

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: P332244-930

Luminaire Tested: **S123RDIP-S340D365U930-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332244-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S340D365U930-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: General Diffuse

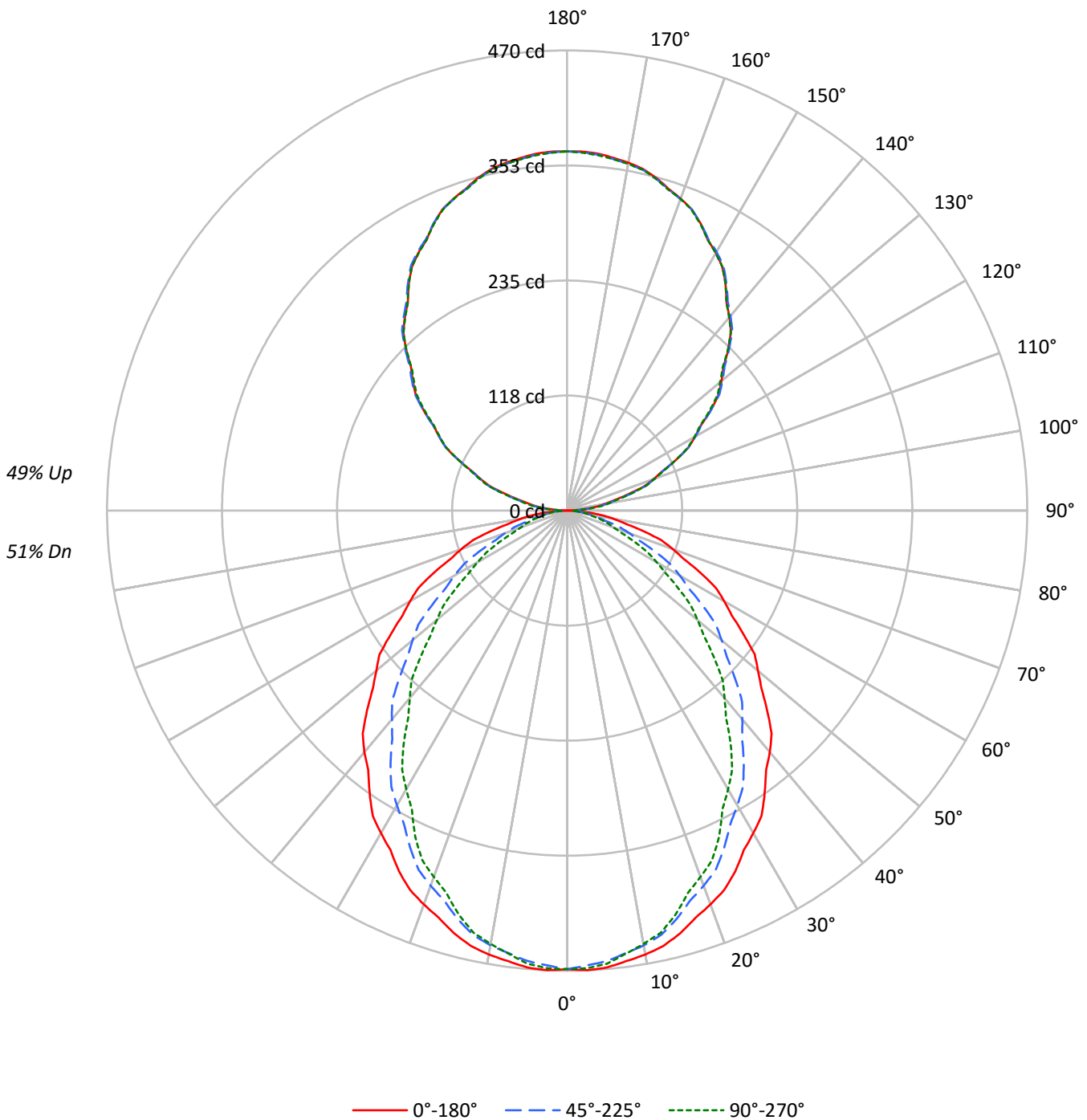
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332244-930

CATALOG NUMBER: S123RDIP-S340D365U930-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332244-930

CATALOG NUMBER: S123RDIP-S340D365U930-4F0-1E-UDD-F1

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 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1 | 98 | 94 | 90 | 87 | 91 | 87 | 84 | 81 | 74 | 72 | 70 | 62 | 60 | 59 | 51 | 50 | 49 | 44 |
| 2 | 90 | 83 | 77 | 72 | 83 | 77 | 71 | 67 | 65 | 61 | 58 | 55 | 52 | 50 | 45 | 43 | 42 | 37 |
| 3 | 82 | 73 | 66 | 60 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 49 | 45 | 42 | 40 | 38 | 36 | 32 |
| 4 | 75 | 65 | 57 | 51 | 69 | 60 | 53 | 48 | 52 | 46 | 42 | 44 | 40 | 37 | 36 | 33 | 31 | 28 |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 41 | 46 | 41 | 37 | 39 | 35 | 32 | 33 | 30 | 27 | 24 |
| 6 | 64 | 52 | 44 | 38 | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 36 | 31 | 28 | 30 | 27 | 24 | 21 |
| 7 | 59 | 47 | 39 | 34 | 55 | 44 | 37 | 32 | 38 | 32 | 28 | 33 | 28 | 25 | 27 | 24 | 22 | 19 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9 | 51 | 39 | 32 | 27 | 47 | 37 | 30 | 25 | 32 | 27 | 23 | 27 | 23 | 20 | 23 | 20 | 18 | 15 |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 22 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5042 | 5042 | 5042 |
| 5° | 5061 | 4991 | 5020 |
| 10° | 5032 | 4928 | 4912 |
| 15° | 4979 | 4813 | 4763 |
| 20° | 4904 | 4669 | 4560 |
| 25° | 4828 | 4507 | 4363 |
| 30° | 4727 | 4320 | 4084 |
| 35° | 4623 | 4133 | 3829 |
| 40° | 4526 | 3912 | 3513 |
| 45° | 4401 | 3694 | 3227 |
| 50° | 4262 | 3448 | 2907 |
| 55° | 4121 | 3166 | 2609 |
| 60° | 3991 | 2863 | 2282 |
| 65° | 3823 | 2534 | 1954 |
| 70° | 3610 | 2127 | 1577 |
| 75° | 3302 | 1676 | 1485 |
| 80° | 2944 | 1488 | 1364 |
| 85° | 2482 | 1309 | 1223 |



TEST NUMBER: P332244-930

CATALOG NUMBER: S123RDIP-S340D365U930-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 2.1 |
| 10°-20° | 122.4 | 5.9 |
| 20°-30° | 176.2 | 8.5 |
| 30°-40° | 198.5 | 9.6 |
| 40°-50° | 189.9 | 9.1 |
| 50°-60° | 155.5 | 7.5 |
| 60°-70° | 104.9 | 5.1 |
| 70°-80° | 52.8 | 2.5 |
| 80°-90° | 15.0 | 0.7 |
| 90°-100° | 23.9 | 1.2 |
| 100°-110° | 71.5 | 3.4 |
| 110°-120° | 121.6 | 5.9 |
| 120°-130° | 160.0 | 7.7 |
| 130°-140° | 179.8 | 8.7 |
| 140°-150° | 176.8 | 8.5 |
| 150°-160° | 148.8 | 7.2 |
| 160°-170° | 99.1 | 4.8 |
| 170°-180° | 34.7 | 1.7 |
| 0°-30° | 342.6 | 16.5 |
| 0°-40° | 541.1 | 26.1 |
| 0°-60° | 886.5 | 42.7 |
| 0°-90° | 1059.2 | 51.0 |
| 90°-120° | 217.1 | 10.5 |
| 90°-150° | 733.7 | 35.3 |
| 90°-180° | 1016.0 | 49.0 |
| 0°-180° | 2075.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 468 | 468 | 468 | 468 | 468 | |
| 5° | 468 | 466 | 462 | 465 | 465 | 44 |
| 15° | 447 | 442 | 432 | 430 | 427 | 126 |
| 25° | 406 | 396 | 380 | 372 | 367 | 187 |
| 35° | 352 | 338 | 314 | 299 | 291 | 220 |
| 45° | 289 | 271 | 243 | 222 | 212 | 223 |
| 55° | 220 | 200 | 169 | 147 | 139 | 197 |
| 65° | 150 | 129 | 100 | 82 | 77 | 148 |
| 75° | 79 | 61 | 40 | 37 | 36 | 85 |
| 85° | 20 | 12 | 11 | 10 | 10 | 23 |
| 90° | 0 | 3 | 7 | 8 | 9 | 2 |
| 95° | 17 | 19 | 21 | 22 | 22 | 19 |
| 105° | 65 | 66 | 68 | 68 | 69 | 69 |
| 115° | 122 | 123 | 123 | 123 | 123 | 121 |
| 125° | 179 | 180 | 180 | 178 | 177 | 160 |
| 135° | 232 | 234 | 234 | 233 | 232 | 179 |
| 145° | 282 | 283 | 284 | 283 | 282 | 176 |
| 155° | 323 | 323 | 323 | 324 | 322 | 149 |
| 165° | 352 | 351 | 351 | 352 | 351 | 99 |
| 175° | 366 | 365 | 365 | 366 | 364 | 35 |
| 180° | 367 | 367 | 367 | 367 | 367 | |



TEST NUMBER: P332244-930

CATALOG NUMBER: S123RDIP-S340D365U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 |
| 2.5° | 469.9 | 469.6 | 469.4 | 469.1 | 468.9 | 468.3 | 467.5 | 466.7 | 465.9 | 465.0 | 465.8 |
| 5° | 468.4 | 468.0 | 467.6 | 467.2 | 466.7 | 466.0 | 465.0 | 464.0 | 462.9 | 461.9 | 462.7 |
| 7.5° | 464.1 | 463.6 | 463.2 | 462.7 | 462.3 | 461.4 | 460.1 | 458.8 | 457.4 | 456.1 | 456.5 |
| 10° | 460.4 | 459.8 | 459.3 | 458.7 | 458.0 | 457.0 | 455.5 | 454.0 | 452.4 | 450.9 | 451.0 |
| 12.5° | 455.3 | 454.6 | 454.0 | 453.3 | 452.7 | 451.3 | 449.5 | 447.7 | 445.8 | 443.9 | 443.8 |
| 15° | 446.8 | 445.8 | 444.9 | 443.9 | 443.0 | 441.4 | 439.0 | 436.7 | 434.3 | 431.9 | 431.5 |
| 17.5° | 436.0 | 435.0 | 433.9 | 432.8 | 431.7 | 429.7 | 426.6 | 423.6 | 420.7 | 417.7 | 416.8 |
| 20° | 428.1 | 426.8 | 425.4 | 424.1 | 422.7 | 420.4 | 417.3 | 414.0 | 410.8 | 407.6 | 406.5 |
| 22.5° | 419.3 | 417.8 | 416.2 | 414.7 | 413.1 | 410.7 | 407.2 | 403.8 | 400.4 | 397.0 | 395.6 |
| 25° | 406.5 | 404.4 | 402.3 | 400.1 | 398.0 | 395.0 | 391.2 | 387.3 | 383.4 | 379.5 | 377.7 |
| 27.5° | 390.9 | 388.6 | 386.2 | 383.9 | 381.6 | 378.3 | 374.0 | 369.6 | 365.3 | 360.9 | 358.5 |
| 30° | 380.3 | 377.7 | 375.2 | 372.7 | 370.1 | 366.5 | 361.7 | 357.0 | 352.3 | 347.6 | 344.7 |
| 32.5° | 369.7 | 366.7 | 363.9 | 361.0 | 358.2 | 354.2 | 349.2 | 344.2 | 339.2 | 334.2 | 331.1 |
| 35° | 351.8 | 348.7 | 345.7 | 342.7 | 339.7 | 335.5 | 330.3 | 325.0 | 319.8 | 314.5 | 311.0 |
| 37.5° | 333.7 | 330.3 | 326.9 | 323.6 | 320.2 | 315.7 | 310.1 | 304.5 | 299.0 | 293.3 | 289.3 |
| 40° | 322.1 | 318.5 | 314.7 | 311.0 | 307.3 | 302.4 | 296.4 | 290.4 | 284.5 | 278.4 | 274.1 |
| 42.5° | 309.1 | 305.3 | 301.7 | 297.9 | 294.2 | 289.3 | 283.1 | 276.9 | 270.7 | 264.5 | 259.7 |
| 45° | 289.1 | 285.3 | 281.5 | 277.7 | 273.9 | 268.7 | 262.3 | 255.8 | 249.2 | 242.7 | 237.9 |
| 47.5° | 269.1 | 265.0 | 260.7 | 256.6 | 252.4 | 247.1 | 240.6 | 234.1 | 227.6 | 221.1 | 215.9 |
| 50° | 254.5 | 250.5 | 246.6 | 242.6 | 238.6 | 233.3 | 226.4 | 219.6 | 212.7 | 205.9 | 200.6 |
| 52.5° | 241.5 | 237.2 | 232.8 | 228.5 | 224.2 | 218.7 | 211.9 | 205.1 | 198.4 | 191.6 | 186.2 |
| 55° | 219.6 | 215.4 | 211.3 | 207.2 | 203.0 | 197.4 | 190.2 | 183.0 | 175.9 | 168.7 | 163.8 |
| 57.5° | 199.3 | 194.9 | 190.4 | 185.8 | 181.3 | 175.5 | 168.3 | 161.0 | 153.8 | 146.7 | 142.0 |
| 60° | 185.4 | 180.8 | 176.1 | 171.5 | 166.8 | 161.0 | 154.0 | 147.0 | 140.0 | 133.0 | 128.4 |
| 62.5° | 171.4 | 166.7 | 162.1 | 157.5 | 152.9 | 147.0 | 140.0 | 133.0 | 126.0 | 119.0 | 114.7 |
| 65° | 150.1 | 145.4 | 140.8 | 136.2 | 131.5 | 125.9 | 119.3 | 112.7 | 106.2 | 99.5 | 95.4 |
| 67.5° | 128.7 | 124.0 | 119.3 | 114.6 | 109.9 | 104.4 | 98.1 | 91.8 | 85.4 | 79.2 | 76.1 |
| 70° | 114.7 | 110.1 | 105.6 | 101.0 | 96.5 | 91.2 | 85.4 | 79.4 | 73.5 | 67.6 | 64.7 |
| 72.5° | 100.8 | 96.3 | 91.8 | 87.2 | 82.8 | 77.9 | 72.5 | 67.1 | 61.7 | 56.3 | 54.0 |
| 75° | 79.4 | 75.3 | 71.3 | 67.3 | 63.2 | 58.9 | 54.2 | 49.6 | 44.9 | 40.3 | 39.5 |
| 77.5° | 59.9 | 56.3 | 52.6 | 48.9 | 45.3 | 42.0 | 39.0 | 36.0 | 33.0 | 30.0 | 29.6 |
| 80° | 47.5 | 44.0 | 40.6 | 37.1 | 33.7 | 31.1 | 29.3 | 27.5 | 25.7 | 24.0 | 23.6 |
| 82.5° | 35.6 | 32.6 | 29.7 | 26.7 | 23.6 | 21.8 | 21.0 | 20.1 | 19.3 | 18.4 | 18.2 |
| 85° | 20.1 | 18.3 | 16.4 | 14.6 | 12.7 | 11.7 | 11.4 | 11.2 | 10.9 | 10.6 | 10.4 |
| 87.5° | 7.3 | 6.8 | 6.1 | 5.5 | 4.9 | 4.6 | 4.8 | 5.0 | 5.1 | 5.3 | 5.3 |
| 90° | 0.3 | 0.9 | 1.5 | 2.2 | 2.9 | 3.6 | 4.4 | 5.2 | 6.1 | 6.9 | 7.2 |
| 92.5° | 7.0 | 7.4 | 7.8 | 8.3 | 8.7 | 9.1 | 9.6 | 10.1 | 10.6 | 11.1 | 11.3 |
| 95° | 17.0 | 17.4 | 17.9 | 18.3 | 18.8 | 19.2 | 19.8 | 20.3 | 20.8 | 21.4 | 21.6 |
| 97.5° | 30.2 | 30.5 | 30.9 | 31.2 | 31.6 | 31.9 | 32.3 | 32.6 | 33.0 | 33.3 | 33.7 |
| 100° | 39.2 | 39.5 | 39.9 | 40.4 | 40.7 | 41.1 | 41.4 | 41.7 | 42.1 | 42.3 | 42.6 |
| 102.5° | 49.6 | 49.8 | 50.0 | 50.2 | 50.5 | 50.8 | 51.2 | 51.7 | 52.1 | 52.5 | 52.7 |
| 105° | 64.8 | 65.0 | 65.1 | 65.2 | 65.3 | 65.7 | 66.3 | 66.9 | 67.4 | 68.0 | 68.0 |
| 107.5° | 82.6 | 82.7 | 82.8 | 82.8 | 82.9 | 83.0 | 83.2 | 83.5 | 83.7 | 84.0 | 84.1 |
| 110° | 93.7 | 93.8 | 93.9 | 94.0 | 94.2 | 94.2 | 94.4 | 94.6 | 94.7 | 94.8 | 95.1 |



TEST NUMBER: P332244-930

CATALOG NUMBER: S123RDIP-S340D365U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 105.2 | 105.3 | 105.3 | 105.4 | 105.5 | 105.5 | 105.6 | 105.6 | 105.6 | 105.7 | 105.9 |
| 115° | 122.5 | 122.6 | 122.9 | 123.0 | 123.2 | 123.3 | 123.1 | 123.0 | 122.9 | 122.7 | 122.8 |
| 117.5° | 139.8 | 140.0 | 140.1 | 140.2 | 140.4 | 140.3 | 140.1 | 140.0 | 139.8 | 139.7 | 139.7 |
| 120° | 150.7 | 151.1 | 151.5 | 151.8 | 152.2 | 152.2 | 152.0 | 151.6 | 151.3 | 151.0 | 150.9 |
| 122.5° | 162.0 | 162.2 | 162.6 | 162.8 | 163.1 | 163.1 | 163.0 | 162.8 | 162.7 | 162.5 | 162.3 |
| 125° | 179.2 | 179.4 | 179.6 | 179.8 | 180.0 | 180.0 | 179.9 | 179.8 | 179.6 | 179.5 | 179.2 |
| 127.5° | 195.1 | 195.5 | 195.9 | 196.3 | 196.7 | 196.9 | 196.7 | 196.6 | 196.5 | 196.3 | 196.0 |
| 130° | 205.7 | 206.2 | 206.8 | 207.2 | 207.7 | 207.9 | 207.7 | 207.6 | 207.3 | 207.2 | 206.9 |
| 132.5° | 216.3 | 216.9 | 217.4 | 217.8 | 218.3 | 218.6 | 218.4 | 218.3 | 218.1 | 218.0 | 217.7 |
| 135° | 232.5 | 232.9 | 233.3 | 233.7 | 234.1 | 234.2 | 234.2 | 234.1 | 234.0 | 234.0 | 233.7 |
| 137.5° | 247.5 | 247.9 | 248.1 | 248.4 | 248.7 | 249.0 | 249.2 | 249.3 | 249.5 | 249.6 | 249.4 |
| 140° | 257.9 | 258.2 | 258.5 | 258.9 | 259.2 | 259.3 | 259.4 | 259.4 | 259.5 | 259.6 | 259.5 |
| 142.5° | 267.3 | 267.7 | 268.0 | 268.3 | 268.6 | 268.8 | 269.0 | 269.0 | 269.1 | 269.3 | 269.2 |
| 145° | 282.1 | 282.2 | 282.3 | 282.4 | 282.6 | 282.7 | 282.9 | 283.2 | 283.3 | 283.5 | 283.5 |
| 147.5° | 295.0 | 295.2 | 295.5 | 295.7 | 295.9 | 296.1 | 296.3 | 296.4 | 296.6 | 296.9 | 296.9 |
| 150° | 303.9 | 304.1 | 304.2 | 304.4 | 304.5 | 304.6 | 304.8 | 304.8 | 305.0 | 305.1 | 305.1 |
| 152.5° | 311.4 | 311.5 | 311.7 | 311.9 | 312.1 | 312.2 | 312.3 | 312.3 | 312.4 | 312.5 | 312.6 |
| 155° | 323.0 | 323.0 | 323.0 | 323.0 | 323.0 | 323.0 | 323.1 | 323.1 | 323.2 | 323.3 | 323.5 |
| 157.5° | 332.9 | 332.8 | 332.7 | 332.6 | 332.6 | 332.6 | 332.6 | 332.6 | 332.7 | 332.8 | 333.0 |
| 160° | 339.1 | 339.0 | 338.8 | 338.8 | 338.6 | 338.5 | 338.5 | 338.5 | 338.5 | 338.5 | 338.8 |
| 162.5° | 344.6 | 344.5 | 344.3 | 344.1 | 343.9 | 343.9 | 343.9 | 344.0 | 344.1 | 344.1 | 344.4 |
| 165° | 351.8 | 351.6 | 351.4 | 351.2 | 351.0 | 350.9 | 350.9 | 350.9 | 350.9 | 350.9 | 351.3 |
| 167.5° | 357.5 | 357.3 | 357.0 | 356.7 | 356.4 | 356.4 | 356.4 | 356.4 | 356.5 | 356.6 | 356.9 |
| 170° | 360.7 | 360.4 | 360.2 | 360.0 | 359.7 | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 | 360.0 |
| 172.5° | 363.3 | 363.0 | 362.7 | 362.5 | 362.2 | 362.1 | 362.1 | 362.1 | 362.1 | 362.1 | 362.5 |
| 175° | 365.9 | 365.7 | 365.4 | 365.2 | 364.9 | 364.8 | 364.8 | 364.8 | 364.8 | 364.8 | 365.2 |
| 177.5° | 367.0 | 366.8 | 366.6 | 366.4 | 366.2 | 366.1 | 366.1 | 366.1 | 366.1 | 366.1 | 366.4 |
| 180° | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 |



TEST NUMBER: P332244-930

CATALOG NUMBER: S123RDIP-S340D365U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 |
| 2.5° | 466.5 | 467.2 | 468.1 | 468.3 | 468.2 | 468.1 | 467.9 | 467.8 |
| 5° | 463.5 | 464.2 | 465.0 | 465.3 | 465.1 | 465.0 | 464.8 | 464.6 |
| 7.5° | 457.0 | 457.4 | 457.8 | 457.9 | 457.5 | 457.3 | 457.0 | 456.7 |
| 10° | 451.1 | 451.2 | 451.3 | 451.1 | 450.7 | 450.3 | 449.8 | 449.4 |
| 12.5° | 443.8 | 443.8 | 443.8 | 443.4 | 443.0 | 442.5 | 442.0 | 441.5 |
| 15° | 431.0 | 430.6 | 430.2 | 429.7 | 429.2 | 428.5 | 428.0 | 427.4 |
| 17.5° | 415.9 | 415.0 | 414.1 | 413.2 | 412.3 | 411.4 | 410.6 | 409.7 |
| 20° | 405.4 | 404.3 | 403.2 | 402.2 | 401.1 | 400.1 | 399.2 | 398.1 |
| 22.5° | 394.3 | 392.9 | 391.5 | 390.4 | 389.4 | 388.5 | 387.5 | 386.6 |
| 25° | 375.9 | 374.2 | 372.4 | 371.0 | 370.1 | 369.2 | 368.3 | 367.4 |
| 27.5° | 356.0 | 353.6 | 351.1 | 349.2 | 347.7 | 346.3 | 345.0 | 343.5 |
| 30° | 341.9 | 339.0 | 336.1 | 334.0 | 332.6 | 331.3 | 330.0 | 328.6 |
| 32.5° | 327.9 | 324.8 | 321.6 | 319.4 | 318.0 | 316.6 | 315.1 | 313.7 |
| 35° | 307.3 | 303.6 | 300.0 | 297.4 | 296.0 | 294.4 | 292.9 | 291.4 |
| 37.5° | 285.1 | 281.0 | 276.9 | 273.9 | 272.0 | 270.1 | 268.2 | 266.4 |
| 40° | 269.7 | 265.3 | 260.9 | 257.7 | 255.8 | 253.9 | 251.9 | 250.0 |
| 42.5° | 254.9 | 250.1 | 245.3 | 242.1 | 240.3 | 238.6 | 236.8 | 235.1 |
| 45° | 233.1 | 228.3 | 223.5 | 220.0 | 218.1 | 216.1 | 214.0 | 212.0 |
| 47.5° | 210.6 | 205.4 | 200.2 | 196.7 | 194.9 | 193.1 | 191.2 | 189.4 |
| 50° | 195.4 | 190.2 | 185.0 | 181.4 | 179.4 | 177.5 | 175.5 | 173.6 |
| 52.5° | 180.8 | 175.3 | 169.9 | 166.3 | 164.5 | 162.8 | 161.1 | 159.3 |
| 55° | 158.9 | 154.0 | 149.1 | 145.8 | 144.1 | 142.4 | 140.7 | 139.0 |
| 57.5° | 137.4 | 132.7 | 128.2 | 125.1 | 123.7 | 122.2 | 120.8 | 119.4 |
| 60° | 123.8 | 119.3 | 114.7 | 111.7 | 110.3 | 108.8 | 107.5 | 106.0 |
| 62.5° | 110.4 | 106.2 | 101.8 | 98.9 | 97.4 | 96.0 | 94.4 | 92.9 |
| 65° | 91.2 | 87.2 | 83.0 | 80.5 | 79.5 | 78.6 | 77.7 | 76.7 |
| 67.5° | 73.0 | 69.9 | 66.8 | 64.7 | 63.8 | 62.8 | 61.8 | 60.8 |
| 70° | 61.7 | 58.8 | 55.8 | 53.9 | 52.9 | 52.0 | 51.0 | 50.1 |
| 72.5° | 51.5 | 49.2 | 46.7 | 45.3 | 44.9 | 44.5 | 44.2 | 43.8 |
| 75° | 38.6 | 37.7 | 36.9 | 36.4 | 36.2 | 36.0 | 35.9 | 35.7 |
| 77.5° | 29.1 | 28.6 | 28.2 | 27.9 | 27.7 | 27.6 | 27.4 | 27.2 |
| 80° | 23.4 | 23.2 | 22.9 | 22.7 | 22.5 | 22.3 | 22.2 | 22.0 |
| 82.5° | 17.9 | 17.7 | 17.4 | 17.3 | 17.3 | 17.2 | 17.2 | 17.2 |
| 85° | 10.3 | 10.1 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 87.5° | 5.3 | 5.3 | 5.3 | 5.2 | 5.2 | 5.1 | 5.1 | 5.1 |
| 90° | 7.4 | 7.7 | 7.9 | 8.2 | 8.2 | 8.4 | 8.5 | 8.6 |
| 92.5° | 11.5 | 11.7 | 11.9 | 12.0 | 11.9 | 11.8 | 11.7 | 11.7 |
| 95° | 21.9 | 22.1 | 22.3 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 |
| 97.5° | 33.9 | 34.2 | 34.6 | 34.7 | 34.7 | 34.7 | 34.6 | 34.6 |
| 100° | 42.7 | 43.0 | 43.1 | 43.3 | 43.4 | 43.5 | 43.7 | 43.8 |
| 102.5° | 52.9 | 53.1 | 53.2 | 53.3 | 53.3 | 53.3 | 53.2 | 53.2 |
| 105° | 68.0 | 68.0 | 68.0 | 68.1 | 68.2 | 68.3 | 68.5 | 68.6 |
| 107.5° | 84.4 | 84.5 | 84.8 | 84.9 | 84.8 | 84.7 | 84.6 | 84.5 |
| 110° | 95.3 | 95.6 | 95.8 | 95.9 | 95.7 | 95.6 | 95.5 | 95.4 |



TEST NUMBER: P332244-930

CATALOG NUMBER: S123RDIP-S340D365U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 106.2 | 106.6 | 106.9 | 107.0 | 107.0 | 107.0 | 106.9 | 106.9 |
| 115° | 122.9 | 122.9 | 123.0 | 123.0 | 122.9 | 122.9 | 122.8 | 122.7 |
| 117.5° | 139.7 | 139.7 | 139.7 | 139.5 | 139.3 | 139.2 | 139.0 | 138.8 |
| 120° | 150.8 | 150.7 | 150.7 | 150.6 | 150.5 | 150.3 | 150.3 | 150.1 |
| 122.5° | 162.2 | 162.0 | 161.8 | 161.7 | 161.5 | 161.3 | 161.1 | 160.9 |
| 125° | 179.0 | 178.7 | 178.5 | 178.2 | 178.0 | 177.7 | 177.4 | 177.2 |
| 127.5° | 195.6 | 195.3 | 194.9 | 194.5 | 194.3 | 194.0 | 193.7 | 193.4 |
| 130° | 206.7 | 206.4 | 206.1 | 205.8 | 205.4 | 204.9 | 204.5 | 204.0 |
| 132.5° | 217.4 | 217.0 | 216.8 | 216.5 | 216.1 | 215.7 | 215.4 | 215.1 |
| 135° | 233.4 | 233.2 | 232.9 | 232.8 | 232.6 | 232.4 | 232.4 | 232.2 |
| 137.5° | 249.2 | 248.9 | 248.6 | 248.3 | 248.1 | 247.9 | 247.6 | 247.4 |
| 140° | 259.4 | 259.4 | 259.3 | 259.1 | 258.6 | 258.2 | 257.7 | 257.3 |
| 142.5° | 269.1 | 269.0 | 269.0 | 268.8 | 268.5 | 268.2 | 267.7 | 267.4 |
| 145° | 283.4 | 283.3 | 283.2 | 283.1 | 282.8 | 282.6 | 282.3 | 282.1 |
| 147.5° | 296.9 | 296.9 | 296.9 | 296.6 | 296.3 | 295.9 | 295.5 | 295.1 |
| 150° | 305.1 | 305.1 | 305.1 | 304.9 | 304.5 | 304.2 | 303.8 | 303.4 |
| 152.5° | 312.7 | 312.8 | 312.9 | 312.7 | 312.4 | 312.1 | 311.8 | 311.4 |
| 155° | 323.8 | 324.0 | 324.3 | 324.2 | 323.8 | 323.3 | 322.9 | 322.4 |
| 157.5° | 333.3 | 333.6 | 333.9 | 333.8 | 333.5 | 333.1 | 332.7 | 332.4 |
| 160° | 339.2 | 339.5 | 339.8 | 339.8 | 339.6 | 339.3 | 339.1 | 338.8 |
| 162.5° | 344.7 | 345.0 | 345.4 | 345.3 | 344.9 | 344.5 | 344.1 | 343.6 |
| 165° | 351.7 | 352.0 | 352.5 | 352.5 | 352.0 | 351.6 | 351.1 | 350.7 |
| 167.5° | 357.3 | 357.8 | 358.2 | 358.2 | 357.8 | 357.3 | 356.9 | 356.6 |
| 170° | 360.4 | 360.9 | 361.3 | 361.3 | 360.9 | 360.4 | 360.0 | 359.5 |
| 172.5° | 362.9 | 363.3 | 363.7 | 363.7 | 363.2 | 362.8 | 362.3 | 361.9 |
| 175° | 365.5 | 365.9 | 366.3 | 366.2 | 365.8 | 365.3 | 364.9 | 364.4 |
| 177.5° | 366.7 | 367.0 | 367.3 | 367.3 | 367.0 | 366.6 | 366.2 | 365.8 |
| 180° | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 | 366.8 |

(END OF REPORT)