

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: P331333-830

Luminaire Tested: **S122DIP-S675D330U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331333-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S675D330U830-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3768.2 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: General Diffuse

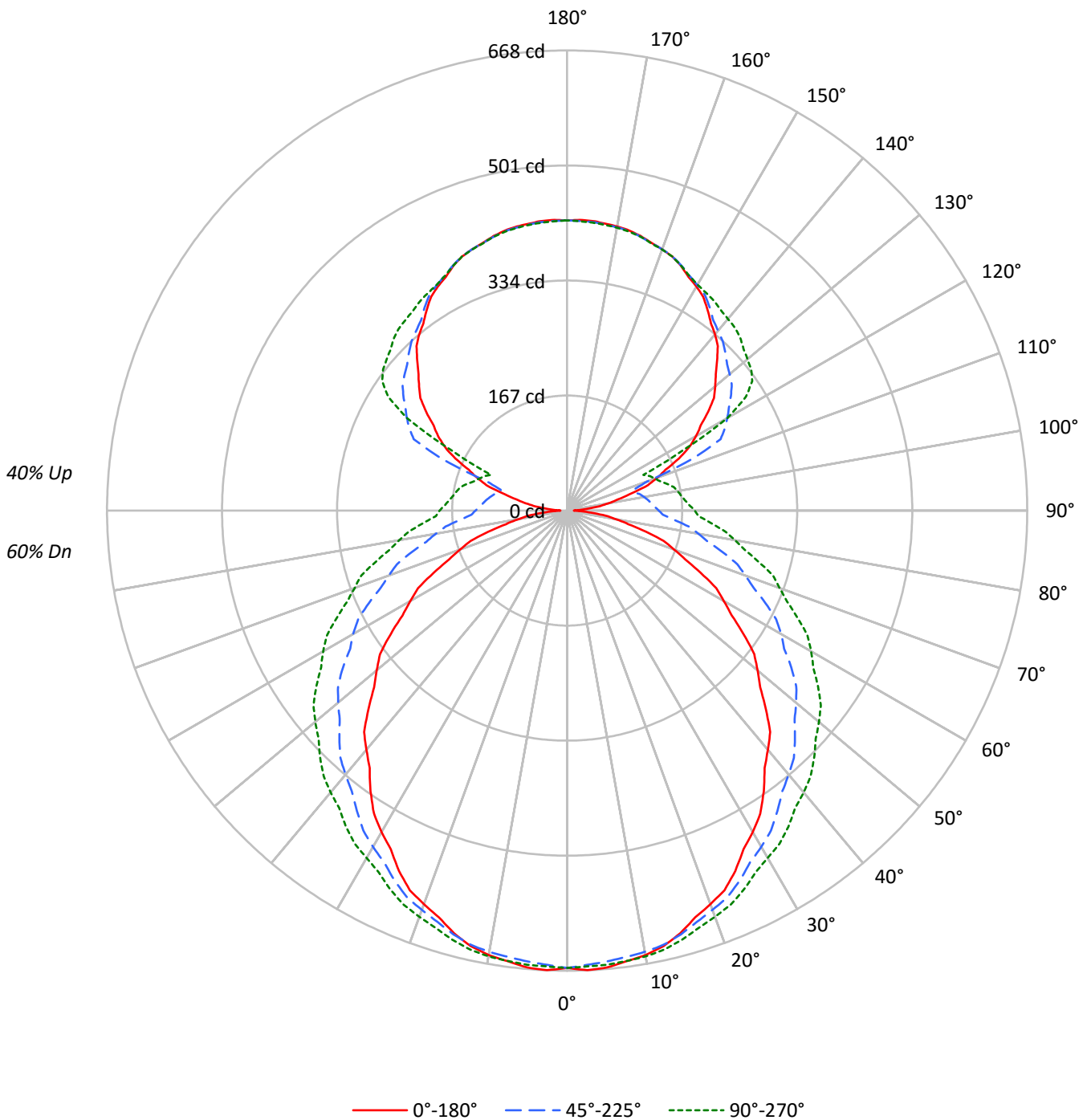
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331333-830

CATALOG NUMBER: S122DIP-S675D330U830-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331333-830

CATALOG NUMBER: S122DIP-S675D330U830-4F0-1E-UDD-D

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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 76 | 76 | 76 | 65 | 65 | 65 | 60 |
| 1 | 98 | 93 | 88 | 84 | 91 | 87 | 83 | 79 | 75 | 72 | 69 | 65 | 62 | 60 | 55 | 53 | 51 | 47 |
| 2 | 89 | 80 | 73 | 67 | 82 | 75 | 69 | 63 | 65 | 60 | 56 | 56 | 52 | 49 | 47 | 44 | 42 | 38 |
| 3 | 80 | 70 | 62 | 55 | 75 | 65 | 58 | 52 | 57 | 51 | 46 | 49 | 44 | 40 | 41 | 38 | 35 | 31 |
| 4 | 73 | 62 | 53 | 46 | 68 | 58 | 50 | 44 | 50 | 44 | 39 | 43 | 38 | 34 | 36 | 33 | 30 | 26 |
| 5 | 67 | 55 | 46 | 39 | 62 | 51 | 43 | 37 | 45 | 38 | 33 | 38 | 33 | 29 | 33 | 29 | 25 | 22 |
| 6 | 62 | 49 | 40 | 34 | 57 | 46 | 38 | 32 | 40 | 34 | 29 | 35 | 29 | 26 | 30 | 25 | 22 | 19 |
| 7 | 57 | 44 | 36 | 30 | 53 | 41 | 34 | 28 | 36 | 30 | 25 | 31 | 26 | 22 | 27 | 23 | 20 | 17 |
| 8 | 53 | 40 | 32 | 26 | 49 | 38 | 30 | 25 | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 17 | 15 |
| 9 | 49 | 36 | 29 | 23 | 46 | 34 | 27 | 22 | 30 | 24 | 20 | 26 | 21 | 18 | 23 | 19 | 16 | 14 |
| 10 | 46 | 33 | 26 | 21 | 43 | 32 | 25 | 20 | 28 | 22 | 18 | 24 | 20 | 16 | 21 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10719 | 10719 | 10719 |
| 5° | 10771 | 10318 | 10278 |
| 10° | 10704 | 10013 | 9900 |
| 15° | 10557 | 9691 | 9503 |
| 20° | 10370 | 9345 | 9120 |
| 25° | 10186 | 9011 | 8772 |
| 30° | 9928 | 8668 | 8421 |
| 35° | 9665 | 8338 | 8176 |
| 40° | 9388 | 8055 | 7929 |
| 45° | 9124 | 7803 | 7719 |
| 50° | 8843 | 7574 | 7511 |
| 55° | 8548 | 7331 | 7300 |
| 60° | 8188 | 7076 | 7078 |
| 65° | 7811 | 6777 | 6812 |
| 70° | 7390 | 6457 | 6525 |
| 75° | 6853 | 6143 | 6262 |
| 80° | 6004 | 5822 | 5995 |
| 85° | 5192 | 5544 | 5785 |



TEST NUMBER: P331333-830

CATALOG NUMBER: S122DIP-S675D330U830-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.9 | 1.7 |
| 10°-20° | 180.4 | 4.8 |
| 20°-30° | 273.4 | 7.3 |
| 30°-40° | 333.0 | 8.8 |
| 40°-50° | 358.2 | 9.5 |
| 50°-60° | 347.9 | 9.2 |
| 60°-70° | 303.7 | 8.1 |
| 70°-80° | 233.8 | 6.2 |
| 80°-90° | 158.0 | 4.2 |
| 90°-100° | 122.2 | 3.2 |
| 100°-110° | 130.5 | 3.5 |
| 110°-120° | 189.9 | 5.0 |
| 120°-130° | 256.4 | 6.8 |
| 130°-140° | 254.0 | 6.7 |
| 140°-150° | 226.8 | 6.0 |
| 150°-160° | 180.7 | 4.8 |
| 160°-170° | 116.4 | 3.1 |
| 170°-180° | 40.1 | 1.1 |
| 0°-30° | 516.7 | 13.7 |
| 0°-40° | 849.6 | 22.5 |
| 0°-60° | 1555.7 | 41.3 |
| 0°-90° | 2251.3 | 59.7 |
| 90°-120° | 442.5 | 11.7 |
| 90°-150° | 1179.7 | 31.3 |
| 90°-180° | 1517.0 | 40.3 |
| 0°-180° | 3768.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 664 | 664 | 664 | 664 | 664 | |
| 5° | 666 | 663 | 657 | 663 | 662 | 63 |
| 15° | 635 | 637 | 637 | 645 | 645 | 179 |
| 25° | 577 | 584 | 593 | 604 | 607 | 265 |
| 35° | 498 | 514 | 532 | 552 | 560 | 311 |
| 45° | 408 | 434 | 468 | 496 | 507 | 315 |
| 55° | 313 | 348 | 397 | 431 | 444 | 279 |
| 65° | 214 | 261 | 318 | 356 | 370 | 212 |
| 75° | 118 | 173 | 234 | 274 | 288 | 125 |
| 85° | 35 | 94 | 156 | 195 | 210 | 37 |
| 90° | 10 | 69 | 133 | 172 | 185 | 7 |
| 95° | 28 | 64 | 122 | 159 | 172 | 30 |
| 105° | 98 | 131 | 101 | 137 | 150 | 104 |
| 115° | 179 | 197 | 246 | 139 | 122 | 176 |
| 125° | 250 | 255 | 290 | 317 | 328 | 223 |
| 135° | 308 | 313 | 325 | 347 | 355 | 238 |
| 145° | 356 | 356 | 360 | 368 | 372 | 223 |
| 155° | 392 | 389 | 392 | 394 | 392 | 180 |
| 165° | 413 | 411 | 412 | 414 | 412 | 117 |
| 175° | 422 | 420 | 421 | 422 | 420 | 40 |
| 180° | 421 | 421 | 421 | 421 | 421 | |



TEST NUMBER: P331333-830

CATALOG NUMBER: S122DIP-S675D330U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 |
| 2.5° | 667.8 | 667.2 | 666.8 | 666.2 | 665.7 | 664.9 | 663.6 | 662.4 | 661.3 | 660.1 | 660.9 |
| 5° | 665.8 | 665.2 | 664.6 | 663.9 | 663.3 | 662.3 | 661.0 | 659.8 | 658.5 | 657.1 | 658.5 |
| 7.5° | 659.9 | 659.4 | 659.0 | 658.6 | 658.2 | 657.4 | 656.5 | 655.4 | 654.5 | 653.6 | 655.1 |
| 10° | 655.3 | 654.8 | 654.4 | 653.9 | 653.6 | 653.0 | 652.3 | 651.8 | 651.1 | 650.4 | 652.1 |
| 12.5° | 647.5 | 647.6 | 647.7 | 647.8 | 647.9 | 647.7 | 647.2 | 646.8 | 646.3 | 645.8 | 647.5 |
| 15° | 635.1 | 635.5 | 635.9 | 636.3 | 636.8 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 638.9 |
| 17.5° | 618.9 | 619.8 | 620.7 | 621.6 | 622.5 | 623.3 | 624.0 | 624.6 | 625.3 | 626.0 | 628.0 |
| 20° | 608.1 | 609.2 | 610.2 | 611.3 | 612.4 | 613.3 | 614.2 | 615.1 | 616.0 | 616.8 | 619.2 |
| 22.5° | 596.5 | 597.8 | 599.1 | 600.3 | 601.5 | 602.8 | 604.0 | 605.1 | 606.3 | 607.6 | 609.9 |
| 25° | 577.3 | 578.8 | 580.3 | 581.8 | 583.3 | 585.0 | 586.9 | 588.9 | 590.8 | 592.7 | 595.3 |
| 27.5° | 554.2 | 556.7 | 559.1 | 561.6 | 564.0 | 566.4 | 568.6 | 570.9 | 573.2 | 575.4 | 578.6 |
| 30° | 538.9 | 541.6 | 544.4 | 547.1 | 550.0 | 552.7 | 555.5 | 558.3 | 561.1 | 563.8 | 567.2 |
| 32.5° | 521.9 | 525.0 | 528.1 | 531.2 | 534.4 | 537.6 | 540.9 | 544.1 | 547.4 | 550.7 | 554.7 |
| 35° | 497.5 | 501.1 | 504.7 | 508.3 | 512.0 | 515.9 | 519.9 | 524.0 | 528.0 | 532.1 | 536.8 |
| 37.5° | 470.9 | 475.1 | 479.3 | 483.4 | 487.7 | 492.4 | 497.7 | 502.9 | 508.1 | 513.4 | 518.7 |
| 40° | 453.2 | 457.9 | 462.6 | 467.3 | 472.0 | 477.2 | 483.1 | 488.8 | 494.6 | 500.3 | 505.9 |
| 42.5° | 436.3 | 440.9 | 445.6 | 450.3 | 455.1 | 460.7 | 467.4 | 474.0 | 480.6 | 487.3 | 493.3 |
| 45° | 407.9 | 413.8 | 419.5 | 425.3 | 431.0 | 437.7 | 445.2 | 452.7 | 460.1 | 467.6 | 474.3 |
| 47.5° | 380.0 | 386.3 | 392.7 | 398.9 | 405.2 | 412.7 | 421.5 | 430.3 | 439.0 | 447.8 | 454.8 |
| 50° | 360.8 | 367.5 | 374.1 | 380.7 | 387.3 | 395.5 | 405.1 | 414.7 | 424.3 | 433.9 | 441.2 |
| 52.5° | 342.3 | 349.3 | 356.3 | 363.3 | 370.2 | 378.8 | 388.9 | 399.1 | 409.2 | 419.3 | 426.8 |
| 55° | 312.7 | 320.4 | 328.1 | 335.8 | 343.5 | 352.9 | 364.0 | 375.1 | 386.3 | 397.4 | 405.1 |
| 57.5° | 283.4 | 292.2 | 300.9 | 309.5 | 318.2 | 328.2 | 339.5 | 350.8 | 362.2 | 373.5 | 381.8 |
| 60° | 262.7 | 271.8 | 281.1 | 290.3 | 299.4 | 310.2 | 322.3 | 334.5 | 346.7 | 358.9 | 367.0 |
| 62.5° | 244.2 | 253.7 | 263.3 | 272.8 | 282.4 | 293.2 | 305.4 | 317.5 | 329.8 | 342.0 | 350.6 |
| 65° | 213.6 | 224.0 | 234.6 | 245.1 | 255.5 | 267.0 | 279.7 | 292.3 | 304.9 | 317.5 | 326.3 |
| 67.5° | 185.5 | 196.4 | 207.5 | 218.4 | 229.3 | 241.2 | 254.1 | 267.0 | 279.9 | 292.8 | 301.7 |
| 70° | 165.5 | 176.6 | 187.8 | 198.9 | 210.0 | 222.2 | 235.4 | 248.6 | 261.9 | 275.2 | 284.4 |
| 72.5° | 147.0 | 158.4 | 169.9 | 181.4 | 192.8 | 205.3 | 218.8 | 232.1 | 245.6 | 259.0 | 268.1 |
| 75° | 118.4 | 130.4 | 142.3 | 154.3 | 166.3 | 179.1 | 192.7 | 206.4 | 220.1 | 233.8 | 243.0 |
| 77.5° | 90.7 | 103.2 | 115.7 | 128.2 | 140.7 | 154.0 | 167.9 | 181.8 | 195.7 | 209.5 | 218.8 |
| 80° | 72.2 | 85.2 | 98.2 | 111.3 | 124.3 | 137.8 | 151.7 | 165.6 | 179.5 | 193.4 | 202.4 |
| 82.5° | 56.7 | 69.7 | 82.5 | 95.4 | 108.3 | 121.7 | 135.8 | 149.9 | 163.9 | 178.0 | 187.0 |
| 85° | 34.7 | 47.9 | 61.2 | 74.4 | 87.7 | 101.1 | 114.8 | 128.5 | 142.2 | 155.9 | 164.9 |
| 87.5° | 18.9 | 31.9 | 44.7 | 57.6 | 70.5 | 83.8 | 97.6 | 111.4 | 125.2 | 139.0 | 147.8 |
| 90° | 9.9 | 23.1 | 36.2 | 49.4 | 62.5 | 76.2 | 90.4 | 104.6 | 118.9 | 133.1 | 142.0 |
| 92.5° | 15.0 | 26.5 | 38.0 | 49.5 | 60.9 | 73.4 | 86.8 | 100.3 | 113.7 | 127.1 | 135.7 |
| 95° | 27.5 | 35.3 | 43.2 | 51.0 | 58.7 | 69.4 | 82.7 | 96.0 | 109.2 | 122.5 | 131.0 |
| 97.5° | 46.1 | 48.7 | 51.4 | 54.0 | 56.6 | 64.7 | 78.0 | 91.4 | 104.9 | 118.3 | 126.5 |
| 100° | 60.7 | 59.3 | 58.0 | 56.6 | 55.2 | 61.1 | 74.2 | 87.4 | 100.5 | 113.6 | 122.1 |
| 102.5° | 76.0 | 81.2 | 86.5 | 91.8 | 97.1 | 100.7 | 102.6 | 104.7 | 106.7 | 108.7 | 117.2 |
| 105° | 97.5 | 105.7 | 114.0 | 122.2 | 130.4 | 130.8 | 123.5 | 116.1 | 108.7 | 101.3 | 109.5 |
| 107.5° | 123.0 | 129.6 | 136.2 | 142.9 | 149.5 | 146.9 | 135.4 | 123.9 | 112.4 | 100.9 | 107.4 |
| 110° | 138.8 | 144.6 | 150.2 | 156.0 | 161.6 | 159.9 | 150.9 | 141.8 | 132.7 | 123.6 | 123.7 |



TEST NUMBER: P331333-830

CATALOG NUMBER: S122DIP-S675D330U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 154.5 | 159.3 | 164.2 | 169.0 | 173.9 | 178.9 | 184.0 | 189.1 | 194.3 | 199.3 | 181.5 |
| 115° | 179.1 | 182.6 | 186.1 | 189.5 | 193.1 | 200.5 | 211.8 | 223.1 | 234.4 | 245.7 | 220.8 |
| 117.5° | 200.1 | 202.9 | 205.8 | 208.6 | 211.4 | 217.9 | 227.9 | 238.0 | 248.1 | 258.1 | 256.8 |
| 120° | 216.2 | 218.1 | 220.0 | 221.8 | 223.7 | 229.5 | 239.3 | 249.0 | 258.8 | 268.6 | 275.4 |
| 122.5° | 229.9 | 231.3 | 232.7 | 234.1 | 235.5 | 240.9 | 250.2 | 259.7 | 269.0 | 278.3 | 284.6 |
| 125° | 249.7 | 250.5 | 251.5 | 252.3 | 253.2 | 257.7 | 265.8 | 274.0 | 282.1 | 290.2 | 296.5 |
| 127.5° | 268.5 | 269.3 | 270.0 | 270.8 | 271.5 | 275.2 | 281.6 | 288.1 | 294.6 | 301.1 | 307.1 |
| 130° | 280.5 | 281.3 | 282.2 | 283.0 | 284.0 | 287.0 | 292.2 | 297.5 | 302.7 | 307.9 | 313.8 |
| 132.5° | 292.7 | 293.3 | 294.1 | 294.7 | 295.5 | 297.9 | 302.2 | 306.3 | 310.6 | 314.8 | 320.4 |
| 135° | 307.6 | 308.6 | 309.7 | 310.8 | 311.9 | 313.8 | 316.5 | 319.3 | 322.1 | 324.8 | 330.0 |
| 137.5° | 323.6 | 324.3 | 325.0 | 325.7 | 326.4 | 327.6 | 329.2 | 330.8 | 332.5 | 334.1 | 338.7 |
| 140° | 334.0 | 334.4 | 334.7 | 335.1 | 335.4 | 336.1 | 337.3 | 338.5 | 339.6 | 340.8 | 344.9 |
| 142.5° | 342.8 | 343.1 | 343.4 | 343.7 | 343.9 | 344.5 | 345.4 | 346.4 | 347.3 | 348.3 | 351.6 |
| 145° | 355.6 | 355.6 | 355.5 | 355.4 | 355.3 | 355.9 | 357.0 | 358.3 | 359.4 | 360.5 | 362.3 |
| 147.5° | 367.7 | 367.4 | 367.1 | 366.8 | 366.6 | 367.0 | 368.2 | 369.4 | 370.5 | 371.6 | 372.1 |
| 150° | 375.4 | 374.9 | 374.5 | 374.0 | 373.5 | 373.9 | 374.9 | 376.1 | 377.1 | 378.2 | 378.6 |
| 152.5° | 382.0 | 381.5 | 381.0 | 380.4 | 379.9 | 380.1 | 381.2 | 382.2 | 383.2 | 384.3 | 384.7 |
| 155° | 391.6 | 391.0 | 390.4 | 389.7 | 389.2 | 389.3 | 390.1 | 390.9 | 391.7 | 392.5 | 392.9 |
| 157.5° | 399.1 | 398.6 | 398.0 | 397.6 | 397.0 | 397.1 | 397.7 | 398.2 | 398.8 | 399.4 | 399.8 |
| 160° | 403.5 | 403.1 | 402.7 | 402.3 | 401.9 | 401.9 | 402.3 | 402.7 | 403.1 | 403.5 | 403.9 |
| 162.5° | 407.4 | 407.0 | 406.6 | 406.1 | 405.8 | 405.8 | 406.0 | 406.4 | 406.8 | 407.2 | 407.6 |
| 165° | 412.6 | 412.3 | 411.8 | 411.4 | 411.0 | 410.9 | 411.1 | 411.3 | 411.5 | 411.7 | 412.2 |
| 167.5° | 416.5 | 416.1 | 415.8 | 415.3 | 414.9 | 414.8 | 415.0 | 415.2 | 415.4 | 415.6 | 416.0 |
| 170° | 418.8 | 418.3 | 417.9 | 417.5 | 417.1 | 417.0 | 417.1 | 417.3 | 417.4 | 417.5 | 418.0 |
| 172.5° | 420.2 | 419.8 | 419.3 | 419.0 | 418.6 | 418.4 | 418.6 | 418.7 | 418.9 | 419.0 | 419.4 |
| 175° | 422.1 | 421.6 | 421.1 | 420.7 | 420.2 | 420.0 | 420.2 | 420.3 | 420.5 | 420.6 | 421.0 |
| 177.5° | 422.4 | 422.0 | 421.6 | 421.2 | 420.8 | 420.8 | 420.8 | 420.8 | 420.8 | 420.9 | 421.3 |
| 180° | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 |



TEST NUMBER: P331333-830

CATALOG NUMBER: S122DIP-S675D330U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 |
| 2.5° | 661.8 | 662.6 | 663.5 | 663.7 | 663.4 | 663.1 | 662.7 | 662.4 |
| 5° | 659.8 | 661.0 | 662.3 | 662.9 | 662.6 | 662.4 | 662.2 | 661.9 |
| 7.5° | 656.6 | 658.2 | 659.7 | 660.3 | 660.2 | 659.9 | 659.7 | 659.5 |
| 10° | 653.8 | 655.5 | 657.3 | 658.0 | 657.8 | 657.6 | 657.4 | 657.1 |
| 12.5° | 649.2 | 650.9 | 652.7 | 653.4 | 653.2 | 653.0 | 652.8 | 652.5 |
| 15° | 640.8 | 642.7 | 644.7 | 645.5 | 645.4 | 645.1 | 644.9 | 644.7 |
| 17.5° | 630.0 | 632.1 | 634.0 | 635.1 | 635.1 | 635.1 | 635.1 | 635.1 |
| 20° | 621.5 | 623.9 | 626.1 | 627.4 | 627.4 | 627.4 | 627.4 | 627.4 |
| 22.5° | 612.3 | 614.6 | 616.9 | 618.3 | 618.6 | 619.0 | 619.3 | 619.6 |
| 25° | 597.9 | 600.4 | 602.9 | 604.5 | 605.2 | 605.9 | 606.5 | 607.2 |
| 27.5° | 581.9 | 585.1 | 588.4 | 590.2 | 590.7 | 591.2 | 591.6 | 592.1 |
| 30° | 570.7 | 574.1 | 577.5 | 579.6 | 580.2 | 580.9 | 581.5 | 582.1 |
| 32.5° | 558.6 | 562.6 | 566.5 | 569.0 | 570.2 | 571.4 | 572.5 | 573.6 |
| 35° | 541.5 | 546.2 | 550.9 | 554.0 | 555.5 | 557.0 | 558.5 | 560.0 |
| 37.5° | 523.9 | 529.0 | 534.3 | 537.7 | 539.3 | 540.8 | 542.4 | 544.0 |
| 40° | 511.4 | 517.0 | 522.5 | 526.3 | 528.2 | 530.2 | 532.1 | 534.0 |
| 42.5° | 499.4 | 505.5 | 511.5 | 515.6 | 517.5 | 519.4 | 521.3 | 523.2 |
| 45° | 480.9 | 487.5 | 494.2 | 498.5 | 500.7 | 502.8 | 504.9 | 507.1 |
| 47.5° | 461.7 | 468.6 | 475.5 | 480.1 | 482.5 | 484.8 | 487.2 | 489.6 |
| 50° | 448.5 | 455.7 | 463.1 | 467.9 | 470.2 | 472.6 | 474.9 | 477.2 |
| 52.5° | 434.2 | 441.7 | 449.1 | 454.1 | 456.6 | 459.1 | 461.7 | 464.2 |
| 55° | 412.7 | 420.5 | 428.2 | 433.4 | 436.2 | 438.9 | 441.8 | 444.5 |
| 57.5° | 390.1 | 398.4 | 406.7 | 412.3 | 415.1 | 417.9 | 420.8 | 423.6 |
| 60° | 375.1 | 383.2 | 391.4 | 397.0 | 399.9 | 402.9 | 406.0 | 409.0 |
| 62.5° | 359.2 | 367.9 | 376.5 | 382.3 | 385.0 | 387.9 | 390.7 | 393.5 |
| 65° | 335.1 | 343.8 | 352.6 | 358.4 | 361.2 | 363.9 | 366.7 | 369.5 |
| 67.5° | 310.6 | 319.4 | 328.3 | 334.2 | 337.1 | 340.0 | 342.9 | 345.8 |
| 70° | 293.6 | 302.7 | 312.0 | 317.8 | 320.4 | 323.0 | 325.6 | 328.1 |
| 72.5° | 277.1 | 286.1 | 295.1 | 301.1 | 304.3 | 307.4 | 310.4 | 313.5 |
| 75° | 252.2 | 261.4 | 270.6 | 276.5 | 279.4 | 282.1 | 284.9 | 287.7 |
| 77.5° | 227.9 | 237.0 | 246.2 | 252.2 | 255.2 | 258.3 | 261.2 | 264.2 |
| 80° | 211.3 | 220.4 | 229.3 | 235.4 | 238.3 | 241.3 | 244.3 | 247.3 |
| 82.5° | 196.0 | 204.9 | 214.0 | 219.8 | 222.6 | 225.5 | 228.3 | 231.1 |
| 85° | 173.8 | 182.9 | 191.8 | 197.7 | 200.8 | 203.8 | 206.8 | 209.7 |
| 87.5° | 156.6 | 165.4 | 174.2 | 179.9 | 182.8 | 185.5 | 188.2 | 191.0 |
| 90° | 150.9 | 159.8 | 168.7 | 174.5 | 177.2 | 179.8 | 182.6 | 185.3 |
| 92.5° | 144.3 | 152.8 | 161.4 | 167.0 | 169.7 | 172.3 | 174.9 | 177.6 |
| 95° | 139.5 | 147.9 | 156.4 | 161.8 | 164.4 | 166.8 | 169.4 | 171.8 |
| 97.5° | 134.7 | 142.8 | 151.0 | 156.4 | 159.0 | 161.6 | 164.2 | 166.8 |
| 100° | 130.5 | 138.9 | 147.4 | 152.9 | 155.3 | 157.9 | 160.3 | 162.8 |
| 102.5° | 125.5 | 134.0 | 142.5 | 148.0 | 150.5 | 153.1 | 155.6 | 158.2 |
| 105° | 117.8 | 126.0 | 134.2 | 139.7 | 142.3 | 145.0 | 147.5 | 150.1 |
| 107.5° | 113.8 | 120.2 | 126.6 | 131.1 | 133.7 | 136.4 | 139.0 | 141.6 |
| 110° | 123.8 | 123.8 | 123.9 | 125.2 | 127.8 | 130.4 | 133.1 | 135.7 |



TEST NUMBER: P331333-830

CATALOG NUMBER: S122DIP-S675D330U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 163.6 | 145.8 | 127.9 | 120.3 | 122.8 | 125.5 | 128.0 | 130.5 |
| 115° | 195.9 | 171.0 | 146.0 | 132.2 | 129.8 | 127.2 | 124.7 | 122.2 |
| 117.5° | 255.6 | 254.3 | 253.1 | 245.5 | 231.7 | 217.8 | 204.0 | 190.2 |
| 120° | 282.2 | 289.0 | 295.8 | 295.8 | 289.0 | 282.2 | 275.4 | 268.6 |
| 122.5° | 291.0 | 297.3 | 303.6 | 306.9 | 307.1 | 307.4 | 307.6 | 307.8 |
| 125° | 302.7 | 309.0 | 315.2 | 319.4 | 321.5 | 323.7 | 325.7 | 327.9 |
| 127.5° | 313.1 | 319.1 | 325.1 | 329.0 | 330.9 | 332.9 | 334.8 | 336.7 |
| 130° | 319.7 | 325.6 | 331.5 | 335.2 | 336.9 | 338.5 | 340.2 | 341.8 |
| 132.5° | 325.9 | 331.6 | 337.1 | 340.8 | 342.4 | 344.0 | 345.7 | 347.3 |
| 135° | 335.1 | 340.3 | 345.4 | 348.8 | 350.4 | 351.9 | 353.5 | 355.2 |
| 137.5° | 343.4 | 347.9 | 352.5 | 355.4 | 356.7 | 357.9 | 359.1 | 360.3 |
| 140° | 348.8 | 352.9 | 356.9 | 359.4 | 360.3 | 361.3 | 362.2 | 363.2 |
| 142.5° | 354.9 | 358.2 | 361.5 | 363.4 | 364.3 | 365.0 | 365.8 | 366.6 |
| 145° | 364.0 | 365.8 | 367.6 | 368.8 | 369.5 | 370.2 | 371.0 | 371.7 |
| 147.5° | 372.7 | 373.2 | 373.7 | 374.1 | 374.3 | 374.6 | 374.8 | 375.0 |
| 150° | 379.0 | 379.4 | 379.8 | 379.8 | 379.6 | 379.2 | 378.8 | 378.5 |
| 152.5° | 385.1 | 385.5 | 385.9 | 385.9 | 385.4 | 385.0 | 384.6 | 384.1 |
| 155° | 393.3 | 393.7 | 394.2 | 394.1 | 393.5 | 393.0 | 392.5 | 391.9 |
| 157.5° | 400.3 | 400.8 | 401.1 | 401.1 | 400.6 | 400.1 | 399.5 | 399.1 |
| 160° | 404.4 | 404.7 | 405.1 | 405.1 | 404.6 | 404.2 | 403.7 | 403.2 |
| 162.5° | 408.0 | 408.5 | 409.0 | 409.0 | 408.3 | 407.7 | 407.2 | 406.6 |
| 165° | 412.6 | 413.1 | 413.6 | 413.6 | 413.1 | 412.6 | 412.2 | 411.7 |
| 167.5° | 416.5 | 417.0 | 417.5 | 417.4 | 416.8 | 416.1 | 415.6 | 414.9 |
| 170° | 418.5 | 419.0 | 419.4 | 419.3 | 418.8 | 418.1 | 417.5 | 416.9 |
| 172.5° | 419.9 | 420.4 | 420.8 | 420.8 | 420.2 | 419.6 | 419.0 | 418.4 |
| 175° | 421.5 | 422.0 | 422.4 | 422.4 | 421.7 | 421.0 | 420.3 | 419.6 |
| 177.5° | 421.7 | 422.1 | 422.4 | 422.4 | 421.9 | 421.4 | 420.9 | 420.5 |
| 180° | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 | 421.1 |

(END OF REPORT)