

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: P333404-830

Luminaire Tested: **S125DIW-S850D470U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333404-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S850D470U830-4F0-1E-UDD-F
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 850 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4987.3 lumens
Efficiency: N/A
Efficacy: 132.3 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: Semi-Direct

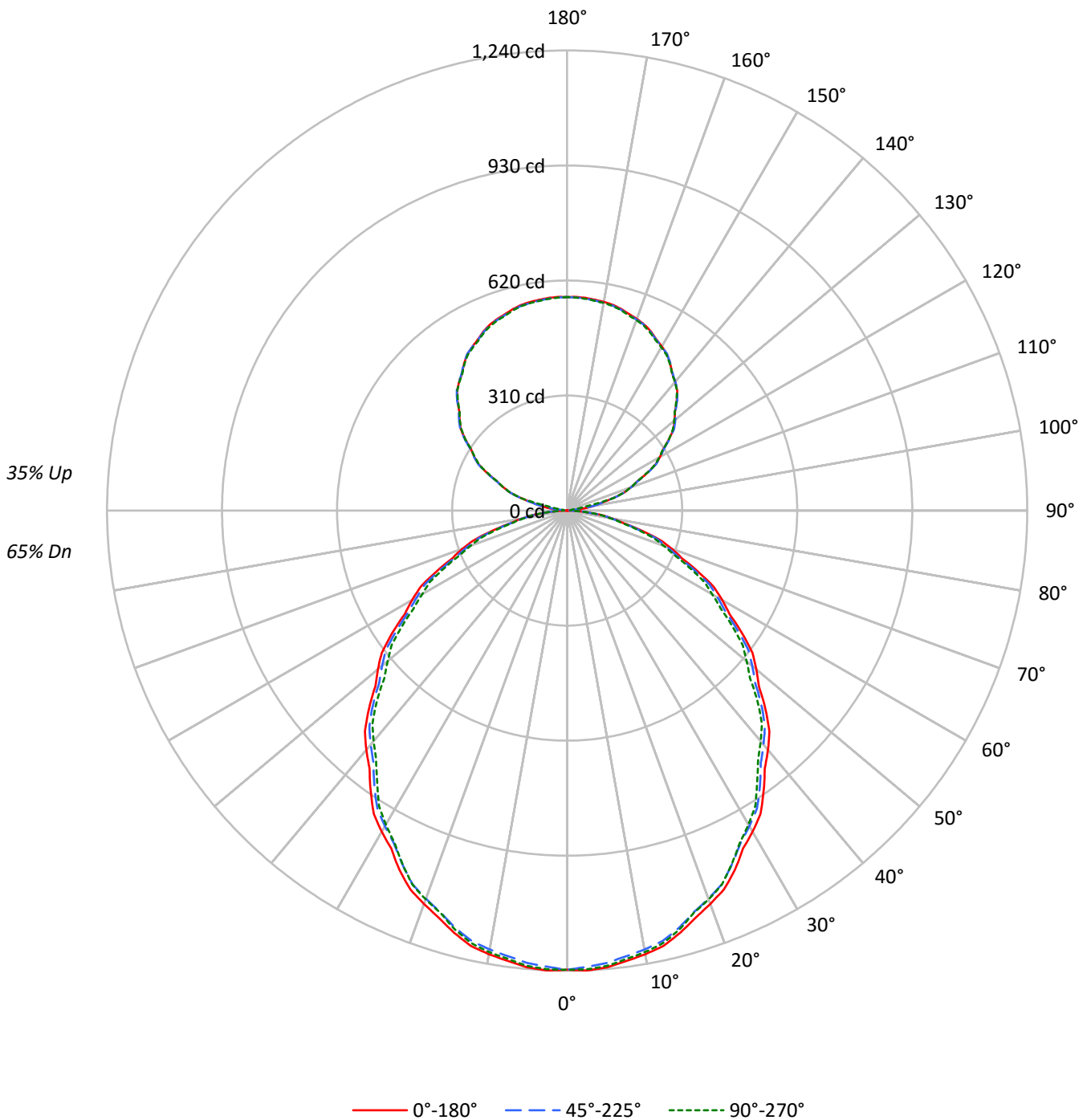
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333404-830

CATALOG NUMBER: S125DIW-S850D470U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P333404-830

CATALOG NUMBER: S125DIW-S850D470U830-4F0-1E-UDD-F

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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 80 | 80 | 80 | 70 | 70 | 70 | 65 |
| 1 | 101 | 97 | 92 | 89 | 95 | 91 | 87 | 84 | 80 | 78 | 75 | 70 | 68 | 67 | 61 | 60 | 59 | 54 |
| 2 | 92 | 84 | 78 | 73 | 86 | 79 | 74 | 69 | 70 | 66 | 62 | 62 | 58 | 56 | 54 | 51 | 49 | 45 |
| 3 | 84 | 74 | 67 | 60 | 78 | 70 | 63 | 58 | 62 | 57 | 52 | 55 | 50 | 47 | 48 | 45 | 42 | 38 |
| 4 | 77 | 66 | 57 | 51 | 72 | 62 | 55 | 49 | 55 | 49 | 45 | 49 | 44 | 40 | 43 | 39 | 36 | 33 |
| 5 | 71 | 59 | 50 | 44 | 66 | 55 | 48 | 42 | 49 | 43 | 38 | 44 | 39 | 35 | 38 | 35 | 31 | 29 |
| 6 | 65 | 53 | 44 | 38 | 61 | 50 | 42 | 37 | 44 | 38 | 34 | 40 | 35 | 31 | 35 | 31 | 28 | 25 |
| 7 | 60 | 48 | 39 | 34 | 56 | 45 | 38 | 32 | 40 | 34 | 30 | 36 | 31 | 27 | 32 | 28 | 25 | 22 |
| 8 | 56 | 43 | 35 | 30 | 52 | 41 | 34 | 29 | 37 | 31 | 26 | 33 | 28 | 24 | 29 | 25 | 22 | 20 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 22 | 27 | 23 | 20 | 18 |
| 10 | 49 | 36 | 29 | 24 | 46 | 35 | 28 | 23 | 31 | 25 | 21 | 28 | 23 | 20 | 25 | 21 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7991 | 7991 | 7991 |
| 5° | 8009 | 7933 | 7983 |
| 10° | 7960 | 7877 | 7922 |
| 15° | 7874 | 7782 | 7815 |
| 20° | 7750 | 7649 | 7663 |
| 25° | 7617 | 7492 | 7485 |
| 30° | 7454 | 7322 | 7285 |
| 35° | 7278 | 7139 | 7039 |
| 40° | 7098 | 6940 | 6842 |
| 45° | 6902 | 6760 | 6625 |
| 50° | 6688 | 6540 | 6344 |
| 55° | 6481 | 6293 | 6117 |
| 60° | 6234 | 6044 | 5829 |
| 65° | 5938 | 5744 | 5550 |
| 70° | 5655 | 5399 | 5214 |
| 75° | 5153 | 4983 | 4811 |
| 80° | 4590 | 4515 | 4407 |
| 85° | 3987 | 4068 | 3838 |



TEST NUMBER: P333404-830

CATALOG NUMBER: S125DIW-S850D470U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.7 | 2.3 |
| 10°-20° | 329.6 | 6.6 |
| 20°-30° | 486.6 | 9.8 |
| 30°-40° | 567.8 | 11.4 |
| 40°-50° | 570.3 | 11.4 |
| 50°-60° | 500.6 | 10.0 |
| 60°-70° | 373.0 | 7.5 |
| 70°-80° | 213.3 | 4.3 |
| 80°-90° | 63.3 | 1.3 |
| 90°-100° | 20.9 | 0.4 |
| 100°-110° | 128.8 | 2.6 |
| 110°-120° | 233.6 | 4.7 |
| 120°-130° | 299.9 | 6.0 |
| 130°-140° | 322.5 | 6.5 |
| 140°-150° | 302.7 | 6.1 |
| 150°-160° | 244.9 | 4.9 |
| 160°-170° | 158.4 | 3.2 |
| 170°-180° | 54.6 | 1.1 |
| 0°-30° | 932.8 | 18.7 |
| 0°-40° | 1500.6 | 30.1 |
| 0°-60° | 2571.4 | 51.6 |
| 0°-90° | 3220.9 | 64.6 |
| 90°-120° | 383.4 | 7.7 |
| 90°-150° | 1308.5 | 26.2 |
| 90°-180° | 1766.0 | 35.4 |
| 0°-180° | 4987.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1237 | 1237 | 1237 | 1237 | 1237 | |
| 5° | 1235 | 1233 | 1224 | 1232 | 1231 | 117 |
| 15° | 1178 | 1174 | 1164 | 1169 | 1169 | 332 |
| 25° | 1069 | 1064 | 1051 | 1053 | 1050 | 492 |
| 35° | 923 | 919 | 906 | 900 | 893 | 577 |
| 45° | 756 | 751 | 740 | 729 | 725 | 582 |
| 55° | 576 | 572 | 559 | 550 | 543 | 514 |
| 65° | 389 | 386 | 376 | 367 | 363 | 386 |
| 75° | 206 | 204 | 200 | 197 | 193 | 220 |
| 85° | 54 | 55 | 55 | 54 | 52 | 60 |
| 90° | 0 | 4 | 7 | 9 | 10 | 4 |
| 95° | 24 | 22 | 7 | 9 | 9 | 31 |
| 105° | 125 | 127 | 127 | 127 | 127 | 133 |
| 115° | 235 | 237 | 238 | 236 | 234 | 233 |
| 125° | 335 | 338 | 338 | 336 | 335 | 299 |
| 135° | 418 | 420 | 419 | 418 | 416 | 322 |
| 145° | 484 | 485 | 485 | 485 | 483 | 303 |
| 155° | 533 | 531 | 531 | 532 | 529 | 245 |
| 165° | 562 | 560 | 560 | 563 | 559 | 159 |
| 175° | 575 | 573 | 573 | 576 | 573 | 55 |
| 180° | 575 | 575 | 575 | 575 | 575 | |



TEST NUMBER: P333404-830

CATALOG NUMBER: S125DIW-S850D470U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 |
| 2.5° | 1240.5 | 1239.9 | 1239.4 | 1238.9 | 1238.3 | 1237.2 | 1235.5 | 1233.8 | 1232.0 | 1230.3 | 1232.0 |
| 5° | 1235.4 | 1234.9 | 1234.4 | 1234.1 | 1233.6 | 1232.3 | 1230.1 | 1227.9 | 1225.8 | 1223.6 | 1225.6 |
| 7.5° | 1224.0 | 1223.6 | 1223.1 | 1222.7 | 1222.3 | 1220.9 | 1218.4 | 1216.1 | 1213.7 | 1211.3 | 1213.1 |
| 10° | 1213.8 | 1213.4 | 1213.0 | 1212.5 | 1212.1 | 1210.7 | 1208.2 | 1205.9 | 1203.5 | 1201.1 | 1202.9 |
| 12.5° | 1201.3 | 1200.5 | 1199.8 | 1198.9 | 1198.2 | 1196.7 | 1194.5 | 1192.2 | 1190.0 | 1187.8 | 1189.2 |
| 15° | 1177.6 | 1177.0 | 1176.3 | 1175.6 | 1175.0 | 1173.5 | 1171.1 | 1168.7 | 1166.3 | 1163.9 | 1165.0 |
| 17.5° | 1150.4 | 1149.4 | 1148.5 | 1147.5 | 1146.6 | 1144.8 | 1142.4 | 1139.9 | 1137.4 | 1134.9 | 1136.2 |
| 20° | 1127.7 | 1127.3 | 1126.8 | 1126.3 | 1126.0 | 1124.3 | 1121.4 | 1118.6 | 1115.8 | 1113.0 | 1114.6 |
| 22.5° | 1104.9 | 1104.2 | 1103.4 | 1102.6 | 1101.8 | 1100.1 | 1097.5 | 1094.8 | 1092.1 | 1089.5 | 1090.5 |
| 25° | 1068.9 | 1067.9 | 1066.8 | 1065.6 | 1064.6 | 1062.6 | 1059.8 | 1057.0 | 1054.1 | 1051.3 | 1051.8 |
| 27.5° | 1026.8 | 1026.2 | 1025.6 | 1024.9 | 1024.3 | 1022.5 | 1019.5 | 1016.6 | 1013.7 | 1010.8 | 1010.9 |
| 30° | 999.5 | 998.8 | 998.2 | 997.5 | 996.8 | 994.9 | 991.6 | 988.4 | 985.1 | 981.8 | 981.4 |
| 32.5° | 969.7 | 968.7 | 967.7 | 966.7 | 965.7 | 963.7 | 960.8 | 957.9 | 955.0 | 952.1 | 951.3 |
| 35° | 923.1 | 922.2 | 921.3 | 920.5 | 919.6 | 917.7 | 914.6 | 911.5 | 908.5 | 905.5 | 904.4 |
| 37.5° | 874.8 | 873.6 | 872.5 | 871.5 | 870.3 | 868.4 | 865.5 | 862.6 | 859.8 | 857.0 | 855.3 |
| 40° | 841.9 | 840.7 | 839.7 | 838.6 | 837.4 | 835.5 | 832.4 | 829.3 | 826.3 | 823.2 | 821.3 |
| 42.5° | 806.6 | 805.7 | 804.7 | 803.9 | 803.0 | 801.0 | 798.0 | 794.8 | 791.8 | 788.8 | 787.0 |
| 45° | 755.7 | 754.8 | 753.9 | 753.1 | 752.2 | 750.5 | 747.9 | 745.3 | 742.6 | 740.1 | 737.4 |
| 47.5° | 700.9 | 701.0 | 701.0 | 701.0 | 701.1 | 699.6 | 696.4 | 693.2 | 690.1 | 687.0 | 684.3 |
| 50° | 665.6 | 665.0 | 664.3 | 663.6 | 663.1 | 661.4 | 658.8 | 656.2 | 653.6 | 650.9 | 648.1 |
| 52.5° | 629.6 | 629.1 | 628.7 | 628.2 | 627.7 | 626.0 | 623.3 | 620.5 | 617.7 | 614.9 | 612.5 |
| 55° | 575.6 | 575.0 | 574.3 | 573.6 | 573.0 | 571.1 | 568.1 | 565.1 | 561.9 | 558.9 | 556.9 |
| 57.5° | 518.6 | 518.3 | 517.9 | 517.6 | 517.3 | 515.8 | 513.2 | 510.7 | 508.0 | 505.5 | 502.9 |
| 60° | 482.6 | 481.7 | 480.9 | 479.9 | 479.1 | 477.5 | 475.0 | 472.7 | 470.3 | 467.9 | 465.7 |
| 62.5° | 445.0 | 444.3 | 443.7 | 442.9 | 442.2 | 440.8 | 438.8 | 436.8 | 434.7 | 432.6 | 430.4 |
| 65° | 388.6 | 388.1 | 387.8 | 387.3 | 386.9 | 385.5 | 383.0 | 380.7 | 378.2 | 375.9 | 373.9 |
| 67.5° | 334.0 | 333.1 | 332.2 | 331.2 | 330.4 | 328.9 | 327.3 | 325.5 | 323.7 | 321.9 | 320.2 |
| 70° | 299.5 | 298.4 | 297.4 | 296.2 | 295.2 | 293.7 | 291.7 | 289.7 | 287.8 | 285.9 | 284.6 |
| 72.5° | 261.9 | 261.2 | 260.4 | 259.8 | 259.0 | 258.0 | 256.7 | 255.4 | 254.2 | 253.0 | 251.5 |
| 75° | 206.5 | 206.1 | 205.7 | 205.3 | 204.8 | 204.1 | 202.9 | 201.9 | 200.8 | 199.7 | 199.1 |
| 77.5° | 155.4 | 155.2 | 155.1 | 155.0 | 154.8 | 154.4 | 153.7 | 153.2 | 152.5 | 151.9 | 151.6 |
| 80° | 123.4 | 123.4 | 123.4 | 123.4 | 123.4 | 123.1 | 122.7 | 122.2 | 121.8 | 121.4 | 121.2 |
| 82.5° | 95.1 | 94.8 | 94.4 | 94.1 | 93.8 | 93.5 | 93.4 | 93.4 | 93.3 | 93.2 | 92.8 |
| 85° | 53.8 | 54.1 | 54.3 | 54.5 | 54.7 | 54.9 | 54.9 | 54.9 | 54.9 | 54.9 | 54.6 |
| 87.5° | 21.2 | 21.4 | 21.5 | 21.7 | 21.9 | 21.9 | 21.9 | 21.8 | 21.8 | 21.7 | 21.9 |
| 90° | 0.5 | 1.2 | 2.0 | 2.7 | 3.5 | 4.1 | 4.8 | 5.5 | 6.1 | 6.8 | 7.3 |
| 92.5° | 6.6 | 6.0 | 5.5 | 5.0 | 4.4 | 4.4 | 5.1 | 5.7 | 6.2 | 6.8 | 7.3 |
| 95° | 24.3 | 24.0 | 23.8 | 23.5 | 23.2 | 21.2 | 17.6 | 14.0 | 10.5 | 6.8 | 7.3 |
| 97.5° | 50.7 | 51.3 | 51.7 | 52.3 | 52.8 | 49.5 | 42.3 | 35.3 | 28.1 | 21.0 | 18.3 |
| 100° | 71.2 | 71.5 | 71.8 | 72.1 | 72.4 | 72.7 | 73.0 | 73.4 | 73.8 | 74.2 | 60.0 |
| 102.5° | 92.0 | 92.4 | 92.7 | 93.1 | 93.5 | 93.8 | 94.0 | 94.2 | 94.4 | 94.6 | 92.0 |
| 105° | 125.4 | 125.7 | 126.1 | 126.5 | 126.9 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 |
| 107.5° | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 160.0 | 160.2 | 160.4 | 160.6 | 160.8 | 160.9 |
| 110° | 182.5 | 182.5 | 182.5 | 182.5 | 182.5 | 182.6 | 182.8 | 182.9 | 183.1 | 183.3 | 183.0 |



TEST NUMBER: P333404-830

CATALOG NUMBER: S125DIW-S850D470U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 203.7 | 203.9 | 204.1 | 204.3 | 204.5 | 204.7 | 204.8 | 205.0 | 205.1 | 205.2 | 204.8 |
| 115° | 235.4 | 235.8 | 236.3 | 236.8 | 237.2 | 237.5 | 237.6 | 237.7 | 237.8 | 237.9 | 237.5 |
| 117.5° | 268.2 | 268.2 | 268.2 | 268.2 | 268.2 | 268.3 | 268.6 | 269.0 | 269.4 | 269.8 | 269.3 |
| 120° | 288.7 | 288.6 | 288.5 | 288.4 | 288.3 | 288.4 | 288.7 | 289.0 | 289.3 | 289.5 | 289.4 |
| 122.5° | 306.8 | 307.1 | 307.5 | 307.8 | 308.2 | 308.4 | 308.6 | 308.7 | 308.9 | 309.0 | 308.8 |
| 125° | 334.7 | 335.4 | 336.0 | 336.7 | 337.3 | 337.7 | 337.7 | 337.7 | 337.7 | 337.7 | 337.3 |
| 127.5° | 361.4 | 361.9 | 362.4 | 362.9 | 363.4 | 363.5 | 363.4 | 363.4 | 363.4 | 363.3 | 363.1 |
| 130° | 377.8 | 378.2 | 378.7 | 379.2 | 379.7 | 379.9 | 380.0 | 380.1 | 380.2 | 380.3 | 380.0 |
| 132.5° | 394.2 | 394.7 | 395.3 | 395.8 | 396.3 | 396.5 | 396.3 | 396.2 | 395.9 | 395.7 | 395.7 |
| 135° | 417.5 | 418.0 | 418.6 | 419.1 | 419.7 | 419.9 | 419.7 | 419.5 | 419.3 | 419.1 | 419.0 |
| 137.5° | 438.8 | 439.3 | 439.8 | 440.4 | 440.8 | 441.0 | 440.8 | 440.6 | 440.5 | 440.3 | 440.4 |
| 140° | 452.8 | 453.0 | 453.2 | 453.4 | 453.6 | 453.6 | 453.6 | 453.5 | 453.4 | 453.3 | 453.5 |
| 142.5° | 465.4 | 465.6 | 465.7 | 465.8 | 465.9 | 466.0 | 466.2 | 466.3 | 466.5 | 466.6 | 466.6 |
| 145° | 484.0 | 484.2 | 484.4 | 484.6 | 484.7 | 484.8 | 484.8 | 484.8 | 484.8 | 484.8 | 484.9 |
| 147.5° | 500.2 | 500.1 | 500.1 | 500.0 | 500.0 | 500.0 | 500.2 | 500.3 | 500.4 | 500.5 | 500.6 |
| 150° | 510.4 | 510.2 | 510.0 | 509.8 | 509.6 | 509.6 | 509.8 | 510.0 | 510.2 | 510.4 | 510.6 |
| 152.5° | 520.3 | 519.9 | 519.4 | 519.1 | 518.6 | 518.5 | 518.7 | 518.9 | 519.1 | 519.2 | 519.4 |
| 155° | 533.0 | 532.4 | 531.9 | 531.3 | 530.7 | 530.6 | 530.7 | 530.9 | 531.1 | 531.3 | 531.6 |
| 157.5° | 542.8 | 542.4 | 542.2 | 541.8 | 541.4 | 541.3 | 541.3 | 541.3 | 541.3 | 541.4 | 541.7 |
| 160° | 549.6 | 549.0 | 548.5 | 547.9 | 547.3 | 547.1 | 547.2 | 547.3 | 547.4 | 547.5 | 547.9 |
| 162.5° | 555.1 | 554.5 | 553.9 | 553.4 | 552.8 | 552.6 | 552.7 | 552.8 | 552.9 | 553.0 | 553.5 |
| 165° | 562.4 | 561.8 | 561.3 | 560.7 | 560.2 | 559.9 | 560.0 | 560.1 | 560.2 | 560.2 | 560.8 |
| 167.5° | 567.9 | 567.3 | 566.8 | 566.1 | 565.5 | 565.2 | 565.3 | 565.4 | 565.5 | 565.6 | 566.4 |
| 170° | 571.0 | 570.3 | 569.6 | 568.9 | 568.3 | 568.0 | 568.1 | 568.2 | 568.3 | 568.4 | 569.1 |
| 172.5° | 573.0 | 572.3 | 571.7 | 571.0 | 570.3 | 570.1 | 570.2 | 570.4 | 570.6 | 570.8 | 571.5 |
| 175° | 575.2 | 574.7 | 574.1 | 573.5 | 573.0 | 572.7 | 572.8 | 572.9 | 573.0 | 573.1 | 573.8 |
| 177.5° | 576.3 | 575.8 | 575.3 | 574.9 | 574.4 | 574.2 | 574.3 | 574.4 | 574.5 | 574.6 | 575.0 |
| 180° | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 |



TEST NUMBER: P333404-830

CATALOG NUMBER: S125DIW-S850D470U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 | 1237.3 |
| 2.5° | 1233.8 | 1235.5 | 1237.2 | 1238.0 | 1237.8 | 1237.7 | 1237.5 | 1237.3 |
| 5° | 1227.6 | 1229.5 | 1231.4 | 1232.3 | 1232.1 | 1231.9 | 1231.6 | 1231.4 |
| 7.5° | 1215.1 | 1217.0 | 1218.9 | 1219.7 | 1219.6 | 1219.4 | 1219.1 | 1218.9 |
| 10° | 1204.6 | 1206.4 | 1208.1 | 1208.8 | 1208.6 | 1208.3 | 1208.2 | 1208.0 |
| 12.5° | 1190.5 | 1191.9 | 1193.4 | 1194.0 | 1194.0 | 1193.9 | 1193.9 | 1193.8 |
| 15° | 1166.1 | 1167.2 | 1168.3 | 1168.8 | 1168.8 | 1168.8 | 1168.8 | 1168.8 |
| 17.5° | 1137.6 | 1139.0 | 1140.3 | 1140.5 | 1139.3 | 1138.3 | 1137.2 | 1136.1 |
| 20° | 1116.1 | 1117.6 | 1119.1 | 1119.3 | 1118.2 | 1117.1 | 1116.1 | 1114.9 |
| 22.5° | 1091.5 | 1092.5 | 1093.5 | 1093.6 | 1092.9 | 1092.1 | 1091.4 | 1090.7 |
| 25° | 1052.2 | 1052.6 | 1053.1 | 1052.9 | 1052.3 | 1051.7 | 1051.0 | 1050.4 |
| 27.5° | 1011.0 | 1011.1 | 1011.2 | 1010.9 | 1010.2 | 1009.6 | 1008.9 | 1008.2 |
| 30° | 981.0 | 980.5 | 980.1 | 979.6 | 978.9 | 978.3 | 977.6 | 976.9 |
| 32.5° | 950.5 | 949.7 | 949.0 | 947.9 | 946.8 | 945.6 | 944.4 | 943.3 |
| 35° | 903.3 | 902.2 | 901.2 | 899.8 | 898.0 | 896.3 | 894.5 | 892.8 |
| 37.5° | 853.7 | 852.1 | 850.5 | 849.1 | 848.2 | 847.2 | 846.2 | 845.2 |
| 40° | 819.4 | 817.4 | 815.4 | 814.1 | 813.4 | 812.8 | 812.2 | 811.5 |
| 42.5° | 785.2 | 783.4 | 781.7 | 780.2 | 779.3 | 778.3 | 777.2 | 776.3 |
| 45° | 734.8 | 732.2 | 729.6 | 727.9 | 727.4 | 726.7 | 726.0 | 725.4 |
| 47.5° | 681.6 | 679.0 | 676.4 | 674.3 | 672.8 | 671.3 | 669.7 | 668.2 |
| 50° | 645.3 | 642.4 | 639.6 | 637.4 | 635.9 | 634.4 | 632.9 | 631.4 |
| 52.5° | 610.0 | 607.5 | 605.0 | 602.9 | 601.2 | 599.6 | 597.9 | 596.2 |
| 55° | 555.1 | 553.1 | 551.1 | 549.4 | 547.8 | 546.3 | 544.8 | 543.3 |
| 57.5° | 500.5 | 497.9 | 495.4 | 493.7 | 492.9 | 492.1 | 491.3 | 490.4 |
| 60° | 463.5 | 461.4 | 459.2 | 457.3 | 455.8 | 454.3 | 452.8 | 451.3 |
| 62.5° | 428.0 | 425.7 | 423.3 | 421.5 | 420.4 | 419.1 | 418.0 | 416.8 |
| 65° | 372.0 | 370.0 | 368.1 | 366.6 | 365.8 | 365.0 | 364.0 | 363.2 |
| 67.5° | 318.6 | 316.9 | 315.3 | 314.1 | 313.7 | 313.1 | 312.5 | 312.1 |
| 70° | 283.2 | 281.9 | 280.6 | 279.6 | 278.6 | 277.8 | 276.9 | 276.1 |
| 72.5° | 250.0 | 248.5 | 247.0 | 245.8 | 245.0 | 244.1 | 243.3 | 242.3 |
| 75° | 198.4 | 197.7 | 197.1 | 196.3 | 195.5 | 194.5 | 193.7 | 192.8 |
| 77.5° | 151.2 | 150.7 | 150.3 | 149.9 | 149.2 | 148.6 | 148.1 | 147.4 |
| 80° | 120.9 | 120.7 | 120.6 | 120.2 | 119.8 | 119.3 | 118.9 | 118.5 |
| 82.5° | 92.4 | 92.0 | 91.6 | 91.4 | 91.3 | 91.2 | 91.1 | 91.0 |
| 85° | 54.4 | 54.2 | 53.9 | 53.6 | 53.2 | 52.8 | 52.3 | 51.8 |
| 87.5° | 22.0 | 22.1 | 22.1 | 22.0 | 21.7 | 21.4 | 21.1 | 20.8 |
| 90° | 7.7 | 8.2 | 8.7 | 9.1 | 9.4 | 9.7 | 10.0 | 10.3 |
| 92.5° | 7.7 | 8.2 | 8.7 | 9.0 | 9.1 | 9.3 | 9.4 | 9.5 |
| 95° | 7.7 | 8.2 | 8.7 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 97.5° | 15.6 | 13.0 | 10.3 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 100° | 46.0 | 31.9 | 17.7 | 10.5 | 10.1 | 9.7 | 9.3 | 9.0 |
| 102.5° | 89.4 | 86.6 | 84.0 | 79.5 | 73.0 | 66.5 | 60.0 | 53.6 |
| 105° | 127.1 | 127.1 | 127.1 | 127.1 | 127.0 | 126.9 | 126.8 | 126.7 |
| 107.5° | 160.9 | 160.9 | 160.9 | 160.8 | 160.5 | 160.2 | 159.9 | 159.7 |
| 110° | 182.8 | 182.5 | 182.2 | 182.1 | 182.2 | 182.3 | 182.4 | 182.5 |



TEST NUMBER: P333404-830

CATALOG NUMBER: S125DIW-S850D470U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 204.4 | 204.1 | 203.8 | 203.5 | 203.4 | 203.2 | 203.1 | 202.9 |
| 115° | 237.1 | 236.8 | 236.4 | 235.9 | 235.4 | 234.8 | 234.2 | 233.7 |
| 117.5° | 268.7 | 268.2 | 267.8 | 267.4 | 267.1 | 266.9 | 266.6 | 266.5 |
| 120° | 289.2 | 289.0 | 288.8 | 288.4 | 287.9 | 287.5 | 287.0 | 286.5 |
| 122.5° | 308.6 | 308.4 | 308.2 | 307.8 | 307.3 | 306.7 | 306.2 | 305.7 |
| 125° | 337.0 | 336.6 | 336.2 | 335.8 | 335.5 | 335.3 | 335.0 | 334.7 |
| 127.5° | 362.9 | 362.7 | 362.5 | 362.0 | 361.3 | 360.6 | 359.9 | 359.2 |
| 130° | 379.8 | 379.5 | 379.2 | 378.8 | 378.3 | 377.9 | 377.4 | 376.9 |
| 132.5° | 395.6 | 395.5 | 395.5 | 395.2 | 394.7 | 394.3 | 393.8 | 393.3 |
| 135° | 418.8 | 418.6 | 418.4 | 418.0 | 417.5 | 416.9 | 416.3 | 415.8 |
| 137.5° | 440.4 | 440.5 | 440.5 | 440.3 | 439.7 | 439.2 | 438.8 | 438.3 |
| 140° | 453.6 | 453.8 | 454.0 | 453.8 | 453.3 | 452.7 | 452.1 | 451.6 |
| 142.5° | 466.7 | 466.7 | 466.7 | 466.5 | 465.9 | 465.3 | 464.8 | 464.2 |
| 145° | 485.0 | 485.1 | 485.2 | 484.9 | 484.4 | 483.8 | 483.2 | 482.7 |
| 147.5° | 500.8 | 500.9 | 501.0 | 500.7 | 500.0 | 499.4 | 498.6 | 497.9 |
| 150° | 510.8 | 511.0 | 511.1 | 510.9 | 510.1 | 509.3 | 508.6 | 507.8 |
| 152.5° | 519.6 | 519.8 | 520.0 | 519.8 | 519.1 | 518.4 | 517.7 | 517.1 |
| 155° | 531.9 | 532.2 | 532.4 | 532.2 | 531.4 | 530.7 | 529.9 | 529.1 |
| 157.5° | 542.0 | 542.2 | 542.5 | 542.3 | 541.6 | 540.8 | 540.1 | 539.3 |
| 160° | 548.3 | 548.7 | 549.0 | 548.8 | 548.1 | 547.3 | 546.6 | 545.8 |
| 162.5° | 554.0 | 554.6 | 555.1 | 555.0 | 554.1 | 553.3 | 552.4 | 551.6 |
| 165° | 561.5 | 562.0 | 562.6 | 562.5 | 561.8 | 560.9 | 560.2 | 559.4 |
| 167.5° | 567.0 | 567.7 | 568.4 | 568.4 | 567.4 | 566.6 | 565.7 | 564.9 |
| 170° | 569.9 | 570.7 | 571.5 | 571.4 | 570.5 | 569.7 | 568.8 | 568.0 |
| 172.5° | 572.1 | 572.8 | 573.5 | 573.4 | 572.6 | 571.7 | 570.9 | 570.0 |
| 175° | 574.6 | 575.3 | 576.1 | 576.1 | 575.2 | 574.4 | 573.5 | 572.7 |
| 177.5° | 575.6 | 576.1 | 576.6 | 576.6 | 576.0 | 575.4 | 574.8 | 574.2 |
| 180° | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 |

(END OF REPORT)