

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: P243622

Luminaire Tested: **S124RDR-H575D940-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-70)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H575D940-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1970.1 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.23 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

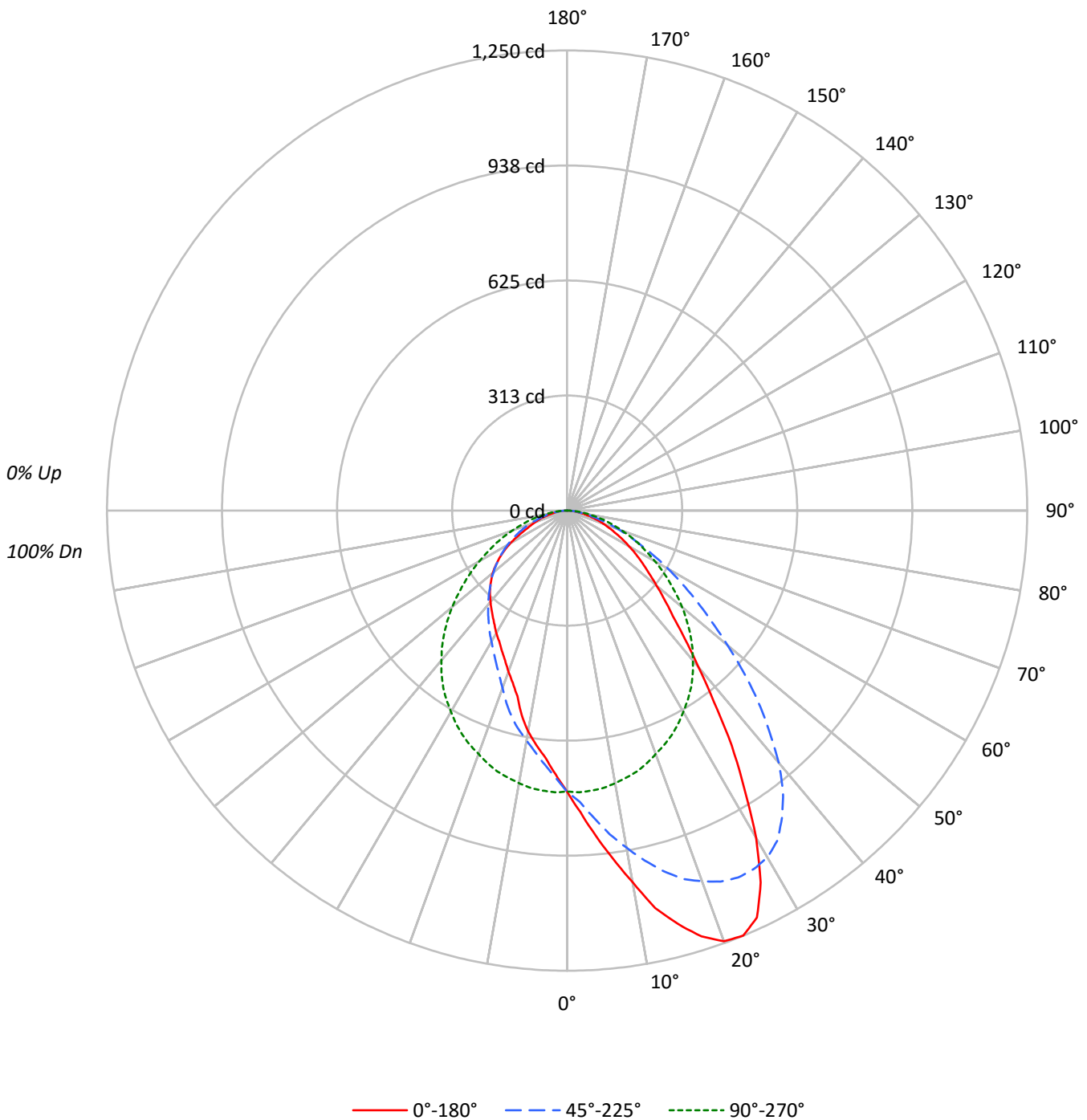
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243622

CATALOG NUMBER: S124RDR-H575D940-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243622

CATALOG NUMBER: S124RDR-H575D940-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 93 | 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 | 68 | 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 | 46 | 71 | 59 | 51 | 45 | 58 | 50 | 45 | 56 | 50 | 45 | 54 | 49 | 44 | 42 |
| 7 | 68 | 55 | 46 | 41 | 66 | 54 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 63 | 50 | 42 | 36 | 62 | 50 | 42 | 36 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 9 | 59 | 46 | 38 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 32 | 31 |
| 10 | 56 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 39 | 34 | 30 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 6785 | 6785 | 6785 |
| 5° | 7904 | 6813 | 6015 |
| 10° | 9256 | 6785 | 5500 |
| 15° | 10695 | 6751 | 4804 |
| 20° | 11776 | 6656 | 4403 |
| 25° | 11965 | 6595 | 4116 |
| 30° | 10532 | 6477 | 3948 |
| 35° | 8451 | 6368 | 3819 |
| 40° | 6430 | 6164 | 3760 |
| 45° | 5104 | 5937 | 3715 |
| 50° | 4382 | 5643 | 3651 |
| 55° | 3870 | 5278 | 3473 |
| 60° | 3467 | 4898 | 3180 |
| 65° | 3052 | 4526 | 2675 |
| 70° | 2718 | 4109 | 2409 |
| 75° | 2370 | 3737 | 2143 |
| 80° | 2007 | 3210 | 1976 |
| 85° | 1754 | 2754 | 1999 |



TEST NUMBER: P243622

CATALOG NUMBER: S124RDR-H575D940-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.1 | 3.8 |
| 10°-20° | 224.6 | 11.4 |
| 20°-30° | 350.5 | 17.8 |
| 30°-40° | 390.9 | 19.8 |
| 40°-50° | 351.4 | 17.8 |
| 50°-60° | 277.6 | 14.1 |
| 60°-70° | 184.4 | 9.4 |
| 70°-80° | 92.5 | 4.7 |
| 80°-90° | 24.1 | 1.2 |
| 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° | 649.2 | 33.0 |
| 0°-40° | 1040.1 | 52.8 |
| 0°-60° | 1669.1 | 84.7 |
| 0°-90° | 1970.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1970.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 763 | 763 | 763 | 763 | 763 | |
| 5° | 886 | 838 | 764 | 693 | 674 | 89 |
| 15° | 1162 | 1014 | 734 | 581 | 522 | 330 |
| 25° | 1220 | 1100 | 672 | 457 | 420 | 546 |
| 35° | 779 | 1018 | 587 | 371 | 352 | 484 |
| 45° | 406 | 733 | 472 | 297 | 296 | 322 |
| 55° | 250 | 430 | 341 | 225 | 224 | 225 |
| 65° | 145 | 221 | 215 | 147 | 127 | 145 |
| 75° | 69 | 87 | 109 | 73 | 62 | 74 |
| 85° | 17 | 18 | 27 | 20 | 20 | 19 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243622

CATALOG NUMBER: S124RDR-H575D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 |
| 2.5° | 819.8 | 816.8 | 816.5 | 812.7 | 812.4 | 808.5 | 807.3 | 804.0 | 797.5 | 792.5 | 792.7 |
| 5° | 885.8 | 883.4 | 883.1 | 879.2 | 878.1 | 873.3 | 865.9 | 857.0 | 846.5 | 837.9 | 832.3 |
| 7.5° | 953.6 | 957.7 | 953.3 | 953.3 | 944.6 | 939.0 | 924.4 | 917.0 | 899.2 | 886.7 | 873.6 |
| 10° | 1025.5 | 1029.4 | 1027.6 | 1024.0 | 1012.7 | 1001.1 | 986.0 | 971.4 | 949.7 | 930.1 | 917.0 |
| 12.5° | 1105.7 | 1094.2 | 1101.6 | 1090.6 | 1081.4 | 1062.9 | 1048.4 | 1019.2 | 1002.0 | 973.5 | 947.9 |
| 15° | 1162.2 | 1157.8 | 1157.5 | 1150.0 | 1139.9 | 1119.7 | 1104.0 | 1073.6 | 1044.2 | 1014.2 | 985.4 |
| 17.5° | 1212.8 | 1213.3 | 1209.2 | 1197.3 | 1184.2 | 1164.6 | 1143.2 | 1116.1 | 1082.6 | 1049.3 | 1015.1 |
| 20° | 1244.9 | 1245.2 | 1242.2 | 1235.9 | 1221.7 | 1203.8 | 1181.8 | 1146.5 | 1108.4 | 1071.6 | 1037.4 |
| 22.5° | 1249.6 | 1250.5 | 1249.6 | 1245.7 | 1235.9 | 1221.4 | 1201.2 | 1171.1 | 1132.8 | 1090.6 | 1049.9 |
| 25° | 1219.9 | 1222.9 | 1223.2 | 1228.5 | 1223.5 | 1217.8 | 1202.9 | 1177.7 | 1142.3 | 1099.5 | 1055.2 |
| 27.5° | 1138.4 | 1146.8 | 1154.5 | 1164.0 | 1172.6 | 1180.4 | 1181.5 | 1168.2 | 1137.8 | 1098.0 | 1055.8 |
| 30° | 1026.1 | 1035.9 | 1051.3 | 1061.5 | 1088.2 | 1105.2 | 1128.0 | 1133.1 | 1118.5 | 1087.9 | 1047.2 |
| 32.5° | 895.3 | 905.7 | 911.6 | 944.9 | 983.3 | 1010.9 | 1049.0 | 1071.6 | 1077.2 | 1062.6 | 1029.4 |
| 35° | 778.8 | 780.6 | 785.0 | 822.8 | 860.8 | 902.7 | 950.0 | 989.2 | 1016.0 | 1017.5 | 1001.1 |
| 37.5° | 653.9 | 656.0 | 673.6 | 702.4 | 735.4 | 781.5 | 835.8 | 891.7 | 940.8 | 963.4 | 958.6 |
| 40° | 554.1 | 553.5 | 572.2 | 597.2 | 629.3 | 677.1 | 733.3 | 794.2 | 846.5 | 893.8 | 905.1 |
| 42.5° | 473.2 | 475.3 | 491.3 | 505.9 | 536.8 | 570.4 | 630.5 | 693.8 | 760.9 | 812.7 | 847.1 |
| 45° | 406.0 | 411.4 | 422.4 | 436.1 | 459.2 | 490.2 | 539.2 | 602.2 | 670.9 | 733.0 | 774.3 |
| 47.5° | 359.7 | 361.2 | 366.8 | 383.7 | 399.2 | 424.2 | 466.1 | 519.6 | 580.5 | 650.1 | 704.5 |
| 50° | 316.9 | 320.4 | 322.5 | 332.6 | 347.8 | 371.6 | 404.0 | 443.8 | 504.1 | 568.0 | 636.1 |
| 52.5° | 280.0 | 282.1 | 285.9 | 295.2 | 307.1 | 323.7 | 349.3 | 384.3 | 434.6 | 493.7 | 557.9 |
| 55° | 249.7 | 250.0 | 253.8 | 260.4 | 269.6 | 282.4 | 306.8 | 332.0 | 376.6 | 430.4 | 488.7 |
| 57.5° | 222.3 | 220.6 | 224.1 | 228.0 | 236.9 | 247.9 | 263.7 | 289.5 | 324.3 | 370.1 | 422.7 |
| 60° | 195.0 | 196.5 | 196.2 | 200.6 | 205.4 | 216.4 | 229.8 | 246.7 | 275.2 | 317.2 | 361.7 |
| 62.5° | 169.4 | 169.1 | 172.1 | 174.8 | 178.0 | 187.0 | 198.0 | 211.9 | 234.2 | 265.1 | 308.2 |
| 65° | 145.1 | 145.6 | 148.0 | 150.1 | 153.7 | 159.3 | 167.6 | 178.9 | 196.8 | 220.6 | 256.8 |
| 67.5° | 123.1 | 125.1 | 126.3 | 126.9 | 130.2 | 134.4 | 141.5 | 150.7 | 162.9 | 181.9 | 212.2 |
| 70° | 104.6 | 105.2 | 105.8 | 107.9 | 109.4 | 111.8 | 117.1 | 122.2 | 133.2 | 147.1 | 169.1 |
| 72.5° | 87.4 | 86.8 | 88.6 | 89.2 | 89.8 | 92.1 | 95.4 | 98.1 | 105.2 | 117.1 | 130.8 |
| 75° | 69.0 | 69.3 | 69.6 | 70.4 | 72.8 | 73.1 | 74.6 | 77.6 | 82.6 | 87.4 | 96.6 |
| 77.5° | 51.7 | 52.6 | 52.3 | 53.2 | 54.1 | 55.0 | 55.6 | 58.3 | 61.8 | 65.7 | 70.1 |
| 80° | 39.2 | 39.2 | 39.2 | 39.8 | 39.2 | 41.3 | 41.3 | 42.2 | 43.1 | 44.9 | 48.2 |
| 82.5° | 26.8 | 27.3 | 27.6 | 27.9 | 28.2 | 28.2 | 28.5 | 29.1 | 30.3 | 30.9 | 31.8 |
| 85° | 17.2 | 16.6 | 16.9 | 16.9 | 16.9 | 16.9 | 17.5 | 18.1 | 18.1 | 18.4 | 19.3 |
| 87.5° | 7.7 | 7.7 | 7.7 | 7.7 | 7.4 | 7.7 | 8.0 | 8.0 | 8.3 | 8.3 | 8.9 |
| 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: P243622

CATALOG NUMBER: S124RDR-H575D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 |
| 2.5° | 791.0 | 790.1 | 785.6 | 780.9 | 776.4 | 771.9 | 770.5 | 766.0 | 760.6 | 755.9 | 750.5 |
| 5° | 826.3 | 819.2 | 809.4 | 799.3 | 788.9 | 779.4 | 771.9 | 763.6 | 754.1 | 742.8 | 733.9 |
| 7.5° | 862.0 | 848.9 | 832.9 | 818.0 | 800.2 | 785.9 | 771.6 | 759.8 | 746.1 | 730.0 | 717.8 |
| 10° | 896.8 | 875.1 | 855.5 | 832.0 | 809.4 | 789.8 | 771.6 | 751.7 | 733.6 | 716.4 | 699.4 |
| 12.5° | 924.4 | 902.7 | 874.5 | 845.7 | 816.5 | 791.0 | 766.6 | 743.1 | 720.5 | 699.7 | 681.0 |
| 15° | 955.9 | 924.7 | 889.9 | 858.1 | 818.3 | 786.8 | 758.9 | 733.6 | 707.7 | 682.5 | 662.0 |
| 17.5° | 979.1 | 942.3 | 899.2 | 862.6 | 824.3 | 785.0 | 751.4 | 719.6 | 689.9 | 663.4 | 642.3 |
| 20° | 997.0 | 953.3 | 910.2 | 863.8 | 818.0 | 777.9 | 740.1 | 703.6 | 673.6 | 644.7 | 622.4 |
| 22.5° | 1004.7 | 958.6 | 910.8 | 860.5 | 811.8 | 766.3 | 727.1 | 689.3 | 655.4 | 625.7 | 599.8 |
| 25° | 1008.0 | 957.4 | 907.8 | 850.7 | 801.4 | 755.0 | 711.3 | 672.4 | 637.6 | 604.0 | 578.4 |
| 27.5° | 1005.3 | 951.2 | 894.1 | 840.3 | 784.4 | 738.9 | 692.6 | 653.0 | 616.8 | 584.4 | 555.8 |
| 30° | 998.1 | 936.9 | 880.1 | 819.8 | 766.0 | 718.1 | 673.0 | 631.0 | 594.5 | 561.5 | 533.3 |
| 32.5° | 979.7 | 920.9 | 856.4 | 797.5 | 739.5 | 692.3 | 651.3 | 609.9 | 572.8 | 538.3 | 511.0 |
| 35° | 956.8 | 899.2 | 831.7 | 770.2 | 712.8 | 664.9 | 623.6 | 586.8 | 550.2 | 513.6 | 485.7 |
| 37.5° | 928.0 | 869.4 | 804.3 | 738.1 | 681.9 | 635.5 | 597.8 | 560.6 | 524.3 | 490.7 | 459.5 |
| 40° | 889.1 | 835.6 | 770.2 | 703.6 | 647.1 | 602.5 | 565.4 | 531.2 | 499.1 | 466.1 | 432.5 |
| 42.5° | 840.6 | 799.9 | 732.4 | 666.7 | 611.4 | 567.1 | 534.1 | 503.5 | 472.6 | 438.7 | 408.4 |
| 45° | 788.9 | 754.1 | 692.9 | 626.6 | 574.0 | 530.9 | 499.4 | 472.3 | 443.2 | 413.2 | 381.4 |
| 47.5° | 730.6 | 704.8 | 651.9 | 586.2 | 530.9 | 494.0 | 464.9 | 440.2 | 413.8 | 387.0 | 356.1 |
| 50° | 664.9 | 649.2 | 604.0 | 544.3 | 491.6 | 454.2 | 430.1 | 408.1 | 385.5 | 358.8 | 332.3 |
| 52.5° | 599.2 | 596.3 | 554.1 | 501.4 | 451.8 | 417.0 | 393.6 | 373.3 | 354.9 | 329.6 | 307.3 |
| 55° | 530.3 | 539.2 | 504.1 | 455.7 | 411.4 | 377.8 | 357.0 | 340.6 | 324.6 | 303.2 | 281.8 |
| 57.5° | 469.0 | 479.2 | 455.1 | 410.5 | 369.2 | 340.6 | 322.8 | 307.9 | 294.0 | 274.4 | 260.1 |
| 60° | 401.3 | 419.7 | 406.9 | 366.2 | 329.6 | 304.1 | 287.4 | 275.5 | 264.0 | 247.0 | 234.5 |
| 62.5° | 347.8 | 360.6 | 353.1 | 322.8 | 290.4 | 269.6 | 254.7 | 243.7 | 234.5 | 221.4 | 209.3 |
| 65° | 290.4 | 306.5 | 302.6 | 282.7 | 254.1 | 235.1 | 223.8 | 215.2 | 205.7 | 195.3 | 185.2 |
| 67.5° | 238.7 | 255.3 | 254.4 | 240.8 | 219.7 | 203.9 | 193.2 | 187.0 | 179.2 | 169.1 | 162.9 |
| 70° | 192.0 | 207.5 | 208.1 | 201.2 | 186.4 | 171.5 | 163.8 | 158.1 | 152.2 | 144.8 | 140.3 |
| 72.5° | 149.2 | 163.2 | 165.6 | 162.3 | 152.8 | 143.0 | 136.1 | 132.3 | 127.2 | 121.0 | 117.1 |
| 75° | 111.5 | 121.6 | 127.2 | 125.7 | 121.9 | 115.3 | 111.5 | 108.8 | 103.7 | 99.3 | 96.0 |
| 77.5° | 79.4 | 87.4 | 93.0 | 95.4 | 93.6 | 91.0 | 87.4 | 85.3 | 80.0 | 77.9 | 76.1 |
| 80° | 53.2 | 60.3 | 65.4 | 66.9 | 67.8 | 67.2 | 63.9 | 62.7 | 60.0 | 59.2 | 57.4 |
| 82.5° | 32.7 | 36.6 | 40.1 | 44.0 | 45.8 | 45.8 | 44.0 | 44.3 | 41.9 | 40.7 | 40.1 |
| 85° | 19.9 | 20.8 | 21.4 | 24.4 | 26.8 | 27.6 | 26.8 | 27.0 | 26.2 | 25.3 | 24.4 |
| 87.5° | 9.2 | 9.2 | 9.5 | 10.1 | 10.7 | 12.5 | 13.1 | 14.0 | 12.8 | 12.8 | 10.7 |
| 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: P243622

CATALOG NUMBER: S124RDR-H575D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 | 763.3 |
| 2.5° | 747.3 | 743.4 | 740.4 | 735.7 | 731.8 | 725.6 | 723.5 | 723.5 | 724.7 | 723.2 | 724.7 |
| 5° | 727.7 | 720.5 | 712.8 | 706.0 | 698.5 | 693.2 | 687.8 | 686.6 | 686.0 | 682.5 | 682.8 |
| 7.5° | 708.0 | 698.5 | 688.7 | 679.8 | 670.6 | 662.3 | 656.6 | 654.2 | 652.2 | 649.8 | 647.1 |
| 10° | 686.9 | 675.9 | 664.3 | 654.2 | 645.3 | 634.0 | 628.4 | 626.6 | 620.6 | 619.5 | 615.3 |
| 12.5° | 664.6 | 653.3 | 641.7 | 628.7 | 620.0 | 609.1 | 600.7 | 596.9 | 591.2 | 587.1 | 580.8 |
| 15° | 647.1 | 632.8 | 617.4 | 604.6 | 593.3 | 581.1 | 569.8 | 562.4 | 555.0 | 543.4 | 537.7 |
| 17.5° | 625.4 | 609.1 | 595.7 | 582.0 | 565.7 | 547.8 | 534.4 | 523.4 | 515.4 | 505.9 | 500.3 |
| 20° | 601.9 | 586.8 | 570.1 | 550.8 | 533.6 | 513.3 | 501.2 | 491.9 | 485.7 | 480.0 | 477.1 |
| 22.5° | 581.1 | 563.6 | 540.7 | 522.3 | 498.2 | 482.1 | 472.3 | 466.4 | 460.4 | 454.5 | 451.5 |
| 25° | 558.5 | 538.0 | 510.1 | 487.5 | 469.3 | 456.9 | 447.4 | 441.7 | 435.5 | 431.9 | 427.4 |
| 27.5° | 536.2 | 509.8 | 481.8 | 461.3 | 447.1 | 432.5 | 424.5 | 420.0 | 415.2 | 410.2 | 406.6 |
| 30° | 509.2 | 479.2 | 456.0 | 437.2 | 423.0 | 410.8 | 404.8 | 398.3 | 394.1 | 391.2 | 389.1 |
| 32.5° | 480.9 | 452.1 | 431.0 | 415.0 | 401.0 | 391.8 | 384.3 | 380.2 | 376.6 | 373.3 | 371.0 |
| 35° | 454.5 | 426.5 | 408.7 | 393.3 | 381.7 | 371.3 | 365.6 | 361.7 | 358.8 | 356.1 | 354.9 |
| 37.5° | 428.3 | 404.5 | 385.2 | 373.0 | 360.9 | 352.5 | 347.2 | 343.6 | 341.8 | 339.2 | 339.5 |
| 40° | 402.5 | 381.1 | 365.6 | 351.6 | 340.3 | 333.2 | 329.0 | 327.6 | 324.9 | 324.0 | 324.9 |
| 42.5° | 379.3 | 359.7 | 344.8 | 331.7 | 321.9 | 315.1 | 311.8 | 309.7 | 308.8 | 308.5 | 308.8 |
| 45° | 356.7 | 338.3 | 324.0 | 313.3 | 303.2 | 296.9 | 294.3 | 292.8 | 291.9 | 293.4 | 293.7 |
| 47.5° | 334.1 | 317.5 | 304.7 | 292.2 | 283.9 | 279.4 | 276.7 | 275.5 | 276.4 | 277.0 | 279.1 |
| 50° | 311.8 | 296.4 | 283.0 | 272.0 | 265.4 | 261.3 | 260.4 | 258.3 | 259.8 | 260.7 | 262.2 |
| 52.5° | 289.2 | 275.2 | 263.4 | 253.0 | 246.1 | 243.4 | 241.4 | 240.5 | 242.6 | 242.6 | 244.0 |
| 55° | 266.3 | 254.1 | 243.1 | 233.6 | 228.3 | 225.0 | 223.5 | 222.3 | 223.5 | 223.8 | 223.5 |
| 57.5° | 244.9 | 233.3 | 221.7 | 213.7 | 209.3 | 205.7 | 204.2 | 203.6 | 203.3 | 204.5 | 204.2 |
| 60° | 222.3 | 211.3 | 202.1 | 193.8 | 189.3 | 187.3 | 184.0 | 184.6 | 184.6 | 184.6 | 181.6 |
| 62.5° | 199.7 | 188.7 | 180.7 | 175.1 | 169.7 | 166.2 | 165.6 | 164.7 | 162.9 | 162.6 | 158.7 |
| 65° | 176.6 | 168.2 | 161.4 | 155.8 | 150.4 | 147.4 | 146.5 | 143.9 | 141.8 | 137.9 | 135.2 |
| 67.5° | 155.2 | 149.2 | 141.2 | 136.4 | 132.0 | 128.4 | 125.1 | 123.1 | 118.9 | 115.0 | 112.7 |
| 70° | 133.8 | 127.5 | 122.2 | 117.1 | 112.7 | 109.4 | 105.5 | 101.7 | 99.0 | 96.6 | 94.8 |
| 72.5° | 112.4 | 107.0 | 102.5 | 97.8 | 93.0 | 89.8 | 86.8 | 83.8 | 82.6 | 81.4 | 80.6 |
| 75° | 92.4 | 87.4 | 83.2 | 79.4 | 76.7 | 72.8 | 71.3 | 70.1 | 69.0 | 67.5 | 65.7 |
| 77.5° | 73.1 | 69.3 | 66.0 | 62.7 | 60.3 | 58.3 | 57.1 | 53.5 | 50.5 | 49.9 | 49.3 |
| 80° | 54.4 | 51.4 | 49.3 | 47.0 | 44.3 | 41.3 | 40.4 | 39.2 | 38.6 | 38.6 | 38.9 |
| 82.5° | 38.0 | 36.3 | 33.9 | 31.8 | 30.9 | 29.7 | 29.7 | 29.4 | 29.1 | 29.4 | 29.4 |
| 85° | 23.2 | 20.8 | 20.2 | 19.9 | 20.2 | 20.2 | 20.2 | 20.2 | 19.9 | 20.2 | 19.6 |
| 87.5° | 10.1 | 11.0 | 11.3 | 10.4 | 10.7 | 10.1 | 10.4 | 10.4 | 10.4 | 10.7 | 10.4 |
| 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: P243622

CATALOG NUMBER: S124RDR-H575D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 763.3 | 763.3 | 763.3 | 763.3 |
| 2.5° | 722.9 | 722.9 | 719.9 | 717.5 |
| 5° | 682.2 | 678.3 | 677.7 | 674.1 |
| 7.5° | 644.1 | 643.5 | 642.0 | 642.0 |
| 10° | 613.8 | 611.7 | 609.6 | 609.3 |
| 12.5° | 571.0 | 574.0 | 570.4 | 569.5 |
| 15° | 533.6 | 531.2 | 528.2 | 522.0 |
| 17.5° | 498.8 | 494.3 | 493.1 | 490.5 |
| 20° | 471.4 | 468.2 | 467.0 | 465.5 |
| 22.5° | 445.6 | 445.0 | 441.4 | 440.5 |
| 25° | 426.5 | 423.6 | 421.2 | 419.7 |
| 27.5° | 405.7 | 403.7 | 402.5 | 400.1 |
| 30° | 386.7 | 386.1 | 384.6 | 384.6 |
| 32.5° | 369.5 | 367.7 | 367.7 | 367.4 |
| 35° | 353.7 | 354.3 | 352.5 | 351.9 |
| 37.5° | 338.9 | 338.0 | 338.3 | 337.7 |
| 40° | 324.3 | 323.7 | 323.7 | 324.0 |
| 42.5° | 309.4 | 309.7 | 310.3 | 310.3 |
| 45° | 294.6 | 294.9 | 295.5 | 295.5 |
| 47.5° | 280.6 | 280.0 | 280.6 | 280.0 |
| 50° | 262.8 | 264.5 | 264.2 | 264.0 |
| 52.5° | 244.6 | 244.0 | 245.2 | 244.9 |
| 55° | 225.0 | 224.1 | 225.3 | 224.1 |
| 57.5° | 203.0 | 203.3 | 203.3 | 202.7 |
| 60° | 181.0 | 180.1 | 178.9 | 178.9 |
| 62.5° | 155.5 | 152.8 | 151.0 | 152.2 |
| 65° | 130.8 | 128.7 | 128.1 | 127.2 |
| 67.5° | 111.2 | 108.8 | 107.9 | 107.6 |
| 70° | 94.2 | 93.0 | 92.7 | 92.7 |
| 72.5° | 80.0 | 80.0 | 79.1 | 78.5 |
| 75° | 65.1 | 63.9 | 62.4 | 62.4 |
| 77.5° | 48.7 | 48.5 | 48.2 | 48.2 |
| 80° | 38.0 | 38.0 | 38.3 | 38.6 |
| 82.5° | 28.5 | 28.8 | 29.1 | 29.1 |
| 85° | 19.3 | 19.3 | 19.6 | 19.6 |
| 87.5° | 10.4 | 10.4 | 10.4 | 10.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)