

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: P331281-830

Luminaire Tested: **SA2XXDIP-C290D1080U830-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331281-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C290D1080U830-4F0-1E-UDD-D4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

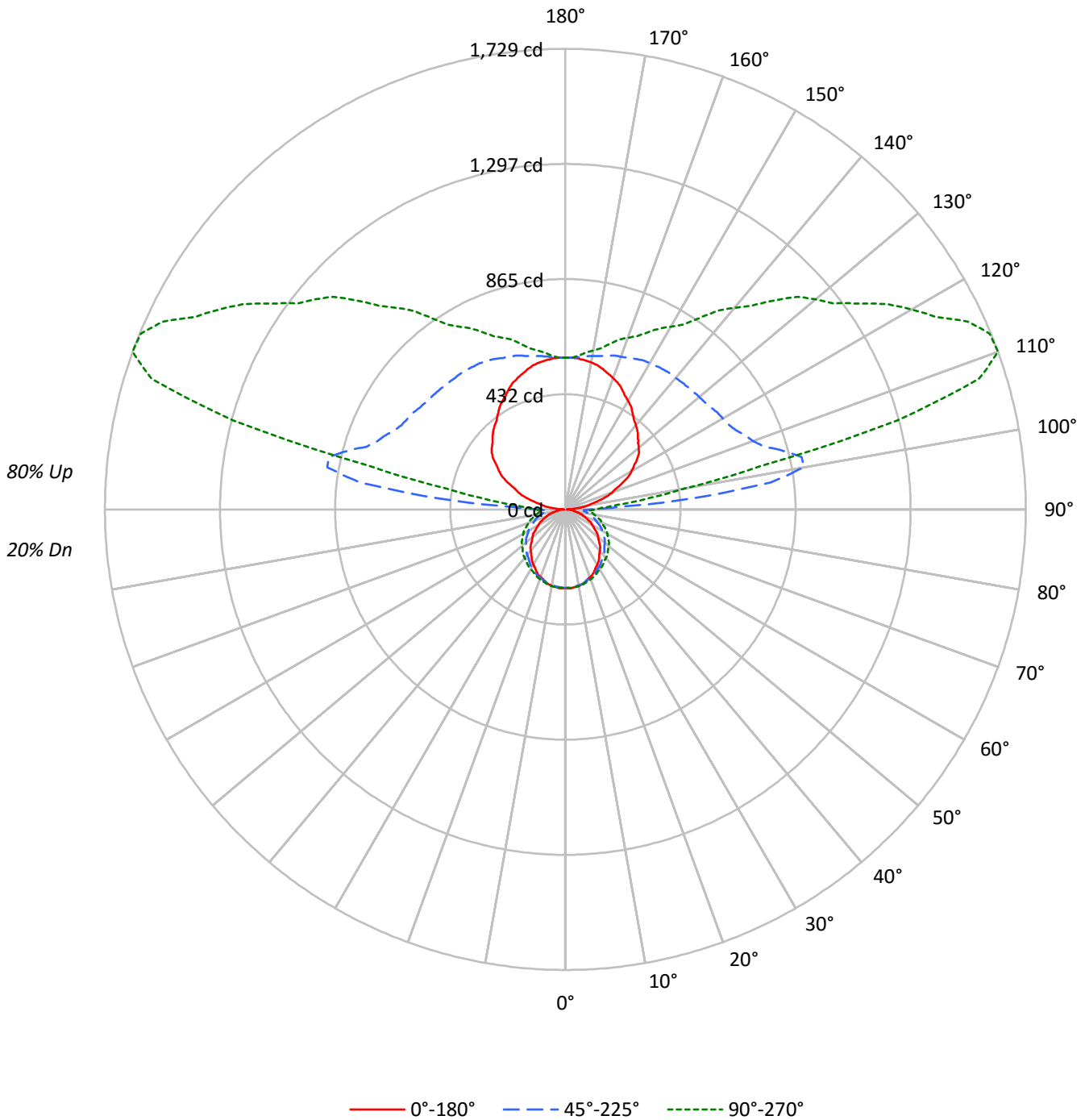
Lumens per Lamp: N/A
Luminaire Lumens: 5094.3 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

Input Watts (W): 42.2
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: P331281-830
CATALOG NUMBER: SA2XXDIP-C290D1080U830-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331281-830

CATALOG NUMBER: SA2XXDIP-C290D1080U830-4F0-1E-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 | 100 | 100 | 100 | 100 | 88 | 88 | 88 | 88 | 67 | 67 | 67 | 47 | 47 | 47 | 28 | 28 | 28 | 20 |
| 1 | 90 | 86 | 82 | 79 | 80 | 76 | 73 | 70 | 57 | 55 | 53 | 40 | 39 | 37 | 24 | 23 | 23 | 15 |
| 2 | 82 | 75 | 69 | 64 | 72 | 66 | 61 | 57 | 50 | 46 | 43 | 35 | 33 | 31 | 21 | 20 | 19 | 12 |
| 3 | 75 | 65 | 58 | 53 | 65 | 58 | 52 | 47 | 44 | 39 | 36 | 30 | 28 | 26 | 18 | 17 | 16 | 10 |
| 4 | 68 | 58 | 50 | 44 | 60 | 51 | 44 | 39 | 38 | 34 | 30 | 27 | 24 | 22 | 16 | 15 | 13 | 9 |
| 5 | 62 | 51 | 43 | 37 | 55 | 45 | 38 | 33 | 34 | 30 | 26 | 24 | 21 | 19 | 14 | 13 | 11 | 7 |
| 6 | 57 | 45 | 38 | 32 | 50 | 40 | 34 | 29 | 31 | 26 | 22 | 21 | 18 | 16 | 13 | 11 | 10 | 6 |
| 7 | 53 | 41 | 33 | 28 | 46 | 36 | 30 | 25 | 28 | 23 | 19 | 19 | 16 | 14 | 12 | 10 | 9 | 6 |
| 8 | 49 | 37 | 29 | 24 | 43 | 33 | 26 | 22 | 25 | 20 | 17 | 18 | 15 | 12 | 11 | 9 | 8 | 5 |
| 9 | 45 | 33 | 26 | 21 | 40 | 30 | 23 | 19 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 8 | 7 | 4 |
| 10 | 42 | 30 | 23 | 19 | 37 | 27 | 21 | 17 | 21 | 16 | 13 | 15 | 12 | 10 | 9 | 7 | 6 | 4 |

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: P331281-830

CATALOG NUMBER: SA2XXDIP-C290D1080U830-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.0 | 0.5 |
| 10°-20° | 80.3 | 1.6 |
| 20°-30° | 121.6 | 2.4 |
| 30°-40° | 148.2 | 2.9 |
| 40°-50° | 159.4 | 3.1 |
| 50°-60° | 154.8 | 3.0 |
| 60°-70° | 135.2 | 2.7 |
| 70°-80° | 104.1 | 2.0 |
| 80°-90° | 75.0 | 1.5 |
| 90°-100° | 275.8 | 5.4 |
| 100°-110° | 807.7 | 15.9 |
| 110°-120° | 843.9 | 16.6 |
| 120°-130° | 688.6 | 13.5 |
| 130°-140° | 548.0 | 10.8 |
| 140°-150° | 410.9 | 8.1 |
| 150°-160° | 288.1 | 5.7 |
| 160°-170° | 169.6 | 3.3 |
| 170°-180° | 55.2 | 1.1 |
| 0°-30° | 229.9 | 4.5 |
| 0°-40° | 378.1 | 7.4 |
| 0°-60° | 692.3 | 13.6 |
| 0°-90° | 1006.5 | 19.8 |
| 90°-120° | 1927.3 | 37.8 |
| 90°-150° | 3574.8 | 70.2 |
| 90°-180° | 4088.0 | 80.2 |
| 0°-180° | 5094.3 | 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 | 44 | 94 | 109 | 115 | 5 |
| 95° | 42 | 118 | 478 | 227 | 196 | 43 |
| 105° | 136 | 217 | 848 | 1501 | 1290 | 144 |
| 115° | 237 | 305 | 705 | 1439 | 1667 | 235 |
| 125° | 329 | 390 | 667 | 1161 | 1347 | 292 |
| 135° | 386 | 461 | 650 | 967 | 1109 | 298 |
| 145° | 440 | 506 | 642 | 799 | 876 | 276 |
| 155° | 500 | 540 | 623 | 705 | 732 | 230 |
| 165° | 545 | 562 | 597 | 633 | 643 | 154 |
| 175° | 568 | 569 | 574 | 581 | 579 | 54 |
| 180° | 569 | 569 | 569 | 569 | 569 | |



TEST NUMBER: P331281-830
 CATALOG NUMBER: SA2XXDIP-C290D1080U830-4F0-1E-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 | 14.9 | 21.5 | 27.6 | 33.7 | 40.2 | 47.4 | 55.0 | 62.5 | 68.8 | 72.4 |
| 90° | 5.4 | 14.1 | 24.0 | 31.8 | 39.5 | 48.5 | 60.1 | 73.9 | 86.5 | 93.8 | 96.4 |
| 92.5° | 17.3 | 28.4 | 41.4 | 51.4 | 63.9 | 79.7 | 110.3 | 151.0 | 187.9 | 195.8 | 177.4 |
| 95° | 41.8 | 50.6 | 66.0 | 80.3 | 102.4 | 133.7 | 189.8 | 290.8 | 423.5 | 478.4 | 428.4 |
| 97.5° | 65.4 | 75.3 | 90.9 | 109.7 | 133.8 | 168.3 | 237.1 | 375.3 | 591.9 | 778.3 | 817.7 |
| 100° | 87.3 | 94.1 | 107.4 | 128.6 | 153.9 | 189.1 | 252.4 | 391.2 | 633.1 | 907.8 | 1069.0 |
| 102.5° | 107.1 | 112.7 | 125.8 | 146.6 | 172.5 | 207.4 | 266.2 | 390.1 | 614.3 | 909.8 | 1161.1 |
| 105° | 135.7 | 142.9 | 153.3 | 172.5 | 199.3 | 233.8 | 290.2 | 392.7 | 578.2 | 848.2 | 1142.7 |
| 107.5° | 167.2 | 172.9 | 182.6 | 199.8 | 225.9 | 260.2 | 314.9 | 404.6 | 558.7 | 782.5 | 1042.9 |
| 110° | 187.8 | 194.2 | 202.6 | 218.8 | 243.6 | 278.7 | 331.5 | 415.0 | 553.3 | 750.6 | 980.3 |



TEST NUMBER: P331281-830

CATALOG NUMBER: SA2XXDIP-C290D1080U830-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 207.1 | 213.1 | 222.2 | 237.1 | 260.8 | 296.4 | 347.3 | 426.2 | 552.0 | 729.0 | 935.9 |
| 115° | 237.1 | 243.6 | 251.3 | 265.4 | 288.4 | 320.7 | 372.0 | 443.1 | 553.6 | 704.6 | 880.4 |
| 117.5° | 267.8 | 272.9 | 280.1 | 292.4 | 314.1 | 347.0 | 394.6 | 461.2 | 558.3 | 690.7 | 844.0 |
| 120° | 287.1 | 291.8 | 298.8 | 309.0 | 331.3 | 364.0 | 410.6 | 473.4 | 561.6 | 682.6 | 824.3 |
| 122.5° | 305.5 | 309.2 | 315.8 | 326.7 | 348.7 | 382.2 | 425.8 | 484.2 | 565.9 | 677.0 | 807.3 |
| 125° | 329.3 | 332.6 | 339.2 | 352.3 | 374.2 | 406.4 | 448.8 | 501.1 | 572.1 | 667.1 | 782.5 |
| 127.5° | 348.6 | 352.9 | 362.0 | 376.4 | 397.3 | 430.0 | 470.8 | 517.5 | 579.0 | 660.3 | 759.5 |
| 130° | 360.0 | 364.3 | 375.1 | 390.4 | 412.2 | 443.7 | 484.1 | 527.7 | 584.5 | 656.5 | 744.2 |
| 132.5° | 370.5 | 375.7 | 387.4 | 403.5 | 426.2 | 457.6 | 495.7 | 537.9 | 589.8 | 653.6 | 731.6 |
| 135° | 385.9 | 390.2 | 403.3 | 419.8 | 445.0 | 476.1 | 512.1 | 551.4 | 596.2 | 649.6 | 714.1 |
| 137.5° | 400.8 | 406.0 | 419.1 | 436.6 | 461.6 | 490.2 | 525.2 | 561.4 | 601.6 | 647.0 | 701.0 |
| 140° | 412.1 | 416.4 | 429.4 | 446.9 | 470.9 | 499.4 | 532.4 | 566.6 | 604.0 | 644.7 | 693.2 |
| 142.5° | 423.5 | 426.9 | 439.1 | 456.5 | 479.7 | 506.3 | 538.3 | 571.5 | 606.1 | 643.9 | 686.2 |
| 145° | 440.2 | 444.5 | 455.5 | 471.9 | 493.8 | 517.9 | 547.4 | 578.2 | 608.8 | 641.6 | 677.2 |
| 147.5° | 458.5 | 461.8 | 472.3 | 487.5 | 505.7 | 527.1 | 554.9 | 581.8 | 609.6 | 637.7 | 668.5 |
| 150° | 470.8 | 474.1 | 482.9 | 497.1 | 513.5 | 533.2 | 558.5 | 583.6 | 608.8 | 635.1 | 661.3 |
| 152.5° | 483.1 | 484.7 | 493.3 | 505.9 | 521.4 | 539.3 | 561.9 | 584.5 | 607.0 | 630.7 | 655.2 |
| 155° | 500.4 | 501.4 | 508.0 | 520.1 | 532.2 | 548.6 | 567.1 | 585.8 | 604.4 | 623.0 | 643.9 |
| 157.5° | 514.8 | 515.9 | 521.2 | 531.7 | 541.3 | 555.2 | 570.9 | 585.8 | 599.4 | 615.1 | 633.1 |
| 160° | 524.4 | 525.6 | 529.9 | 538.7 | 547.4 | 559.5 | 572.7 | 585.8 | 596.7 | 609.9 | 625.2 |
| 162.5° | 534.1 | 533.5 | 537.8 | 544.8 | 552.7 | 562.1 | 573.5 | 584.9 | 594.1 | 605.5 | 618.2 |
| 165° | 545.3 | 544.2 | 546.4 | 552.9 | 558.5 | 565.0 | 574.9 | 582.5 | 589.1 | 596.7 | 606.6 |
| 167.5° | 554.5 | 553.2 | 555.2 | 559.3 | 563.3 | 567.4 | 574.6 | 581.0 | 584.0 | 589.1 | 595.2 |
| 170° | 560.6 | 558.5 | 559.5 | 562.8 | 565.0 | 568.3 | 573.7 | 579.2 | 581.4 | 584.7 | 589.1 |
| 172.5° | 564.1 | 562.8 | 562.1 | 565.4 | 566.8 | 569.1 | 572.9 | 576.6 | 577.9 | 579.5 | 583.0 |
| 175° | 568.3 | 567.1 | 566.1 | 568.3 | 568.3 | 569.4 | 571.6 | 573.7 | 572.7 | 573.7 | 574.9 |
| 177.5° | 570.2 | 568.4 | 567.6 | 569.4 | 569.4 | 569.4 | 570.2 | 572.0 | 570.2 | 569.4 | 570.2 |
| 180° | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 |



TEST NUMBER: P331281-830

CATALOG NUMBER: SA2XXDIP-C290D1080U830-4F0-1E-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° | 76.1 | 79.6 | 83.9 | 86.6 | 87.8 | 89.1 | 90.3 | 91.5 |
| 90° | 99.2 | 100.8 | 106.8 | 110.4 | 111.5 | 112.6 | 113.8 | 114.9 |
| 92.5° | 156.4 | 146.6 | 141.1 | 136.7 | 137.0 | 134.6 | 136.7 | 136.0 |
| 95° | 343.4 | 280.1 | 237.8 | 216.1 | 203.0 | 195.4 | 193.2 | 195.5 |
| 97.5° | 722.1 | 603.8 | 488.9 | 412.1 | 360.9 | 335.1 | 320.2 | 312.2 |
| 100° | 1049.5 | 917.3 | 770.8 | 640.6 | 550.7 | 504.7 | 474.0 | 455.3 |
| 102.5° | 1263.3 | 1236.1 | 1129.8 | 991.7 | 894.0 | 814.7 | 776.1 | 750.5 |
| 105° | 1373.9 | 1500.9 | 1518.4 | 1484.5 | 1417.7 | 1350.9 | 1304.8 | 1290.5 |
| 107.5° | 1287.7 | 1477.2 | 1594.3 | 1649.4 | 1659.1 | 1656.3 | 1647.9 | 1628.6 |
| 110° | 1214.4 | 1413.4 | 1556.6 | 1648.4 | 1696.6 | 1718.4 | 1729.4 | 1729.3 |



TEST NUMBER: P331281-830

CATALOG NUMBER: SA2XXDIP-C290D1080U830-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1147.2 | 1338.3 | 1491.2 | 1596.1 | 1662.6 | 1698.6 | 1718.2 | 1725.1 |
| 115° | 1063.9 | 1235.4 | 1381.7 | 1496.4 | 1575.2 | 1626.6 | 1656.1 | 1667.0 |
| 117.5° | 1000.3 | 1151.2 | 1284.0 | 1391.8 | 1472.0 | 1526.2 | 1557.2 | 1566.4 |
| 120° | 968.2 | 1106.6 | 1225.3 | 1326.8 | 1404.5 | 1457.1 | 1489.9 | 1501.8 |
| 122.5° | 942.4 | 1069.3 | 1181.9 | 1273.6 | 1343.2 | 1394.7 | 1423.8 | 1433.9 |
| 125° | 904.4 | 1019.7 | 1118.7 | 1202.5 | 1266.9 | 1309.3 | 1337.6 | 1347.2 |
| 127.5° | 867.0 | 971.4 | 1064.6 | 1142.0 | 1198.2 | 1238.0 | 1262.5 | 1270.4 |
| 130° | 842.8 | 939.3 | 1028.0 | 1101.8 | 1156.3 | 1194.3 | 1216.9 | 1226.4 |
| 132.5° | 819.6 | 909.0 | 990.7 | 1060.1 | 1113.6 | 1151.6 | 1172.5 | 1181.1 |
| 135° | 787.2 | 861.5 | 935.8 | 998.4 | 1046.2 | 1083.2 | 1103.6 | 1108.8 |
| 137.5° | 760.8 | 822.9 | 882.1 | 936.7 | 980.3 | 1012.0 | 1030.0 | 1037.2 |
| 140° | 744.0 | 798.1 | 850.1 | 899.3 | 934.9 | 963.9 | 980.9 | 988.1 |
| 142.5° | 730.5 | 776.4 | 821.0 | 862.1 | 895.9 | 922.3 | 937.5 | 939.2 |
| 145° | 711.7 | 748.5 | 783.0 | 815.2 | 842.0 | 861.1 | 872.5 | 876.3 |
| 147.5° | 697.4 | 725.9 | 752.5 | 775.9 | 797.8 | 812.9 | 820.6 | 822.7 |
| 150° | 687.6 | 711.7 | 734.7 | 754.4 | 770.8 | 784.0 | 790.5 | 791.6 |
| 152.5° | 678.0 | 700.3 | 719.8 | 736.9 | 749.8 | 761.2 | 766.0 | 766.2 |
| 155° | 664.6 | 682.1 | 698.5 | 710.6 | 722.6 | 730.3 | 734.7 | 732.5 |
| 157.5° | 649.0 | 663.7 | 677.5 | 686.9 | 695.5 | 701.8 | 703.8 | 703.8 |
| 160° | 639.4 | 651.5 | 663.5 | 671.2 | 678.8 | 684.3 | 685.4 | 685.4 |
| 162.5° | 629.8 | 640.1 | 650.4 | 656.3 | 663.9 | 667.7 | 668.7 | 667.9 |
| 165° | 615.4 | 623.0 | 630.7 | 635.1 | 639.4 | 643.9 | 643.9 | 642.7 |
| 167.5° | 601.5 | 607.5 | 612.7 | 616.7 | 618.6 | 621.0 | 620.9 | 619.5 |
| 170° | 594.6 | 597.9 | 602.2 | 604.4 | 605.5 | 608.8 | 607.7 | 605.5 |
| 172.5° | 586.6 | 589.1 | 592.6 | 593.9 | 595.0 | 596.5 | 595.4 | 594.1 |
| 175° | 578.2 | 579.2 | 580.3 | 581.4 | 581.4 | 582.5 | 581.4 | 579.2 |
| 177.5° | 572.0 | 572.0 | 572.9 | 572.9 | 572.9 | 572.9 | 572.0 | 570.2 |
| 180° | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 |

(END OF REPORT)