

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: P331632-930

Luminaire Tested: **S122RDIP-S290D725U930-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331632-930  
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: S122RDIP-S290D725U930-4F0-1E-UDD-F4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3150.9 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

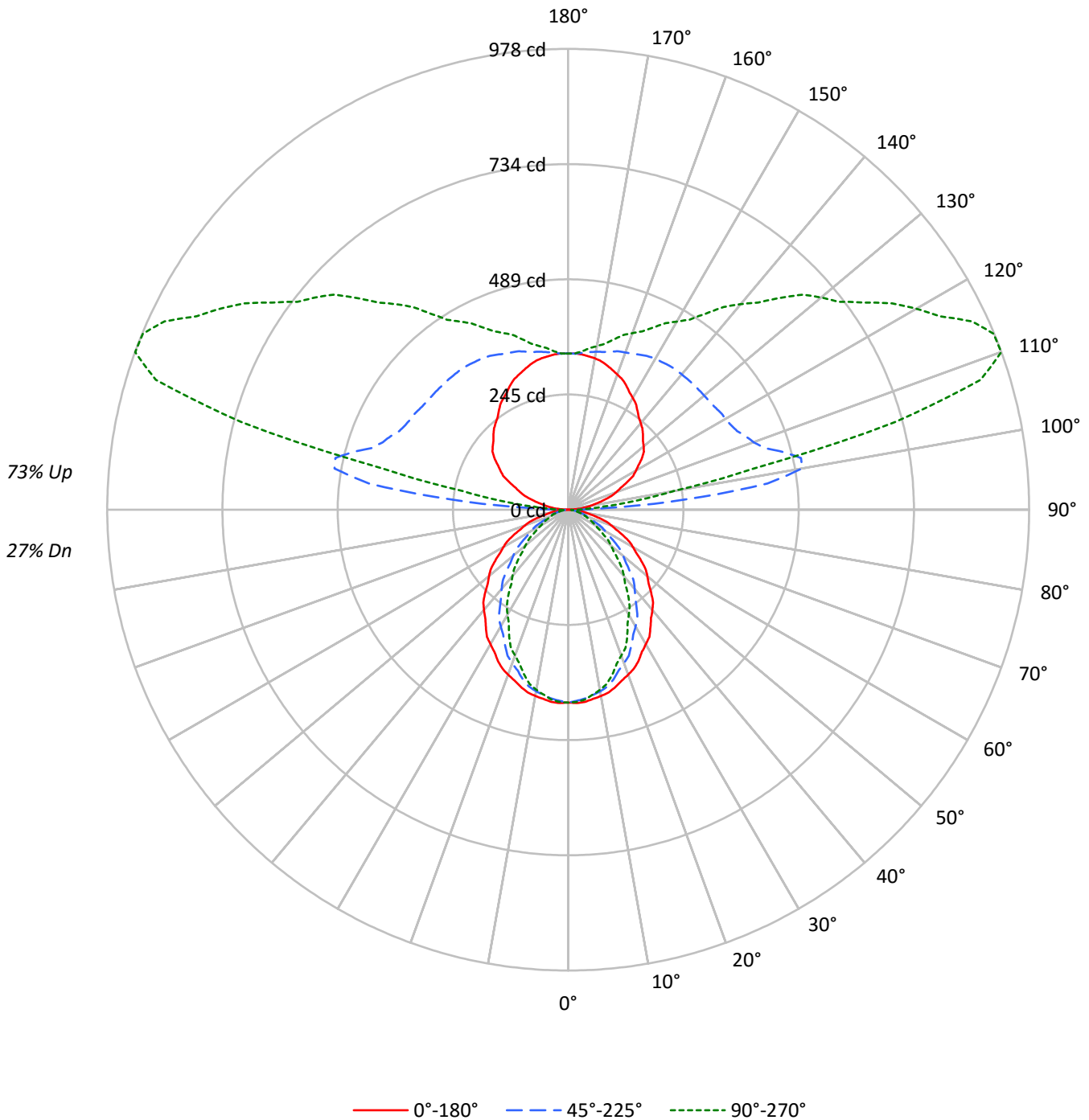
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331632-930

CATALOG NUMBER: S122RDIP-S290D725U930-4F0-1E-UDD-F4

### Luminous Intensity Polar Plot





TEST NUMBER: P331632-930

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**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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 | 27 |
| 1   | 93  | 89  | 85  | 82  | 83 | 79 | 76 | 74 | 62 | 60 | 58 | 46 | 45 | 43 | 31 | 30 | 30 | 23 |
| 2   | 85  | 78  | 72  | 67  | 75 | 70 | 65 | 61 | 55 | 51 | 48 | 41 | 38 | 37 | 28 | 26 | 25 | 20 |
| 3   | 77  | 68  | 62  | 56  | 69 | 61 | 56 | 51 | 48 | 44 | 41 | 36 | 33 | 31 | 25 | 23 | 22 | 17 |
| 4   | 71  | 61  | 53  | 48  | 63 | 55 | 48 | 43 | 43 | 39 | 35 | 32 | 29 | 27 | 22 | 21 | 19 | 15 |
| 5   | 65  | 54  | 46  | 41  | 58 | 49 | 42 | 37 | 38 | 34 | 30 | 29 | 26 | 23 | 20 | 18 | 17 | 13 |
| 6   | 60  | 48  | 41  | 35  | 53 | 44 | 37 | 32 | 35 | 30 | 26 | 26 | 23 | 21 | 18 | 16 | 15 | 12 |
| 7   | 55  | 44  | 36  | 31  | 49 | 39 | 33 | 28 | 31 | 27 | 23 | 24 | 21 | 18 | 17 | 15 | 13 | 10 |
| 8   | 51  | 40  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 22 | 19 | 16 | 15 | 13 | 12 | 9  |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 20 | 17 | 15 | 14 | 12 | 11 | 8  |
| 10  | 44  | 33  | 26  | 21  | 40 | 30 | 24 | 20 | 24 | 20 | 16 | 18 | 15 | 13 | 13 | 11 | 10 | 8  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6608 | 6608 | 6608 |
| 5°  | 6634 | 6525 | 6561 |
| 10° | 6583 | 6419 | 6365 |
| 15° | 6506 | 6228 | 6048 |
| 20° | 6402 | 5957 | 5658 |
| 25° | 6296 | 5649 | 5279 |
| 30° | 6145 | 5330 | 4793 |
| 35° | 6000 | 4987 | 4366 |
| 40° | 5855 | 4628 | 3872 |
| 45° | 5683 | 4229 | 3425 |
| 50° | 5506 | 3823 | 2987 |
| 55° | 5326 | 3386 | 2567 |
| 60° | 5118 | 2929 | 2131 |
| 65° | 4883 | 2460 | 1937 |
| 70° | 4598 | 2030 | 1780 |
| 75° | 4255 | 1847 | 1666 |
| 80° | 3756 | 1655 | 1516 |
| 85° | 2946 | 1297 | 1297 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.3   | 1.2       |
| 10°-20°   | 105.2  | 3.3       |
| 20°-30°   | 147.7  | 4.7       |
| 30°-40°   | 161.1  | 5.1       |
| 40°-50°   | 148.1  | 4.7       |
| 50°-60°   | 116.3  | 3.7       |
| 60°-70°   | 75.8   | 2.4       |
| 70°-80°   | 39.1   | 1.2       |
| 80°-90°   | 13.1   | 0.4       |
| 90°-100°  | 132.5  | 4.2       |
| 100°-110° | 449.7  | 14.3      |
| 110°-120° | 477.7  | 15.2      |
| 120°-130° | 393.2  | 12.5      |
| 130°-140° | 315.8  | 10.0      |
| 140°-150° | 238.6  | 7.6       |
| 150°-160° | 167.7  | 5.3       |
| 160°-170° | 98.7   | 3.1       |
| 170°-180° | 32.1   | 1.0       |
| 0°-30°    | 291.2  | 9.2       |
| 0°-40°    | 452.3  | 14.4      |
| 0°-60°    | 716.7  | 22.7      |
| 0°-90°    | 844.7  | 26.8      |
| 90°-120°  | 1059.9 | 33.6      |
| 90°-150°  | 2007.6 | 63.7      |
| 90°-180°  | 2306.0 | 73.2      |
| 0°-180°   | 3150.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 409 | 409   | 409 | 409   | 409 |      |
| 5°   | 409 | 407   | 403 | 406   | 405 | 39   |
| 15°  | 389 | 385   | 373 | 366   | 362 | 110  |
| 25°  | 353 | 341   | 317 | 302   | 296 | 162  |
| 35°  | 304 | 285   | 253 | 230   | 222 | 190  |
| 45°  | 249 | 223   | 185 | 160   | 150 | 192  |
| 55°  | 189 | 160   | 120 | 99    | 91  | 169  |
| 65°  | 128 | 98    | 64  | 52    | 51  | 127  |
| 75°  | 68  | 43    | 30  | 27    | 27  | 72   |
| 85°  | 16  | 8     | 7   | 7     | 7   | 19   |
| 90°  | 1   | 9     | 22  | 21    | 21  | 2    |
| 95°  | 22  | 55    | 250 | 94    | 73  | 24   |
| 105° | 78  | 117   | 472 | 844   | 718 | 83   |
| 115° | 137 | 173   | 395 | 815   | 945 | 136  |
| 125° | 191 | 226   | 380 | 661   | 767 | 170  |
| 135° | 224 | 268   | 375 | 555   | 635 | 173  |
| 145° | 256 | 294   | 374 | 464   | 507 | 161  |
| 155° | 291 | 314   | 363 | 410   | 426 | 134  |
| 165° | 317 | 327   | 347 | 368   | 374 | 89   |
| 175° | 331 | 331   | 334 | 338   | 337 | 31   |
| 180° | 331 | 331   | 331 | 331   | 331 |      |



TEST NUMBER: P331632-930

CATALOG NUMBER: S122RDIP-S290D725U930-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 |
| 2.5°   | 410.7 | 410.4 | 410.1 | 409.8 | 409.4 | 408.9 | 408.1 | 407.5 | 406.8 | 406.0 | 406.7 |
| 5°     | 409.3 | 408.9 | 408.5 | 408.1 | 407.6 | 406.8 | 405.8 | 404.7 | 403.7 | 402.6 | 403.3 |
| 7.5°   | 405.0 | 404.6 | 404.0 | 403.5 | 403.0 | 402.1 | 400.9 | 399.6 | 398.4 | 397.1 | 397.3 |
| 10°    | 401.5 | 400.9 | 400.3 | 399.7 | 399.2 | 398.0 | 396.4 | 394.8 | 393.1 | 391.5 | 391.3 |
| 12.5°  | 397.1 | 396.3 | 395.6 | 394.9 | 394.2 | 392.8 | 390.7 | 388.6 | 386.5 | 384.3 | 383.9 |
| 15°    | 389.2 | 388.3 | 387.4 | 386.5 | 385.6 | 383.8 | 381.0 | 378.2 | 375.4 | 372.6 | 371.0 |
| 17.5°  | 379.7 | 378.3 | 376.9 | 375.5 | 374.1 | 371.7 | 368.1 | 364.5 | 360.9 | 357.3 | 355.5 |
| 20°    | 372.6 | 371.0 | 369.3 | 367.6 | 366.0 | 363.1 | 359.0 | 354.9 | 350.8 | 346.7 | 344.6 |
| 22.5°  | 364.9 | 363.1 | 361.2 | 359.4 | 357.5 | 354.2 | 349.6 | 345.0 | 340.4 | 335.7 | 333.0 |
| 25°    | 353.4 | 350.7 | 348.1 | 345.4 | 342.8 | 338.8 | 333.3 | 327.9 | 322.5 | 317.1 | 313.6 |
| 27.5°  | 339.4 | 336.6 | 333.7 | 330.8 | 327.9 | 323.4 | 317.3 | 311.2 | 305.1 | 299.0 | 295.1 |
| 30°    | 329.6 | 326.5 | 323.3 | 320.2 | 317.2 | 312.3 | 305.7 | 299.1 | 292.5 | 285.9 | 281.8 |
| 32.5°  | 320.2 | 316.5 | 312.8 | 309.2 | 305.5 | 300.4 | 293.7 | 286.9 | 280.2 | 273.5 | 268.7 |
| 35°    | 304.4 | 300.3 | 296.0 | 291.9 | 287.6 | 281.9 | 274.7 | 267.4 | 260.2 | 253.0 | 247.8 |
| 37.5°  | 288.8 | 284.1 | 279.5 | 274.9 | 270.3 | 264.2 | 256.4 | 248.7 | 241.0 | 233.3 | 227.6 |
| 40°    | 277.8 | 272.9 | 267.9 | 262.9 | 258.0 | 251.6 | 243.6 | 235.6 | 227.6 | 219.6 | 213.8 |
| 42.5°  | 266.5 | 261.3 | 256.1 | 250.9 | 245.7 | 239.0 | 230.7 | 222.5 | 214.3 | 206.0 | 200.0 |
| 45°    | 248.9 | 243.4 | 237.8 | 232.4 | 226.8 | 219.7 | 211.1 | 202.4 | 193.8 | 185.2 | 179.4 |
| 47.5°  | 231.7 | 225.8 | 220.0 | 214.2 | 208.3 | 201.0 | 192.0 | 183.1 | 174.1 | 165.3 | 159.5 |
| 50°    | 219.2 | 213.4 | 207.6 | 201.7 | 195.9 | 188.4 | 179.4 | 170.3 | 161.3 | 152.2 | 146.5 |
| 52.5°  | 207.1 | 201.0 | 194.9 | 188.8 | 182.7 | 175.2 | 166.3 | 157.5 | 148.6 | 139.7 | 134.3 |
| 55°    | 189.2 | 182.9 | 176.4 | 170.0 | 163.5 | 156.0 | 147.0 | 138.1 | 129.2 | 120.3 | 115.4 |
| 57.5°  | 171.0 | 164.4 | 157.8 | 151.2 | 144.6 | 137.1 | 128.5 | 120.0 | 111.5 | 102.9 | 98.3  |
| 60°    | 158.5 | 152.0 | 145.4 | 138.8 | 132.2 | 124.7 | 116.2 | 107.7 | 99.2  | 90.7  | 86.5  |
| 62.5°  | 146.3 | 139.8 | 133.2 | 126.6 | 120.0 | 112.7 | 104.6 | 96.5  | 88.5  | 80.4  | 76.4  |
| 65°    | 127.8 | 121.1 | 114.5 | 107.8 | 101.1 | 94.1  | 86.7  | 79.2  | 71.8  | 64.4  | 61.6  |
| 67.5°  | 109.8 | 103.2 | 96.6  | 90.0  | 83.4  | 76.7  | 70.0  | 63.4  | 56.7  | 50.1  | 48.8  |
| 70°    | 97.4  | 91.0  | 84.5  | 78.2  | 71.7  | 65.7  | 60.0  | 54.3  | 48.7  | 43.0  | 42.2  |
| 72.5°  | 85.5  | 79.4  | 73.2  | 67.1  | 60.9  | 55.6  | 51.0  | 46.5  | 41.9  | 37.3  | 36.6  |
| 75°    | 68.2  | 62.4  | 56.7  | 50.9  | 45.1  | 40.8  | 38.0  | 35.2  | 32.4  | 29.6  | 29.0  |
| 77.5°  | 51.0  | 46.0  | 40.9  | 35.9  | 30.8  | 27.6  | 26.3  | 24.9  | 23.6  | 22.3  | 21.9  |
| 80°    | 40.4  | 36.2  | 32.0  | 27.8  | 23.6  | 21.0  | 20.2  | 19.4  | 18.6  | 17.8  | 17.4  |
| 82.5°  | 30.6  | 27.3  | 24.1  | 20.8  | 17.5  | 15.6  | 15.0  | 14.4  | 13.9  | 13.4  | 13.1  |
| 85°    | 15.9  | 14.2  | 12.5  | 10.8  | 9.0   | 8.0   | 7.7   | 7.5   | 7.3   | 7.0   | 7.0   |
| 87.5°  | 4.9   | 4.7   | 4.7   | 4.4   | 4.2   | 4.3   | 4.9   | 5.8   | 6.6   | 6.7   | 6.5   |
| 90°    | 0.7   | 2.5   | 5.1   | 6.4   | 7.7   | 9.5   | 12.7  | 17.2  | 21.0  | 21.7  | 21.0  |
| 92.5°  | 7.7   | 11.3  | 15.8  | 18.6  | 22.9  | 28.9  | 43.4  | 63.6  | 81.7  | 82.8  | 70.0  |
| 95°    | 22.3  | 24.9  | 31.2  | 36.9  | 47.1  | 62.5  | 91.8  | 147.2 | 221.2 | 249.8 | 218.6 |
| 97.5°  | 36.4  | 39.8  | 46.6  | 55.2  | 66.9  | 84.2  | 121.1 | 198.4 | 321.2 | 426.5 | 447.4 |
| 100°   | 49.1  | 51.0  | 56.7  | 66.9  | 79.7  | 97.5  | 131.3 | 209.0 | 346.7 | 503.4 | 595.3 |
| 102.5° | 60.8  | 62.2  | 67.9  | 78.1  | 91.4  | 109.3 | 140.5 | 209.5 | 337.0 | 506.1 | 650.3 |
| 105°   | 77.8  | 80.3  | 84.8  | 94.3  | 108.4 | 126.2 | 156.1 | 212.9 | 318.0 | 472.2 | 641.8 |
| 107.5° | 96.1  | 98.2  | 102.5 | 111.3 | 125.1 | 143.2 | 172.2 | 221.7 | 308.6 | 436.0 | 585.8 |
| 110°   | 108.4 | 110.9 | 114.7 | 123.0 | 136.4 | 154.9 | 182.9 | 228.8 | 306.6 | 418.7 | 550.7 |



TEST NUMBER: P331632-930

CATALOG NUMBER: S122RDIP-S290D725U930-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 119.5 | 122.1 | 126.5 | 134.2 | 147.1 | 166.1 | 193.1 | 236.4 | 307.0 | 407.5 | 526.2 |
| 115°   | 137.1 | 140.2 | 144.1 | 151.6 | 164.4 | 181.6 | 209.0 | 247.9 | 309.7 | 395.2 | 495.9 |
| 117.5° | 155.2 | 157.7 | 161.5 | 168.3 | 180.5 | 198.4 | 223.7 | 260.2 | 314.3 | 389.1 | 476.7 |
| 120°   | 166.3 | 168.9 | 172.7 | 178.5 | 191.2 | 209.0 | 233.9 | 268.3 | 317.4 | 385.6 | 466.5 |
| 122.5° | 177.1 | 179.1 | 182.9 | 189.1 | 201.9 | 220.3 | 243.6 | 275.5 | 321.0 | 383.5 | 457.9 |
| 125°   | 191.2 | 193.1 | 196.9 | 204.6 | 217.4 | 235.1 | 258.1 | 286.8 | 326.3 | 379.8 | 445.5 |
| 127.5° | 202.4 | 205.0 | 210.3 | 218.7 | 231.0 | 249.3 | 271.7 | 297.3 | 331.8 | 377.6 | 434.0 |
| 130°   | 209.0 | 211.6 | 217.9 | 226.9 | 239.6 | 257.5 | 279.8 | 304.0 | 335.9 | 376.7 | 426.4 |
| 132.5° | 215.2 | 218.3 | 225.1 | 234.6 | 247.8 | 265.6 | 286.9 | 310.6 | 340.0 | 376.2 | 420.3 |
| 135°   | 224.4 | 226.9 | 234.6 | 244.1 | 258.8 | 276.6 | 297.0 | 319.3 | 344.8 | 375.4 | 411.7 |
| 137.5° | 233.0 | 236.0 | 243.7 | 253.9 | 268.5 | 285.0 | 305.2 | 326.0 | 349.1 | 375.3 | 405.7 |
| 140°   | 239.6 | 242.1 | 249.8 | 260.0 | 274.0 | 290.7 | 309.7 | 329.5 | 351.1 | 374.7 | 402.2 |
| 142.5° | 246.2 | 248.3 | 255.4 | 265.6 | 279.2 | 294.7 | 313.3 | 332.6 | 352.7 | 374.7 | 398.6 |
| 145°   | 256.2 | 258.8 | 265.1 | 274.7 | 287.4 | 301.4 | 318.7 | 336.5 | 354.3 | 373.5 | 393.9 |
| 147.5° | 266.9 | 268.8 | 274.9 | 283.7 | 294.3 | 306.8 | 323.0 | 338.7 | 354.9 | 371.2 | 389.1 |
| 150°   | 274.0 | 276.0 | 281.0 | 289.3 | 298.9 | 310.4 | 325.1 | 339.7 | 354.3 | 369.7 | 384.9 |
| 152.5° | 281.2 | 282.1 | 287.1 | 294.4 | 303.5 | 314.0 | 327.1 | 340.2 | 353.4 | 367.1 | 381.4 |
| 155°   | 291.2 | 291.9 | 295.7 | 302.7 | 309.7 | 319.3 | 330.1 | 341.0 | 351.8 | 362.6 | 374.7 |
| 157.5° | 299.7 | 300.3 | 303.4 | 309.5 | 315.1 | 323.1 | 332.3 | 341.0 | 348.9 | 358.1 | 368.5 |
| 160°   | 305.2 | 305.9 | 308.4 | 313.6 | 318.7 | 325.6 | 333.3 | 341.0 | 347.3 | 355.0 | 363.9 |
| 162.5° | 310.9 | 310.5 | 313.1 | 317.2 | 321.7 | 327.2 | 333.9 | 340.5 | 345.8 | 352.5 | 359.8 |
| 165°   | 317.4 | 316.7 | 318.0 | 321.9 | 325.1 | 328.9 | 334.6 | 339.1 | 342.9 | 347.3 | 353.1 |
| 167.5° | 322.8 | 322.0 | 323.1 | 325.5 | 327.8 | 330.3 | 334.4 | 338.2 | 340.0 | 342.9 | 346.4 |
| 170°   | 326.3 | 325.1 | 325.6 | 327.6 | 328.9 | 330.8 | 333.9 | 337.1 | 338.4 | 340.3 | 342.9 |
| 172.5° | 328.3 | 327.6 | 327.2 | 329.1 | 329.9 | 331.3 | 333.5 | 335.6 | 336.4 | 337.3 | 339.3 |
| 175°   | 330.8 | 330.1 | 329.5 | 330.8 | 330.8 | 331.4 | 332.6 | 333.9 | 333.3 | 333.9 | 334.6 |
| 177.5° | 331.9 | 330.9 | 330.4 | 331.4 | 331.4 | 331.4 | 331.9 | 333.0 | 331.9 | 331.4 | 331.9 |
| 180°   | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 |



TEST NUMBER: P331632-930

CATALOG NUMBER: S122RDIP-S290D725U930-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 |
| 2.5°   | 407.3 | 408.0 | 408.6 | 408.9 | 408.8 | 408.6 | 408.5 | 408.4 |
| 5°     | 404.1 | 404.8 | 405.5 | 405.8 | 405.5 | 405.3 | 405.0 | 404.8 |
| 7.5°   | 397.5 | 397.8 | 397.9 | 397.9 | 397.5 | 397.0 | 396.6 | 396.2 |
| 10°    | 391.0 | 390.8 | 390.5 | 390.1 | 389.6 | 389.1 | 388.7 | 388.2 |
| 12.5°  | 383.5 | 383.0 | 382.6 | 382.0 | 381.2 | 380.3 | 379.5 | 378.7 |
| 15°    | 369.5 | 367.9 | 366.3 | 365.2 | 364.4 | 363.5 | 362.6 | 361.8 |
| 17.5°  | 353.6 | 351.7 | 349.9 | 348.3 | 346.8 | 345.4 | 344.0 | 342.6 |
| 20°    | 342.6 | 340.5 | 338.4 | 336.5 | 334.7 | 332.9 | 331.1 | 329.3 |
| 22.5°  | 330.4 | 327.8 | 325.1 | 323.1 | 321.7 | 320.4 | 319.0 | 317.7 |
| 25°    | 310.3 | 306.9 | 303.5 | 301.3 | 300.0 | 298.7 | 297.5 | 296.3 |
| 27.5°  | 291.1 | 287.1 | 283.2 | 280.3 | 278.3 | 276.4 | 274.4 | 272.5 |
| 30°    | 277.5 | 273.4 | 269.1 | 266.0 | 263.7 | 261.5 | 259.3 | 257.1 |
| 32.5°  | 263.9 | 259.1 | 254.3 | 250.9 | 248.8 | 246.7 | 244.6 | 242.6 |
| 35°    | 242.6 | 237.4 | 232.2 | 228.7 | 226.9 | 225.1 | 223.3 | 221.5 |
| 37.5°  | 221.8 | 216.1 | 210.4 | 206.5 | 204.5 | 202.4 | 200.3 | 198.2 |
| 40°    | 208.0 | 202.1 | 196.2 | 192.2 | 190.1 | 188.0 | 185.8 | 183.7 |
| 42.5°  | 193.9 | 187.8 | 181.8 | 177.8 | 175.7 | 173.7 | 171.5 | 169.5 |
| 45°    | 173.5 | 167.6 | 161.8 | 157.9 | 156.0 | 153.9 | 152.0 | 150.0 |
| 47.5°  | 153.6 | 147.8 | 142.0 | 138.2 | 136.4 | 134.6 | 132.8 | 131.0 |
| 50°    | 140.9 | 135.2 | 129.5 | 125.8 | 124.1 | 122.4 | 120.6 | 118.9 |
| 52.5°  | 128.8 | 123.4 | 117.9 | 114.3 | 112.8 | 111.1 | 109.5 | 107.9 |
| 55°    | 110.5 | 105.6 | 100.6 | 97.3  | 95.8  | 94.2  | 92.7  | 91.2  |
| 57.5°  | 93.8  | 89.3  | 84.8  | 81.9  | 80.6  | 79.2  | 77.9  | 76.6  |
| 60°    | 82.3  | 78.2  | 73.9  | 71.2  | 69.9  | 68.6  | 67.3  | 66.0  |
| 62.5°  | 72.4  | 68.4  | 64.4  | 62.0  | 61.1  | 60.4  | 59.6  | 58.8  |
| 65°    | 58.9  | 56.0  | 53.2  | 51.7  | 51.4  | 51.2  | 51.0  | 50.7  |
| 67.5°  | 47.5  | 46.2  | 44.9  | 44.2  | 43.9  | 43.6  | 43.4  | 43.1  |
| 70°    | 41.3  | 40.5  | 39.7  | 39.1  | 38.7  | 38.4  | 38.1  | 37.7  |
| 72.5°  | 36.0  | 35.2  | 34.6  | 34.2  | 33.9  | 33.8  | 33.5  | 33.3  |
| 75°    | 28.5  | 27.9  | 27.3  | 27.0  | 26.9  | 26.8  | 26.7  | 26.7  |
| 77.5°  | 21.5  | 21.2  | 20.9  | 20.7  | 20.5  | 20.4  | 20.3  | 20.1  |
| 80°    | 17.1  | 16.8  | 16.5  | 16.3  | 16.3  | 16.3  | 16.3  | 16.3  |
| 82.5°  | 13.0  | 12.7  | 12.6  | 12.5  | 12.5  | 12.5  | 12.5  | 12.5  |
| 85°    | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |
| 87.5°  | 6.3   | 6.0   | 6.2   | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   |
| 90°    | 20.4  | 19.2  | 20.4  | 21.0  | 21.0  | 21.0  | 21.0  | 21.0  |
| 92.5°  | 55.6  | 47.7  | 42.3  | 38.4  | 37.8  | 35.8  | 36.4  | 35.3  |
| 95°    | 167.0 | 128.1 | 101.3 | 87.3  | 79.0  | 73.9  | 72.0  | 72.6  |
| 97.5°  | 389.6 | 318.8 | 249.8 | 203.8 | 173.3 | 157.7 | 148.4 | 143.0 |
| 100°   | 581.9 | 502.9 | 415.6 | 338.4 | 285.5 | 258.1 | 239.6 | 228.1 |
| 102.5° | 707.8 | 690.0 | 626.1 | 544.4 | 486.9 | 440.1 | 417.0 | 401.5 |
| 105°   | 774.4 | 846.4 | 854.7 | 833.6 | 794.1 | 754.6 | 727.2 | 718.3 |
| 107.5° | 726.4 | 834.9 | 901.2 | 932.1 | 937.0 | 934.8 | 929.4 | 917.5 |
| 110°   | 685.1 | 799.2 | 880.8 | 933.0 | 960.4 | 972.6 | 978.3 | 977.6 |





TEST NUMBER: P331632-930

CATALOG NUMBER: S122RDIP-S290D725U930-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 647.4 | 756.8 | 844.1 | 904.0 | 942.1 | 962.4 | 973.2 | 976.6 |
| 115°   | 601.0 | 699.1 | 782.6 | 848.2 | 893.5 | 922.8 | 939.4 | 945.2 |
| 117.5° | 566.1 | 652.2 | 728.0 | 789.5 | 835.7 | 866.7 | 884.1 | 888.9 |
| 120°   | 548.7 | 627.8 | 695.3 | 753.3 | 797.9 | 827.9 | 846.4 | 852.7 |
| 122.5° | 535.0 | 607.4 | 671.3 | 723.7 | 763.8 | 793.2 | 809.7 | 815.0 |
| 125°   | 514.9 | 580.6 | 636.7 | 684.4 | 721.5 | 745.7 | 761.6 | 766.7 |
| 127.5° | 495.2 | 554.6 | 607.5 | 651.6 | 683.9 | 706.5 | 720.3 | 724.4 |
| 130°   | 482.4 | 537.3 | 587.6 | 629.7 | 660.9 | 682.6 | 695.3 | 700.4 |
| 132.5° | 470.2 | 521.0 | 567.2 | 606.7 | 637.5 | 659.1 | 670.8 | 675.4 |
| 135°   | 453.1 | 495.2 | 537.3 | 572.9 | 600.4 | 621.4 | 632.8 | 635.4 |
| 137.5° | 439.5 | 474.7 | 508.1 | 539.2 | 564.2 | 582.3 | 592.3 | 596.1 |
| 140°   | 430.8 | 461.5 | 490.7 | 518.8 | 539.2 | 555.7 | 565.3 | 569.2 |
| 142.5° | 423.7 | 449.7 | 474.9 | 498.4 | 517.8 | 532.8 | 541.4 | 542.1 |
| 145°   | 413.6 | 434.6 | 454.4 | 472.9 | 488.2 | 499.0 | 505.4 | 507.3 |
| 147.5° | 405.9 | 422.4 | 437.8 | 451.3 | 464.0 | 472.6 | 477.0 | 478.1 |
| 150°   | 400.2 | 414.3 | 427.6 | 439.1 | 448.7 | 456.3 | 460.2 | 460.8 |
| 152.5° | 394.6 | 407.6 | 419.0 | 428.9 | 436.4 | 443.0 | 445.9 | 446.0 |
| 155°   | 386.9 | 397.1 | 406.6 | 413.6 | 420.6 | 425.1 | 427.6 | 426.4 |
| 157.5° | 377.8 | 386.4 | 394.4 | 399.8 | 404.8 | 408.5 | 409.7 | 409.7 |
| 160°   | 372.2 | 379.2 | 386.2 | 390.7 | 395.2 | 398.4 | 398.9 | 398.9 |
| 162.5° | 366.6 | 372.6 | 378.5 | 382.0 | 386.5 | 388.7 | 389.3 | 388.7 |
| 165°   | 358.2 | 362.6 | 367.1 | 369.7 | 372.2 | 374.7 | 374.7 | 374.1 |
| 167.5° | 350.2 | 353.6 | 356.6 | 359.0 | 360.1 | 361.5 | 361.3 | 360.6 |
| 170°   | 346.1 | 348.0 | 350.5 | 351.8 | 352.5 | 354.3 | 353.7 | 352.5 |
| 172.5° | 341.4 | 342.9 | 345.0 | 345.7 | 346.3 | 347.2 | 346.6 | 345.8 |
| 175°   | 336.5 | 337.1 | 337.8 | 338.4 | 338.4 | 339.1 | 338.4 | 337.1 |
| 177.5° | 333.0 | 333.0 | 333.5 | 333.5 | 333.5 | 333.5 | 333.0 | 331.9 |
| 180°   | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 | 331.4 |

(END OF REPORT)