

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: P331257

Luminaire Tested: **SA2XXDIP-C290D530U835-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331257
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-C290D530U835-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

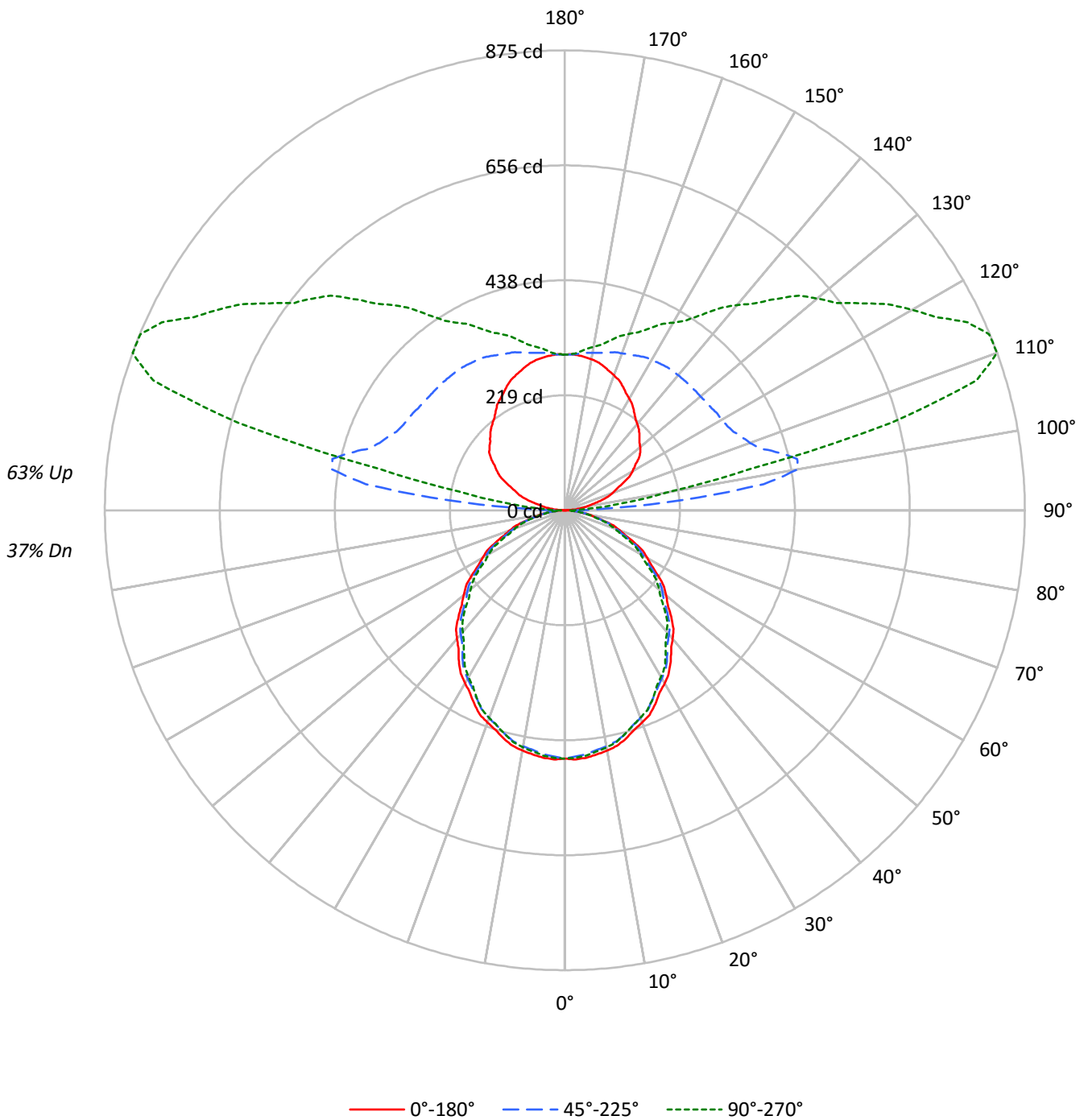
Lumens per Lamp: N/A
Luminaire Lumens: 3268.2 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 25.6
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: P331257
CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331257

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-F4

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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 37 |
| 1 | 95 | 91 | 87 | 83 | 86 | 82 | 79 | 76 | 67 | 64 | 62 | 52 | 51 | 49 | 39 | 38 | 37 | 31 |
| 2 | 86 | 79 | 73 | 68 | 78 | 72 | 67 | 62 | 58 | 55 | 52 | 46 | 43 | 41 | 34 | 33 | 31 | 26 |
| 3 | 79 | 69 | 62 | 57 | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 40 | 37 | 35 | 30 | 28 | 27 | 22 |
| 4 | 72 | 61 | 54 | 48 | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5 | 66 | 55 | 47 | 41 | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 29 | 26 | 24 | 22 | 20 | 16 |
| 6 | 61 | 49 | 41 | 35 | 55 | 45 | 38 | 33 | 37 | 31 | 28 | 29 | 25 | 22 | 22 | 20 | 18 | 14 |
| 7 | 56 | 44 | 36 | 31 | 51 | 40 | 33 | 29 | 33 | 28 | 24 | 26 | 23 | 20 | 20 | 18 | 16 | 13 |
| 8 | 52 | 40 | 32 | 27 | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 19 | 16 | 14 | 11 |
| 9 | 48 | 36 | 29 | 24 | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 18 | 16 | 17 | 14 | 13 | 10 |
| 10 | 45 | 33 | 26 | 22 | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 16 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7627 | 7627 | 7627 |
| 5° | 7656 | 7546 | 7592 |
| 10° | 7612 | 7470 | 7507 |
| 15° | 7517 | 7373 | 7366 |
| 20° | 7383 | 7228 | 7220 |
| 25° | 7251 | 7049 | 7049 |
| 30° | 7081 | 6885 | 6825 |
| 35° | 6922 | 6688 | 6589 |
| 40° | 6721 | 6492 | 6367 |
| 45° | 6524 | 6295 | 6140 |
| 50° | 6310 | 6094 | 5878 |
| 55° | 6086 | 5858 | 5638 |
| 60° | 5838 | 5574 | 5370 |
| 65° | 5570 | 5295 | 5051 |
| 70° | 5231 | 4952 | 4716 |
| 75° | 4760 | 4560 | 4448 |
| 80° | 4221 | 4100 | 3887 |
| 85° | 3446 | 3279 | 2946 |



TEST NUMBER: P331257

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.4 | 1.4 |
| 10°-20° | 125.0 | 3.8 |
| 20°-30° | 183.7 | 5.6 |
| 30°-40° | 213.4 | 6.5 |
| 40°-50° | 213.2 | 6.5 |
| 50°-60° | 185.9 | 5.7 |
| 60°-70° | 137.5 | 4.2 |
| 70°-80° | 77.9 | 2.4 |
| 80°-90° | 23.6 | 0.7 |
| 90°-100° | 118.6 | 3.6 |
| 100°-110° | 402.4 | 12.3 |
| 110°-120° | 427.5 | 13.1 |
| 120°-130° | 351.9 | 10.8 |
| 130°-140° | 282.6 | 8.6 |
| 140°-150° | 213.5 | 6.5 |
| 150°-160° | 150.1 | 4.6 |
| 160°-170° | 88.3 | 2.7 |
| 170°-180° | 28.8 | 0.9 |
| 0°-30° | 353.2 | 10.8 |
| 0°-40° | 566.6 | 17.3 |
| 0°-60° | 965.7 | 29.5 |
| 0°-90° | 1204.6 | 36.9 |
| 90°-120° | 948.4 | 29.0 |
| 90°-150° | 1796.4 | 55.0 |
| 90°-180° | 2064.0 | 63.2 |
| 0°-180° | 3268.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 472 | 472 | 472 | 472 | 472 | |
| 5° | 472 | 470 | 466 | 469 | 468 | 45 |
| 15° | 450 | 447 | 441 | 443 | 441 | 127 |
| 25° | 407 | 403 | 396 | 396 | 396 | 187 |
| 35° | 351 | 346 | 339 | 337 | 334 | 219 |
| 45° | 286 | 282 | 276 | 271 | 269 | 220 |
| 55° | 216 | 213 | 208 | 203 | 200 | 193 |
| 65° | 146 | 143 | 139 | 135 | 132 | 144 |
| 75° | 76 | 75 | 73 | 71 | 71 | 82 |
| 85° | 19 | 18 | 18 | 16 | 16 | 21 |
| 90° | 1 | 8 | 19 | 18 | 19 | 2 |
| 95° | 20 | 49 | 224 | 84 | 65 | 21 |
| 105° | 70 | 105 | 423 | 755 | 643 | 74 |
| 115° | 123 | 155 | 354 | 730 | 846 | 122 |
| 125° | 171 | 202 | 340 | 591 | 686 | 152 |
| 135° | 201 | 240 | 336 | 497 | 569 | 155 |
| 145° | 229 | 263 | 334 | 415 | 454 | 144 |
| 155° | 261 | 281 | 324 | 367 | 382 | 120 |
| 165° | 284 | 293 | 311 | 330 | 335 | 80 |
| 175° | 296 | 296 | 299 | 303 | 302 | 28 |
| 180° | 296 | 296 | 296 | 296 | 296 | |



TEST NUMBER: P331257

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 |
| 2.5° | 474.6 | 474.2 | 473.8 | 473.4 | 473.0 | 472.4 | 471.5 | 470.6 | 469.7 | 468.8 | 469.6 |
| 5° | 472.4 | 472.0 | 471.6 | 471.2 | 470.8 | 470.1 | 469.0 | 467.9 | 466.7 | 465.6 | 466.4 |
| 7.5° | 468.3 | 467.6 | 467.0 | 466.4 | 465.8 | 464.9 | 463.8 | 462.6 | 461.5 | 460.4 | 461.2 |
| 10° | 464.3 | 463.6 | 462.9 | 462.2 | 461.4 | 460.5 | 459.3 | 458.1 | 456.9 | 455.6 | 456.4 |
| 12.5° | 458.8 | 458.2 | 457.6 | 456.9 | 456.3 | 455.4 | 454.2 | 453.0 | 451.8 | 450.6 | 451.1 |
| 15° | 449.7 | 449.1 | 448.5 | 447.9 | 447.3 | 446.4 | 445.0 | 443.7 | 442.4 | 441.1 | 441.5 |
| 17.5° | 438.1 | 437.5 | 436.9 | 436.3 | 435.7 | 434.7 | 433.4 | 432.0 | 430.7 | 429.4 | 429.8 |
| 20° | 429.7 | 429.1 | 428.5 | 427.9 | 427.3 | 426.3 | 424.9 | 423.5 | 422.1 | 420.7 | 421.0 |
| 22.5° | 421.4 | 420.5 | 419.7 | 418.8 | 418.0 | 416.9 | 415.6 | 414.2 | 412.9 | 411.6 | 411.6 |
| 25° | 407.0 | 406.2 | 405.4 | 404.6 | 403.8 | 402.5 | 400.8 | 399.1 | 397.4 | 395.7 | 395.9 |
| 27.5° | 390.7 | 390.0 | 389.2 | 388.5 | 387.8 | 386.7 | 385.4 | 384.0 | 382.7 | 381.3 | 381.0 |
| 30° | 379.8 | 379.0 | 378.2 | 377.4 | 376.5 | 375.4 | 373.9 | 372.4 | 370.8 | 369.3 | 369.0 |
| 32.5° | 368.1 | 367.5 | 366.9 | 366.2 | 365.6 | 364.4 | 362.8 | 361.3 | 359.7 | 358.1 | 357.5 |
| 35° | 351.2 | 350.1 | 349.1 | 348.1 | 347.1 | 345.8 | 344.2 | 342.6 | 341.0 | 339.3 | 338.7 |
| 37.5° | 332.0 | 331.1 | 330.2 | 329.3 | 328.4 | 327.2 | 325.6 | 324.0 | 322.3 | 320.7 | 320.0 |
| 40° | 318.9 | 318.1 | 317.3 | 316.5 | 315.7 | 314.5 | 312.8 | 311.2 | 309.6 | 308.0 | 307.1 |
| 42.5° | 306.2 | 305.4 | 304.6 | 303.8 | 303.0 | 301.7 | 300.1 | 298.5 | 296.9 | 295.3 | 294.3 |
| 45° | 285.7 | 285.0 | 284.3 | 283.6 | 282.9 | 281.8 | 280.3 | 278.8 | 277.3 | 275.7 | 274.6 |
| 47.5° | 265.4 | 264.7 | 264.1 | 263.4 | 262.7 | 261.6 | 260.0 | 258.5 | 256.9 | 255.3 | 254.1 |
| 50° | 251.2 | 250.7 | 250.2 | 249.7 | 249.2 | 248.2 | 246.8 | 245.4 | 244.0 | 242.6 | 241.2 |
| 52.5° | 237.4 | 236.7 | 236.1 | 235.4 | 234.7 | 233.7 | 232.4 | 231.1 | 229.7 | 228.4 | 227.2 |
| 55° | 216.2 | 215.6 | 215.0 | 214.4 | 213.8 | 212.9 | 211.7 | 210.5 | 209.3 | 208.1 | 206.8 |
| 57.5° | 195.0 | 194.5 | 194.0 | 193.5 | 193.0 | 192.1 | 190.8 | 189.5 | 188.1 | 186.8 | 185.6 |
| 60° | 180.8 | 180.4 | 180.0 | 179.6 | 179.2 | 178.3 | 176.9 | 175.5 | 174.0 | 172.6 | 171.5 |
| 62.5° | 167.0 | 166.3 | 165.7 | 165.1 | 164.4 | 163.5 | 162.4 | 161.4 | 160.3 | 159.2 | 158.1 |
| 65° | 145.8 | 145.2 | 144.6 | 144.0 | 143.4 | 142.6 | 141.6 | 140.6 | 139.6 | 138.6 | 137.6 |
| 67.5° | 124.3 | 123.8 | 123.3 | 122.8 | 122.4 | 121.7 | 120.7 | 119.8 | 118.9 | 118.0 | 117.3 |
| 70° | 110.8 | 110.4 | 110.0 | 109.6 | 109.2 | 108.6 | 107.7 | 106.8 | 105.8 | 104.9 | 104.2 |
| 72.5° | 97.0 | 96.6 | 96.2 | 95.8 | 95.4 | 94.9 | 94.3 | 93.8 | 93.2 | 92.6 | 91.9 |
| 75° | 76.3 | 76.1 | 75.9 | 75.7 | 75.5 | 75.2 | 74.7 | 74.1 | 73.6 | 73.1 | 72.5 |
| 77.5° | 57.8 | 57.4 | 57.1 | 56.8 | 56.4 | 56.1 | 55.9 | 55.7 | 55.5 | 55.3 | 55.0 |
| 80° | 45.4 | 45.3 | 45.2 | 45.1 | 45.0 | 44.9 | 44.7 | 44.5 | 44.3 | 44.1 | 43.8 |
| 82.5° | 33.8 | 33.8 | 33.8 | 33.7 | 33.7 | 33.6 | 33.5 | 33.4 | 33.3 | 33.2 | 32.8 |
| 85° | 18.6 | 18.5 | 18.4 | 18.3 | 18.2 | 18.1 | 18.0 | 17.9 | 17.8 | 17.7 | 17.4 |
| 87.5° | 6.7 | 6.8 | 7.1 | 7.2 | 7.3 | 7.4 | 7.9 | 8.5 | 9.0 | 9.0 | 8.6 |
| 90° | 0.6 | 2.3 | 4.6 | 5.7 | 6.8 | 8.6 | 11.4 | 15.4 | 18.8 | 19.4 | 18.8 |
| 92.5° | 7.0 | 10.0 | 14.1 | 16.7 | 20.5 | 25.9 | 38.8 | 56.9 | 73.1 | 74.1 | 62.6 |
| 95° | 20.0 | 22.2 | 27.9 | 33.1 | 42.2 | 55.9 | 82.1 | 131.7 | 197.9 | 223.6 | 195.6 |
| 97.5° | 32.5 | 35.6 | 41.6 | 49.4 | 59.9 | 75.4 | 108.4 | 177.5 | 287.4 | 381.6 | 400.3 |
| 100° | 43.9 | 45.6 | 50.8 | 59.9 | 71.3 | 87.3 | 117.5 | 187.1 | 310.2 | 450.5 | 532.6 |
| 102.5° | 54.4 | 55.7 | 60.8 | 69.9 | 81.8 | 97.7 | 125.7 | 187.5 | 301.6 | 452.8 | 581.9 |
| 105° | 69.6 | 71.9 | 75.8 | 84.4 | 96.9 | 112.9 | 139.7 | 190.5 | 284.6 | 422.6 | 574.3 |
| 107.5° | 86.0 | 87.8 | 91.7 | 99.6 | 112.0 | 128.1 | 154.1 | 198.3 | 276.1 | 390.2 | 524.2 |
| 110° | 96.9 | 99.2 | 102.7 | 110.1 | 122.0 | 138.6 | 163.7 | 204.7 | 274.3 | 374.7 | 492.7 |



TEST NUMBER: P331257

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 107.0 | 109.3 | 113.1 | 120.1 | 131.6 | 148.6 | 172.8 | 211.6 | 274.8 | 364.6 | 470.8 |
| 115° | 122.6 | 125.5 | 128.9 | 135.7 | 147.1 | 162.5 | 187.1 | 221.8 | 277.2 | 353.6 | 443.7 |
| 117.5° | 138.8 | 141.1 | 144.5 | 150.6 | 161.5 | 177.5 | 200.2 | 232.8 | 281.3 | 348.2 | 426.6 |
| 120° | 148.8 | 151.1 | 154.5 | 159.7 | 171.1 | 187.1 | 209.3 | 240.1 | 284.0 | 345.0 | 417.5 |
| 122.5° | 158.4 | 160.3 | 163.7 | 169.3 | 180.7 | 197.1 | 218.0 | 246.5 | 287.2 | 343.2 | 409.7 |
| 125° | 171.1 | 172.8 | 176.2 | 183.1 | 194.5 | 210.4 | 231.0 | 256.6 | 292.0 | 339.9 | 398.6 |
| 127.5° | 181.1 | 183.4 | 188.2 | 195.7 | 206.7 | 223.1 | 243.1 | 266.1 | 296.9 | 338.0 | 388.4 |
| 130° | 187.1 | 189.3 | 195.0 | 203.0 | 214.4 | 230.4 | 250.4 | 272.0 | 300.5 | 337.0 | 381.5 |
| 132.5° | 192.5 | 195.3 | 201.4 | 209.9 | 221.7 | 237.7 | 256.7 | 278.0 | 304.2 | 336.6 | 376.0 |
| 135° | 200.7 | 203.0 | 209.9 | 218.4 | 231.5 | 247.5 | 265.8 | 285.7 | 308.5 | 335.9 | 368.4 |
| 137.5° | 208.5 | 211.2 | 218.1 | 227.2 | 240.2 | 255.0 | 273.1 | 291.6 | 312.4 | 335.8 | 363.0 |
| 140° | 214.4 | 216.7 | 223.6 | 232.7 | 245.2 | 260.1 | 277.2 | 294.8 | 314.2 | 335.3 | 359.9 |
| 142.5° | 220.4 | 222.2 | 228.6 | 237.7 | 249.8 | 263.7 | 280.4 | 297.6 | 315.6 | 335.3 | 356.7 |
| 145° | 229.3 | 231.5 | 237.2 | 245.8 | 257.2 | 269.7 | 285.1 | 301.1 | 317.1 | 334.2 | 352.4 |
| 147.5° | 238.8 | 240.5 | 246.0 | 253.9 | 263.4 | 274.5 | 289.0 | 303.1 | 317.5 | 332.1 | 348.1 |
| 150° | 245.2 | 246.9 | 251.5 | 258.9 | 267.5 | 277.7 | 290.8 | 304.0 | 317.1 | 330.8 | 344.5 |
| 152.5° | 251.6 | 252.4 | 257.0 | 263.5 | 271.6 | 280.9 | 292.7 | 304.4 | 316.2 | 328.5 | 341.3 |
| 155° | 260.6 | 261.2 | 264.6 | 270.9 | 277.2 | 285.7 | 295.4 | 305.1 | 314.8 | 324.5 | 335.3 |
| 157.5° | 268.1 | 268.7 | 271.5 | 276.9 | 282.0 | 289.1 | 297.3 | 305.1 | 312.2 | 320.4 | 329.7 |
| 160° | 273.2 | 273.7 | 276.0 | 280.6 | 285.1 | 291.4 | 298.3 | 305.1 | 310.8 | 317.7 | 325.6 |
| 162.5° | 278.2 | 277.8 | 280.1 | 283.8 | 287.9 | 292.8 | 298.7 | 304.6 | 309.4 | 315.4 | 322.0 |
| 165° | 284.0 | 283.4 | 284.6 | 288.0 | 290.8 | 294.3 | 299.4 | 303.4 | 306.8 | 310.8 | 315.9 |
| 167.5° | 288.8 | 288.1 | 289.1 | 291.3 | 293.4 | 295.5 | 299.3 | 302.6 | 304.2 | 306.8 | 310.0 |
| 170° | 292.0 | 290.8 | 291.4 | 293.1 | 294.3 | 296.0 | 298.8 | 301.7 | 302.8 | 304.5 | 306.8 |
| 172.5° | 293.8 | 293.1 | 292.8 | 294.5 | 295.2 | 296.4 | 298.4 | 300.3 | 301.0 | 301.8 | 303.6 |
| 175° | 296.0 | 295.4 | 294.8 | 296.0 | 296.0 | 296.5 | 297.7 | 298.8 | 298.3 | 298.8 | 299.4 |
| 177.5° | 297.0 | 296.1 | 295.6 | 296.5 | 296.5 | 296.5 | 297.0 | 297.9 | 297.0 | 296.5 | 297.0 |
| 180° | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 |



TEST NUMBER: P331257

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 |
| 2.5° | 470.4 | 471.2 | 472.0 | 472.4 | 472.2 | 472.0 | 471.9 | 471.7 |
| 5° | 467.3 | 468.1 | 468.9 | 469.2 | 469.0 | 468.8 | 468.6 | 468.4 |
| 7.5° | 462.0 | 462.8 | 463.6 | 463.9 | 463.7 | 463.4 | 463.2 | 463.0 |
| 10° | 457.3 | 458.1 | 458.9 | 459.1 | 458.8 | 458.5 | 458.2 | 457.9 |
| 12.5° | 451.7 | 452.2 | 452.8 | 453.0 | 452.8 | 452.5 | 452.3 | 452.1 |
| 15° | 441.9 | 442.3 | 442.7 | 442.7 | 442.2 | 441.7 | 441.2 | 440.7 |
| 17.5° | 430.3 | 430.8 | 431.2 | 431.2 | 430.7 | 430.3 | 429.8 | 429.3 |
| 20° | 421.3 | 421.6 | 421.9 | 421.8 | 421.4 | 421.0 | 420.6 | 420.2 |
| 22.5° | 411.7 | 411.8 | 411.8 | 411.7 | 411.5 | 411.2 | 411.0 | 410.8 |
| 25° | 396.1 | 396.3 | 396.5 | 396.5 | 396.3 | 396.1 | 395.9 | 395.7 |
| 27.5° | 380.7 | 380.4 | 380.1 | 379.7 | 379.2 | 378.7 | 378.3 | 377.8 |
| 30° | 368.7 | 368.4 | 368.1 | 367.8 | 367.4 | 367.0 | 366.6 | 366.1 |
| 32.5° | 357.0 | 356.4 | 355.9 | 355.4 | 355.0 | 354.6 | 354.2 | 353.8 |
| 35° | 338.1 | 337.5 | 336.9 | 336.4 | 335.9 | 335.4 | 334.9 | 334.3 |
| 37.5° | 319.2 | 318.5 | 317.7 | 317.1 | 316.6 | 316.1 | 315.7 | 315.2 |
| 40° | 306.2 | 305.3 | 304.4 | 303.7 | 303.3 | 302.9 | 302.5 | 302.1 |
| 42.5° | 293.3 | 292.3 | 291.3 | 290.5 | 290.0 | 289.4 | 288.9 | 288.3 |
| 45° | 273.5 | 272.4 | 271.3 | 270.5 | 270.1 | 269.7 | 269.3 | 268.9 |
| 47.5° | 253.0 | 251.8 | 250.6 | 249.7 | 249.2 | 248.6 | 248.0 | 247.4 |
| 50° | 239.8 | 238.3 | 236.9 | 236.0 | 235.5 | 235.0 | 234.5 | 234.0 |
| 52.5° | 226.1 | 224.9 | 223.7 | 222.8 | 222.1 | 221.5 | 220.8 | 220.1 |
| 55° | 205.6 | 204.4 | 203.2 | 202.4 | 201.9 | 201.3 | 200.8 | 200.3 |
| 57.5° | 184.4 | 183.2 | 182.0 | 181.2 | 180.9 | 180.5 | 180.1 | 179.7 |
| 60° | 170.4 | 169.3 | 168.2 | 167.5 | 167.2 | 166.9 | 166.6 | 166.3 |
| 62.5° | 157.1 | 156.1 | 155.1 | 154.4 | 154.0 | 153.6 | 153.2 | 152.8 |
| 65° | 136.7 | 135.8 | 134.9 | 134.2 | 133.7 | 133.2 | 132.7 | 132.2 |
| 67.5° | 116.6 | 115.9 | 115.2 | 114.6 | 114.2 | 113.8 | 113.4 | 113.0 |
| 70° | 103.5 | 102.8 | 102.1 | 101.6 | 101.2 | 100.7 | 100.3 | 99.9 |
| 72.5° | 91.2 | 90.5 | 89.8 | 89.2 | 88.9 | 88.6 | 88.3 | 87.9 |
| 75° | 71.9 | 71.3 | 70.7 | 70.5 | 70.7 | 70.9 | 71.1 | 71.3 |
| 77.5° | 54.7 | 54.4 | 54.1 | 53.8 | 53.5 | 53.3 | 53.0 | 52.7 |
| 80° | 43.5 | 43.2 | 42.9 | 42.6 | 42.4 | 42.2 | 42.0 | 41.8 |
| 82.5° | 32.4 | 32.0 | 31.6 | 31.4 | 31.4 | 31.3 | 31.3 | 31.3 |
| 85° | 17.1 | 16.8 | 16.5 | 16.3 | 16.2 | 16.1 | 16.0 | 15.9 |
| 87.5° | 8.3 | 7.8 | 7.8 | 7.7 | 7.6 | 7.6 | 7.5 | 7.4 |
| 90° | 18.2 | 17.1 | 18.2 | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 |
| 92.5° | 49.7 | 42.7 | 37.9 | 34.3 | 33.9 | 32.1 | 32.5 | 31.6 |
| 95° | 149.4 | 114.6 | 90.7 | 78.1 | 70.7 | 66.2 | 64.4 | 65.0 |
| 97.5° | 348.7 | 285.3 | 223.6 | 182.4 | 155.1 | 141.1 | 132.8 | 128.0 |
| 100° | 520.7 | 450.0 | 371.8 | 302.8 | 255.5 | 231.0 | 214.4 | 204.2 |
| 102.5° | 633.4 | 617.4 | 560.3 | 487.1 | 435.7 | 393.8 | 373.2 | 359.3 |
| 105° | 692.9 | 757.3 | 764.8 | 745.9 | 710.6 | 675.2 | 650.7 | 642.7 |
| 107.5° | 650.0 | 747.1 | 806.4 | 834.0 | 838.4 | 836.5 | 831.6 | 821.0 |
| 110° | 613.1 | 715.1 | 788.1 | 834.9 | 859.4 | 870.3 | 875.4 | 874.8 |



TEST NUMBER: P331257

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 579.3 | 677.3 | 755.3 | 808.9 | 843.0 | 861.1 | 870.8 | 873.9 |
| 115° | 537.8 | 625.6 | 700.3 | 759.1 | 799.5 | 825.8 | 840.6 | 845.7 |
| 117.5° | 506.5 | 583.6 | 651.4 | 706.5 | 747.8 | 775.5 | 791.1 | 795.4 |
| 120° | 491.0 | 561.7 | 622.2 | 674.1 | 714.0 | 740.8 | 757.3 | 763.0 |
| 122.5° | 478.7 | 543.5 | 600.7 | 647.6 | 683.4 | 709.8 | 724.5 | 729.3 |
| 125° | 460.8 | 519.5 | 569.7 | 612.5 | 645.6 | 667.2 | 681.5 | 686.1 |
| 127.5° | 443.1 | 496.3 | 543.6 | 583.1 | 611.9 | 632.2 | 644.5 | 648.2 |
| 130° | 431.7 | 480.8 | 525.8 | 563.4 | 591.4 | 610.8 | 622.2 | 626.7 |
| 132.5° | 420.8 | 466.2 | 507.6 | 542.9 | 570.4 | 589.8 | 600.3 | 604.4 |
| 135° | 405.5 | 443.1 | 480.8 | 512.7 | 537.2 | 556.0 | 566.3 | 568.6 |
| 137.5° | 393.3 | 424.8 | 454.6 | 482.5 | 504.8 | 521.0 | 530.0 | 533.4 |
| 140° | 385.5 | 412.9 | 439.1 | 464.2 | 482.5 | 497.3 | 505.8 | 509.3 |
| 142.5° | 379.1 | 402.4 | 425.0 | 446.0 | 463.3 | 476.8 | 484.4 | 485.1 |
| 145° | 370.1 | 388.9 | 406.6 | 423.2 | 436.8 | 446.5 | 452.2 | 453.9 |
| 147.5° | 363.2 | 378.0 | 391.8 | 403.9 | 415.2 | 422.9 | 426.8 | 427.8 |
| 150° | 358.1 | 370.7 | 382.7 | 392.9 | 401.5 | 408.3 | 411.7 | 412.3 |
| 152.5° | 353.1 | 364.8 | 374.9 | 383.8 | 390.5 | 396.5 | 399.0 | 399.1 |
| 155° | 346.2 | 355.3 | 363.8 | 370.1 | 376.4 | 380.4 | 382.7 | 381.5 |
| 157.5° | 338.1 | 345.7 | 352.9 | 357.8 | 362.2 | 365.6 | 366.6 | 366.6 |
| 160° | 333.0 | 339.3 | 345.6 | 349.6 | 353.6 | 356.4 | 357.0 | 357.0 |
| 162.5° | 328.0 | 333.4 | 338.8 | 341.8 | 345.8 | 347.8 | 348.3 | 347.9 |
| 165° | 320.5 | 324.5 | 328.5 | 330.8 | 333.0 | 335.3 | 335.3 | 334.8 |
| 167.5° | 313.3 | 316.4 | 319.1 | 321.2 | 322.2 | 323.5 | 323.4 | 322.7 |
| 170° | 309.7 | 311.4 | 313.7 | 314.8 | 315.4 | 317.1 | 316.5 | 315.4 |
| 172.5° | 305.6 | 306.8 | 308.6 | 309.3 | 309.9 | 310.7 | 310.1 | 309.4 |
| 175° | 301.1 | 301.7 | 302.3 | 302.8 | 302.8 | 303.4 | 302.8 | 301.7 |
| 177.5° | 297.9 | 297.9 | 298.4 | 298.4 | 298.4 | 298.4 | 297.9 | 297.0 |
| 180° | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 |

(END OF REPORT)