

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: P331333-927

Luminaire Tested: **SA2XXDIP-C675D330U927-4F0-1E-UDD-D**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331333-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C675D330U927-4F0-1E-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**

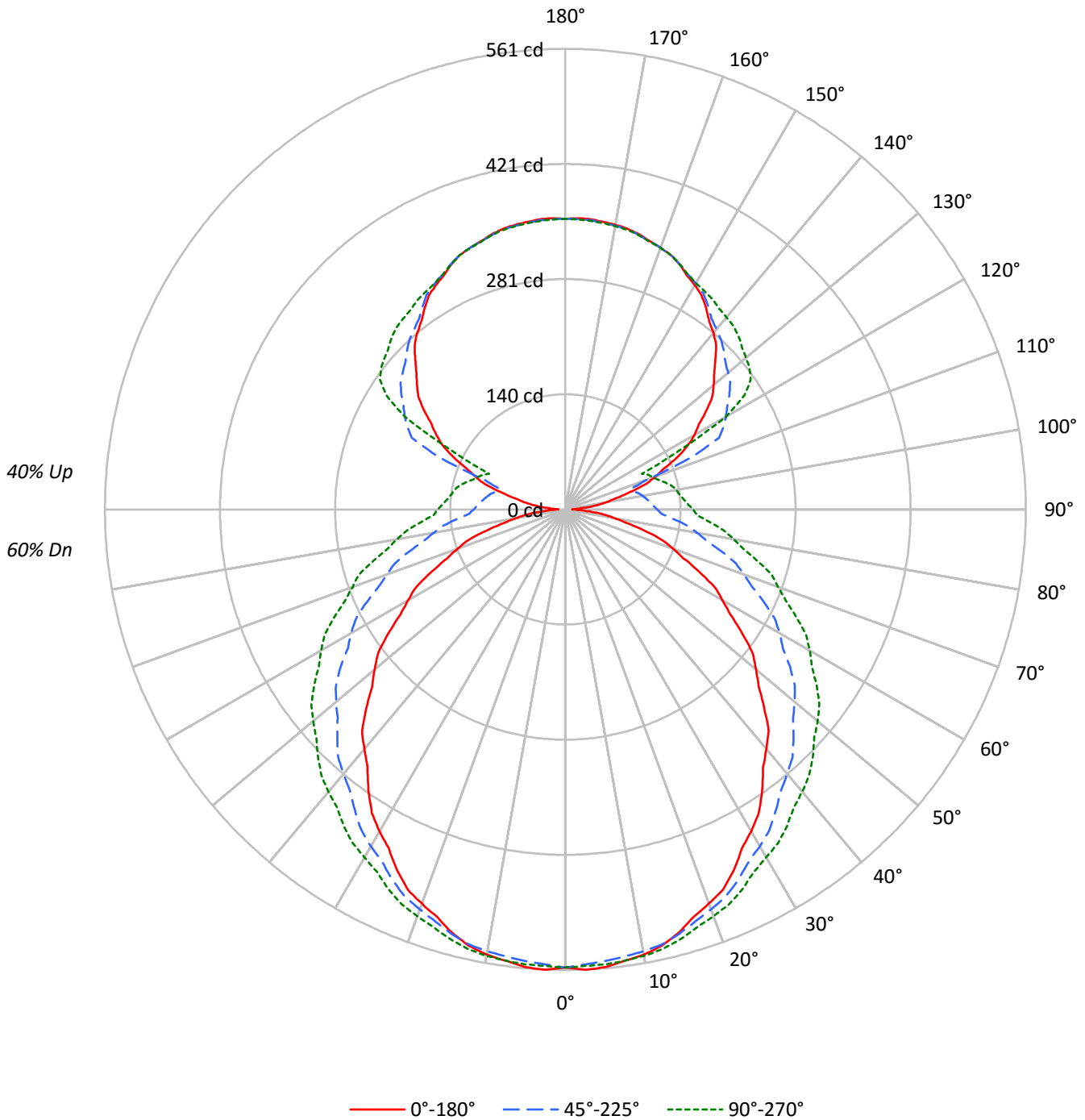
Lumens per Lamp: N/A  
Luminaire Lumens: 3167.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

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: P331333-927  
CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P331333-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-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°  | 9009 | 9009 | 9009 |
| 5°  | 9053 | 8672 | 8638 |
| 10° | 8996 | 8417 | 8321 |
| 15° | 8873 | 8146 | 7988 |
| 20° | 8716 | 7854 | 7665 |
| 25° | 8561 | 7573 | 7372 |
| 30° | 8343 | 7286 | 7079 |
| 35° | 8122 | 7007 | 6870 |
| 40° | 7890 | 6771 | 6665 |
| 45° | 7670 | 6558 | 6488 |
| 50° | 7431 | 6366 | 6313 |
| 55° | 7184 | 6161 | 6135 |
| 60° | 6882 | 5948 | 5948 |
| 65° | 6564 | 5697 | 5724 |
| 70° | 6211 | 5427 | 5485 |
| 75° | 5759 | 5163 | 5263 |
| 80° | 5048 | 4895 | 5040 |
| 85° | 4369 | 4658 | 4864 |



TEST NUMBER: P331333-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.9   | 1.7       |
| 10°-20°   | 151.6  | 4.8       |
| 20°-30°   | 229.8  | 7.3       |
| 30°-40°   | 279.8  | 8.8       |
| 40°-50°   | 301.1  | 9.5       |
| 50°-60°   | 292.4  | 9.2       |
| 60°-70°   | 255.3  | 8.1       |
| 70°-80°   | 196.5  | 6.2       |
| 80°-90°   | 132.8  | 4.2       |
| 90°-100°  | 102.7  | 3.2       |
| 100°-110° | 109.7  | 3.5       |
| 110°-120° | 159.6  | 5.0       |
| 120°-130° | 215.5  | 6.8       |
| 130°-140° | 213.5  | 6.7       |
| 140°-150° | 190.6  | 6.0       |
| 150°-160° | 151.8  | 4.8       |
| 160°-170° | 97.8   | 3.1       |
| 170°-180° | 33.7   | 1.1       |
| 0°-30°    | 434.3  | 13.7      |
| 0°-40°    | 714.1  | 22.5      |
| 0°-60°    | 1307.5 | 41.3      |
| 0°-90°    | 1892.1 | 59.7      |
| 90°-120°  | 371.9  | 11.7      |
| 90°-150°  | 991.5  | 31.3      |
| 90°-180°  | 1275.0 | 40.3      |
| 0°-180°   | 3167.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 558 | 558   | 558 | 558   | 558 |      |
| 5°   | 560 | 557   | 552 | 557   | 556 | 53   |
| 15°  | 534 | 535   | 535 | 542   | 542 | 150  |
| 25°  | 485 | 491   | 498 | 507   | 510 | 223  |
| 35°  | 418 | 432   | 447 | 464   | 471 | 261  |
| 45°  | 343 | 365   | 393 | 417   | 426 | 265  |
| 55°  | 263 | 293   | 334 | 362   | 374 | 235  |
| 65°  | 180 | 220   | 267 | 299   | 310 | 178  |
| 75°  | 100 | 145   | 196 | 230   | 242 | 105  |
| 85°  | 29  | 79    | 131 | 164   | 176 | 31   |
| 90°  | 8   | 58    | 112 | 144   | 156 | 6    |
| 95°  | 23  | 54    | 103 | 134   | 144 | 25   |
| 105° | 82  | 110   | 85  | 115   | 126 | 88   |
| 115° | 150 | 165   | 206 | 117   | 103 | 148  |
| 125° | 210 | 215   | 244 | 267   | 276 | 187  |
| 135° | 258 | 263   | 273 | 292   | 298 | 200  |
| 145° | 299 | 299   | 303 | 310   | 312 | 187  |
| 155° | 329 | 327   | 330 | 331   | 329 | 152  |
| 165° | 347 | 345   | 346 | 348   | 346 | 98   |
| 175° | 355 | 353   | 354 | 355   | 353 | 34   |
| 180° | 354 | 354   | 354 | 354   | 354 |      |



TEST NUMBER: P331333-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 |
| 2.5°   | 561.3 | 560.8 | 560.4 | 559.9 | 559.5 | 558.8 | 557.8 | 556.7 | 555.8 | 554.8 | 555.5 |
| 5°     | 559.6 | 559.0 | 558.6 | 558.0 | 557.5 | 556.7 | 555.6 | 554.5 | 553.4 | 552.3 | 553.4 |
| 7.5°   | 554.6 | 554.2 | 553.9 | 553.5 | 553.2 | 552.5 | 551.8 | 550.9 | 550.1 | 549.3 | 550.6 |
| 10°    | 550.7 | 550.3 | 550.0 | 549.6 | 549.3 | 548.8 | 548.3 | 547.8 | 547.2 | 546.7 | 548.1 |
| 12.5°  | 544.2 | 544.3 | 544.4 | 544.5 | 544.5 | 544.4 | 544.0 | 543.6 | 543.2 | 542.8 | 544.2 |
| 15°    | 533.8 | 534.1 | 534.5 | 534.8 | 535.2 | 535.4 | 535.4 | 535.4 | 535.4 | 535.4 | 536.9 |
| 17.5°  | 520.1 | 520.9 | 521.7 | 522.4 | 523.2 | 523.9 | 524.4 | 525.0 | 525.5 | 526.2 | 527.8 |
| 20°    | 511.1 | 512.0 | 512.9 | 513.8 | 514.7 | 515.5 | 516.2 | 517.0 | 517.7 | 518.4 | 520.4 |
| 22.5°  | 501.4 | 502.4 | 503.5 | 504.5 | 505.6 | 506.6 | 507.6 | 508.6 | 509.6 | 510.6 | 512.6 |
| 25°    | 485.2 | 486.5 | 487.7 | 489.0 | 490.3 | 491.7 | 493.3 | 495.0 | 496.5 | 498.1 | 500.3 |
| 27.5°  | 465.8 | 467.9 | 469.9 | 472.0 | 474.0 | 476.0 | 477.9 | 479.8 | 481.7 | 483.6 | 486.3 |
| 30°    | 452.9 | 455.2 | 457.6 | 459.9 | 462.2 | 464.5 | 466.9 | 469.2 | 471.6 | 473.9 | 476.7 |
| 32.5°  | 438.6 | 441.2 | 443.9 | 446.5 | 449.2 | 451.9 | 454.6 | 457.3 | 460.1 | 462.9 | 466.2 |
| 35°    | 418.1 | 421.1 | 424.2 | 427.2 | 430.3 | 433.6 | 437.0 | 440.4 | 443.8 | 447.2 | 451.1 |
| 37.5°  | 395.8 | 399.3 | 402.8 | 406.3 | 409.9 | 413.8 | 418.3 | 422.7 | 427.1 | 431.5 | 435.9 |
| 40°    | 380.9 | 384.8 | 388.8 | 392.8 | 396.7 | 401.1 | 406.0 | 410.8 | 415.7 | 420.5 | 425.2 |
| 42.5°  | 366.7 | 370.6 | 374.5 | 378.5 | 382.5 | 387.2 | 392.8 | 398.4 | 403.9 | 409.6 | 414.6 |
| 45°    | 342.9 | 347.8 | 352.6 | 357.4 | 362.3 | 367.9 | 374.1 | 380.5 | 386.7 | 393.0 | 398.6 |
| 47.5°  | 319.4 | 324.7 | 330.0 | 335.3 | 340.6 | 346.9 | 354.3 | 361.6 | 369.0 | 376.4 | 382.2 |
| 50°    | 303.2 | 308.9 | 314.4 | 320.0 | 325.5 | 332.4 | 340.5 | 348.6 | 356.6 | 364.7 | 370.8 |
| 52.5°  | 287.7 | 293.6 | 299.4 | 305.3 | 311.2 | 318.4 | 326.9 | 335.4 | 343.9 | 352.4 | 358.7 |
| 55°    | 262.8 | 269.3 | 275.8 | 282.3 | 288.7 | 296.6 | 305.9 | 315.3 | 324.6 | 334.0 | 340.5 |
| 57.5°  | 238.2 | 245.6 | 252.9 | 260.2 | 267.4 | 275.8 | 285.3 | 294.9 | 304.4 | 313.9 | 320.9 |
| 60°    | 220.8 | 228.5 | 236.2 | 244.0 | 251.7 | 260.7 | 270.9 | 281.1 | 291.4 | 301.7 | 308.5 |
| 62.5°  | 205.3 | 213.3 | 221.3 | 229.3 | 237.3 | 246.4 | 256.7 | 266.9 | 277.2 | 287.4 | 294.7 |
| 65°    | 179.5 | 188.3 | 197.2 | 206.0 | 214.8 | 224.4 | 235.0 | 245.7 | 256.3 | 266.9 | 274.3 |
| 67.5°  | 155.9 | 165.1 | 174.4 | 183.5 | 192.7 | 202.7 | 213.6 | 224.4 | 235.3 | 246.1 | 253.6 |
| 70°    | 139.1 | 148.5 | 157.8 | 167.2 | 176.5 | 186.7 | 197.9 | 209.0 | 220.1 | 231.3 | 239.0 |
| 72.5°  | 123.6 | 133.2 | 142.8 | 152.5 | 162.1 | 172.5 | 183.9 | 195.1 | 206.4 | 217.7 | 225.3 |
| 75°    | 99.5  | 109.6 | 119.6 | 129.7 | 139.7 | 150.5 | 162.0 | 173.5 | 185.0 | 196.5 | 204.2 |
| 77.5°  | 76.2  | 86.7  | 97.3  | 107.7 | 118.3 | 129.4 | 141.1 | 152.8 | 164.5 | 176.1 | 183.9 |
| 80°    | 60.7  | 71.6  | 82.5  | 93.6  | 104.5 | 115.8 | 127.5 | 139.2 | 150.8 | 162.6 | 170.1 |
| 82.5°  | 47.7  | 58.5  | 69.3  | 80.2  | 91.0  | 102.3 | 114.2 | 126.0 | 137.8 | 149.6 | 157.2 |
| 85°    | 29.2  | 40.2  | 51.4  | 62.5  | 73.7  | 85.0  | 96.5  | 108.0 | 119.5 | 131.0 | 138.6 |
| 87.5°  | 15.9  | 26.8  | 37.5  | 48.4  | 59.3  | 70.4  | 82.1  | 93.6  | 105.2 | 116.8 | 124.2 |
| 90°    | 8.3   | 19.4  | 30.4  | 41.5  | 52.5  | 64.0  | 76.0  | 87.9  | 99.9  | 111.9 | 119.4 |
| 92.5°  | 12.6  | 22.3  | 31.9  | 41.6  | 51.2  | 61.7  | 73.0  | 84.3  | 95.5  | 106.9 | 114.1 |
| 95°    | 23.1  | 29.7  | 36.3  | 42.9  | 49.4  | 58.3  | 69.5  | 80.6  | 91.8  | 103.0 | 110.1 |
| 97.5°  | 38.7  | 41.0  | 43.2  | 45.4  | 47.6  | 54.3  | 65.6  | 76.8  | 88.2  | 99.4  | 106.3 |
| 100°   | 51.0  | 49.8  | 48.7  | 47.5  | 46.4  | 51.3  | 62.3  | 73.4  | 84.4  | 95.5  | 102.6 |
| 102.5° | 63.8  | 68.3  | 72.7  | 77.2  | 81.6  | 84.6  | 86.3  | 88.0  | 89.7  | 91.3  | 98.5  |
| 105°   | 81.9  | 88.8  | 95.8  | 102.7 | 109.6 | 110.0 | 103.8 | 97.6  | 91.3  | 85.2  | 92.1  |
| 107.5° | 103.4 | 108.9 | 114.5 | 120.1 | 125.6 | 123.5 | 113.8 | 104.2 | 94.5  | 84.8  | 90.2  |
| 110°   | 116.7 | 121.5 | 126.3 | 131.1 | 135.9 | 134.4 | 126.8 | 119.1 | 111.5 | 103.9 | 103.9 |



TEST NUMBER: P331333-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 129.8 | 133.9 | 138.0 | 142.0 | 146.2 | 150.4 | 154.6 | 158.9 | 163.3 | 167.5 | 152.6 |
| 115°   | 150.5 | 153.4 | 156.4 | 159.3 | 162.3 | 168.5 | 178.0 | 187.5 | 197.0 | 206.5 | 185.6 |
| 117.5° | 168.2 | 170.6 | 172.9 | 175.3 | 177.7 | 183.2 | 191.5 | 200.0 | 208.5 | 216.9 | 215.9 |
| 120°   | 181.7 | 183.3 | 184.9 | 186.4 | 188.0 | 192.9 | 201.1 | 209.3 | 217.5 | 225.8 | 231.5 |
| 122.5° | 193.2 | 194.4 | 195.6 | 196.8 | 198.0 | 202.5 | 210.3 | 218.2 | 226.1 | 233.9 | 239.2 |
| 125°   | 209.8 | 210.6 | 211.4 | 212.1 | 212.8 | 216.6 | 223.4 | 230.3 | 237.1 | 243.9 | 249.2 |
| 127.5° | 225.7 | 226.3 | 227.0 | 227.6 | 228.2 | 231.3 | 236.7 | 242.2 | 247.6 | 253.1 | 258.1 |
| 130°   | 235.8 | 236.5 | 237.2 | 237.9 | 238.7 | 241.2 | 245.6 | 250.0 | 254.4 | 258.8 | 263.7 |
| 132.5° | 246.0 | 246.5 | 247.2 | 247.7 | 248.3 | 250.4 | 254.0 | 257.5 | 261.0 | 264.6 | 269.3 |
| 135°   | 258.5 | 259.4 | 260.3 | 261.2 | 262.1 | 263.7 | 266.0 | 268.4 | 270.7 | 273.0 | 277.3 |
| 137.5° | 272.0 | 272.6 | 273.1 | 273.8 | 274.3 | 275.4 | 276.7 | 278.1 | 279.5 | 280.8 | 284.7 |
| 140°   | 280.7 | 281.1 | 281.3 | 281.6 | 281.9 | 282.5 | 283.5 | 284.5 | 285.4 | 286.5 | 289.9 |
| 142.5° | 288.1 | 288.4 | 288.6 | 288.8 | 289.1 | 289.5 | 290.3 | 291.1 | 291.9 | 292.7 | 295.5 |
| 145°   | 298.9 | 298.9 | 298.8 | 298.7 | 298.7 | 299.1 | 300.1 | 301.1 | 302.1 | 303.0 | 304.5 |
| 147.5° | 309.0 | 308.8 | 308.6 | 308.3 | 308.2 | 308.5 | 309.4 | 310.5 | 311.4 | 312.4 | 312.8 |
| 150°   | 315.5 | 315.1 | 314.7 | 314.3 | 313.9 | 314.3 | 315.1 | 316.1 | 317.0 | 317.9 | 318.2 |
| 152.5° | 321.1 | 320.7 | 320.2 | 319.7 | 319.3 | 319.5 | 320.4 | 321.2 | 322.1 | 323.0 | 323.3 |
| 155°   | 329.2 | 328.6 | 328.1 | 327.6 | 327.1 | 327.2 | 327.9 | 328.5 | 329.2 | 329.9 | 330.3 |
| 157.5° | 335.4 | 335.0 | 334.5 | 334.1 | 333.7 | 333.7 | 334.2 | 334.7 | 335.2 | 335.6 | 336.0 |
| 160°   | 339.1 | 338.8 | 338.4 | 338.1 | 337.8 | 337.8 | 338.1 | 338.4 | 338.8 | 339.1 | 339.5 |
| 162.5° | 342.4 | 342.1 | 341.7 | 341.4 | 341.0 | 341.0 | 341.3 | 341.6 | 341.9 | 342.2 | 342.6 |
| 165°   | 346.8 | 346.5 | 346.1 | 345.8 | 345.5 | 345.4 | 345.5 | 345.7 | 345.9 | 346.0 | 346.4 |
| 167.5° | 350.1 | 349.7 | 349.4 | 349.0 | 348.7 | 348.6 | 348.8 | 349.0 | 349.1 | 349.3 | 349.7 |
| 170°   | 352.0 | 351.6 | 351.3 | 350.9 | 350.5 | 350.5 | 350.5 | 350.7 | 350.8 | 350.9 | 351.3 |
| 172.5° | 353.2 | 352.8 | 352.4 | 352.1 | 351.8 | 351.6 | 351.8 | 351.9 | 352.0 | 352.1 | 352.5 |
| 175°   | 354.7 | 354.3 | 353.9 | 353.6 | 353.2 | 353.0 | 353.2 | 353.2 | 353.4 | 353.5 | 353.9 |
| 177.5° | 355.0 | 354.7 | 354.3 | 354.0 | 353.7 | 353.6 | 353.6 | 353.7 | 353.7 | 353.8 | 354.1 |
| 180°   | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 |



TEST NUMBER: P331333-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 | 558.0 |
| 2.5°   | 556.2 | 556.9 | 557.6 | 557.9 | 557.5 | 557.3 | 557.0 | 556.7 |
| 5°     | 554.5 | 555.6 | 556.7 | 557.1 | 556.9 | 556.7 | 556.6 | 556.3 |
| 7.5°   | 551.8 | 553.2 | 554.4 | 555.0 | 554.8 | 554.6 | 554.4 | 554.3 |
| 10°    | 549.5 | 551.0 | 552.5 | 553.0 | 552.9 | 552.7 | 552.5 | 552.3 |
| 12.5°  | 545.7 | 547.1 | 548.6 | 549.1 | 549.0 | 548.8 | 548.7 | 548.4 |
| 15°    | 538.6 | 540.2 | 541.9 | 542.6 | 542.4 | 542.2 | 542.0 | 541.9 |
| 17.5°  | 529.5 | 531.2 | 532.9 | 533.8 | 533.8 | 533.8 | 533.8 | 533.8 |
| 20°    | 522.4 | 524.3 | 526.2 | 527.3 | 527.3 | 527.3 | 527.3 | 527.3 |
| 22.5°  | 514.6 | 516.6 | 518.5 | 519.7 | 519.9 | 520.2 | 520.5 | 520.8 |
| 25°    | 502.5 | 504.6 | 506.8 | 508.1 | 508.7 | 509.2 | 509.8 | 510.3 |
| 27.5°  | 489.1 | 491.8 | 494.6 | 496.1 | 496.5 | 496.9 | 497.3 | 497.6 |
| 30°    | 479.7 | 482.5 | 485.4 | 487.1 | 487.7 | 488.2 | 488.7 | 489.3 |
| 32.5°  | 469.5 | 472.9 | 476.1 | 478.2 | 479.3 | 480.2 | 481.2 | 482.1 |
| 35°    | 455.1 | 459.1 | 463.0 | 465.6 | 466.9 | 468.2 | 469.4 | 470.6 |
| 37.5°  | 440.3 | 444.7 | 449.1 | 451.9 | 453.3 | 454.6 | 455.9 | 457.2 |
| 40°    | 429.8 | 434.5 | 439.2 | 442.4 | 443.9 | 445.6 | 447.2 | 448.9 |
| 42.5°  | 419.7 | 424.8 | 429.9 | 433.3 | 434.9 | 436.6 | 438.2 | 439.7 |
| 45°    | 404.2 | 409.7 | 415.3 | 419.0 | 420.8 | 422.6 | 424.4 | 426.2 |
| 47.5°  | 388.0 | 393.9 | 399.7 | 403.5 | 405.5 | 407.5 | 409.5 | 411.5 |
| 50°    | 376.9 | 383.0 | 389.2 | 393.2 | 395.2 | 397.2 | 399.1 | 401.1 |
| 52.5°  | 365.0 | 371.2 | 377.5 | 381.7 | 383.7 | 385.9 | 388.0 | 390.1 |
| 55°    | 346.9 | 353.4 | 359.9 | 364.2 | 366.6 | 368.9 | 371.3 | 373.6 |
| 57.5°  | 327.9 | 334.9 | 341.8 | 346.5 | 348.9 | 351.3 | 353.6 | 356.0 |
| 60°    | 315.3 | 322.1 | 329.0 | 333.7 | 336.1 | 338.7 | 341.2 | 343.7 |
| 62.5°  | 301.9 | 309.2 | 316.5 | 321.3 | 323.6 | 326.0 | 328.4 | 330.7 |
| 65°    | 281.6 | 289.0 | 296.4 | 301.2 | 303.6 | 305.9 | 308.2 | 310.5 |
| 67.5°  | 261.0 | 268.5 | 275.9 | 280.9 | 283.3 | 285.7 | 288.2 | 290.7 |
| 70°    | 246.8 | 254.4 | 262.2 | 267.1 | 269.3 | 271.5 | 273.6 | 275.8 |
| 72.5°  | 232.9 | 240.4 | 248.0 | 253.1 | 255.7 | 258.3 | 260.9 | 263.5 |
| 75°    | 212.0 | 219.7 | 227.4 | 232.4 | 234.8 | 237.1 | 239.5 | 241.8 |
| 77.5°  | 191.5 | 199.2 | 206.9 | 212.0 | 214.5 | 217.1 | 219.5 | 222.0 |
| 80°    | 177.6 | 185.2 | 192.7 | 197.8 | 200.3 | 202.8 | 205.3 | 207.9 |
| 82.5°  | 164.7 | 172.2 | 179.8 | 184.7 | 187.1 | 189.5 | 191.9 | 194.2 |
| 85°    | 146.1 | 153.7 | 161.2 | 166.2 | 168.7 | 171.3 | 173.8 | 176.3 |
| 87.5°  | 131.6 | 139.0 | 146.4 | 151.2 | 153.6 | 155.9 | 158.2 | 160.5 |
| 90°    | 126.8 | 134.3 | 141.8 | 146.6 | 148.9 | 151.1 | 153.4 | 155.7 |
| 92.5°  | 121.3 | 128.4 | 135.6 | 140.4 | 142.6 | 144.8 | 147.0 | 149.2 |
| 95°    | 117.2 | 124.3 | 131.4 | 136.0 | 138.2 | 140.2 | 142.4 | 144.4 |
| 97.5°  | 113.2 | 120.0 | 126.9 | 131.4 | 133.6 | 135.9 | 138.0 | 140.2 |
| 100°   | 109.7 | 116.8 | 123.9 | 128.5 | 130.6 | 132.7 | 134.8 | 136.8 |
| 102.5° | 105.5 | 112.6 | 119.8 | 124.4 | 126.5 | 128.7 | 130.8 | 132.9 |
| 105°   | 99.0  | 105.9 | 112.8 | 117.4 | 119.6 | 121.8 | 124.0 | 126.2 |
| 107.5° | 95.6  | 101.0 | 106.4 | 110.2 | 112.4 | 114.6 | 116.8 | 119.0 |
| 110°   | 104.0 | 104.0 | 104.1 | 105.2 | 107.4 | 109.6 | 111.9 | 114.1 |





TEST NUMBER: P331333-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 137.5 | 122.6 | 107.5 | 101.1 | 103.2 | 105.4 | 107.6 | 109.7 |
| 115°   | 164.6 | 143.7 | 122.7 | 111.1 | 109.1 | 106.9 | 104.8 | 102.7 |
| 117.5° | 214.8 | 213.7 | 212.7 | 206.4 | 194.7 | 183.1 | 171.4 | 159.9 |
| 120°   | 237.2 | 242.9 | 248.6 | 248.6 | 242.9 | 237.2 | 231.5 | 225.8 |
| 122.5° | 244.5 | 249.9 | 255.2 | 257.9 | 258.1 | 258.3 | 258.5 | 258.7 |
| 125°   | 254.4 | 259.7 | 264.9 | 268.5 | 270.2 | 272.0 | 273.8 | 275.6 |
| 127.5° | 263.2 | 268.2 | 273.2 | 276.6 | 278.1 | 279.8 | 281.4 | 283.0 |
| 130°   | 268.7 | 273.6 | 278.6 | 281.7 | 283.1 | 284.5 | 285.9 | 287.2 |
| 132.5° | 273.9 | 278.7 | 283.4 | 286.5 | 287.8 | 289.1 | 290.6 | 291.9 |
| 135°   | 281.6 | 286.0 | 290.3 | 293.2 | 294.5 | 295.8 | 297.1 | 298.5 |
| 137.5° | 288.6 | 292.4 | 296.3 | 298.7 | 299.8 | 300.8 | 301.8 | 302.9 |
| 140°   | 293.2 | 296.6 | 300.0 | 302.1 | 302.9 | 303.6 | 304.4 | 305.2 |
| 142.5° | 298.3 | 301.0 | 303.8 | 305.5 | 306.2 | 306.8 | 307.4 | 308.1 |
| 145°   | 305.9 | 307.4 | 309.0 | 310.0 | 310.5 | 311.2 | 311.8 | 312.4 |
| 147.5° | 313.2 | 313.6 | 314.1 | 314.4 | 314.6 | 314.8 | 315.0 | 315.2 |
| 150°   | 318.5 | 318.9 | 319.2 | 319.2 | 319.0 | 318.7 | 318.4 | 318.1 |
| 152.5° | 323.7 | 324.0 | 324.3 | 324.3 | 323.9 | 323.6 | 323.2 | 322.8 |
| 155°   | 330.6 | 330.9 | 331.3 | 331.2 | 330.7 | 330.3 | 329.9 | 329.4 |
| 157.5° | 336.4 | 336.8 | 337.2 | 337.2 | 336.7 | 336.3 | 335.8 | 335.4 |
| 160°   | 339.8 | 340.2 | 340.5 | 340.5 | 340.1 | 339.7 | 339.3 | 338.9 |
| 162.5° | 342.9 | 343.3 | 343.7 | 343.7 | 343.2 | 342.7 | 342.2 | 341.7 |
| 165°   | 346.8 | 347.2 | 347.6 | 347.6 | 347.2 | 346.8 | 346.4 | 346.0 |
| 167.5° | 350.1 | 350.5 | 350.9 | 350.8 | 350.3 | 349.7 | 349.3 | 348.7 |
| 170°   | 351.7 | 352.1 | 352.5 | 352.4 | 352.0 | 351.4 | 350.9 | 350.4 |
| 172.5° | 352.9 | 353.3 | 353.7 | 353.7 | 353.2 | 352.7 | 352.1 | 351.6 |
| 175°   | 354.3 | 354.7 | 355.1 | 355.0 | 354.4 | 353.9 | 353.2 | 352.7 |
| 177.5° | 354.4 | 354.7 | 355.1 | 355.0 | 354.6 | 354.2 | 353.8 | 353.4 |
| 180°   | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 |

(END OF REPORT)