

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: NEO-RAY

Report Number: P243100

Luminaire Tested: **S121RDR-H305D935-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-67)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S121RDR-H305D935-X4F0-XX-UDD-A-W
Description: DEFINE 1 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 842.6 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1.21 / 1.07
Luminous Opening: Rectangular (W 3.88' x L: 0.09' x H: 0')
CIE Type: Direct

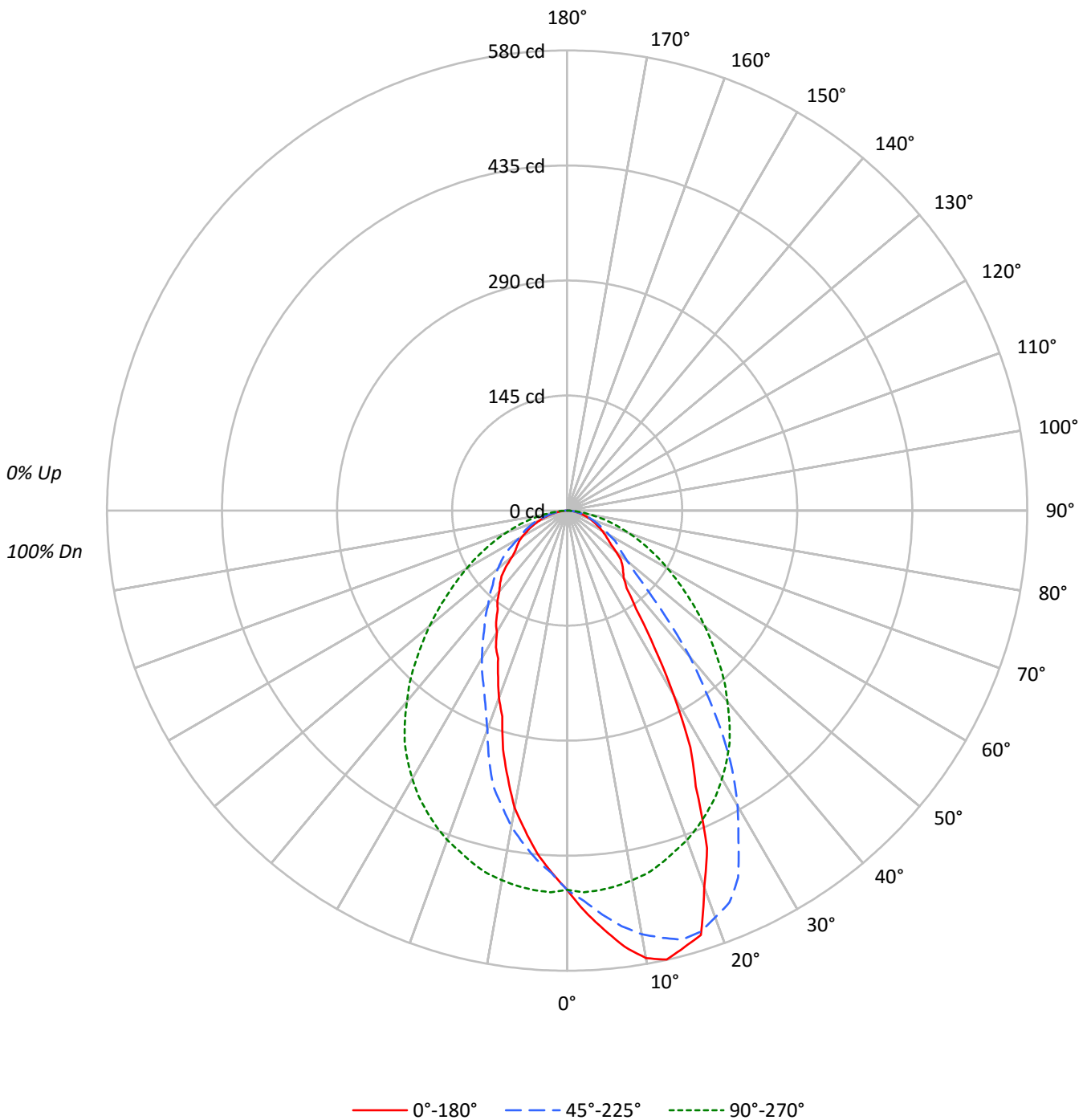
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243100

CATALOG NUMBER: S121RDR-H305D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243100

CATALOG NUMBER: S121RDR-H305D935-X4F0-XX-UDD-A-W

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | | |
| 3 | 94 | 85 | 78 | 73 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 70 | 76 | 72 | 68 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 69 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 61 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | | |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | | |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 44 | 38 | 34 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 14163 | 14163 | 14163 |
| 5° | 15761 | 14277 | 12897 |
| 10° | 17234 | 14234 | 11451 |
| 15° | 17482 | 14114 | 9564 |
| 20° | 15936 | 13934 | 7911 |
| 25° | 12551 | 13682 | 6728 |
| 30° | 9176 | 13350 | 6066 |
| 35° | 5476 | 12909 | 5516 |
| 40° | 4293 | 12145 | 5144 |
| 45° | 4140 | 11335 | 4894 |
| 50° | 3688 | 10427 | 4153 |
| 55° | 3223 | 9490 | 3967 |
| 60° | 3010 | 8682 | 3846 |
| 65° | 2804 | 7894 | 3562 |
| 70° | 2651 | 7121 | 3249 |
| 75° | 2438 | 6331 | 2885 |
| 80° | 2218 | 5136 | 2525 |
| 85° | 2074 | 3910 | 1836 |



TEST NUMBER: P243100

CATALOG NUMBER: S121RDR-H305D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.6 | 5.4 |
| 10°-20° | 127.3 | 15.1 |
| 20°-30° | 169.2 | 20.1 |
| 30°-40° | 161.5 | 19.2 |
| 40°-50° | 134.0 | 15.9 |
| 50°-60° | 99.6 | 11.8 |
| 60°-70° | 64.5 | 7.7 |
| 70°-80° | 32.8 | 3.9 |
| 80°-90° | 8.0 | 1.0 |
| 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 |
| <hr/> | | |
| 0°-30° | 342.2 | 40.6 |
| 0°-40° | 503.6 | 59.8 |
| 0°-60° | 737.2 | 87.5 |
| 0°-90° | 842.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 842.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 478 | 478 | 478 | 478 | 478 | |
| 5° | 530 | 511 | 480 | 442 | 434 | 52 |
| 15° | 570 | 560 | 460 | 360 | 312 | 159 |
| 25° | 384 | 510 | 418 | 248 | 206 | 178 |
| 35° | 151 | 339 | 357 | 182 | 152 | 103 |
| 45° | 99 | 146 | 270 | 133 | 117 | 75 |
| 55° | 62 | 79 | 184 | 96 | 77 | 57 |
| 65° | 40 | 45 | 113 | 58 | 51 | 40 |
| 75° | 21 | 23 | 55 | 29 | 25 | 23 |
| 85° | 6 | 6 | 12 | 6 | 5 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243100

CATALOG NUMBER: S121RDR-H305D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 |
| 2.5° | 505.4 | 504.1 | 505.5 | 505.0 | 502.7 | 503.2 | 500.3 | 498.5 | 494.2 | 492.6 | 492.6 |
| 5° | 529.9 | 531.7 | 530.6 | 531.0 | 528.6 | 527.2 | 524.1 | 520.7 | 515.3 | 511.3 | 509.9 |
| 7.5° | 554.4 | 554.9 | 555.5 | 554.0 | 551.3 | 548.8 | 544.5 | 539.4 | 533.5 | 528.4 | 524.5 |
| 10° | 572.8 | 574.0 | 573.3 | 571.2 | 569.2 | 565.4 | 560.7 | 555.3 | 548.8 | 542.1 | 537.3 |
| 12.5° | 579.6 | 580.7 | 582.3 | 581.1 | 580.9 | 579.1 | 574.4 | 567.7 | 559.8 | 551.5 | 545.9 |
| 15° | 569.9 | 569.2 | 573.5 | 572.4 | 572.1 | 571.3 | 572.6 | 571.2 | 567.0 | 559.8 | 552.9 |
| 17.5° | 560.9 | 560.5 | 564.8 | 565.9 | 564.3 | 562.0 | 560.5 | 558.7 | 556.7 | 556.9 | 556.0 |
| 20° | 505.4 | 516.4 | 518.5 | 524.3 | 536.5 | 544.7 | 552.8 | 552.4 | 546.6 | 545.7 | 545.4 |
| 22.5° | 460.7 | 464.8 | 462.8 | 472.2 | 478.9 | 493.5 | 507.7 | 525.7 | 537.8 | 534.7 | 532.8 |
| 25° | 383.9 | 396.9 | 402.8 | 414.5 | 431.5 | 450.0 | 458.1 | 477.3 | 495.8 | 510.2 | 521.2 |
| 27.5° | 336.3 | 339.2 | 343.0 | 355.1 | 361.4 | 378.3 | 408.6 | 434.5 | 451.8 | 467.5 | 496.5 |
| 30° | 268.2 | 269.4 | 282.6 | 289.3 | 307.8 | 324.4 | 350.7 | 371.6 | 406.4 | 429.7 | 452.0 |
| 32.5° | 204.7 | 203.7 | 218.1 | 225.8 | 244.2 | 266.6 | 295.9 | 315.4 | 349.5 | 387.5 | 414.2 |
| 35° | 151.4 | 151.2 | 159.0 | 164.4 | 184.6 | 201.7 | 239.0 | 264.4 | 301.7 | 339.0 | 373.4 |
| 37.5° | 123.3 | 123.1 | 124.7 | 129.4 | 137.9 | 157.2 | 175.2 | 212.9 | 249.3 | 286.0 | 329.1 |
| 40° | 111.0 | 111.9 | 112.3 | 114.4 | 117.3 | 123.1 | 134.1 | 160.4 | 196.1 | 239.9 | 283.1 |
| 42.5° | 104.5 | 104.5 | 104.9 | 105.4 | 106.9 | 108.5 | 115.2 | 125.3 | 153.9 | 188.9 | 237.4 |
| 45° | 98.8 | 98.9 | 99.3 | 99.7 | 99.3 | 100.2 | 103.3 | 107.4 | 118.6 | 146.2 | 193.0 |
| 47.5° | 91.9 | 91.7 | 92.6 | 93.2 | 93.9 | 95.0 | 95.2 | 97.3 | 102.2 | 116.6 | 150.7 |
| 50° | 80.0 | 80.2 | 81.1 | 83.3 | 85.6 | 87.6 | 88.9 | 90.3 | 91.9 | 98.8 | 116.8 |
| 52.5° | 69.2 | 69.4 | 69.9 | 71.6 | 73.7 | 76.2 | 80.2 | 83.4 | 84.7 | 86.9 | 97.0 |
| 55° | 62.4 | 62.4 | 63.1 | 64.0 | 64.5 | 66.3 | 69.0 | 72.6 | 77.3 | 79.1 | 83.4 |
| 57.5° | 56.6 | 56.6 | 57.0 | 57.0 | 57.7 | 58.6 | 60.4 | 62.2 | 66.1 | 71.9 | 74.6 |
| 60° | 50.8 | 50.8 | 51.2 | 51.2 | 52.1 | 52.4 | 53.7 | 54.8 | 57.0 | 60.9 | 66.3 |
| 62.5° | 45.4 | 45.1 | 45.4 | 45.6 | 46.1 | 46.7 | 47.6 | 48.8 | 50.1 | 52.4 | 56.4 |
| 65° | 40.0 | 39.8 | 40.2 | 40.6 | 40.9 | 41.6 | 42.2 | 43.1 | 44.2 | 45.4 | 47.4 |
| 67.5° | 35.3 | 35.1 | 35.3 | 35.9 | 35.7 | 36.0 | 36.9 | 37.3 | 38.4 | 39.7 | 41.3 |
| 70° | 30.6 | 30.3 | 30.6 | 30.6 | 30.8 | 31.4 | 31.4 | 32.3 | 33.2 | 33.9 | 35.3 |
| 72.5° | 25.6 | 25.8 | 25.6 | 25.8 | 26.1 | 26.3 | 26.7 | 27.2 | 27.8 | 28.5 | 29.4 |
| 75° | 21.3 | 21.3 | 21.4 | 21.6 | 22.0 | 22.0 | 22.2 | 22.5 | 22.9 | 23.2 | 24.3 |
| 77.5° | 16.9 | 17.1 | 17.3 | 17.5 | 17.5 | 17.7 | 17.8 | 18.0 | 18.6 | 18.7 | 19.3 |
| 80° | 13.0 | 13.2 | 13.2 | 13.2 | 13.5 | 13.2 | 13.5 | 13.9 | 13.9 | 14.1 | 14.4 |
| 82.5° | 9.4 | 9.6 | 9.4 | 9.6 | 9.7 | 9.7 | 9.6 | 9.7 | 9.7 | 10.1 | 10.1 |
| 85° | 6.1 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.9 | 6.1 | 5.9 | 5.9 | 6.1 |
| 87.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.7 | 2.5 | 2.7 | 2.7 | 2.7 | 2.5 | 2.7 |
| 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: P243100

CATALOG NUMBER: S121RDR-H305D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 |
| 2.5° | 493.5 | 492.0 | 490.8 | 488.6 | 485.9 | 481.9 | 481.4 | 481.6 | 476.7 | 472.0 | 471.3 |
| 5° | 506.8 | 504.5 | 500.5 | 495.8 | 491.5 | 484.8 | 481.9 | 480.0 | 472.6 | 466.3 | 463.7 |
| 7.5° | 521.0 | 515.5 | 510.1 | 502.7 | 495.5 | 486.8 | 481.4 | 477.3 | 467.5 | 459.2 | 454.9 |
| 10° | 532.2 | 525.4 | 517.6 | 508.3 | 498.3 | 487.7 | 479.6 | 473.1 | 461.4 | 451.1 | 445.7 |
| 12.5° | 540.2 | 532.4 | 523.2 | 512.0 | 500.7 | 486.6 | 476.7 | 468.1 | 453.8 | 441.6 | 435.1 |
| 15° | 544.3 | 536.0 | 524.7 | 512.4 | 500.7 | 485.9 | 472.7 | 460.1 | 446.1 | 430.8 | 422.6 |
| 17.5° | 548.1 | 537.3 | 524.5 | 510.4 | 498.5 | 483.0 | 466.8 | 450.4 | 434.5 | 420.1 | 407.0 |
| 20° | 545.4 | 536.2 | 522.0 | 507.4 | 494.0 | 476.0 | 458.9 | 441.9 | 422.1 | 405.3 | 392.2 |
| 22.5° | 532.8 | 531.1 | 515.8 | 500.1 | 484.8 | 467.5 | 447.7 | 430.9 | 409.7 | 389.8 | 374.0 |
| 25° | 518.0 | 516.0 | 507.7 | 491.0 | 473.6 | 455.6 | 437.8 | 418.5 | 394.0 | 373.4 | 355.2 |
| 27.5° | 505.5 | 501.0 | 495.1 | 479.4 | 460.9 | 442.8 | 424.4 | 405.7 | 379.6 | 356.7 | 336.0 |
| 30° | 480.3 | 484.6 | 478.0 | 467.2 | 445.7 | 428.2 | 410.6 | 390.2 | 364.2 | 337.9 | 316.7 |
| 32.5° | 440.3 | 466.4 | 459.8 | 451.1 | 430.0 | 410.9 | 394.2 | 374.2 | 345.5 | 319.6 | 297.6 |
| 35° | 405.0 | 427.5 | 442.6 | 432.2 | 413.6 | 391.5 | 374.3 | 356.9 | 326.9 | 300.4 | 279.4 |
| 37.5° | 370.7 | 394.7 | 419.9 | 410.4 | 395.1 | 371.3 | 353.3 | 336.0 | 308.2 | 281.5 | 260.4 |
| 40° | 325.9 | 360.8 | 385.2 | 388.9 | 373.3 | 349.3 | 331.8 | 314.0 | 289.5 | 263.0 | 240.4 |
| 42.5° | 282.8 | 327.7 | 347.3 | 366.8 | 350.7 | 328.2 | 308.7 | 293.6 | 270.0 | 246.7 | 222.2 |
| 45° | 237.7 | 288.7 | 317.7 | 332.7 | 326.9 | 306.4 | 285.1 | 270.5 | 250.7 | 229.1 | 205.8 |
| 47.5° | 198.6 | 247.1 | 288.6 | 297.0 | 302.6 | 282.4 | 262.6 | 247.8 | 230.7 | 212.9 | 190.7 |
| 50° | 157.5 | 207.8 | 252.1 | 267.5 | 278.1 | 259.7 | 239.0 | 226.2 | 211.8 | 195.7 | 176.1 |
| 52.5° | 122.6 | 169.6 | 216.1 | 242.2 | 245.8 | 236.3 | 217.2 | 204.6 | 193.0 | 178.6 | 160.8 |
| 55° | 97.3 | 133.7 | 180.2 | 210.7 | 214.1 | 211.8 | 194.6 | 183.7 | 175.2 | 163.1 | 148.2 |
| 57.5° | 80.7 | 104.0 | 146.0 | 181.1 | 186.2 | 188.3 | 174.3 | 164.4 | 156.8 | 147.2 | 133.7 |
| 60° | 69.7 | 82.0 | 114.1 | 148.5 | 162.4 | 166.2 | 153.7 | 146.5 | 140.2 | 131.6 | 119.0 |
| 62.5° | 61.6 | 67.2 | 87.2 | 120.4 | 138.2 | 141.5 | 135.2 | 129.8 | 124.5 | 116.2 | 105.1 |
| 65° | 51.4 | 57.3 | 67.2 | 93.0 | 115.0 | 116.6 | 117.9 | 112.6 | 108.5 | 101.7 | 91.7 |
| 67.5° | 43.1 | 47.8 | 54.2 | 71.4 | 92.3 | 97.0 | 100.2 | 97.9 | 93.9 | 87.1 | 78.6 |
| 70° | 36.6 | 39.3 | 44.0 | 53.5 | 70.5 | 80.6 | 84.0 | 82.2 | 80.2 | 72.8 | 65.6 |
| 72.5° | 30.5 | 32.6 | 35.3 | 41.1 | 53.2 | 64.0 | 69.0 | 68.1 | 66.0 | 60.4 | 54.4 |
| 75° | 25.2 | 26.1 | 28.3 | 31.5 | 38.6 | 48.7 | 54.6 | 55.3 | 52.8 | 47.6 | 42.9 |
| 77.5° | 19.8 | 20.7 | 22.0 | 24.0 | 28.5 | 35.3 | 40.2 | 42.0 | 40.4 | 36.6 | 31.9 |
| 80° | 15.1 | 15.7 | 16.6 | 17.5 | 19.3 | 24.0 | 29.0 | 30.1 | 29.2 | 26.1 | 23.2 |
| 82.5° | 10.1 | 10.5 | 11.2 | 11.9 | 12.8 | 15.0 | 19.3 | 20.0 | 19.8 | 17.1 | 15.1 |
| 85° | 6.1 | 6.1 | 6.3 | 6.8 | 7.2 | 8.1 | 10.5 | 11.5 | 11.0 | 9.2 | 8.3 |
| 87.5° | 2.5 | 2.7 | 2.5 | 2.5 | 2.5 | 2.7 | 3.4 | 4.7 | 3.6 | 2.7 | 2.5 |
| 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: P243100

CATALOG NUMBER: S121RDR-H305D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 | 478.0 |
| 2.5° | 469.3 | 468.6 | 465.9 | 463.4 | 460.5 | 457.1 | 457.2 | 457.8 | 456.5 | 456.2 | 457.4 |
| 5° | 460.1 | 457.6 | 453.5 | 449.3 | 446.1 | 441.7 | 439.2 | 440.5 | 439.6 | 438.0 | 436.9 |
| 7.5° | 450.4 | 446.8 | 440.8 | 435.6 | 431.3 | 423.2 | 421.4 | 419.2 | 417.4 | 413.8 | 413.1 |
| 10° | 438.9 | 433.6 | 426.1 | 418.7 | 410.7 | 404.4 | 398.5 | 396.0 | 391.1 | 387.9 | 387.0 |
| 12.5° | 427.0 | 418.3 | 409.8 | 399.0 | 390.0 | 380.8 | 375.6 | 372.0 | 367.1 | 359.2 | 355.4 |
| 15° | 414.7 | 401.6 | 390.2 | 378.3 | 372.2 | 359.7 | 349.8 | 338.7 | 332.7 | 319.4 | 311.6 |
| 17.5° | 398.3 | 383.2 | 367.9 | 358.1 | 345.3 | 328.0 | 311.4 | 305.7 | 296.7 | 288.0 | 279.4 |
| 20° | 376.1 | 362.3 | 347.7 | 333.1 | 313.6 | 293.6 | 287.3 | 277.4 | 267.5 | 262.2 | 257.7 |
| 22.5° | 355.8 | 340.8 | 323.5 | 304.2 | 284.2 | 268.5 | 260.3 | 253.0 | 246.9 | 242.2 | 237.0 |
| 25° | 336.5 | 321.0 | 296.3 | 276.7 | 259.2 | 247.6 | 243.5 | 234.1 | 227.6 | 224.2 | 219.7 |
| 27.5° | 315.2 | 294.0 | 274.1 | 253.8 | 238.3 | 231.8 | 222.2 | 214.8 | 208.0 | 201.3 | 199.7 |
| 30° | 295.0 | 271.4 | 251.8 | 235.2 | 223.8 | 214.8 | 205.1 | 196.5 | 191.9 | 189.4 | 185.3 |
| 32.5° | 275.0 | 251.1 | 232.7 | 219.7 | 207.4 | 197.9 | 188.7 | 184.2 | 177.3 | 171.8 | 168.2 |
| 35° | 253.6 | 232.7 | 218.1 | 202.9 | 191.2 | 181.9 | 177.2 | 166.9 | 163.1 | 161.5 | 157.7 |
| 37.5° | 234.7 | 216.1 | 201.3 | 189.8 | 177.0 | 169.4 | 160.2 | 157.9 | 152.8 | 148.5 | 147.2 |
| 40° | 219.0 | 201.5 | 187.6 | 172.7 | 164.7 | 154.8 | 150.3 | 144.0 | 142.2 | 140.6 | 137.7 |
| 42.5° | 201.9 | 186.9 | 171.0 | 160.9 | 149.2 | 144.7 | 137.7 | 135.9 | 131.6 | 129.9 | 128.9 |
| 45° | 187.3 | 173.4 | 158.2 | 146.0 | 139.3 | 132.7 | 129.9 | 125.4 | 123.5 | 121.5 | 119.5 |
| 47.5° | 173.0 | 158.6 | 146.5 | 135.0 | 127.6 | 124.5 | 119.7 | 116.4 | 114.3 | 112.3 | 110.3 |
| 50° | 159.9 | 145.3 | 131.7 | 123.5 | 118.2 | 113.9 | 110.8 | 108.1 | 105.1 | 100.7 | 96.2 |
| 52.5° | 145.6 | 132.5 | 121.5 | 113.4 | 108.7 | 104.5 | 101.8 | 97.1 | 91.2 | 86.5 | 84.3 |
| 55° | 131.4 | 119.0 | 109.4 | 102.9 | 99.7 | 95.7 | 89.6 | 82.7 | 78.9 | 78.2 | 77.7 |
| 57.5° | 119.3 | 107.6 | 98.8 | 93.7 | 89.9 | 82.9 | 76.4 | 73.9 | 72.8 | 72.5 | 72.1 |
| 60° | 105.8 | 95.3 | 89.0 | 83.6 | 77.3 | 70.7 | 68.7 | 68.3 | 67.2 | 66.7 | 66.3 |
| 62.5° | 93.4 | 84.3 | 78.6 | 72.1 | 65.4 | 64.2 | 62.7 | 61.8 | 61.3 | 60.0 | 59.5 |
| 65° | 81.3 | 74.1 | 67.8 | 60.9 | 58.6 | 57.7 | 56.4 | 55.2 | 53.7 | 52.8 | 52.1 |
| 67.5° | 69.7 | 62.7 | 56.1 | 53.5 | 52.3 | 50.8 | 49.2 | 47.4 | 46.7 | 45.4 | 45.2 |
| 70° | 58.4 | 51.9 | 48.3 | 46.7 | 44.3 | 43.1 | 41.3 | 40.6 | 39.3 | 38.7 | 38.2 |
| 72.5° | 47.6 | 42.9 | 41.5 | 39.1 | 37.5 | 35.5 | 34.6 | 33.9 | 33.2 | 32.3 | 32.3 |
| 75° | 37.1 | 35.9 | 33.2 | 31.4 | 29.7 | 28.7 | 28.3 | 27.0 | 26.9 | 26.3 | 26.0 |
| 77.5° | 29.6 | 27.0 | 26.1 | 24.2 | 23.1 | 22.5 | 22.2 | 21.4 | 20.7 | 20.5 | 20.4 |
| 80° | 20.9 | 19.6 | 18.6 | 17.7 | 16.8 | 16.4 | 16.0 | 15.9 | 15.5 | 15.1 | 15.0 |
| 82.5° | 13.7 | 13.0 | 12.3 | 11.7 | 11.5 | 11.0 | 10.6 | 10.5 | 10.1 | 10.1 | 10.1 |
| 85° | 7.4 | 7.2 | 6.8 | 6.5 | 6.1 | 6.1 | 5.9 | 5.8 | 5.8 | 5.2 | 5.2 |
| 87.5° | 2.3 | 2.3 | 2.2 | 2.2 | 1.8 | 2.0 | 1.8 | 1.8 | 1.6 | 1.8 | 1.8 |
| 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: P243100

CATALOG NUMBER: S121RDR-H305D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 478.0 | 478.0 | 478.0 | 478.0 |
| 2.5° | 456.0 | 456.0 | 455.3 | 456.0 |
| 5° | 436.2 | 434.5 | 434.0 | 433.6 |
| 7.5° | 410.9 | 409.5 | 408.0 | 406.6 |
| 10° | 385.2 | 383.0 | 381.7 | 380.6 |
| 12.5° | 351.6 | 348.9 | 343.9 | 345.3 |
| 15° | 310.4 | 310.5 | 298.8 | 311.8 |
| 17.5° | 276.7 | 277.6 | 272.9 | 272.1 |
| 20° | 255.2 | 254.8 | 253.0 | 250.9 |
| 22.5° | 233.2 | 231.6 | 230.9 | 227.5 |
| 25° | 212.7 | 209.8 | 210.7 | 205.8 |
| 27.5° | 197.7 | 195.4 | 194.6 | 194.3 |
| 30° | 182.8 | 177.9 | 176.3 | 177.3 |
| 32.5° | 167.6 | 167.3 | 166.7 | 166.9 |
| 35° | 154.8 | 154.1 | 152.5 | 152.5 |
| 37.5° | 146.0 | 146.2 | 145.3 | 144.5 |
| 40° | 135.2 | 134.3 | 134.1 | 133.0 |
| 42.5° | 127.4 | 125.6 | 124.9 | 125.1 |
| 45° | 118.4 | 117.3 | 116.4 | 116.8 |
| 47.5° | 107.8 | 106.7 | 104.7 | 104.2 |
| 50° | 93.4 | 91.9 | 91.0 | 90.1 |
| 52.5° | 82.5 | 82.4 | 82.0 | 81.8 |
| 55° | 77.3 | 76.8 | 76.8 | 76.8 |
| 57.5° | 71.9 | 71.6 | 71.4 | 71.7 |
| 60° | 66.0 | 65.6 | 64.9 | 64.9 |
| 62.5° | 58.6 | 58.2 | 58.0 | 57.3 |
| 65° | 51.2 | 51.0 | 50.6 | 50.8 |
| 67.5° | 44.3 | 44.2 | 44.2 | 43.6 |
| 70° | 37.7 | 37.7 | 37.1 | 37.5 |
| 72.5° | 31.5 | 31.4 | 31.4 | 31.4 |
| 75° | 25.6 | 25.4 | 25.2 | 25.2 |
| 77.5° | 20.2 | 20.2 | 19.8 | 19.8 |
| 80° | 14.6 | 14.6 | 14.4 | 14.8 |
| 82.5° | 9.7 | 10.1 | 9.7 | 9.7 |
| 85° | 5.2 | 5.4 | 5.4 | 5.4 |
| 87.5° | 1.6 | 1.4 | 1.4 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)