

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: P331261-930

Luminaire Tested: **S122DIP-S290D725U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331261-930
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-S290D725U930-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3339.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

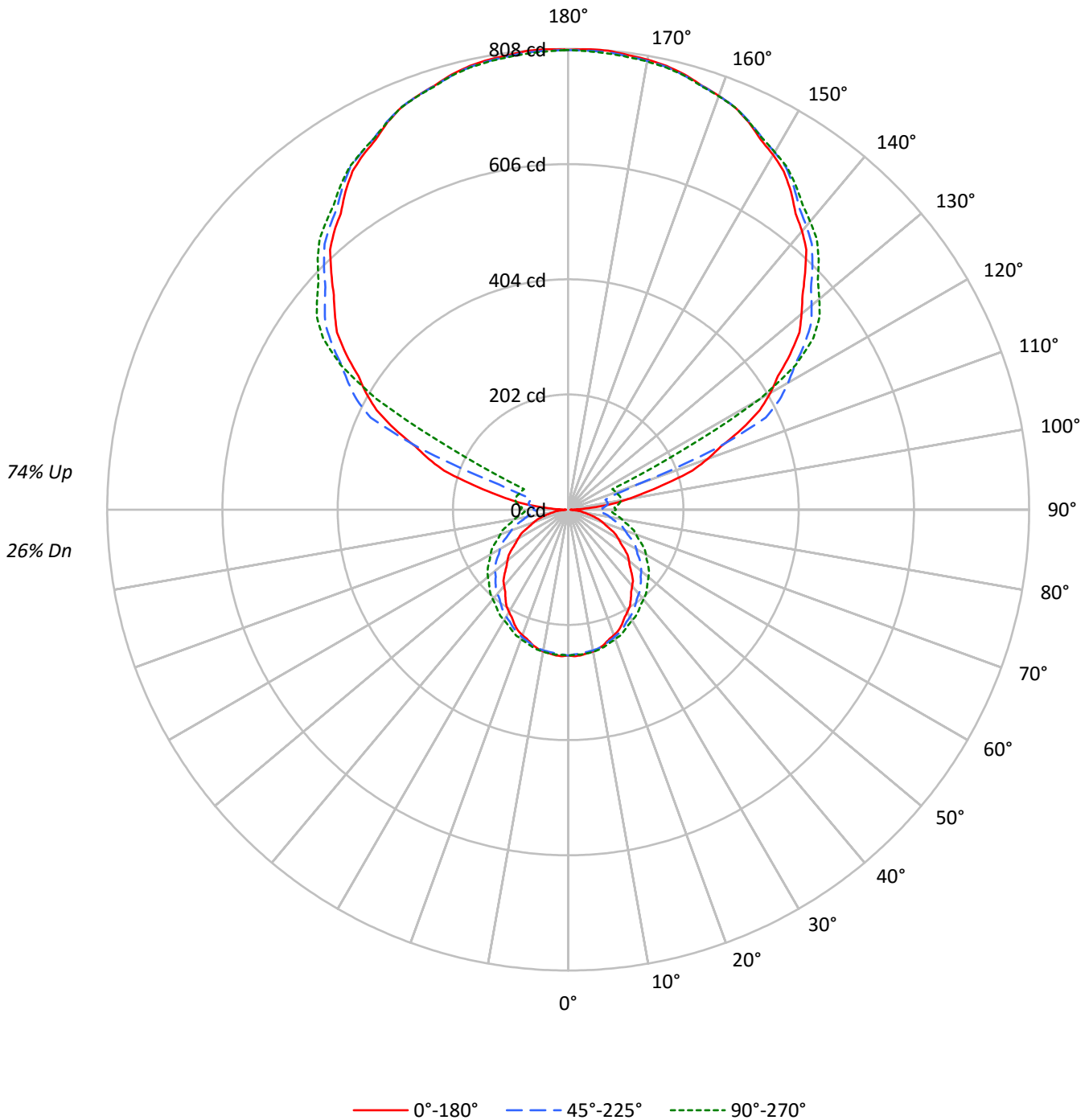
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331261-930

CATALOG NUMBER: S122DIP-S290D725U930-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331261-930

CATALOG NUMBER: S122DIP-S290D725U930-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 | | | | |
| 1 | 92 | 87 | 83 | 79 | 81 | 78 | 74 | 71 | 60 | 58 | 56 | 44 | 42 | 41 | 29 | 28 | 27 | 20 | | | | |
| 2 | 83 | 76 | 69 | 64 | 74 | 67 | 62 | 58 | 52 | 48 | 45 | 38 | 36 | 34 | 25 | 23 | 22 | 16 | | | | |
| 3 | 76 | 66 | 59 | 53 | 67 | 59 | 53 | 48 | 46 | 41 | 38 | 33 | 30 | 28 | 22 | 20 | 19 | 13 | | | | |
| 4 | 69 | 58 | 50 | 44 | 61 | 52 | 45 | 40 | 40 | 36 | 32 | 29 | 26 | 24 | 19 | 17 | 16 | 11 | | | | |
| 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 | 13 | 12 | 8 | | | | |
| 7 | 53 | 41 | 34 | 28 | 47 | 37 | 30 | 25 | 29 | 24 | 20 | 21 | 18 | 15 | 14 | 12 | 10 | 7 | | | | |
| 8 | 49 | 37 | 30 | 25 | 44 | 33 | 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 | 17 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9 | 7 | 5 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4127 | 4127 | 4127 |
| 5° | 4146 | 3973 | 3957 |
| 10° | 4121 | 3855 | 3812 |
| 15° | 4063 | 3730 | 3659 |
| 20° | 3992 | 3597 | 3511 |
| 25° | 3922 | 3468 | 3376 |
| 30° | 3821 | 3336 | 3241 |
| 35° | 3720 | 3209 | 3148 |
| 40° | 3615 | 3101 | 3051 |
| 45° | 3512 | 3004 | 2971 |
| 50° | 3404 | 2917 | 2891 |
| 55° | 3289 | 2822 | 2810 |
| 60° | 3151 | 2723 | 2724 |
| 65° | 3006 | 2608 | 2622 |
| 70° | 2844 | 2485 | 2512 |
| 75° | 2639 | 2365 | 2410 |
| 80° | 2312 | 2240 | 2305 |
| 85° | 2005 | 2134 | 2226 |



TEST NUMBER: P331261-930

CATALOG NUMBER: S122DIP-S290D725U930-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.2 | 0.7 |
| 10°-20° | 69.4 | 2.1 |
| 20°-30° | 105.2 | 3.2 |
| 30°-40° | 128.2 | 3.8 |
| 40°-50° | 137.9 | 4.1 |
| 50°-60° | 133.9 | 4.0 |
| 60°-70° | 116.9 | 3.5 |
| 70°-80° | 90.0 | 2.7 |
| 80°-90° | 62.4 | 1.9 |
| 90°-100° | 68.5 | 2.1 |
| 100°-110° | 129.0 | 3.9 |
| 110°-120° | 283.6 | 8.5 |
| 120°-130° | 446.2 | 13.4 |
| 130°-140° | 467.4 | 14.0 |
| 140°-150° | 430.8 | 12.9 |
| 150°-160° | 345.7 | 10.4 |
| 160°-170° | 222.8 | 6.7 |
| 170°-180° | 76.7 | 2.3 |
| 0°-30° | 198.9 | 6.0 |
| 0°-40° | 327.1 | 9.8 |
| 0°-60° | 598.8 | 17.9 |
| 0°-90° | 868.2 | 26.0 |
| 90°-120° | 481.1 | 14.4 |
| 90°-150° | 1825.6 | 54.7 |
| 90°-180° | 2471.0 | 74.0 |
| 0°-180° | 3339.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 256 | 256 | 256 | 256 | 256 | |
| 5° | 256 | 255 | 253 | 255 | 255 | 24 |
| 15° | 244 | 245 | 245 | 248 | 248 | 69 |
| 25° | 222 | 225 | 228 | 232 | 234 | 102 |
| 35° | 192 | 198 | 205 | 213 | 216 | 120 |
| 45° | 157 | 167 | 180 | 191 | 195 | 121 |
| 55° | 120 | 134 | 153 | 166 | 171 | 108 |
| 65° | 82 | 101 | 122 | 137 | 142 | 82 |
| 75° | 46 | 66 | 90 | 105 | 111 | 48 |
| 85° | 13 | 36 | 60 | 75 | 81 | 14 |
| 90° | 4 | 32 | 61 | 78 | 84 | 4 |
| 95° | 41 | 41 | 65 | 82 | 86 | 49 |
| 105° | 179 | 198 | 67 | 86 | 93 | 192 |
| 115° | 337 | 352 | 382 | 135 | 85 | 331 |
| 125° | 475 | 483 | 505 | 519 | 525 | 423 |
| 135° | 587 | 596 | 605 | 618 | 621 | 453 |
| 145° | 681 | 681 | 690 | 696 | 695 | 426 |
| 155° | 749 | 745 | 751 | 754 | 750 | 345 |
| 165° | 790 | 786 | 788 | 792 | 788 | 223 |
| 175° | 808 | 804 | 805 | 808 | 803 | 77 |
| 180° | 806 | 806 | 806 | 806 | 806 | |



TEST NUMBER: P331261-930

CATALOG NUMBER: S122DIP-S290D725U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 |
| 2.5° | 257.1 | 256.8 | 256.7 | 256.4 | 256.2 | 255.9 | 255.4 | 255.0 | 254.5 | 254.0 | 254.4 |
| 5° | 256.3 | 256.1 | 255.8 | 255.6 | 255.3 | 254.9 | 254.5 | 254.0 | 253.5 | 253.0 | 253.5 |
| 7.5° | 254.0 | 253.8 | 253.6 | 253.5 | 253.3 | 253.1 | 252.7 | 252.3 | 251.9 | 251.5 | 252.2 |
| 10° | 252.3 | 252.1 | 251.9 | 251.8 | 251.6 | 251.4 | 251.1 | 250.9 | 250.6 | 250.4 | 251.0 |
| 12.5° | 249.2 | 249.3 | 249.3 | 249.4 | 249.4 | 249.3 | 249.2 | 249.0 | 248.7 | 248.6 | 249.2 |
| 15° | 244.4 | 244.6 | 244.8 | 244.9 | 245.1 | 245.2 | 245.2 | 245.2 | 245.2 | 245.2 | 245.9 |
| 17.5° | 238.2 | 238.6 | 238.9 | 239.3 | 239.6 | 239.9 | 240.2 | 240.4 | 240.7 | 241.0 | 241.7 |
| 20° | 234.1 | 234.5 | 234.9 | 235.3 | 235.7 | 236.1 | 236.4 | 236.8 | 237.1 | 237.4 | 238.3 |
| 22.5° | 229.7 | 230.1 | 230.6 | 231.1 | 231.5 | 232.0 | 232.4 | 232.9 | 233.4 | 233.8 | 234.7 |
| 25° | 222.3 | 222.8 | 223.4 | 224.0 | 224.5 | 225.2 | 225.9 | 226.7 | 227.4 | 228.1 | 229.1 |
| 27.5° | 213.4 | 214.3 | 215.2 | 216.1 | 217.1 | 218.0 | 218.8 | 219.7 | 220.6 | 221.5 | 222.7 |
| 30° | 207.4 | 208.5 | 209.5 | 210.6 | 211.7 | 212.8 | 213.9 | 214.9 | 216.0 | 217.0 | 218.3 |
| 32.5° | 200.9 | 202.1 | 203.3 | 204.5 | 205.7 | 206.9 | 208.2 | 209.5 | 210.8 | 212.0 | 213.5 |
| 35° | 191.5 | 192.9 | 194.3 | 195.7 | 197.1 | 198.5 | 200.2 | 201.7 | 203.3 | 204.8 | 206.6 |
| 37.5° | 181.2 | 182.9 | 184.5 | 186.1 | 187.7 | 189.6 | 191.6 | 193.6 | 195.6 | 197.6 | 199.7 |
| 40° | 174.5 | 176.3 | 178.1 | 179.9 | 181.6 | 183.7 | 185.9 | 188.2 | 190.4 | 192.6 | 194.7 |
| 42.5° | 168.0 | 169.7 | 171.5 | 173.3 | 175.2 | 177.3 | 179.9 | 182.5 | 185.0 | 187.5 | 189.9 |
| 45° | 157.0 | 159.2 | 161.5 | 163.7 | 165.9 | 168.4 | 171.4 | 174.2 | 177.1 | 180.0 | 182.5 |
| 47.5° | 146.3 | 148.7 | 151.2 | 153.5 | 156.0 | 158.9 | 162.2 | 165.6 | 169.0 | 172.4 | 175.0 |
| 50° | 138.9 | 141.5 | 144.0 | 146.5 | 149.1 | 152.2 | 156.0 | 159.6 | 163.3 | 167.1 | 169.8 |
| 52.5° | 131.8 | 134.4 | 137.1 | 139.8 | 142.5 | 145.8 | 149.7 | 153.6 | 157.5 | 161.4 | 164.3 |
| 55° | 120.3 | 123.4 | 126.3 | 129.2 | 132.2 | 135.8 | 140.1 | 144.4 | 148.7 | 153.0 | 156.0 |
| 57.5° | 109.1 | 112.4 | 115.8 | 119.1 | 122.5 | 126.3 | 130.7 | 135.0 | 139.4 | 143.8 | 147.0 |
| 60° | 101.1 | 104.7 | 108.2 | 111.7 | 115.3 | 119.4 | 124.1 | 128.7 | 133.5 | 138.1 | 141.3 |
| 62.5° | 94.0 | 97.7 | 101.3 | 105.0 | 108.7 | 112.8 | 117.6 | 122.2 | 126.9 | 131.7 | 134.9 |
| 65° | 82.2 | 86.3 | 90.3 | 94.3 | 98.3 | 102.8 | 107.6 | 112.5 | 117.4 | 122.2 | 125.6 |
| 67.5° | 71.4 | 75.7 | 79.8 | 84.1 | 88.3 | 92.9 | 97.8 | 102.8 | 107.8 | 112.8 | 116.2 |
| 70° | 63.7 | 68.0 | 72.2 | 76.6 | 80.8 | 85.5 | 90.6 | 95.7 | 100.9 | 105.9 | 109.5 |
| 72.5° | 56.6 | 61.0 | 65.4 | 69.8 | 74.3 | 79.0 | 84.2 | 89.4 | 94.6 | 99.7 | 103.2 |
| 75° | 45.6 | 50.1 | 54.8 | 59.4 | 64.0 | 68.9 | 74.2 | 79.5 | 84.7 | 90.0 | 93.5 |
| 77.5° | 34.9 | 39.7 | 44.5 | 49.3 | 54.2 | 59.3 | 64.7 | 70.0 | 75.3 | 80.6 | 84.2 |
| 80° | 27.8 | 32.8 | 37.8 | 42.8 | 47.9 | 53.1 | 58.4 | 63.8 | 69.1 | 74.4 | 77.9 |
| 82.5° | 21.9 | 26.8 | 31.8 | 36.7 | 41.7 | 46.9 | 52.3 | 57.7 | 63.1 | 68.5 | 72.0 |
| 85° | 13.4 | 18.4 | 23.6 | 28.6 | 33.8 | 38.9 | 44.2 | 49.5 | 54.7 | 60.0 | 63.4 |
| 87.5° | 7.3 | 12.6 | 17.8 | 22.9 | 28.1 | 33.5 | 39.0 | 44.4 | 49.9 | 55.4 | 58.9 |
| 90° | 4.3 | 10.5 | 16.7 | 22.9 | 29.1 | 35.3 | 41.7 | 47.9 | 54.2 | 60.6 | 64.5 |
| 92.5° | 15.2 | 19.5 | 23.8 | 28.1 | 32.4 | 37.4 | 43.0 | 48.6 | 54.1 | 59.8 | 63.3 |
| 95° | 40.8 | 40.4 | 40.0 | 39.6 | 39.2 | 42.0 | 47.8 | 53.6 | 59.5 | 65.3 | 69.1 |
| 97.5° | 77.9 | 69.2 | 60.6 | 52.0 | 43.4 | 42.5 | 49.3 | 56.2 | 63.0 | 69.9 | 73.4 |
| 100° | 105.8 | 91.2 | 76.4 | 61.7 | 47.0 | 43.0 | 49.8 | 56.7 | 63.4 | 70.3 | 74.4 |
| 102.5° | 136.3 | 135.3 | 134.4 | 133.4 | 132.4 | 125.0 | 111.0 | 97.0 | 83.1 | 69.1 | 73.5 |
| 105° | 179.1 | 185.4 | 191.7 | 198.0 | 204.2 | 191.8 | 160.7 | 129.6 | 98.6 | 67.4 | 71.7 |
| 107.5° | 228.4 | 233.4 | 238.5 | 243.5 | 248.6 | 232.0 | 193.6 | 155.3 | 116.9 | 78.6 | 79.9 |
| 110° | 259.8 | 264.2 | 268.6 | 273.0 | 277.3 | 262.8 | 229.3 | 195.9 | 162.5 | 129.1 | 118.8 |



TEST NUMBER: P331261-930

CATALOG NUMBER: S122DIP-S290D725U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 289.7 | 293.5 | 297.3 | 301.1 | 304.8 | 304.0 | 298.6 | 293.3 | 287.8 | 282.4 | 237.7 |
| 115° | 336.8 | 339.9 | 343.1 | 346.2 | 349.3 | 354.3 | 361.3 | 368.2 | 375.1 | 382.0 | 324.5 |
| 117.5° | 378.5 | 381.6 | 384.7 | 387.8 | 390.8 | 395.2 | 400.8 | 406.4 | 412.1 | 417.8 | 405.7 |
| 120° | 409.4 | 411.6 | 413.9 | 416.2 | 418.4 | 422.4 | 428.0 | 433.7 | 439.3 | 444.9 | 448.7 |
| 122.5° | 435.5 | 437.7 | 439.9 | 442.1 | 444.2 | 448.1 | 453.7 | 459.4 | 465.0 | 470.7 | 473.9 |
| 125° | 474.9 | 476.5 | 478.3 | 480.0 | 481.6 | 485.0 | 490.2 | 495.2 | 500.3 | 505.4 | 508.5 |
| 127.5° | 510.9 | 512.7 | 514.5 | 516.2 | 518.0 | 521.0 | 524.9 | 528.9 | 532.8 | 536.8 | 540.1 |
| 130° | 533.8 | 535.8 | 537.8 | 539.8 | 541.8 | 544.3 | 547.5 | 550.7 | 553.8 | 556.9 | 560.4 |
| 132.5° | 557.1 | 558.8 | 560.5 | 562.1 | 563.9 | 566.1 | 568.8 | 571.6 | 574.4 | 577.1 | 580.2 |
| 135° | 587.1 | 589.1 | 591.3 | 593.3 | 595.4 | 597.4 | 599.4 | 601.4 | 603.4 | 605.4 | 608.4 |
| 137.5° | 617.8 | 619.2 | 620.6 | 622.1 | 623.5 | 625.1 | 626.7 | 628.4 | 630.1 | 631.8 | 634.5 |
| 140° | 637.8 | 638.8 | 639.8 | 640.7 | 641.6 | 642.9 | 644.5 | 646.1 | 647.7 | 649.3 | 651.8 |
| 142.5° | 654.6 | 655.5 | 656.3 | 657.1 | 658.0 | 659.3 | 661.0 | 662.6 | 664.3 | 665.9 | 668.1 |
| 145° | 680.6 | 680.4 | 680.4 | 680.2 | 680.1 | 681.1 | 683.3 | 685.5 | 687.7 | 689.9 | 691.4 |
| 147.5° | 703.6 | 703.1 | 702.6 | 702.1 | 701.6 | 702.5 | 704.7 | 706.8 | 709.0 | 711.2 | 711.9 |
| 150° | 718.5 | 717.6 | 716.7 | 715.8 | 714.9 | 715.5 | 717.5 | 719.6 | 721.7 | 723.7 | 724.6 |
| 152.5° | 731.1 | 730.1 | 729.1 | 728.1 | 727.1 | 727.6 | 729.5 | 731.5 | 733.4 | 735.4 | 736.2 |
| 155° | 749.4 | 748.3 | 747.1 | 745.9 | 744.8 | 744.9 | 746.5 | 748.0 | 749.6 | 751.1 | 752.0 |
| 157.5° | 763.8 | 762.8 | 761.8 | 760.8 | 759.9 | 759.9 | 761.0 | 762.1 | 763.1 | 764.3 | 765.2 |
| 160° | 772.2 | 771.4 | 770.6 | 769.8 | 769.1 | 769.1 | 769.8 | 770.6 | 771.4 | 772.2 | 773.0 |
| 162.5° | 779.7 | 778.9 | 778.1 | 777.3 | 776.5 | 776.5 | 777.1 | 777.8 | 778.5 | 779.2 | 780.1 |
| 165° | 789.7 | 788.9 | 788.1 | 787.3 | 786.5 | 786.4 | 786.8 | 787.2 | 787.5 | 787.9 | 788.8 |
| 167.5° | 797.1 | 796.4 | 795.6 | 794.8 | 794.0 | 793.8 | 794.2 | 794.5 | 794.9 | 795.2 | 796.1 |
| 170° | 801.4 | 800.5 | 799.8 | 799.0 | 798.3 | 797.9 | 798.3 | 798.5 | 798.7 | 799.0 | 799.9 |
| 172.5° | 804.1 | 803.3 | 802.6 | 801.8 | 801.0 | 800.8 | 801.0 | 801.3 | 801.5 | 801.8 | 802.7 |
| 175° | 807.7 | 806.8 | 805.9 | 805.0 | 804.1 | 803.8 | 804.0 | 804.3 | 804.5 | 804.9 | 805.8 |
| 177.5° | 808.4 | 807.6 | 806.9 | 806.2 | 805.4 | 805.1 | 805.2 | 805.4 | 805.4 | 805.5 | 806.2 |
| 180° | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 |



TEST NUMBER: P331261-930

CATALOG NUMBER: S122DIP-S290D725U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 |
| 2.5° | 254.7 | 255.0 | 255.4 | 255.5 | 255.4 | 255.2 | 255.1 | 254.9 |
| 5° | 254.0 | 254.5 | 254.9 | 255.1 | 255.0 | 254.9 | 254.9 | 254.8 |
| 7.5° | 252.7 | 253.3 | 254.0 | 254.2 | 254.1 | 254.0 | 254.0 | 253.9 |
| 10° | 251.7 | 252.3 | 253.0 | 253.3 | 253.2 | 253.2 | 253.1 | 253.0 |
| 12.5° | 249.9 | 250.5 | 251.2 | 251.5 | 251.4 | 251.4 | 251.3 | 251.2 |
| 15° | 246.6 | 247.4 | 248.2 | 248.5 | 248.4 | 248.3 | 248.3 | 248.2 |
| 17.5° | 242.6 | 243.3 | 244.0 | 244.4 | 244.4 | 244.4 | 244.4 | 244.4 |
| 20° | 239.2 | 240.1 | 241.0 | 241.5 | 241.5 | 241.5 | 241.5 | 241.5 |
| 22.5° | 235.7 | 236.6 | 237.5 | 238.0 | 238.1 | 238.2 | 238.4 | 238.6 |
| 25° | 230.2 | 231.1 | 232.1 | 232.7 | 232.9 | 233.2 | 233.4 | 233.7 |
| 27.5° | 224.0 | 225.3 | 226.5 | 227.2 | 227.4 | 227.6 | 227.7 | 228.0 |
| 30° | 219.6 | 221.0 | 222.3 | 223.1 | 223.3 | 223.6 | 223.8 | 224.0 |
| 32.5° | 215.0 | 216.5 | 218.1 | 219.1 | 219.5 | 220.0 | 220.4 | 220.8 |
| 35° | 208.5 | 210.3 | 212.1 | 213.3 | 213.9 | 214.4 | 215.0 | 215.6 |
| 37.5° | 201.6 | 203.7 | 205.7 | 207.0 | 207.6 | 208.2 | 208.8 | 209.4 |
| 40° | 196.9 | 199.0 | 201.1 | 202.6 | 203.3 | 204.1 | 204.8 | 205.5 |
| 42.5° | 192.2 | 194.5 | 196.9 | 198.4 | 199.2 | 199.9 | 200.6 | 201.4 |
| 45° | 185.1 | 187.7 | 190.2 | 191.9 | 192.7 | 193.6 | 194.4 | 195.2 |
| 47.5° | 177.7 | 180.3 | 183.0 | 184.8 | 185.7 | 186.6 | 187.5 | 188.4 |
| 50° | 172.6 | 175.5 | 178.2 | 180.1 | 181.0 | 181.9 | 182.8 | 183.7 |
| 52.5° | 167.1 | 170.0 | 172.8 | 174.8 | 175.8 | 176.8 | 177.7 | 178.6 |
| 55° | 158.9 | 161.8 | 164.9 | 166.8 | 167.9 | 169.0 | 170.1 | 171.1 |
| 57.5° | 150.2 | 153.4 | 156.5 | 158.7 | 159.8 | 160.9 | 161.9 | 163.1 |
| 60° | 144.4 | 147.6 | 150.7 | 152.8 | 153.9 | 155.1 | 156.3 | 157.4 |
| 62.5° | 138.3 | 141.6 | 145.0 | 147.2 | 148.2 | 149.3 | 150.4 | 151.5 |
| 65° | 129.0 | 132.3 | 135.7 | 137.9 | 139.0 | 140.1 | 141.1 | 142.2 |
| 67.5° | 119.5 | 122.9 | 126.4 | 128.7 | 129.7 | 130.9 | 132.0 | 133.1 |
| 70° | 113.0 | 116.5 | 120.1 | 122.4 | 123.4 | 124.3 | 125.3 | 126.3 |
| 72.5° | 106.6 | 110.1 | 113.6 | 115.9 | 117.1 | 118.3 | 119.5 | 120.7 |
| 75° | 97.1 | 100.6 | 104.2 | 106.5 | 107.5 | 108.6 | 109.7 | 110.7 |
| 77.5° | 87.7 | 91.2 | 94.7 | 97.1 | 98.2 | 99.4 | 100.5 | 101.7 |
| 80° | 81.4 | 84.8 | 88.3 | 90.6 | 91.7 | 92.9 | 94.0 | 95.1 |
| 82.5° | 75.4 | 78.9 | 82.3 | 84.6 | 85.7 | 86.8 | 87.9 | 88.9 |
| 85° | 66.9 | 70.4 | 73.9 | 76.1 | 77.3 | 78.4 | 79.6 | 80.7 |
| 87.5° | 62.4 | 65.8 | 69.3 | 71.6 | 72.7 | 73.9 | 74.9 | 76.1 |
| 90° | 68.4 | 72.4 | 76.3 | 78.9 | 80.1 | 81.4 | 82.7 | 83.9 |
| 92.5° | 66.9 | 70.4 | 74.0 | 76.4 | 77.5 | 78.7 | 79.8 | 81.0 |
| 95° | 72.9 | 76.6 | 80.5 | 82.8 | 83.6 | 84.5 | 85.4 | 86.2 |
| 97.5° | 77.0 | 80.6 | 84.1 | 86.4 | 87.6 | 88.7 | 89.8 | 91.0 |
| 100° | 78.4 | 82.5 | 86.6 | 89.2 | 90.4 | 91.6 | 92.7 | 93.9 |
| 102.5° | 77.8 | 82.1 | 86.4 | 89.3 | 90.5 | 91.8 | 93.0 | 94.3 |
| 105° | 76.1 | 80.3 | 84.6 | 87.5 | 88.9 | 90.3 | 91.8 | 93.2 |
| 107.5° | 81.3 | 82.6 | 83.9 | 85.3 | 86.7 | 88.1 | 89.5 | 90.9 |
| 110° | 108.4 | 98.1 | 87.8 | 83.3 | 84.8 | 86.2 | 87.6 | 89.0 |



TEST NUMBER: P331261-930

CATALOG NUMBER: S122DIP-S290D725U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 193.1 | 148.5 | 103.8 | 82.2 | 83.5 | 84.8 | 86.1 | 87.4 |
| 115° | 267.0 | 209.5 | 151.9 | 119.0 | 110.5 | 102.1 | 93.7 | 85.2 |
| 117.5° | 393.6 | 381.5 | 369.4 | 348.5 | 318.6 | 288.9 | 259.0 | 229.2 |
| 120° | 452.7 | 456.5 | 460.3 | 454.0 | 437.4 | 420.8 | 404.2 | 387.6 |
| 122.5° | 477.0 | 480.1 | 483.3 | 483.6 | 481.0 | 478.3 | 475.7 | 473.1 |
| 125° | 511.7 | 514.8 | 518.0 | 520.1 | 521.2 | 522.3 | 523.4 | 524.6 |
| 127.5° | 543.6 | 546.9 | 550.2 | 552.4 | 553.1 | 553.9 | 554.7 | 555.5 |
| 130° | 563.8 | 567.1 | 570.5 | 572.5 | 573.1 | 573.6 | 574.1 | 574.6 |
| 132.5° | 583.3 | 586.4 | 589.6 | 591.4 | 592.0 | 592.5 | 593.0 | 593.5 |
| 135° | 611.4 | 614.4 | 617.4 | 619.1 | 619.5 | 620.0 | 620.4 | 620.8 |
| 137.5° | 637.4 | 640.2 | 642.9 | 644.4 | 644.5 | 644.7 | 644.7 | 644.8 |
| 140° | 654.3 | 656.7 | 659.2 | 660.4 | 660.2 | 660.1 | 659.9 | 659.7 |
| 142.5° | 670.2 | 672.3 | 674.4 | 675.4 | 675.1 | 674.9 | 674.7 | 674.5 |
| 145° | 692.8 | 694.1 | 695.5 | 696.1 | 695.9 | 695.6 | 695.5 | 695.2 |
| 147.5° | 712.7 | 713.4 | 714.1 | 714.3 | 714.0 | 713.6 | 713.3 | 712.9 |
| 150° | 725.3 | 726.1 | 726.8 | 726.9 | 726.3 | 725.6 | 725.0 | 724.3 |
| 152.5° | 736.9 | 737.8 | 738.6 | 738.5 | 737.7 | 736.8 | 736.0 | 735.1 |
| 155° | 752.8 | 753.5 | 754.3 | 754.2 | 753.1 | 752.1 | 751.1 | 750.0 |
| 157.5° | 766.0 | 766.9 | 767.8 | 767.7 | 766.7 | 765.6 | 764.7 | 763.7 |
| 160° | 773.7 | 774.5 | 775.3 | 775.2 | 774.3 | 773.4 | 772.5 | 771.6 |
| 162.5° | 780.9 | 781.8 | 782.7 | 782.6 | 781.5 | 780.3 | 779.3 | 778.1 |
| 165° | 789.7 | 790.7 | 791.6 | 791.6 | 790.7 | 789.7 | 788.8 | 787.9 |
| 167.5° | 797.1 | 798.0 | 798.9 | 798.7 | 797.6 | 796.5 | 795.2 | 794.1 |
| 170° | 800.8 | 801.7 | 802.7 | 802.5 | 801.4 | 800.1 | 799.0 | 797.9 |
| 172.5° | 803.6 | 804.5 | 805.4 | 805.3 | 804.1 | 803.0 | 801.8 | 800.6 |
| 175° | 806.7 | 807.6 | 808.5 | 808.3 | 807.0 | 805.7 | 804.4 | 803.1 |
| 177.5° | 807.0 | 807.7 | 808.5 | 808.4 | 807.4 | 806.5 | 805.5 | 804.6 |
| 180° | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 |

(END OF REPORT)