

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P245875

Luminaire Tested: **LSR8B15D010 EC8B159727 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B159727 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 995.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

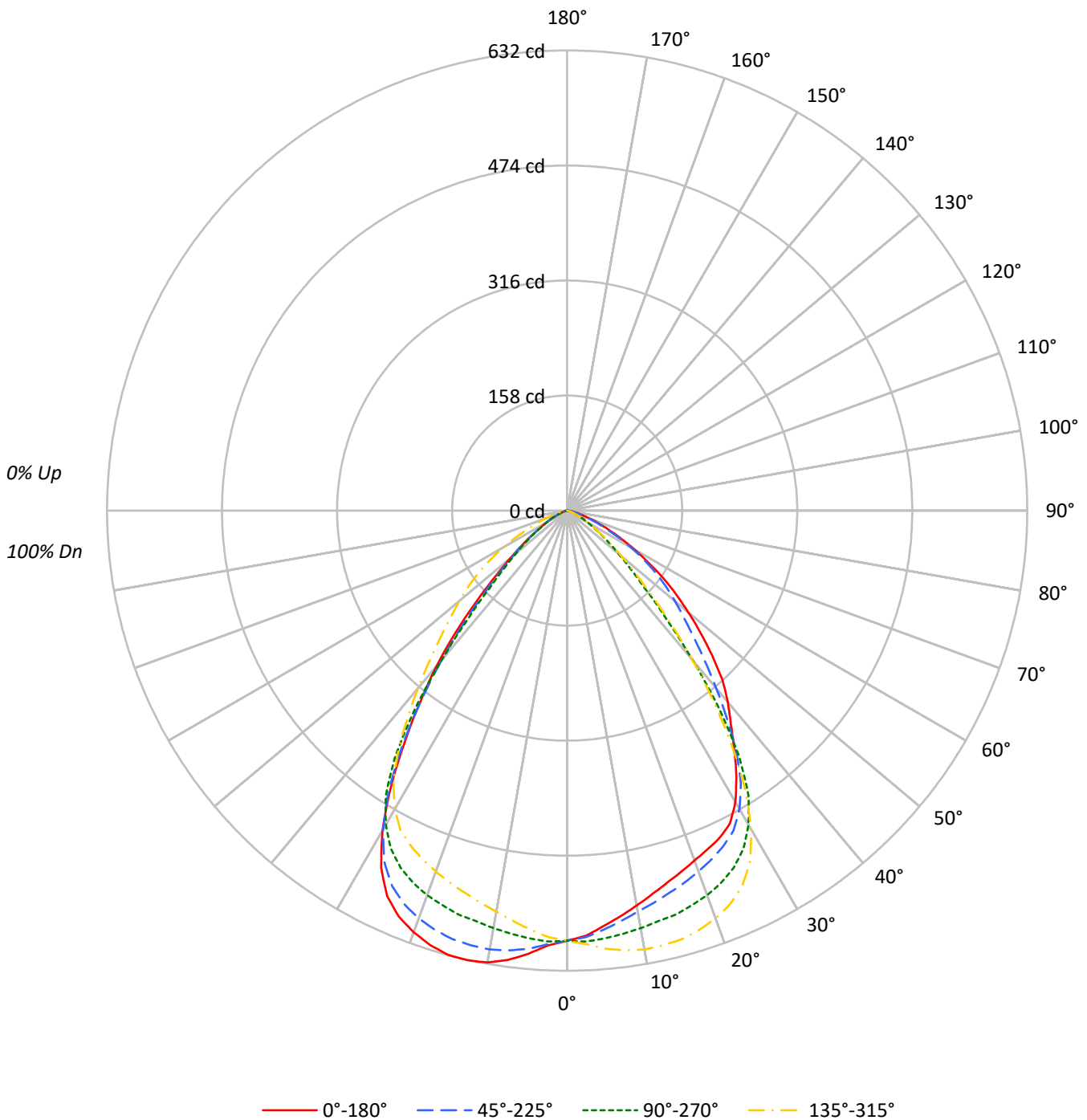
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245875

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Luminous Intensity Polar Plot





TEST NUMBER: P245875

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 94 | 92 | 90 |
| 2 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 88 | 93 | 90 | 86 | 90 | 87 | 84 | 87 | 85 | 83 | 81 |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 70 | 89 | 80 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 |
| 6 | 80 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 55 | 53 |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 48 |
| 8 | 70 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 56 | 50 | 46 | 55 | 49 | 46 | 44 |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 48 | 42 | 39 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | | | | |
|-----|--|-----|------|------|
| | 0° | 90° | 180° | 270° |
| 0° | Luminaire represents a point source (luminous area is zero). | | | |
| 5° | No luminance values can be calculated. | | | |
| 10° | | | | |
| 15° | | | | |
| 20° | | | | |
| 25° | | | | |
| 30° | | | | |
| 35° | | | | |
| 40° | | | | |
| 45° | | | | |
| 50° | | | | |
| 55° | | | | |
| 60° | | | | |
| 65° | | | | |
| 70° | | | | |
| 75° | | | | |
| 80° | | | | |
| 85° | | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.2 | 5.7 |
| 10°-20° | 162.8 | 16.4 |
| 20°-30° | 246.5 | 24.8 |
| 30°-40° | 247.1 | 24.8 |
| 40°-50° | 155.2 | 15.6 |
| 50°-60° | 82.7 | 8.3 |
| 60°-70° | 34.0 | 3.4 |
| 70°-80° | 9.0 | 0.9 |
| 80°-90° | 1.5 | 0.2 |
| 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° | 465.6 | 46.8 |
| 0°-40° | 712.7 | 71.6 |
| 0°-60° | 950.5 | 95.5 |
| 0°-90° | 995.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 995.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 591 | 591 | 591 | 591 | 591 | |
| 5° | 573 | 590 | 611 | 590 | 573 | 54 |
| 15° | 529 | 575 | 632 | 575 | 529 | 150 |
| 25° | 496 | 541 | 585 | 541 | 496 | 227 |
| 35° | 400 | 411 | 390 | 411 | 400 | 250 |
| 45° | 282 | 151 | 174 | 151 | 282 | 216 |
| 55° | 160 | 56 | 59 | 56 | 160 | 143 |
| 65° | 64 | 17 | 16 | 17 | 64 | 66 |
| 75° | 18 | 4 | 3 | 4 | 18 | 20 |
| 85° | 4 | 0 | 0 | 0 | 4 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 584.6 | 584.1 | 583.8 | 584.4 | 584.6 | 585.8 | 585.5 | 586.1 | 586.1 | 586.4 | 586.9 |
| 5° | 572.8 | 572.5 | 572.8 | 572.8 | 574.0 | 575.1 | 574.8 | 575.7 | 576.3 | 577.7 | 578.3 |
| 7.5° | 561.9 | 561.9 | 561.6 | 562.7 | 563.3 | 565.0 | 564.7 | 566.2 | 567.1 | 568.5 | 570.5 |
| 10° | 550.6 | 550.6 | 550.9 | 551.8 | 552.1 | 554.6 | 554.6 | 556.7 | 557.8 | 559.3 | 561.9 |
| 12.5° | 539.7 | 539.7 | 541.4 | 540.8 | 542.0 | 544.0 | 544.8 | 546.9 | 548.6 | 551.5 | 554.1 |
| 15° | 529.3 | 529.3 | 529.8 | 531.3 | 532.1 | 534.7 | 536.2 | 538.5 | 540.5 | 543.4 | 547.2 |
| 17.5° | 520.3 | 520.0 | 520.3 | 522.1 | 523.8 | 526.1 | 527.2 | 530.1 | 532.1 | 535.9 | 539.4 |
| 20° | 511.4 | 512.0 | 512.0 | 513.4 | 514.6 | 517.4 | 518.6 | 521.8 | 524.1 | 527.5 | 531.6 |
| 22.5° | 503.6 | 503.3 | 503.3 | 505.3 | 506.2 | 508.8 | 509.9 | 512.8 | 515.4 | 518.3 | 522.1 |
| 25° | 495.8 | 495.2 | 496.4 | 496.7 | 497.2 | 500.1 | 501.0 | 503.0 | 505.6 | 508.2 | 512.0 |
| 27.5° | 484.3 | 483.7 | 484.0 | 485.1 | 486.0 | 488.3 | 488.9 | 490.9 | 492.9 | 495.2 | 498.4 |
| 30° | 462.1 | 461.5 | 461.2 | 463.2 | 464.1 | 465.8 | 466.7 | 470.1 | 470.7 | 473.3 | 475.6 |
| 32.5° | 432.6 | 432.4 | 432.9 | 434.7 | 435.5 | 437.8 | 439.0 | 441.0 | 442.4 | 443.9 | 446.2 |
| 35° | 399.8 | 399.2 | 399.8 | 401.5 | 401.5 | 403.5 | 404.4 | 405.2 | 405.0 | 405.2 | 404.7 |
| 37.5° | 369.2 | 368.9 | 369.2 | 370.0 | 369.2 | 370.0 | 369.2 | 367.5 | 364.3 | 360.8 | 357.4 |
| 40° | 343.2 | 343.5 | 341.8 | 342.9 | 339.8 | 339.2 | 336.0 | 331.7 | 325.4 | 318.4 | 308.6 |
| 42.5° | 315.5 | 314.7 | 313.5 | 314.1 | 311.5 | 309.5 | 304.3 | 298.8 | 290.7 | 279.2 | 267.4 |
| 45° | 281.5 | 281.2 | 280.6 | 280.4 | 278.6 | 276.6 | 272.3 | 265.9 | 257.0 | 245.2 | 231.0 |
| 47.5° | 248.3 | 247.5 | 247.5 | 247.8 | 245.7 | 245.5 | 242.0 | 236.5 | 228.7 | 217.2 | 202.5 |
| 50° | 216.6 | 216.3 | 216.9 | 218.1 | 216.6 | 216.0 | 213.7 | 210.0 | 203.1 | 193.3 | 179.4 |
| 52.5° | 188.1 | 187.8 | 188.3 | 189.8 | 189.2 | 189.8 | 187.5 | 184.6 | 180.0 | 170.5 | 158.3 |
| 55° | 160.1 | 160.1 | 160.1 | 161.8 | 161.8 | 161.8 | 160.7 | 158.9 | 154.6 | 147.7 | 136.4 |
| 57.5° | 130.9 | 131.2 | 133.0 | 133.3 | 133.0 | 133.5 | 133.3 | 131.5 | 128.6 | 123.7 | 115.1 |
| 60° | 106.4 | 106.4 | 107.3 | 108.2 | 107.9 | 108.2 | 108.2 | 107.3 | 104.4 | 100.4 | 93.5 |
| 62.5° | 84.2 | 85.1 | 84.5 | 85.1 | 86.2 | 85.1 | 84.5 | 83.9 | 81.9 | 79.3 | 73.5 |
| 65° | 63.7 | 64.3 | 64.3 | 64.6 | 64.0 | 64.3 | 63.2 | 62.3 | 61.2 | 58.3 | 54.5 |
| 67.5° | 48.5 | 48.5 | 48.5 | 48.5 | 48.2 | 47.9 | 47.6 | 46.7 | 44.7 | 43.6 | 39.5 |
| 70° | 37.2 | 35.5 | 35.5 | 35.5 | 35.5 | 35.8 | 34.9 | 33.8 | 33.2 | 31.2 | 28.3 |
| 72.5° | 24.8 | 25.4 | 24.8 | 24.8 | 24.2 | 24.5 | 23.4 | 22.8 | 22.2 | 21.1 | 19.3 |
| 75° | 17.9 | 16.4 | 17.0 | 17.3 | 16.4 | 17.0 | 15.9 | 14.7 | 14.7 | 13.8 | 13.0 |
| 77.5° | 11.5 | 11.3 | 11.5 | 11.8 | 11.5 | 11.3 | 10.7 | 10.1 | 10.1 | 9.8 | 8.9 |
| 80° | 8.4 | 8.1 | 8.1 | 8.1 | 7.8 | 8.1 | 7.5 | 7.5 | 6.9 | 6.6 | 6.1 |
| 82.5° | 5.5 | 5.5 | 5.2 | 5.5 | 5.2 | 5.5 | 4.6 | 4.6 | 4.6 | 4.3 | 3.8 |
| 85° | 3.8 | 3.2 | 3.2 | 3.5 | 2.9 | 3.5 | 3.2 | 2.9 | 2.6 | 2.6 | 2.3 |
| 87.5° | 1.7 | 2.0 | 1.7 | 2.0 | 1.7 | 1.7 | 2.0 | 1.7 | 1.7 | 1.2 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 587.8 | 588.1 | 588.1 | 589.3 | 589.8 | 590.1 | 590.1 | 592.4 | 591.6 | 592.1 | 592.7 |
| 5° | 579.5 | 581.2 | 581.8 | 581.8 | 584.9 | 586.1 | 587.2 | 589.8 | 590.1 | 591.9 | 593.9 |
| 7.5° | 571.4 | 573.4 | 574.6 | 577.1 | 579.2 | 581.2 | 584.6 | 586.4 | 588.1 | 590.4 | 593.0 |
| 10° | 563.6 | 565.9 | 568.2 | 570.2 | 573.4 | 576.0 | 578.3 | 582.3 | 584.4 | 587.5 | 591.0 |
| 12.5° | 556.1 | 559.3 | 561.3 | 564.7 | 568.2 | 570.5 | 574.0 | 577.7 | 580.9 | 584.1 | 588.1 |
| 15° | 549.5 | 553.2 | 555.5 | 559.3 | 563.0 | 566.2 | 569.9 | 574.6 | 576.9 | 580.6 | 584.4 |
| 17.5° | 542.2 | 546.3 | 549.2 | 552.6 | 557.2 | 560.7 | 563.9 | 568.5 | 571.4 | 575.4 | 579.7 |
| 20° | 534.7 | 538.8 | 542.2 | 545.7 | 550.3 | 553.8 | 557.5 | 562.1 | 565.3 | 569.4 | 572.8 |
| 22.5° | 525.8 | 529.6 | 533.3 | 537.3 | 542.0 | 544.8 | 549.2 | 553.2 | 556.7 | 560.4 | 563.9 |
| 25° | 514.3 | 518.9 | 521.8 | 525.5 | 529.3 | 532.4 | 537.1 | 541.1 | 544.0 | 547.4 | 550.6 |
| 27.5° | 500.7 | 504.2 | 506.5 | 509.7 | 513.4 | 516.3 | 519.7 | 523.8 | 526.7 | 529.8 | 532.1 |
| 30° | 477.6 | 480.8 | 482.8 | 485.1 | 488.9 | 491.5 | 494.4 | 498.1 | 500.1 | 502.4 | 504.5 |
| 32.5° | 447.3 | 449.9 | 451.1 | 452.8 | 455.4 | 458.0 | 460.3 | 463.5 | 464.4 | 465.8 | 465.8 |
| 35° | 403.5 | 404.1 | 403.8 | 404.4 | 405.5 | 407.0 | 409.0 | 411.0 | 412.2 | 412.2 | 411.3 |
| 37.5° | 352.2 | 348.7 | 345.0 | 342.1 | 341.2 | 340.6 | 341.8 | 342.6 | 343.8 | 344.4 | 342.9 |
| 40° | 298.8 | 291.0 | 282.7 | 275.2 | 270.0 | 267.7 | 266.8 | 267.4 | 267.4 | 269.4 | 269.4 |
| 42.5° | 253.0 | 240.8 | 228.4 | 217.2 | 209.7 | 203.9 | 201.3 | 201.3 | 201.6 | 203.1 | 203.9 |
| 45° | 214.9 | 199.6 | 185.2 | 172.8 | 162.4 | 154.9 | 151.4 | 150.6 | 150.3 | 150.8 | 152.9 |
| 47.5° | 185.7 | 169.9 | 154.9 | 139.6 | 128.6 | 121.1 | 118.0 | 116.8 | 115.7 | 116.8 | 117.1 |
| 50° | 163.0 | 146.5 | 130.7 | 115.4 | 103.8 | 97.2 | 93.2 | 91.4 | 91.1 | 91.1 | 91.7 |
| 52.5° | 142.2 | 126.9 | 111.1 | 95.5 | 83.4 | 77.0 | 73.3 | 72.4 | 71.2 | 72.4 | 72.4 |
| 55° | 122.6 | 107.3 | 91.7 | 77.0 | 66.9 | 60.3 | 56.8 | 55.7 | 55.1 | 56.0 | 56.0 |
| 57.5° | 101.2 | 88.3 | 73.8 | 60.6 | 50.5 | 45.9 | 43.3 | 41.8 | 41.5 | 42.1 | 41.5 |
| 60° | 83.1 | 72.1 | 59.7 | 47.6 | 39.8 | 34.9 | 32.9 | 32.3 | 31.7 | 32.3 | 32.3 |
| 62.5° | 65.8 | 56.5 | 46.4 | 37.2 | 30.6 | 27.1 | 24.8 | 24.8 | 24.5 | 24.5 | 24.8 |
| 65° | 48.7 | 41.5 | 34.3 | 26.5 | 21.3 | 18.7 | 17.0 | 17.0 | 16.7 | 17.0 | 16.7 |
| 67.5° | 35.5 | 30.6 | 24.8 | 19.3 | 15.3 | 13.8 | 12.7 | 11.8 | 12.4 | 11.8 | 11.5 |
| 70° | 26.0 | 21.9 | 17.9 | 14.7 | 11.8 | 10.4 | 9.5 | 9.2 | 8.7 | 8.7 | 8.7 |
| 72.5° | 17.3 | 14.7 | 12.1 | 9.5 | 7.8 | 6.3 | 6.1 | 5.5 | 4.9 | 5.2 | 5.8 |
| 75° | 11.5 | 9.8 | 8.7 | 6.9 | 5.2 | 5.2 | 3.5 | 3.5 | 2.9 | 3.5 | 2.6 |
| 77.5° | 8.1 | 6.6 | 5.2 | 4.3 | 3.5 | 3.2 | 2.3 | 2.3 | 2.0 | 2.0 | 2.0 |
| 80° | 5.8 | 4.9 | 3.8 | 3.2 | 2.3 | 2.3 | 2.0 | 1.7 | 1.4 | 1.4 | 1.7 |
| 82.5° | 3.5 | 2.6 | 2.6 | 2.3 | 1.4 | 1.2 | 0.9 | 1.2 | 0.6 | 0.6 | 0.6 |
| 85° | 2.0 | 1.7 | 1.4 | 0.9 | 0.6 | 0.6 | 0.3 | 0.0 | 0.3 | 0.3 | 0.0 |
| 87.5° | 1.2 | 0.6 | 0.6 | 0.3 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 594.2 | 593.9 | 594.5 | 594.5 | 596.2 | 595.9 | 596.8 | 596.8 | 596.2 | 596.5 | 597.6 |
| 5° | 596.2 | 597.1 | 598.8 | 600.2 | 602.8 | 604.0 | 605.4 | 606.9 | 607.1 | 608.0 | 608.9 |
| 7.5° | 596.2 | 599.1 | 601.1 | 603.7 | 607.1 | 609.2 | 612.3 | 614.9 | 616.1 | 617.5 | 619.3 |
| 10° | 595.0 | 597.9 | 601.7 | 604.5 | 608.9 | 612.0 | 615.2 | 619.3 | 621.0 | 623.3 | 625.6 |
| 12.5° | 592.7 | 595.9 | 599.9 | 603.7 | 608.6 | 611.5 | 615.5 | 619.3 | 621.9 | 625.0 | 627.6 |
| 15° | 589.3 | 593.0 | 596.8 | 600.5 | 605.7 | 609.2 | 612.9 | 617.2 | 619.8 | 623.3 | 625.6 |
| 17.5° | 583.8 | 587.8 | 591.3 | 594.7 | 599.6 | 603.7 | 607.1 | 611.2 | 613.8 | 616.7 | 619.8 |
| 20° | 577.1 | 580.9 | 584.6 | 587.5 | 592.4 | 595.9 | 599.6 | 603.4 | 605.4 | 606.0 | 610.9 |
| 22.5° | 568.8 | 571.4 | 574.3 | 578.9 | 581.8 | 584.9 | 588.4 | 591.9 | 593.9 | 597.1 | 598.8 |
| 25° | 554.9 | 557.5 | 560.7 | 562.7 | 566.2 | 568.8 | 572.2 | 576.0 | 577.1 | 579.5 | 581.2 |
| 27.5° | 535.6 | 537.1 | 538.5 | 540.2 | 542.2 | 543.7 | 545.7 | 547.4 | 548.6 | 549.7 | 550.9 |
| 30° | 505.0 | 505.0 | 505.0 | 503.9 | 504.7 | 505.6 | 505.9 | 505.6 | 505.6 | 505.3 | 505.3 |
| 32.5° | 464.7 | 462.4 | 459.8 | 457.4 | 456.6 | 455.4 | 454.8 | 454.0 | 452.5 | 451.7 | 452.0 |
| 35° | 410.1 | 405.0 | 401.8 | 398.9 | 396.6 | 394.9 | 394.0 | 393.1 | 392.8 | 391.7 | 390.5 |
| 37.5° | 342.1 | 338.3 | 336.0 | 334.3 | 332.3 | 330.5 | 330.8 | 331.1 | 332.0 | 331.4 | 331.7 |
| 40° | 270.0 | 269.1 | 270.0 | 267.9 | 267.4 | 267.9 | 269.4 | 271.4 | 272.6 | 273.7 | 275.7 |
| 42.5° | 205.4 | 206.8 | 208.8 | 208.8 | 209.7 | 210.8 | 212.6 | 215.7 | 217.5 | 219.5 | 221.8 |
| 45° | 154.6 | 156.3 | 158.9 | 159.8 | 160.4 | 161.8 | 163.8 | 166.4 | 167.6 | 169.3 | 171.3 |
| 47.5° | 119.1 | 120.3 | 121.7 | 123.2 | 124.6 | 125.2 | 127.2 | 127.2 | 128.6 | 129.8 | 130.4 |
| 50° | 92.9 | 94.0 | 95.2 | 96.0 | 96.6 | 97.5 | 98.1 | 98.9 | 99.2 | 99.8 | 100.1 |
| 52.5° | 72.7 | 74.1 | 74.1 | 74.7 | 75.6 | 76.4 | 76.1 | 76.4 | 76.7 | 76.7 | 77.6 |
| 55° | 56.8 | 56.8 | 57.7 | 57.7 | 58.3 | 58.0 | 58.3 | 58.3 | 58.3 | 58.3 | 58.6 |
| 57.5° | 42.4 | 42.7 | 43.6 | 43.0 | 42.7 | 43.3 | 42.7 | 43.3 | 43.0 | 43.6 | 42.7 |
| 60° | 32.6 | 32.6 | 32.9 | 32.9 | 33.2 | 33.2 | 33.2 | 32.9 | 32.9 | 32.6 | 32.6 |
| 62.5° | 24.5 | 24.8 | 25.1 | 24.8 | 24.8 | 24.8 | 24.5 | 24.5 | 24.2 | 23.9 | 23.9 |
| 65° | 16.4 | 16.2 | 16.7 | 16.2 | 16.4 | 16.4 | 16.2 | 16.4 | 15.6 | 15.9 | 15.6 |
| 67.5° | 11.8 | 11.5 | 11.3 | 11.5 | 11.3 | 11.0 | 11.0 | 11.3 | 11.5 | 10.7 | 10.7 |
| 70° | 7.8 | 8.1 | 7.8 | 8.1 | 8.4 | 8.4 | 8.1 | 7.8 | 8.1 | 7.5 | 7.8 |
| 72.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 5.2 | 5.2 | 5.2 | 4.6 | 4.6 | 4.3 |
| 75° | 2.3 | 3.2 | 2.6 | 2.3 | 3.2 | 3.2 | 2.9 | 2.9 | 2.6 | 2.6 | 2.6 |
| 77.5° | 2.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.4 | 1.7 | 1.4 |
| 80° | 1.2 | 1.2 | 1.2 | 0.9 | 1.2 | 1.2 | 1.4 | 1.2 | 1.2 | 0.9 | 1.4 |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.0 | 0.3 | 0.6 | 0.6 | 0.3 | 0.6 | 0.6 | 0.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P245875

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 597.3 | 597.1 | 597.3 | 597.6 | 597.3 | 597.1 | 597.3 | 597.6 | 596.5 | 596.2 | 596.8 |
| 5° | 610.0 | 610.0 | 610.6 | 610.9 | 610.6 | 610.0 | 610.0 | 608.9 | 608.0 | 607.1 | 606.9 |
| 7.5° | 621.0 | 621.6 | 622.1 | 622.4 | 622.1 | 621.6 | 621.0 | 619.3 | 617.5 | 616.1 | 614.9 |
| 10° | 627.6 | 628.5 | 629.6 | 630.2 | 629.6 | 628.5 | 627.6 | 625.6 | 623.3 | 621.0 | 619.3 |
| 12.5° | 630.5 | 631.4 | 632.8 | 632.5 | 632.8 | 631.4 | 630.5 | 627.6 | 625.0 | 621.9 | 619.3 |
| 15° | 628.5 | 629.6 | 631.1 | 631.7 | 631.1 | 629.6 | 628.5 | 625.6 | 623.3 | 619.8 | 617.2 |
| 17.5° | 622.1 | 623.9 | 624.7 | 625.6 | 624.7 | 623.9 | 622.1 | 619.8 | 616.7 | 613.8 | 611.2 |
| 20° | 613.5 | 614.6 | 615.8 | 616.1 | 615.8 | 614.6 | 613.5 | 610.9 | 606.0 | 605.4 | 603.4 |
| 22.5° | 601.1 | 602.0 | 604.5 | 603.7 | 604.5 | 602.0 | 601.1 | 598.8 | 597.1 | 593.9 | 591.9 |
| 25° | 583.2 | 584.1 | 584.4 | 584.6 | 584.4 | 584.1 | 583.2 | 581.2 | 579.5 | 577.1 | 576.0 |
| 27.5° | 552.3 | 552.3 | 552.9 | 553.2 | 552.9 | 552.3 | 552.3 | 550.9 | 549.7 | 548.6 | 547.4 |
| 30° | 505.6 | 505.6 | 505.6 | 507.1 | 505.6 | 505.6 | 505.6 | 505.3 | 505.3 | 505.6 | 505.6 |
| 32.5° | 451.7 | 451.1 | 450.5 | 451.1 | 450.5 | 451.1 | 451.7 | 452.0 | 451.7 | 452.5 | 454.0 |
| 35° | 390.5 | 390.2 | 391.1 | 390.0 | 391.1 | 390.2 | 390.5 | 390.5 | 391.7 | 392.8 | 393.1 |
| 37.5° | 332.0 | 331.4 | 332.6 | 331.4 | 332.6 | 331.4 | 332.0 | 331.7 | 331.4 | 332.0 | 331.1 |
| 40° | 276.3 | 276.9 | 276.9 | 279.2 | 276.9 | 276.9 | 276.3 | 275.7 | 273.7 | 272.6 | 271.4 |
| 42.5° | 223.0 | 224.7 | 224.1 | 225.8 | 224.1 | 224.7 | 223.0 | 221.8 | 219.5 | 217.5 | 215.7 |
| 45° | 172.5 | 173.6 | 173.6 | 174.2 | 173.6 | 173.6 | 172.5 | 171.3 | 169.3 | 167.6 | 166.4 |
| 47.5° | 132.4 | 132.4 | 132.4 | 132.7 | 132.4 | 132.4 | 132.4 | 130.4 | 129.8 | 128.6 | 127.2 |
| 50° | 100.7 | 100.9 | 101.2 | 101.5 | 101.2 | 100.9 | 100.7 | 100.1 | 99.8 | 99.2 | 98.9 |
| 52.5° | 77.3 | 77.6 | 77.0 | 77.6 | 77.0 | 77.6 | 77.3 | 77.6 | 76.7 | 76.7 | 76.4 |
| 55° | 58.6 | 58.3 | 58.6 | 58.8 | 58.6 | 58.3 | 58.6 | 58.6 | 58.3 | 58.3 | 58.3 |
| 57.5° | 43.0 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 43.0 | 42.7 | 43.6 | 43.0 | 43.3 |
| 60° | 32.0 | 32.3 | 32.3 | 32.6 | 32.3 | 32.3 | 32.0 | 32.6 | 32.6 | 32.9 | 32.9 |
| 62.5° | 23.6 | 24.5 | 23.9 | 24.5 | 23.9 | 24.5 | 23.6 | 23.9 | 23.9 | 24.2 | 24.5 |
| 65° | 15.3 | 15.3 | 15.3 | 15.6 | 15.3 | 15.3 | 15.3 | 15.6 | 15.9 | 15.6 | 16.4 |
| 67.5° | 10.4 | 10.7 | 11.3 | 11.0 | 11.3 | 10.7 | 10.4 | 10.7 | 10.7 | 11.5 | 11.3 |
| 70° | 8.4 | 7.5 | 7.5 | 8.4 | 7.5 | 7.5 | 8.4 | 7.8 | 7.5 | 8.1 | 7.8 |
| 72.5° | 4.9 | 4.3 | 4.9 | 4.9 | 4.9 | 4.3 | 4.9 | 4.3 | 4.6 | 4.6 | 5.2 |
| 75° | 2.6 | 2.3 | 2.0 | 2.9 | 2.0 | 2.3 | 2.6 | 2.6 | 2.6 | 2.6 | 2.9 |
| 77.5° | 1.7 | 1.4 | 2.0 | 2.0 | 2.0 | 1.4 | 1.7 | 1.4 | 1.7 | 1.4 | 1.7 |
| 80° | 0.9 | 1.2 | 0.9 | 1.4 | 0.9 | 1.2 | 0.9 | 1.4 | 0.9 | 1.2 | 1.2 |
| 82.5° | 0.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.3 | 0.3 | 0.6 | 0.6 | 0.3 |
| 85° | 0.0 | 0.6 | 0.3 | 0.3 | 0.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P245875

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 596.8 | 595.9 | 596.2 | 594.5 | 594.5 | 593.9 | 594.2 | 592.7 | 592.1 | 591.6 | 592.4 |
| 5° | 605.4 | 604.0 | 602.8 | 600.2 | 598.8 | 597.1 | 596.2 | 593.9 | 591.9 | 590.1 | 589.8 |
| 7.5° | 612.3 | 609.2 | 607.1 | 603.7 | 601.1 | 599.1 | 596.2 | 593.0 | 590.4 | 588.1 | 586.4 |
| 10° | 615.2 | 612.0 | 608.9 | 604.5 | 601.7 | 597.9 | 595.0 | 591.0 | 587.5 | 584.4 | 582.3 |
| 12.5° | 615.5 | 611.5 | 608.6 | 603.7 | 599.9 | 595.9 | 592.7 | 588.1 | 584.1 | 580.9 | 577.7 |
| 15° | 612.9 | 609.2 | 605.7 | 600.5 | 596.8 | 593.0 | 589.3 | 584.4 | 580.6 | 576.9 | 574.6 |
| 17.5° | 607.1 | 603.7 | 599.6 | 594.7 | 591.3 | 587.8 | 583.8 | 579.7 | 575.4 | 571.4 | 568.5 |
| 20° | 599.6 | 595.9 | 592.4 | 587.5 | 584.6 | 580.9 | 577.1 | 572.8 | 569.4 | 565.3 | 562.1 |
| 22.5° | 588.4 | 584.9 | 581.8 | 578.9 | 574.3 | 571.4 | 568.8 | 563.9 | 560.4 | 556.7 | 553.2 |
| 25° | 572.2 | 568.8 | 566.2 | 562.7 | 560.7 | 557.5 | 554.9 | 550.6 | 547.4 | 544.0 | 541.1 |
| 27.5° | 545.7 | 543.7 | 542.2 | 540.2 | 538.5 | 537.1 | 535.6 | 532.1 | 529.8 | 526.7 | 523.8 |
| 30° | 505.9 | 505.6 | 504.7 | 503.9 | 505.0 | 505.0 | 505.0 | 504.5 | 502.4 | 500.1 | 498.1 |
| 32.5° | 454.8 | 455.4 | 456.6 | 457.4 | 459.8 | 462.4 | 464.7 | 465.8 | 465.8 | 464.4 | 463.5 |
| 35° | 394.0 | 394.9 | 396.6 | 398.9 | 401.8 | 405.0 | 410.1 | 411.3 | 412.2 | 412.2 | 411.0 |
| 37.5° | 330.8 | 330.5 | 332.3 | 334.3 | 336.0 | 338.3 | 342.1 | 342.9 | 344.4 | 343.8 | 342.6 |
| 40° | 269.4 | 267.9 | 267.4 | 267.9 | 270.0 | 269.1 | 270.0 | 269.4 | 269.4 | 267.4 | 267.4 |
| 42.5° | 212.6 | 210.8 | 209.7 | 208.8 | 208.8 | 206.8 | 205.4 | 203.9 | 203.1 | 201.6 | 201.3 |
| 45° | 163.8 | 161.8 | 160.4 | 159.8 | 158.9 | 156.3 | 154.6 | 152.9 | 150.8 | 150.3 | 150.6 |
| 47.5° | 127.2 | 125.2 | 124.6 | 123.2 | 121.7 | 120.3 | 119.1 | 117.1 | 116.8 | 115.7 | 116.8 |
| 50° | 98.1 | 97.5 | 96.6 | 96.0 | 95.2 | 94.0 | 92.9 | 91.7 | 91.1 | 91.1 | 91.4 |
| 52.5° | 76.1 | 76.4 | 75.6 | 74.7 | 74.1 | 74.1 | 72.7 | 72.4 | 72.4 | 71.2 | 72.4 |
| 55° | 58.3 | 58.0 | 58.3 | 57.7 | 57.7 | 56.8 | 56.8 | 56.0 | 56.0 | 55.1 | 55.7 |
| 57.5° | 42.7 | 43.3 | 42.7 | 43.0 | 43.6 | 42.7 | 42.4 | 41.5 | 42.1 | 41.5 | 41.8 |
| 60° | 33.2 | 33.2 | 33.2 | 32.9 | 32.9 | 32.6 | 32.6 | 32.3 | 32.3 | 31.7 | 32.3 |
| 62.5° | 24.5 | 24.8 | 24.8 | 24.8 | 25.1 | 24.8 | 24.5 | 24.8 | 24.5 | 24.5 | 24.8 |
| 65° | 16.2 | 16.4 | 16.4 | 16.2 | 16.7 | 16.2 | 16.4 | 16.7 | 17.0 | 16.7 | 17.0 |
| 67.5° | 11.0 | 11.0 | 11.3 | 11.5 | 11.3 | 11.5 | 11.8 | 11.5 | 11.8 | 12.4 | 11.8 |
| 70° | 8.1 | 8.4 | 8.4 | 8.1 | 7.8 | 8.1 | 7.8 | 8.7 | 8.7 | 8.7 | 9.2 |
| 72.5° | 5.2 | 5.2 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 5.8 | 5.2 | 4.9 | 5.5 |
| 75° | 2.9 | 3.2 | 3.2 | 2.3 | 2.6 | 3.2 | 2.3 | 2.6 | 3.5 | 2.9 | 3.5 |
| 77.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.3 | 2.0 | 2.0 | 2.0 | 2.3 |
| 80° | 1.4 | 1.2 | 1.2 | 0.9 | 1.2 | 1.2 | 1.2 | 1.7 | 1.4 | 1.4 | 1.7 |
| 82.5° | 0.6 | 0.6 | 0.3 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P245875

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 590.1 | 590.1 | 589.8 | 589.3 | 588.1 | 588.1 | 587.8 | 586.9 | 586.4 | 586.1 | 586.1 |
| 5° | 587.2 | 586.1 | 584.9 | 581.8 | 581.8 | 581.2 | 579.5 | 578.3 | 577.7 | 576.3 | 575.7 |
| 7.5° | 584.6 | 581.2 | 579.2 | 577.1 | 574.6 | 573.4 | 571.4 | 570.5 | 568.5 | 567.1 | 566.2 |
| 10° | 578.3 | 576.0 | 573.4 | 570.2 | 568.2 | 565.9 | 563.6 | 561.9 | 559.3 | 557.8 | 556.7 |
| 12.5° | 574.0 | 570.5 | 568.2 | 564.7 | 561.3 | 559.3 | 556.1 | 554.1 | 551.5 | 548.6 | 546.9 |
| 15° | 569.9 | 566.2 | 563.0 | 559.3 | 555.5 | 553.2 | 549.5 | 547.2 | 543.4 | 540.5 | 538.5 |
| 17.5° | 563.9 | 560.7 | 557.2 | 552.6 | 549.2 | 546.3 | 542.2 | 539.4 | 535.9 | 532.1 | 530.1 |
| 20° | 557.5 | 553.8 | 550.3 | 545.7 | 542.2 | 538.8 | 534.7 | 531.6 | 527.5 | 524.1 | 521.8 |
| 22.5° | 549.2 | 544.8 | 542.0 | 537.3 | 533.3 | 529.6 | 525.8 | 522.1 | 518.3 | 515.4 | 512.8 |
| 25° | 537.1 | 532.4 | 529.3 | 525.5 | 521.8 | 518.9 | 514.3 | 512.0 | 508.2 | 505.6 | 503.0 |
| 27.5° | 519.7 | 516.3 | 513.4 | 509.7 | 506.5 | 504.2 | 500.7 | 498.4 | 495.2 | 492.9 | 490.9 |
| 30° | 494.4 | 491.5 | 488.9 | 485.1 | 482.8 | 480.8 | 477.6 | 475.6 | 473.3 | 470.7 | 470.1 |
| 32.5° | 460.3 | 458.0 | 455.4 | 452.8 | 451.1 | 449.9 | 447.3 | 446.2 | 443.9 | 442.4 | 441.0 |
| 35° | 409.0 | 407.0 | 405.5 | 404.4 | 403.8 | 404.1 | 403.5 | 404.7 | 405.2 | 405.0 | 405.2 |
| 37.5° | 341.8 | 340.6 | 341.2 | 342.1 | 345.0 | 348.7 | 352.2 | 357.4 | 360.8 | 364.3 | 367.5 |
| 40° | 266.8 | 267.7 | 270.0 | 275.2 | 282.7 | 291.0 | 298.8 | 308.6 | 318.4 | 325.4 | 331.7 |
| 42.5° | 201.3 | 203.9 | 209.7 | 217.2 | 228.4 | 240.8 | 253.0 | 267.4 | 279.2 | 290.7 | 298.8 |
| 45° | 151.4 | 154.9 | 162.4 | 172.8 | 185.2 | 199.6 | 214.9 | 231.0 | 245.2 | 257.0 | 265.9 |
| 47.5° | 118.0 | 121.1 | 128.6 | 139.6 | 154.9 | 169.9 | 185.7 | 202.5 | 217.2 | 228.7 | 236.5 |
| 50° | 93.2 | 97.2 | 103.8 | 115.4 | 130.7 | 146.5 | 163.0 | 179.4 | 193.3 | 203.1 | 210.0 |
| 52.5° | 73.3 | 77.0 | 83.4 | 95.5 | 111.1 | 126.9 | 142.2 | 158.3 | 170.5 | 180.0 | 184.6 |
| 55° | 56.8 | 60.3 | 66.9 | 77.0 | 91.7 | 107.3 | 122.6 | 136.4 | 147.7 | 154.6 | 158.9 |
| 57.5° | 43.3 | 45.9 | 50.5 | 60.6 | 73.8 | 88.3 | 101.2 | 115.1 | 123.7 | 128.6 | 131.5 |
| 60° | 32.9 | 34.9 | 39.8 | 47.6 | 59.7 | 72.1 | 83.1 | 93.5 | 100.4 | 104.4 | 107.3 |
| 62.5° | 24.8 | 27.1 | 30.6 | 37.2 | 46.4 | 56.5 | 65.8 | 73.5 | 79.3 | 81.9 | 83.9 |
| 65° | 17.0 | 18.7 | 21.3 | 26.5 | 34.3 | 41.5 | 48.7 | 54.5 | 58.3 | 61.2 | 62.3 |
| 67.5° | 12.7 | 13.8 | 15.3 | 19.3 | 24.8 | 30.6 | 35.5 | 39.5 | 43.6 | 44.7 | 46.7 |
| 70° | 9.5 | 10.4 | 11.8 | 14.7 | 17.9 | 21.9 | 26.0 | 28.3 | 31.2 | 33.2 | 33.8 |
| 72.5° | 6.1 | 6.3 | 7.8 | 9.5 | 12.1 | 14.7 | 17.3 | 19.3 | 21.1 | 22.2 | 22.8 |
| 75° | 3.5 | 5.2 | 5.2 | 6.9 | 8.7 | 9.8 | 11.5 | 13.0 | 13.8 | 14.7 | 14.7 |
| 77.5° | 2.3 | 3.2 | 3.5 | 4.3 | 5.2 | 6.6 | 8.1 | 8.9 | 9.8 | 10.1 | 10.1 |
| 80° | 2.0 | 2.3 | 2.3 | 3.2 | 3.8 | 4.9 | 5.8 | 6.1 | 6.6 | 6.9 | 7.5 |
| 82.5° | 0.9 | 1.2 | 1.4 | 2.3 | 2.6 | 2.6 | 3.5 | 3.8 | 4.3 | 4.6 | 4.6 |
| 85° | 0.3 | 0.6 | 0.6 | 0.9 | 1.4 | 1.7 | 2.0 | 2.3 | 2.6 | 2.6 | 2.9 |
| 87.5° | 0.3 | 0.3 | 0.0 | 0.3 | 0.6 | 0.6 | 1.2 | 1.2 | 1.2 | 1.7 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P245875

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 585.5 | 585.8 | 584.6 | 584.4 | 583.8 | 584.1 | 584.6 |
| 5° | 574.8 | 575.1 | 574.0 | 572.8 | 572.8 | 572.5 | 572.8 |
| 7.5° | 564.7 | 565.0 | 563.3 | 562.7 | 561.6 | 561.9 | 561.9 |
| 10° | 554.6 | 554.6 | 552.1 | 551.8 | 550.9 | 550.6 | 550.6 |
| 12.5° | 544.8 | 544.0 | 542.0 | 540.8 | 541.4 | 539.7 | 539.7 |
| 15° | 536.2 | 534.7 | 532.1 | 531.3 | 529.8 | 529.3 | 529.3 |
| 17.5° | 527.2 | 526.1 | 523.8 | 522.1 | 520.3 | 520.0 | 520.3 |
| 20° | 518.6 | 517.4 | 514.6 | 513.4 | 512.0 | 512.0 | 511.4 |
| 22.5° | 509.9 | 508.8 | 506.2 | 505.3 | 503.3 | 503.3 | 503.6 |
| 25° | 501.0 | 500.1 | 497.2 | 496.7 | 496.4 | 495.2 | 495.8 |
| 27.5° | 488.9 | 488.3 | 486.0 | 485.1 | 484.0 | 483.7 | 484.3 |
| 30° | 466.7 | 465.8 | 464.1 | 463.2 | 461.2 | 461.5 | 462.1 |
| 32.5° | 439.0 | 437.8 | 435.5 | 434.7 | 432.9 | 432.4 | 432.6 |
| 35° | 404.4 | 403.5 | 401.5 | 401.5 | 399.8 | 399.2 | 399.8 |
| 37.5° | 369.2 | 370.0 | 369.2 | 370.0 | 369.2 | 368.9 | 369.2 |
| 40° | 336.0 | 339.2 | 339.8 | 342.9 | 341.8 | 343.5 | 343.2 |
| 42.5° | 304.3 | 309.5 | 311.5 | 314.1 | 313.5 | 314.7 | 315.5 |
| 45° | 272.3 | 276.6 | 278.6 | 280.4 | 280.6 | 281.2 | 281.5 |
| 47.5° | 242.0 | 245.5 | 245.7 | 247.8 | 247.5 | 247.5 | 248.3 |
| 50° | 213.7 | 216.0 | 216.6 | 218.1 | 216.9 | 216.3 | 216.6 |
| 52.5° | 187.5 | 189.8 | 189.2 | 189.8 | 188.3 | 187.8 | 188.1 |
| 55° | 160.7 | 161.8 | 161.8 | 161.8 | 160.1 | 160.1 | 160.1 |
| 57.5° | 133.3 | 133.5 | 133.0 | 133.3 | 133.0 | 131.2 | 130.9 |
| 60° | 108.2 | 108.2 | 107.9 | 108.2 | 107.3 | 106.4 | 106.4 |
| 62.5° | 84.5 | 85.1 | 86.2 | 85.1 | 84.5 | 85.1 | 84.2 |
| 65° | 63.2 | 64.3 | 64.0 | 64.6 | 64.3 | 64.3 | 63.7 |
| 67.5° | 47.6 | 47.9 | 48.2 | 48.5 | 48.5 | 48.5 | 48.5 |
| 70° | 34.9 | 35.8 | 35.5 | 35.5 | 35.5 | 35.5 | 37.2 |
| 72.5° | 23.4 | 24.5 | 24.2 | 24.8 | 24.8 | 25.4 | 24.8 |
| 75° | 15.9 | 17.0 | 16.4 | 17.3 | 17.0 | 16.4 | 17.9 |
| 77.5° | 10.7 | 11.3 | 11.5 | 11.8 | 11.5 | 11.3 | 11.5 |
| 80° | 7.5 | 8.1 | 7.8 | 8.1 | 8.1 | 8.1 | 8.4 |
| 82.5° | 4.6 | 5.5 | 5.2 | 5.5 | 5.2 | 5.5 | 5.5 |
| 85° | 3.2 | 3.5 | 2.9 | 3.5 | 3.2 | 3.2 | 3.8 |
| 87.5° | 2.0 | 1.7 | 1.7 | 2.0 | 1.7 | 2.0 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)