |
| 50° | 199.7 | 207.1 | 203.3 | 212.1 | 155.0 | 156.5 | 150.0 | 156.3 | 150.6 | 143.9 | 149.9 |
| 51° | 186.5 | 194.4 | 189.4 | 199.5 | 143.6 | 146.3 | 139.7 | 145.4 | 139.8 | 132.4 | 137.6 |
| 52° | 174.4 | 182.0 | 177.0 | 187.1 | 132.9 | 134.9 | 129.4 | 134.9 | 128.8 | 121.7 | 126.4 |
| 53° | 162.7 | 169.5 | 164.6 | 173.8 | 121.8 | 124.8 | 118.8 | 124.4 | 118.5 | 111.9 | 115.8 |
| 54° | 151.3 | 156.5 | 151.6 | 161.7 | 112.1 | 114.2 | 109.7 | 114.1 | 108.0 | 101.5 | 106.4 |
| 55° | 139.2 | 144.9 | 140.2 | 150.2 | 102.0 | 105.2 | 100.0 | 105.1 | 98.9 | 93.5 | 96.3 |
| 56° | 128.6 | 133.7 | 129.3 | 139.0 | 92.2 | 95.5 | 92.1 | 95.6 | 90.4 | 84.4 | 88.1 |
| 57° | 118.5 | 122.1 | 118.7 | 127.3 | 83.9 | 87.5 | 83.4 | 87.8 | 81.6 | 75.9 | 79.1 |
| 58° | 107.9 | 112.0 | 107.8 | 117.0 | 76.0 | 79.6 | 76.1 | 79.1 | 73.4 | 68.0 | 71.6 |
| 59° | 98.5 | 102.4 | 98.3 | 107.1 | 68.3 | 71.8 | 68.0 | 71.6 | 66.4 | 61.2 | 63.9 |
| 60° | 89.6 | 92.2 | 89.2 | 96.9 | 61.1 | 63.9 | 60.7 | 64.1 | 59.0 | 54.2 | 56.5 |
| 61° | 81.1 | 83.5 | 80.7 | 88.0 | 54.0 | 57.4 | 54.4 | 56.9 | 52.1 | 48.2 | 50.2 |
| 62° | 73.0 | 75.2 | 71.7 | 79.7 | 47.4 | 50.7 | 48.1 | 50.9 | 46.4 | 42.0 | 44.2 |
| 63° | 65.0 | 67.4 | 64.2 | 71.7 | 41.9 | 44.5 | 42.2 | 44.8 | 40.8 | 36.3 | 38.5 |
| 64° | 57.8 | 59.6 | 57.2 | 63.5 | 36.4 | 39.0 | 36.8 | 39.2 | 35.2 | 31.1 | 32.8 |
| 65° | 50.5 | 52.7 | 49.9 | 56.7 | 30.8 | 33.7 | 31.4 | 33.7 | 29.6 | 26.5 | 27.7 |
| 66° | 44.2 | 46.3 | 43.6 | 50.1 | 25.8 | 28.5 | 26.3 | 28.4 | 25.1 | 21.9 | 23.4 |
| 67° | 38.3 | 40.4 | 37.9 | 43.4 | 21.5 | 24.1 | 22.0 | 23.9 | 20.5 | 17.9 | 19.0 |
| 68° | 32.9 | 34.8 | 32.5 | 37.7 | 17.2 | 19.5 | 17.6 | 19.5 | 17.1 | 14.5 | 15.5 |
| 69° | 27.4 | 29.1 | 27.0 | 32.4 | 13.7 | 15.8 | 14.2 | 15.6 | 13.3 | 11.2 | 11.8 |
| 70° | 22.7 | 24.4 | 22.6 | 27.4 | 10.5 | 12.4 | 11.0 | 12.1 | 10.1 | 8.0 | 8.7 |
| 71° | 18.3 | 20.0 | 18.4 | 22.6 | 7.5 | 9.2 | 7.8 | 8.9 | 7.2 | 5.6 | 6.1 |
| 72° | 14.5 | 15.6 | 14.6 | 18.4 | 5.0 | 6.4 | 5.2 | 6.3 | 4.7 | 3.4 | 4.1 |
| 73° | 11.0 | 12.2 | 10.9 | 14.6 | 2.9 | 3.9 | 3.0 | 4.0 | 3.0 | 2.0 | 2.2 |
| 74° | 7.7 | 9.1 | 8.0 | 11.3 | 1.4 | 2.3 | 1.6 | 2.1 | 1.5 | 0.8 | 1.1 |
| 75° | 5.2 | 6.4 | 5.6 | 8.1 | 0.6 | 0.8 | 0.6 | 1.0 | 0.7 | 0.4 | 0.4 |
| 76° | 3.2 | 4.1 | 3.5 | 5.7 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.2 | 0.4 |
| 77° | 1.6 | 2.4 | 1.9 | 3.7 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 |
| 78° | 0.8 | 1.2 | 0.9 | 1.9 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 79° | 0.7 | 0.6 | 0.6 | 0.8 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| 80° | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 |
| 81° | 0.4 | 0.5 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 82° | 0.3 | 0.4 | 0.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 83° | 0.2 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 84° | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 86° | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87° | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 89° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 111° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 116° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 118° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 119° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 121° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 122° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 123° | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 124° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| 125° | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| 126° | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 |
| 127° | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 |
| 128° | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 129° | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.1 | 0.1 |
| 130° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.0 | 0.1 | 0.0 | 0.1 |
| 131° | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 |
| 132° | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 133° | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 134° | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 |



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 136° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 |
| 137° | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 138° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 139° | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 140° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 141° | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 142° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.2 | 0.2 | 0.2 |
| 143° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 |
| 144° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 |
| 145° | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 |
| 146° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 |
| 147° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 |
| 148° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 |
| 149° | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| 150° | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 |
| 151° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 152° | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 153° | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 154° | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 155° | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 |
| 156° | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 |
| 157° | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 158° | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 |
| 159° | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 160° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 |
| 161° | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 |
| 162° | 0.3 | 0.2 | 0.2 | 0.2 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 163° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 164° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 |
| 165° | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 166° | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.4 | 0.4 | 0.2 | 0.3 | 0.4 | 0.3 |
| 167° | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 168° | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 169° | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 |
| 170° | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 |
| 171° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 |
| 172° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 173° | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 174° | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 175° | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 |
| 176° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 177° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| 178° | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 |
| 179° | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 |



TEST NUMBER: P851821
CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (continued):

| | | | | | | | | | | | |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
| 180° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|-------|--------|-------|--------|-------|
| 0° | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 |
| 1° | 491.3 | 492.7 | 492.7 | 492.9 | 492.9 | 492.9 |
| 2° | 490.2 | 492.6 | 492.4 | 492.9 | 492.9 | 493.0 |
| 3° | 489.0 | 492.3 | 492.1 | 492.8 | 492.7 | 492.7 |
| 4° | 487.3 | 491.7 | 491.5 | 492.3 | 492.4 | 492.5 |
| 5° | 485.5 | 491.0 | 490.8 | 491.7 | 491.8 | 491.9 |
| 6° | 483.5 | 489.9 | 489.7 | 490.9 | 490.9 | 491.3 |
| 7° | 481.1 | 488.7 | 488.4 | 489.8 | 489.6 | 490.4 |
| 8° | 478.5 | 487.3 | 487.1 | 488.5 | 488.2 | 489.1 |
| 9° | 475.9 | 485.2 | 485.4 | 487.0 | 486.5 | 487.9 |
| 10° | 472.8 | 483.1 | 483.3 | 485.4 | 484.7 | 486.0 |
| 11° | 469.6 | 481.0 | 481.0 | 483.4 | 482.8 | 484.1 |
| 12° | 466.1 | 478.7 | 478.5 | 481.1 | 480.5 | 482.0 |
| 13° | 462.7 | 476.0 | 475.9 | 478.5 | 477.9 | 479.6 |
| 14° | 458.5 | 473.0 | 472.8 | 475.9 | 475.1 | 477.2 |
| 15° | 454.5 | 470.1 | 469.9 | 472.9 | 472.1 | 474.0 |
| 16° | 450.2 | 466.9 | 466.6 | 469.5 | 468.9 | 470.9 |
| 17° | 445.9 | 463.4 | 462.9 | 466.2 | 465.1 | 467.5 |
| 18° | 441.5 | 459.2 | 458.9 | 462.6 | 461.4 | 464.0 |
| 19° | 436.3 | 455.5 | 455.0 | 458.8 | 457.4 | 460.3 |
| 20° | 431.1 | 451.4 | 450.7 | 454.4 | 453.2 | 456.0 |
| 21° | 425.7 | 446.5 | 446.1 | 450.0 | 448.4 | 451.8 |
| 22° | 420.0 | 442.0 | 440.9 | 445.6 | 444.0 | 447.4 |
| 23° | 414.0 | 437.1 | 435.9 | 440.7 | 439.2 | 442.2 |
| 24° | 408.2 | 432.0 | 430.8 | 435.1 | 434.2 | 437.4 |
| 25° | 402.0 | 426.3 | 425.1 | 430.0 | 428.3 | 432.2 |
| 26° | 394.6 | 420.9 | 419.6 | 424.6 | 422.9 | 426.3 |
| 27° | 387.7 | 415.3 | 413.8 | 418.4 | 416.5 | 420.8 |
| 28° | 380.0 | 408.6 | 407.7 | 412.4 | 410.6 | 415.0 |
| 29° | 372.6 | 402.5 | 400.7 | 406.1 | 404.3 | 408.4 |
| 30° | 364.2 | 395.9 | 394.1 | 399.7 | 397.6 | 402.1 |
| 31° | 356.3 | 389.2 | 386.9 | 392.3 | 390.5 | 395.1 |
| 32° | 347.9 | 381.2 | 378.8 | 385.0 | 382.6 | 388.0 |
| 33° | 339.0 | 373.7 | 371.2 | 377.4 | 374.9 | 379.9 |
| 34° | 329.9 | 365.9 | 363.3 | 368.8 | 366.5 | 372.2 |
| 35° | 321.0 | 358.1 | 355.4 | 360.9 | 358.6 | 364.7 |
| 36° | 310.9 | 349.2 | 347.4 | 353.0 | 350.7 | 356.8 |
| 37° | 300.9 | 341.2 | 338.5 | 345.0 | 342.5 | 348.1 |
| 38° | 289.3 | 332.1 | 330.0 | 336.1 | 333.3 | 339.9 |
| 39° | 277.4 | 323.4 | 319.9 | 327.1 | 323.7 | 331.0 |
| 40° | 264.7 | 313.7 | 309.8 | 317.4 | 313.7 | 320.3 |
| 41° | 252.9 | 303.3 | 299.1 | 307.0 | 303.1 | 310.0 |
| 42° | 239.9 | 292.6 | 288.3 | 296.0 | 291.8 | 299.2 |
| 43° | 227.8 | 280.4 | 277.2 | 283.7 | 279.2 | 287.8 |
| 44° | 214.7 | 269.0 | 264.7 | 272.3 | 267.4 | 275.0 |



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|-------|--------|-------|--------|-------|
| 45° | 201.7 | 257.4 | 253.1 | 259.5 | 255.5 | 263.0 |
| 46° | 188.6 | 244.3 | 241.4 | 247.7 | 242.1 | 250.8 |
| 47° | 177.2 | 232.3 | 229.5 | 235.8 | 230.0 | 237.2 |
| 48° | 164.8 | 220.4 | 216.4 | 223.9 | 217.7 | 224.6 |
| 49° | 153.5 | 208.5 | 204.8 | 210.9 | 205.7 | 212.1 |
| 50° | 141.9 | 195.4 | 193.0 | 199.3 | 192.9 | 199.7 |
| 51° | 131.0 | 183.8 | 180.5 | 187.6 | 181.1 | 186.5 |
| 52° | 119.7 | 172.3 | 169.2 | 175.1 | 168.5 | 174.4 |
| 53° | 110.0 | 161.0 | 158.1 | 164.0 | 158.5 | 162.7 |
| 54° | 100.9 | 149.0 | 147.3 | 153.1 | 146.5 | 151.3 |
| 55° | 92.1 | 138.3 | 135.8 | 142.5 | 135.9 | 139.2 |
| 56° | 83.2 | 128.3 | 126.0 | 131.2 | 125.8 | 128.6 |
| 57° | 74.7 | 117.2 | 115.1 | 121.4 | 115.0 | 118.5 |
| 58° | 66.6 | 107.7 | 105.8 | 111.8 | 105.6 | 107.9 |
| 59° | 59.8 | 98.5 | 96.7 | 102.6 | 96.5 | 98.5 |
| 60° | 52.8 | 89.8 | 88.2 | 93.7 | 87.9 | 89.6 |
| 61° | 46.6 | 80.9 | 79.5 | 84.5 | 78.8 | 81.1 |
| 62° | 40.4 | 73.0 | 71.7 | 76.6 | 71.3 | 73.0 |
| 63° | 34.7 | 65.6 | 64.3 | 69.0 | 63.9 | 65.0 |
| 64° | 29.1 | 57.8 | 57.4 | 61.0 | 56.1 | 57.8 |
| 65° | 24.5 | 51.2 | 50.7 | 54.3 | 49.6 | 50.5 |
| 66° | 20.4 | 45.0 | 43.9 | 47.8 | 43.3 | 44.2 |
| 67° | 16.1 | 39.2 | 38.2 | 41.7 | 37.5 | 38.3 |
| 68° | 12.5 | 33.2 | 32.8 | 35.5 | 31.6 | 32.9 |
| 69° | 9.1 | 28.0 | 27.1 | 30.1 | 26.5 | 27.4 |
| 70° | 6.4 | 23.4 | 22.4 | 25.1 | 21.7 | 22.7 |
| 71° | 4.1 | 19.2 | 18.2 | 20.2 | 17.2 | 18.3 |
| 72° | 2.3 | 14.8 | 14.2 | 16.1 | 13.3 | 14.5 |
| 73° | 1.1 | 11.4 | 10.5 | 12.3 | 9.9 | 11.0 |
| 74° | 0.6 | 8.3 | 7.4 | 8.8 | 6.9 | 7.7 |
| 75° | 0.4 | 5.5 | 4.9 | 5.9 | 4.3 | 5.2 |
| 76° | 0.4 | 3.1 | 2.8 | 3.7 | 2.4 | 3.2 |
| 77° | 0.3 | 1.5 | 1.3 | 1.9 | 1.2 | 1.6 |
| 78° | 0.2 | 0.6 | 0.7 | 0.9 | 0.7 | 0.8 |
| 79° | 0.1 | 0.5 | 0.6 | 0.7 | 0.5 | 0.7 |
| 80° | 0.1 | 0.4 | 0.5 | 0.5 | 0.4 | 0.5 |
| 81° | 0.0 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 |
| 82° | 0.0 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 |
| 83° | 0.0 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 |
| 84° | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 |
| 85° | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.2 |
| 86° | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 |
| 87° | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 |
| 88° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 89° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

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 |
| 91° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 111° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 116° | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| 117° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 118° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 119° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| 121° | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 122° | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 123° | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| 124° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| 125° | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 126° | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| 127° | 0.2 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 |
| 128° | 0.2 | 0.0 | 0.1 | 0.0 | 0.2 | 0.1 |
| 129° | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.0 |
| 130° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| 131° | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 0.1 |
| 132° | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.1 |
| 133° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 |
| 134° | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 |



TEST NUMBER: P851821
 CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 135° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 |
| 136° | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |
| 137° | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 |
| 138° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 139° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 140° | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 |
| 141° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 142° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 |
| 143° | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 |
| 144° | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 |
| 145° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 146° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 147° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 148° | 0.3 | 0.3 | 0.3 | 0.1 | 0.2 | 0.3 |
| 149° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 150° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 151° | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 |
| 152° | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 |
| 153° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| 154° | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 |
| 155° | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 |
| 156° | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 157° | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 |
| 158° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| 159° | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 |
| 160° | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 |
| 161° | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| 162° | 0.4 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 |
| 163° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 164° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 165° | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 |
| 166° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 167° | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 |
| 168° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 169° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 170° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 171° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 172° | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 |
| 173° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 174° | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 |
| 175° | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 |
| 176° | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| 177° | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 |
| 178° | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 |
| 179° | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 |



TEST NUMBER: P851821
CATALOG NUMBER: RLFRC4FSMBB-5000K

CANDELA DISTRIBUTION (continued):

| | | | | | | |
|------|--------|------|--------|------|--------|------|
| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
| 180° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |

(END OF REPORT)