

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: P242987

Luminaire Tested: **S121DR-H305D840-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-57)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S121DR-H305D840-X4F0-XX-UDD-A-W
Description: DEFINE 1 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1217.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.2 / 1.28
Luminous Opening: Rectangular (W 3.88' x L: 0.09' x H: 0')
CIE Type: Direct

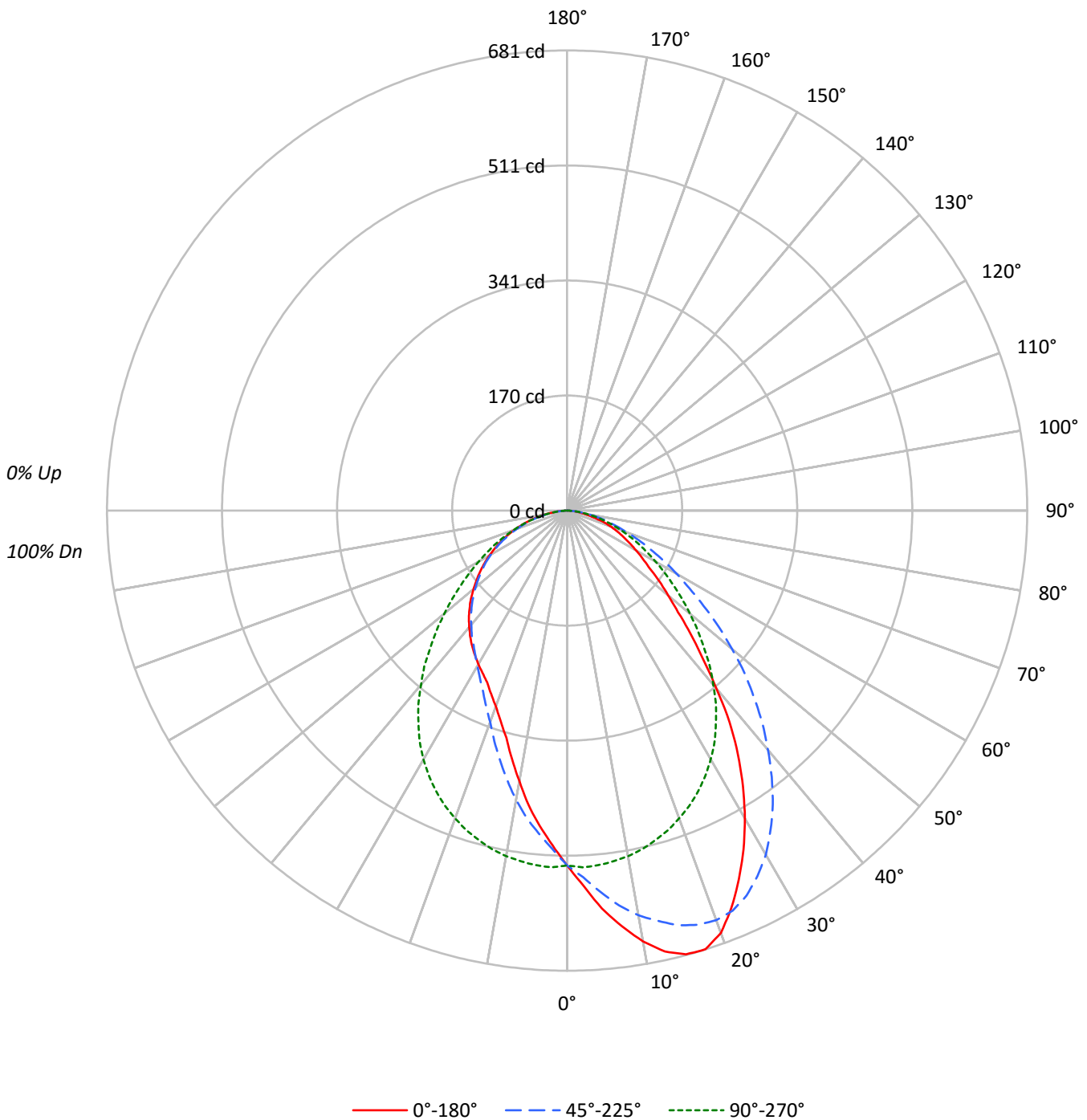
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242987

CATALOG NUMBER: S121DR-H305D840-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242987

CATALOG NUMBER: S121DR-H305D840-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 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 79 | 84 | 80 | 77 | 81 | 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 | 72 | 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 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 63 | 50 | 42 | 37 | 62 | 50 | 42 | 36 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 9 | 59 | 46 | 38 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 15559 | 15559 | 15559 |
| 5° | 17581 | 15669 | 13920 |
| 10° | 19475 | 15621 | 12236 |
| 15° | 20856 | 15485 | 10675 |
| 20° | 20971 | 15283 | 9718 |
| 25° | 19668 | 14996 | 9164 |
| 30° | 17996 | 14544 | 8984 |
| 35° | 15937 | 13879 | 8869 |
| 40° | 13278 | 13015 | 8718 |
| 45° | 10823 | 11976 | 8557 |
| 50° | 8984 | 10915 | 8343 |
| 55° | 7687 | 9892 | 8126 |
| 60° | 6963 | 8954 | 7870 |
| 65° | 6429 | 8154 | 7586 |
| 70° | 5934 | 7346 | 7138 |
| 75° | 4797 | 6514 | 6583 |
| 80° | 3822 | 5272 | 5631 |
| 85° | 2890 | 3876 | 4589 |



TEST NUMBER: P242987

CATALOG NUMBER: S121DR-H305D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.2 | 4.1 |
| 10°-20° | 143.7 | 11.8 |
| 20°-30° | 209.3 | 17.2 |
| 30°-40° | 233.3 | 19.2 |
| 40°-50° | 215.7 | 17.7 |
| 50°-60° | 171.8 | 14.1 |
| 60°-70° | 117.6 | 9.7 |
| 70°-80° | 61.1 | 5.0 |
| 80°-90° | 14.5 | 1.2 |
| 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° | 403.1 | 33.1 |
| 0°-40° | 636.4 | 52.3 |
| 0°-60° | 1023.9 | 84.1 |
| 0°-90° | 1217.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1217.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 525 | 525 | 525 | 525 | 525 | |
| 5° | 591 | 566 | 527 | 480 | 468 | 58 |
| 15° | 680 | 635 | 505 | 383 | 348 | 191 |
| 25° | 602 | 628 | 459 | 295 | 280 | 276 |
| 35° | 441 | 531 | 384 | 241 | 245 | 273 |
| 45° | 258 | 391 | 286 | 200 | 204 | 201 |
| 55° | 149 | 247 | 192 | 154 | 157 | 136 |
| 65° | 92 | 136 | 116 | 105 | 108 | 91 |
| 75° | 42 | 61 | 57 | 54 | 58 | 46 |
| 85° | 8 | 12 | 11 | 12 | 14 | 10 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242987

CATALOG NUMBER: S121DR-H305D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 |
| 2.5° | 555.6 | 555.6 | 554.1 | 554.7 | 553.9 | 552.4 | 550.1 | 547.5 | 544.4 | 543.1 | 542.4 |
| 5° | 591.1 | 591.9 | 590.9 | 588.7 | 588.3 | 586.6 | 581.6 | 578.6 | 571.8 | 566.5 | 564.9 |
| 7.5° | 620.7 | 622.1 | 622.1 | 618.3 | 616.6 | 612.4 | 608.8 | 604.0 | 595.5 | 589.6 | 584.7 |
| 10° | 647.3 | 647.9 | 645.6 | 643.5 | 640.1 | 636.7 | 630.6 | 624.5 | 615.4 | 608.2 | 600.2 |
| 12.5° | 668.4 | 669.7 | 668.0 | 664.6 | 660.6 | 656.2 | 648.6 | 640.7 | 631.9 | 622.1 | 613.5 |
| 15° | 679.9 | 681.8 | 682.0 | 679.2 | 676.3 | 671.0 | 665.5 | 657.0 | 647.3 | 635.3 | 621.1 |
| 17.5° | 680.7 | 681.5 | 682.2 | 680.1 | 678.2 | 676.3 | 670.8 | 663.8 | 654.5 | 642.7 | 629.5 |
| 20° | 665.1 | 667.0 | 669.1 | 667.2 | 668.0 | 668.0 | 665.7 | 662.1 | 654.5 | 645.0 | 632.3 |
| 22.5° | 635.9 | 640.3 | 643.1 | 645.0 | 646.9 | 649.6 | 652.4 | 650.7 | 647.7 | 640.7 | 629.3 |
| 25° | 601.6 | 605.2 | 610.5 | 612.2 | 613.7 | 621.7 | 626.6 | 630.0 | 630.0 | 628.5 | 620.9 |
| 27.5° | 565.3 | 567.6 | 572.0 | 578.0 | 583.5 | 588.3 | 598.5 | 604.8 | 609.9 | 609.9 | 605.9 |
| 30° | 526.0 | 529.3 | 534.6 | 538.6 | 545.4 | 555.3 | 563.8 | 571.4 | 583.0 | 588.1 | 587.3 |
| 32.5° | 484.5 | 487.9 | 493.4 | 496.8 | 506.5 | 514.5 | 527.6 | 539.5 | 552.8 | 560.4 | 565.1 |
| 35° | 440.6 | 440.8 | 450.1 | 455.6 | 464.0 | 474.0 | 490.0 | 503.3 | 517.9 | 530.6 | 540.5 |
| 37.5° | 395.3 | 395.1 | 401.7 | 411.4 | 418.1 | 432.1 | 448.6 | 463.4 | 483.7 | 497.2 | 512.9 |
| 40° | 343.3 | 347.7 | 353.2 | 362.1 | 373.8 | 390.2 | 405.9 | 425.1 | 445.4 | 462.3 | 479.0 |
| 42.5° | 296.8 | 300.4 | 309.3 | 319.2 | 331.7 | 345.6 | 364.7 | 386.0 | 405.9 | 427.9 | 446.5 |
| 45° | 258.3 | 260.2 | 265.5 | 273.5 | 286.7 | 302.5 | 322.4 | 345.0 | 368.5 | 390.9 | 411.6 |
| 47.5° | 222.8 | 228.5 | 231.3 | 238.7 | 248.2 | 263.0 | 283.7 | 304.0 | 331.0 | 356.0 | 378.6 |
| 50° | 194.9 | 196.0 | 200.8 | 206.3 | 217.5 | 228.5 | 244.2 | 265.1 | 290.2 | 318.4 | 341.4 |
| 52.5° | 172.1 | 171.7 | 175.7 | 180.5 | 188.4 | 200.0 | 213.5 | 233.8 | 255.2 | 283.1 | 308.2 |
| 55° | 148.8 | 150.9 | 152.8 | 157.7 | 164.7 | 173.6 | 185.0 | 202.1 | 222.2 | 246.9 | 273.3 |
| 57.5° | 132.8 | 133.0 | 134.0 | 138.0 | 142.7 | 149.7 | 160.7 | 175.2 | 193.2 | 214.8 | 240.4 |
| 60° | 117.5 | 117.7 | 119.7 | 120.9 | 124.1 | 130.0 | 138.5 | 150.5 | 166.4 | 187.1 | 209.5 |
| 62.5° | 104.4 | 104.6 | 105.7 | 107.0 | 109.9 | 112.3 | 119.4 | 129.8 | 142.7 | 161.1 | 180.3 |
| 65° | 91.7 | 92.0 | 92.0 | 93.6 | 95.6 | 97.7 | 102.7 | 109.3 | 121.8 | 136.4 | 153.5 |
| 67.5° | 79.5 | 80.8 | 80.3 | 81.6 | 83.3 | 84.3 | 87.9 | 93.9 | 102.3 | 114.6 | 129.4 |
| 70° | 68.5 | 68.3 | 68.9 | 69.5 | 70.2 | 71.9 | 74.2 | 78.2 | 85.4 | 94.1 | 107.2 |
| 72.5° | 56.7 | 55.4 | 56.2 | 57.1 | 58.1 | 59.4 | 61.3 | 64.3 | 69.8 | 76.7 | 86.5 |
| 75° | 41.9 | 41.2 | 42.5 | 42.7 | 44.6 | 46.3 | 48.4 | 51.4 | 55.4 | 61.3 | 67.6 |
| 77.5° | 30.4 | 31.3 | 31.7 | 32.1 | 32.3 | 34.2 | 36.6 | 39.1 | 41.4 | 46.9 | 51.8 |
| 80° | 22.4 | 22.4 | 22.6 | 23.0 | 23.5 | 23.9 | 25.4 | 27.1 | 29.0 | 32.3 | 37.2 |
| 82.5° | 15.6 | 15.4 | 15.4 | 15.6 | 15.9 | 16.3 | 16.9 | 17.5 | 19.2 | 20.9 | 23.5 |
| 85° | 8.5 | 8.7 | 8.9 | 8.5 | 8.7 | 8.9 | 9.3 | 9.9 | 10.4 | 11.6 | 12.7 |
| 87.5° | 3.0 | 3.6 | 3.4 | 3.4 | 3.6 | 3.6 | 3.6 | 4.0 | 4.0 | 4.0 | 4.7 |
| 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: P242987

CATALOG NUMBER: S121DR-H305D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 |
| 2.5° | 541.8 | 541.2 | 539.5 | 536.1 | 533.8 | 529.6 | 528.7 | 528.5 | 524.7 | 519.0 | 518.6 |
| 5° | 561.9 | 557.0 | 553.0 | 547.1 | 541.2 | 534.0 | 529.8 | 526.8 | 520.0 | 511.6 | 507.8 |
| 7.5° | 580.3 | 573.3 | 565.1 | 555.8 | 547.1 | 537.0 | 529.6 | 523.6 | 513.7 | 502.9 | 496.4 |
| 10° | 595.1 | 586.4 | 576.1 | 563.6 | 551.7 | 538.4 | 528.1 | 519.2 | 506.1 | 492.8 | 483.9 |
| 12.5° | 605.2 | 595.5 | 583.7 | 569.1 | 554.7 | 539.5 | 524.5 | 513.3 | 496.8 | 481.4 | 469.9 |
| 15° | 616.6 | 600.6 | 588.3 | 571.8 | 554.9 | 536.7 | 520.9 | 504.8 | 485.8 | 468.5 | 453.7 |
| 17.5° | 619.4 | 604.6 | 590.0 | 571.8 | 554.3 | 532.1 | 513.7 | 495.9 | 474.8 | 453.4 | 439.1 |
| 20° | 621.9 | 605.0 | 587.1 | 567.4 | 549.0 | 526.2 | 505.5 | 484.7 | 460.2 | 437.2 | 419.2 |
| 22.5° | 620.0 | 603.5 | 583.5 | 561.3 | 541.4 | 517.9 | 495.5 | 472.7 | 445.2 | 421.1 | 400.8 |
| 25° | 614.5 | 599.3 | 578.6 | 554.3 | 530.4 | 506.5 | 483.0 | 458.7 | 428.9 | 401.0 | 378.6 |
| 27.5° | 603.3 | 589.8 | 569.9 | 544.1 | 519.0 | 492.6 | 468.0 | 442.7 | 410.7 | 382.2 | 358.3 |
| 30° | 588.3 | 577.5 | 557.5 | 531.7 | 504.4 | 476.1 | 450.9 | 425.1 | 391.9 | 360.9 | 335.5 |
| 32.5° | 567.6 | 560.0 | 542.7 | 517.5 | 488.1 | 458.1 | 432.3 | 406.1 | 370.6 | 341.0 | 315.2 |
| 35° | 544.4 | 540.8 | 525.3 | 500.2 | 469.7 | 438.2 | 410.5 | 383.7 | 350.9 | 319.6 | 294.9 |
| 37.5° | 517.1 | 519.6 | 505.7 | 480.7 | 449.2 | 417.1 | 387.9 | 361.9 | 328.7 | 298.7 | 274.4 |
| 40° | 490.0 | 493.8 | 483.3 | 460.0 | 427.2 | 394.0 | 364.5 | 336.5 | 305.7 | 279.3 | 255.2 |
| 42.5° | 460.0 | 467.6 | 459.4 | 436.7 | 404.8 | 369.7 | 338.9 | 312.9 | 283.5 | 259.2 | 238.0 |
| 45° | 428.1 | 437.8 | 434.4 | 411.4 | 379.9 | 345.4 | 312.9 | 285.8 | 262.1 | 240.6 | 221.3 |
| 47.5° | 395.7 | 406.9 | 405.5 | 386.2 | 356.0 | 320.7 | 288.6 | 261.9 | 240.1 | 222.8 | 206.7 |
| 50° | 362.5 | 374.0 | 374.2 | 357.1 | 328.9 | 295.3 | 260.9 | 236.8 | 219.4 | 204.2 | 191.1 |
| 52.5° | 330.2 | 341.6 | 341.8 | 328.5 | 300.4 | 267.6 | 235.9 | 213.9 | 199.1 | 187.3 | 176.3 |
| 55° | 296.4 | 309.7 | 311.0 | 298.1 | 273.1 | 241.6 | 212.5 | 191.5 | 178.4 | 170.8 | 161.3 |
| 57.5° | 262.1 | 276.5 | 279.0 | 268.7 | 244.6 | 215.2 | 190.7 | 170.6 | 160.0 | 154.7 | 147.6 |
| 60° | 230.2 | 244.4 | 248.4 | 236.6 | 216.7 | 191.5 | 168.1 | 151.1 | 142.7 | 138.5 | 133.4 |
| 62.5° | 200.8 | 215.0 | 217.1 | 207.0 | 187.3 | 166.2 | 148.4 | 133.0 | 126.0 | 122.8 | 118.8 |
| 65° | 172.1 | 184.8 | 187.5 | 178.4 | 160.7 | 143.1 | 127.5 | 116.3 | 110.1 | 107.4 | 104.9 |
| 67.5° | 145.7 | 157.5 | 159.4 | 151.1 | 136.4 | 121.3 | 109.9 | 100.2 | 96.0 | 92.4 | 91.3 |
| 70° | 120.7 | 131.5 | 133.2 | 124.9 | 113.3 | 101.0 | 91.5 | 84.8 | 80.8 | 78.6 | 77.2 |
| 72.5° | 97.7 | 106.1 | 107.6 | 102.5 | 93.4 | 82.7 | 75.3 | 69.5 | 67.0 | 65.1 | 64.5 |
| 75° | 76.3 | 84.6 | 84.8 | 80.3 | 72.9 | 65.5 | 59.8 | 56.9 | 53.9 | 52.0 | 51.6 |
| 77.5° | 58.6 | 63.2 | 63.8 | 61.5 | 54.3 | 49.7 | 45.2 | 43.1 | 42.1 | 40.2 | 40.2 |
| 80° | 41.9 | 44.6 | 45.7 | 42.3 | 38.9 | 34.9 | 32.6 | 30.9 | 30.0 | 28.8 | 28.8 |
| 82.5° | 26.0 | 28.3 | 29.6 | 27.1 | 25.4 | 23.3 | 21.6 | 20.5 | 19.9 | 19.2 | 19.0 |
| 85° | 14.2 | 15.9 | 15.9 | 15.0 | 13.5 | 12.5 | 11.8 | 11.4 | 11.2 | 11.0 | 10.8 |
| 87.5° | 5.1 | 6.3 | 5.7 | 5.9 | 5.3 | 5.1 | 4.9 | 4.9 | 5.1 | 4.7 | 4.7 |
| 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: P242987

CATALOG NUMBER: S121DR-H305D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 | 525.1 |
| 2.5° | 515.8 | 514.8 | 511.6 | 508.6 | 506.3 | 501.2 | 500.2 | 500.6 | 500.6 | 500.8 | 498.5 |
| 5° | 503.3 | 498.9 | 493.8 | 489.2 | 485.6 | 479.9 | 476.7 | 475.9 | 475.2 | 474.0 | 471.6 |
| 7.5° | 489.2 | 484.1 | 476.9 | 472.7 | 465.1 | 458.7 | 454.3 | 451.3 | 449.4 | 446.7 | 442.9 |
| 10° | 474.8 | 467.4 | 459.4 | 450.9 | 443.3 | 434.8 | 427.9 | 424.5 | 420.5 | 417.7 | 413.5 |
| 12.5° | 460.4 | 450.1 | 439.1 | 429.3 | 419.0 | 409.1 | 401.9 | 397.2 | 390.0 | 386.0 | 381.6 |
| 15° | 441.6 | 428.9 | 419.6 | 402.7 | 397.6 | 383.3 | 374.6 | 371.0 | 364.0 | 362.8 | 355.8 |
| 17.5° | 423.9 | 409.3 | 395.5 | 381.4 | 367.8 | 357.9 | 350.5 | 345.8 | 340.4 | 337.0 | 332.3 |
| 20° | 401.7 | 386.4 | 369.9 | 355.1 | 343.7 | 333.2 | 328.5 | 322.6 | 319.4 | 316.0 | 312.7 |
| 22.5° | 380.5 | 361.9 | 345.4 | 333.4 | 321.7 | 313.1 | 308.0 | 304.0 | 301.2 | 297.9 | 295.5 |
| 25° | 357.9 | 340.6 | 325.3 | 312.9 | 301.7 | 294.9 | 290.7 | 288.3 | 286.7 | 284.1 | 282.6 |
| 27.5° | 336.3 | 318.8 | 303.8 | 294.3 | 285.2 | 279.3 | 277.1 | 275.0 | 272.9 | 272.1 | 271.9 |
| 30° | 313.3 | 297.2 | 285.0 | 276.7 | 268.5 | 265.3 | 264.2 | 262.1 | 262.6 | 262.8 | 262.1 |
| 32.5° | 293.8 | 278.2 | 268.9 | 261.9 | 255.6 | 253.3 | 253.0 | 252.2 | 252.4 | 253.5 | 253.0 |
| 35° | 273.8 | 262.1 | 252.8 | 247.1 | 243.1 | 241.4 | 241.6 | 241.8 | 243.1 | 243.3 | 244.2 |
| 37.5° | 256.6 | 245.4 | 239.3 | 233.8 | 231.9 | 231.9 | 232.1 | 232.3 | 233.4 | 234.7 | 235.1 |
| 40° | 239.7 | 230.6 | 225.4 | 221.8 | 220.7 | 220.7 | 221.5 | 222.6 | 223.2 | 224.5 | 224.7 |
| 42.5° | 224.5 | 216.9 | 212.9 | 209.3 | 209.7 | 210.8 | 211.0 | 211.6 | 213.3 | 213.5 | 213.9 |
| 45° | 209.5 | 203.8 | 199.8 | 198.7 | 198.7 | 199.6 | 200.6 | 201.0 | 202.3 | 202.5 | 202.9 |
| 47.5° | 196.6 | 190.7 | 187.7 | 186.7 | 187.3 | 188.4 | 189.8 | 190.5 | 191.5 | 191.3 | 192.4 |
| 50° | 182.2 | 177.4 | 175.0 | 174.6 | 175.0 | 176.9 | 177.6 | 179.1 | 180.1 | 180.7 | 181.2 |
| 52.5° | 168.5 | 164.7 | 163.6 | 163.4 | 164.3 | 165.5 | 166.4 | 167.9 | 169.1 | 169.1 | 168.9 |
| 55° | 155.4 | 152.0 | 150.7 | 151.8 | 152.8 | 153.5 | 155.2 | 156.0 | 157.3 | 157.5 | 157.3 |
| 57.5° | 142.1 | 139.1 | 138.7 | 139.1 | 141.2 | 142.5 | 143.5 | 143.5 | 144.2 | 144.4 | 145.0 |
| 60° | 128.3 | 126.4 | 126.0 | 127.1 | 129.4 | 130.2 | 130.9 | 131.1 | 131.9 | 131.5 | 132.8 |
| 62.5° | 115.4 | 113.5 | 114.4 | 115.4 | 116.3 | 117.5 | 118.0 | 119.0 | 118.8 | 119.2 | 119.9 |
| 65° | 102.1 | 101.0 | 101.3 | 102.5 | 103.6 | 105.3 | 105.3 | 105.3 | 106.3 | 106.3 | 106.8 |
| 67.5° | 89.2 | 88.6 | 89.4 | 90.5 | 90.7 | 91.7 | 91.5 | 92.8 | 93.6 | 94.1 | 94.5 |
| 70° | 76.7 | 76.3 | 76.3 | 77.4 | 78.4 | 78.9 | 79.3 | 80.1 | 80.3 | 81.0 | 82.0 |
| 72.5° | 64.9 | 63.6 | 63.8 | 65.3 | 65.3 | 66.2 | 67.2 | 67.2 | 68.5 | 68.7 | 69.8 |
| 75° | 52.0 | 51.6 | 52.0 | 52.8 | 53.9 | 53.7 | 55.0 | 54.8 | 55.2 | 56.7 | 56.9 |
| 77.5° | 40.6 | 40.0 | 41.0 | 41.4 | 41.6 | 41.9 | 42.3 | 43.3 | 44.2 | 44.8 | 45.0 |
| 80° | 29.2 | 29.0 | 30.0 | 30.4 | 30.2 | 30.7 | 31.3 | 32.3 | 32.3 | 32.8 | 33.4 |
| 82.5° | 19.7 | 19.2 | 19.9 | 20.5 | 20.9 | 21.1 | 21.1 | 21.6 | 21.8 | 22.2 | 22.2 |
| 85° | 11.2 | 11.2 | 11.6 | 11.8 | 12.3 | 12.0 | 12.5 | 12.3 | 12.7 | 13.1 | 12.9 |
| 87.5° | 4.9 | 4.9 | 4.9 | 4.9 | 5.1 | 5.1 | 5.3 | 5.3 | 5.1 | 5.3 | 4.9 |
| 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: P242987

CATALOG NUMBER: S121DR-H305D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 525.1 | 525.1 | 525.1 | 525.1 |
| 2.5° | 497.6 | 498.1 | 497.0 | 495.9 |
| 5° | 471.4 | 469.9 | 468.5 | 468.0 |
| 7.5° | 442.0 | 442.0 | 438.4 | 439.3 |
| 10° | 410.5 | 409.3 | 406.5 | 406.7 |
| 12.5° | 379.9 | 378.8 | 377.3 | 376.7 |
| 15° | 352.2 | 352.8 | 353.9 | 348.0 |
| 17.5° | 330.4 | 328.7 | 327.9 | 326.8 |
| 20° | 311.0 | 310.1 | 308.4 | 308.2 |
| 22.5° | 296.0 | 294.1 | 293.6 | 293.8 |
| 25° | 281.6 | 281.6 | 281.6 | 280.3 |
| 27.5° | 271.4 | 271.4 | 270.8 | 271.0 |
| 30° | 262.6 | 263.0 | 262.3 | 262.6 |
| 32.5° | 254.1 | 254.3 | 253.9 | 253.7 |
| 35° | 244.6 | 245.2 | 245.0 | 245.2 |
| 37.5° | 235.5 | 235.9 | 235.5 | 235.5 |
| 40° | 225.1 | 226.2 | 226.0 | 225.4 |
| 42.5° | 214.8 | 214.8 | 215.4 | 215.2 |
| 45° | 204.0 | 203.6 | 203.6 | 204.2 |
| 47.5° | 192.6 | 193.4 | 193.0 | 193.2 |
| 50° | 182.0 | 181.8 | 181.2 | 181.0 |
| 52.5° | 169.5 | 170.0 | 169.8 | 168.7 |
| 55° | 157.5 | 157.5 | 157.3 | 157.3 |
| 57.5° | 144.6 | 145.2 | 145.0 | 145.0 |
| 60° | 132.3 | 132.8 | 133.0 | 132.8 |
| 62.5° | 119.9 | 120.1 | 119.9 | 120.1 |
| 65° | 107.8 | 107.8 | 107.6 | 108.2 |
| 67.5° | 94.7 | 94.9 | 94.7 | 95.1 |
| 70° | 82.2 | 82.7 | 82.9 | 82.4 |
| 72.5° | 70.4 | 70.0 | 70.2 | 69.8 |
| 75° | 57.3 | 57.5 | 57.3 | 57.5 |
| 77.5° | 45.0 | 45.2 | 45.0 | 45.2 |
| 80° | 33.2 | 33.2 | 33.4 | 33.0 |
| 82.5° | 22.4 | 22.4 | 23.0 | 22.4 |
| 85° | 13.1 | 13.1 | 12.7 | 13.5 |
| 87.5° | 5.1 | 5.1 | 5.1 | 5.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)