

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: P333186-840

Luminaire Tested: **S125DIP-S610D810U840-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333186-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S610D810U840-4F0-1E-UDD-F4  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 610 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5462.9 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: General Diffuse

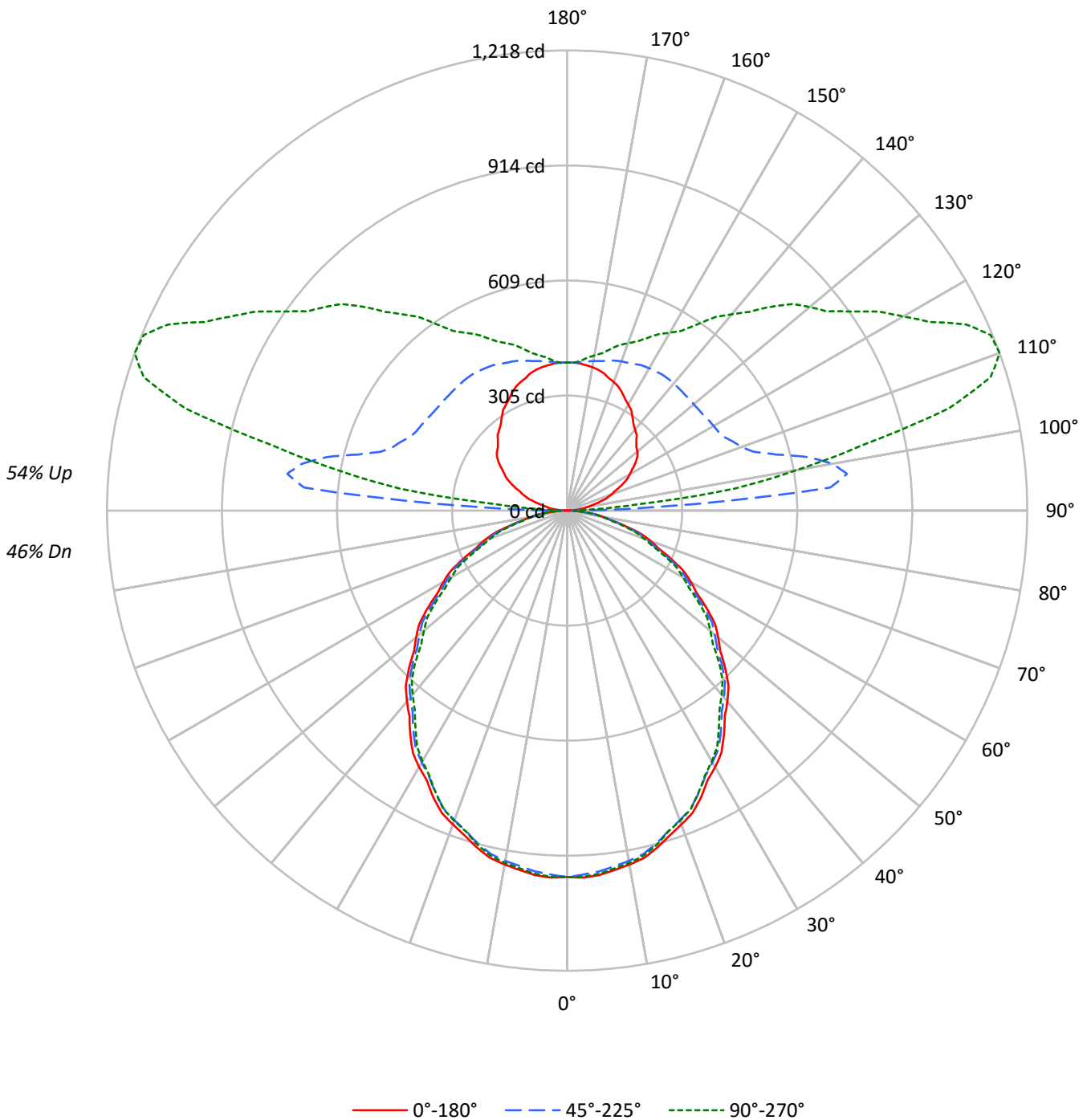
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333186-840

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### Luminous Intensity Polar Plot





TEST NUMBER: P333186-840

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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   | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 66 | 66 | 66 | 53 | 53 | 53 | 46 |
| 1   | 97  | 93  | 89  | 85  | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 57 | 55 | 46 | 45 | 44 | 39 |
| 2   | 88  | 81  | 75  | 69  | 81 | 74 | 69 | 65 | 62 | 58 | 55 | 51 | 48 | 46 | 41 | 39 | 37 | 32 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 42 | 39 | 36 | 34 | 32 | 27 |
| 4   | 74  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 49 | 43 | 39 | 40 | 36 | 33 | 32 | 30 | 27 | 24 |
| 5   | 67  | 56  | 48  | 42  | 62 | 52 | 44 | 39 | 44 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 | 20 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 33 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7   | 57  | 45  | 37  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 25 | 22 | 24 | 21 | 19 | 16 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 14 |
| 9   | 50  | 37  | 30  | 25  | 45 | 35 | 28 | 23 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6264 | 6264 | 6264 |
| 5°  | 6278 | 6218 | 6257 |
| 10° | 6239 | 6174 | 6209 |
| 15° | 6171 | 6100 | 6125 |
| 20° | 6075 | 5996 | 6006 |
| 25° | 5971 | 5872 | 5867 |
| 30° | 5842 | 5739 | 5711 |
| 35° | 5705 | 5595 | 5517 |
| 40° | 5563 | 5440 | 5363 |
| 45° | 5411 | 5298 | 5193 |
| 50° | 5243 | 5127 | 4972 |
| 55° | 5080 | 4933 | 4796 |
| 60° | 4886 | 4738 | 4570 |
| 65° | 4655 | 4504 | 4351 |
| 70° | 4434 | 4232 | 4086 |
| 75° | 4040 | 3905 | 3773 |
| 80° | 3593 | 3537 | 3451 |
| 85° | 3127 | 3179 | 3016 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.4   | 1.7       |
| 10°-20°   | 258.3  | 4.7       |
| 20°-30°   | 381.4  | 7.0       |
| 30°-40°   | 445.0  | 8.1       |
| 40°-50°   | 447.0  | 8.2       |
| 50°-60°   | 392.4  | 7.2       |
| 60°-70°   | 292.4  | 5.4       |
| 70°-80°   | 167.2  | 3.1       |
| 80°-90°   | 50.8   | 0.9       |
| 90°-100°  | 283.9  | 5.2       |
| 100°-110° | 610.3  | 11.2      |
| 110°-120° | 572.7  | 10.5      |
| 120°-130° | 464.2  | 8.5       |
| 130°-140° | 372.5  | 6.8       |
| 140°-150° | 281.1  | 5.1       |
| 150°-160° | 197.9  | 3.6       |
| 160°-170° | 116.6  | 2.1       |
| 170°-180° | 37.9   | 0.7       |
| 0°-30°    | 731.2  | 13.4      |
| 0°-40°    | 1176.2 | 21.5      |
| 0°-60°    | 2015.6 | 36.9      |
| 0°-90°    | 2525.9 | 46.2      |
| 90°-120°  | 1466.9 | 26.9      |
| 90°-150°  | 2584.6 | 47.3      |
| 90°-180°  | 2937.0 | 53.8      |
| 0°-180°   | 5462.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 970 | 970   | 970 | 970   | 970  |      |
| 5°   | 968 | 966   | 959 | 966   | 965  | 92   |
| 15°  | 923 | 920   | 912 | 916   | 916  | 260  |
| 25°  | 838 | 834   | 824 | 825   | 823  | 385  |
| 35°  | 724 | 720   | 710 | 706   | 700  | 452  |
| 45°  | 592 | 589   | 580 | 571   | 569  | 456  |
| 55°  | 451 | 448   | 438 | 431   | 426  | 403  |
| 65°  | 305 | 303   | 295 | 288   | 285  | 302  |
| 75°  | 162 | 160   | 156 | 154   | 151  | 173  |
| 85°  | 42  | 43    | 43  | 42    | 41   | 47   |
| 90°  | 1   | 7     | 13  | 17    | 18   | 4    |
| 95°  | 26  | 77    | 700 | 317   | 186  | 28   |
| 105° | 89  | 125   | 572 | 1127  | 1046 | 94   |
| 115° | 160 | 192   | 460 | 991   | 1166 | 157  |
| 125° | 221 | 259   | 441 | 788   | 918  | 196  |
| 135° | 259 | 311   | 438 | 660   | 763  | 201  |
| 145° | 302 | 346   | 439 | 547   | 602  | 189  |
| 155° | 344 | 370   | 428 | 484   | 504  | 158  |
| 165° | 376 | 386   | 411 | 436   | 442  | 106  |
| 175° | 391 | 391   | 394 | 399   | 397  | 37   |
| 180° | 392 | 392   | 392 | 392   | 392  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 | 969.9 |
| 2.5°   | 972.3 | 971.9 | 971.5 | 971.1 | 970.7 | 969.8 | 968.5 | 967.0 | 965.7 | 964.3 | 965.7 |
| 5°     | 968.4 | 968.0 | 967.7 | 967.2 | 966.9 | 965.9 | 964.2 | 962.5 | 960.8 | 959.1 | 960.7 |
| 7.5°   | 959.4 | 959.1 | 958.8 | 958.4 | 958.1 | 956.9 | 955.0 | 953.2 | 951.3 | 949.5 | 950.9 |
| 10°    | 951.4 | 951.1 | 950.8 | 950.4 | 950.1 | 949.0 | 947.1 | 945.2 | 943.3 | 941.5 | 942.8 |
| 12.5°  | 941.6 | 941.0 | 940.4 | 939.8 | 939.2 | 938.0 | 936.2 | 934.5 | 932.7 | 931.0 | 932.1 |
| 15°    | 923.0 | 922.5 | 922.0 | 921.5 | 921.0 | 919.8 | 918.0 | 916.0 | 914.1 | 912.3 | 913.1 |
| 17.5°  | 901.7 | 901.0 | 900.2 | 899.5 | 898.7 | 897.4 | 895.4 | 893.4 | 891.5 | 889.6 | 890.6 |
| 20°    | 883.9 | 883.5 | 883.2 | 882.9 | 882.5 | 881.3 | 879.1 | 876.9 | 874.6 | 872.4 | 873.6 |
| 22.5°  | 866.1 | 865.5 | 864.8 | 864.2 | 863.6 | 862.3 | 860.2 | 858.2 | 856.1 | 853.9 | 854.7 |
| 25°    | 837.9 | 837.0 | 836.2 | 835.4 | 834.5 | 832.9 | 830.7 | 828.5 | 826.3 | 824.0 | 824.5 |
| 27.5°  | 804.9 | 804.4 | 803.9 | 803.3 | 802.8 | 801.4 | 799.1 | 796.9 | 794.6 | 792.3 | 792.3 |
| 30°    | 783.4 | 782.8 | 782.3 | 781.8 | 781.3 | 779.8 | 777.3 | 774.7 | 772.1 | 769.6 | 769.2 |
| 32.5°  | 760.0 | 759.3 | 758.5 | 757.7 | 756.9 | 755.4 | 753.2 | 750.8 | 748.5 | 746.3 | 745.7 |
| 35°    | 723.6 | 722.9 | 722.2 | 721.5 | 720.8 | 719.3 | 716.9 | 714.5 | 712.2 | 709.7 | 708.9 |
| 37.5°  | 685.6 | 684.8 | 684.0 | 683.1 | 682.3 | 680.6 | 678.4 | 676.2 | 673.9 | 671.7 | 670.4 |
| 40°    | 659.8 | 659.0 | 658.1 | 657.3 | 656.4 | 654.8 | 652.5 | 650.1 | 647.6 | 645.3 | 643.8 |
| 42.5°  | 632.3 | 631.6 | 630.8 | 630.1 | 629.3 | 627.8 | 625.4 | 623.1 | 620.7 | 618.2 | 616.9 |
| 45°    | 592.4 | 591.7 | 591.0 | 590.3 | 589.7 | 588.2 | 586.2 | 584.2 | 582.1 | 580.1 | 578.0 |
| 47.5°  | 549.4 | 549.4 | 549.5 | 549.5 | 549.5 | 548.3 | 545.8 | 543.4 | 541.0 | 538.5 | 536.4 |
| 50°    | 521.8 | 521.2 | 520.7 | 520.2 | 519.7 | 518.5 | 516.3 | 514.3 | 512.3 | 510.3 | 508.1 |
| 52.5°  | 493.5 | 493.1 | 492.8 | 492.4 | 492.0 | 490.7 | 488.6 | 486.4 | 484.2 | 482.0 | 480.1 |
| 55°    | 451.2 | 450.6 | 450.1 | 449.6 | 449.1 | 447.7 | 445.2 | 442.9 | 440.5 | 438.1 | 436.6 |
| 57.5°  | 406.5 | 406.3 | 406.0 | 405.7 | 405.5 | 404.2 | 402.2 | 400.2 | 398.2 | 396.3 | 394.3 |
| 60°    | 378.3 | 377.6 | 376.9 | 376.2 | 375.6 | 374.3 | 372.4 | 370.5 | 368.6 | 366.8 | 365.1 |
| 62.5°  | 348.8 | 348.3 | 347.7 | 347.2 | 346.6 | 345.6 | 344.0 | 342.3 | 340.7 | 339.1 | 337.3 |
| 65°    | 304.6 | 304.3 | 304.0 | 303.6 | 303.3 | 302.2 | 300.2 | 298.4 | 296.5 | 294.7 | 293.1 |
| 67.5°  | 261.8 | 261.1 | 260.3 | 259.6 | 258.9 | 257.9 | 256.5 | 255.1 | 253.7 | 252.3 | 251.0 |
| 70°    | 234.8 | 234.0 | 233.1 | 232.3 | 231.4 | 230.1 | 228.6 | 227.1 | 225.6 | 224.1 | 223.0 |
| 72.5°  | 205.3 | 204.7 | 204.2 | 203.6 | 203.0 | 202.2 | 201.3 | 200.3 | 199.2 | 198.2 | 197.1 |
| 75°    | 161.9 | 161.6 | 161.2 | 160.9 | 160.6 | 160.0 | 159.1 | 158.2 | 157.3 | 156.5 | 156.0 |
| 77.5°  | 121.9 | 121.7 | 121.6 | 121.4 | 121.3 | 121.0 | 120.5 | 120.1 | 119.6 | 119.1 | 118.8 |
| 80°    | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.5  | 96.1  | 95.8  | 95.5  | 95.1  | 94.9  |
| 82.5°  | 74.6  | 74.3  | 74.0  | 73.7  | 73.5  | 73.3  | 73.2  | 73.2  | 73.1  | 73.0  | 72.7  |
| 85°    | 42.2  | 42.4  | 42.5  | 42.7  | 42.9  | 42.9  | 42.9  | 42.9  | 42.9  | 42.9  | 42.8  |
| 87.5°  | 16.8  | 16.9  | 17.2  | 17.5  | 17.9  | 18.1  | 18.1  | 18.3  | 18.3  | 18.5  | 18.7  |
| 90°    | 0.8   | 1.6   | 3.1   | 4.7   | 6.4   | 7.9   | 8.7   | 10.3  | 11.0  | 12.6  | 13.4  |
| 92.5°  | 9.6   | 11.7  | 18.3  | 28.1  | 41.7  | 64.7  | 107.9 | 180.2 | 258.6 | 254.6 | 206.1 |
| 95°    | 26.1  | 26.9  | 33.1  | 41.8  | 59.2  | 94.7  | 179.3 | 352.9 | 570.9 | 699.6 | 684.6 |
| 97.5°  | 43.2  | 44.2  | 48.7  | 57.4  | 72.9  | 98.6  | 154.4 | 281.8 | 509.8 | 747.1 | 866.2 |
| 100°   | 55.2  | 56.9  | 60.0  | 68.7  | 83.7  | 107.3 | 153.2 | 255.8 | 454.8 | 713.1 | 910.4 |
| 102.5° | 68.6  | 69.5  | 72.0  | 81.3  | 95.0  | 118.2 | 158.9 | 245.1 | 413.1 | 653.0 | 883.9 |
| 105°   | 89.3  | 89.3  | 93.2  | 101.1 | 113.7 | 135.8 | 170.6 | 240.9 | 372.7 | 572.5 | 799.1 |
| 107.5° | 109.5 | 111.0 | 114.8 | 121.3 | 134.4 | 154.3 | 187.9 | 248.1 | 355.7 | 517.1 | 712.6 |
| 110°   | 124.0 | 125.5 | 128.7 | 135.8 | 147.6 | 168.1 | 200.6 | 255.1 | 350.6 | 491.1 | 663.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 138.5 | 140.1 | 142.6 | 149.7 | 161.6 | 181.5 | 212.6 | 263.9 | 350.6 | 475.9 | 626.6 |
| 115°   | 159.5 | 161.1 | 163.5 | 170.6 | 182.4 | 202.2 | 231.4 | 277.1 | 352.9 | 459.6 | 586.6 |
| 117.5° | 178.4 | 180.9 | 183.4 | 190.5 | 203.9 | 223.0 | 250.6 | 292.4 | 358.2 | 451.5 | 562.8 |
| 120°   | 191.1 | 193.5 | 196.6 | 203.7 | 217.1 | 236.9 | 264.5 | 302.5 | 363.2 | 447.7 | 549.6 |
| 122.5° | 204.4 | 206.1 | 208.6 | 215.7 | 230.5 | 250.1 | 277.8 | 313.8 | 367.6 | 444.5 | 538.2 |
| 125°   | 221.1 | 222.7 | 226.6 | 233.7 | 248.7 | 269.2 | 295.3 | 329.2 | 375.1 | 440.6 | 522.7 |
| 127.5° | 234.2 | 236.6 | 241.7 | 250.6 | 266.6 | 287.1 | 312.3 | 343.5 | 383.4 | 438.7 | 508.5 |
| 130°   | 242.4 | 244.8 | 251.1 | 261.4 | 277.9 | 298.5 | 323.0 | 352.9 | 388.5 | 437.5 | 499.1 |
| 132.5° | 248.7 | 251.8 | 259.3 | 270.8 | 288.0 | 308.6 | 333.1 | 361.1 | 394.2 | 437.5 | 491.5 |
| 135°   | 259.0 | 262.2 | 271.7 | 284.3 | 300.8 | 322.1 | 346.7 | 372.7 | 401.9 | 437.5 | 482.4 |
| 137.5° | 272.0 | 274.3 | 283.2 | 295.8 | 312.0 | 334.0 | 356.3 | 381.2 | 409.0 | 438.4 | 474.4 |
| 140°   | 279.5 | 281.9 | 291.3 | 304.0 | 319.0 | 340.3 | 363.2 | 386.9 | 412.1 | 439.0 | 470.6 |
| 142.5° | 288.3 | 290.1 | 298.9 | 311.5 | 326.0 | 346.0 | 367.6 | 390.1 | 414.0 | 439.7 | 467.5 |
| 145°   | 301.6 | 303.2 | 311.1 | 322.1 | 336.4 | 354.6 | 375.1 | 394.8 | 416.2 | 439.0 | 462.7 |
| 147.5° | 315.5 | 316.5 | 323.3 | 333.6 | 345.9 | 361.8 | 379.8 | 397.7 | 416.9 | 437.0 | 457.8 |
| 150°   | 323.8 | 325.3 | 330.8 | 341.1 | 352.1 | 365.6 | 382.9 | 399.5 | 416.9 | 435.0 | 454.0 |
| 152.5° | 332.5 | 333.6 | 338.4 | 347.4 | 357.9 | 370.0 | 386.1 | 400.8 | 416.3 | 432.5 | 449.6 |
| 155°   | 344.3 | 344.3 | 349.0 | 356.9 | 364.8 | 375.9 | 389.3 | 401.9 | 414.5 | 428.0 | 442.2 |
| 157.5° | 354.7 | 354.6 | 358.3 | 365.1 | 372.0 | 380.4 | 391.9 | 402.7 | 412.5 | 423.2 | 435.3 |
| 160°   | 361.6 | 360.8 | 364.1 | 369.5 | 375.9 | 382.9 | 393.2 | 402.7 | 410.6 | 420.1 | 429.6 |
| 162.5° | 367.3 | 366.6 | 369.7 | 374.6 | 379.6 | 385.5 | 394.5 | 402.0 | 408.7 | 416.3 | 424.4 |
| 165°   | 375.9 | 374.3 | 376.7 | 380.6 | 383.7 | 388.5 | 394.8 | 401.1 | 405.9 | 410.6 | 416.9 |
| 167.5° | 381.5 | 380.7 | 382.1 | 384.4 | 386.6 | 389.6 | 394.8 | 399.2 | 401.4 | 405.1 | 409.5 |
| 170°   | 385.4 | 384.6 | 385.4 | 386.9 | 388.5 | 390.8 | 394.8 | 398.0 | 399.5 | 401.9 | 405.1 |
| 172.5° | 387.9 | 386.5 | 387.2 | 388.8 | 389.7 | 390.8 | 394.2 | 396.7 | 397.0 | 398.1 | 400.6 |
| 175°   | 390.8 | 389.3 | 390.1 | 390.8 | 390.8 | 390.8 | 393.2 | 394.8 | 394.0 | 394.0 | 394.8 |
| 177.5° | 392.2 | 391.0 | 391.0 | 391.6 | 391.0 | 391.0 | 392.2 | 392.9 | 391.6 | 391.6 | 392.2 |
| 180°   | 391.6 | 391.6 | 391.6 | 391.6 | 391.6 | 391.6 | 391.6 | 391.6 | 391.6 | 391.6 | 391.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 969.9  | 969.9  | 969.9  | 969.9  | 969.9  | 969.9  | 969.9  | 969.9  |
| 2.5°   | 967.0  | 968.5  | 969.8  | 970.4  | 970.3  | 970.1  | 970.0  | 969.9  |
| 5°     | 962.2  | 963.7  | 965.2  | 965.9  | 965.7  | 965.6  | 965.4  | 965.2  |
| 7.5°   | 952.4  | 953.9  | 955.4  | 956.1  | 955.9  | 955.7  | 955.6  | 955.4  |
| 10°    | 944.2  | 945.5  | 947.0  | 947.6  | 947.4  | 947.2  | 947.0  | 946.8  |
| 12.5°  | 933.2  | 934.3  | 935.3  | 935.9  | 935.8  | 935.8  | 935.8  | 935.7  |
| 15°    | 914.0  | 914.8  | 915.7  | 916.1  | 916.1  | 916.1  | 916.1  | 916.1  |
| 17.5°  | 891.7  | 892.7  | 893.8  | 893.9  | 893.0  | 892.2  | 891.4  | 890.5  |
| 20°    | 874.7  | 876.0  | 877.2  | 877.4  | 876.5  | 875.7  | 874.7  | 873.9  |
| 22.5°  | 855.6  | 856.4  | 857.2  | 857.3  | 856.7  | 856.1  | 855.5  | 855.0  |
| 25°    | 824.8  | 825.1  | 825.5  | 825.4  | 824.9  | 824.4  | 823.8  | 823.3  |
| 27.5°  | 792.4  | 792.5  | 792.5  | 792.3  | 791.8  | 791.3  | 790.8  | 790.3  |
| 30°    | 768.9  | 768.6  | 768.2  | 767.8  | 767.3  | 766.8  | 766.3  | 765.8  |
| 32.5°  | 745.1  | 744.4  | 743.8  | 743.1  | 742.1  | 741.2  | 740.2  | 739.3  |
| 35°    | 708.0  | 707.2  | 706.3  | 705.2  | 703.9  | 702.5  | 701.1  | 699.7  |
| 37.5°  | 669.1  | 667.9  | 666.6  | 665.6  | 664.8  | 664.1  | 663.3  | 662.5  |
| 40°    | 642.2  | 640.7  | 639.1  | 638.1  | 637.6  | 637.1  | 636.6  | 636.1  |
| 42.5°  | 615.5  | 614.1  | 612.7  | 611.6  | 610.8  | 610.1  | 609.3  | 608.4  |
| 45°    | 575.9  | 573.9  | 571.9  | 570.6  | 570.1  | 569.6  | 569.1  | 568.6  |
| 47.5°  | 534.3  | 532.2  | 530.2  | 528.6  | 527.4  | 526.1  | 524.9  | 523.7  |
| 50°    | 505.8  | 503.6  | 501.4  | 499.7  | 498.5  | 497.3  | 496.0  | 494.9  |
| 52.5°  | 478.1  | 476.2  | 474.2  | 472.6  | 471.3  | 469.9  | 468.6  | 467.3  |
| 55°    | 435.0  | 433.5  | 432.0  | 430.6  | 429.4  | 428.2  | 427.1  | 425.9  |
| 57.5°  | 392.2  | 390.3  | 388.3  | 387.0  | 386.4  | 385.7  | 385.1  | 384.5  |
| 60°    | 363.3  | 361.6  | 359.9  | 358.5  | 357.3  | 356.1  | 354.9  | 353.8  |
| 62.5°  | 335.5  | 333.7  | 331.7  | 330.4  | 329.5  | 328.5  | 327.6  | 326.7  |
| 65°    | 291.5  | 290.0  | 288.5  | 287.4  | 286.7  | 286.0  | 285.4  | 284.7  |
| 67.5°  | 249.7  | 248.4  | 247.1  | 246.2  | 245.8  | 245.4  | 245.0  | 244.6  |
| 70°    | 222.0  | 221.0  | 219.9  | 219.1  | 218.4  | 217.7  | 217.0  | 216.4  |
| 72.5°  | 195.9  | 194.8  | 193.6  | 192.7  | 192.0  | 191.4  | 190.7  | 190.0  |
| 75°    | 155.5  | 155.0  | 154.5  | 153.9  | 153.2  | 152.5  | 151.9  | 151.2  |
| 77.5°  | 118.5  | 118.2  | 117.9  | 117.4  | 116.9  | 116.5  | 116.0  | 115.5  |
| 80°    | 94.8   | 94.6   | 94.4   | 94.2   | 93.8   | 93.5   | 93.2   | 92.8   |
| 82.5°  | 72.4   | 72.1   | 71.8   | 71.6   | 71.6   | 71.5   | 71.4   | 71.4   |
| 85°    | 42.6   | 42.4   | 42.3   | 42.0   | 41.7   | 41.3   | 41.0   | 40.7   |
| 87.5°  | 18.8   | 19.0   | 19.1   | 19.3   | 19.0   | 18.8   | 18.7   | 18.4   |
| 90°    | 14.2   | 15.0   | 15.8   | 17.4   | 17.4   | 17.4   | 18.2   | 18.2   |
| 92.5°  | 140.0  | 101.6  | 76.4   | 64.7   | 54.6   | 52.7   | 51.6   | 50.4   |
| 95°    | 567.7  | 447.7  | 350.6  | 284.3  | 228.2  | 204.5  | 198.2  | 185.5  |
| 97.5°  | 845.6  | 761.3  | 666.7  | 574.5  | 525.7  | 481.5  | 458.6  | 448.5  |
| 100°   | 971.2  | 932.5  | 851.2  | 769.1  | 714.6  | 657.7  | 628.5  | 615.9  |
| 102.5° | 1013.5 | 1037.4 | 998.4  | 942.8  | 884.5  | 844.0  | 812.3  | 802.8  |
| 105°   | 988.6  | 1096.8 | 1131.6 | 1122.9 | 1097.5 | 1071.5 | 1055.7 | 1046.2 |
| 107.5° | 899.5  | 1043.9 | 1133.1 | 1174.3 | 1187.1 | 1186.9 | 1181.7 | 1175.4 |
| 110°   | 833.8  | 983.8  | 1095.2 | 1162.3 | 1197.8 | 1212.8 | 1218.4 | 1218.4 |





TEST NUMBER: P333186-840

CATALOG NUMBER: S125DIP-S610D810U840-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 782.0 | 924.4 | 1037.0 | 1116.2 | 1168.1 | 1193.9 | 1207.6 | 1213.4 |
| 115°   | 717.0 | 839.4 | 947.6  | 1033.6 | 1095.2 | 1133.1 | 1155.2 | 1165.5 |
| 117.5° | 675.0 | 780.4 | 873.6  | 952.6  | 1014.2 | 1053.3 | 1075.3 | 1081.6 |
| 120°   | 652.2 | 747.0 | 833.8  | 903.3  | 961.7  | 999.7  | 1021.0 | 1027.2 |
| 122.5° | 635.2 | 723.0 | 800.3  | 865.5  | 917.6  | 952.3  | 973.6  | 979.3  |
| 125°   | 610.4 | 690.9 | 759.6  | 816.5  | 860.7  | 893.0  | 910.4  | 918.3  |
| 127.5° | 585.1 | 660.2 | 724.4  | 777.6  | 817.7  | 846.3  | 862.7  | 866.2  |
| 130°   | 569.3 | 638.8 | 700.3  | 751.7  | 791.2  | 817.3  | 833.0  | 837.8  |
| 132.5° | 553.5 | 618.5 | 674.5  | 723.9  | 763.4  | 789.4  | 804.0  | 809.3  |
| 135°   | 533.0 | 587.4 | 638.0  | 683.0  | 717.7  | 743.8  | 758.0  | 762.8  |
| 137.5° | 515.6 | 559.7 | 601.7  | 639.9  | 671.1  | 694.7  | 707.8  | 713.1  |
| 140°   | 506.1 | 543.2 | 579.6  | 612.7  | 642.0  | 662.5  | 674.3  | 678.2  |
| 142.5° | 498.0 | 529.4 | 560.6  | 589.4  | 614.2  | 631.6  | 642.8  | 646.0  |
| 145°   | 487.2 | 511.7 | 536.1  | 557.4  | 576.4  | 589.9  | 598.5  | 601.7  |
| 147.5° | 477.1 | 497.0 | 515.7  | 531.9  | 546.8  | 557.6  | 562.7  | 564.1  |
| 150°   | 471.4 | 488.8 | 503.7  | 518.0  | 529.9  | 539.3  | 542.5  | 543.2  |
| 152.5° | 465.0 | 480.6 | 494.3  | 505.3  | 515.3  | 522.9  | 526.0  | 526.8  |
| 155°   | 455.7 | 468.3 | 479.3  | 488.0  | 495.8  | 501.4  | 503.7  | 504.5  |
| 157.5° | 446.2 | 456.6 | 465.0  | 471.9  | 478.1  | 482.6  | 484.8  | 484.6  |
| 160°   | 439.8 | 447.7 | 455.7  | 461.1  | 466.7  | 470.6  | 472.2  | 471.4  |
| 162.5° | 432.8 | 440.1 | 446.8  | 451.6  | 456.0  | 459.2  | 459.6  | 459.4  |
| 165°   | 423.2 | 428.8 | 433.5  | 437.5  | 440.6  | 442.2  | 442.2  | 442.2  |
| 167.5° | 414.0 | 417.7 | 421.3  | 424.1  | 425.8  | 427.2  | 426.6  | 426.4  |
| 170°   | 409.0 | 411.4 | 413.7  | 415.4  | 416.9  | 417.7  | 417.7  | 416.9  |
| 172.5° | 403.3 | 405.7 | 407.5  | 408.4  | 408.7  | 410.1  | 408.9  | 408.1  |
| 175°   | 397.2 | 397.2 | 398.8  | 398.8  | 398.8  | 399.5  | 398.0  | 397.2  |
| 177.5° | 392.9 | 393.5 | 393.5  | 393.5  | 392.9  | 393.5  | 391.6  | 391.6  |
| 180°   | 391.6 | 391.6 | 391.6  | 391.6  | 391.6  | 391.6  | 391.6  | 391.6  |

(END OF REPORT)