

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: P331872-935

Luminaire Tested: **S123DIP-S340D365U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331872-935
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: S123DIP-S340D365U935-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2288.4 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: General Diffuse

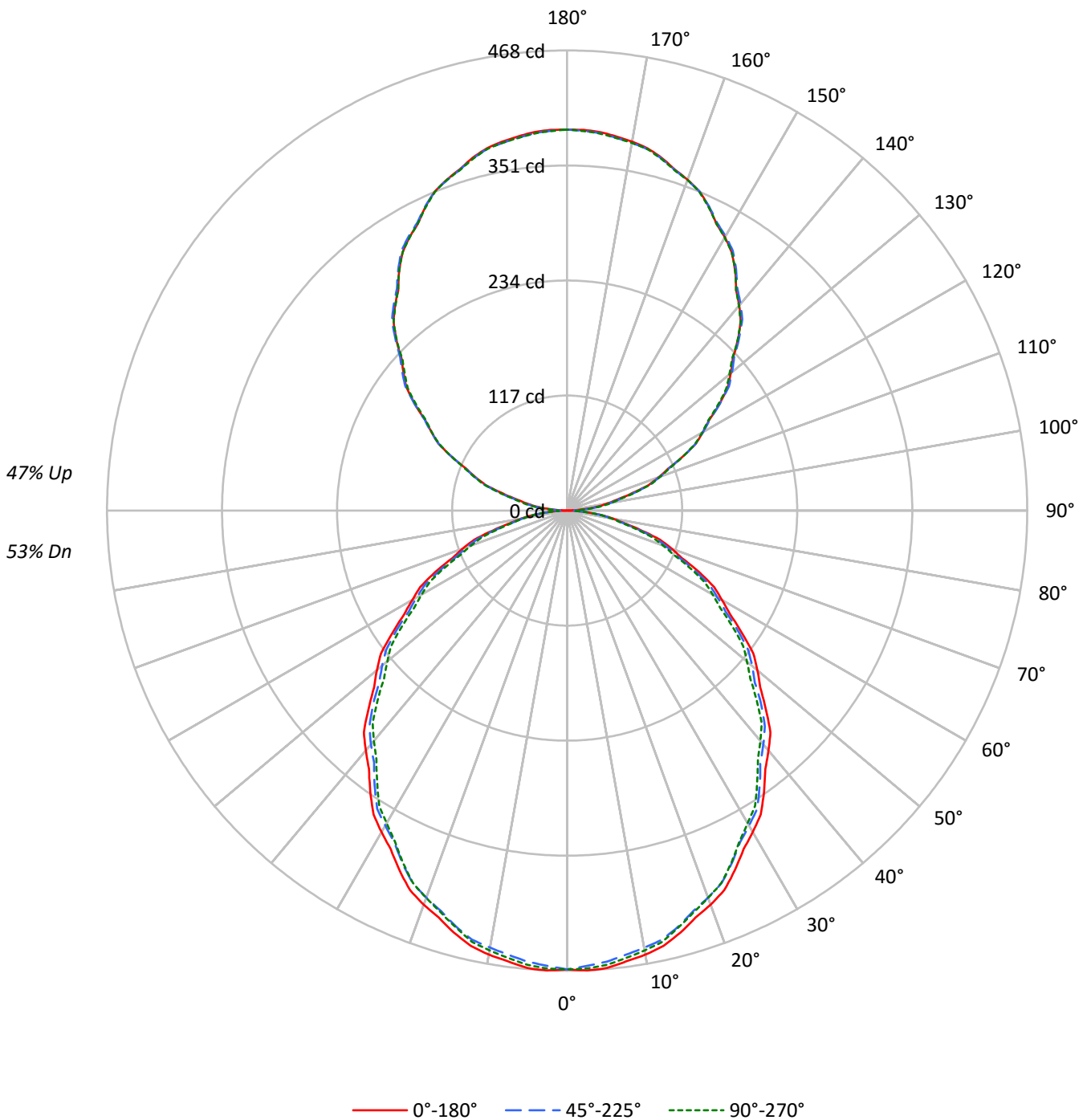
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331872-935

CATALOG NUMBER: S123DIP-S340D365U935-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331872-935

CATALOG NUMBER: S123DIP-S340D365U935-4F0-1E-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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 | 53 |
| 1 | 98 | 94 | 90 | 87 | 91 | 87 | 84 | 81 | 74 | 72 | 70 | 63 | 61 | 59 | 52 | 51 | 50 | 45 |
| 2 | 90 | 82 | 76 | 71 | 83 | 76 | 71 | 66 | 65 | 61 | 58 | 55 | 52 | 50 | 46 | 44 | 42 | 37 |
| 3 | 82 | 72 | 65 | 59 | 75 | 67 | 61 | 55 | 58 | 53 | 48 | 49 | 45 | 42 | 40 | 38 | 36 | 32 |
| 4 | 75 | 64 | 56 | 50 | 69 | 59 | 52 | 47 | 51 | 46 | 41 | 43 | 39 | 36 | 36 | 33 | 31 | 27 |
| 5 | 69 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 46 | 40 | 36 | 39 | 35 | 31 | 33 | 29 | 27 | 23 |
| 6 | 63 | 51 | 43 | 37 | 58 | 48 | 40 | 35 | 41 | 35 | 31 | 35 | 31 | 27 | 30 | 26 | 23 | 21 |
| 7 | 58 | 46 | 38 | 32 | 54 | 43 | 36 | 31 | 37 | 32 | 27 | 32 | 27 | 24 | 27 | 24 | 21 | 18 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 25 | 21 | 25 | 21 | 19 | 16 |
| 9 | 51 | 38 | 31 | 26 | 47 | 36 | 29 | 24 | 31 | 26 | 22 | 27 | 22 | 19 | 23 | 19 | 17 | 15 |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 23 | 20 | 25 | 21 | 17 | 21 | 18 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5022 | 5022 | 5022 |
| 5° | 5046 | 4976 | 5010 |
| 10° | 5012 | 4933 | 4964 |
| 15° | 4953 | 4878 | 4886 |
| 20° | 4885 | 4798 | 4802 |
| 25° | 4793 | 4703 | 4694 |
| 30° | 4692 | 4598 | 4561 |
| 35° | 4586 | 4486 | 4428 |
| 40° | 4477 | 4363 | 4295 |
| 45° | 4354 | 4250 | 4147 |
| 50° | 4232 | 4113 | 3997 |
| 55° | 4074 | 3969 | 3847 |
| 60° | 3914 | 3800 | 3679 |
| 65° | 3769 | 3617 | 3505 |
| 70° | 3559 | 3408 | 3257 |
| 75° | 3256 | 3136 | 3003 |
| 80° | 2938 | 2814 | 2783 |
| 85° | 2569 | 2482 | 2384 |



TEST NUMBER: P331872-935

CATALOG NUMBER: S123DIP-S340D365U935-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 1.9 |
| 10°-20° | 124.1 | 5.4 |
| 20°-30° | 183.3 | 8.0 |
| 30°-40° | 214.1 | 9.4 |
| 40°-50° | 215.3 | 9.4 |
| 50°-60° | 189.1 | 8.3 |
| 60°-70° | 140.9 | 6.2 |
| 70°-80° | 80.3 | 3.5 |
| 80°-90° | 24.2 | 1.1 |
| 90°-100° | 25.2 | 1.1 |
| 100°-110° | 75.5 | 3.3 |
| 110°-120° | 128.5 | 5.6 |
| 120°-130° | 169.0 | 7.4 |
| 130°-140° | 189.9 | 8.3 |
| 140°-150° | 186.7 | 8.2 |
| 150°-160° | 157.2 | 6.9 |
| 160°-170° | 104.6 | 4.6 |
| 170°-180° | 36.6 | 1.6 |
| 0°-30° | 351.4 | 15.4 |
| 0°-40° | 565.5 | 24.7 |
| 0°-60° | 969.9 | 42.4 |
| 0°-90° | 1215.2 | 53.1 |
| 90°-120° | 229.2 | 10.0 |
| 90°-150° | 774.8 | 33.9 |
| 90°-180° | 1073.0 | 46.9 |
| 0°-180° | 2288.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 467 | 467 | 467 | 467 | 467 | |
| 5° | 467 | 465 | 460 | 464 | 464 | 44 |
| 15° | 444 | 443 | 438 | 441 | 438 | 125 |
| 25° | 404 | 401 | 396 | 396 | 395 | 186 |
| 35° | 349 | 346 | 341 | 339 | 337 | 218 |
| 45° | 286 | 284 | 279 | 275 | 272 | 221 |
| 55° | 217 | 216 | 212 | 207 | 205 | 194 |
| 65° | 148 | 146 | 142 | 139 | 138 | 146 |
| 75° | 78 | 77 | 75 | 73 | 72 | 84 |
| 85° | 21 | 20 | 20 | 19 | 19 | 23 |
| 90° | 0 | 3 | 7 | 8 | 9 | 2 |
| 95° | 18 | 20 | 23 | 24 | 24 | 20 |
| 105° | 68 | 69 | 72 | 72 | 72 | 73 |
| 115° | 129 | 130 | 130 | 130 | 130 | 128 |
| 125° | 189 | 190 | 190 | 188 | 187 | 169 |
| 135° | 246 | 247 | 247 | 246 | 245 | 189 |
| 145° | 298 | 298 | 299 | 299 | 298 | 186 |
| 155° | 341 | 341 | 341 | 342 | 340 | 157 |
| 165° | 372 | 371 | 371 | 372 | 370 | 105 |
| 175° | 386 | 385 | 385 | 387 | 385 | 37 |
| 180° | 387 | 387 | 387 | 387 | 387 | |



TEST NUMBER: P331872-935

CATALOG NUMBER: S123DIP-S340D365U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 |
| 2.5° | 468.2 | 467.9 | 467.6 | 467.4 | 467.0 | 466.5 | 465.7 | 464.9 | 464.2 | 463.4 | 464.1 |
| 5° | 467.0 | 466.5 | 466.1 | 465.6 | 465.2 | 464.5 | 463.5 | 462.5 | 461.5 | 460.5 | 461.4 |
| 7.5° | 462.4 | 461.9 | 461.5 | 461.1 | 460.6 | 459.9 | 458.9 | 457.9 | 456.8 | 455.8 | 456.6 |
| 10° | 458.6 | 458.1 | 457.6 | 457.2 | 456.8 | 456.0 | 454.8 | 453.7 | 452.5 | 451.3 | 452.1 |
| 12.5° | 453.4 | 453.1 | 452.6 | 452.3 | 451.9 | 451.2 | 450.1 | 449.0 | 447.9 | 446.9 | 447.5 |
| 15° | 444.5 | 444.2 | 443.8 | 443.4 | 443.1 | 442.3 | 441.2 | 440.0 | 438.9 | 437.7 | 438.4 |
| 17.5° | 434.1 | 433.7 | 433.3 | 432.7 | 432.3 | 431.5 | 430.3 | 429.2 | 428.0 | 426.9 | 427.3 |
| 20° | 426.5 | 425.9 | 425.4 | 424.8 | 424.3 | 423.4 | 422.3 | 421.1 | 420.0 | 418.9 | 419.2 |
| 22.5° | 417.8 | 417.2 | 416.7 | 416.2 | 415.7 | 414.8 | 413.6 | 412.5 | 411.3 | 410.2 | 410.4 |
| 25° | 403.6 | 403.0 | 402.5 | 402.0 | 401.5 | 400.6 | 399.4 | 398.3 | 397.1 | 396.0 | 396.1 |
| 27.5° | 388.4 | 387.9 | 387.4 | 386.8 | 386.3 | 385.5 | 384.3 | 383.0 | 381.8 | 380.5 | 380.6 |
| 30° | 377.5 | 377.0 | 376.6 | 376.2 | 375.7 | 374.9 | 373.7 | 372.4 | 371.2 | 369.9 | 369.9 |
| 32.5° | 366.6 | 366.0 | 365.4 | 364.8 | 364.3 | 363.4 | 362.5 | 361.5 | 360.6 | 359.6 | 359.1 |
| 35° | 349.0 | 348.5 | 347.9 | 347.4 | 346.9 | 346.0 | 344.9 | 343.7 | 342.6 | 341.4 | 340.9 |
| 37.5° | 331.1 | 330.4 | 329.7 | 329.0 | 328.4 | 327.4 | 326.2 | 325.0 | 323.9 | 322.7 | 322.1 |
| 40° | 318.6 | 318.0 | 317.5 | 316.9 | 316.4 | 315.5 | 314.3 | 313.0 | 311.8 | 310.5 | 309.8 |
| 42.5° | 306.0 | 305.4 | 304.8 | 304.2 | 303.6 | 302.6 | 301.4 | 300.1 | 298.9 | 297.6 | 297.0 |
| 45° | 286.0 | 285.7 | 285.3 | 285.0 | 284.6 | 283.9 | 282.7 | 281.5 | 280.3 | 279.2 | 278.2 |
| 47.5° | 266.2 | 265.7 | 265.2 | 264.7 | 264.2 | 263.4 | 262.3 | 261.1 | 260.1 | 259.0 | 258.0 |
| 50° | 252.7 | 252.3 | 251.8 | 251.4 | 251.0 | 250.1 | 249.0 | 247.9 | 246.7 | 245.6 | 244.5 |
| 52.5° | 238.6 | 238.3 | 238.0 | 237.7 | 237.4 | 236.6 | 235.4 | 234.2 | 233.0 | 231.7 | 230.9 |
| 55° | 217.1 | 217.0 | 216.9 | 216.8 | 216.7 | 216.0 | 214.9 | 213.7 | 212.6 | 211.5 | 210.4 |
| 57.5° | 196.5 | 196.2 | 195.9 | 195.6 | 195.3 | 194.7 | 193.7 | 192.8 | 191.9 | 191.0 | 190.1 |
| 60° | 181.8 | 181.7 | 181.6 | 181.5 | 181.4 | 180.8 | 179.7 | 178.7 | 177.6 | 176.5 | 175.7 |
| 62.5° | 168.6 | 168.3 | 168.2 | 167.9 | 167.6 | 167.0 | 165.9 | 164.9 | 163.8 | 162.7 | 162.0 |
| 65° | 148.0 | 147.6 | 147.1 | 146.7 | 146.3 | 145.6 | 144.7 | 143.8 | 142.9 | 142.0 | 141.3 |
| 67.5° | 126.3 | 125.9 | 125.5 | 125.1 | 124.8 | 124.2 | 123.6 | 122.9 | 122.2 | 121.5 | 120.9 |
| 70° | 113.1 | 112.6 | 112.1 | 111.5 | 111.0 | 110.5 | 109.9 | 109.3 | 108.8 | 108.3 | 107.7 |
| 72.5° | 99.4 | 98.9 | 98.6 | 98.2 | 97.7 | 97.3 | 96.7 | 96.1 | 95.5 | 94.9 | 94.3 |
| 75° | 78.3 | 77.8 | 77.5 | 77.1 | 76.8 | 76.5 | 76.2 | 75.9 | 75.7 | 75.4 | 75.0 |
| 77.5° | 59.5 | 59.3 | 59.2 | 59.0 | 58.7 | 58.5 | 58.2 | 57.9 | 57.5 | 57.2 | 56.9 |
| 80° | 47.4 | 47.1 | 46.8 | 46.6 | 46.2 | 46.1 | 45.9 | 45.7 | 45.5 | 45.4 | 45.2 |
| 82.5° | 35.5 | 35.4 | 35.4 | 35.3 | 35.2 | 35.2 | 35.1 | 35.1 | 35.1 | 35.0 | 34.9 |
| 85° | 20.8 | 20.7 | 20.5 | 20.3 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 19.9 |
| 87.5° | 8.4 | 8.4 | 8.3 | 8.2 | 8.1 | 8.1 | 8.2 | 8.4 | 8.4 | 8.5 | 8.5 |
| 90° | 0.3 | 0.9 | 1.6 | 2.3 | 3.0 | 3.8 | 4.6 | 5.5 | 6.5 | 7.3 | 7.6 |
| 92.5° | 7.4 | 7.8 | 8.3 | 8.8 | 9.2 | 9.6 | 10.2 | 10.7 | 11.2 | 11.7 | 11.9 |
| 95° | 18.0 | 18.4 | 18.9 | 19.4 | 19.8 | 20.3 | 20.9 | 21.4 | 22.0 | 22.6 | 22.8 |
| 97.5° | 31.9 | 32.2 | 32.6 | 33.0 | 33.3 | 33.7 | 34.1 | 34.4 | 34.9 | 35.2 | 35.6 |
| 100° | 41.4 | 41.8 | 42.2 | 42.6 | 43.0 | 43.4 | 43.7 | 44.1 | 44.4 | 44.7 | 44.9 |
| 102.5° | 52.3 | 52.6 | 52.8 | 53.0 | 53.3 | 53.6 | 54.1 | 54.6 | 55.0 | 55.4 | 55.6 |
| 105° | 68.4 | 68.6 | 68.7 | 68.9 | 69.0 | 69.4 | 70.0 | 70.6 | 71.2 | 71.8 | 71.8 |
| 107.5° | 87.2 | 87.3 | 87.4 | 87.5 | 87.6 | 87.6 | 87.9 | 88.2 | 88.4 | 88.7 | 88.9 |
| 110° | 98.9 | 99.0 | 99.2 | 99.3 | 99.4 | 99.5 | 99.7 | 99.9 | 100.0 | 100.1 | 100.4 |



TEST NUMBER: P331872-935

CATALOG NUMBER: S123DIP-S340D365U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 111.1 | 111.2 | 111.2 | 111.3 | 111.4 | 111.4 | 111.5 | 111.5 | 111.5 | 111.6 | 111.8 |
| 115° | 129.3 | 129.5 | 129.8 | 129.9 | 130.1 | 130.2 | 130.0 | 129.9 | 129.8 | 129.6 | 129.7 |
| 117.5° | 147.7 | 147.8 | 148.0 | 148.1 | 148.3 | 148.2 | 148.0 | 147.8 | 147.7 | 147.5 | 147.5 |
| 120° | 159.1 | 159.5 | 160.0 | 160.3 | 160.7 | 160.7 | 160.5 | 160.1 | 159.8 | 159.5 | 159.4 |
| 122.5° | 171.1 | 171.3 | 171.7 | 171.9 | 172.3 | 172.3 | 172.1 | 171.9 | 171.8 | 171.6 | 171.4 |
| 125° | 189.2 | 189.4 | 189.7 | 189.9 | 190.1 | 190.1 | 189.9 | 189.9 | 189.7 | 189.6 | 189.2 |
| 127.5° | 206.0 | 206.5 | 206.9 | 207.3 | 207.8 | 207.9 | 207.8 | 207.6 | 207.5 | 207.3 | 207.0 |
| 130° | 217.2 | 217.7 | 218.3 | 218.9 | 219.4 | 219.6 | 219.4 | 219.2 | 219.0 | 218.8 | 218.5 |
| 132.5° | 228.4 | 229.0 | 229.5 | 230.1 | 230.6 | 230.8 | 230.7 | 230.5 | 230.3 | 230.2 | 229.9 |
| 135° | 245.6 | 246.0 | 246.3 | 246.8 | 247.2 | 247.4 | 247.3 | 247.2 | 247.1 | 247.1 | 246.8 |
| 137.5° | 261.4 | 261.7 | 262.0 | 262.3 | 262.7 | 262.9 | 263.1 | 263.3 | 263.5 | 263.6 | 263.4 |
| 140° | 272.3 | 272.7 | 273.0 | 273.4 | 273.7 | 273.9 | 274.0 | 274.0 | 274.1 | 274.1 | 274.1 |
| 142.5° | 282.3 | 282.7 | 283.0 | 283.4 | 283.6 | 283.9 | 284.0 | 284.1 | 284.2 | 284.4 | 284.3 |
| 145° | 297.9 | 298.0 | 298.2 | 298.3 | 298.4 | 298.6 | 298.8 | 299.0 | 299.2 | 299.4 | 299.4 |
| 147.5° | 311.5 | 311.8 | 312.0 | 312.3 | 312.5 | 312.7 | 312.9 | 313.1 | 313.2 | 313.5 | 313.5 |
| 150° | 321.0 | 321.2 | 321.2 | 321.4 | 321.6 | 321.7 | 321.8 | 321.9 | 322.1 | 322.2 | 322.2 |
| 152.5° | 328.8 | 329.0 | 329.2 | 329.3 | 329.6 | 329.7 | 329.8 | 329.8 | 329.9 | 330.0 | 330.1 |
| 155° | 341.1 | 341.1 | 341.1 | 341.1 | 341.1 | 341.1 | 341.2 | 341.2 | 341.3 | 341.4 | 341.6 |
| 157.5° | 351.5 | 351.5 | 351.4 | 351.3 | 351.2 | 351.2 | 351.3 | 351.3 | 351.4 | 351.5 | 351.7 |
| 160° | 358.1 | 358.0 | 357.8 | 357.7 | 357.6 | 357.5 | 357.5 | 357.5 | 357.5 | 357.5 | 357.8 |
| 162.5° | 363.9 | 363.8 | 363.6 | 363.4 | 363.2 | 363.2 | 363.2 | 363.3 | 363.3 | 363.3 | 363.7 |
| 165° | 371.5 | 371.3 | 371.1 | 370.9 | 370.7 | 370.6 | 370.6 | 370.6 | 370.6 | 370.6 | 371.0 |
| 167.5° | 377.5 | 377.3 | 377.0 | 376.7 | 376.4 | 376.3 | 376.4 | 376.4 | 376.5 | 376.6 | 376.9 |
| 170° | 380.9 | 380.6 | 380.4 | 380.1 | 379.9 | 379.7 | 379.7 | 379.7 | 379.7 | 379.7 | 380.2 |
| 172.5° | 383.7 | 383.3 | 383.1 | 382.8 | 382.5 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.8 |
| 175° | 386.4 | 386.2 | 385.9 | 385.6 | 385.4 | 385.2 | 385.2 | 385.2 | 385.2 | 385.2 | 385.6 |
| 177.5° | 387.5 | 387.4 | 387.1 | 386.9 | 386.7 | 386.6 | 386.6 | 386.6 | 386.6 | 386.6 | 386.9 |
| 180° | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 |



TEST NUMBER: P331872-935

CATALOG NUMBER: S123DIP-S340D365U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 |
| 2.5° | 464.8 | 465.5 | 466.2 | 466.6 | 466.5 | 466.4 | 466.3 | 466.2 |
| 5° | 462.4 | 463.2 | 464.2 | 464.5 | 464.3 | 464.2 | 463.9 | 463.7 |
| 7.5° | 457.4 | 458.2 | 459.0 | 459.3 | 459.3 | 459.2 | 459.1 | 458.9 |
| 10° | 453.0 | 453.7 | 454.5 | 454.9 | 454.7 | 454.5 | 454.3 | 454.2 |
| 12.5° | 448.0 | 448.6 | 449.2 | 449.4 | 449.4 | 449.2 | 449.1 | 449.0 |
| 15° | 439.1 | 439.8 | 440.6 | 440.7 | 440.1 | 439.5 | 439.0 | 438.5 |
| 17.5° | 427.8 | 428.3 | 428.9 | 429.0 | 428.8 | 428.6 | 428.4 | 428.3 |
| 20° | 419.6 | 419.9 | 420.3 | 420.3 | 420.0 | 419.7 | 419.5 | 419.2 |
| 22.5° | 410.7 | 411.0 | 411.3 | 411.3 | 411.0 | 410.6 | 410.3 | 409.9 |
| 25° | 396.1 | 396.2 | 396.3 | 396.2 | 396.0 | 395.7 | 395.5 | 395.2 |
| 27.5° | 380.6 | 380.7 | 380.7 | 380.6 | 380.3 | 380.0 | 379.6 | 379.3 |
| 30° | 369.9 | 369.9 | 369.9 | 369.5 | 368.9 | 368.3 | 367.7 | 367.0 |
| 32.5° | 358.6 | 358.1 | 357.7 | 357.2 | 356.9 | 356.5 | 356.2 | 355.9 |
| 35° | 340.4 | 339.8 | 339.2 | 338.8 | 338.4 | 337.9 | 337.4 | 337.0 |
| 37.5° | 321.4 | 320.8 | 320.1 | 319.7 | 319.4 | 319.1 | 318.8 | 318.6 |
| 40° | 309.1 | 308.4 | 307.6 | 307.1 | 306.8 | 306.4 | 306.1 | 305.7 |
| 42.5° | 296.3 | 295.5 | 294.8 | 294.3 | 293.9 | 293.6 | 293.3 | 292.8 |
| 45° | 277.1 | 276.0 | 274.9 | 274.2 | 273.7 | 273.3 | 272.9 | 272.4 |
| 47.5° | 256.9 | 255.9 | 254.8 | 254.1 | 253.7 | 253.3 | 252.9 | 252.5 |
| 50° | 243.6 | 242.5 | 241.6 | 240.8 | 240.3 | 239.8 | 239.3 | 238.7 |
| 52.5° | 230.1 | 229.2 | 228.3 | 227.6 | 227.1 | 226.6 | 226.1 | 225.6 |
| 55° | 209.5 | 208.4 | 207.5 | 206.8 | 206.4 | 205.9 | 205.4 | 205.0 |
| 57.5° | 189.2 | 188.3 | 187.4 | 186.8 | 186.2 | 185.7 | 185.2 | 184.7 |
| 60° | 175.0 | 174.1 | 173.3 | 172.7 | 172.2 | 171.8 | 171.3 | 170.9 |
| 62.5° | 161.1 | 160.3 | 159.5 | 158.9 | 158.7 | 158.3 | 158.1 | 157.7 |
| 65° | 140.6 | 139.9 | 139.1 | 138.7 | 138.4 | 138.1 | 137.8 | 137.6 |
| 67.5° | 120.2 | 119.6 | 119.0 | 118.5 | 118.1 | 117.7 | 117.4 | 117.0 |
| 70° | 107.1 | 106.4 | 105.8 | 105.3 | 104.9 | 104.4 | 103.9 | 103.5 |
| 72.5° | 93.8 | 93.2 | 92.6 | 92.2 | 92.0 | 91.8 | 91.5 | 91.3 |
| 75° | 74.6 | 74.0 | 73.6 | 73.3 | 73.0 | 72.8 | 72.5 | 72.2 |
| 77.5° | 56.6 | 56.3 | 56.0 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 |
| 80° | 45.1 | 45.0 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 82.5° | 34.8 | 34.6 | 34.4 | 34.3 | 34.3 | 34.2 | 34.1 | 34.0 |
| 85° | 19.7 | 19.5 | 19.4 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 |
| 87.5° | 8.5 | 8.4 | 8.4 | 8.4 | 8.5 | 8.5 | 8.5 | 8.5 |
| 90° | 7.8 | 8.1 | 8.4 | 8.6 | 8.7 | 8.9 | 9.0 | 9.1 |
| 92.5° | 12.1 | 12.3 | 12.6 | 12.7 | 12.6 | 12.5 | 12.4 | 12.3 |
| 95° | 23.1 | 23.3 | 23.6 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| 97.5° | 35.8 | 36.2 | 36.5 | 36.6 | 36.6 | 36.6 | 36.5 | 36.5 |
| 100° | 45.1 | 45.4 | 45.5 | 45.7 | 45.8 | 46.0 | 46.1 | 46.2 |
| 102.5° | 55.9 | 56.1 | 56.2 | 56.3 | 56.3 | 56.3 | 56.2 | 56.2 |
| 105° | 71.8 | 71.8 | 71.8 | 71.9 | 72.0 | 72.2 | 72.3 | 72.4 |
| 107.5° | 89.1 | 89.3 | 89.5 | 89.6 | 89.5 | 89.5 | 89.4 | 89.3 |
| 110° | 100.7 | 100.9 | 101.2 | 101.3 | 101.1 | 101.0 | 100.8 | 100.7 |



TEST NUMBER: P331872-935

CATALOG NUMBER: S123DIP-S340D365U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 112.2 | 112.5 | 112.9 | 113.0 | 113.0 | 113.0 | 112.9 | 112.9 |
| 115° | 129.8 | 129.8 | 129.9 | 129.9 | 129.8 | 129.8 | 129.7 | 129.6 |
| 117.5° | 147.5 | 147.5 | 147.5 | 147.3 | 147.1 | 147.0 | 146.8 | 146.6 |
| 120° | 159.3 | 159.2 | 159.2 | 159.0 | 158.9 | 158.8 | 158.7 | 158.5 |
| 122.5° | 171.3 | 171.1 | 170.9 | 170.7 | 170.6 | 170.3 | 170.1 | 170.0 |
| 125° | 189.0 | 188.7 | 188.5 | 188.2 | 188.0 | 187.7 | 187.4 | 187.1 |
| 127.5° | 206.6 | 206.2 | 205.8 | 205.4 | 205.2 | 204.8 | 204.6 | 204.2 |
| 130° | 218.3 | 217.9 | 217.7 | 217.3 | 216.9 | 216.4 | 215.9 | 215.4 |
| 132.5° | 229.5 | 229.2 | 228.9 | 228.6 | 228.2 | 227.8 | 227.5 | 227.1 |
| 135° | 246.5 | 246.2 | 246.0 | 245.8 | 245.6 | 245.5 | 245.4 | 245.2 |
| 137.5° | 263.1 | 262.9 | 262.5 | 262.3 | 262.0 | 261.7 | 261.5 | 261.2 |
| 140° | 274.0 | 274.0 | 273.9 | 273.6 | 273.1 | 272.7 | 272.2 | 271.7 |
| 142.5° | 284.2 | 284.1 | 284.1 | 283.9 | 283.5 | 283.2 | 282.8 | 282.4 |
| 145° | 299.3 | 299.2 | 299.1 | 298.9 | 298.7 | 298.4 | 298.2 | 297.9 |
| 147.5° | 313.5 | 313.5 | 313.5 | 313.2 | 312.9 | 312.5 | 312.0 | 311.6 |
| 150° | 322.2 | 322.2 | 322.2 | 322.0 | 321.6 | 321.2 | 320.8 | 320.4 |
| 152.5° | 330.2 | 330.4 | 330.5 | 330.3 | 329.9 | 329.6 | 329.2 | 328.9 |
| 155° | 341.9 | 342.2 | 342.5 | 342.3 | 341.9 | 341.4 | 341.0 | 340.4 |
| 157.5° | 352.0 | 352.3 | 352.6 | 352.5 | 352.1 | 351.8 | 351.4 | 351.0 |
| 160° | 358.2 | 358.5 | 358.9 | 358.9 | 358.6 | 358.3 | 358.1 | 357.8 |
| 162.5° | 364.0 | 364.4 | 364.7 | 364.6 | 364.2 | 363.8 | 363.3 | 362.9 |
| 165° | 371.4 | 371.8 | 372.2 | 372.2 | 371.7 | 371.3 | 370.7 | 370.3 |
| 167.5° | 377.4 | 377.8 | 378.2 | 378.2 | 377.8 | 377.4 | 376.9 | 376.6 |
| 170° | 380.6 | 381.2 | 381.6 | 381.6 | 381.2 | 380.6 | 380.2 | 379.7 |
| 172.5° | 383.2 | 383.7 | 384.1 | 384.1 | 383.6 | 383.1 | 382.6 | 382.2 |
| 175° | 386.0 | 386.4 | 386.8 | 386.8 | 386.3 | 385.8 | 385.4 | 384.9 |
| 177.5° | 387.3 | 387.5 | 387.9 | 387.9 | 387.5 | 387.1 | 386.8 | 386.3 |
| 180° | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 |

(END OF REPORT)