

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: P331281-940

Luminaire Tested: **S122DIP-S290D1080U940-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331281-940
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-S290D1080U940-4F0-1E-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: 4819.5 lumens
Efficiency: N/A
Efficacy: 114.2 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

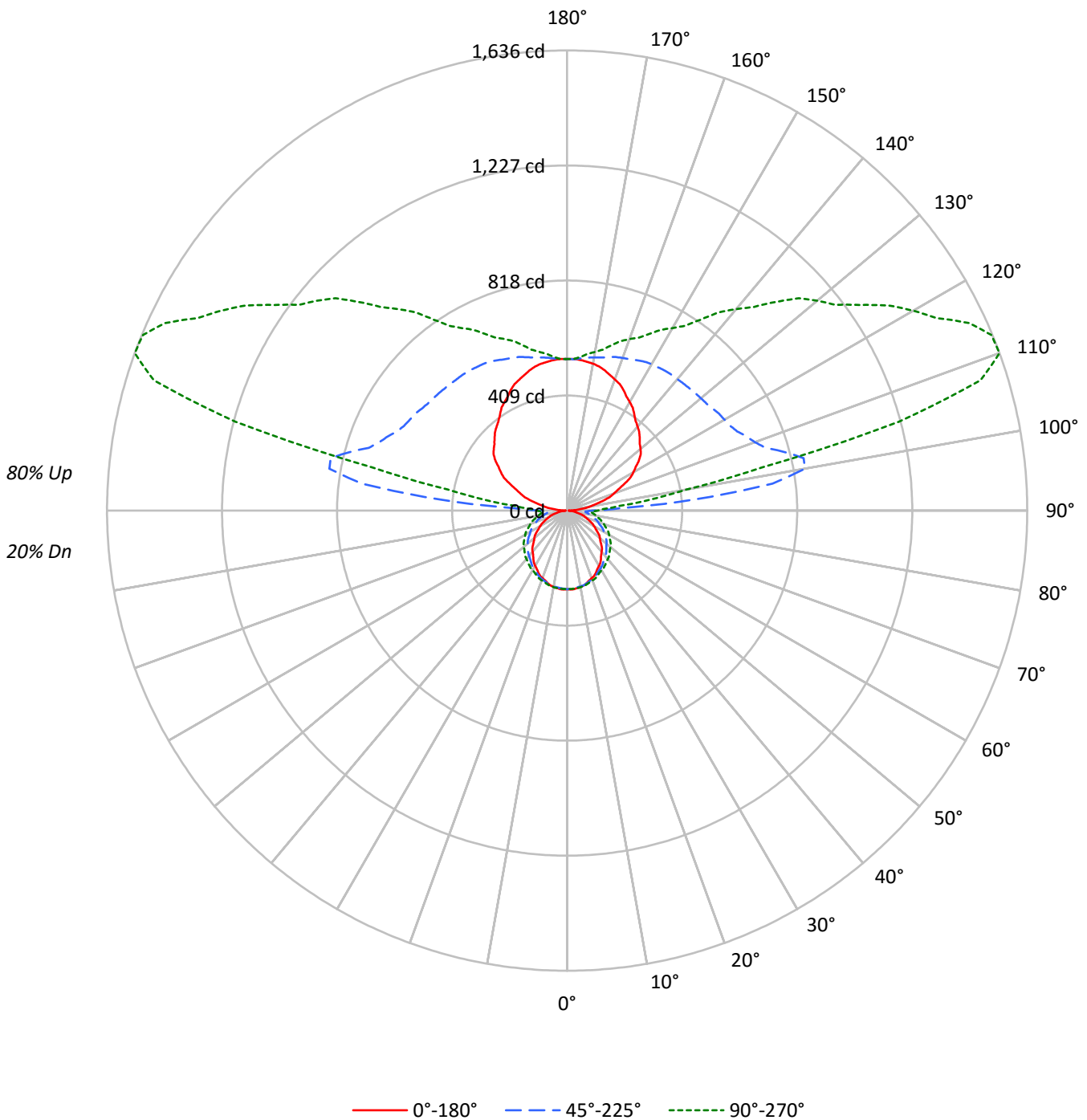
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331281-940

CATALOG NUMBER: S122DIP-S290D1080U940-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331281-940

CATALOG NUMBER: S122DIP-S290D1080U940-4F0-1E-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° | 4514 | 4514 | 4514 |
| 5° | 4536 | 4345 | 4328 |
| 10° | 4507 | 4215 | 4169 |
| 15° | 4443 | 4079 | 4001 |
| 20° | 4366 | 3935 | 3839 |
| 25° | 4289 | 3793 | 3693 |
| 30° | 4180 | 3650 | 3544 |
| 35° | 4070 | 3510 | 3442 |
| 40° | 3952 | 3391 | 3338 |
| 45° | 3841 | 3286 | 3250 |
| 50° | 3723 | 3189 | 3162 |
| 55° | 3597 | 3086 | 3074 |
| 60° | 3447 | 2979 | 2980 |
| 65° | 3288 | 2854 | 2867 |
| 70° | 3108 | 2717 | 2746 |
| 75° | 2883 | 2585 | 2636 |
| 80° | 2528 | 2450 | 2524 |
| 85° | 2185 | 2333 | 2436 |



TEST NUMBER: P331281-940

CATALOG NUMBER: S122DIP-S290D1080U940-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.5 | 0.5 |
| 10°-20° | 75.9 | 1.6 |
| 20°-30° | 115.1 | 2.4 |
| 30°-40° | 140.2 | 2.9 |
| 40°-50° | 150.8 | 3.1 |
| 50°-60° | 146.5 | 3.0 |
| 60°-70° | 127.9 | 2.7 |
| 70°-80° | 98.4 | 2.0 |
| 80°-90° | 70.9 | 1.5 |
| 90°-100° | 260.9 | 5.4 |
| 100°-110° | 764.1 | 15.9 |
| 110°-120° | 798.4 | 16.6 |
| 120°-130° | 651.4 | 13.5 |
| 130°-140° | 518.4 | 10.8 |
| 140°-150° | 388.8 | 8.1 |
| 150°-160° | 272.6 | 5.7 |
| 160°-170° | 160.5 | 3.3 |
| 170°-180° | 52.2 | 1.1 |
| 0°-30° | 217.5 | 4.5 |
| 0°-40° | 357.7 | 7.4 |
| 0°-60° | 654.9 | 13.6 |
| 0°-90° | 952.2 | 19.8 |
| 90°-120° | 1823.4 | 37.8 |
| 90°-150° | 3382.1 | 70.2 |
| 90°-180° | 3867.0 | 80.2 |
| 0°-180° | 4819.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 280 | 280 | 280 | 280 | 280 | |
| 5° | 280 | 279 | 277 | 279 | 279 | 27 |
| 15° | 267 | 268 | 268 | 272 | 271 | 75 |
| 25° | 243 | 246 | 250 | 254 | 256 | 112 |
| 35° | 210 | 216 | 224 | 233 | 236 | 131 |
| 45° | 172 | 183 | 197 | 209 | 214 | 133 |
| 55° | 132 | 147 | 167 | 181 | 187 | 118 |
| 65° | 90 | 110 | 134 | 150 | 156 | 89 |
| 75° | 50 | 73 | 98 | 115 | 121 | 53 |
| 85° | 15 | 40 | 66 | 82 | 88 | 16 |
| 90° | 5 | 42 | 89 | 103 | 109 | 5 |
| 95° | 40 | 112 | 453 | 215 | 185 | 41 |
| 105° | 128 | 205 | 802 | 1420 | 1221 | 137 |
| 115° | 224 | 288 | 667 | 1361 | 1577 | 222 |
| 125° | 312 | 369 | 631 | 1098 | 1274 | 277 |
| 135° | 365 | 436 | 615 | 915 | 1049 | 282 |
| 145° | 416 | 479 | 607 | 756 | 829 | 261 |
| 155° | 473 | 511 | 589 | 667 | 693 | 218 |
| 165° | 516 | 531 | 564 | 599 | 608 | 145 |
| 175° | 538 | 538 | 543 | 550 | 548 | 51 |
| 180° | 539 | 539 | 539 | 539 | 539 | |



TEST NUMBER: P331281-940

CATALOG NUMBER: S122DIP-S290D1080U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 |
| 2.5° | 281.2 | 280.9 | 280.7 | 280.4 | 280.3 | 279.9 | 279.4 | 278.9 | 278.4 | 277.9 | 278.2 |
| 5° | 280.4 | 280.1 | 279.8 | 279.6 | 279.2 | 278.8 | 278.3 | 277.8 | 277.2 | 276.7 | 277.2 |
| 7.5° | 277.8 | 277.6 | 277.4 | 277.2 | 277.1 | 276.8 | 276.3 | 276.0 | 275.5 | 275.1 | 275.8 |
| 10° | 275.9 | 275.7 | 275.5 | 275.4 | 275.2 | 274.9 | 274.6 | 274.4 | 274.1 | 273.8 | 274.6 |
| 12.5° | 272.6 | 272.7 | 272.7 | 272.8 | 272.8 | 272.7 | 272.5 | 272.3 | 272.1 | 271.9 | 272.6 |
| 15° | 267.3 | 267.5 | 267.7 | 267.9 | 268.0 | 268.1 | 268.1 | 268.1 | 268.1 | 268.1 | 268.9 |
| 17.5° | 260.6 | 260.9 | 261.3 | 261.7 | 262.1 | 262.4 | 262.7 | 263.0 | 263.2 | 263.6 | 264.4 |
| 20° | 256.0 | 256.5 | 256.9 | 257.3 | 257.8 | 258.2 | 258.6 | 259.0 | 259.3 | 259.7 | 260.6 |
| 22.5° | 251.2 | 251.6 | 252.2 | 252.7 | 253.2 | 253.8 | 254.2 | 254.8 | 255.3 | 255.7 | 256.7 |
| 25° | 243.1 | 243.7 | 244.3 | 245.0 | 245.6 | 246.3 | 247.1 | 247.9 | 248.7 | 249.5 | 250.6 |
| 27.5° | 233.4 | 234.3 | 235.4 | 236.4 | 237.5 | 238.4 | 239.3 | 240.3 | 241.3 | 242.3 | 243.6 |
| 30° | 226.9 | 228.0 | 229.2 | 230.3 | 231.5 | 232.7 | 233.9 | 235.1 | 236.2 | 237.4 | 238.8 |
| 32.5° | 219.7 | 221.1 | 222.3 | 223.6 | 225.0 | 226.3 | 227.7 | 229.1 | 230.5 | 231.8 | 233.5 |
| 35° | 209.5 | 211.0 | 212.5 | 214.0 | 215.5 | 217.1 | 218.9 | 220.6 | 222.3 | 224.0 | 226.0 |
| 37.5° | 198.2 | 200.0 | 201.8 | 203.6 | 205.3 | 207.3 | 209.6 | 211.7 | 213.9 | 216.2 | 218.4 |
| 40° | 190.8 | 192.8 | 194.7 | 196.7 | 198.7 | 200.9 | 203.3 | 205.8 | 208.2 | 210.6 | 212.9 |
| 42.5° | 183.7 | 185.7 | 187.6 | 189.6 | 191.6 | 193.9 | 196.8 | 199.6 | 202.3 | 205.1 | 207.7 |
| 45° | 171.7 | 174.2 | 176.6 | 179.1 | 181.5 | 184.2 | 187.4 | 190.6 | 193.7 | 196.9 | 199.7 |
| 47.5° | 160.0 | 162.6 | 165.3 | 167.9 | 170.6 | 173.8 | 177.5 | 181.1 | 184.9 | 188.5 | 191.5 |
| 50° | 151.9 | 154.7 | 157.5 | 160.2 | 163.1 | 166.5 | 170.6 | 174.6 | 178.6 | 182.7 | 185.7 |
| 52.5° | 144.1 | 147.0 | 150.0 | 152.9 | 155.9 | 159.4 | 163.7 | 168.0 | 172.3 | 176.6 | 179.7 |
| 55° | 131.6 | 134.9 | 138.1 | 141.3 | 144.6 | 148.6 | 153.3 | 157.9 | 162.6 | 167.3 | 170.6 |
| 57.5° | 119.3 | 123.0 | 126.6 | 130.3 | 133.9 | 138.1 | 142.9 | 147.7 | 152.5 | 157.3 | 160.8 |
| 60° | 110.6 | 114.5 | 118.3 | 122.2 | 126.1 | 130.5 | 135.7 | 140.8 | 146.0 | 151.1 | 154.5 |
| 62.5° | 102.8 | 106.8 | 110.8 | 114.9 | 118.9 | 123.4 | 128.6 | 133.7 | 138.8 | 144.0 | 147.6 |
| 65° | 89.9 | 94.3 | 98.7 | 103.2 | 107.5 | 112.4 | 117.7 | 123.1 | 128.4 | 133.7 | 137.4 |
| 67.5° | 78.1 | 82.8 | 87.3 | 91.9 | 96.6 | 101.6 | 107.0 | 112.4 | 117.9 | 123.3 | 127.1 |
| 70° | 69.6 | 74.4 | 79.0 | 83.7 | 88.4 | 93.5 | 99.1 | 104.7 | 110.3 | 115.8 | 119.8 |
| 72.5° | 61.9 | 66.7 | 71.5 | 76.3 | 81.2 | 86.4 | 92.1 | 97.7 | 103.4 | 109.1 | 112.9 |
| 75° | 49.8 | 54.8 | 59.9 | 64.9 | 70.0 | 75.3 | 81.1 | 86.9 | 92.6 | 98.4 | 102.3 |
| 77.5° | 38.2 | 43.4 | 48.7 | 53.9 | 59.3 | 64.8 | 70.7 | 76.5 | 82.4 | 88.2 | 92.1 |
| 80° | 30.4 | 35.8 | 41.4 | 46.8 | 52.3 | 58.1 | 63.8 | 69.7 | 75.5 | 81.4 | 85.2 |
| 82.5° | 23.9 | 29.3 | 34.8 | 40.1 | 45.6 | 51.3 | 57.2 | 63.1 | 69.0 | 74.9 | 78.7 |
| 85° | 14.6 | 20.2 | 25.8 | 31.3 | 36.9 | 42.5 | 48.3 | 54.1 | 59.8 | 65.6 | 69.4 |
| 87.5° | 8.1 | 14.1 | 20.3 | 26.1 | 31.9 | 38.1 | 44.9 | 52.1 | 59.1 | 65.1 | 68.5 |
| 90° | 5.1 | 13.4 | 22.7 | 30.1 | 37.4 | 45.9 | 56.9 | 69.9 | 81.9 | 88.7 | 91.2 |
| 92.5° | 16.4 | 26.8 | 39.1 | 48.6 | 60.5 | 75.4 | 104.3 | 142.9 | 177.8 | 185.2 | 167.8 |
| 95° | 39.5 | 47.9 | 62.4 | 76.0 | 96.8 | 126.5 | 179.6 | 275.1 | 400.6 | 452.6 | 405.3 |
| 97.5° | 61.9 | 71.2 | 86.0 | 103.8 | 126.6 | 159.3 | 224.4 | 355.1 | 560.0 | 736.3 | 773.6 |
| 100° | 82.6 | 89.0 | 101.7 | 121.6 | 145.6 | 178.9 | 238.8 | 370.1 | 599.0 | 858.8 | 1011.4 |
| 102.5° | 101.3 | 106.6 | 119.0 | 138.7 | 163.2 | 196.2 | 251.8 | 369.1 | 581.1 | 860.8 | 1098.5 |
| 105° | 128.4 | 135.2 | 145.0 | 163.2 | 188.6 | 221.2 | 274.6 | 371.5 | 547.1 | 802.5 | 1081.1 |
| 107.5° | 158.2 | 163.5 | 172.7 | 189.0 | 213.7 | 246.2 | 297.9 | 382.8 | 528.6 | 740.3 | 986.7 |
| 110° | 177.7 | 183.7 | 191.7 | 207.0 | 230.5 | 263.7 | 313.6 | 392.6 | 523.4 | 710.2 | 927.5 |



TEST NUMBER: P331281-940

CATALOG NUMBER: S122DIP-S290D1080U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 195.9 | 201.6 | 210.2 | 224.4 | 246.7 | 280.4 | 328.6 | 403.2 | 522.2 | 689.6 | 885.4 |
| 115° | 224.4 | 230.5 | 237.7 | 251.1 | 272.9 | 303.4 | 352.0 | 419.2 | 523.7 | 666.6 | 832.9 |
| 117.5° | 253.3 | 258.2 | 265.0 | 276.6 | 297.2 | 328.3 | 373.4 | 436.3 | 528.2 | 653.4 | 798.5 |
| 120° | 271.6 | 276.1 | 282.7 | 292.3 | 313.4 | 344.4 | 388.4 | 447.9 | 531.3 | 645.8 | 779.8 |
| 122.5° | 289.0 | 292.5 | 298.8 | 309.1 | 329.9 | 361.6 | 402.9 | 458.1 | 535.4 | 640.5 | 763.8 |
| 125° | 311.6 | 314.7 | 320.9 | 333.3 | 354.0 | 384.5 | 424.6 | 474.1 | 541.3 | 631.2 | 740.3 |
| 127.5° | 329.8 | 333.9 | 342.5 | 356.1 | 375.9 | 406.8 | 445.4 | 489.5 | 547.8 | 624.7 | 718.5 |
| 130° | 340.5 | 344.6 | 354.9 | 369.3 | 389.9 | 419.8 | 458.0 | 499.3 | 552.9 | 621.1 | 704.1 |
| 132.5° | 350.5 | 355.4 | 366.5 | 381.7 | 403.2 | 432.9 | 469.0 | 508.9 | 558.0 | 618.3 | 692.1 |
| 135° | 365.1 | 369.2 | 381.6 | 397.2 | 421.0 | 450.4 | 484.5 | 521.7 | 564.0 | 614.6 | 675.6 |
| 137.5° | 379.2 | 384.1 | 396.5 | 413.0 | 436.7 | 463.8 | 496.9 | 531.1 | 569.2 | 612.1 | 663.2 |
| 140° | 389.9 | 394.0 | 406.3 | 422.8 | 445.5 | 472.4 | 503.7 | 536.0 | 571.4 | 609.9 | 655.9 |
| 142.5° | 400.6 | 403.9 | 415.4 | 431.9 | 453.8 | 479.0 | 509.3 | 540.6 | 573.4 | 609.2 | 649.2 |
| 145° | 416.4 | 420.5 | 431.0 | 446.5 | 467.2 | 490.0 | 517.9 | 547.0 | 576.0 | 607.0 | 640.7 |
| 147.5° | 433.8 | 436.9 | 446.8 | 461.2 | 478.4 | 498.6 | 525.0 | 550.5 | 576.8 | 603.3 | 632.4 |
| 150° | 445.4 | 448.5 | 456.8 | 470.3 | 485.8 | 504.4 | 528.3 | 552.1 | 576.0 | 600.8 | 625.6 |
| 152.5° | 457.0 | 458.5 | 466.7 | 478.6 | 493.3 | 510.2 | 531.6 | 552.9 | 574.3 | 596.6 | 619.8 |
| 155° | 473.4 | 474.4 | 480.6 | 492.0 | 503.5 | 519.0 | 536.5 | 554.2 | 571.8 | 589.4 | 609.1 |
| 157.5° | 487.1 | 488.1 | 493.1 | 503.0 | 512.1 | 525.2 | 540.1 | 554.2 | 567.0 | 581.9 | 599.0 |
| 160° | 496.1 | 497.2 | 501.3 | 509.6 | 517.9 | 529.3 | 541.8 | 554.2 | 564.5 | 577.0 | 591.5 |
| 162.5° | 505.3 | 504.7 | 508.8 | 515.4 | 522.9 | 531.8 | 542.6 | 553.4 | 562.0 | 572.8 | 584.9 |
| 165° | 515.9 | 514.9 | 516.9 | 523.1 | 528.3 | 534.5 | 543.9 | 551.1 | 557.3 | 564.5 | 573.9 |
| 167.5° | 524.6 | 523.3 | 525.2 | 529.1 | 532.9 | 536.8 | 543.6 | 549.7 | 552.5 | 557.3 | 563.1 |
| 170° | 530.4 | 528.3 | 529.3 | 532.4 | 534.5 | 537.6 | 542.8 | 548.0 | 550.0 | 553.1 | 557.3 |
| 172.5° | 533.7 | 532.4 | 531.8 | 534.9 | 536.2 | 538.4 | 542.0 | 545.5 | 546.7 | 548.2 | 551.5 |
| 175° | 537.6 | 536.5 | 535.6 | 537.6 | 537.6 | 538.7 | 540.7 | 542.8 | 541.8 | 542.8 | 543.9 |
| 177.5° | 539.5 | 537.8 | 537.0 | 538.7 | 538.7 | 538.7 | 539.5 | 541.2 | 539.5 | 538.7 | 539.5 |
| 180° | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 |



TEST NUMBER: P331281-940

CATALOG NUMBER: S122DIP-S290D1080U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 |
| 2.5° | 278.6 | 278.9 | 279.3 | 279.5 | 279.3 | 279.1 | 279.0 | 278.8 |
| 5° | 277.8 | 278.3 | 278.8 | 279.0 | 278.9 | 278.8 | 278.7 | 278.7 |
| 7.5° | 276.4 | 277.1 | 277.8 | 278.0 | 277.9 | 277.9 | 277.8 | 277.7 |
| 10° | 275.3 | 276.0 | 276.7 | 277.1 | 277.0 | 276.9 | 276.8 | 276.7 |
| 12.5° | 273.3 | 274.0 | 274.7 | 275.1 | 275.0 | 274.9 | 274.8 | 274.7 |
| 15° | 269.7 | 270.6 | 271.4 | 271.8 | 271.7 | 271.6 | 271.5 | 271.4 |
| 17.5° | 265.3 | 266.1 | 266.9 | 267.3 | 267.3 | 267.3 | 267.3 | 267.3 |
| 20° | 261.6 | 262.6 | 263.6 | 264.1 | 264.1 | 264.1 | 264.1 | 264.1 |
| 22.5° | 257.8 | 258.8 | 259.8 | 260.3 | 260.5 | 260.6 | 260.7 | 260.9 |
| 25° | 251.7 | 252.8 | 253.9 | 254.5 | 254.8 | 255.0 | 255.3 | 255.6 |
| 27.5° | 245.0 | 246.4 | 247.7 | 248.5 | 248.7 | 248.9 | 249.1 | 249.3 |
| 30° | 240.2 | 241.7 | 243.2 | 244.0 | 244.2 | 244.5 | 244.8 | 245.0 |
| 32.5° | 235.1 | 236.8 | 238.5 | 239.6 | 240.0 | 240.6 | 241.0 | 241.5 |
| 35° | 228.0 | 230.0 | 231.9 | 233.3 | 233.9 | 234.5 | 235.1 | 235.8 |
| 37.5° | 220.5 | 222.7 | 225.0 | 226.4 | 227.0 | 227.7 | 228.4 | 229.0 |
| 40° | 215.3 | 217.7 | 220.0 | 221.6 | 222.4 | 223.2 | 224.0 | 224.8 |
| 42.5° | 210.3 | 212.8 | 215.3 | 217.0 | 217.8 | 218.6 | 219.5 | 220.3 |
| 45° | 202.4 | 205.3 | 208.0 | 209.9 | 210.8 | 211.7 | 212.6 | 213.5 |
| 47.5° | 194.4 | 197.2 | 200.2 | 202.2 | 203.1 | 204.1 | 205.1 | 206.1 |
| 50° | 188.8 | 191.9 | 194.9 | 197.0 | 198.0 | 198.9 | 199.9 | 200.9 |
| 52.5° | 182.8 | 185.9 | 189.0 | 191.2 | 192.3 | 193.3 | 194.4 | 195.4 |
| 55° | 173.8 | 177.0 | 180.3 | 182.4 | 183.6 | 184.9 | 186.0 | 187.2 |
| 57.5° | 164.3 | 167.7 | 171.2 | 173.5 | 174.8 | 175.9 | 177.1 | 178.3 |
| 60° | 157.9 | 161.4 | 164.8 | 167.1 | 168.4 | 169.6 | 170.9 | 172.2 |
| 62.5° | 151.2 | 154.9 | 158.5 | 161.0 | 162.1 | 163.3 | 164.5 | 165.7 |
| 65° | 141.1 | 144.7 | 148.5 | 150.9 | 152.0 | 153.2 | 154.4 | 155.5 |
| 67.5° | 130.7 | 134.5 | 138.2 | 140.7 | 141.9 | 143.1 | 144.4 | 145.6 |
| 70° | 123.6 | 127.4 | 131.3 | 133.8 | 134.9 | 136.0 | 137.1 | 138.1 |
| 72.5° | 116.6 | 120.5 | 124.2 | 126.8 | 128.0 | 129.4 | 130.7 | 132.0 |
| 75° | 106.2 | 110.0 | 114.0 | 116.5 | 117.6 | 118.8 | 119.9 | 121.1 |
| 77.5° | 95.9 | 99.8 | 103.6 | 106.2 | 107.5 | 108.7 | 109.9 | 111.2 |
| 80° | 89.0 | 92.7 | 96.6 | 99.1 | 100.3 | 101.6 | 102.8 | 104.1 |
| 82.5° | 82.5 | 86.3 | 90.1 | 92.6 | 93.7 | 95.0 | 96.1 | 97.3 |
| 85° | 73.2 | 77.0 | 80.8 | 83.3 | 84.5 | 85.8 | 87.0 | 88.3 |
| 87.5° | 72.0 | 75.3 | 79.4 | 81.9 | 83.1 | 84.3 | 85.4 | 86.6 |
| 90° | 93.8 | 95.3 | 101.0 | 104.4 | 105.5 | 106.6 | 107.6 | 108.7 |
| 92.5° | 147.9 | 138.7 | 133.5 | 129.3 | 129.6 | 127.3 | 129.3 | 128.7 |
| 95° | 324.9 | 265.0 | 225.0 | 204.5 | 192.1 | 184.9 | 182.8 | 184.9 |
| 97.5° | 683.1 | 571.2 | 462.5 | 389.9 | 341.4 | 317.0 | 302.9 | 295.3 |
| 100° | 992.9 | 867.8 | 729.2 | 606.0 | 521.0 | 477.5 | 448.4 | 430.8 |
| 102.5° | 1195.2 | 1169.5 | 1068.9 | 938.3 | 845.8 | 770.8 | 734.2 | 710.0 |
| 105° | 1299.8 | 1420.0 | 1436.5 | 1404.4 | 1341.2 | 1278.0 | 1234.4 | 1220.9 |
| 107.5° | 1218.3 | 1397.6 | 1508.3 | 1560.5 | 1569.6 | 1567.0 | 1559.1 | 1540.8 |
| 110° | 1148.9 | 1337.2 | 1472.7 | 1559.5 | 1605.1 | 1625.8 | 1636.1 | 1636.0 |



TEST NUMBER: P331281-940

CATALOG NUMBER: S122DIP-S290D1080U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1085.3 | 1266.1 | 1410.8 | 1510.0 | 1573.0 | 1607.0 | 1625.5 | 1632.1 |
| 115° | 1006.6 | 1168.8 | 1307.2 | 1415.7 | 1490.2 | 1538.9 | 1566.8 | 1577.1 |
| 117.5° | 946.4 | 1089.1 | 1214.8 | 1316.7 | 1392.6 | 1443.9 | 1473.2 | 1481.9 |
| 120° | 916.0 | 1047.0 | 1159.2 | 1255.3 | 1328.7 | 1378.5 | 1409.5 | 1420.9 |
| 122.5° | 891.5 | 1011.6 | 1118.1 | 1204.9 | 1270.8 | 1319.5 | 1347.0 | 1356.6 |
| 125° | 855.6 | 964.7 | 1058.4 | 1137.6 | 1198.5 | 1238.7 | 1265.4 | 1274.5 |
| 127.5° | 820.2 | 919.0 | 1007.2 | 1080.4 | 1133.5 | 1171.3 | 1194.4 | 1201.8 |
| 130° | 797.4 | 888.7 | 972.6 | 1042.4 | 1094.0 | 1129.9 | 1151.3 | 1160.3 |
| 132.5° | 775.4 | 860.0 | 937.3 | 1002.9 | 1053.6 | 1089.5 | 1109.3 | 1117.4 |
| 135° | 744.8 | 815.0 | 885.3 | 944.6 | 989.8 | 1024.8 | 1044.1 | 1049.0 |
| 137.5° | 719.8 | 778.6 | 834.6 | 886.2 | 927.5 | 957.4 | 974.5 | 981.2 |
| 140° | 703.9 | 755.1 | 804.2 | 850.8 | 884.5 | 912.0 | 928.0 | 934.8 |
| 142.5° | 691.1 | 734.5 | 776.7 | 815.6 | 847.6 | 872.5 | 886.9 | 888.6 |
| 145° | 673.3 | 708.1 | 740.7 | 771.2 | 796.6 | 814.7 | 825.5 | 829.0 |
| 147.5° | 659.8 | 686.8 | 711.9 | 734.1 | 754.7 | 769.1 | 776.3 | 778.4 |
| 150° | 650.5 | 673.3 | 695.1 | 713.7 | 729.2 | 741.7 | 747.9 | 748.9 |
| 152.5° | 641.4 | 662.5 | 681.0 | 697.1 | 709.4 | 720.1 | 724.7 | 724.9 |
| 155° | 628.7 | 645.3 | 660.8 | 672.3 | 683.7 | 690.9 | 695.1 | 693.0 |
| 157.5° | 614.0 | 627.9 | 641.0 | 649.9 | 658.0 | 664.0 | 665.8 | 665.8 |
| 160° | 604.9 | 616.4 | 627.8 | 635.0 | 642.2 | 647.4 | 648.5 | 648.5 |
| 162.5° | 595.8 | 605.6 | 615.3 | 620.9 | 628.1 | 631.7 | 632.7 | 631.9 |
| 165° | 582.2 | 589.4 | 596.6 | 600.8 | 604.9 | 609.1 | 609.1 | 608.1 |
| 167.5° | 569.1 | 574.7 | 579.7 | 583.4 | 585.2 | 587.5 | 587.4 | 586.1 |
| 170° | 562.5 | 565.6 | 569.7 | 571.8 | 572.8 | 576.0 | 574.9 | 572.8 |
| 172.5° | 555.0 | 557.3 | 560.6 | 561.9 | 562.9 | 564.4 | 563.3 | 562.0 |
| 175° | 547.0 | 548.0 | 549.0 | 550.0 | 550.0 | 551.1 | 550.0 | 548.0 |
| 177.5° | 541.2 | 541.2 | 542.0 | 542.0 | 542.0 | 542.0 | 541.2 | 539.5 |
| 180° | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 | 538.7 |

(END OF REPORT)