

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: P242644

Luminaire Tested: **S124DR-S575D840-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-S575D840-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2415.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

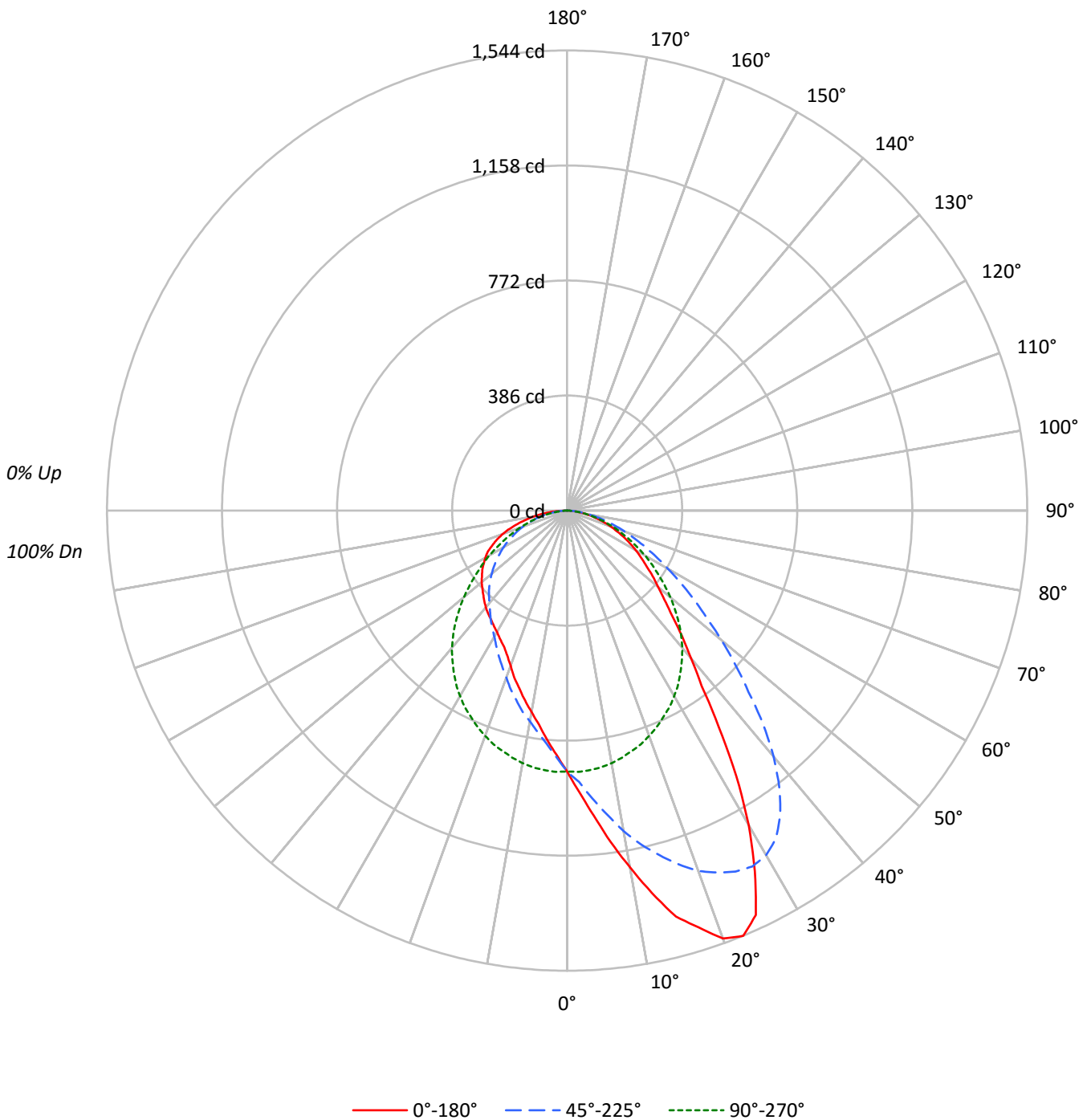
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242644

CATALOG NUMBER: S124DR-S575D840-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242644

CATALOG NUMBER: S124DR-S575D840-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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 46 |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 7780 | 7780 | 7780 |
| 5° | 9162 | 7799 | 6884 |
| 10° | 10969 | 7765 | 6198 |
| 15° | 12978 | 7687 | 5692 |
| 20° | 14452 | 7607 | 5240 |
| 25° | 14686 | 7488 | 4928 |
| 30° | 12496 | 7376 | 4830 |
| 35° | 9608 | 7192 | 4831 |
| 40° | 7489 | 6975 | 4922 |
| 45° | 6244 | 6650 | 5004 |
| 50° | 5496 | 6252 | 5175 |
| 55° | 5035 | 5776 | 5382 |
| 60° | 4718 | 5349 | 5634 |
| 65° | 4392 | 4873 | 5841 |
| 70° | 4013 | 4400 | 5975 |
| 75° | 3586 | 3874 | 5904 |
| 80° | 3005 | 3174 | 5718 |
| 85° | 2223 | 2295 | 5477 |



TEST NUMBER: P242644

CATALOG NUMBER: S124DR-S575D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.2 | 3.5 |
| 10°-20° | 262.9 | 10.9 |
| 20°-30° | 417.7 | 17.3 |
| 30°-40° | 464.1 | 19.2 |
| 40°-50° | 422.1 | 17.5 |
| 50°-60° | 344.9 | 14.3 |
| 60°-70° | 246.2 | 10.2 |
| 70°-80° | 135.5 | 5.6 |
| 80°-90° | 36.6 | 1.5 |
| 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° | 765.8 | 31.7 |
| 0°-40° | 1229.8 | 50.9 |
| 0°-60° | 1996.8 | 82.7 |
| 0°-90° | 2415.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2415.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 875 | 875 | 875 | 875 | 875 | |
| 5° | 1027 | 970 | 874 | 786 | 772 | 104 |
| 15° | 1410 | 1197 | 835 | 658 | 618 | 399 |
| 25° | 1497 | 1337 | 764 | 541 | 502 | 664 |
| 35° | 885 | 1247 | 663 | 447 | 445 | 560 |
| 45° | 497 | 861 | 529 | 370 | 398 | 390 |
| 55° | 325 | 518 | 373 | 290 | 347 | 293 |
| 65° | 209 | 289 | 232 | 201 | 278 | 207 |
| 75° | 104 | 134 | 113 | 112 | 172 | 111 |
| 85° | 22 | 28 | 22 | 32 | 54 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242644

CATALOG NUMBER: S124DR-S575D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 |
| 2.5° | 945.5 | 945.2 | 941.6 | 940.8 | 938.3 | 935.0 | 934.3 | 928.5 | 916.9 | 911.5 | 910.0 |
| 5° | 1026.8 | 1034.0 | 1024.6 | 1022.8 | 1021.7 | 1009.7 | 1003.6 | 996.3 | 979.6 | 969.8 | 962.2 |
| 7.5° | 1121.8 | 1122.1 | 1118.1 | 1114.1 | 1107.2 | 1097.1 | 1083.3 | 1067.4 | 1048.2 | 1028.6 | 1014.8 |
| 10° | 1215.3 | 1218.2 | 1213.5 | 1212.8 | 1194.3 | 1182.7 | 1159.5 | 1139.9 | 1117.4 | 1092.4 | 1069.5 |
| 12.5° | 1313.9 | 1308.1 | 1306.3 | 1287.1 | 1287.4 | 1263.9 | 1236.0 | 1215.7 | 1177.9 | 1148.2 | 1116.0 |
| 15° | 1410.3 | 1402.4 | 1397.3 | 1375.9 | 1365.4 | 1336.0 | 1307.4 | 1285.3 | 1239.9 | 1196.8 | 1164.2 |
| 17.5° | 1466.2 | 1476.0 | 1462.9 | 1454.2 | 1425.6 | 1406.4 | 1377.7 | 1332.4 | 1298.7 | 1245.0 | 1207.7 |
| 20° | 1527.8 | 1528.5 | 1522.0 | 1513.0 | 1491.6 | 1465.5 | 1433.6 | 1382.8 | 1340.4 | 1287.1 | 1230.5 |
| 22.5° | 1544.5 | 1544.5 | 1542.7 | 1534.3 | 1519.5 | 1499.5 | 1467.3 | 1427.0 | 1373.4 | 1314.3 | 1257.7 |
| 25° | 1497.4 | 1495.9 | 1499.2 | 1508.6 | 1502.4 | 1495.9 | 1477.4 | 1445.9 | 1398.0 | 1336.7 | 1275.8 |
| 27.5° | 1363.9 | 1373.4 | 1392.9 | 1416.1 | 1432.8 | 1447.7 | 1446.6 | 1433.2 | 1399.1 | 1346.2 | 1281.3 |
| 30° | 1217.5 | 1229.8 | 1243.6 | 1266.8 | 1311.7 | 1337.5 | 1365.8 | 1387.1 | 1375.2 | 1334.9 | 1275.5 |
| 32.5° | 1056.5 | 1057.2 | 1079.3 | 1106.5 | 1146.8 | 1202.2 | 1251.2 | 1300.1 | 1321.2 | 1304.8 | 1257.7 |
| 35° | 885.4 | 890.4 | 912.6 | 938.7 | 989.1 | 1049.6 | 1117.0 | 1177.2 | 1226.9 | 1246.8 | 1221.5 |
| 37.5° | 741.8 | 757.7 | 774.4 | 804.2 | 850.2 | 904.9 | 977.5 | 1052.5 | 1125.4 | 1169.6 | 1174.3 |
| 40° | 645.4 | 654.4 | 665.7 | 687.0 | 724.8 | 778.4 | 838.6 | 927.8 | 1006.5 | 1077.5 | 1100.7 |
| 42.5° | 569.2 | 573.6 | 579.4 | 598.2 | 624.7 | 678.0 | 731.6 | 807.4 | 886.5 | 974.9 | 1017.7 |
| 45° | 496.7 | 502.1 | 513.7 | 525.0 | 546.7 | 583.7 | 634.8 | 699.4 | 778.8 | 860.7 | 932.5 |
| 47.5° | 442.3 | 445.9 | 453.2 | 465.5 | 485.1 | 510.1 | 553.6 | 608.4 | 686.0 | 765.4 | 842.2 |
| 50° | 397.4 | 400.3 | 405.7 | 416.6 | 430.7 | 452.5 | 486.6 | 536.9 | 594.6 | 674.7 | 749.8 |
| 52.5° | 361.8 | 362.6 | 366.2 | 372.7 | 383.2 | 400.6 | 427.1 | 466.6 | 519.2 | 588.4 | 663.1 |
| 55° | 324.9 | 326.3 | 329.9 | 335.4 | 345.2 | 356.8 | 378.1 | 409.3 | 456.1 | 518.1 | 583.0 |
| 57.5° | 294.4 | 295.8 | 298.7 | 300.9 | 309.6 | 319.4 | 336.8 | 359.3 | 395.9 | 451.0 | 510.1 |
| 60° | 265.4 | 264.7 | 268.3 | 270.1 | 275.5 | 283.5 | 296.2 | 317.6 | 348.4 | 390.8 | 444.1 |
| 62.5° | 237.1 | 236.0 | 238.9 | 241.5 | 244.0 | 250.5 | 260.3 | 275.9 | 299.5 | 336.8 | 381.0 |
| 65° | 208.8 | 207.4 | 209.2 | 212.1 | 215.0 | 218.6 | 226.2 | 241.1 | 261.0 | 288.6 | 323.8 |
| 67.5° | 179.8 | 181.6 | 181.6 | 183.5 | 185.3 | 190.3 | 195.8 | 207.4 | 221.5 | 244.0 | 275.2 |
| 70° | 154.4 | 154.8 | 156.3 | 156.3 | 157.3 | 161.7 | 166.1 | 172.2 | 186.0 | 206.3 | 230.6 |
| 72.5° | 129.1 | 130.9 | 129.8 | 131.2 | 132.0 | 134.5 | 137.4 | 143.2 | 154.4 | 168.2 | 187.8 |
| 75° | 104.4 | 105.5 | 105.5 | 105.9 | 107.0 | 108.0 | 110.6 | 114.9 | 123.3 | 134.5 | 148.6 |
| 77.5° | 80.5 | 80.5 | 81.2 | 82.7 | 82.7 | 84.5 | 86.7 | 89.9 | 94.6 | 103.0 | 112.0 |
| 80° | 58.7 | 59.5 | 59.1 | 59.8 | 59.8 | 61.3 | 62.0 | 66.3 | 68.2 | 73.2 | 80.1 |
| 82.5° | 39.2 | 39.9 | 39.9 | 41.0 | 41.7 | 41.7 | 42.8 | 43.9 | 45.7 | 50.0 | 51.8 |
| 85° | 21.8 | 22.5 | 21.8 | 22.5 | 23.6 | 23.9 | 25.0 | 25.4 | 26.8 | 27.9 | 30.5 |
| 87.5° | 8.0 | 9.1 | 9.1 | 9.4 | 10.2 | 10.5 | 10.9 | 10.5 | 12.0 | 12.3 | 13.8 |
| 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: P242644

CATALOG NUMBER: S124DR-S575D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 |
| 2.5° | 910.4 | 905.3 | 901.7 | 898.8 | 890.8 | 886.1 | 882.5 | 877.4 | 871.6 | 865.4 | 857.8 |
| 5° | 954.6 | 942.3 | 933.2 | 919.4 | 906.4 | 895.5 | 884.3 | 874.1 | 861.8 | 848.4 | 838.6 |
| 7.5° | 999.9 | 982.9 | 960.1 | 942.3 | 920.9 | 902.4 | 886.1 | 869.0 | 850.9 | 833.5 | 817.2 |
| 10° | 1042.7 | 1019.1 | 993.0 | 962.2 | 933.2 | 907.5 | 883.6 | 860.3 | 837.9 | 815.4 | 796.2 |
| 12.5° | 1088.8 | 1057.9 | 1016.2 | 978.9 | 945.5 | 908.9 | 878.8 | 849.1 | 820.8 | 796.9 | 773.7 |
| 15° | 1129.0 | 1086.6 | 1042.0 | 993.8 | 951.0 | 910.7 | 871.2 | 835.3 | 804.9 | 773.7 | 751.9 |
| 17.5° | 1154.4 | 1101.8 | 1054.0 | 1003.6 | 954.2 | 903.9 | 862.9 | 822.6 | 784.9 | 754.5 | 727.3 |
| 20° | 1179.4 | 1127.2 | 1063.7 | 1013.3 | 951.7 | 899.5 | 850.2 | 804.2 | 764.3 | 731.3 | 703.0 |
| 22.5° | 1201.2 | 1138.8 | 1075.3 | 1005.0 | 943.7 | 887.5 | 832.4 | 786.0 | 745.1 | 709.9 | 683.1 |
| 25° | 1206.2 | 1137.0 | 1068.1 | 1002.1 | 932.5 | 866.9 | 817.9 | 763.5 | 720.0 | 683.4 | 654.4 |
| 27.5° | 1208.0 | 1134.8 | 1058.3 | 986.5 | 914.7 | 854.9 | 791.1 | 743.6 | 698.6 | 659.9 | 632.3 |
| 30° | 1204.1 | 1126.8 | 1043.1 | 963.7 | 891.5 | 825.2 | 771.5 | 718.6 | 672.5 | 634.1 | 605.1 |
| 32.5° | 1191.4 | 1110.1 | 1023.5 | 938.3 | 862.9 | 798.4 | 742.5 | 692.8 | 648.3 | 610.5 | 579.7 |
| 35° | 1164.5 | 1085.1 | 993.4 | 906.0 | 829.5 | 763.9 | 713.9 | 662.8 | 617.8 | 581.9 | 552.5 |
| 37.5° | 1128.6 | 1054.7 | 961.5 | 870.5 | 796.9 | 730.2 | 679.8 | 632.7 | 592.1 | 555.1 | 524.6 |
| 40° | 1078.6 | 1015.5 | 922.0 | 833.9 | 752.7 | 689.9 | 643.5 | 601.1 | 560.9 | 526.4 | 497.8 |
| 42.5° | 1021.0 | 968.0 | 883.6 | 788.9 | 711.3 | 648.3 | 603.3 | 566.3 | 529.0 | 497.8 | 469.1 |
| 45° | 950.3 | 914.0 | 832.8 | 746.5 | 664.9 | 605.5 | 562.3 | 529.0 | 497.1 | 465.9 | 442.0 |
| 47.5° | 871.6 | 851.3 | 780.6 | 697.9 | 619.6 | 560.2 | 522.8 | 490.9 | 461.9 | 434.7 | 413.3 |
| 50° | 792.2 | 783.5 | 724.4 | 645.4 | 571.4 | 516.3 | 478.6 | 452.1 | 428.2 | 405.0 | 385.0 |
| 52.5° | 713.9 | 715.7 | 663.8 | 593.1 | 526.1 | 473.5 | 436.2 | 411.9 | 391.9 | 374.2 | 356.8 |
| 55° | 633.7 | 643.9 | 602.2 | 537.7 | 476.4 | 428.5 | 394.8 | 372.7 | 358.2 | 342.6 | 329.2 |
| 57.5° | 560.2 | 577.2 | 540.9 | 481.8 | 430.0 | 384.3 | 354.6 | 337.5 | 321.6 | 311.4 | 300.9 |
| 60° | 488.4 | 504.3 | 477.5 | 429.6 | 381.4 | 343.7 | 315.8 | 300.9 | 287.5 | 281.0 | 274.1 |
| 62.5° | 424.6 | 438.3 | 420.2 | 376.7 | 336.5 | 300.6 | 278.1 | 263.9 | 256.0 | 248.7 | 244.7 |
| 65° | 364.4 | 376.3 | 359.3 | 327.0 | 291.1 | 262.1 | 242.9 | 231.7 | 223.0 | 220.1 | 215.0 |
| 67.5° | 304.9 | 315.8 | 306.7 | 278.4 | 248.0 | 225.1 | 209.9 | 198.0 | 192.9 | 190.0 | 186.7 |
| 70° | 253.1 | 263.9 | 254.2 | 230.2 | 208.1 | 189.6 | 175.5 | 169.3 | 163.9 | 162.8 | 157.7 |
| 72.5° | 209.2 | 215.7 | 205.9 | 188.5 | 170.4 | 155.5 | 145.4 | 138.9 | 136.7 | 134.5 | 132.3 |
| 75° | 163.5 | 170.0 | 163.5 | 149.0 | 135.6 | 124.7 | 115.3 | 112.8 | 109.5 | 108.4 | 106.6 |
| 77.5° | 122.5 | 128.7 | 123.6 | 113.8 | 103.3 | 94.3 | 88.8 | 85.2 | 84.8 | 82.7 | 83.4 |
| 80° | 88.5 | 92.1 | 87.4 | 81.2 | 73.2 | 67.4 | 63.8 | 62.0 | 59.8 | 59.1 | 60.5 |
| 82.5° | 57.3 | 58.4 | 56.6 | 52.9 | 47.5 | 44.2 | 42.1 | 39.9 | 39.9 | 40.2 | 39.9 |
| 85° | 33.0 | 32.6 | 32.3 | 28.6 | 26.8 | 24.3 | 22.8 | 22.5 | 22.1 | 22.8 | 23.6 |
| 87.5° | 13.8 | 14.1 | 13.8 | 12.3 | 11.2 | 10.2 | 9.8 | 9.4 | 9.8 | 10.2 | 10.5 |
| 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: P242644

CATALOG NUMBER: S124DR-S575D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 | 875.2 |
| 2.5° | 854.2 | 850.9 | 846.2 | 839.7 | 834.2 | 828.4 | 827.0 | 824.8 | 829.2 | 825.5 | 824.5 |
| 5° | 830.3 | 822.6 | 812.9 | 801.6 | 795.1 | 785.7 | 783.8 | 780.2 | 776.6 | 776.2 | 772.6 |
| 7.5° | 805.2 | 794.7 | 782.4 | 770.8 | 760.6 | 750.5 | 744.0 | 743.2 | 737.4 | 734.5 | 730.9 |
| 10° | 781.3 | 767.5 | 752.7 | 741.8 | 729.5 | 718.6 | 711.0 | 706.6 | 703.0 | 699.0 | 695.4 |
| 12.5° | 753.0 | 738.2 | 726.6 | 714.6 | 699.4 | 691.8 | 678.0 | 669.6 | 669.6 | 670.7 | 659.9 |
| 15° | 732.4 | 717.9 | 699.0 | 682.3 | 674.4 | 658.4 | 651.5 | 642.8 | 637.4 | 631.9 | 627.6 |
| 17.5° | 707.0 | 689.2 | 674.7 | 655.9 | 641.0 | 629.0 | 619.6 | 614.9 | 606.2 | 598.2 | 592.8 |
| 20° | 683.4 | 664.2 | 648.6 | 628.3 | 611.6 | 596.0 | 588.4 | 581.2 | 575.0 | 568.5 | 562.3 |
| 22.5° | 659.5 | 639.2 | 619.2 | 599.7 | 584.4 | 567.8 | 560.5 | 550.0 | 544.2 | 541.3 | 535.1 |
| 25° | 634.1 | 612.4 | 590.6 | 571.8 | 555.8 | 541.3 | 531.5 | 523.9 | 517.4 | 514.5 | 510.5 |
| 27.5° | 606.6 | 585.2 | 564.5 | 542.7 | 524.3 | 513.7 | 505.8 | 499.6 | 495.6 | 491.3 | 489.5 |
| 30° | 580.5 | 558.0 | 535.5 | 515.6 | 498.9 | 488.4 | 481.1 | 477.1 | 474.2 | 472.4 | 470.6 |
| 32.5° | 554.0 | 531.9 | 507.9 | 490.2 | 475.7 | 466.6 | 461.5 | 457.5 | 456.5 | 456.1 | 455.7 |
| 35° | 525.3 | 502.9 | 481.1 | 464.8 | 450.7 | 447.0 | 442.3 | 440.1 | 439.4 | 442.0 | 443.0 |
| 37.5° | 497.8 | 476.8 | 456.5 | 440.1 | 430.7 | 424.9 | 423.1 | 422.7 | 425.3 | 427.5 | 430.0 |
| 40° | 471.3 | 451.0 | 432.2 | 418.4 | 409.7 | 406.4 | 405.7 | 407.5 | 410.4 | 413.0 | 415.9 |
| 42.5° | 445.6 | 425.6 | 409.0 | 396.3 | 390.8 | 387.9 | 388.7 | 390.5 | 394.8 | 398.1 | 402.8 |
| 45° | 418.8 | 402.1 | 385.4 | 374.9 | 369.8 | 370.5 | 370.5 | 373.8 | 377.8 | 382.5 | 387.2 |
| 47.5° | 393.7 | 376.7 | 362.6 | 353.5 | 351.0 | 349.9 | 351.7 | 356.0 | 361.5 | 366.9 | 373.4 |
| 50° | 368.4 | 352.4 | 340.4 | 332.5 | 329.6 | 330.7 | 333.6 | 337.5 | 344.4 | 351.7 | 358.6 |
| 52.5° | 342.6 | 328.5 | 317.6 | 310.3 | 308.5 | 310.7 | 313.6 | 320.5 | 326.3 | 334.3 | 343.0 |
| 55° | 315.8 | 303.5 | 294.8 | 289.3 | 288.6 | 289.7 | 292.9 | 299.8 | 308.5 | 318.3 | 326.3 |
| 57.5° | 289.3 | 278.8 | 270.5 | 266.5 | 266.8 | 267.6 | 272.6 | 281.0 | 289.7 | 300.2 | 310.3 |
| 60° | 262.5 | 253.1 | 246.5 | 243.6 | 244.0 | 246.2 | 252.7 | 260.3 | 271.9 | 282.1 | 292.9 |
| 62.5° | 237.1 | 229.1 | 223.0 | 220.4 | 219.7 | 225.1 | 231.3 | 239.3 | 250.9 | 262.5 | 274.5 |
| 65° | 209.6 | 203.0 | 198.0 | 196.5 | 197.6 | 201.2 | 209.2 | 219.7 | 229.5 | 241.5 | 253.8 |
| 67.5° | 182.7 | 177.3 | 173.7 | 174.4 | 175.5 | 180.6 | 187.4 | 196.5 | 207.4 | 219.7 | 232.4 |
| 70° | 157.3 | 152.3 | 149.4 | 149.7 | 151.9 | 158.4 | 164.2 | 173.3 | 185.3 | 198.0 | 208.1 |
| 72.5° | 131.2 | 128.3 | 125.8 | 127.6 | 129.8 | 133.8 | 141.4 | 150.5 | 160.6 | 172.2 | 183.1 |
| 75° | 104.8 | 104.8 | 103.3 | 104.4 | 107.7 | 112.0 | 117.5 | 126.9 | 137.4 | 146.8 | 155.5 |
| 77.5° | 82.3 | 81.2 | 81.9 | 83.0 | 85.2 | 90.6 | 96.8 | 103.7 | 112.0 | 121.8 | 129.1 |
| 80° | 59.5 | 59.8 | 61.6 | 63.8 | 64.5 | 68.5 | 75.0 | 81.2 | 87.4 | 95.4 | 102.2 |
| 82.5° | 41.0 | 41.3 | 42.1 | 45.0 | 45.7 | 50.0 | 53.7 | 59.8 | 65.3 | 70.0 | 75.4 |
| 85° | 24.3 | 24.3 | 26.1 | 27.2 | 29.0 | 31.9 | 34.4 | 38.1 | 43.1 | 46.8 | 52.2 |
| 87.5° | 11.6 | 11.6 | 13.1 | 13.8 | 14.9 | 16.7 | 17.4 | 21.4 | 22.8 | 24.7 | 27.9 |
| 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: P242644

CATALOG NUMBER: S124DR-S575D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 875.2 | 875.2 | 875.2 | 875.2 |
| 2.5° | 823.7 | 823.0 | 820.5 | 820.1 |
| 5° | 770.4 | 768.6 | 767.5 | 771.5 |
| 7.5° | 730.2 | 728.7 | 725.5 | 724.4 |
| 10° | 691.8 | 690.3 | 687.4 | 686.7 |
| 12.5° | 654.8 | 651.5 | 651.5 | 652.6 |
| 15° | 622.9 | 621.4 | 617.4 | 618.5 |
| 17.5° | 590.2 | 588.8 | 583.4 | 588.8 |
| 20° | 559.8 | 556.9 | 554.3 | 554.0 |
| 22.5° | 530.8 | 528.2 | 528.6 | 525.7 |
| 25° | 507.6 | 505.0 | 504.3 | 502.5 |
| 27.5° | 488.7 | 487.3 | 485.8 | 486.6 |
| 30° | 471.7 | 471.3 | 470.6 | 470.6 |
| 32.5° | 457.5 | 457.5 | 458.3 | 458.3 |
| 35° | 444.5 | 445.6 | 446.3 | 445.2 |
| 37.5° | 432.9 | 433.6 | 434.7 | 435.8 |
| 40° | 419.1 | 421.7 | 422.4 | 424.2 |
| 42.5° | 406.1 | 409.0 | 411.1 | 411.1 |
| 45° | 392.6 | 395.5 | 398.1 | 398.1 |
| 47.5° | 378.9 | 382.9 | 385.4 | 385.8 |
| 50° | 364.7 | 369.8 | 372.3 | 374.2 |
| 52.5° | 351.0 | 356.0 | 359.7 | 360.4 |
| 55° | 334.6 | 341.9 | 345.9 | 347.3 |
| 57.5° | 320.1 | 326.7 | 331.0 | 332.1 |
| 60° | 302.7 | 310.0 | 315.8 | 316.9 |
| 62.5° | 285.0 | 292.6 | 297.7 | 300.9 |
| 65° | 263.9 | 271.6 | 276.6 | 277.7 |
| 67.5° | 241.8 | 249.8 | 253.1 | 255.2 |
| 70° | 218.3 | 224.4 | 228.0 | 229.9 |
| 72.5° | 191.4 | 198.0 | 202.3 | 202.3 |
| 75° | 163.9 | 169.7 | 171.9 | 171.9 |
| 77.5° | 135.2 | 138.5 | 141.4 | 142.1 |
| 80° | 107.7 | 109.5 | 111.7 | 111.7 |
| 82.5° | 79.4 | 80.9 | 83.0 | 82.7 |
| 85° | 51.5 | 54.7 | 54.4 | 53.7 |
| 87.5° | 29.0 | 29.4 | 30.5 | 31.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)