

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: P331882-927

Luminaire Tested: **S123DIP-S340D585U927-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331882-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S340D585U927-4F0-1E-UDD-F4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2798.1 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

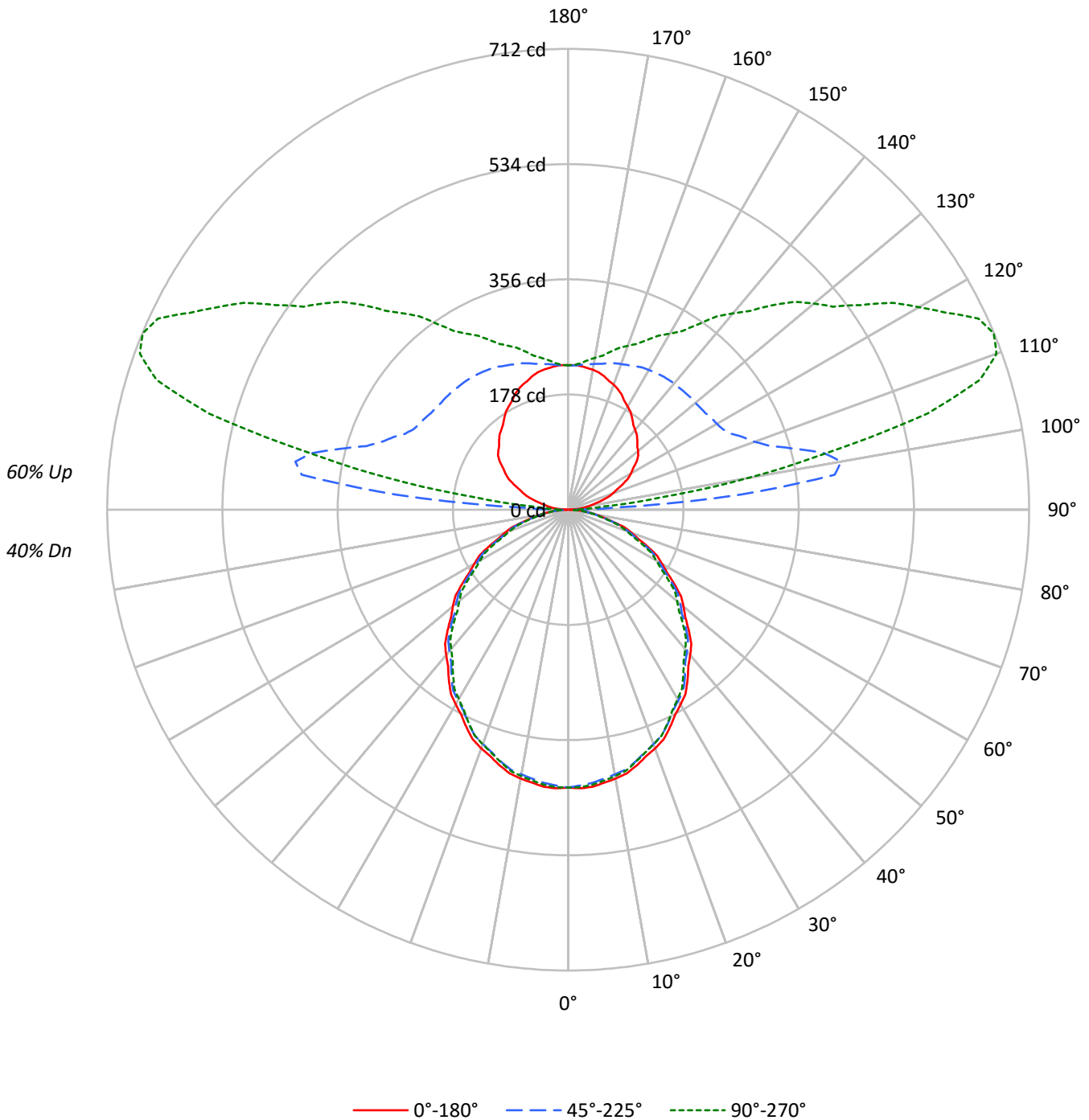
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331882-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F4

### Luminous Intensity Polar Plot





TEST NUMBER: P331882-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F4

**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   | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 40 |
| 1   | 95  | 91  | 87  | 84  | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 53 | 51 | 41 | 40 | 39 | 34 |
| 2   | 87  | 80  | 74  | 68  | 79 | 73 | 67 | 63 | 60 | 56 | 53 | 47 | 45 | 43 | 36 | 35 | 33 | 28 |
| 3   | 79  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 52 | 48 | 44 | 42 | 39 | 36 | 32 | 30 | 28 | 24 |
| 4   | 72  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 37 | 34 | 31 | 29 | 26 | 24 | 20 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 42 | 36 | 32 | 33 | 30 | 27 | 26 | 23 | 21 | 18 |
| 6   | 61  | 49  | 41  | 36  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 21 | 19 | 15 |
| 7   | 56  | 44  | 37  | 31  | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 27 | 24 | 21 | 21 | 19 | 16 | 14 |
| 8   | 52  | 40  | 33  | 27  | 48 | 37 | 30 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 20 | 17 | 15 | 12 |
| 9   | 49  | 37  | 29  | 24  | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |
| 10  | 45  | 34  | 26  | 22  | 41 | 31 | 25 | 20 | 26 | 21 | 18 | 21 | 17 | 15 | 17 | 14 | 12 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4621 | 4621 | 4621 |
| 5°  | 4643 | 4578 | 4611 |
| 10° | 4611 | 4539 | 4568 |
| 15° | 4558 | 4488 | 4496 |
| 20° | 4495 | 4415 | 4418 |
| 25° | 4410 | 4327 | 4318 |
| 30° | 4318 | 4230 | 4197 |
| 35° | 4221 | 4127 | 4075 |
| 40° | 4118 | 4014 | 3953 |
| 45° | 4007 | 3911 | 3815 |
| 50° | 3893 | 3783 | 3677 |
| 55° | 3748 | 3652 | 3539 |
| 60° | 3599 | 3496 | 3384 |
| 65° | 3469 | 3326 | 3224 |
| 70° | 3276 | 3138 | 2996 |
| 75° | 2994 | 2886 | 2766 |
| 80° | 2703 | 2585 | 2566 |
| 85° | 2371 | 2285 | 2186 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.4   | 1.4       |
| 10°-20°   | 114.2  | 4.1       |
| 20°-30°   | 168.7  | 6.0       |
| 30°-40°   | 197.0  | 7.0       |
| 40°-50°   | 198.1  | 7.1       |
| 50°-60°   | 174.0  | 6.2       |
| 60°-70°   | 129.6  | 4.6       |
| 70°-80°   | 73.8   | 2.6       |
| 80°-90°   | 22.9   | 0.8       |
| 90°-100°  | 124.2  | 4.4       |
| 100°-110° | 351.7  | 12.6      |
| 110°-120° | 346.0  | 12.4      |
| 120°-130° | 276.0  | 9.9       |
| 130°-140° | 217.6  | 7.8       |
| 140°-150° | 162.4  | 5.8       |
| 150°-160° | 113.2  | 4.0       |
| 160°-170° | 66.5   | 2.4       |
| 170°-180° | 21.6   | 0.8       |
| 0°-30°    | 323.3  | 11.6      |
| 0°-40°    | 520.3  | 18.6      |
| 0°-60°    | 892.4  | 31.9      |
| 0°-90°    | 1118.8 | 40.0      |
| 90°-120°  | 822.0  | 29.4      |
| 90°-150°  | 1478.0 | 52.8      |
| 90°-180°  | 1679.0 | 60.0      |
| 0°-180°   | 2798.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 429 | 429   | 429 | 429   | 429 |      |
| 5°   | 430 | 428   | 424 | 427   | 427 | 41   |
| 15°  | 409 | 407   | 403 | 405   | 404 | 115  |
| 25°  | 371 | 369   | 364 | 365   | 364 | 171  |
| 35°  | 321 | 319   | 314 | 312   | 310 | 201  |
| 45°  | 263 | 262   | 257 | 253   | 251 | 203  |
| 55°  | 200 | 199   | 195 | 191   | 189 | 179  |
| 65°  | 136 | 134   | 131 | 128   | 127 | 134  |
| 75°  | 72  | 70    | 69  | 68    | 66  | 77   |
| 85°  | 19  | 18    | 18  | 18    | 18  | 21   |
| 90°  | 1   | 5     | 11  | 13    | 13  | 2    |
| 95°  | 15  | 50    | 268 | 78    | 52  | 17   |
| 105° | 52  | 78    | 363 | 635   | 575 | 56   |
| 115° | 93  | 115   | 278 | 609   | 699 | 92   |
| 125° | 129 | 152   | 259 | 470   | 551 | 114  |
| 135° | 151 | 180   | 256 | 387   | 447 | 117  |
| 145° | 172 | 197   | 252 | 317   | 349 | 108  |
| 155° | 196 | 211   | 244 | 278   | 290 | 90   |
| 165° | 214 | 220   | 234 | 248   | 252 | 60   |
| 175° | 223 | 223   | 225 | 228   | 227 | 21   |
| 180° | 223 | 223   | 223 | 223   | 223 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 |
| 2.5°   | 430.8 | 430.5 | 430.2 | 430.0 | 429.7 | 429.2 | 428.5 | 427.8 | 427.1 | 426.4 | 427.0 |
| 5°     | 429.7 | 429.2 | 428.8 | 428.4 | 428.0 | 427.4 | 426.4 | 425.6 | 424.6 | 423.7 | 424.5 |
| 7.5°   | 425.5 | 425.0 | 424.6 | 424.2 | 423.8 | 423.1 | 422.2 | 421.3 | 420.3 | 419.4 | 420.1 |
| 10°    | 421.9 | 421.5 | 421.0 | 420.6 | 420.3 | 419.5 | 418.4 | 417.4 | 416.3 | 415.3 | 416.0 |
| 12.5°  | 417.2 | 416.8 | 416.5 | 416.1 | 415.8 | 415.1 | 414.2 | 413.1 | 412.1 | 411.1 | 411.7 |
| 15°    | 409.0 | 408.7 | 408.3 | 408.0 | 407.7 | 406.9 | 405.9 | 404.8 | 403.8 | 402.7 | 403.4 |
| 17.5°  | 399.4 | 399.0 | 398.6 | 398.2 | 397.8 | 397.0 | 395.9 | 394.9 | 393.8 | 392.8 | 393.2 |
| 20°    | 392.4 | 391.9 | 391.4 | 390.9 | 390.4 | 389.6 | 388.6 | 387.5 | 386.4 | 385.4 | 385.7 |
| 22.5°  | 384.4 | 383.9 | 383.4 | 382.9 | 382.5 | 381.7 | 380.6 | 379.5 | 378.4 | 377.4 | 377.6 |
| 25°    | 371.3 | 370.8 | 370.3 | 369.9 | 369.4 | 368.6 | 367.5 | 366.5 | 365.4 | 364.3 | 364.4 |
| 27.5°  | 357.4 | 356.9 | 356.4 | 355.9 | 355.5 | 354.7 | 353.6 | 352.4 | 351.3 | 350.1 | 350.1 |
| 30°    | 347.4 | 346.9 | 346.5 | 346.1 | 345.7 | 344.9 | 343.8 | 342.6 | 341.5 | 340.3 | 340.3 |
| 32.5°  | 337.3 | 336.8 | 336.2 | 335.6 | 335.2 | 334.4 | 333.5 | 332.6 | 331.8 | 330.9 | 330.4 |
| 35°    | 321.2 | 320.7 | 320.1 | 319.6 | 319.2 | 318.4 | 317.3 | 316.2 | 315.2 | 314.1 | 313.6 |
| 37.5°  | 304.6 | 304.0 | 303.3 | 302.7 | 302.1 | 301.3 | 300.2 | 299.0 | 298.0 | 296.9 | 296.4 |
| 40°    | 293.1 | 292.6 | 292.1 | 291.6 | 291.1 | 290.3 | 289.1 | 288.0 | 286.8 | 285.7 | 285.0 |
| 42.5°  | 281.5 | 281.0 | 280.4 | 279.9 | 279.3 | 278.5 | 277.3 | 276.2 | 275.0 | 273.9 | 273.2 |
| 45°    | 263.2 | 262.8 | 262.5 | 262.2 | 261.9 | 261.2 | 260.1 | 259.0 | 257.9 | 256.9 | 256.0 |
| 47.5°  | 244.9 | 244.5 | 244.0 | 243.5 | 243.0 | 242.3 | 241.3 | 240.3 | 239.3 | 238.3 | 237.3 |
| 50°    | 232.5 | 232.1 | 231.7 | 231.3 | 230.9 | 230.1 | 229.1 | 228.1 | 227.0 | 225.9 | 225.0 |
| 52.5°  | 219.5 | 219.3 | 219.0 | 218.7 | 218.4 | 217.7 | 216.6 | 215.5 | 214.4 | 213.2 | 212.5 |
| 55°    | 199.7 | 199.6 | 199.6 | 199.5 | 199.4 | 198.8 | 197.7 | 196.6 | 195.6 | 194.6 | 193.6 |
| 57.5°  | 180.8 | 180.5 | 180.2 | 180.0 | 179.7 | 179.1 | 178.2 | 177.4 | 176.6 | 175.7 | 174.9 |
| 60°    | 167.2 | 167.2 | 167.1 | 167.0 | 166.9 | 166.4 | 165.3 | 164.4 | 163.4 | 162.4 | 161.7 |
| 62.5°  | 155.1 | 154.9 | 154.7 | 154.5 | 154.2 | 153.7 | 152.7 | 151.7 | 150.7 | 149.7 | 149.0 |
| 65°    | 136.2 | 135.8 | 135.4 | 135.0 | 134.6 | 134.0 | 133.2 | 132.3 | 131.5 | 130.6 | 130.0 |
| 67.5°  | 116.2 | 115.8 | 115.5 | 115.1 | 114.8 | 114.2 | 113.7 | 113.0 | 112.4 | 111.8 | 111.2 |
| 70°    | 104.1 | 103.6 | 103.1 | 102.6 | 102.1 | 101.6 | 101.2 | 100.6 | 100.1 | 99.7  | 99.1  |
| 72.5°  | 91.4  | 91.0  | 90.7  | 90.3  | 89.9  | 89.5  | 89.0  | 88.4  | 87.9  | 87.3  | 86.7  |
| 75°    | 72.0  | 71.6  | 71.3  | 71.0  | 70.7  | 70.3  | 70.1  | 69.9  | 69.6  | 69.4  | 69.0  |
| 77.5°  | 54.7  | 54.6  | 54.4  | 54.3  | 54.0  | 53.8  | 53.6  | 53.2  | 52.9  | 52.6  | 52.4  |
| 80°    | 43.6  | 43.3  | 43.1  | 42.9  | 42.5  | 42.4  | 42.2  | 42.1  | 41.9  | 41.7  | 41.6  |
| 82.5°  | 32.6  | 32.6  | 32.6  | 32.5  | 32.4  | 32.4  | 32.3  | 32.3  | 32.3  | 32.2  | 32.1  |
| 85°    | 19.2  | 19.0  | 18.9  | 18.7  | 18.5  | 18.5  | 18.5  | 18.5  | 18.5  | 18.5  | 18.3  |
| 87.5°  | 7.8   | 7.8   | 7.8   | 7.9   | 7.9   | 7.9   | 8.2   | 8.3   | 8.6   | 8.8   | 8.6   |
| 90°    | 0.9   | 1.8   | 2.7   | 4.0   | 5.0   | 5.9   | 7.2   | 8.6   | 9.9   | 11.3  | 10.9  |
| 92.5°  | 5.6   | 8.3   | 12.1  | 15.6  | 19.4  | 26.1  | 37.9  | 57.4  | 76.4  | 69.5  | 52.4  |
| 95°    | 15.4  | 16.7  | 21.7  | 29.4  | 41.1  | 58.7  | 97.1  | 164.5 | 238.6 | 267.9 | 217.3 |
| 97.5°  | 26.2  | 26.7  | 30.6  | 37.2  | 48.8  | 67.9  | 104.6 | 180.5 | 304.0 | 415.3 | 444.3 |
| 100°   | 33.4  | 33.9  | 37.1  | 43.4  | 54.2  | 71.9  | 103.5 | 170.3 | 289.1 | 427.9 | 516.9 |
| 102.5° | 41.0  | 41.8  | 44.7  | 50.6  | 60.4  | 76.5  | 104.9 | 161.7 | 267.5 | 404.4 | 520.5 |
| 105°   | 52.4  | 53.8  | 56.5  | 61.9  | 70.5  | 84.5  | 108.9 | 155.4 | 240.8 | 363.3 | 493.0 |
| 107.5° | 64.5  | 65.9  | 68.5  | 73.8  | 81.9  | 94.9  | 116.3 | 155.0 | 223.9 | 326.9 | 444.7 |
| 110°   | 73.2  | 74.5  | 76.8  | 81.8  | 89.4  | 102.1 | 122.5 | 156.8 | 217.3 | 306.3 | 414.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 81.1  | 82.5  | 84.8  | 89.8  | 97.4  | 109.7 | 128.6 | 160.4 | 213.7 | 292.6 | 387.9 |
| 115°   | 92.6  | 94.4  | 97.1  | 101.6 | 109.3 | 121.5 | 138.7 | 166.3 | 212.4 | 277.9 | 356.1 |
| 117.5° | 104.1 | 106.2 | 108.4 | 112.6 | 121.2 | 132.5 | 149.5 | 174.0 | 213.2 | 269.2 | 336.8 |
| 120°   | 112.1 | 113.4 | 115.7 | 120.2 | 128.8 | 140.1 | 156.3 | 179.8 | 214.6 | 265.2 | 326.7 |
| 122.5° | 118.9 | 120.3 | 122.6 | 127.4 | 135.6 | 147.7 | 163.6 | 185.3 | 217.1 | 262.7 | 318.4 |
| 125°   | 128.8 | 129.7 | 132.4 | 137.4 | 145.9 | 158.1 | 174.0 | 193.8 | 220.9 | 259.4 | 307.7 |
| 127.5° | 136.3 | 137.6 | 141.0 | 146.0 | 155.5 | 167.7 | 183.0 | 200.9 | 225.3 | 257.7 | 298.3 |
| 130°   | 141.0 | 142.4 | 146.4 | 151.8 | 161.3 | 173.5 | 188.4 | 205.6 | 228.1 | 256.7 | 293.3 |
| 132.5° | 144.6 | 146.3 | 150.8 | 157.2 | 166.8 | 178.6 | 193.1 | 209.9 | 230.4 | 256.3 | 288.5 |
| 135°   | 150.9 | 152.7 | 157.7 | 164.5 | 174.0 | 186.2 | 200.2 | 215.6 | 233.6 | 255.7 | 282.4 |
| 137.5° | 156.9 | 158.8 | 163.7 | 170.9 | 180.3 | 191.5 | 205.0 | 219.7 | 235.8 | 254.8 | 277.1 |
| 140°   | 160.9 | 163.1 | 167.6 | 174.8 | 183.9 | 195.2 | 208.3 | 221.9 | 237.2 | 254.4 | 273.8 |
| 142.5° | 165.2 | 167.1 | 172.0 | 178.5 | 187.5 | 198.1 | 210.8 | 224.0 | 238.3 | 253.7 | 270.9 |
| 145°   | 172.1 | 173.5 | 177.6 | 184.3 | 192.0 | 202.4 | 214.2 | 226.4 | 239.0 | 252.5 | 267.0 |
| 147.5° | 179.2 | 180.0 | 184.0 | 189.9 | 197.3 | 206.1 | 216.9 | 227.8 | 239.0 | 250.9 | 263.2 |
| 150°   | 183.9 | 184.3 | 188.0 | 193.8 | 200.2 | 208.3 | 218.7 | 228.1 | 239.0 | 249.4 | 260.7 |
| 152.5° | 188.6 | 188.7 | 192.3 | 197.5 | 203.0 | 210.8 | 219.8 | 228.9 | 238.0 | 247.6 | 257.9 |
| 155°   | 195.7 | 195.7 | 198.4 | 202.9 | 207.9 | 214.2 | 221.9 | 229.1 | 236.8 | 244.5 | 253.5 |
| 157.5° | 201.2 | 201.6 | 203.7 | 207.8 | 212.0 | 216.9 | 223.0 | 229.6 | 235.2 | 241.6 | 248.6 |
| 160°   | 205.6 | 205.6 | 207.4 | 211.0 | 214.2 | 218.7 | 224.1 | 229.6 | 234.5 | 239.5 | 245.3 |
| 162.5° | 208.8 | 208.8 | 210.3 | 213.2 | 215.9 | 219.8 | 224.5 | 229.2 | 233.1 | 237.3 | 242.1 |
| 165°   | 213.7 | 213.3 | 214.2 | 216.4 | 218.2 | 221.4 | 225.0 | 228.1 | 230.9 | 234.1 | 237.7 |
| 167.5° | 217.5 | 216.9 | 217.3 | 219.0 | 220.3 | 222.3 | 224.9 | 227.4 | 228.7 | 230.8 | 233.5 |
| 170°   | 219.6 | 218.7 | 219.1 | 220.5 | 221.4 | 222.3 | 224.6 | 226.4 | 227.3 | 228.6 | 230.9 |
| 172.5° | 221.0 | 220.5 | 220.6 | 221.6 | 222.1 | 222.7 | 224.6 | 226.0 | 226.2 | 226.8 | 228.4 |
| 175°   | 222.8 | 222.3 | 221.9 | 222.8 | 222.8 | 223.2 | 224.1 | 225.0 | 224.6 | 224.6 | 225.5 |
| 177.5° | 223.6 | 223.2 | 222.8 | 223.2 | 223.2 | 223.2 | 223.6 | 224.3 | 223.6 | 223.2 | 223.6 |
| 180°   | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 |
| 2.5°   | 427.6 | 428.3 | 429.0 | 429.3 | 429.2 | 429.1 | 429.0 | 429.0 |
| 5°     | 425.4 | 426.2 | 427.1 | 427.4 | 427.2 | 427.1 | 426.8 | 426.7 |
| 7.5°   | 420.9 | 421.6 | 422.3 | 422.6 | 422.6 | 422.5 | 422.4 | 422.2 |
| 10°    | 416.8 | 417.5 | 418.2 | 418.5 | 418.4 | 418.2 | 418.0 | 417.9 |
| 12.5°  | 412.2 | 412.7 | 413.3 | 413.5 | 413.4 | 413.3 | 413.2 | 413.1 |
| 15°    | 404.0 | 404.6 | 405.4 | 405.4 | 404.9 | 404.4 | 403.9 | 403.5 |
| 17.5°  | 393.6 | 394.1 | 394.6 | 394.7 | 394.5 | 394.3 | 394.2 | 394.0 |
| 20°    | 386.0 | 386.3 | 386.7 | 386.7 | 386.4 | 386.2 | 386.0 | 385.7 |
| 22.5°  | 377.9 | 378.2 | 378.4 | 378.4 | 378.1 | 377.8 | 377.5 | 377.2 |
| 25°    | 364.5 | 364.6 | 364.6 | 364.6 | 364.3 | 364.1 | 363.8 | 363.6 |
| 27.5°  | 350.2 | 350.3 | 350.3 | 350.2 | 349.9 | 349.6 | 349.3 | 349.0 |
| 30°    | 340.3 | 340.3 | 340.3 | 340.0 | 339.5 | 338.9 | 338.3 | 337.7 |
| 32.5°  | 329.9 | 329.5 | 329.1 | 328.7 | 328.4 | 328.0 | 327.7 | 327.4 |
| 35°    | 313.1 | 312.7 | 312.1 | 311.7 | 311.3 | 310.9 | 310.5 | 310.1 |
| 37.5°  | 295.7 | 295.2 | 294.5 | 294.1 | 293.9 | 293.6 | 293.3 | 293.1 |
| 40°    | 284.4 | 283.8 | 283.0 | 282.6 | 282.3 | 281.9 | 281.6 | 281.3 |
| 42.5°  | 272.6 | 271.9 | 271.2 | 270.8 | 270.5 | 270.1 | 269.8 | 269.4 |
| 45°    | 254.9 | 254.0 | 252.9 | 252.3 | 251.8 | 251.4 | 251.0 | 250.6 |
| 47.5°  | 236.4 | 235.4 | 234.4 | 233.8 | 233.4 | 233.1 | 232.7 | 232.3 |
| 50°    | 224.1 | 223.2 | 222.3 | 221.6 | 221.1 | 220.6 | 220.1 | 219.6 |
| 52.5°  | 211.7 | 210.9 | 210.1 | 209.5 | 209.0 | 208.5 | 208.0 | 207.6 |
| 55°    | 192.7 | 191.8 | 190.9 | 190.3 | 189.9 | 189.4 | 189.0 | 188.6 |
| 57.5°  | 174.1 | 173.3 | 172.5 | 171.8 | 171.3 | 170.9 | 170.4 | 169.9 |
| 60°    | 161.0 | 160.2 | 159.5 | 158.9 | 158.4 | 158.0 | 157.6 | 157.2 |
| 62.5°  | 148.2 | 147.5 | 146.8 | 146.2 | 146.0 | 145.7 | 145.4 | 145.1 |
| 65°    | 129.4 | 128.7 | 128.0 | 127.6 | 127.4 | 127.1 | 126.8 | 126.6 |
| 67.5°  | 110.6 | 110.0 | 109.5 | 109.0 | 108.7 | 108.3 | 108.0 | 107.7 |
| 70°    | 98.5  | 97.9  | 97.4  | 96.9  | 96.5  | 96.1  | 95.6  | 95.2  |
| 72.5°  | 86.3  | 85.7  | 85.2  | 84.8  | 84.7  | 84.4  | 84.2  | 84.0  |
| 75°    | 68.6  | 68.1  | 67.7  | 67.4  | 67.2  | 66.9  | 66.7  | 66.5  |
| 77.5°  | 52.0  | 51.8  | 51.5  | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  |
| 80°    | 41.5  | 41.4  | 41.4  | 41.4  | 41.4  | 41.4  | 41.4  | 41.4  |
| 82.5°  | 32.0  | 31.8  | 31.7  | 31.5  | 31.5  | 31.4  | 31.4  | 31.3  |
| 85°    | 18.1  | 18.0  | 17.8  | 17.7  | 17.7  | 17.7  | 17.7  | 17.7  |
| 87.5°  | 8.6   | 8.6   | 8.6   | 8.8   | 8.7   | 8.8   | 9.0   | 8.8   |
| 90°    | 11.3  | 11.7  | 12.2  | 13.1  | 12.7  | 13.1  | 13.5  | 13.1  |
| 92.5°  | 38.0  | 30.2  | 26.7  | 24.3  | 23.5  | 22.1  | 22.6  | 21.8  |
| 95°    | 162.6 | 110.3 | 86.3  | 70.0  | 61.5  | 57.4  | 54.2  | 52.4  |
| 97.5°  | 405.5 | 324.8 | 266.5 | 212.5 | 179.1 | 158.8 | 146.6 | 142.7 |
| 100°   | 532.7 | 496.1 | 443.2 | 379.1 | 333.4 | 300.5 | 282.9 | 283.3 |
| 102.5° | 575.0 | 573.9 | 543.0 | 502.3 | 466.8 | 440.7 | 426.0 | 415.6 |
| 105°   | 587.4 | 632.6 | 641.2 | 629.4 | 608.6 | 591.4 | 577.0 | 574.7 |
| 107.5° | 551.8 | 625.2 | 664.7 | 680.8 | 681.2 | 675.4 | 670.5 | 666.4 |
| 110°   | 517.8 | 600.9 | 657.9 | 689.5 | 702.2 | 705.8 | 704.9 | 703.9 |





TEST NUMBER: P331882-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 484.2 | 569.1 | 633.0 | 673.6 | 696.7 | 708.0 | 711.4 | 711.5 |
| 115°   | 439.7 | 518.2 | 584.7 | 633.9 | 667.8 | 687.7 | 696.7 | 699.0 |
| 117.5° | 407.3 | 475.2 | 534.9 | 584.9 | 620.2 | 642.9 | 656.0 | 659.0 |
| 120°   | 390.4 | 451.4 | 505.6 | 551.3 | 586.9 | 612.3 | 623.1 | 625.8 |
| 122.5° | 377.0 | 432.2 | 482.4 | 524.8 | 556.6 | 579.3 | 591.3 | 594.7 |
| 125°   | 359.2 | 408.4 | 451.9 | 488.0 | 516.9 | 536.8 | 548.1 | 551.3 |
| 127.5° | 343.6 | 387.6 | 426.7 | 459.6 | 485.4 | 502.3 | 512.5 | 515.5 |
| 130°   | 333.9 | 374.5 | 411.1 | 441.9 | 465.9 | 482.1 | 491.6 | 495.2 |
| 132.5° | 324.9 | 362.3 | 396.3 | 425.6 | 448.1 | 464.4 | 472.8 | 475.3 |
| 135°   | 312.7 | 344.8 | 374.1 | 399.9 | 422.0 | 435.5 | 443.7 | 446.9 |
| 137.5° | 301.6 | 327.9 | 353.2 | 375.5 | 394.1 | 407.8 | 414.7 | 416.8 |
| 140°   | 295.1 | 318.1 | 339.8 | 359.2 | 376.4 | 389.0 | 396.2 | 395.8 |
| 142.5° | 288.9 | 308.7 | 327.5 | 344.4 | 359.0 | 370.3 | 376.8 | 376.3 |
| 145°   | 281.5 | 296.4 | 310.9 | 324.0 | 335.3 | 344.8 | 348.4 | 349.3 |
| 147.5° | 275.4 | 287.2 | 299.0 | 308.2 | 316.8 | 323.2 | 326.7 | 327.0 |
| 150°   | 271.1 | 281.5 | 291.0 | 299.6 | 306.3 | 311.3 | 314.0 | 314.0 |
| 152.5° | 267.1 | 276.1 | 284.5 | 291.6 | 296.9 | 301.6 | 303.2 | 303.2 |
| 155°   | 261.2 | 268.4 | 275.2 | 280.6 | 284.6 | 288.3 | 289.1 | 289.6 |
| 157.5° | 254.8 | 260.9 | 266.2 | 270.4 | 273.9 | 276.6 | 277.3 | 277.3 |
| 160°   | 251.2 | 256.2 | 260.7 | 263.9 | 267.0 | 269.7 | 269.7 | 269.3 |
| 162.5° | 246.9 | 251.1 | 255.3 | 258.1 | 260.2 | 262.5 | 262.5 | 262.1 |
| 165°   | 241.3 | 244.0 | 247.2 | 249.4 | 251.2 | 253.0 | 252.5 | 252.5 |
| 167.5° | 236.4 | 238.4 | 240.3 | 241.9 | 242.7 | 244.0 | 243.5 | 243.5 |
| 170°   | 233.1 | 234.5 | 236.3 | 237.2 | 237.7 | 238.6 | 238.1 | 238.1 |
| 172.5° | 230.3 | 231.2 | 232.7 | 233.2 | 233.3 | 234.2 | 233.5 | 233.1 |
| 175°   | 226.4 | 226.8 | 227.8 | 227.8 | 227.8 | 228.1 | 227.8 | 227.3 |
| 177.5° | 223.9 | 224.3 | 224.7 | 224.7 | 224.3 | 224.7 | 223.9 | 223.9 |
| 180°   | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 | 223.2 |

(END OF REPORT)