

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: P243607

Luminaire Tested: **S124RDR-H575D840-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243607
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-H575D840-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2231.1 lumens
Efficiency: N/A
Efficacy: 129.7 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

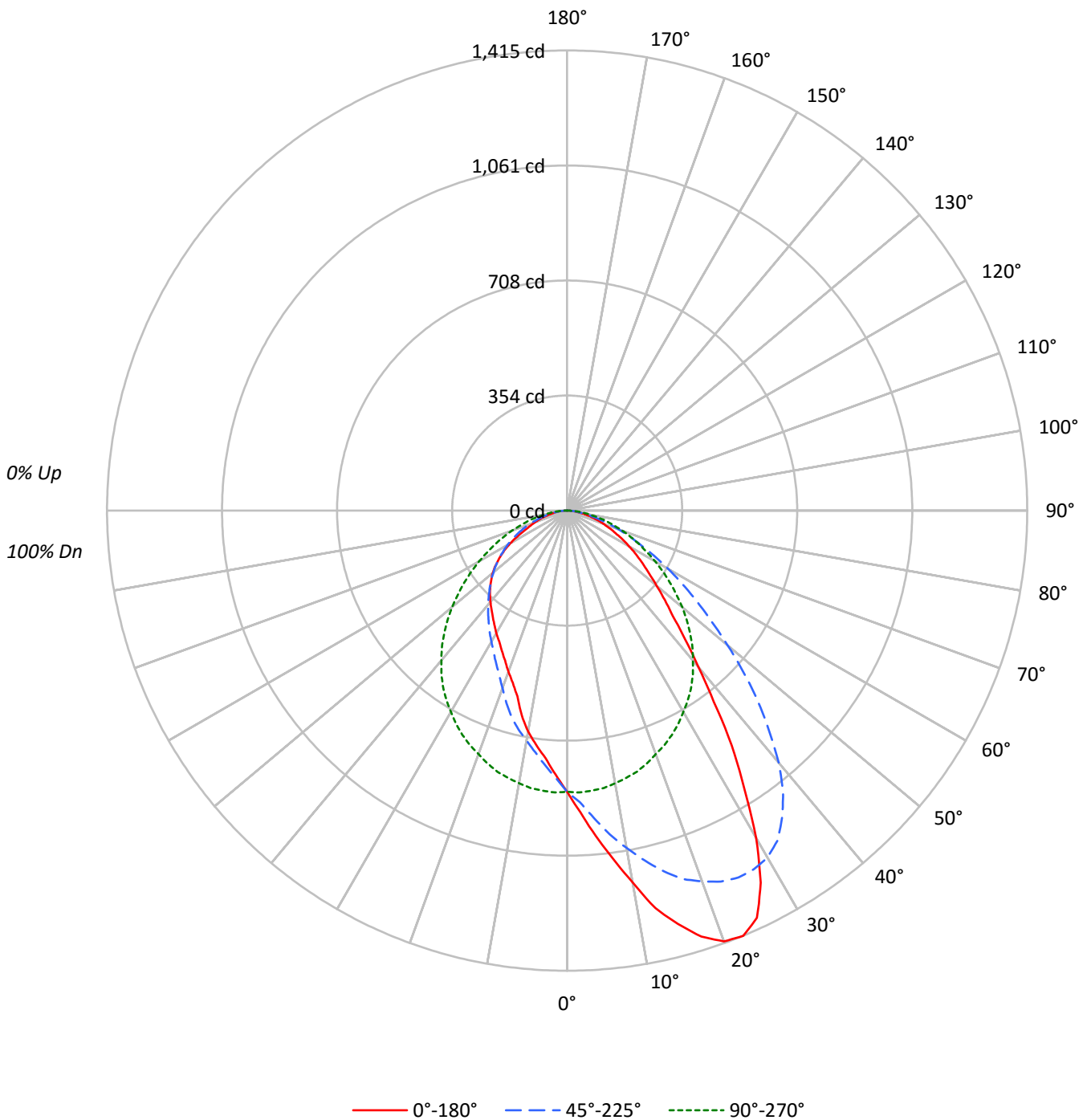
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243607

CATALOG NUMBER: S124RDR-H575D840-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243607

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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 | 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° | 7684 | 7684 | 7684 |
| 5° | 8951 | 7716 | 6813 |
| 10° | 10483 | 7684 | 6229 |
| 15° | 12112 | 7645 | 5440 |
| 20° | 13336 | 7537 | 4987 |
| 25° | 13550 | 7469 | 4662 |
| 30° | 11927 | 7336 | 4471 |
| 35° | 9571 | 7211 | 4325 |
| 40° | 7281 | 6981 | 4257 |
| 45° | 5780 | 6724 | 4206 |
| 50° | 4962 | 6392 | 4133 |
| 55° | 4383 | 5979 | 3933 |
| 60° | 3925 | 5548 | 3604 |
| 65° | 3456 | 5126 | 3031 |
| 70° | 3080 | 4655 | 2729 |
| 75° | 2682 | 4231 | 2428 |
| 80° | 2273 | 3634 | 2242 |
| 85° | 1989 | 3121 | 2264 |



TEST NUMBER: P243607

CATALOG NUMBER: S124RDR-H575D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.9 | 3.8 |
| 10°-20° | 254.4 | 11.4 |
| 20°-30° | 397.0 | 17.8 |
| 30°-40° | 442.7 | 19.8 |
| 40°-50° | 397.9 | 17.8 |
| 50°-60° | 314.4 | 14.1 |
| 60°-70° | 208.8 | 9.4 |
| 70°-80° | 104.7 | 4.7 |
| 80°-90° | 27.3 | 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° | 735.2 | 33.0 |
| 0°-40° | 1177.9 | 52.8 |
| 0°-60° | 1890.3 | 84.7 |
| 0°-90° | 2231.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2231.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 864 | 864 | 864 | 864 | 864 | |
| 5° | 1003 | 949 | 865 | 785 | 764 | 100 |
| 15° | 1316 | 1149 | 831 | 658 | 591 | 374 |
| 25° | 1382 | 1245 | 762 | 517 | 475 | 618 |
| 35° | 882 | 1152 | 664 | 420 | 399 | 548 |
| 45° | 460 | 830 | 535 | 336 | 335 | 364 |
| 55° | 283 | 487 | 386 | 255 | 254 | 255 |
| 65° | 164 | 250 | 244 | 167 | 144 | 164 |
| 75° | 78 | 99 | 123 | 82 | 71 | 84 |
| 85° | 20 | 21 | 31 | 23 | 22 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243607

CATALOG NUMBER: S124RDR-H575D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 |
| 2.5° | 928.4 | 925.1 | 924.7 | 920.3 | 920.0 | 915.6 | 914.3 | 910.6 | 903.2 | 897.5 | 897.8 |
| 5° | 1003.2 | 1000.5 | 1000.1 | 995.7 | 994.4 | 989.0 | 980.6 | 970.5 | 958.7 | 949.0 | 942.6 |
| 7.5° | 1079.9 | 1084.6 | 1079.6 | 1079.6 | 1069.8 | 1063.4 | 1046.9 | 1038.5 | 1018.3 | 1004.2 | 989.4 |
| 10° | 1161.4 | 1165.7 | 1163.7 | 1159.7 | 1146.9 | 1133.8 | 1116.6 | 1100.1 | 1075.5 | 1053.3 | 1038.5 |
| 12.5° | 1252.3 | 1239.1 | 1247.5 | 1235.1 | 1224.7 | 1203.8 | 1187.3 | 1154.3 | 1134.8 | 1102.5 | 1073.5 |
| 15° | 1316.2 | 1311.2 | 1310.8 | 1302.4 | 1291.0 | 1268.1 | 1250.2 | 1215.9 | 1182.6 | 1148.6 | 1115.9 |
| 17.5° | 1373.4 | 1374.1 | 1369.4 | 1355.9 | 1341.1 | 1318.9 | 1294.7 | 1264.0 | 1226.0 | 1188.3 | 1149.6 |
| 20° | 1409.8 | 1410.1 | 1406.8 | 1399.7 | 1383.5 | 1363.3 | 1338.4 | 1298.4 | 1255.3 | 1213.5 | 1174.8 |
| 22.5° | 1415.2 | 1416.2 | 1415.2 | 1410.8 | 1399.7 | 1383.2 | 1360.3 | 1326.3 | 1282.9 | 1235.1 | 1189.0 |
| 25° | 1381.5 | 1384.9 | 1385.2 | 1391.3 | 1385.6 | 1379.2 | 1362.3 | 1333.7 | 1293.7 | 1245.2 | 1195.0 |
| 27.5° | 1289.3 | 1298.7 | 1307.5 | 1318.2 | 1328.0 | 1336.8 | 1338.1 | 1323.0 | 1288.6 | 1243.5 | 1195.7 |
| 30° | 1162.0 | 1173.2 | 1190.7 | 1202.1 | 1232.4 | 1251.6 | 1277.5 | 1283.2 | 1266.7 | 1232.1 | 1185.9 |
| 32.5° | 1013.9 | 1025.7 | 1032.4 | 1070.1 | 1113.6 | 1144.9 | 1188.0 | 1213.5 | 1219.9 | 1203.4 | 1165.7 |
| 35° | 882.0 | 884.0 | 889.0 | 931.8 | 974.9 | 1022.3 | 1075.9 | 1120.3 | 1150.6 | 1152.3 | 1133.8 |
| 37.5° | 740.6 | 742.9 | 762.8 | 795.5 | 832.8 | 885.0 | 946.6 | 1009.9 | 1065.4 | 1091.0 | 1085.6 |
| 40° | 627.5 | 626.8 | 648.0 | 676.3 | 712.6 | 766.8 | 830.5 | 899.5 | 958.7 | 1012.2 | 1025.0 |
| 42.5° | 535.9 | 538.3 | 556.4 | 572.9 | 608.0 | 646.0 | 714.0 | 785.7 | 861.8 | 920.3 | 959.4 |
| 45° | 459.8 | 465.9 | 478.3 | 493.8 | 520.1 | 555.1 | 610.6 | 682.0 | 759.8 | 830.1 | 876.9 |
| 47.5° | 407.3 | 409.0 | 415.4 | 434.6 | 452.1 | 480.4 | 527.8 | 588.4 | 657.4 | 736.2 | 797.8 |
| 50° | 358.8 | 362.9 | 365.2 | 376.7 | 393.9 | 420.8 | 457.5 | 502.6 | 570.9 | 643.3 | 720.4 |
| 52.5° | 317.1 | 319.5 | 323.8 | 334.3 | 347.7 | 366.6 | 395.5 | 435.3 | 492.2 | 559.1 | 631.9 |
| 55° | 282.8 | 283.1 | 287.5 | 294.9 | 305.3 | 319.8 | 347.4 | 376.0 | 426.5 | 487.4 | 553.4 |
| 57.5° | 251.8 | 249.8 | 253.8 | 258.2 | 268.3 | 280.7 | 298.6 | 327.9 | 367.3 | 419.1 | 478.7 |
| 60° | 220.8 | 222.5 | 222.2 | 227.2 | 232.6 | 245.1 | 260.2 | 279.4 | 311.7 | 359.2 | 409.7 |
| 62.5° | 191.9 | 191.5 | 194.9 | 197.9 | 201.6 | 211.7 | 224.2 | 240.0 | 265.3 | 300.3 | 349.1 |
| 65° | 164.3 | 164.9 | 167.6 | 170.0 | 174.0 | 180.4 | 189.9 | 202.7 | 222.8 | 249.8 | 290.8 |
| 67.5° | 139.4 | 141.7 | 143.1 | 143.7 | 147.4 | 152.2 | 160.2 | 170.7 | 184.5 | 206.0 | 240.4 |
| 70° | 118.5 | 119.2 | 119.8 | 122.2 | 123.9 | 126.6 | 132.6 | 138.4 | 150.8 | 166.6 | 191.5 |
| 72.5° | 99.0 | 98.3 | 100.3 | 101.0 | 101.7 | 104.4 | 108.1 | 111.1 | 119.2 | 132.6 | 148.1 |
| 75° | 78.1 | 78.4 | 78.8 | 79.8 | 82.5 | 82.8 | 84.5 | 87.9 | 93.6 | 99.0 | 109.4 |
| 77.5° | 58.6 | 59.6 | 59.2 | 60.3 | 61.3 | 62.3 | 62.9 | 66.0 | 70.0 | 74.4 | 79.4 |
| 80° | 44.4 | 44.4 | 44.4 | 45.1 | 44.4 | 46.8 | 46.8 | 47.8 | 48.8 | 50.8 | 54.5 |
| 82.5° | 30.3 | 31.0 | 31.3 | 31.6 | 32.0 | 32.0 | 32.3 | 33.0 | 34.3 | 35.0 | 36.0 |
| 85° | 19.5 | 18.9 | 19.2 | 19.2 | 19.2 | 19.2 | 19.9 | 20.5 | 20.5 | 20.9 | 21.9 |
| 87.5° | 8.8 | 8.8 | 8.8 | 8.8 | 8.4 | 8.8 | 9.1 | 9.1 | 9.4 | 9.4 | 10.1 |
| 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: P243607

CATALOG NUMBER: S124RDR-H575D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 |
| 2.5° | 895.8 | 894.8 | 889.7 | 884.3 | 879.3 | 874.2 | 872.5 | 867.5 | 861.4 | 856.0 | 850.0 |
| 5° | 935.8 | 927.7 | 916.6 | 905.2 | 893.4 | 882.6 | 874.2 | 864.8 | 854.0 | 841.2 | 831.1 |
| 7.5° | 976.2 | 961.4 | 943.2 | 926.4 | 906.2 | 890.0 | 873.9 | 860.4 | 844.9 | 826.8 | 813.0 |
| 10° | 1015.6 | 991.0 | 968.8 | 942.2 | 916.6 | 894.4 | 873.9 | 851.3 | 830.8 | 811.3 | 792.1 |
| 12.5° | 1046.9 | 1022.3 | 990.4 | 957.7 | 924.7 | 895.8 | 868.2 | 841.6 | 816.0 | 792.4 | 771.2 |
| 15° | 1082.6 | 1047.3 | 1007.9 | 971.8 | 926.7 | 891.1 | 859.4 | 830.8 | 801.5 | 772.9 | 749.7 |
| 17.5° | 1108.9 | 1067.1 | 1018.3 | 976.9 | 933.5 | 889.0 | 851.0 | 815.0 | 781.3 | 751.4 | 727.5 |
| 20° | 1129.1 | 1079.6 | 1030.8 | 978.2 | 926.4 | 881.0 | 838.2 | 796.8 | 762.8 | 730.1 | 704.9 |
| 22.5° | 1137.8 | 1085.6 | 1031.4 | 974.5 | 919.3 | 867.8 | 823.4 | 780.6 | 742.3 | 708.6 | 679.3 |
| 25° | 1141.5 | 1084.3 | 1028.1 | 963.4 | 907.6 | 855.0 | 805.6 | 761.5 | 722.1 | 684.0 | 655.1 |
| 27.5° | 1138.5 | 1077.2 | 1012.6 | 951.6 | 888.4 | 836.9 | 784.3 | 739.6 | 698.5 | 661.8 | 629.5 |
| 30° | 1130.4 | 1061.1 | 996.8 | 928.4 | 867.5 | 813.3 | 762.1 | 714.7 | 673.3 | 635.9 | 603.9 |
| 32.5° | 1109.5 | 1042.9 | 969.8 | 903.2 | 837.5 | 784.0 | 737.6 | 690.8 | 648.7 | 609.6 | 578.7 |
| 35° | 1083.6 | 1018.3 | 941.9 | 872.2 | 807.2 | 753.0 | 706.2 | 664.5 | 623.1 | 581.7 | 550.1 |
| 37.5° | 1051.0 | 984.6 | 910.9 | 835.8 | 772.2 | 719.7 | 677.0 | 634.9 | 593.8 | 555.8 | 520.4 |
| 40° | 1006.9 | 946.3 | 872.2 | 796.8 | 732.8 | 682.3 | 640.3 | 601.6 | 565.2 | 527.8 | 489.8 |
| 42.5° | 952.0 | 905.9 | 829.5 | 755.1 | 692.4 | 642.3 | 604.9 | 570.2 | 535.2 | 496.9 | 462.5 |
| 45° | 893.4 | 854.0 | 784.7 | 709.6 | 650.0 | 601.2 | 565.5 | 534.9 | 501.9 | 467.9 | 431.9 |
| 47.5° | 827.4 | 798.1 | 738.2 | 663.8 | 601.2 | 559.5 | 526.5 | 498.5 | 468.6 | 438.3 | 403.3 |
| 50° | 753.0 | 735.2 | 684.0 | 616.4 | 556.8 | 514.4 | 487.1 | 462.2 | 436.6 | 406.3 | 376.4 |
| 52.5° | 678.6 | 675.3 | 627.5 | 567.9 | 511.7 | 472.3 | 445.7 | 422.8 | 401.9 | 373.3 | 348.1 |
| 55° | 600.5 | 610.6 | 570.9 | 516.1 | 465.9 | 427.9 | 404.3 | 385.8 | 367.6 | 343.4 | 319.1 |
| 57.5° | 531.2 | 542.6 | 515.4 | 464.9 | 418.1 | 385.8 | 365.6 | 348.7 | 332.9 | 310.7 | 294.6 |
| 60° | 454.4 | 475.3 | 460.8 | 414.7 | 373.3 | 344.4 | 325.5 | 312.1 | 298.9 | 279.7 | 265.6 |
| 62.5° | 393.9 | 408.3 | 399.9 | 365.6 | 328.9 | 305.3 | 288.5 | 276.0 | 265.6 | 250.8 | 237.0 |
| 65° | 328.9 | 347.1 | 342.7 | 320.1 | 287.8 | 266.3 | 253.5 | 243.7 | 232.9 | 221.2 | 209.7 |
| 67.5° | 270.3 | 289.2 | 288.2 | 272.7 | 248.8 | 230.9 | 218.8 | 211.7 | 203.0 | 191.5 | 184.5 |
| 70° | 217.5 | 235.0 | 235.6 | 227.9 | 211.1 | 194.2 | 185.5 | 179.1 | 172.4 | 163.9 | 158.9 |
| 72.5° | 169.0 | 184.8 | 187.5 | 183.8 | 173.0 | 161.9 | 154.2 | 149.8 | 144.1 | 137.0 | 132.6 |
| 75° | 126.2 | 137.7 | 144.1 | 142.4 | 138.0 | 130.6 | 126.2 | 123.2 | 117.5 | 112.4 | 108.7 |
| 77.5° | 89.9 | 99.0 | 105.4 | 108.1 | 106.0 | 103.0 | 99.0 | 96.6 | 90.6 | 88.2 | 86.2 |
| 80° | 60.3 | 68.3 | 74.1 | 75.7 | 76.8 | 76.1 | 72.4 | 71.0 | 68.0 | 67.0 | 65.0 |
| 82.5° | 37.0 | 41.4 | 45.4 | 49.8 | 51.8 | 51.8 | 49.8 | 50.2 | 47.5 | 46.1 | 45.4 |
| 85° | 22.6 | 23.6 | 24.2 | 27.6 | 30.3 | 31.3 | 30.3 | 30.6 | 29.6 | 28.6 | 27.6 |
| 87.5° | 10.4 | 10.4 | 10.8 | 11.4 | 12.1 | 14.1 | 14.8 | 15.8 | 14.5 | 14.5 | 12.1 |
| 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: P243607

CATALOG NUMBER: S124RDR-H575D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 | 864.5 |
| 2.5° | 846.3 | 841.9 | 838.5 | 833.2 | 828.8 | 821.7 | 819.4 | 819.4 | 820.7 | 819.0 | 820.7 |
| 5° | 824.1 | 816.0 | 807.2 | 799.5 | 791.1 | 785.0 | 779.0 | 777.6 | 776.9 | 772.9 | 773.2 |
| 7.5° | 801.9 | 791.1 | 780.0 | 769.9 | 759.4 | 750.0 | 743.6 | 740.9 | 738.6 | 735.9 | 732.8 |
| 10° | 777.9 | 765.5 | 752.4 | 740.9 | 730.8 | 718.0 | 711.6 | 709.6 | 702.9 | 701.5 | 696.8 |
| 12.5° | 752.7 | 739.9 | 726.8 | 712.0 | 702.2 | 689.8 | 680.3 | 676.0 | 669.6 | 664.8 | 657.8 |
| 15° | 732.8 | 716.7 | 699.2 | 684.7 | 671.9 | 658.1 | 645.3 | 636.9 | 628.5 | 615.4 | 609.0 |
| 17.5° | 708.3 | 689.8 | 674.6 | 659.1 | 640.6 | 620.4 | 605.3 | 592.8 | 583.7 | 572.9 | 566.5 |
| 20° | 681.7 | 664.5 | 645.7 | 623.8 | 604.2 | 581.4 | 567.6 | 557.1 | 550.1 | 543.7 | 540.3 |
| 22.5° | 658.1 | 638.2 | 612.3 | 591.5 | 564.2 | 546.0 | 534.9 | 528.2 | 521.4 | 514.7 | 511.3 |
| 25° | 632.5 | 609.3 | 577.7 | 552.1 | 531.5 | 517.4 | 506.6 | 500.2 | 493.2 | 489.1 | 484.1 |
| 27.5° | 607.3 | 577.3 | 545.7 | 522.4 | 506.3 | 489.8 | 480.7 | 475.7 | 470.3 | 464.5 | 460.5 |
| 30° | 576.6 | 542.6 | 516.4 | 495.2 | 479.0 | 465.2 | 458.5 | 451.1 | 446.4 | 443.0 | 440.6 |
| 32.5° | 544.7 | 512.0 | 488.1 | 469.9 | 454.1 | 443.7 | 435.3 | 430.5 | 426.5 | 422.8 | 420.1 |
| 35° | 514.7 | 483.1 | 462.9 | 445.4 | 432.2 | 420.4 | 414.1 | 409.7 | 406.3 | 403.3 | 401.9 |
| 37.5° | 485.1 | 458.2 | 436.3 | 422.5 | 408.7 | 399.2 | 393.2 | 389.1 | 387.1 | 384.1 | 384.4 |
| 40° | 455.8 | 431.6 | 414.1 | 398.2 | 385.4 | 377.4 | 372.6 | 371.0 | 367.9 | 366.9 | 367.9 |
| 42.5° | 429.5 | 407.3 | 390.5 | 375.7 | 364.6 | 356.8 | 353.1 | 350.8 | 349.8 | 349.4 | 349.8 |
| 45° | 404.0 | 383.1 | 366.9 | 354.8 | 343.4 | 336.3 | 333.3 | 331.6 | 330.6 | 332.3 | 332.6 |
| 47.5° | 378.4 | 359.5 | 345.0 | 330.9 | 321.5 | 316.4 | 313.4 | 312.1 | 313.1 | 313.7 | 316.1 |
| 50° | 353.1 | 335.6 | 320.5 | 308.0 | 300.6 | 295.9 | 294.9 | 292.5 | 294.2 | 295.2 | 296.9 |
| 52.5° | 327.5 | 311.7 | 298.3 | 286.5 | 278.7 | 275.7 | 273.3 | 272.3 | 274.7 | 274.7 | 276.4 |
| 55° | 301.6 | 287.8 | 275.4 | 264.6 | 258.5 | 254.8 | 253.1 | 251.8 | 253.1 | 253.5 | 253.1 |
| 57.5° | 277.4 | 264.3 | 251.1 | 242.0 | 237.0 | 232.9 | 231.3 | 230.6 | 230.3 | 231.6 | 231.3 |
| 60° | 251.8 | 239.3 | 228.9 | 219.5 | 214.4 | 212.1 | 208.4 | 209.0 | 209.0 | 209.0 | 205.7 |
| 62.5° | 226.2 | 213.8 | 204.7 | 198.3 | 192.2 | 188.2 | 187.5 | 186.5 | 184.5 | 184.1 | 179.8 |
| 65° | 200.0 | 190.5 | 182.8 | 176.4 | 170.3 | 167.0 | 166.0 | 162.9 | 160.6 | 156.2 | 153.2 |
| 67.5° | 175.7 | 169.0 | 159.9 | 154.5 | 149.5 | 145.4 | 141.7 | 139.4 | 134.7 | 130.3 | 127.6 |
| 70° | 151.5 | 144.4 | 138.4 | 132.6 | 127.6 | 123.9 | 119.5 | 115.1 | 112.1 | 109.4 | 107.4 |
| 72.5° | 127.2 | 121.2 | 116.1 | 110.8 | 105.4 | 101.7 | 98.3 | 94.9 | 93.6 | 92.2 | 91.2 |
| 75° | 104.7 | 99.0 | 94.3 | 89.9 | 86.9 | 82.5 | 80.8 | 79.4 | 78.1 | 76.4 | 74.4 |
| 77.5° | 82.8 | 78.4 | 74.7 | 71.0 | 68.3 | 66.0 | 64.6 | 60.6 | 57.2 | 56.6 | 55.9 |
| 80° | 61.6 | 58.2 | 55.9 | 53.2 | 50.2 | 46.8 | 45.8 | 44.4 | 43.8 | 43.8 | 44.1 |
| 82.5° | 43.1 | 41.1 | 38.4 | 36.0 | 35.0 | 33.7 | 33.7 | 33.3 | 33.0 | 33.3 | 33.3 |
| 85° | 26.3 | 23.6 | 22.9 | 22.6 | 22.9 | 22.9 | 22.9 | 22.9 | 22.6 | 22.9 | 22.2 |
| 87.5° | 11.4 | 12.5 | 12.8 | 11.8 | 12.1 | 11.4 | 11.8 | 11.8 | 11.8 | 12.1 | 11.8 |
| 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: P243607

CATALOG NUMBER: S124RDR-H575D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 864.5 | 864.5 | 864.5 | 864.5 |
| 2.5° | 818.7 | 818.7 | 815.3 | 812.6 |
| 5° | 772.6 | 768.2 | 767.5 | 763.5 |
| 7.5° | 729.5 | 728.8 | 727.1 | 727.1 |
| 10° | 695.1 | 692.8 | 690.4 | 690.1 |
| 12.5° | 646.7 | 650.0 | 646.0 | 645.0 |
| 15° | 604.2 | 601.6 | 598.2 | 591.1 |
| 17.5° | 564.9 | 559.8 | 558.5 | 555.4 |
| 20° | 533.9 | 530.2 | 528.8 | 527.2 |
| 22.5° | 504.6 | 503.9 | 499.9 | 498.9 |
| 25° | 483.1 | 479.7 | 477.0 | 475.3 |
| 27.5° | 459.5 | 457.1 | 455.8 | 453.1 |
| 30° | 438.0 | 437.3 | 435.6 | 435.6 |
| 32.5° | 418.4 | 416.4 | 416.4 | 416.1 |
| 35° | 400.6 | 401.3 | 399.2 | 398.6 |
| 37.5° | 383.8 | 382.7 | 383.1 | 382.4 |
| 40° | 367.3 | 366.6 | 366.6 | 366.9 |
| 42.5° | 350.4 | 350.8 | 351.4 | 351.4 |
| 45° | 333.6 | 333.9 | 334.6 | 334.6 |
| 47.5° | 317.8 | 317.1 | 317.8 | 317.1 |
| 50° | 297.6 | 299.6 | 299.3 | 298.9 |
| 52.5° | 277.0 | 276.4 | 277.7 | 277.4 |
| 55° | 254.8 | 253.8 | 255.2 | 253.8 |
| 57.5° | 229.9 | 230.3 | 230.3 | 229.6 |
| 60° | 205.0 | 204.0 | 202.7 | 202.7 |
| 62.5° | 176.1 | 173.0 | 171.0 | 172.4 |
| 65° | 148.1 | 145.8 | 145.1 | 144.1 |
| 67.5° | 125.9 | 123.2 | 122.2 | 121.9 |
| 70° | 106.7 | 105.4 | 105.0 | 105.0 |
| 72.5° | 90.6 | 90.6 | 89.5 | 88.9 |
| 75° | 73.7 | 72.4 | 70.7 | 70.7 |
| 77.5° | 55.2 | 54.9 | 54.5 | 54.5 |
| 80° | 43.1 | 43.1 | 43.4 | 43.8 |
| 82.5° | 32.3 | 32.7 | 33.0 | 33.0 |
| 85° | 21.9 | 21.9 | 22.2 | 22.2 |
| 87.5° | 11.8 | 11.8 | 11.8 | 11.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)