

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: P242137

Luminaire Tested: **S121DR-S305D935-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S121DR-S305D935-X4F0-XX-UDD-A-W
Description: DEFINE 1 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1076.5 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.37
Luminous Opening: Rectangular (W 3.88' x L: 0.09' x H: 0')
CIE Type: Direct

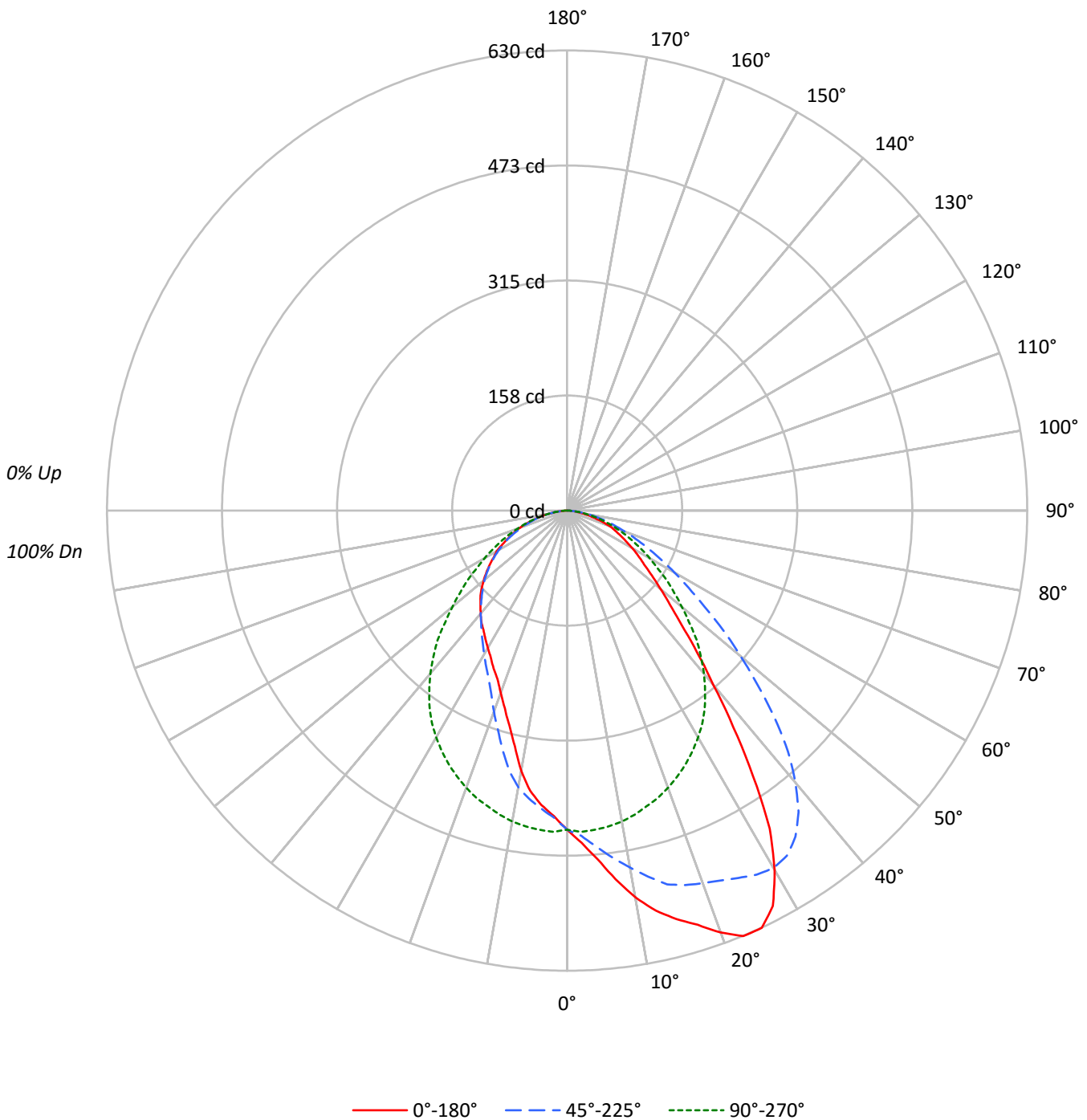
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242137

CATALOG NUMBER: S121DR-S305D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242137

CATALOG NUMBER: S121DR-S305D935-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 85 | 81 | 88 | 83 | 79 | 85 | 80 | 77 | 82 | 78 | 75 | 73 |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 |
| 4 | 85 | 74 | 66 | 59 | 83 | 73 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 54 |
| 5 | 79 | 66 | 58 | 52 | 77 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 48 |
| 6 | 73 | 60 | 52 | 46 | 71 | 59 | 51 | 45 | 57 | 50 | 45 | 56 | 49 | 45 | 54 | 49 | 44 | 42 |
| 7 | 68 | 55 | 46 | 41 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 63 | 50 | 42 | 36 | 62 | 50 | 42 | 36 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 9 | 59 | 46 | 38 | 33 | 58 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 32 | 31 |
| 10 | 56 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 39 | 34 | 30 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 12942 | 12942 | 12942 |
| 5° | 14247 | 13048 | 12031 |
| 10° | 16175 | 13001 | 10882 |
| 15° | 17761 | 12859 | 9353 |
| 20° | 19382 | 12732 | 8368 |
| 25° | 20613 | 12531 | 7791 |
| 30° | 19437 | 12272 | 7435 |
| 35° | 16060 | 11886 | 7220 |
| 40° | 12041 | 11271 | 7125 |
| 45° | 9277 | 10509 | 7040 |
| 50° | 7693 | 9454 | 6877 |
| 55° | 6643 | 8586 | 6679 |
| 60° | 6104 | 7739 | 6596 |
| 65° | 5644 | 6997 | 6219 |
| 70° | 5345 | 6289 | 5960 |
| 75° | 4385 | 5552 | 5289 |
| 80° | 3464 | 4522 | 4368 |
| 85° | 2686 | 3332 | 2924 |



TEST NUMBER: P242137

CATALOG NUMBER: S121DR-S305D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.0 | 3.9 |
| 10°-20° | 122.5 | 11.4 |
| 20°-30° | 187.6 | 17.4 |
| 30°-40° | 214.1 | 19.9 |
| 40°-50° | 192.1 | 17.8 |
| 50°-60° | 150.7 | 14.0 |
| 60°-70° | 102.5 | 9.5 |
| 70°-80° | 52.8 | 4.9 |
| 80°-90° | 12.2 | 1.1 |
| 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° | 352.1 | 32.7 |
| 0°-40° | 566.2 | 52.6 |
| 0°-60° | 909.0 | 84.4 |
| 0°-90° | 1076.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1076.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 437 | 437 | 437 | 437 | 437 | |
| 5° | 479 | 462 | 439 | 409 | 404 | 48 |
| 15° | 579 | 530 | 419 | 340 | 305 | 165 |
| 25° | 630 | 555 | 383 | 254 | 238 | 284 |
| 35° | 444 | 545 | 329 | 204 | 200 | 275 |
| 45° | 221 | 402 | 251 | 165 | 168 | 176 |
| 55° | 129 | 230 | 166 | 128 | 129 | 117 |
| 65° | 80 | 122 | 100 | 87 | 89 | 80 |
| 75° | 38 | 54 | 48 | 44 | 46 | 41 |
| 85° | 8 | 10 | 10 | 9 | 9 | 10 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242137

CATALOG NUMBER: S121DR-S305D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 |
| 2.5° | 455.3 | 455.3 | 456.0 | 455.8 | 455.1 | 453.8 | 452.6 | 451.3 | 447.9 | 445.7 | 447.7 |
| 5° | 479.0 | 479.9 | 480.8 | 480.6 | 477.8 | 475.4 | 471.8 | 470.9 | 464.9 | 462.0 | 461.1 |
| 7.5° | 509.0 | 508.8 | 509.2 | 506.0 | 503.6 | 501.1 | 496.4 | 490.6 | 483.5 | 479.5 | 475.8 |
| 10° | 537.6 | 539.3 | 538.5 | 534.6 | 530.8 | 528.2 | 520.7 | 513.5 | 504.7 | 496.2 | 491.5 |
| 12.5° | 560.9 | 560.0 | 563.2 | 559.4 | 554.9 | 550.0 | 542.7 | 536.3 | 524.8 | 513.4 | 503.8 |
| 15° | 579.0 | 578.0 | 578.4 | 575.6 | 570.9 | 566.5 | 559.0 | 552.3 | 541.4 | 529.9 | 519.7 |
| 17.5° | 594.7 | 595.7 | 594.0 | 590.6 | 584.2 | 579.1 | 569.7 | 560.5 | 549.1 | 537.6 | 527.6 |
| 20° | 614.7 | 615.6 | 612.4 | 607.5 | 601.3 | 592.7 | 582.9 | 569.7 | 557.0 | 542.9 | 530.5 |
| 22.5° | 630.5 | 629.9 | 628.8 | 624.1 | 617.5 | 609.4 | 595.3 | 580.8 | 565.6 | 548.1 | 532.1 |
| 25° | 630.5 | 631.2 | 631.8 | 629.3 | 625.0 | 618.2 | 608.7 | 593.4 | 576.3 | 554.9 | 532.5 |
| 27.5° | 610.2 | 613.5 | 616.0 | 616.0 | 615.0 | 614.9 | 609.2 | 599.6 | 583.7 | 562.0 | 537.2 |
| 30° | 568.1 | 572.6 | 576.3 | 582.1 | 589.1 | 593.6 | 595.3 | 591.5 | 583.3 | 565.0 | 539.3 |
| 32.5° | 516.2 | 515.8 | 523.5 | 532.9 | 546.6 | 556.2 | 565.8 | 571.4 | 571.1 | 560.2 | 538.7 |
| 35° | 444.0 | 449.3 | 458.5 | 471.6 | 489.3 | 505.1 | 525.9 | 536.8 | 545.5 | 545.1 | 531.4 |
| 37.5° | 373.7 | 374.4 | 384.8 | 402.8 | 418.4 | 442.9 | 470.1 | 492.9 | 513.7 | 520.5 | 516.0 |
| 40° | 311.3 | 316.5 | 323.5 | 338.5 | 354.1 | 375.6 | 410.2 | 440.6 | 466.4 | 486.3 | 491.7 |
| 42.5° | 263.2 | 266.0 | 272.7 | 285.9 | 299.8 | 325.4 | 350.8 | 383.3 | 415.8 | 447.6 | 463.9 |
| 45° | 221.4 | 224.1 | 230.3 | 239.5 | 252.4 | 272.6 | 298.7 | 330.3 | 365.0 | 402.3 | 425.6 |
| 47.5° | 191.0 | 191.9 | 196.6 | 203.6 | 215.8 | 230.5 | 251.5 | 282.1 | 317.3 | 353.6 | 387.8 |
| 50° | 166.9 | 168.4 | 171.6 | 177.1 | 186.1 | 199.8 | 216.5 | 239.7 | 272.2 | 309.8 | 344.6 |
| 52.5° | 145.9 | 147.0 | 150.8 | 153.8 | 160.7 | 172.4 | 186.8 | 207.9 | 235.3 | 269.2 | 305.1 |
| 55° | 128.6 | 129.7 | 131.6 | 135.0 | 140.4 | 148.3 | 160.7 | 177.4 | 200.9 | 229.5 | 263.2 |
| 57.5° | 115.4 | 116.0 | 116.4 | 118.6 | 122.9 | 129.3 | 139.9 | 153.0 | 171.2 | 197.4 | 227.3 |
| 60° | 103.0 | 102.8 | 104.3 | 106.0 | 108.6 | 112.6 | 120.3 | 132.1 | 148.5 | 169.7 | 197.6 |
| 62.5° | 90.6 | 91.5 | 92.5 | 93.8 | 95.5 | 97.7 | 103.9 | 112.8 | 125.8 | 144.0 | 166.9 |
| 65° | 80.5 | 80.6 | 81.4 | 81.6 | 83.6 | 85.9 | 90.6 | 96.6 | 107.3 | 122.2 | 141.2 |
| 67.5° | 70.7 | 70.9 | 70.7 | 71.2 | 72.2 | 74.1 | 76.5 | 81.4 | 89.7 | 101.7 | 118.2 |
| 70° | 61.7 | 61.1 | 60.3 | 61.3 | 62.2 | 63.2 | 64.9 | 68.6 | 74.8 | 83.8 | 97.6 |
| 72.5° | 49.6 | 50.0 | 50.4 | 50.8 | 50.9 | 52.3 | 53.8 | 56.4 | 61.3 | 68.2 | 78.8 |
| 75° | 38.3 | 38.3 | 38.9 | 39.3 | 41.0 | 41.4 | 43.0 | 44.9 | 48.9 | 53.8 | 62.0 |
| 77.5° | 28.2 | 28.0 | 28.9 | 29.1 | 30.1 | 31.2 | 32.1 | 34.0 | 37.0 | 41.2 | 46.6 |
| 80° | 20.3 | 20.5 | 20.3 | 20.3 | 20.9 | 21.6 | 22.9 | 23.9 | 25.9 | 28.6 | 32.5 |
| 82.5° | 13.5 | 13.5 | 13.7 | 13.7 | 14.3 | 14.3 | 15.0 | 15.8 | 17.1 | 18.8 | 21.6 |
| 85° | 7.9 | 7.9 | 7.7 | 7.7 | 7.9 | 7.9 | 8.6 | 9.2 | 9.4 | 10.5 | 11.5 |
| 87.5° | 3.4 | 3.4 | 3.2 | 3.4 | 3.2 | 3.4 | 3.2 | 3.6 | 3.8 | 3.9 | 4.3 |
| 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: P242137

CATALOG NUMBER: S121DR-S305D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 |
| 2.5° | 447.2 | 446.6 | 446.4 | 444.4 | 442.3 | 439.9 | 439.5 | 440.2 | 437.0 | 433.1 | 432.9 |
| 5° | 458.8 | 456.8 | 453.8 | 449.8 | 446.4 | 441.9 | 439.7 | 438.7 | 433.8 | 428.2 | 427.1 |
| 7.5° | 471.8 | 466.7 | 461.3 | 455.3 | 449.3 | 442.7 | 438.5 | 436.1 | 429.3 | 422.4 | 419.6 |
| 10° | 484.2 | 477.6 | 469.4 | 460.2 | 451.7 | 442.7 | 436.5 | 432.1 | 423.9 | 415.2 | 410.9 |
| 12.5° | 498.5 | 487.6 | 475.9 | 464.5 | 454.1 | 442.5 | 433.1 | 426.5 | 416.9 | 407.7 | 401.3 |
| 15° | 508.8 | 493.1 | 484.0 | 467.7 | 454.7 | 440.6 | 429.1 | 419.2 | 408.7 | 398.5 | 392.1 |
| 17.5° | 516.9 | 504.5 | 488.7 | 470.7 | 453.2 | 438.0 | 423.7 | 412.6 | 398.7 | 387.6 | 380.6 |
| 20° | 519.6 | 507.0 | 490.8 | 471.1 | 453.6 | 434.0 | 417.1 | 403.8 | 388.9 | 375.4 | 365.8 |
| 22.5° | 518.6 | 504.3 | 487.8 | 468.4 | 450.8 | 427.6 | 410.0 | 394.0 | 377.4 | 363.0 | 349.8 |
| 25° | 516.5 | 500.0 | 481.8 | 463.5 | 443.8 | 421.1 | 400.8 | 383.3 | 363.4 | 347.6 | 331.8 |
| 27.5° | 515.4 | 493.8 | 473.3 | 453.6 | 434.8 | 412.8 | 391.0 | 371.4 | 349.4 | 330.3 | 310.0 |
| 30° | 515.0 | 489.3 | 463.5 | 440.6 | 423.3 | 400.9 | 379.3 | 358.7 | 332.9 | 311.3 | 290.6 |
| 32.5° | 514.3 | 485.5 | 455.3 | 427.8 | 408.1 | 388.0 | 365.0 | 344.6 | 315.4 | 292.9 | 270.7 |
| 35° | 509.2 | 479.0 | 445.7 | 414.5 | 391.4 | 370.5 | 350.0 | 328.6 | 298.3 | 274.1 | 252.8 |
| 37.5° | 498.3 | 471.8 | 436.3 | 401.1 | 373.5 | 352.3 | 333.3 | 310.0 | 280.6 | 254.1 | 234.4 |
| 40° | 482.1 | 460.5 | 426.1 | 388.0 | 355.5 | 332.1 | 312.0 | 291.4 | 261.1 | 235.7 | 217.9 |
| 42.5° | 461.1 | 444.4 | 412.0 | 372.6 | 338.0 | 311.8 | 291.4 | 270.9 | 243.0 | 218.6 | 202.6 |
| 45° | 433.5 | 423.1 | 394.7 | 355.8 | 321.1 | 290.8 | 268.6 | 250.8 | 225.0 | 202.6 | 188.0 |
| 47.5° | 402.8 | 398.3 | 374.6 | 337.2 | 300.6 | 271.2 | 245.3 | 226.5 | 206.4 | 187.4 | 174.4 |
| 50° | 365.8 | 369.4 | 350.8 | 316.4 | 280.8 | 250.8 | 225.4 | 205.1 | 187.6 | 172.9 | 161.5 |
| 52.5° | 331.2 | 339.7 | 324.6 | 291.9 | 260.2 | 229.0 | 203.4 | 184.8 | 171.1 | 159.0 | 149.1 |
| 55° | 292.7 | 304.9 | 295.9 | 267.7 | 236.1 | 208.5 | 182.9 | 166.2 | 154.3 | 145.1 | 136.7 |
| 57.5° | 255.6 | 272.9 | 266.4 | 241.0 | 214.1 | 187.2 | 163.2 | 146.6 | 138.2 | 131.4 | 124.2 |
| 60° | 222.7 | 238.5 | 237.6 | 216.0 | 189.1 | 165.2 | 145.5 | 130.6 | 123.1 | 118.6 | 112.4 |
| 62.5° | 193.2 | 209.2 | 207.7 | 188.2 | 166.9 | 144.7 | 128.0 | 114.5 | 109.0 | 104.1 | 100.2 |
| 65° | 163.2 | 176.9 | 177.6 | 163.2 | 142.7 | 124.8 | 110.5 | 99.8 | 94.9 | 91.9 | 89.1 |
| 67.5° | 135.9 | 149.2 | 150.6 | 139.1 | 121.1 | 105.6 | 94.9 | 85.9 | 81.6 | 78.9 | 76.9 |
| 70° | 112.0 | 122.9 | 125.4 | 115.8 | 100.6 | 88.5 | 79.5 | 72.6 | 69.7 | 67.1 | 66.4 |
| 72.5° | 90.8 | 99.6 | 101.3 | 92.5 | 81.2 | 72.2 | 65.2 | 60.0 | 57.9 | 55.3 | 54.7 |
| 75° | 72.2 | 78.4 | 78.6 | 72.7 | 64.3 | 57.3 | 51.7 | 48.5 | 46.2 | 44.4 | 44.0 |
| 77.5° | 52.4 | 57.9 | 59.6 | 55.3 | 48.3 | 42.5 | 39.3 | 36.8 | 35.3 | 34.4 | 34.2 |
| 80° | 38.0 | 41.5 | 42.3 | 38.5 | 34.4 | 30.8 | 28.6 | 26.5 | 25.6 | 24.6 | 24.2 |
| 82.5° | 23.7 | 26.9 | 27.1 | 24.4 | 22.4 | 19.9 | 18.0 | 17.3 | 16.7 | 16.2 | 16.2 |
| 85° | 12.8 | 14.5 | 14.3 | 13.2 | 12.2 | 10.9 | 10.2 | 9.8 | 9.4 | 9.0 | 9.0 |
| 87.5° | 4.9 | 5.5 | 5.5 | 5.6 | 4.9 | 4.3 | 3.9 | 4.1 | 3.9 | 3.9 | 3.9 |
| 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: P242137

CATALOG NUMBER: S121DR-S305D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 | 436.8 |
| 2.5° | 431.6 | 430.8 | 429.0 | 425.9 | 424.3 | 420.5 | 420.7 | 421.4 | 421.6 | 421.1 | 420.9 |
| 5° | 423.9 | 421.6 | 418.6 | 414.9 | 412.2 | 409.4 | 407.5 | 408.7 | 408.1 | 407.9 | 407.0 |
| 7.5° | 415.4 | 412.4 | 408.7 | 404.9 | 401.9 | 398.1 | 396.6 | 395.3 | 393.8 | 393.6 | 392.9 |
| 10° | 407.0 | 403.2 | 398.9 | 393.4 | 389.3 | 384.6 | 380.1 | 377.6 | 374.8 | 372.7 | 368.4 |
| 12.5° | 397.0 | 390.6 | 385.7 | 380.1 | 372.6 | 365.0 | 360.0 | 353.0 | 349.3 | 345.5 | 340.4 |
| 15° | 385.5 | 377.3 | 368.8 | 357.5 | 350.9 | 340.4 | 332.9 | 327.8 | 322.0 | 318.2 | 313.9 |
| 17.5° | 369.2 | 360.5 | 349.8 | 337.0 | 325.4 | 314.7 | 309.2 | 302.6 | 300.2 | 291.9 | 291.2 |
| 20° | 353.0 | 340.0 | 326.7 | 313.7 | 300.8 | 293.0 | 286.1 | 281.8 | 277.3 | 272.0 | 270.3 |
| 22.5° | 334.8 | 317.9 | 303.8 | 291.7 | 279.9 | 271.4 | 268.0 | 263.2 | 258.8 | 255.8 | 253.0 |
| 25° | 312.6 | 297.0 | 282.7 | 271.4 | 260.7 | 254.3 | 250.0 | 246.4 | 244.6 | 241.2 | 240.0 |
| 27.5° | 292.1 | 276.5 | 265.0 | 254.5 | 245.9 | 240.2 | 236.5 | 233.3 | 230.8 | 230.3 | 229.0 |
| 30° | 271.2 | 257.9 | 247.0 | 238.0 | 230.3 | 227.3 | 223.7 | 222.2 | 220.7 | 219.9 | 218.4 |
| 32.5° | 252.4 | 240.6 | 231.0 | 222.4 | 217.9 | 215.0 | 213.2 | 211.7 | 210.5 | 210.2 | 209.8 |
| 35° | 235.3 | 224.4 | 216.5 | 210.3 | 207.0 | 203.9 | 203.0 | 201.7 | 201.1 | 200.9 | 200.8 |
| 37.5° | 220.3 | 210.2 | 204.1 | 198.7 | 196.2 | 193.4 | 193.6 | 193.0 | 192.7 | 191.5 | 192.3 |
| 40° | 205.1 | 197.2 | 191.0 | 186.7 | 185.0 | 184.0 | 183.6 | 183.3 | 183.5 | 183.5 | 183.3 |
| 42.5° | 191.2 | 184.2 | 180.3 | 176.1 | 175.4 | 174.6 | 174.6 | 174.1 | 174.3 | 175.2 | 175.6 |
| 45° | 178.6 | 173.1 | 169.6 | 166.2 | 166.2 | 165.2 | 166.0 | 165.8 | 166.4 | 166.9 | 167.3 |
| 47.5° | 166.0 | 161.1 | 158.5 | 156.8 | 156.0 | 156.0 | 156.6 | 157.5 | 157.9 | 158.1 | 158.5 |
| 50° | 153.4 | 149.8 | 147.6 | 146.6 | 146.4 | 147.4 | 147.9 | 147.7 | 148.3 | 149.1 | 149.6 |
| 52.5° | 142.3 | 139.1 | 137.6 | 137.2 | 137.2 | 138.0 | 138.2 | 138.7 | 139.1 | 139.1 | 139.9 |
| 55° | 130.8 | 128.6 | 127.4 | 127.3 | 127.4 | 127.8 | 128.6 | 128.9 | 128.8 | 129.1 | 129.1 |
| 57.5° | 119.4 | 117.7 | 117.1 | 117.7 | 117.7 | 118.4 | 118.4 | 118.4 | 118.2 | 119.0 | 118.8 |
| 60° | 108.6 | 106.8 | 107.3 | 107.1 | 107.7 | 107.7 | 108.3 | 108.3 | 107.7 | 108.5 | 108.8 |
| 62.5° | 97.9 | 97.6 | 96.8 | 96.8 | 97.4 | 97.6 | 97.0 | 97.6 | 97.7 | 98.3 | 98.7 |
| 65° | 86.7 | 85.3 | 85.9 | 85.7 | 86.3 | 87.2 | 86.5 | 86.5 | 87.0 | 87.8 | 88.2 |
| 67.5° | 75.9 | 74.8 | 75.4 | 75.6 | 75.6 | 75.9 | 75.4 | 75.8 | 76.5 | 77.4 | 78.0 |
| 70° | 65.0 | 64.7 | 64.9 | 64.7 | 64.7 | 65.6 | 65.8 | 65.6 | 66.4 | 67.3 | 67.5 |
| 72.5° | 53.9 | 54.3 | 53.9 | 54.3 | 54.7 | 54.1 | 54.3 | 54.9 | 55.6 | 56.2 | 57.1 |
| 75° | 43.8 | 43.2 | 43.4 | 44.4 | 44.2 | 44.5 | 44.4 | 44.9 | 46.2 | 45.9 | 46.1 |
| 77.5° | 33.8 | 33.6 | 33.8 | 34.0 | 34.2 | 34.8 | 34.6 | 35.5 | 35.7 | 35.9 | 36.3 |
| 80° | 24.1 | 24.2 | 24.4 | 24.8 | 25.4 | 25.2 | 25.6 | 25.8 | 26.5 | 25.8 | 26.3 |
| 82.5° | 16.4 | 16.2 | 16.5 | 16.5 | 17.1 | 17.5 | 16.9 | 16.9 | 16.9 | 16.7 | 16.7 |
| 85° | 9.0 | 9.6 | 9.6 | 9.6 | 9.2 | 9.2 | 9.4 | 9.2 | 9.2 | 9.2 | 9.0 |
| 87.5° | 3.9 | 3.9 | 3.8 | 3.6 | 3.8 | 3.6 | 3.6 | 3.4 | 3.2 | 3.2 | 3.0 |
| 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: P242137

CATALOG NUMBER: S121DR-S305D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 436.8 | 436.8 | 436.8 | 436.8 |
| 2.5° | 419.7 | 420.7 | 419.6 | 418.8 |
| 5° | 406.0 | 406.0 | 404.9 | 404.5 |
| 7.5° | 390.6 | 390.8 | 388.7 | 387.2 |
| 10° | 367.5 | 366.4 | 363.4 | 361.7 |
| 12.5° | 336.7 | 338.3 | 333.8 | 330.5 |
| 15° | 309.8 | 305.1 | 307.0 | 304.9 |
| 17.5° | 287.2 | 285.7 | 283.7 | 283.8 |
| 20° | 267.5 | 266.4 | 265.2 | 265.4 |
| 22.5° | 251.9 | 250.9 | 250.6 | 249.3 |
| 25° | 238.9 | 239.3 | 238.3 | 238.3 |
| 27.5° | 228.2 | 227.6 | 227.1 | 226.3 |
| 30° | 218.0 | 218.2 | 217.7 | 217.3 |
| 32.5° | 209.0 | 209.2 | 208.8 | 208.3 |
| 35° | 200.2 | 200.0 | 200.2 | 199.6 |
| 37.5° | 192.1 | 191.9 | 192.1 | 192.9 |
| 40° | 183.8 | 184.0 | 183.5 | 184.2 |
| 42.5° | 175.8 | 175.9 | 175.9 | 175.6 |
| 45° | 166.9 | 167.5 | 167.7 | 168.0 |
| 47.5° | 158.3 | 159.2 | 158.8 | 159.0 |
| 50° | 149.6 | 149.4 | 149.4 | 149.2 |
| 52.5° | 140.0 | 139.5 | 139.3 | 139.5 |
| 55° | 128.6 | 129.3 | 129.3 | 129.3 |
| 57.5° | 119.2 | 119.4 | 119.9 | 119.2 |
| 60° | 109.6 | 109.6 | 109.8 | 111.3 |
| 62.5° | 98.9 | 99.1 | 99.4 | 99.6 |
| 65° | 88.5 | 89.1 | 88.9 | 88.7 |
| 67.5° | 78.4 | 78.4 | 78.6 | 78.2 |
| 70° | 67.9 | 67.9 | 67.9 | 68.8 |
| 72.5° | 57.0 | 57.0 | 57.1 | 57.5 |
| 75° | 46.8 | 46.8 | 46.8 | 46.2 |
| 77.5° | 35.7 | 35.9 | 35.9 | 36.1 |
| 80° | 25.9 | 25.8 | 25.8 | 25.6 |
| 82.5° | 16.4 | 16.5 | 16.4 | 16.2 |
| 85° | 9.0 | 9.2 | 8.6 | 8.6 |
| 87.5° | 3.2 | 3.2 | 3.0 | 3.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)