

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: P331263-830

Luminaire Tested: **S122DIP-S290D725U830-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331263-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S290D725U830-4F0-1E-UDD-D4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3796.7 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

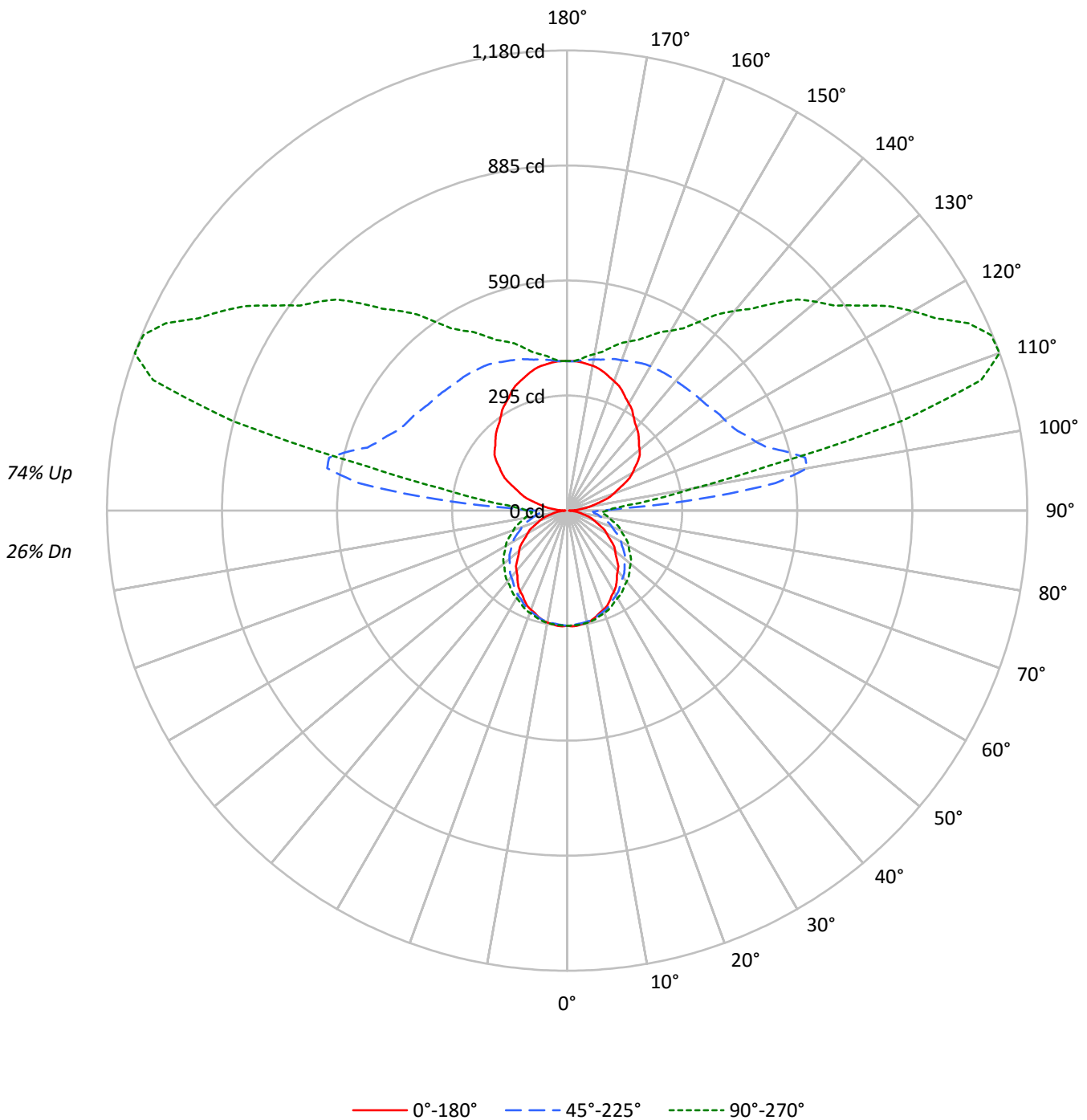
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331263-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331263-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 | 26 | | | | |
| 1 | 92 | 87 | 83 | 79 | 82 | 78 | 74 | 71 | 60 | 58 | 56 | 44 | 43 | 41 | 29 | 28 | 27 | 21 | | | | |
| 2 | 83 | 76 | 69 | 64 | 74 | 67 | 62 | 58 | 52 | 49 | 45 | 38 | 36 | 34 | 25 | 24 | 22 | 17 | | | | |
| 3 | 76 | 66 | 59 | 53 | 67 | 59 | 53 | 48 | 46 | 41 | 38 | 33 | 31 | 28 | 22 | 20 | 19 | 14 | | | | |
| 4 | 69 | 58 | 50 | 44 | 61 | 52 | 45 | 40 | 40 | 36 | 32 | 30 | 26 | 24 | 20 | 18 | 16 | 12 | | | | |
| 5 | 63 | 52 | 44 | 38 | 56 | 46 | 39 | 34 | 36 | 31 | 27 | 26 | 23 | 20 | 17 | 15 | 14 | 10 | | | | |
| 6 | 58 | 46 | 38 | 32 | 51 | 41 | 34 | 29 | 32 | 27 | 23 | 24 | 20 | 18 | 16 | 14 | 12 | 9 | | | | |
| 7 | 53 | 41 | 34 | 28 | 47 | 37 | 30 | 26 | 29 | 24 | 20 | 21 | 18 | 15 | 14 | 12 | 10 | 8 | | | | |
| 8 | 49 | 37 | 30 | 25 | 44 | 34 | 27 | 22 | 26 | 21 | 18 | 19 | 16 | 14 | 13 | 11 | 9 | 7 | | | | |
| 9 | 46 | 34 | 27 | 22 | 41 | 30 | 24 | 20 | 24 | 19 | 16 | 18 | 14 | 12 | 12 | 10 | 8 | 6 | | | | |
| 10 | 43 | 31 | 24 | 19 | 38 | 28 | 22 | 18 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9 | 8 | 5 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4771 | 4771 | 4771 |
| 5° | 4794 | 4593 | 4573 |
| 10° | 4763 | 4457 | 4407 |
| 15° | 4698 | 4312 | 4229 |
| 20° | 4614 | 4159 | 4059 |
| 25° | 4533 | 4009 | 3902 |
| 30° | 4418 | 3857 | 3747 |
| 35° | 4301 | 3711 | 3638 |
| 40° | 4178 | 3584 | 3528 |
| 45° | 4060 | 3473 | 3434 |
| 50° | 3936 | 3371 | 3343 |
| 55° | 3802 | 3261 | 3248 |
| 60° | 3643 | 3149 | 3150 |
| 65° | 3474 | 3016 | 3031 |
| 70° | 3286 | 2872 | 2904 |
| 75° | 3050 | 2735 | 2786 |
| 80° | 2669 | 2592 | 2667 |
| 85° | 2319 | 2468 | 2574 |



TEST NUMBER: P331263-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.0 | 0.7 |
| 10°-20° | 80.3 | 2.1 |
| 20°-30° | 121.6 | 3.2 |
| 30°-40° | 148.2 | 3.9 |
| 40°-50° | 159.4 | 4.2 |
| 50°-60° | 154.8 | 4.1 |
| 60°-70° | 135.2 | 3.6 |
| 70°-80° | 104.1 | 2.7 |
| 80°-90° | 73.3 | 1.9 |
| 90°-100° | 201.3 | 5.3 |
| 100°-110° | 555.0 | 14.6 |
| 110°-120° | 575.5 | 15.2 |
| 120°-130° | 467.6 | 12.3 |
| 130°-140° | 370.5 | 9.8 |
| 140°-150° | 276.8 | 7.3 |
| 150°-160° | 193.9 | 5.1 |
| 160°-170° | 114.1 | 3.0 |
| 170°-180° | 37.1 | 1.0 |
| 0°-30° | 229.9 | 6.1 |
| 0°-40° | 378.1 | 10.0 |
| 0°-60° | 692.3 | 18.2 |
| 0°-90° | 1004.8 | 26.5 |
| 90°-120° | 1331.8 | 35.1 |
| 90°-150° | 2446.7 | 64.4 |
| 90°-180° | 2792.0 | 73.5 |
| 0°-180° | 3796.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 296 | 296 | 296 | 296 | 296 | |
| 5° | 296 | 295 | 292 | 295 | 294 | 28 |
| 15° | 283 | 283 | 283 | 287 | 287 | 80 |
| 25° | 257 | 260 | 264 | 269 | 270 | 118 |
| 35° | 221 | 229 | 237 | 246 | 249 | 138 |
| 45° | 182 | 193 | 208 | 221 | 226 | 140 |
| 55° | 139 | 155 | 177 | 192 | 198 | 124 |
| 65° | 95 | 116 | 141 | 158 | 164 | 94 |
| 75° | 53 | 77 | 104 | 122 | 128 | 56 |
| 85° | 16 | 42 | 69 | 87 | 93 | 17 |
| 90° | 5 | 39 | 82 | 97 | 103 | 4 |
| 95° | 29 | 87 | 338 | 174 | 155 | 30 |
| 105° | 92 | 151 | 583 | 1027 | 887 | 98 |
| 115° | 160 | 207 | 482 | 981 | 1136 | 159 |
| 125° | 222 | 263 | 454 | 789 | 916 | 197 |
| 135° | 260 | 310 | 439 | 655 | 752 | 201 |
| 145° | 296 | 340 | 432 | 539 | 591 | 186 |
| 155° | 337 | 364 | 419 | 474 | 493 | 155 |
| 165° | 367 | 378 | 402 | 426 | 432 | 103 |
| 175° | 382 | 383 | 386 | 391 | 390 | 36 |
| 180° | 383 | 383 | 383 | 383 | 383 | |



TEST NUMBER: P331263-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 |
| 2.5° | 297.2 | 296.9 | 296.7 | 296.4 | 296.2 | 295.9 | 295.3 | 294.8 | 294.3 | 293.7 | 294.1 |
| 5° | 296.3 | 296.1 | 295.8 | 295.5 | 295.1 | 294.7 | 294.2 | 293.6 | 293.0 | 292.5 | 293.0 |
| 7.5° | 293.6 | 293.4 | 293.2 | 293.0 | 292.8 | 292.6 | 292.1 | 291.7 | 291.2 | 290.8 | 291.5 |
| 10° | 291.6 | 291.4 | 291.2 | 291.1 | 290.9 | 290.6 | 290.3 | 290.0 | 289.7 | 289.5 | 290.2 |
| 12.5° | 288.1 | 288.2 | 288.2 | 288.3 | 288.3 | 288.2 | 288.0 | 287.9 | 287.6 | 287.4 | 288.1 |
| 15° | 282.6 | 282.8 | 283.0 | 283.1 | 283.3 | 283.4 | 283.4 | 283.4 | 283.4 | 283.4 | 284.3 |
| 17.5° | 275.4 | 275.8 | 276.2 | 276.6 | 277.0 | 277.4 | 277.7 | 278.0 | 278.2 | 278.6 | 279.5 |
| 20° | 270.6 | 271.1 | 271.5 | 272.0 | 272.5 | 273.0 | 273.3 | 273.7 | 274.1 | 274.5 | 275.5 |
| 22.5° | 265.5 | 266.0 | 266.6 | 267.1 | 267.7 | 268.2 | 268.7 | 269.3 | 269.8 | 270.3 | 271.4 |
| 25° | 256.9 | 257.6 | 258.3 | 258.9 | 259.6 | 260.3 | 261.2 | 262.0 | 262.9 | 263.7 | 264.9 |
| 27.5° | 246.7 | 247.7 | 248.8 | 249.9 | 251.0 | 252.0 | 253.0 | 254.0 | 255.1 | 256.1 | 257.5 |
| 30° | 239.8 | 241.0 | 242.2 | 243.5 | 244.7 | 246.0 | 247.2 | 248.5 | 249.7 | 250.9 | 252.4 |
| 32.5° | 232.2 | 233.7 | 235.0 | 236.4 | 237.8 | 239.2 | 240.7 | 242.1 | 243.6 | 245.1 | 246.9 |
| 35° | 221.4 | 223.0 | 224.6 | 226.2 | 227.8 | 229.5 | 231.4 | 233.2 | 235.0 | 236.8 | 238.8 |
| 37.5° | 209.5 | 211.4 | 213.3 | 215.2 | 217.0 | 219.1 | 221.5 | 223.8 | 226.1 | 228.5 | 230.8 |
| 40° | 201.7 | 203.8 | 205.9 | 207.9 | 210.0 | 212.4 | 214.9 | 217.5 | 220.1 | 222.6 | 225.1 |
| 42.5° | 194.2 | 196.2 | 198.3 | 200.4 | 202.6 | 205.0 | 208.0 | 210.9 | 213.9 | 216.8 | 219.5 |
| 45° | 181.5 | 184.1 | 186.7 | 189.3 | 191.8 | 194.7 | 198.1 | 201.4 | 204.7 | 208.1 | 211.0 |
| 47.5° | 169.1 | 171.9 | 174.7 | 177.5 | 180.3 | 183.7 | 187.6 | 191.4 | 195.4 | 199.3 | 202.4 |
| 50° | 160.6 | 163.5 | 166.5 | 169.4 | 172.4 | 176.0 | 180.3 | 184.5 | 188.8 | 193.1 | 196.3 |
| 52.5° | 152.3 | 155.4 | 158.5 | 161.6 | 164.8 | 168.5 | 173.1 | 177.6 | 182.1 | 186.6 | 189.9 |
| 55° | 139.1 | 142.6 | 146.0 | 149.4 | 152.9 | 157.0 | 162.0 | 166.9 | 171.9 | 176.8 | 180.3 |
| 57.5° | 126.1 | 130.0 | 133.8 | 137.7 | 141.6 | 146.0 | 151.1 | 156.1 | 161.2 | 166.3 | 169.9 |
| 60° | 116.9 | 121.0 | 125.1 | 129.1 | 133.3 | 138.0 | 143.5 | 148.8 | 154.3 | 159.7 | 163.3 |
| 62.5° | 108.7 | 112.9 | 117.2 | 121.4 | 125.6 | 130.4 | 135.9 | 141.3 | 146.8 | 152.2 | 156.0 |
| 65° | 95.0 | 99.7 | 104.3 | 109.1 | 113.7 | 118.9 | 124.4 | 130.1 | 135.7 | 141.3 | 145.2 |
| 67.5° | 82.6 | 87.5 | 92.3 | 97.2 | 102.1 | 107.4 | 113.1 | 118.9 | 124.6 | 130.4 | 134.3 |
| 70° | 73.6 | 78.6 | 83.5 | 88.5 | 93.4 | 98.9 | 104.7 | 110.7 | 116.6 | 122.4 | 126.6 |
| 72.5° | 65.4 | 70.5 | 75.6 | 80.7 | 85.9 | 91.3 | 97.4 | 103.3 | 109.3 | 115.3 | 119.3 |
| 75° | 52.7 | 58.0 | 63.3 | 68.6 | 74.0 | 79.6 | 85.8 | 91.9 | 97.9 | 104.1 | 108.1 |
| 77.5° | 40.3 | 45.9 | 51.5 | 57.0 | 62.7 | 68.5 | 74.7 | 80.9 | 87.1 | 93.2 | 97.4 |
| 80° | 32.1 | 37.9 | 43.7 | 49.5 | 55.3 | 61.4 | 67.5 | 73.7 | 79.8 | 86.1 | 90.0 |
| 82.5° | 25.3 | 31.0 | 36.8 | 42.4 | 48.2 | 54.2 | 60.4 | 66.7 | 73.0 | 79.2 | 83.2 |
| 85° | 15.5 | 21.3 | 27.2 | 33.1 | 39.0 | 45.0 | 51.1 | 57.2 | 63.2 | 69.4 | 73.3 |
| 87.5° | 8.6 | 14.6 | 20.9 | 26.9 | 32.8 | 39.2 | 46.0 | 53.2 | 60.1 | 66.4 | 70.0 |
| 90° | 5.0 | 12.7 | 21.2 | 28.2 | 35.2 | 43.2 | 53.0 | 64.2 | 74.7 | 81.5 | 84.6 |
| 92.5° | 12.9 | 22.1 | 32.5 | 40.9 | 51.0 | 63.4 | 86.0 | 115.3 | 142.0 | 149.2 | 138.1 |
| 95° | 29.2 | 36.7 | 48.4 | 59.6 | 75.9 | 98.6 | 138.2 | 208.0 | 299.2 | 338.1 | 305.6 |
| 97.5° | 45.0 | 53.0 | 64.8 | 78.7 | 96.2 | 121.0 | 169.1 | 263.9 | 411.4 | 538.6 | 566.3 |
| 100° | 59.8 | 65.5 | 75.6 | 91.0 | 109.1 | 134.2 | 178.6 | 273.8 | 438.3 | 624.9 | 734.5 |
| 102.5° | 73.0 | 77.8 | 87.7 | 102.6 | 121.2 | 146.0 | 187.3 | 272.3 | 424.9 | 625.5 | 795.7 |
| 105° | 92.0 | 97.7 | 105.7 | 119.4 | 138.5 | 162.9 | 202.5 | 273.1 | 399.5 | 582.8 | 782.1 |
| 107.5° | 113.2 | 117.7 | 125.0 | 137.3 | 155.6 | 179.8 | 218.2 | 280.1 | 385.3 | 537.4 | 713.8 |
| 110° | 127.0 | 131.9 | 138.2 | 149.6 | 167.0 | 191.6 | 228.8 | 286.4 | 381.0 | 515.3 | 670.9 |



TEST NUMBER: P331263-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 140.0 | 144.5 | 151.1 | 161.6 | 178.1 | 203.1 | 238.8 | 293.3 | 379.4 | 499.9 | 640.2 |
| 115° | 160.1 | 164.9 | 170.3 | 180.2 | 196.0 | 218.6 | 254.5 | 303.8 | 379.5 | 482.5 | 601.7 |
| 117.5° | 180.6 | 184.3 | 189.4 | 197.8 | 212.6 | 235.6 | 268.9 | 315.0 | 381.6 | 472.0 | 576.1 |
| 120° | 193.6 | 196.9 | 201.7 | 208.8 | 223.9 | 246.6 | 279.1 | 322.7 | 383.2 | 465.9 | 562.1 |
| 122.5° | 205.9 | 208.5 | 213.0 | 220.5 | 235.4 | 258.4 | 288.9 | 329.3 | 385.5 | 461.5 | 550.0 |
| 125° | 221.9 | 224.1 | 228.6 | 237.3 | 252.1 | 274.3 | 303.8 | 340.1 | 388.7 | 453.6 | 532.2 |
| 127.5° | 234.9 | 237.7 | 243.8 | 253.4 | 267.5 | 289.9 | 318.1 | 350.3 | 392.6 | 448.1 | 515.6 |
| 130° | 242.5 | 245.3 | 252.6 | 262.9 | 277.5 | 299.1 | 326.9 | 356.8 | 395.7 | 444.9 | 504.6 |
| 132.5° | 249.6 | 253.1 | 260.9 | 271.7 | 286.9 | 308.3 | 334.4 | 363.4 | 398.8 | 442.2 | 495.4 |
| 135° | 259.8 | 262.7 | 271.5 | 282.6 | 299.5 | 320.7 | 345.2 | 371.9 | 402.4 | 438.7 | 482.7 |
| 137.5° | 269.8 | 273.3 | 282.1 | 293.9 | 310.7 | 330.1 | 353.7 | 378.1 | 405.4 | 436.0 | 473.1 |
| 140° | 277.5 | 280.3 | 289.1 | 300.8 | 316.9 | 336.1 | 358.4 | 381.4 | 406.6 | 434.0 | 467.3 |
| 142.5° | 285.1 | 287.4 | 295.6 | 307.3 | 322.7 | 340.7 | 362.2 | 384.6 | 407.8 | 433.4 | 462.1 |
| 145° | 296.1 | 299.2 | 306.5 | 317.5 | 332.2 | 348.5 | 368.4 | 389.0 | 409.6 | 431.8 | 455.9 |
| 147.5° | 308.6 | 310.8 | 317.8 | 328.0 | 340.3 | 354.7 | 373.4 | 391.5 | 410.3 | 429.1 | 449.8 |
| 150° | 316.8 | 319.1 | 324.9 | 334.5 | 345.5 | 358.8 | 375.8 | 392.7 | 409.6 | 427.3 | 445.0 |
| 152.5° | 325.1 | 326.1 | 332.0 | 340.4 | 350.8 | 363.0 | 378.1 | 393.3 | 408.5 | 424.4 | 440.9 |
| 155° | 336.7 | 337.4 | 341.9 | 350.0 | 358.1 | 369.1 | 381.6 | 394.2 | 406.7 | 419.2 | 433.2 |
| 157.5° | 346.5 | 347.1 | 350.7 | 357.8 | 364.3 | 373.5 | 384.2 | 394.2 | 403.3 | 414.0 | 426.0 |
| 160° | 352.9 | 353.6 | 356.6 | 362.5 | 368.4 | 376.5 | 385.3 | 394.2 | 401.5 | 410.4 | 420.8 |
| 162.5° | 359.4 | 358.9 | 361.9 | 366.6 | 371.9 | 378.2 | 386.0 | 393.6 | 399.8 | 407.5 | 415.9 |
| 165° | 366.9 | 366.2 | 367.7 | 372.1 | 375.8 | 380.2 | 386.8 | 392.0 | 396.4 | 401.5 | 408.2 |
| 167.5° | 373.2 | 372.2 | 373.5 | 376.4 | 379.0 | 381.8 | 386.6 | 391.0 | 393.0 | 396.4 | 400.5 |
| 170° | 377.2 | 375.8 | 376.5 | 378.7 | 380.2 | 382.4 | 386.1 | 389.7 | 391.2 | 393.4 | 396.4 |
| 172.5° | 379.6 | 378.7 | 378.2 | 380.5 | 381.4 | 383.0 | 385.5 | 388.0 | 388.9 | 389.9 | 392.3 |
| 175° | 382.4 | 381.6 | 380.9 | 382.4 | 382.4 | 383.1 | 384.6 | 386.1 | 385.3 | 386.1 | 386.8 |
| 177.5° | 383.7 | 382.6 | 381.9 | 383.1 | 383.1 | 383.1 | 383.7 | 384.9 | 383.7 | 383.1 | 383.7 |
| 180° | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 |



TEST NUMBER: P331263-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 |
| 2.5° | 294.5 | 294.8 | 295.2 | 295.4 | 295.2 | 295.0 | 294.9 | 294.7 |
| 5° | 293.6 | 294.2 | 294.7 | 294.9 | 294.8 | 294.7 | 294.6 | 294.5 |
| 7.5° | 292.2 | 292.8 | 293.6 | 293.9 | 293.8 | 293.7 | 293.6 | 293.5 |
| 10° | 291.0 | 291.7 | 292.5 | 292.8 | 292.8 | 292.7 | 292.6 | 292.5 |
| 12.5° | 288.9 | 289.6 | 290.4 | 290.8 | 290.7 | 290.6 | 290.5 | 290.4 |
| 15° | 285.1 | 286.1 | 286.9 | 287.3 | 287.2 | 287.1 | 287.0 | 286.9 |
| 17.5° | 280.4 | 281.3 | 282.1 | 282.6 | 282.6 | 282.6 | 282.6 | 282.6 |
| 20° | 276.5 | 277.6 | 278.6 | 279.2 | 279.2 | 279.2 | 279.2 | 279.2 |
| 22.5° | 272.5 | 273.5 | 274.6 | 275.1 | 275.3 | 275.4 | 275.6 | 275.8 |
| 25° | 266.1 | 267.2 | 268.3 | 269.0 | 269.3 | 269.6 | 269.8 | 270.1 |
| 27.5° | 258.9 | 260.4 | 261.8 | 262.7 | 262.9 | 263.1 | 263.3 | 263.5 |
| 30° | 253.9 | 255.5 | 257.0 | 257.9 | 258.2 | 258.4 | 258.7 | 259.0 |
| 32.5° | 248.5 | 250.3 | 252.1 | 253.3 | 253.7 | 254.3 | 254.8 | 255.2 |
| 35° | 241.0 | 243.1 | 245.2 | 246.6 | 247.2 | 247.9 | 248.5 | 249.2 |
| 37.5° | 233.1 | 235.4 | 237.8 | 239.3 | 240.0 | 240.7 | 241.4 | 242.0 |
| 40° | 227.6 | 230.1 | 232.5 | 234.2 | 235.1 | 235.9 | 236.8 | 237.6 |
| 42.5° | 222.3 | 224.9 | 227.6 | 229.4 | 230.3 | 231.1 | 232.0 | 232.8 |
| 45° | 214.0 | 217.0 | 219.9 | 221.9 | 222.8 | 223.8 | 224.7 | 225.6 |
| 47.5° | 205.5 | 208.5 | 211.6 | 213.7 | 214.7 | 215.7 | 216.8 | 217.8 |
| 50° | 199.5 | 202.8 | 206.0 | 208.2 | 209.2 | 210.3 | 211.3 | 212.4 |
| 52.5° | 193.2 | 196.5 | 199.8 | 202.1 | 203.2 | 204.3 | 205.5 | 206.5 |
| 55° | 183.7 | 187.1 | 190.6 | 192.8 | 194.1 | 195.4 | 196.6 | 197.8 |
| 57.5° | 173.6 | 177.3 | 181.0 | 183.4 | 184.7 | 186.0 | 187.2 | 188.5 |
| 60° | 166.9 | 170.6 | 174.2 | 176.6 | 178.0 | 179.3 | 180.7 | 182.0 |
| 62.5° | 159.9 | 163.7 | 167.6 | 170.1 | 171.4 | 172.6 | 173.9 | 175.1 |
| 65° | 149.1 | 153.0 | 156.9 | 159.5 | 160.7 | 161.9 | 163.2 | 164.4 |
| 67.5° | 138.2 | 142.1 | 146.1 | 148.7 | 150.0 | 151.3 | 152.6 | 153.9 |
| 70° | 130.6 | 134.7 | 138.8 | 141.5 | 142.6 | 143.7 | 144.9 | 146.0 |
| 72.5° | 123.3 | 127.3 | 131.3 | 134.0 | 135.3 | 136.8 | 138.2 | 139.5 |
| 75° | 112.3 | 116.3 | 120.5 | 123.1 | 124.3 | 125.5 | 126.8 | 128.0 |
| 77.5° | 101.4 | 105.5 | 109.5 | 112.3 | 113.6 | 114.9 | 116.2 | 117.5 |
| 80° | 94.1 | 98.0 | 102.1 | 104.7 | 106.0 | 107.4 | 108.7 | 110.0 |
| 82.5° | 87.2 | 91.2 | 95.2 | 97.8 | 99.1 | 100.4 | 101.6 | 102.8 |
| 85° | 77.4 | 81.3 | 85.4 | 88.0 | 89.4 | 90.7 | 92.0 | 93.3 |
| 87.5° | 73.8 | 77.4 | 81.5 | 84.3 | 85.5 | 86.7 | 87.9 | 89.2 |
| 90° | 87.8 | 90.0 | 95.3 | 98.5 | 99.6 | 100.9 | 102.0 | 103.1 |
| 92.5° | 125.2 | 119.7 | 117.3 | 115.2 | 115.7 | 114.5 | 116.2 | 116.2 |
| 95° | 249.5 | 208.2 | 180.9 | 167.0 | 158.6 | 153.8 | 152.8 | 154.7 |
| 97.5° | 503.0 | 424.6 | 348.5 | 297.6 | 263.5 | 246.5 | 236.9 | 231.8 |
| 100° | 722.6 | 634.7 | 537.2 | 450.4 | 390.3 | 359.7 | 339.3 | 327.2 |
| 102.5° | 865.6 | 848.4 | 778.0 | 685.8 | 620.4 | 567.3 | 541.8 | 524.8 |
| 105° | 938.7 | 1025.3 | 1038.2 | 1016.1 | 971.4 | 926.8 | 896.2 | 886.8 |
| 107.5° | 879.5 | 1008.0 | 1087.9 | 1125.7 | 1132.5 | 1131.1 | 1125.8 | 1113.0 |
| 110° | 829.4 | 964.3 | 1061.7 | 1124.2 | 1156.9 | 1172.0 | 1179.6 | 1179.9 |



TEST NUMBER: P331263-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 783.3 | 913.0 | 1016.8 | 1088.2 | 1133.2 | 1157.7 | 1171.3 | 1176.3 |
| 115° | 726.2 | 842.5 | 941.9 | 1019.7 | 1073.1 | 1108.1 | 1128.2 | 1135.9 |
| 117.5° | 682.2 | 784.7 | 875.0 | 948.1 | 1002.4 | 1039.2 | 1060.4 | 1066.9 |
| 120° | 659.8 | 753.8 | 834.6 | 903.5 | 956.1 | 991.8 | 1014.3 | 1022.7 |
| 122.5° | 641.7 | 728.0 | 804.6 | 866.9 | 914.0 | 949.0 | 968.8 | 975.9 |
| 125° | 615.0 | 693.5 | 760.9 | 817.8 | 861.5 | 890.3 | 909.6 | 916.3 |
| 127.5° | 588.7 | 659.7 | 723.2 | 775.8 | 813.9 | 841.0 | 857.7 | 863.3 |
| 130° | 571.7 | 637.3 | 697.9 | 748.0 | 784.9 | 810.7 | 826.2 | 832.8 |
| 132.5° | 555.3 | 616.2 | 671.9 | 719.1 | 755.4 | 781.2 | 795.5 | 801.5 |
| 135° | 532.5 | 583.2 | 633.9 | 676.5 | 708.9 | 734.0 | 748.0 | 751.7 |
| 137.5° | 513.8 | 556.2 | 596.6 | 633.8 | 663.3 | 684.9 | 697.1 | 702.2 |
| 140° | 502.0 | 538.9 | 574.3 | 607.8 | 631.9 | 651.6 | 663.3 | 668.3 |
| 142.5° | 492.4 | 523.7 | 554.1 | 582.0 | 604.9 | 622.8 | 633.2 | 634.6 |
| 145° | 479.3 | 504.2 | 527.6 | 549.5 | 567.7 | 580.7 | 588.5 | 591.2 |
| 147.5° | 469.3 | 488.6 | 506.5 | 522.3 | 537.1 | 547.3 | 552.5 | 554.1 |
| 150° | 462.7 | 478.9 | 494.4 | 507.7 | 518.7 | 527.5 | 532.0 | 532.7 |
| 152.5° | 456.2 | 471.3 | 484.4 | 495.9 | 504.5 | 512.2 | 515.5 | 515.6 |
| 155° | 447.2 | 459.0 | 470.0 | 478.2 | 486.3 | 491.4 | 494.4 | 492.9 |
| 157.5° | 436.8 | 446.7 | 455.9 | 462.2 | 468.0 | 472.3 | 473.6 | 473.6 |
| 160° | 430.3 | 438.4 | 446.5 | 451.7 | 456.9 | 460.5 | 461.2 | 461.2 |
| 162.5° | 423.8 | 430.7 | 437.6 | 441.7 | 446.8 | 449.3 | 450.1 | 449.4 |
| 165° | 414.1 | 419.2 | 424.4 | 427.3 | 430.3 | 433.2 | 433.2 | 432.5 |
| 167.5° | 404.8 | 408.8 | 412.3 | 415.0 | 416.3 | 417.9 | 417.7 | 416.9 |
| 170° | 400.1 | 402.3 | 405.2 | 406.7 | 407.5 | 409.6 | 408.9 | 407.5 |
| 172.5° | 394.7 | 396.4 | 398.8 | 399.6 | 400.4 | 401.4 | 400.7 | 399.8 |
| 175° | 389.0 | 389.7 | 390.5 | 391.2 | 391.2 | 392.0 | 391.2 | 389.7 |
| 177.5° | 384.9 | 384.9 | 385.5 | 385.5 | 385.5 | 385.5 | 384.9 | 383.7 |
| 180° | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 |

(END OF REPORT)