

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: P242909

Luminaire Tested: **S125RDR-S610D830-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D830-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.6 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

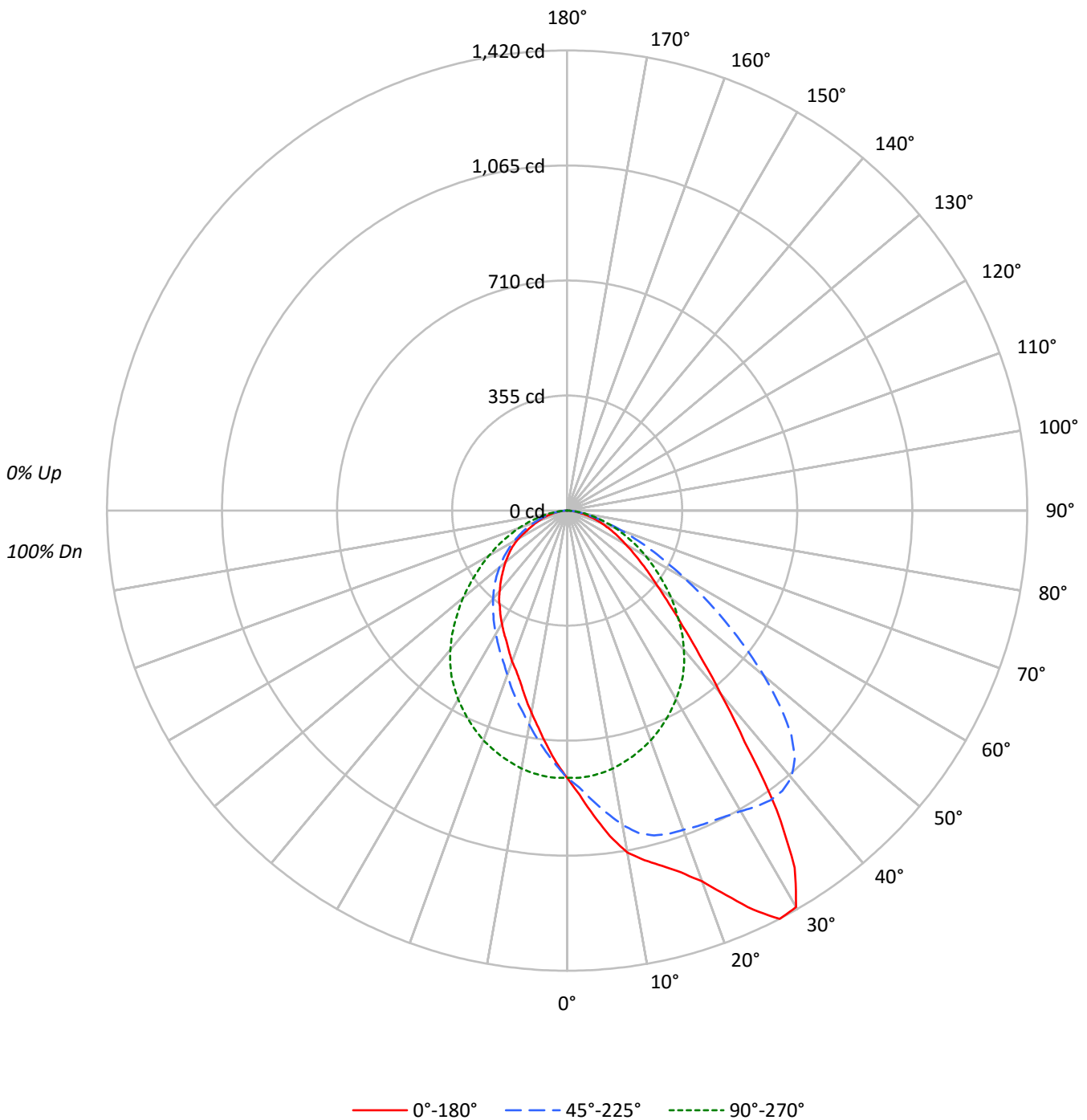
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242909

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242909

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-A-W

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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 75 | | | | | 73 | | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 76 | 70 | 66 | 73 | 69 | 65 | | | | | 63 | | | | |
| 4 | 85 | 74 | 66 | 59 | 83 | 73 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | | | | | 55 | | | | |
| 5 | 79 | 66 | 58 | 52 | 77 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | | | | | 48 | | | | |
| 6 | 73 | 60 | 52 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 45 | 56 | 49 | 44 | 54 | 49 | 44 | | | | | 42 | | | | |
| 7 | 68 | 55 | 46 | 40 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 39 | | | | | 37 | | | | |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 42 | 36 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 35 | | | | | 34 | | | | |
| 9 | 59 | 46 | 38 | 33 | 58 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | | | | | 30 | | | | |
| 10 | 55 | 42 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 39 | 33 | 29 | | | | | 28 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 5859 | 5859 | 5859 |
| 5° | 6740 | 5866 | 5180 |
| 10° | 7732 | 5836 | 4571 |
| 15° | 8351 | 5776 | 4063 |
| 20° | 9208 | 5707 | 3751 |
| 25° | 10657 | 5615 | 3481 |
| 30° | 11596 | 5517 | 3305 |
| 35° | 9782 | 5405 | 3142 |
| 40° | 6831 | 5202 | 3001 |
| 45° | 5068 | 4928 | 2864 |
| 50° | 4040 | 4643 | 2747 |
| 55° | 3430 | 4289 | 2642 |
| 60° | 2962 | 3973 | 2472 |
| 65° | 2640 | 3631 | 2127 |
| 70° | 2321 | 3325 | 1941 |
| 75° | 2007 | 2881 | 1821 |
| 80° | 1523 | 2423 | 1523 |
| 85° | 1272 | 1900 | 1435 |



TEST NUMBER: P242909

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.0 | 3.7 |
| 10°-20° | 231.7 | 10.9 |
| 20°-30° | 367.4 | 17.2 |
| 30°-40° | 444.0 | 20.8 |
| 40°-50° | 395.4 | 18.5 |
| 50°-60° | 303.2 | 14.2 |
| 60°-70° | 196.9 | 9.2 |
| 70°-80° | 95.5 | 4.5 |
| 80°-90° | 22.5 | 1.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 678.2 | 31.8 |
| 0°-40° | 1122.2 | 52.5 |
| 0°-60° | 1820.7 | 85.3 |
| 0°-90° | 2135.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2135.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 824 | 824 | 824 | 824 | 824 | |
| 5° | 945 | 898 | 822 | 747 | 726 | 94 |
| 15° | 1135 | 1038 | 785 | 605 | 552 | 325 |
| 25° | 1359 | 1057 | 716 | 487 | 444 | 626 |
| 35° | 1127 | 1092 | 623 | 397 | 362 | 683 |
| 45° | 504 | 978 | 490 | 314 | 285 | 400 |
| 55° | 277 | 594 | 346 | 231 | 213 | 251 |
| 65° | 157 | 283 | 216 | 148 | 126 | 156 |
| 75° | 73 | 99 | 105 | 73 | 66 | 78 |
| 85° | 16 | 17 | 23 | 19 | 18 | 18 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242909

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 |
| 2.5° | 877.7 | 877.0 | 878.4 | 874.7 | 875.0 | 869.3 | 869.3 | 864.9 | 859.1 | 854.7 | 852.7 |
| 5° | 944.7 | 945.4 | 944.0 | 939.0 | 935.6 | 930.5 | 924.8 | 914.6 | 906.1 | 898.0 | 891.6 |
| 7.5° | 1013.1 | 1013.7 | 1009.3 | 1008.3 | 999.5 | 994.1 | 981.3 | 968.1 | 956.6 | 941.3 | 930.5 |
| 10° | 1071.3 | 1070.9 | 1066.2 | 1062.5 | 1055.0 | 1045.5 | 1033.0 | 1016.8 | 1001.6 | 984.6 | 968.4 |
| 12.5° | 1105.1 | 1104.1 | 1103.4 | 1098.7 | 1091.9 | 1083.8 | 1073.6 | 1057.7 | 1038.1 | 1019.2 | 999.5 |
| 15° | 1134.9 | 1132.5 | 1128.1 | 1122.4 | 1112.5 | 1102.7 | 1090.9 | 1076.7 | 1058.7 | 1037.8 | 1020.2 |
| 17.5° | 1170.7 | 1171.1 | 1164.3 | 1158.2 | 1145.4 | 1129.1 | 1111.5 | 1089.9 | 1066.9 | 1045.5 | 1028.0 |
| 20° | 1217.4 | 1216.4 | 1209.7 | 1194.1 | 1178.9 | 1157.2 | 1136.2 | 1108.1 | 1078.4 | 1048.3 | 1024.9 |
| 22.5° | 1284.4 | 1281.4 | 1274.3 | 1252.6 | 1226.9 | 1197.5 | 1162.6 | 1126.8 | 1089.2 | 1054.0 | 1021.5 |
| 25° | 1358.9 | 1356.8 | 1343.0 | 1319.3 | 1286.1 | 1243.2 | 1201.2 | 1154.2 | 1102.4 | 1057.4 | 1020.2 |
| 27.5° | 1420.5 | 1416.4 | 1403.9 | 1381.5 | 1349.1 | 1302.7 | 1244.8 | 1183.9 | 1122.4 | 1063.1 | 1012.0 |
| 30° | 1413.0 | 1418.1 | 1416.7 | 1407.6 | 1384.6 | 1344.0 | 1291.5 | 1220.8 | 1144.0 | 1071.3 | 1007.3 |
| 32.5° | 1306.8 | 1311.2 | 1326.4 | 1351.1 | 1358.5 | 1348.4 | 1312.5 | 1248.6 | 1168.4 | 1083.1 | 1003.6 |
| 35° | 1127.4 | 1133.5 | 1156.5 | 1192.7 | 1240.1 | 1279.7 | 1287.8 | 1252.6 | 1181.2 | 1092.2 | 999.9 |
| 37.5° | 899.4 | 939.0 | 954.5 | 991.4 | 1065.8 | 1137.9 | 1200.5 | 1214.7 | 1176.2 | 1090.2 | 995.5 |
| 40° | 736.3 | 744.4 | 778.9 | 821.9 | 882.1 | 957.9 | 1057.7 | 1129.8 | 1132.2 | 1076.7 | 981.3 |
| 42.5° | 603.6 | 614.5 | 635.4 | 667.6 | 717.0 | 792.8 | 896.7 | 997.5 | 1052.0 | 1039.5 | 962.6 |
| 45° | 504.2 | 511.9 | 529.2 | 555.6 | 595.2 | 657.8 | 746.4 | 856.4 | 943.7 | 977.9 | 926.4 |
| 47.5° | 426.3 | 430.4 | 446.3 | 467.6 | 498.1 | 545.4 | 617.5 | 717.0 | 820.9 | 890.2 | 876.7 |
| 50° | 365.4 | 370.2 | 381.7 | 396.9 | 421.6 | 460.2 | 515.0 | 594.5 | 702.4 | 792.1 | 810.0 |
| 52.5° | 318.1 | 321.8 | 327.9 | 342.1 | 361.4 | 388.8 | 430.4 | 500.4 | 594.8 | 691.6 | 739.0 |
| 55° | 276.8 | 279.5 | 285.2 | 293.4 | 309.6 | 330.9 | 369.2 | 418.9 | 497.4 | 593.5 | 654.4 |
| 57.5° | 241.6 | 242.9 | 246.3 | 254.5 | 266.3 | 282.2 | 311.3 | 356.6 | 413.5 | 503.8 | 570.8 |
| 60° | 208.4 | 209.8 | 214.5 | 219.6 | 228.4 | 242.6 | 264.3 | 293.7 | 347.8 | 419.2 | 487.2 |
| 62.5° | 182.0 | 182.7 | 184.1 | 189.1 | 196.6 | 206.7 | 222.6 | 245.3 | 285.6 | 346.1 | 409.4 |
| 65° | 157.0 | 157.3 | 158.0 | 162.1 | 166.8 | 174.9 | 186.1 | 203.0 | 235.5 | 282.9 | 339.7 |
| 67.5° | 132.0 | 132.6 | 135.0 | 136.4 | 142.1 | 146.2 | 153.3 | 166.8 | 191.9 | 225.7 | 271.7 |
| 70° | 111.7 | 111.3 | 113.7 | 115.4 | 117.1 | 122.1 | 126.5 | 137.0 | 151.2 | 175.6 | 212.5 |
| 72.5° | 92.7 | 91.7 | 92.4 | 92.7 | 95.1 | 98.1 | 102.5 | 107.9 | 118.1 | 133.0 | 159.0 |
| 75° | 73.1 | 73.4 | 73.4 | 74.1 | 75.8 | 77.1 | 78.5 | 81.9 | 88.0 | 99.1 | 114.4 |
| 77.5° | 54.8 | 54.1 | 55.8 | 55.8 | 57.2 | 58.9 | 59.9 | 61.2 | 63.6 | 68.7 | 77.8 |
| 80° | 37.2 | 37.2 | 37.6 | 38.6 | 38.2 | 38.9 | 40.6 | 42.0 | 45.0 | 47.7 | 50.4 |
| 82.5° | 26.4 | 26.1 | 26.4 | 26.4 | 26.4 | 27.1 | 27.4 | 27.4 | 28.1 | 29.1 | 30.8 |
| 85° | 15.6 | 15.6 | 15.9 | 15.9 | 16.2 | 16.2 | 16.6 | 16.6 | 16.6 | 16.9 | 17.3 |
| 87.5° | 7.4 | 7.1 | 6.8 | 6.8 | 7.1 | 7.8 | 7.4 | 7.1 | 7.1 | 7.1 | 7.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242909

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 |
| 2.5° | 852.7 | 850.3 | 845.9 | 841.9 | 836.8 | 832.4 | 829.3 | 825.6 | 820.9 | 815.1 | 810.4 |
| 5° | 884.5 | 877.0 | 867.2 | 858.8 | 847.9 | 839.5 | 830.7 | 822.2 | 813.8 | 802.9 | 793.5 |
| 7.5° | 919.7 | 905.1 | 891.6 | 874.0 | 858.1 | 844.2 | 830.7 | 816.8 | 803.6 | 788.7 | 774.9 |
| 10° | 951.5 | 932.9 | 912.2 | 888.5 | 866.9 | 846.3 | 827.3 | 808.7 | 789.1 | 771.8 | 753.2 |
| 12.5° | 981.3 | 955.9 | 931.5 | 900.1 | 873.0 | 846.6 | 821.2 | 796.8 | 775.5 | 751.8 | 731.5 |
| 15° | 996.8 | 973.1 | 946.7 | 910.2 | 874.0 | 843.5 | 815.1 | 785.0 | 759.0 | 733.9 | 711.6 |
| 17.5° | 1006.0 | 980.9 | 950.5 | 914.9 | 876.0 | 838.1 | 802.3 | 770.1 | 740.3 | 711.6 | 686.9 |
| 20° | 1001.9 | 977.9 | 946.4 | 912.9 | 870.6 | 830.7 | 791.1 | 754.6 | 720.4 | 689.6 | 662.9 |
| 22.5° | 992.1 | 967.0 | 936.9 | 901.1 | 861.5 | 818.5 | 775.5 | 735.9 | 699.7 | 667.6 | 637.8 |
| 25° | 982.3 | 948.4 | 917.3 | 882.8 | 844.6 | 802.6 | 759.0 | 716.0 | 677.7 | 645.3 | 613.5 |
| 27.5° | 972.8 | 931.9 | 893.3 | 860.1 | 819.2 | 781.3 | 738.7 | 694.3 | 654.4 | 621.6 | 589.1 |
| 30° | 958.9 | 911.6 | 867.9 | 829.0 | 790.8 | 755.2 | 715.3 | 672.3 | 631.1 | 596.9 | 563.7 |
| 32.5° | 941.7 | 890.6 | 841.5 | 795.2 | 758.6 | 723.4 | 688.2 | 647.6 | 607.7 | 572.2 | 538.3 |
| 35° | 927.8 | 863.5 | 811.4 | 763.7 | 722.7 | 688.6 | 656.1 | 622.9 | 582.7 | 546.1 | 513.3 |
| 37.5° | 908.5 | 837.8 | 778.9 | 726.8 | 684.2 | 650.3 | 624.3 | 592.8 | 555.3 | 519.7 | 489.3 |
| 40° | 891.3 | 809.4 | 743.4 | 692.0 | 646.6 | 610.4 | 586.4 | 560.7 | 527.2 | 494.4 | 463.9 |
| 42.5° | 868.2 | 783.3 | 707.5 | 653.4 | 607.7 | 573.2 | 548.8 | 527.2 | 500.4 | 470.0 | 436.8 |
| 45° | 836.8 | 748.1 | 670.6 | 613.1 | 567.1 | 532.9 | 510.3 | 490.3 | 469.0 | 440.6 | 412.1 |
| 47.5° | 799.2 | 714.6 | 633.1 | 569.8 | 525.5 | 493.3 | 471.0 | 454.4 | 438.9 | 414.2 | 385.4 |
| 50° | 752.2 | 671.3 | 592.1 | 531.2 | 483.2 | 453.1 | 432.4 | 419.9 | 406.0 | 384.0 | 361.0 |
| 52.5° | 696.7 | 626.7 | 549.5 | 486.9 | 442.2 | 414.5 | 394.9 | 382.4 | 371.5 | 354.6 | 333.0 |
| 55° | 637.8 | 574.5 | 503.5 | 447.0 | 405.4 | 376.9 | 358.0 | 346.1 | 339.4 | 324.2 | 306.9 |
| 57.5° | 571.2 | 522.4 | 458.1 | 403.0 | 365.4 | 337.0 | 322.8 | 312.3 | 304.5 | 293.4 | 280.5 |
| 60° | 500.8 | 469.0 | 412.8 | 361.0 | 327.2 | 300.5 | 287.9 | 279.5 | 272.4 | 263.2 | 253.8 |
| 62.5° | 429.4 | 408.4 | 361.4 | 318.7 | 288.3 | 267.0 | 255.5 | 248.0 | 239.6 | 234.1 | 225.0 |
| 65° | 367.1 | 346.5 | 312.6 | 277.8 | 249.0 | 231.1 | 222.6 | 215.9 | 210.8 | 204.0 | 197.6 |
| 67.5° | 298.1 | 288.6 | 263.6 | 237.5 | 216.6 | 199.3 | 191.9 | 186.4 | 180.7 | 176.6 | 171.9 |
| 70° | 235.5 | 231.4 | 214.9 | 199.0 | 179.7 | 168.8 | 162.1 | 160.0 | 152.6 | 148.5 | 145.5 |
| 72.5° | 180.0 | 178.7 | 170.9 | 161.1 | 148.9 | 139.7 | 133.7 | 131.3 | 127.2 | 124.2 | 122.5 |
| 75° | 130.9 | 131.6 | 129.9 | 122.8 | 117.8 | 111.7 | 106.2 | 104.9 | 101.5 | 98.8 | 97.1 |
| 77.5° | 89.3 | 92.7 | 92.0 | 91.7 | 89.3 | 84.9 | 82.6 | 81.5 | 77.8 | 76.8 | 76.5 |
| 80° | 56.8 | 60.6 | 64.0 | 63.6 | 62.9 | 61.9 | 60.2 | 59.2 | 57.5 | 56.5 | 55.8 |
| 82.5° | 33.2 | 36.5 | 39.3 | 41.6 | 41.6 | 40.6 | 39.6 | 39.3 | 39.3 | 38.6 | 38.6 |
| 85° | 17.9 | 18.6 | 19.6 | 22.0 | 23.7 | 24.0 | 23.7 | 23.3 | 22.3 | 22.7 | 23.0 |
| 87.5° | 7.8 | 7.8 | 8.1 | 8.1 | 7.8 | 9.5 | 10.5 | 10.8 | 10.2 | 9.5 | 8.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242909

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 | 824.3 |
| 2.5° | 807.0 | 802.3 | 798.9 | 792.1 | 787.4 | 785.3 | 781.6 | 780.6 | 784.3 | 781.6 | 781.3 |
| 5° | 786.4 | 776.5 | 768.8 | 761.0 | 752.5 | 747.1 | 739.0 | 737.6 | 735.6 | 732.6 | 731.9 |
| 7.5° | 762.3 | 750.2 | 741.0 | 728.2 | 717.7 | 709.2 | 699.1 | 695.0 | 693.0 | 689.2 | 683.2 |
| 10° | 738.0 | 722.7 | 709.2 | 696.4 | 682.5 | 671.3 | 661.2 | 653.4 | 648.3 | 643.6 | 641.5 |
| 12.5° | 713.9 | 698.4 | 680.1 | 663.9 | 648.0 | 635.1 | 623.6 | 619.2 | 613.5 | 607.7 | 602.3 |
| 15° | 688.9 | 668.3 | 649.3 | 631.4 | 618.2 | 604.7 | 593.8 | 586.4 | 577.9 | 575.6 | 566.4 |
| 17.5° | 662.2 | 642.9 | 620.6 | 601.3 | 586.4 | 572.2 | 560.3 | 551.5 | 545.1 | 536.0 | 531.6 |
| 20° | 637.5 | 613.5 | 591.8 | 574.5 | 557.6 | 540.0 | 527.8 | 520.7 | 514.7 | 507.5 | 504.2 |
| 22.5° | 611.1 | 587.7 | 565.4 | 544.4 | 527.2 | 509.9 | 502.1 | 494.7 | 487.6 | 481.2 | 476.4 |
| 25° | 585.4 | 561.7 | 538.3 | 517.4 | 499.4 | 486.9 | 476.8 | 468.3 | 464.6 | 458.1 | 453.4 |
| 27.5° | 559.7 | 534.6 | 510.9 | 488.9 | 475.1 | 462.5 | 454.4 | 447.7 | 440.6 | 434.8 | 430.4 |
| 30° | 535.0 | 509.2 | 482.8 | 466.3 | 451.4 | 439.5 | 430.4 | 424.0 | 418.9 | 413.8 | 410.8 |
| 32.5° | 510.3 | 483.5 | 460.9 | 442.6 | 428.7 | 418.9 | 409.4 | 403.3 | 397.9 | 392.2 | 388.4 |
| 35° | 483.5 | 456.5 | 437.5 | 419.9 | 406.0 | 396.6 | 390.1 | 381.3 | 376.9 | 372.9 | 369.2 |
| 37.5° | 459.5 | 433.8 | 412.8 | 397.6 | 384.7 | 375.6 | 367.1 | 362.7 | 357.0 | 353.6 | 350.5 |
| 40° | 432.4 | 409.4 | 390.8 | 374.6 | 365.8 | 355.3 | 347.5 | 341.4 | 337.3 | 332.6 | 329.2 |
| 42.5° | 408.1 | 387.1 | 369.2 | 354.9 | 343.4 | 335.0 | 327.5 | 321.4 | 316.0 | 313.0 | 310.3 |
| 45° | 385.4 | 364.1 | 346.5 | 333.0 | 322.8 | 314.3 | 306.6 | 303.5 | 296.7 | 292.7 | 291.3 |
| 47.5° | 361.7 | 342.4 | 325.2 | 312.6 | 302.2 | 294.4 | 286.9 | 280.2 | 276.8 | 272.7 | 270.7 |
| 50° | 337.7 | 319.4 | 303.5 | 291.3 | 281.2 | 272.4 | 265.6 | 261.6 | 256.5 | 252.8 | 250.1 |
| 52.5° | 313.7 | 297.1 | 281.2 | 269.7 | 261.2 | 252.4 | 244.6 | 240.6 | 235.8 | 233.8 | 232.1 |
| 55° | 291.0 | 273.1 | 259.5 | 248.0 | 238.9 | 230.8 | 223.7 | 219.6 | 216.6 | 214.2 | 213.5 |
| 57.5° | 264.9 | 250.4 | 237.5 | 227.4 | 217.6 | 209.8 | 203.4 | 199.6 | 196.9 | 196.6 | 194.2 |
| 60° | 239.6 | 226.7 | 215.2 | 204.0 | 195.9 | 188.8 | 183.4 | 179.0 | 176.3 | 175.9 | 175.3 |
| 62.5° | 214.2 | 202.0 | 191.5 | 182.0 | 174.9 | 168.2 | 163.1 | 158.0 | 156.7 | 154.6 | 152.9 |
| 65° | 189.1 | 178.0 | 169.2 | 161.4 | 153.6 | 147.9 | 142.8 | 139.7 | 136.0 | 134.0 | 130.3 |
| 67.5° | 164.4 | 155.3 | 146.9 | 140.4 | 134.0 | 128.2 | 123.8 | 119.4 | 116.7 | 115.0 | 112.0 |
| 70° | 140.1 | 133.3 | 124.9 | 117.8 | 113.0 | 108.6 | 105.2 | 100.2 | 98.5 | 97.1 | 95.8 |
| 72.5° | 117.1 | 111.3 | 104.6 | 99.1 | 94.4 | 90.3 | 86.3 | 84.6 | 82.9 | 81.5 | 80.9 |
| 75° | 95.8 | 90.0 | 83.9 | 79.9 | 76.5 | 73.1 | 71.1 | 69.4 | 68.7 | 68.3 | 67.0 |
| 77.5° | 74.4 | 71.1 | 66.0 | 62.3 | 59.9 | 58.5 | 56.5 | 55.8 | 56.2 | 54.5 | 54.1 |
| 80° | 53.8 | 52.1 | 48.0 | 46.7 | 45.0 | 43.6 | 42.6 | 40.9 | 39.3 | 38.6 | 37.6 |
| 82.5° | 36.5 | 34.9 | 33.8 | 31.5 | 30.1 | 29.4 | 28.4 | 28.1 | 28.8 | 27.7 | 27.4 |
| 85° | 21.3 | 19.6 | 18.9 | 18.6 | 17.9 | 18.6 | 18.3 | 17.9 | 17.6 | 17.3 | 17.6 |
| 87.5° | 8.5 | 8.5 | 8.1 | 8.8 | 7.8 | 8.1 | 8.1 | 7.8 | 7.8 | 7.8 | 7.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242909

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 824.3 | 824.3 | 824.3 | 824.3 |
| 2.5° | 780.9 | 777.2 | 776.2 | 777.6 |
| 5° | 728.5 | 725.1 | 726.8 | 726.1 |
| 7.5° | 684.2 | 679.8 | 674.7 | 676.1 |
| 10° | 637.1 | 633.8 | 631.7 | 633.4 |
| 12.5° | 597.6 | 595.9 | 594.2 | 592.8 |
| 15° | 562.4 | 558.3 | 556.6 | 552.2 |
| 17.5° | 528.5 | 527.2 | 522.8 | 519.7 |
| 20° | 499.1 | 497.7 | 493.3 | 496.0 |
| 22.5° | 474.7 | 471.3 | 470.7 | 469.0 |
| 25° | 452.1 | 447.7 | 446.0 | 443.9 |
| 27.5° | 429.0 | 426.7 | 424.3 | 423.6 |
| 30° | 406.7 | 404.3 | 402.7 | 402.7 |
| 32.5° | 386.8 | 385.1 | 383.4 | 383.0 |
| 35° | 367.5 | 364.8 | 364.1 | 362.1 |
| 37.5° | 347.2 | 344.8 | 344.8 | 345.1 |
| 40° | 327.9 | 326.2 | 325.8 | 323.5 |
| 42.5° | 307.2 | 306.6 | 305.2 | 304.5 |
| 45° | 289.0 | 286.6 | 286.6 | 284.9 |
| 47.5° | 269.7 | 267.6 | 268.0 | 266.0 |
| 50° | 250.4 | 249.4 | 249.0 | 248.4 |
| 52.5° | 231.1 | 230.8 | 232.5 | 230.8 |
| 55° | 214.2 | 213.2 | 215.2 | 213.2 |
| 57.5° | 194.2 | 193.5 | 195.6 | 194.2 |
| 60° | 174.6 | 172.6 | 173.6 | 173.9 |
| 62.5° | 151.2 | 150.2 | 150.9 | 148.9 |
| 65° | 129.6 | 128.6 | 127.2 | 126.5 |
| 67.5° | 112.7 | 109.6 | 109.6 | 110.3 |
| 70° | 93.7 | 93.7 | 93.4 | 93.4 |
| 72.5° | 80.5 | 80.2 | 79.5 | 79.2 |
| 75° | 67.0 | 67.3 | 66.7 | 66.3 |
| 77.5° | 52.4 | 50.8 | 51.4 | 50.8 |
| 80° | 37.6 | 37.2 | 38.2 | 37.2 |
| 82.5° | 27.7 | 27.4 | 27.7 | 27.1 |
| 85° | 17.9 | 17.6 | 17.3 | 17.6 |
| 87.5° | 7.8 | 7.4 | 7.4 | 7.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)