

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: P332549-940

Luminaire Tested: **S124DIP-S575D590U940-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332549-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S575D590U940-4F0-1E-UDD-D4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3996.8 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

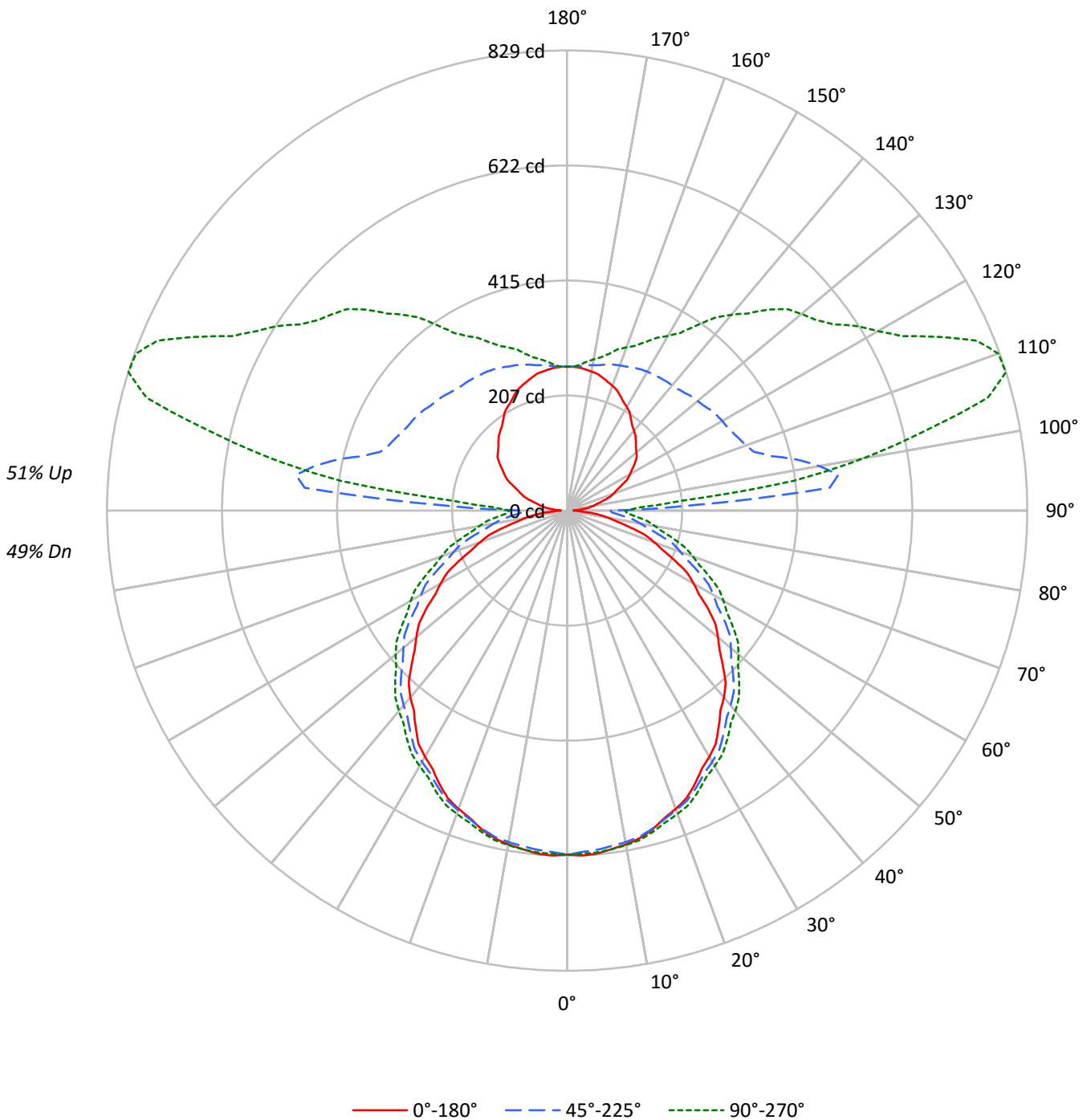
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332549-940

CATALOG NUMBER: S124DIP-S575D590U940-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P332549-940

CATALOG NUMBER: S124DIP-S575D590U940-4F0-1E-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 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | | 68 | 68 | 68 | | 55 | 55 | 55 | 49 |
| 1 | 97 | 92 | 88 | 84 | 89 | 85 | 81 | 78 | 71 | 68 | 66 | | 59 | 57 | 55 | | 47 | 46 | 45 | 39 |
| 2 | 87 | 80 | 73 | 68 | 80 | 73 | 68 | 63 | 62 | 57 | 54 | | 51 | 48 | 45 | | 41 | 39 | 37 | 32 |
| 3 | 80 | 70 | 62 | 56 | 73 | 64 | 57 | 52 | 54 | 49 | 45 | | 45 | 41 | 38 | | 36 | 33 | 31 | 27 |
| 4 | 73 | 61 | 53 | 47 | 66 | 57 | 49 | 44 | 48 | 42 | 38 | | 40 | 35 | 32 | | 32 | 29 | 26 | 22 |
| 5 | 67 | 54 | 46 | 40 | 61 | 50 | 43 | 37 | 43 | 37 | 32 | | 35 | 31 | 27 | | 29 | 25 | 23 | 19 |
| 6 | 61 | 49 | 40 | 34 | 56 | 45 | 38 | 32 | 38 | 32 | 28 | | 32 | 27 | 24 | | 26 | 22 | 20 | 17 |
| 7 | 56 | 44 | 36 | 30 | 52 | 41 | 33 | 28 | 35 | 29 | 25 | | 29 | 24 | 21 | | 24 | 20 | 17 | 15 |
| 8 | 52 | 40 | 32 | 26 | 48 | 37 | 30 | 25 | 31 | 26 | 22 | | 26 | 22 | 19 | | 22 | 18 | 16 | 13 |
| 9 | 49 | 36 | 29 | 23 | 45 | 34 | 27 | 22 | 29 | 23 | 19 | | 24 | 20 | 17 | | 20 | 16 | 14 | 12 |
| 10 | 45 | 33 | 26 | 21 | 42 | 31 | 24 | 20 | 26 | 21 | 17 | | 22 | 18 | 15 | | 18 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5002 | 5002 | 5002 |
| 5° | 5018 | 4889 | 4903 |
| 10° | 4987 | 4809 | 4805 |
| 15° | 4943 | 4717 | 4690 |
| 20° | 4875 | 4614 | 4579 |
| 25° | 4799 | 4500 | 4456 |
| 30° | 4717 | 4386 | 4330 |
| 35° | 4624 | 4269 | 4220 |
| 40° | 4550 | 4158 | 4105 |
| 45° | 4439 | 4056 | 4005 |
| 50° | 4344 | 3938 | 3901 |
| 55° | 4249 | 3827 | 3778 |
| 60° | 4098 | 3685 | 3667 |
| 65° | 3933 | 3533 | 3529 |
| 70° | 3733 | 3359 | 3369 |
| 75° | 3453 | 3169 | 3224 |
| 80° | 3143 | 2984 | 3082 |
| 85° | 2746 | 2820 | 2999 |



TEST NUMBER: P332549-940

CATALOG NUMBER: S124DIP-S575D590U940-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.7 | 1.5 |
| 10°-20° | 168.1 | 4.2 |
| 20°-30° | 254.2 | 6.4 |
| 30°-40° | 307.6 | 7.7 |
| 40°-50° | 325.2 | 8.1 |
| 50°-60° | 306.0 | 7.7 |
| 60°-70° | 253.9 | 6.4 |
| 70°-80° | 178.3 | 4.5 |
| 80°-90° | 102.3 | 2.6 |
| 90°-100° | 246.9 | 6.2 |
| 100°-110° | 433.5 | 10.8 |
| 110°-120° | 378.4 | 9.5 |
| 120°-130° | 310.0 | 7.8 |
| 130°-140° | 251.8 | 6.3 |
| 140°-150° | 188.3 | 4.7 |
| 150°-160° | 131.3 | 3.3 |
| 160°-170° | 77.2 | 1.9 |
| 170°-180° | 25.1 | 0.6 |
| 0°-30° | 481.0 | 12.0 |
| 0°-40° | 788.6 | 19.7 |
| 0°-60° | 1419.8 | 35.5 |
| 0°-90° | 1954.3 | 48.9 |
| 90°-120° | 1058.8 | 26.5 |
| 90°-150° | 1808.8 | 45.3 |
| 90°-180° | 2043.0 | 51.1 |
| 0°-180° | 3996.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 620 | 620 | 620 | 620 | 620 | |
| 5° | 620 | 618 | 613 | 619 | 618 | 59 |
| 15° | 595 | 595 | 593 | 599 | 599 | 167 |
| 25° | 544 | 548 | 550 | 558 | 559 | 250 |
| 35° | 476 | 484 | 491 | 501 | 503 | 298 |
| 45° | 397 | 410 | 423 | 435 | 438 | 307 |
| 55° | 311 | 326 | 346 | 360 | 364 | 277 |
| 65° | 215 | 237 | 261 | 278 | 284 | 213 |
| 75° | 119 | 145 | 174 | 193 | 200 | 127 |
| 85° | 37 | 66 | 97 | 117 | 125 | 39 |
| 90° | 12 | 43 | 78 | 98 | 105 | 8 |
| 95° | 26 | 85 | 475 | 284 | 210 | 26 |
| 105° | 66 | 107 | 380 | 781 | 784 | 70 |
| 115° | 109 | 143 | 330 | 619 | 740 | 108 |
| 125° | 149 | 177 | 316 | 519 | 585 | 133 |
| 135° | 175 | 208 | 300 | 449 | 512 | 135 |
| 145° | 201 | 229 | 292 | 368 | 407 | 126 |
| 155° | 227 | 245 | 284 | 321 | 335 | 105 |
| 165° | 248 | 255 | 272 | 288 | 292 | 70 |
| 175° | 258 | 259 | 261 | 264 | 264 | 25 |
| 180° | 259 | 259 | 259 | 259 | 259 | |



TEST NUMBER: P332549-940

CATALOG NUMBER: S124DIP-S575D590U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 |
| 2.5° | 621.9 | 621.5 | 621.2 | 620.7 | 620.4 | 619.7 | 618.8 | 617.8 | 616.7 | 615.7 | 616.6 |
| 5° | 620.4 | 619.9 | 619.4 | 618.9 | 618.5 | 617.7 | 616.6 | 615.5 | 614.5 | 613.4 | 614.7 |
| 7.5° | 615.1 | 614.7 | 614.5 | 614.2 | 613.9 | 613.4 | 612.5 | 611.6 | 610.6 | 609.8 | 611.2 |
| 10° | 610.6 | 610.5 | 610.3 | 610.2 | 610.0 | 609.6 | 608.8 | 608.0 | 607.3 | 606.5 | 607.9 |
| 12.5° | 604.5 | 604.5 | 604.5 | 604.4 | 604.4 | 604.1 | 603.6 | 603.1 | 602.5 | 602.0 | 603.2 |
| 15° | 594.7 | 594.9 | 594.9 | 595.1 | 595.3 | 595.1 | 594.7 | 594.2 | 593.7 | 593.3 | 594.7 |
| 17.5° | 581.2 | 581.7 | 582.1 | 582.6 | 583.1 | 583.3 | 583.2 | 583.1 | 583.0 | 582.9 | 584.2 |
| 20° | 571.8 | 572.2 | 572.7 | 573.2 | 573.6 | 573.9 | 574.1 | 574.3 | 574.4 | 574.5 | 576.0 |
| 22.5° | 561.2 | 561.8 | 562.4 | 562.9 | 563.6 | 564.0 | 564.3 | 564.5 | 564.8 | 565.1 | 566.7 |
| 25° | 544.0 | 544.9 | 545.9 | 546.8 | 547.7 | 548.4 | 548.8 | 549.3 | 549.8 | 550.3 | 552.0 |
| 27.5° | 524.9 | 526.2 | 527.5 | 529.0 | 530.3 | 531.3 | 532.0 | 532.7 | 533.4 | 534.1 | 535.7 |
| 30° | 512.1 | 513.4 | 514.5 | 515.8 | 517.0 | 518.2 | 519.2 | 520.3 | 521.4 | 522.5 | 524.2 |
| 32.5° | 498.2 | 499.7 | 501.1 | 502.7 | 504.2 | 505.5 | 506.7 | 507.9 | 509.1 | 510.3 | 512.2 |
| 35° | 476.0 | 477.9 | 479.7 | 481.5 | 483.4 | 485.1 | 486.6 | 488.2 | 489.7 | 491.2 | 493.5 |
| 37.5° | 453.7 | 455.8 | 457.9 | 460.0 | 462.2 | 464.2 | 466.1 | 468.1 | 469.9 | 471.8 | 474.0 |
| 40° | 439.3 | 441.2 | 443.3 | 445.2 | 447.3 | 449.3 | 451.5 | 453.6 | 455.8 | 458.0 | 460.3 |
| 42.5° | 422.6 | 424.8 | 427.0 | 429.4 | 431.6 | 434.0 | 436.5 | 439.0 | 441.6 | 444.1 | 446.7 |
| 45° | 396.9 | 399.8 | 402.8 | 405.7 | 408.6 | 411.5 | 414.5 | 417.4 | 420.4 | 423.3 | 425.9 |
| 47.5° | 372.4 | 375.3 | 378.4 | 381.4 | 384.4 | 387.6 | 391.0 | 394.4 | 397.8 | 401.2 | 403.9 |
| 50° | 354.5 | 357.9 | 361.3 | 364.8 | 368.2 | 371.6 | 375.0 | 378.4 | 381.7 | 385.1 | 388.2 |
| 52.5° | 336.8 | 340.2 | 343.6 | 347.0 | 350.4 | 354.0 | 357.9 | 361.8 | 365.7 | 369.5 | 372.6 |
| 55° | 310.9 | 314.1 | 317.4 | 320.6 | 323.8 | 327.7 | 332.3 | 337.0 | 341.6 | 346.3 | 349.4 |
| 57.5° | 281.9 | 285.9 | 289.9 | 293.9 | 297.9 | 302.2 | 306.7 | 311.4 | 316.0 | 320.6 | 324.2 |
| 60° | 263.0 | 267.0 | 271.0 | 275.0 | 279.0 | 283.6 | 288.6 | 293.7 | 298.8 | 303.9 | 307.5 |
| 62.5° | 244.7 | 249.1 | 253.4 | 257.8 | 262.2 | 266.9 | 272.0 | 277.1 | 282.2 | 287.3 | 290.8 |
| 65° | 215.1 | 220.1 | 225.0 | 229.9 | 234.9 | 240.0 | 245.1 | 250.4 | 255.7 | 260.9 | 264.7 |
| 67.5° | 186.6 | 191.9 | 197.2 | 202.4 | 207.6 | 213.0 | 218.6 | 224.3 | 229.9 | 235.5 | 239.4 |
| 70° | 167.2 | 172.5 | 177.7 | 183.0 | 188.2 | 193.8 | 199.6 | 205.5 | 211.3 | 217.2 | 221.3 |
| 72.5° | 148.4 | 153.7 | 159.1 | 164.4 | 169.8 | 175.6 | 181.8 | 188.1 | 194.3 | 200.5 | 204.6 |
| 75° | 119.3 | 125.0 | 130.7 | 136.4 | 142.1 | 148.3 | 154.7 | 161.2 | 167.7 | 174.2 | 178.5 |
| 77.5° | 92.3 | 98.4 | 104.4 | 110.4 | 116.5 | 122.9 | 129.7 | 136.4 | 143.2 | 150.0 | 154.4 |
| 80° | 75.6 | 81.8 | 88.0 | 94.2 | 100.3 | 106.7 | 113.6 | 120.4 | 127.2 | 133.9 | 138.6 |
| 82.5° | 58.9 | 65.4 | 71.8 | 78.2 | 84.6 | 91.2 | 98.0 | 104.8 | 111.6 | 118.4 | 123.1 |
| 85° | 36.7 | 43.2 | 49.8 | 56.2 | 62.7 | 69.4 | 76.3 | 83.3 | 90.2 | 97.1 | 101.7 |
| 87.5° | 20.6 | 27.1 | 33.7 | 40.1 | 46.5 | 53.1 | 60.4 | 67.1 | 74.1 | 81.1 | 85.4 |
| 90° | 11.6 | 18.8 | 26.5 | 33.2 | 39.9 | 46.3 | 55.9 | 62.6 | 70.2 | 77.8 | 81.9 |
| 92.5° | 16.3 | 24.5 | 34.9 | 46.6 | 59.6 | 76.2 | 108.8 | 154.9 | 199.9 | 226.7 | 204.1 |
| 95° | 25.8 | 32.5 | 42.6 | 54.3 | 71.6 | 98.6 | 149.3 | 239.0 | 366.8 | 474.9 | 490.8 |
| 97.5° | 38.3 | 42.7 | 51.5 | 61.9 | 76.8 | 100.0 | 140.4 | 215.4 | 342.6 | 492.7 | 595.7 |
| 100° | 46.3 | 50.3 | 57.9 | 67.9 | 81.7 | 102.9 | 138.9 | 202.5 | 312.3 | 461.7 | 596.1 |
| 102.5° | 54.4 | 58.8 | 65.5 | 74.6 | 87.4 | 107.5 | 140.6 | 197.1 | 291.3 | 424.4 | 562.7 |
| 105° | 65.7 | 70.4 | 76.0 | 85.2 | 97.5 | 116.5 | 146.7 | 194.7 | 271.5 | 379.5 | 502.9 |
| 107.5° | 79.6 | 83.2 | 88.3 | 97.3 | 108.6 | 127.1 | 154.9 | 198.8 | 265.0 | 352.7 | 454.1 |
| 110° | 88.5 | 91.7 | 96.3 | 104.6 | 115.9 | 133.4 | 161.2 | 202.2 | 263.6 | 342.7 | 429.2 |



TEST NUMBER: P332549-940

CATALOG NUMBER: S124DIP-S575D590U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 96.8 | 99.8 | 104.7 | 112.3 | 123.3 | 140.6 | 167.3 | 206.1 | 263.5 | 336.3 | 413.7 |
| 115° | 109.0 | 111.8 | 116.8 | 123.3 | 134.4 | 151.2 | 176.6 | 212.0 | 264.2 | 330.2 | 397.7 |
| 117.5° | 122.3 | 124.5 | 128.5 | 134.9 | 144.8 | 161.8 | 185.7 | 218.4 | 265.4 | 325.5 | 388.1 |
| 120° | 130.6 | 132.2 | 136.2 | 142.2 | 151.3 | 168.0 | 191.8 | 222.7 | 266.4 | 322.7 | 382.3 |
| 122.5° | 138.8 | 139.9 | 143.6 | 148.8 | 158.4 | 174.3 | 198.0 | 226.9 | 267.5 | 319.6 | 376.2 |
| 125° | 148.7 | 150.6 | 153.6 | 159.0 | 168.5 | 184.6 | 206.8 | 234.0 | 269.9 | 315.5 | 367.2 |
| 127.5° | 158.1 | 159.5 | 163.1 | 169.3 | 179.2 | 195.0 | 215.6 | 240.0 | 271.0 | 310.2 | 355.7 |
| 130° | 162.8 | 164.7 | 168.6 | 176.1 | 185.6 | 201.5 | 221.2 | 243.6 | 272.0 | 307.0 | 348.5 |
| 132.5° | 168.1 | 169.6 | 174.7 | 181.8 | 192.1 | 207.0 | 226.2 | 247.6 | 273.1 | 304.4 | 342.1 |
| 135° | 174.9 | 176.9 | 182.0 | 190.6 | 201.3 | 215.1 | 232.9 | 252.4 | 274.3 | 299.8 | 331.7 |
| 137.5° | 182.3 | 184.0 | 189.5 | 197.6 | 208.5 | 221.3 | 237.5 | 255.1 | 274.2 | 296.5 | 323.1 |
| 140° | 187.5 | 189.0 | 194.4 | 202.9 | 213.4 | 225.6 | 241.0 | 257.4 | 274.9 | 294.4 | 318.3 |
| 142.5° | 192.7 | 194.2 | 199.4 | 207.6 | 217.8 | 229.5 | 244.3 | 259.3 | 275.6 | 293.3 | 314.5 |
| 145° | 200.6 | 202.0 | 206.9 | 213.8 | 223.4 | 234.5 | 247.7 | 261.4 | 276.3 | 291.9 | 309.2 |
| 147.5° | 209.6 | 210.0 | 214.4 | 221.5 | 229.3 | 239.4 | 251.8 | 263.8 | 276.7 | 290.2 | 304.6 |
| 150° | 215.3 | 215.7 | 219.6 | 225.6 | 233.1 | 242.6 | 253.9 | 265.0 | 276.7 | 288.9 | 301.7 |
| 152.5° | 220.1 | 220.2 | 224.2 | 229.9 | 236.7 | 245.5 | 255.5 | 265.8 | 275.9 | 286.9 | 298.4 |
| 155° | 227.4 | 227.9 | 231.0 | 236.0 | 241.7 | 249.2 | 257.9 | 266.5 | 274.6 | 283.8 | 293.5 |
| 157.5° | 234.6 | 234.6 | 237.5 | 241.4 | 246.3 | 252.3 | 259.7 | 266.5 | 273.4 | 280.7 | 288.6 |
| 160° | 239.1 | 239.1 | 241.1 | 244.7 | 248.7 | 254.3 | 260.5 | 266.5 | 272.2 | 278.2 | 284.9 |
| 162.5° | 243.2 | 242.7 | 244.3 | 247.5 | 251.2 | 255.6 | 261.3 | 266.5 | 270.9 | 275.8 | 281.6 |
| 165° | 247.7 | 247.7 | 248.7 | 251.3 | 253.9 | 256.9 | 261.4 | 265.6 | 268.6 | 272.2 | 276.3 |
| 167.5° | 252.3 | 251.8 | 252.3 | 254.2 | 255.7 | 258.0 | 261.4 | 264.3 | 266.2 | 268.5 | 271.3 |
| 170° | 254.3 | 253.9 | 254.3 | 255.8 | 256.9 | 258.4 | 260.9 | 263.5 | 264.5 | 266.0 | 268.0 |
| 172.5° | 256.4 | 255.8 | 255.9 | 257.1 | 257.7 | 258.8 | 260.6 | 262.7 | 262.9 | 263.6 | 265.2 |
| 175° | 258.4 | 257.9 | 257.9 | 258.4 | 259.0 | 259.0 | 259.9 | 261.4 | 260.9 | 260.9 | 262.0 |
| 177.5° | 259.3 | 259.0 | 258.5 | 259.0 | 259.0 | 259.0 | 259.3 | 260.1 | 259.3 | 259.3 | 259.8 |
| 180° | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 |



TEST NUMBER: P332549-940

CATALOG NUMBER: S124DIP-S575D590U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 | 619.6 |
| 2.5° | 617.5 | 618.3 | 619.2 | 619.6 | 619.5 | 619.3 | 619.2 | 619.1 |
| 5° | 615.9 | 617.1 | 618.3 | 618.8 | 618.8 | 618.6 | 618.4 | 618.2 |
| 7.5° | 612.6 | 613.9 | 615.4 | 616.0 | 615.8 | 615.6 | 615.5 | 615.4 |
| 10° | 609.2 | 610.6 | 612.0 | 612.6 | 612.5 | 612.3 | 612.2 | 612.0 |
| 12.5° | 604.6 | 605.8 | 607.1 | 607.7 | 607.7 | 607.6 | 607.6 | 607.6 |
| 15° | 596.0 | 597.4 | 598.8 | 599.4 | 599.3 | 599.1 | 599.0 | 598.8 |
| 17.5° | 585.7 | 587.1 | 588.5 | 589.2 | 589.1 | 589.0 | 588.8 | 588.7 |
| 20° | 577.7 | 579.2 | 580.7 | 581.5 | 581.5 | 581.5 | 581.5 | 581.5 |
| 22.5° | 568.2 | 569.7 | 571.2 | 572.2 | 572.4 | 572.7 | 572.9 | 573.2 |
| 25° | 553.7 | 555.4 | 557.1 | 557.9 | 558.1 | 558.3 | 558.4 | 558.6 |
| 27.5° | 537.3 | 538.9 | 540.5 | 541.4 | 541.5 | 541.7 | 541.9 | 542.1 |
| 30° | 525.9 | 527.6 | 529.3 | 530.3 | 530.6 | 530.9 | 531.2 | 531.5 |
| 32.5° | 514.2 | 516.1 | 518.1 | 519.2 | 519.5 | 519.8 | 520.1 | 520.4 |
| 35° | 495.6 | 497.8 | 499.9 | 501.2 | 501.7 | 502.1 | 502.6 | 503.1 |
| 37.5° | 476.3 | 478.4 | 480.6 | 482.0 | 482.4 | 483.0 | 483.4 | 483.9 |
| 40° | 462.6 | 464.9 | 467.3 | 468.7 | 469.3 | 469.9 | 470.6 | 471.2 |
| 42.5° | 449.2 | 451.7 | 454.3 | 455.8 | 456.4 | 456.8 | 457.4 | 457.8 |
| 45° | 428.6 | 431.1 | 433.7 | 435.4 | 436.2 | 437.0 | 437.7 | 438.5 |
| 47.5° | 406.6 | 409.4 | 412.1 | 413.8 | 414.8 | 415.7 | 416.7 | 417.6 |
| 50° | 391.3 | 394.4 | 397.4 | 399.5 | 400.4 | 401.3 | 402.3 | 403.1 |
| 52.5° | 375.8 | 378.8 | 381.9 | 383.9 | 384.9 | 385.8 | 386.6 | 387.6 |
| 55° | 352.4 | 355.5 | 358.6 | 360.6 | 361.5 | 362.5 | 363.4 | 364.3 |
| 57.5° | 327.9 | 331.6 | 335.3 | 337.5 | 338.4 | 339.2 | 340.1 | 341.0 |
| 60° | 311.0 | 314.6 | 318.1 | 320.5 | 321.7 | 323.0 | 324.2 | 325.5 |
| 62.5° | 294.4 | 297.9 | 301.5 | 303.8 | 305.1 | 306.3 | 307.6 | 308.8 |
| 65° | 268.6 | 272.5 | 276.3 | 278.8 | 280.1 | 281.3 | 282.6 | 283.8 |
| 67.5° | 243.3 | 247.3 | 251.2 | 253.7 | 254.9 | 256.1 | 257.3 | 258.5 |
| 70° | 225.5 | 229.7 | 233.8 | 236.5 | 237.6 | 238.6 | 239.7 | 240.8 |
| 72.5° | 208.6 | 212.7 | 216.7 | 219.3 | 220.5 | 221.7 | 222.9 | 224.1 |
| 75° | 182.8 | 187.1 | 191.5 | 194.3 | 195.6 | 197.1 | 198.5 | 199.8 |
| 77.5° | 158.8 | 163.2 | 167.6 | 170.5 | 171.9 | 173.4 | 174.9 | 176.4 |
| 80° | 143.2 | 147.8 | 152.4 | 155.3 | 156.6 | 157.8 | 159.1 | 160.3 |
| 82.5° | 127.9 | 132.6 | 137.4 | 140.4 | 141.8 | 143.1 | 144.5 | 145.9 |
| 85° | 106.4 | 111.0 | 115.7 | 118.8 | 120.3 | 121.8 | 123.3 | 124.9 |
| 87.5° | 90.0 | 94.6 | 99.2 | 102.1 | 103.5 | 105.0 | 106.3 | 107.6 |
| 90° | 86.8 | 91.8 | 96.8 | 99.6 | 101.4 | 103.1 | 103.8 | 105.0 |
| 92.5° | 174.0 | 153.6 | 142.6 | 135.2 | 130.5 | 128.9 | 128.4 | 129.7 |
| 95° | 445.6 | 371.0 | 306.9 | 260.4 | 236.8 | 222.5 | 214.7 | 209.5 |
| 97.5° | 621.1 | 595.8 | 550.1 | 499.6 | 464.5 | 435.2 | 421.2 | 412.0 |
| 100° | 674.5 | 688.8 | 668.1 | 633.1 | 589.9 | 560.0 | 545.8 | 542.8 |
| 102.5° | 668.7 | 723.2 | 734.4 | 721.4 | 695.4 | 674.1 | 659.2 | 657.2 |
| 105° | 623.2 | 715.1 | 769.3 | 792.7 | 795.0 | 792.1 | 786.2 | 784.4 |
| 107.5° | 561.0 | 658.4 | 733.2 | 781.0 | 807.3 | 819.9 | 826.2 | 828.6 |
| 110° | 523.3 | 614.8 | 692.1 | 750.5 | 787.8 | 810.4 | 820.8 | 826.6 |



TEST NUMBER: P332549-940

CATALOG NUMBER: S124DIP-S575D590U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 494.6 | 575.9 | 649.0 | 707.2 | 749.5 | 776.6 | 790.6 | 799.2 |
| 115° | 464.7 | 530.6 | 593.5 | 644.6 | 685.8 | 717.5 | 734.8 | 739.9 |
| 117.5° | 447.5 | 502.5 | 552.5 | 596.1 | 631.6 | 658.5 | 676.2 | 680.6 |
| 120° | 438.8 | 489.2 | 533.0 | 571.2 | 601.5 | 625.1 | 639.5 | 646.4 |
| 122.5° | 431.1 | 479.9 | 520.0 | 553.8 | 579.3 | 599.6 | 611.9 | 618.6 |
| 125° | 419.0 | 465.7 | 503.7 | 533.6 | 554.9 | 570.6 | 581.1 | 585.1 |
| 127.5° | 404.4 | 449.0 | 486.7 | 515.1 | 536.7 | 550.8 | 560.1 | 564.2 |
| 130° | 393.4 | 436.4 | 473.8 | 502.6 | 524.3 | 538.0 | 547.1 | 551.1 |
| 132.5° | 382.5 | 422.8 | 459.2 | 488.0 | 509.3 | 524.7 | 533.3 | 537.3 |
| 135° | 366.2 | 401.8 | 435.2 | 462.4 | 483.7 | 498.8 | 507.9 | 511.8 |
| 137.5° | 352.0 | 382.2 | 410.5 | 435.1 | 454.9 | 469.7 | 477.2 | 481.6 |
| 140° | 343.7 | 369.6 | 394.5 | 417.2 | 435.8 | 447.7 | 455.7 | 460.5 |
| 142.5° | 336.4 | 359.2 | 380.6 | 400.3 | 416.7 | 427.8 | 434.7 | 438.2 |
| 145° | 326.4 | 344.6 | 360.8 | 375.8 | 389.1 | 398.4 | 404.1 | 407.2 |
| 147.5° | 318.2 | 332.0 | 344.4 | 355.9 | 365.7 | 373.6 | 378.0 | 379.4 |
| 150° | 313.9 | 325.6 | 335.7 | 344.9 | 353.0 | 359.6 | 362.7 | 363.2 |
| 152.5° | 309.3 | 319.4 | 328.8 | 336.4 | 343.2 | 348.7 | 350.4 | 351.0 |
| 155° | 302.6 | 310.8 | 318.4 | 324.5 | 329.7 | 333.7 | 335.2 | 335.2 |
| 157.5° | 295.4 | 302.3 | 308.6 | 313.5 | 317.4 | 320.5 | 321.4 | 321.4 |
| 160° | 291.0 | 296.6 | 302.1 | 306.2 | 309.2 | 312.4 | 312.8 | 312.8 |
| 162.5° | 286.5 | 291.2 | 295.6 | 299.3 | 301.6 | 304.6 | 305.1 | 304.7 |
| 165° | 280.3 | 283.3 | 286.9 | 289.4 | 291.5 | 293.5 | 293.0 | 292.5 |
| 167.5° | 274.3 | 276.6 | 279.5 | 281.0 | 282.0 | 283.3 | 283.2 | 282.9 |
| 170° | 270.6 | 272.2 | 274.2 | 275.7 | 276.7 | 277.2 | 276.7 | 276.7 |
| 172.5° | 267.3 | 268.5 | 269.7 | 270.8 | 271.4 | 272.0 | 271.4 | 270.6 |
| 175° | 263.0 | 263.5 | 264.5 | 264.5 | 264.5 | 265.6 | 264.5 | 263.5 |
| 177.5° | 260.1 | 260.6 | 260.6 | 260.9 | 260.6 | 260.9 | 260.1 | 259.3 |
| 180° | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 |

(END OF REPORT)