

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: P331933-930

Luminaire Tested: **S123DIP-S560D805U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331933-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D805U930-4F0-1E-UDD-D4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

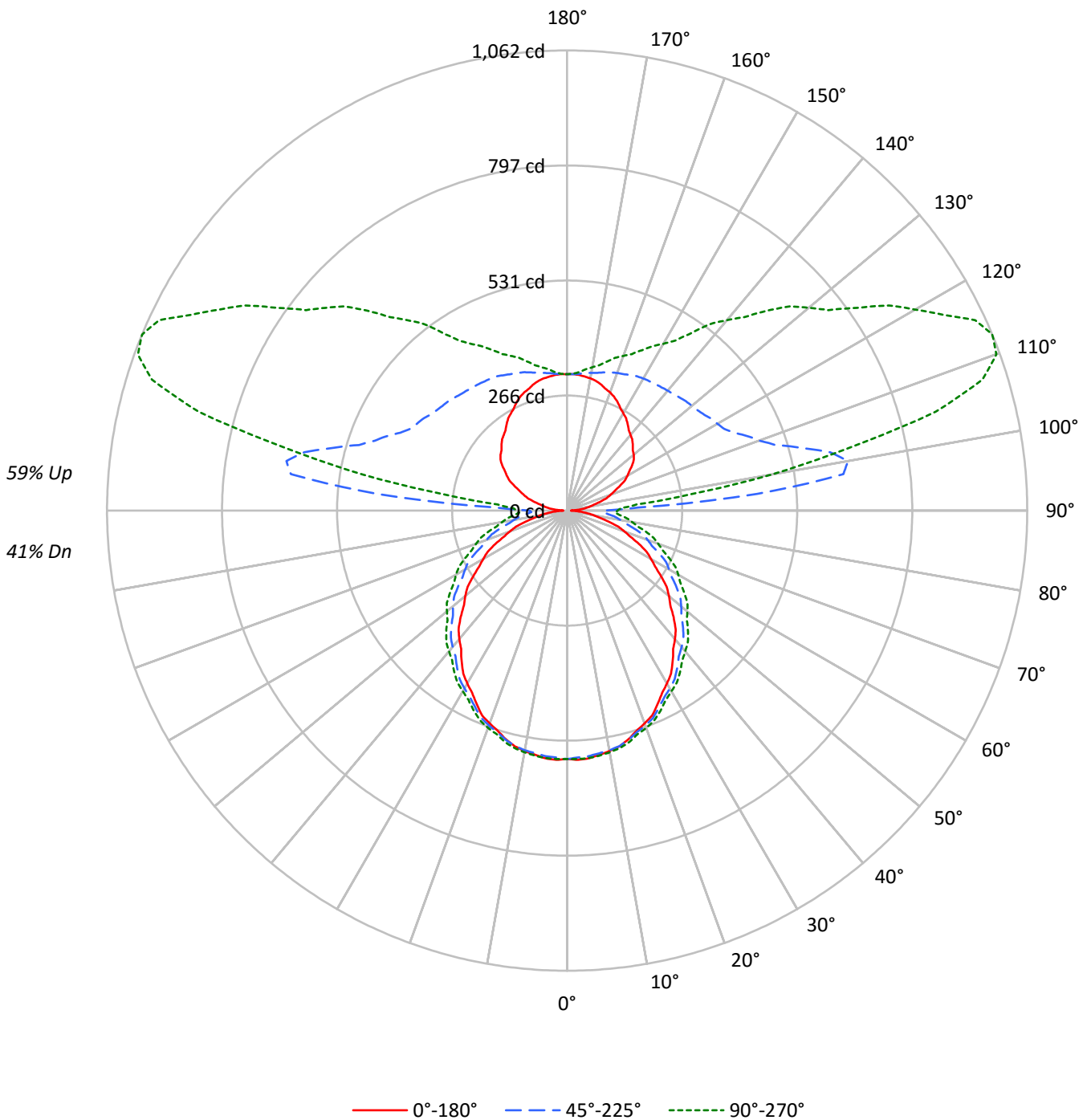
Lumens per Lamp: N/A
Luminaire Lumens: 4298.1 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: General Diffuse

Input Watts (W): 38.4
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: 25 FT



TEST NUMBER: P331933-930
CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331933-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-D4

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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 63 | 63 | 63 | 48 | 48 | 48 | 41 |
| 1 | 95 | 90 | 86 | 82 | 86 | 82 | 79 | 75 | 67 | 65 | 62 | 54 | 52 | 50 | 41 | 40 | 39 | 33 |
| 2 | 86 | 78 | 72 | 67 | 78 | 71 | 66 | 61 | 59 | 54 | 51 | 47 | 44 | 41 | 36 | 34 | 32 | 27 |
| 3 | 78 | 69 | 61 | 55 | 71 | 63 | 56 | 51 | 51 | 46 | 42 | 41 | 37 | 35 | 31 | 29 | 27 | 22 |
| 4 | 71 | 60 | 52 | 46 | 65 | 55 | 48 | 43 | 45 | 40 | 36 | 36 | 32 | 29 | 28 | 25 | 23 | 19 |
| 5 | 65 | 54 | 45 | 39 | 59 | 49 | 42 | 36 | 40 | 35 | 31 | 32 | 28 | 25 | 25 | 22 | 20 | 16 |
| 6 | 60 | 48 | 40 | 34 | 55 | 44 | 37 | 31 | 36 | 31 | 27 | 29 | 25 | 22 | 23 | 20 | 17 | 14 |
| 7 | 56 | 43 | 35 | 30 | 50 | 40 | 33 | 27 | 33 | 27 | 23 | 26 | 22 | 19 | 21 | 18 | 15 | 13 |
| 8 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 24 | 30 | 24 | 21 | 24 | 20 | 17 | 19 | 16 | 14 | 11 |
| 9 | 48 | 36 | 28 | 23 | 43 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |
| 10 | 45 | 33 | 25 | 21 | 41 | 30 | 24 | 19 | 25 | 20 | 16 | 20 | 17 | 14 | 16 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6171 | 6171 | 6171 |
| 5° | 6191 | 6015 | 6019 |
| 10° | 6135 | 5878 | 5848 |
| 15° | 6056 | 5720 | 5660 |
| 20° | 5943 | 5540 | 5454 |
| 25° | 5804 | 5333 | 5238 |
| 30° | 5660 | 5147 | 5019 |
| 35° | 5500 | 4950 | 4844 |
| 40° | 5347 | 4771 | 4656 |
| 45° | 5177 | 4599 | 4506 |
| 50° | 5010 | 4430 | 4341 |
| 55° | 4826 | 4256 | 4193 |
| 60° | 4646 | 4080 | 4040 |
| 65° | 4462 | 3891 | 3859 |
| 70° | 4185 | 3680 | 3673 |
| 75° | 3832 | 3437 | 3484 |
| 80° | 3426 | 3199 | 3268 |
| 85° | 3052 | 3034 | 3143 |



TEST NUMBER: P331933-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.4 | 1.3 |
| 10°-20° | 154.9 | 3.6 |
| 20°-30° | 231.7 | 5.4 |
| 30°-40° | 276.7 | 6.4 |
| 40°-50° | 289.5 | 6.7 |
| 50°-60° | 271.7 | 6.3 |
| 60°-70° | 226.9 | 5.3 |
| 70°-80° | 162.4 | 3.8 |
| 80°-90° | 99.3 | 2.3 |
| 90°-100° | 236.0 | 5.5 |
| 100°-110° | 540.8 | 12.6 |
| 110°-120° | 517.9 | 12.1 |
| 120°-130° | 406.4 | 9.5 |
| 130°-140° | 314.6 | 7.3 |
| 140°-150° | 230.8 | 5.4 |
| 150°-160° | 159.7 | 3.7 |
| 160°-170° | 93.8 | 2.2 |
| 170°-180° | 30.5 | 0.7 |
| 0°-30° | 441.0 | 10.3 |
| 0°-40° | 717.7 | 16.7 |
| 0°-60° | 1279.0 | 29.8 |
| 0°-90° | 1767.5 | 41.1 |
| 90°-120° | 1294.8 | 30.1 |
| 90°-150° | 2246.5 | 52.3 |
| 90°-180° | 2531.0 | 58.9 |
| 0°-180° | 4298.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 573 | 573 | 573 | 573 | 573 | |
| 5° | 574 | 573 | 569 | 574 | 573 | 54 |
| 15° | 546 | 548 | 548 | 554 | 553 | 154 |
| 25° | 493 | 499 | 502 | 509 | 510 | 227 |
| 35° | 425 | 435 | 443 | 452 | 455 | 266 |
| 45° | 347 | 362 | 378 | 389 | 395 | 268 |
| 55° | 265 | 286 | 308 | 324 | 330 | 237 |
| 65° | 183 | 208 | 235 | 253 | 260 | 181 |
| 75° | 99 | 129 | 160 | 180 | 188 | 106 |
| 85° | 31 | 62 | 95 | 115 | 122 | 32 |
| 90° | 9 | 46 | 86 | 109 | 116 | 7 |
| 95° | 28 | 102 | 440 | 191 | 161 | 29 |
| 105° | 79 | 130 | 559 | 960 | 881 | 84 |
| 115° | 134 | 174 | 425 | 907 | 1039 | 133 |
| 125° | 184 | 217 | 386 | 696 | 815 | 163 |
| 135° | 214 | 255 | 368 | 564 | 652 | 165 |
| 145° | 243 | 278 | 356 | 453 | 500 | 152 |
| 155° | 276 | 298 | 345 | 392 | 408 | 127 |
| 165° | 302 | 310 | 330 | 350 | 356 | 85 |
| 175° | 314 | 315 | 317 | 321 | 321 | 30 |
| 180° | 315 | 315 | 315 | 315 | 315 | |



TEST NUMBER: P331933-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 |
| 2.5° | 575.8 | 575.5 | 575.2 | 574.8 | 574.5 | 573.9 | 573.0 | 572.1 | 571.2 | 570.3 | 571.2 |
| 5° | 574.0 | 573.6 | 573.4 | 573.2 | 572.8 | 572.3 | 571.4 | 570.6 | 569.8 | 568.9 | 570.1 |
| 7.5° | 568.3 | 568.3 | 568.4 | 568.5 | 568.6 | 568.2 | 567.4 | 566.6 | 565.7 | 564.9 | 566.3 |
| 10° | 563.4 | 563.6 | 563.9 | 564.2 | 564.4 | 564.3 | 563.5 | 562.9 | 562.1 | 561.5 | 562.9 |
| 12.5° | 557.3 | 557.7 | 558.2 | 558.5 | 558.9 | 558.9 | 558.4 | 557.9 | 557.4 | 556.9 | 558.2 |
| 15° | 546.5 | 546.9 | 547.3 | 547.7 | 548.1 | 548.3 | 548.1 | 548.0 | 547.9 | 547.7 | 549.1 |
| 17.5° | 532.7 | 533.5 | 534.4 | 535.2 | 536.1 | 536.5 | 536.4 | 536.3 | 536.3 | 536.2 | 537.4 |
| 20° | 522.8 | 523.6 | 524.4 | 525.2 | 526.0 | 526.6 | 526.9 | 527.2 | 527.4 | 527.7 | 529.0 |
| 22.5° | 512.3 | 513.1 | 513.9 | 514.8 | 515.6 | 516.2 | 516.6 | 517.0 | 517.4 | 517.7 | 519.3 |
| 25° | 493.4 | 494.8 | 496.2 | 497.6 | 499.0 | 499.9 | 500.3 | 500.7 | 501.1 | 501.5 | 503.3 |
| 27.5° | 474.4 | 476.0 | 477.6 | 479.2 | 480.7 | 481.9 | 482.8 | 483.7 | 484.6 | 485.5 | 487.1 |
| 30° | 460.9 | 462.7 | 464.5 | 466.4 | 468.1 | 469.6 | 470.7 | 471.8 | 472.9 | 474.0 | 475.7 |
| 32.5° | 445.9 | 447.9 | 450.0 | 452.0 | 454.0 | 455.8 | 457.2 | 458.6 | 460.1 | 461.5 | 463.3 |
| 35° | 424.7 | 426.9 | 429.1 | 431.4 | 433.6 | 435.6 | 437.4 | 439.2 | 441.0 | 442.8 | 444.9 |
| 37.5° | 402.2 | 404.7 | 407.2 | 409.7 | 412.2 | 414.6 | 416.8 | 419.0 | 421.2 | 423.5 | 425.8 |
| 40° | 387.2 | 389.7 | 392.2 | 394.7 | 397.2 | 399.8 | 402.6 | 405.4 | 408.1 | 410.9 | 413.3 |
| 42.5° | 370.7 | 373.8 | 376.8 | 379.8 | 382.9 | 385.9 | 388.8 | 391.7 | 394.6 | 397.5 | 400.1 |
| 45° | 347.2 | 350.6 | 353.9 | 357.3 | 360.5 | 363.9 | 367.5 | 370.9 | 374.4 | 377.8 | 380.5 |
| 47.5° | 322.6 | 326.4 | 330.2 | 333.9 | 337.7 | 341.6 | 345.6 | 349.5 | 353.5 | 357.5 | 360.4 |
| 50° | 306.6 | 310.5 | 314.4 | 318.3 | 322.2 | 326.3 | 330.6 | 334.9 | 339.2 | 343.5 | 346.7 |
| 52.5° | 289.7 | 293.8 | 297.9 | 302.0 | 306.1 | 310.5 | 315.3 | 320.0 | 324.7 | 329.5 | 332.8 |
| 55° | 264.8 | 269.4 | 273.9 | 278.5 | 283.2 | 287.9 | 292.9 | 297.9 | 302.9 | 307.9 | 311.6 |
| 57.5° | 240.6 | 245.3 | 250.1 | 254.9 | 259.7 | 264.8 | 270.3 | 275.7 | 281.2 | 286.7 | 290.4 |
| 60° | 223.6 | 228.6 | 233.6 | 238.6 | 243.5 | 248.9 | 254.6 | 260.3 | 266.0 | 271.7 | 275.6 |
| 62.5° | 207.6 | 212.7 | 217.8 | 222.9 | 228.0 | 233.6 | 239.6 | 245.6 | 251.7 | 257.7 | 261.5 |
| 65° | 183.0 | 188.4 | 193.8 | 199.3 | 204.6 | 210.4 | 216.5 | 222.6 | 228.7 | 234.8 | 239.0 |
| 67.5° | 158.0 | 163.8 | 169.5 | 175.2 | 181.0 | 186.9 | 193.2 | 199.4 | 205.6 | 211.8 | 216.4 |
| 70° | 140.6 | 146.5 | 152.5 | 158.4 | 164.4 | 170.7 | 177.3 | 184.0 | 190.7 | 197.4 | 201.8 |
| 72.5° | 124.5 | 130.5 | 136.5 | 142.4 | 148.4 | 154.8 | 161.7 | 168.6 | 175.5 | 182.4 | 186.9 |
| 75° | 99.3 | 105.8 | 112.3 | 118.9 | 125.4 | 132.2 | 139.1 | 146.0 | 153.0 | 159.9 | 164.4 |
| 77.5° | 77.3 | 83.9 | 90.5 | 97.0 | 103.6 | 110.4 | 117.4 | 124.4 | 131.4 | 138.4 | 143.2 |
| 80° | 61.8 | 68.6 | 75.4 | 82.3 | 89.0 | 96.0 | 103.2 | 110.5 | 117.7 | 124.9 | 129.6 |
| 82.5° | 48.3 | 55.3 | 62.1 | 69.1 | 76.0 | 83.1 | 90.4 | 97.8 | 105.1 | 112.4 | 117.2 |
| 85° | 30.6 | 37.5 | 44.5 | 51.4 | 58.4 | 65.5 | 72.9 | 80.2 | 87.6 | 94.9 | 99.6 |
| 87.5° | 16.9 | 24.1 | 31.2 | 38.5 | 45.7 | 52.9 | 60.3 | 67.8 | 75.3 | 82.8 | 87.3 |
| 90° | 9.4 | 17.4 | 25.5 | 34.2 | 42.3 | 50.5 | 59.5 | 68.6 | 77.5 | 86.5 | 90.6 |
| 92.5° | 15.5 | 25.5 | 36.9 | 48.1 | 59.6 | 75.6 | 99.2 | 133.6 | 167.5 | 164.6 | 145.1 |
| 95° | 28.5 | 35.9 | 48.3 | 64.6 | 86.5 | 117.5 | 178.5 | 280.2 | 391.6 | 439.9 | 372.8 |
| 97.5° | 43.1 | 48.6 | 58.9 | 73.3 | 94.5 | 127.1 | 185.3 | 298.9 | 479.7 | 643.1 | 688.2 |
| 100° | 52.7 | 57.9 | 66.8 | 80.1 | 99.9 | 130.1 | 181.2 | 281.8 | 455.9 | 657.9 | 787.6 |
| 102.5° | 63.0 | 68.2 | 76.1 | 88.5 | 106.2 | 134.2 | 180.5 | 266.8 | 422.4 | 621.8 | 789.5 |
| 105° | 78.9 | 84.2 | 91.3 | 102.3 | 117.7 | 142.2 | 182.5 | 254.2 | 380.6 | 559.3 | 746.2 |
| 107.5° | 95.3 | 100.0 | 106.6 | 116.9 | 131.1 | 153.7 | 189.6 | 249.8 | 352.6 | 503.7 | 673.5 |
| 110° | 107.0 | 111.5 | 117.1 | 126.6 | 140.0 | 161.8 | 196.1 | 250.1 | 341.0 | 472.1 | 628.1 |



TEST NUMBER: P331933-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 118.2 | 122.2 | 127.4 | 136.5 | 149.4 | 170.4 | 202.4 | 252.6 | 333.1 | 449.8 | 587.7 |
| 115° | 133.8 | 138.0 | 143.5 | 151.6 | 164.0 | 184.6 | 213.8 | 257.7 | 327.7 | 425.1 | 538.7 |
| 117.5° | 149.9 | 153.8 | 158.0 | 164.9 | 178.1 | 196.9 | 225.5 | 264.9 | 324.7 | 408.5 | 507.2 |
| 120° | 160.6 | 163.2 | 167.1 | 174.1 | 186.9 | 205.5 | 233.0 | 270.8 | 324.4 | 400.4 | 490.2 |
| 122.5° | 170.2 | 172.5 | 176.1 | 183.4 | 195.3 | 214.6 | 241.4 | 276.4 | 325.7 | 394.4 | 476.0 |
| 125° | 183.5 | 184.8 | 188.7 | 195.7 | 207.7 | 227.0 | 253.3 | 285.4 | 327.7 | 385.9 | 457.0 |
| 127.5° | 194.1 | 195.9 | 200.5 | 207.5 | 220.7 | 239.5 | 264.4 | 292.9 | 330.7 | 379.8 | 439.8 |
| 130° | 200.7 | 202.5 | 208.1 | 215.6 | 228.9 | 247.4 | 271.3 | 298.2 | 332.9 | 375.8 | 430.1 |
| 132.5° | 205.4 | 207.7 | 213.9 | 223.1 | 236.4 | 254.3 | 277.0 | 303.0 | 333.9 | 372.8 | 420.9 |
| 135° | 214.2 | 216.5 | 223.4 | 232.8 | 246.1 | 264.0 | 285.3 | 308.5 | 335.5 | 368.3 | 408.4 |
| 137.5° | 222.4 | 225.0 | 231.8 | 241.9 | 255.0 | 271.3 | 291.1 | 312.7 | 336.2 | 363.9 | 397.5 |
| 140° | 227.6 | 230.7 | 237.1 | 247.3 | 260.1 | 276.2 | 295.1 | 314.6 | 336.7 | 361.3 | 390.9 |
| 142.5° | 233.7 | 236.2 | 243.0 | 252.1 | 264.7 | 279.6 | 297.7 | 316.3 | 336.6 | 358.3 | 384.6 |
| 145° | 243.4 | 245.2 | 250.9 | 260.2 | 271.0 | 285.6 | 302.1 | 319.4 | 337.2 | 356.3 | 377.8 |
| 147.5° | 252.8 | 254.0 | 259.6 | 267.8 | 278.3 | 290.8 | 306.0 | 321.4 | 337.2 | 353.9 | 371.7 |
| 150° | 259.4 | 260.1 | 265.1 | 273.5 | 282.3 | 293.8 | 308.5 | 321.9 | 337.2 | 351.9 | 367.8 |
| 152.5° | 266.0 | 266.2 | 271.3 | 278.6 | 286.4 | 297.4 | 310.1 | 322.9 | 335.7 | 349.3 | 363.7 |
| 155° | 276.0 | 276.0 | 279.8 | 286.2 | 293.2 | 302.1 | 313.0 | 323.2 | 334.0 | 344.9 | 357.6 |
| 157.5° | 283.9 | 284.4 | 287.5 | 293.1 | 299.1 | 306.0 | 314.6 | 323.8 | 331.8 | 340.9 | 350.7 |
| 160° | 290.0 | 290.0 | 292.6 | 297.7 | 302.1 | 308.5 | 316.2 | 323.8 | 330.8 | 337.9 | 346.1 |
| 162.5° | 294.6 | 294.6 | 296.7 | 300.8 | 304.7 | 310.1 | 316.7 | 323.3 | 328.8 | 334.8 | 341.5 |
| 165° | 301.5 | 300.8 | 302.1 | 305.3 | 307.9 | 312.3 | 317.4 | 321.9 | 325.7 | 330.2 | 335.3 |
| 167.5° | 306.7 | 306.0 | 306.6 | 309.0 | 310.8 | 313.6 | 317.3 | 320.9 | 322.7 | 325.6 | 329.3 |
| 170° | 309.8 | 308.5 | 309.2 | 311.0 | 312.3 | 313.6 | 316.8 | 319.4 | 320.7 | 322.5 | 325.7 |
| 172.5° | 311.9 | 311.0 | 311.2 | 312.6 | 313.3 | 314.1 | 316.8 | 318.9 | 319.1 | 320.0 | 322.1 |
| 175° | 314.2 | 313.6 | 313.0 | 314.2 | 314.2 | 314.9 | 316.2 | 317.4 | 316.8 | 316.8 | 318.0 |
| 177.5° | 315.4 | 314.9 | 314.4 | 314.9 | 314.9 | 314.9 | 315.4 | 316.4 | 315.4 | 314.9 | 315.4 |
| 180° | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 |



TEST NUMBER: P331933-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 |
| 2.5° | 572.1 | 573.0 | 573.9 | 574.3 | 574.1 | 574.1 | 574.0 | 573.8 |
| 5° | 571.2 | 572.3 | 573.4 | 573.9 | 573.7 | 573.6 | 573.5 | 573.3 |
| 7.5° | 567.7 | 569.1 | 570.5 | 571.1 | 571.0 | 570.8 | 570.6 | 570.5 |
| 10° | 564.3 | 565.7 | 567.0 | 567.5 | 567.3 | 567.0 | 566.7 | 566.5 |
| 12.5° | 559.5 | 560.8 | 562.1 | 562.6 | 562.3 | 562.0 | 561.7 | 561.5 |
| 15° | 550.5 | 551.9 | 553.3 | 553.9 | 553.8 | 553.6 | 553.5 | 553.3 |
| 17.5° | 538.7 | 540.0 | 541.2 | 541.8 | 541.5 | 541.4 | 541.2 | 541.0 |
| 20° | 530.3 | 531.5 | 532.7 | 533.5 | 533.5 | 533.7 | 533.9 | 533.9 |
| 22.5° | 520.9 | 522.5 | 524.1 | 524.8 | 524.7 | 524.6 | 524.6 | 524.5 |
| 25° | 505.1 | 507.0 | 508.7 | 509.6 | 509.6 | 509.6 | 509.6 | 509.6 |
| 27.5° | 488.6 | 490.2 | 491.7 | 492.6 | 492.7 | 492.8 | 492.9 | 493.0 |
| 30° | 477.4 | 479.0 | 480.7 | 481.5 | 481.5 | 481.5 | 481.5 | 481.5 |
| 32.5° | 465.0 | 466.8 | 468.6 | 469.7 | 470.0 | 470.3 | 470.7 | 471.0 |
| 35° | 446.9 | 449.1 | 451.1 | 452.4 | 453.0 | 453.6 | 454.1 | 454.7 |
| 37.5° | 428.1 | 430.5 | 432.8 | 434.3 | 434.7 | 435.1 | 435.6 | 436.0 |
| 40° | 415.6 | 418.0 | 420.4 | 421.8 | 422.4 | 423.0 | 423.5 | 424.0 |
| 42.5° | 402.6 | 405.2 | 407.8 | 409.4 | 410.3 | 411.0 | 411.8 | 412.5 |
| 45° | 383.1 | 385.7 | 388.4 | 390.3 | 391.3 | 392.5 | 393.6 | 394.7 |
| 47.5° | 363.5 | 366.4 | 369.3 | 371.3 | 372.1 | 373.0 | 373.9 | 374.7 |
| 50° | 349.8 | 353.1 | 356.3 | 358.3 | 359.3 | 360.3 | 361.3 | 362.2 |
| 52.5° | 336.1 | 339.4 | 342.8 | 345.0 | 346.2 | 347.3 | 348.5 | 349.8 |
| 55° | 315.4 | 319.1 | 322.9 | 325.3 | 326.4 | 327.5 | 328.6 | 329.8 |
| 57.5° | 294.2 | 298.0 | 301.7 | 304.3 | 305.6 | 306.9 | 308.2 | 309.5 |
| 60° | 279.5 | 283.3 | 287.2 | 289.9 | 291.5 | 292.9 | 294.5 | 296.0 |
| 62.5° | 265.5 | 269.4 | 273.2 | 275.9 | 277.3 | 278.7 | 280.1 | 281.5 |
| 65° | 243.1 | 247.3 | 251.5 | 254.3 | 255.7 | 257.1 | 258.4 | 259.8 |
| 67.5° | 220.9 | 225.5 | 230.1 | 232.9 | 234.1 | 235.2 | 236.4 | 237.6 |
| 70° | 206.3 | 210.7 | 215.2 | 218.0 | 219.4 | 220.8 | 222.2 | 223.6 |
| 72.5° | 191.4 | 196.0 | 200.6 | 203.6 | 205.0 | 206.4 | 207.7 | 209.1 |
| 75° | 169.0 | 173.7 | 178.2 | 181.3 | 183.0 | 184.7 | 186.3 | 188.0 |
| 77.5° | 148.1 | 152.9 | 157.7 | 160.8 | 162.1 | 163.3 | 164.6 | 165.9 |
| 80° | 134.4 | 139.1 | 143.8 | 146.8 | 148.2 | 149.6 | 151.0 | 152.4 |
| 82.5° | 121.9 | 126.5 | 131.3 | 134.4 | 135.7 | 137.1 | 138.5 | 139.9 |
| 85° | 104.4 | 109.1 | 113.8 | 116.8 | 118.2 | 119.6 | 121.0 | 122.4 |
| 87.5° | 92.2 | 97.0 | 101.9 | 105.2 | 106.5 | 107.9 | 109.5 | 110.7 |
| 90° | 96.0 | 101.3 | 106.6 | 111.0 | 111.7 | 113.7 | 115.8 | 116.5 |
| 92.5° | 129.5 | 122.9 | 122.6 | 122.2 | 122.4 | 121.7 | 123.7 | 123.8 |
| 95° | 299.9 | 230.2 | 200.8 | 180.7 | 170.0 | 165.6 | 162.6 | 161.3 |
| 97.5° | 637.6 | 527.9 | 449.8 | 376.3 | 330.7 | 303.4 | 287.6 | 283.5 |
| 100° | 813.9 | 766.3 | 695.8 | 608.0 | 544.9 | 499.8 | 476.3 | 478.3 |
| 102.5° | 870.3 | 872.6 | 833.1 | 778.3 | 729.6 | 694.1 | 674.7 | 661.5 |
| 105° | 883.3 | 950.9 | 966.9 | 952.8 | 924.8 | 901.8 | 882.6 | 880.8 |
| 107.5° | 828.3 | 935.6 | 995.2 | 1020.3 | 1022.0 | 1015.0 | 1009.4 | 1004.8 |
| 110° | 777.6 | 898.5 | 982.5 | 1029.5 | 1048.4 | 1054.6 | 1054.4 | 1054.3 |



TEST NUMBER: P331933-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 727.0 | 850.4 | 943.9 | 1003.6 | 1037.5 | 1054.5 | 1060.5 | 1062.0 |
| 115° | 660.0 | 774.2 | 871.2 | 943.0 | 991.9 | 1021.0 | 1034.9 | 1039.2 |
| 117.5° | 610.0 | 709.1 | 796.5 | 869.2 | 920.1 | 953.3 | 972.8 | 978.2 |
| 120° | 583.3 | 672.6 | 752.3 | 818.7 | 870.1 | 906.7 | 923.0 | 927.8 |
| 122.5° | 561.7 | 642.7 | 716.7 | 778.5 | 824.2 | 857.3 | 875.1 | 880.9 |
| 125° | 532.6 | 605.0 | 669.0 | 722.0 | 763.8 | 792.8 | 809.7 | 815.1 |
| 127.5° | 506.5 | 571.3 | 629.2 | 677.4 | 714.8 | 739.6 | 755.0 | 760.0 |
| 130° | 490.1 | 550.1 | 604.3 | 649.4 | 684.0 | 707.8 | 722.0 | 728.0 |
| 132.5° | 474.6 | 529.9 | 580.5 | 623.5 | 656.2 | 680.1 | 692.9 | 697.4 |
| 135° | 453.6 | 501.3 | 545.3 | 583.2 | 615.1 | 635.0 | 647.1 | 652.2 |
| 137.5° | 434.3 | 473.6 | 511.4 | 544.4 | 571.4 | 591.4 | 601.9 | 605.4 |
| 140° | 422.9 | 457.5 | 490.2 | 518.9 | 543.9 | 562.4 | 573.3 | 573.4 |
| 142.5° | 411.8 | 441.6 | 469.9 | 495.0 | 516.4 | 532.9 | 542.7 | 542.8 |
| 145° | 399.3 | 421.5 | 443.0 | 462.3 | 478.8 | 492.8 | 498.4 | 500.2 |
| 147.5° | 389.2 | 406.3 | 423.1 | 436.6 | 449.2 | 458.8 | 464.1 | 465.1 |
| 150° | 382.5 | 397.1 | 410.5 | 422.7 | 432.6 | 439.9 | 444.0 | 444.3 |
| 152.5° | 376.8 | 389.5 | 401.3 | 411.4 | 419.0 | 425.6 | 427.9 | 428.0 |
| 155° | 368.4 | 378.6 | 388.2 | 395.8 | 401.5 | 406.7 | 408.0 | 408.5 |
| 157.5° | 359.5 | 368.0 | 375.4 | 381.4 | 386.4 | 390.2 | 391.3 | 391.1 |
| 160° | 354.4 | 361.4 | 367.8 | 372.3 | 376.7 | 380.5 | 380.5 | 379.9 |
| 162.5° | 348.3 | 354.2 | 360.1 | 364.1 | 367.0 | 370.3 | 370.3 | 369.7 |
| 165° | 340.4 | 344.2 | 348.7 | 351.9 | 354.4 | 356.9 | 356.3 | 356.3 |
| 167.5° | 333.5 | 336.4 | 339.0 | 341.3 | 342.4 | 344.2 | 343.6 | 343.6 |
| 170° | 328.9 | 330.8 | 333.4 | 334.7 | 335.3 | 336.6 | 335.9 | 335.9 |
| 172.5° | 324.8 | 326.2 | 328.2 | 329.1 | 329.1 | 330.4 | 329.3 | 328.8 |
| 175° | 319.4 | 320.0 | 321.2 | 321.2 | 321.2 | 321.9 | 321.2 | 320.7 |
| 177.5° | 315.9 | 316.4 | 316.9 | 316.9 | 316.4 | 316.9 | 315.9 | 315.9 |
| 180° | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 |

(END OF REPORT)