

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: P332664-830

Luminaire Tested: **S124DIP-S1020D1205U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332664-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D1205U830-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8500.7 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

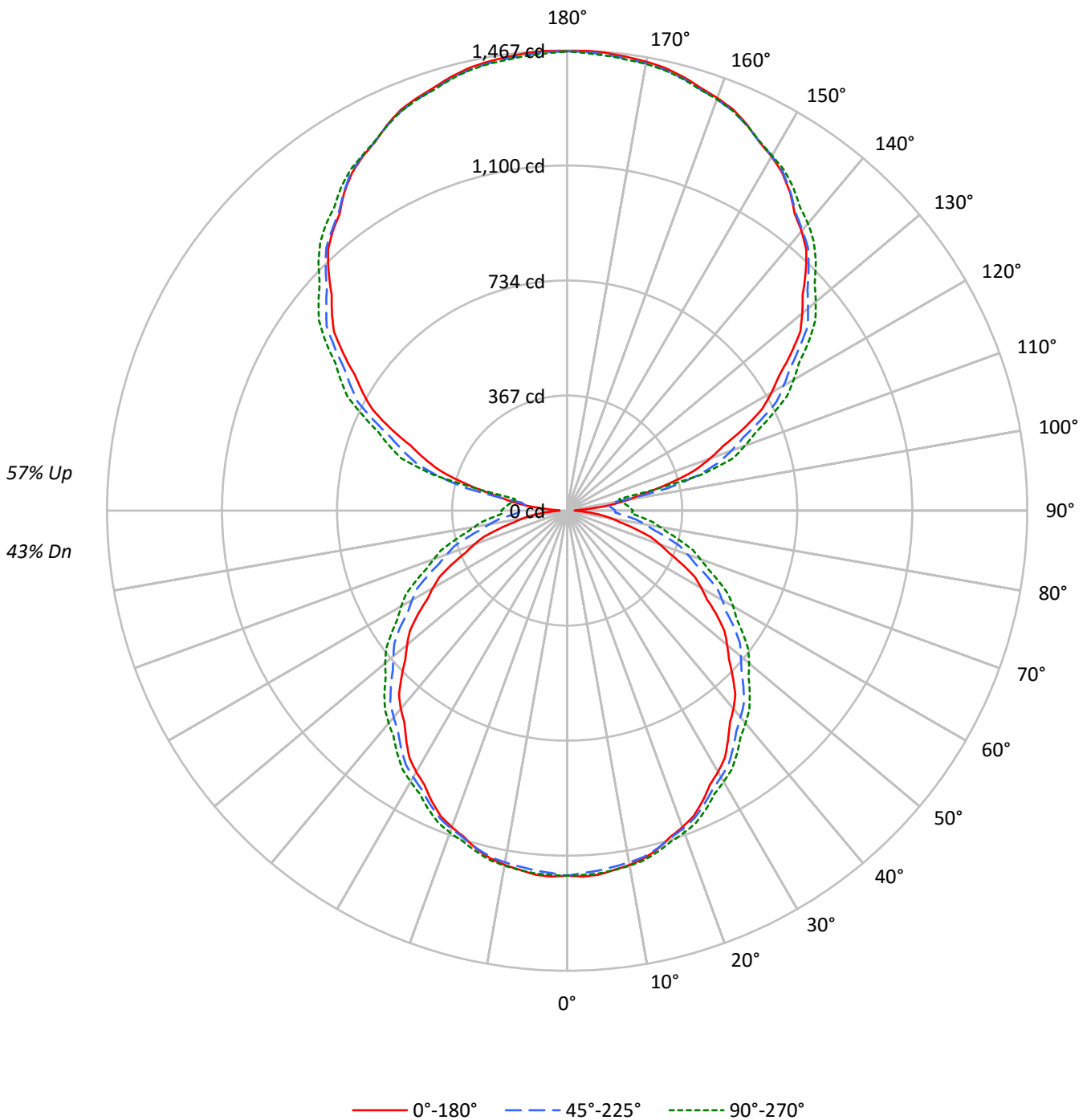
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332664-830

CATALOG NUMBER: S124DIP-S1020D1205U830-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332664-830

CATALOG NUMBER: S124DIP-S1020D1205U830-4F0-1E-UDD-D

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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 96 | 96 | 96 | 96 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 43 | | | | 43 |
| 1 | 95 | 91 | 87 | 83 | 87 | 83 | 79 | 76 | 68 | 66 | 63 | 55 | 53 | 52 | 43 | 41 | 40 | | | | 35 | |
| 2 | 86 | 79 | 72 | 67 | 79 | 72 | 66 | 62 | 59 | 55 | 52 | 48 | 45 | 42 | 37 | 35 | 33 | | | | 28 | |
| 3 | 79 | 69 | 61 | 55 | 71 | 63 | 56 | 51 | 52 | 47 | 43 | 42 | 38 | 35 | 32 | 30 | 28 | | | | 23 | |
| 4 | 72 | 61 | 53 | 46 | 65 | 56 | 48 | 43 | 46 | 41 | 36 | 37 | 33 | 30 | 29 | 26 | 24 | | | | 20 | |
| 5 | 66 | 54 | 46 | 39 | 60 | 49 | 42 | 37 | 41 | 35 | 31 | 33 | 29 | 26 | 26 | 23 | 21 | | | | 17 | |
| 6 | 60 | 48 | 40 | 34 | 55 | 44 | 37 | 32 | 37 | 31 | 27 | 30 | 26 | 22 | 23 | 20 | 18 | | | | 15 | |
| 7 | 56 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | | | | 13 | |
| 8 | 52 | 39 | 31 | 26 | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 17 | 19 | 16 | 14 | | | | 12 | |
| 9 | 48 | 36 | 28 | 23 | 44 | 33 | 26 | 22 | 28 | 22 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | | | | 10 | |
| 10 | 45 | 33 | 25 | 21 | 41 | 30 | 24 | 19 | 25 | 20 | 17 | 21 | 17 | 14 | 17 | 14 | 11 | | | | 9 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9395 | 9395 | 9395 |
| 5° | 9424 | 9182 | 9208 |
| 10° | 9366 | 9032 | 9024 |
| 15° | 9282 | 8858 | 8809 |
| 20° | 9156 | 8666 | 8599 |
| 25° | 9013 | 8450 | 8368 |
| 30° | 8859 | 8237 | 8131 |
| 35° | 8684 | 8018 | 7924 |
| 40° | 8544 | 7809 | 7708 |
| 45° | 8336 | 7617 | 7522 |
| 50° | 8161 | 7395 | 7326 |
| 55° | 7979 | 7187 | 7096 |
| 60° | 7697 | 6921 | 6885 |
| 65° | 7387 | 6635 | 6628 |
| 70° | 7013 | 6309 | 6327 |
| 75° | 6486 | 5950 | 6056 |
| 80° | 5904 | 5605 | 5788 |
| 85° | 5170 | 5301 | 5633 |



TEST NUMBER: P332664-830

CATALOG NUMBER: S124DIP-S1020D1205U830-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.2 | 1.3 |
| 10°-20° | 315.7 | 3.7 |
| 20°-30° | 477.4 | 5.6 |
| 30°-40° | 577.6 | 6.8 |
| 40°-50° | 610.7 | 7.2 |
| 50°-60° | 574.7 | 6.8 |
| 60°-70° | 476.8 | 5.6 |
| 70°-80° | 334.9 | 3.9 |
| 80°-90° | 193.6 | 2.3 |
| 90°-100° | 162.5 | 1.9 |
| 100°-110° | 402.5 | 4.7 |
| 110°-120° | 666.7 | 7.8 |
| 120°-130° | 807.0 | 9.5 |
| 130°-140° | 843.3 | 9.9 |
| 140°-150° | 778.6 | 9.2 |
| 150°-160° | 625.7 | 7.4 |
| 160°-170° | 403.5 | 4.7 |
| 170°-180° | 139.1 | 1.6 |
| 0°-30° | 903.4 | 10.6 |
| 0°-40° | 1481.0 | 17.4 |
| 0°-60° | 2666.4 | 31.4 |
| 0°-90° | 3671.8 | 43.2 |
| 90°-120° | 1231.8 | 14.5 |
| 90°-150° | 3660.6 | 43.1 |
| 90°-180° | 4829.0 | 56.8 |
| 0°-180° | 8500.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1164 | 1164 | 1164 | 1164 | 1164 | |
| 5° | 1165 | 1161 | 1152 | 1162 | 1161 | 111 |
| 15° | 1117 | 1118 | 1114 | 1125 | 1125 | 315 |
| 25° | 1022 | 1029 | 1033 | 1047 | 1049 | 470 |
| 35° | 894 | 910 | 923 | 940 | 945 | 560 |
| 45° | 745 | 770 | 795 | 816 | 824 | 576 |
| 55° | 584 | 612 | 650 | 675 | 684 | 520 |
| 65° | 404 | 446 | 490 | 521 | 533 | 400 |
| 75° | 224 | 273 | 327 | 362 | 375 | 238 |
| 85° | 69 | 124 | 182 | 220 | 235 | 74 |
| 90° | 24 | 88 | 153 | 196 | 210 | 17 |
| 95° | 77 | 86 | 137 | 178 | 192 | 91 |
| 105° | 341 | 375 | 428 | 466 | 441 | 358 |
| 115° | 623 | 640 | 679 | 709 | 719 | 614 |
| 125° | 870 | 875 | 904 | 931 | 941 | 777 |
| 135° | 1076 | 1076 | 1088 | 1111 | 1121 | 829 |
| 145° | 1239 | 1241 | 1241 | 1250 | 1257 | 774 |
| 155° | 1357 | 1358 | 1355 | 1359 | 1356 | 625 |
| 165° | 1431 | 1426 | 1426 | 1434 | 1425 | 404 |
| 175° | 1464 | 1458 | 1459 | 1467 | 1456 | 139 |
| 180° | 1464 | 1464 | 1464 | 1464 | 1464 | |



TEST NUMBER: P332664-830

CATALOG NUMBER: S124DIP-S1020D1205U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 |
| 2.5° | 1167.9 | 1167.2 | 1166.5 | 1165.8 | 1165.1 | 1163.9 | 1162.0 | 1160.2 | 1158.3 | 1156.4 | 1158.0 |
| 5° | 1165.0 | 1164.1 | 1163.3 | 1162.4 | 1161.6 | 1160.1 | 1158.1 | 1156.0 | 1154.0 | 1152.0 | 1154.3 |
| 7.5° | 1155.1 | 1154.6 | 1154.0 | 1153.6 | 1153.0 | 1152.0 | 1150.3 | 1148.6 | 1146.9 | 1145.2 | 1147.8 |
| 10° | 1146.8 | 1146.5 | 1146.2 | 1145.9 | 1145.7 | 1144.7 | 1143.3 | 1141.9 | 1140.4 | 1139.0 | 1141.6 |
| 12.5° | 1135.3 | 1135.3 | 1135.2 | 1135.1 | 1135.1 | 1134.5 | 1133.6 | 1132.6 | 1131.6 | 1130.6 | 1133.0 |
| 15° | 1116.8 | 1117.1 | 1117.4 | 1117.7 | 1117.9 | 1117.7 | 1116.8 | 1116.0 | 1115.0 | 1114.2 | 1116.8 |
| 17.5° | 1091.6 | 1092.4 | 1093.3 | 1094.1 | 1095.0 | 1095.3 | 1095.1 | 1095.0 | 1094.9 | 1094.7 | 1097.3 |
| 20° | 1073.8 | 1074.7 | 1075.5 | 1076.4 | 1077.3 | 1077.9 | 1078.2 | 1078.5 | 1078.7 | 1079.0 | 1081.9 |
| 22.5° | 1054.0 | 1055.1 | 1056.2 | 1057.3 | 1058.4 | 1059.2 | 1059.7 | 1060.3 | 1060.7 | 1061.3 | 1064.2 |
| 25° | 1021.7 | 1023.4 | 1025.1 | 1026.9 | 1028.6 | 1029.9 | 1030.8 | 1031.7 | 1032.6 | 1033.4 | 1036.6 |
| 27.5° | 985.7 | 988.3 | 990.8 | 993.3 | 995.9 | 997.9 | 999.2 | 1000.5 | 1001.8 | 1003.1 | 1006.2 |
| 30° | 961.8 | 964.0 | 966.4 | 968.7 | 971.0 | 973.2 | 975.2 | 977.2 | 979.2 | 981.3 | 984.5 |
| 32.5° | 935.7 | 938.5 | 941.2 | 944.1 | 946.8 | 949.3 | 951.6 | 953.9 | 956.1 | 958.4 | 962.0 |
| 35° | 894.0 | 897.5 | 900.9 | 904.4 | 907.9 | 911.1 | 914.0 | 916.8 | 919.7 | 922.7 | 926.7 |
| 37.5° | 852.0 | 856.0 | 860.0 | 864.0 | 868.0 | 871.8 | 875.3 | 878.9 | 882.6 | 886.2 | 890.2 |
| 40° | 824.9 | 828.7 | 832.5 | 836.2 | 840.0 | 843.9 | 847.9 | 852.0 | 856.0 | 860.1 | 864.4 |
| 42.5° | 793.6 | 797.9 | 802.1 | 806.3 | 810.5 | 815.0 | 819.7 | 824.5 | 829.2 | 834.1 | 838.9 |
| 45° | 745.4 | 750.9 | 756.4 | 762.0 | 767.4 | 772.9 | 778.4 | 783.9 | 789.4 | 794.9 | 799.8 |
| 47.5° | 699.3 | 704.9 | 710.6 | 716.3 | 722.0 | 728.0 | 734.3 | 740.7 | 747.2 | 753.5 | 758.6 |
| 50° | 665.9 | 672.3 | 678.6 | 685.0 | 691.4 | 697.8 | 704.2 | 710.5 | 716.9 | 723.2 | 729.1 |
| 52.5° | 632.5 | 638.9 | 645.3 | 651.7 | 658.1 | 664.9 | 672.1 | 679.5 | 686.7 | 694.1 | 699.8 |
| 55° | 583.8 | 589.9 | 596.0 | 602.1 | 608.1 | 615.5 | 624.2 | 632.9 | 641.6 | 650.3 | 656.1 |
| 57.5° | 529.3 | 536.9 | 544.4 | 552.0 | 559.5 | 567.5 | 576.2 | 584.8 | 593.4 | 602.1 | 609.0 |
| 60° | 493.9 | 501.4 | 509.0 | 516.5 | 524.1 | 532.5 | 542.2 | 551.7 | 561.2 | 570.8 | 577.4 |
| 62.5° | 459.5 | 467.7 | 476.0 | 484.2 | 492.4 | 501.2 | 510.9 | 520.4 | 530.0 | 539.5 | 546.2 |
| 65° | 404.0 | 413.2 | 422.5 | 431.8 | 441.0 | 450.6 | 460.4 | 470.3 | 480.1 | 490.0 | 497.2 |
| 67.5° | 350.5 | 360.4 | 370.2 | 380.1 | 389.9 | 400.1 | 410.7 | 421.2 | 431.8 | 442.3 | 449.7 |
| 70° | 314.1 | 324.0 | 333.8 | 343.6 | 353.5 | 363.9 | 374.8 | 385.9 | 396.9 | 407.9 | 415.8 |
| 72.5° | 278.6 | 288.7 | 298.8 | 308.9 | 319.0 | 329.8 | 341.5 | 353.2 | 365.0 | 376.6 | 384.2 |
| 75° | 224.1 | 234.9 | 245.5 | 256.3 | 267.0 | 278.4 | 290.6 | 302.7 | 314.9 | 327.1 | 335.2 |
| 77.5° | 173.3 | 184.6 | 196.0 | 207.4 | 218.8 | 230.7 | 243.6 | 256.3 | 269.0 | 281.7 | 289.9 |
| 80° | 142.0 | 153.6 | 165.2 | 176.8 | 188.4 | 200.6 | 213.3 | 226.0 | 238.7 | 251.5 | 260.2 |
| 82.5° | 110.7 | 122.8 | 134.9 | 146.9 | 158.9 | 171.4 | 184.1 | 196.8 | 209.6 | 222.3 | 231.2 |
| 85° | 69.1 | 81.2 | 93.4 | 105.6 | 117.7 | 130.4 | 143.4 | 156.4 | 169.4 | 182.5 | 191.1 |
| 87.5° | 39.2 | 51.6 | 63.9 | 76.3 | 88.6 | 101.3 | 114.4 | 127.5 | 140.5 | 153.6 | 162.3 |
| 90° | 24.1 | 38.4 | 52.7 | 66.9 | 81.2 | 95.5 | 109.9 | 124.3 | 138.7 | 153.1 | 163.0 |
| 92.5° | 33.6 | 44.2 | 54.8 | 65.3 | 75.9 | 88.4 | 102.7 | 117.2 | 131.6 | 146.0 | 155.6 |
| 95° | 77.2 | 78.4 | 79.7 | 81.1 | 82.3 | 89.0 | 101.1 | 113.2 | 125.4 | 137.4 | 146.8 |
| 97.5° | 143.3 | 156.7 | 170.0 | 183.4 | 196.8 | 195.9 | 180.4 | 165.0 | 149.6 | 134.2 | 141.9 |
| 100° | 194.0 | 205.9 | 217.7 | 229.7 | 241.6 | 236.4 | 214.1 | 191.8 | 169.6 | 147.2 | 150.9 |
| 102.5° | 251.8 | 261.6 | 271.4 | 281.3 | 291.1 | 299.3 | 305.9 | 312.6 | 319.3 | 326.0 | 289.0 |
| 105° | 341.4 | 348.6 | 355.9 | 363.2 | 370.4 | 379.9 | 391.9 | 403.9 | 415.8 | 427.7 | 437.2 |
| 107.5° | 426.8 | 432.3 | 437.7 | 443.2 | 448.7 | 457.3 | 469.1 | 480.9 | 492.7 | 504.4 | 512.6 |
| 110° | 483.5 | 488.3 | 493.1 | 497.9 | 502.7 | 510.9 | 522.5 | 534.0 | 545.6 | 557.2 | 564.4 |



TEST NUMBER: P332664-830

CATALOG NUMBER: S124DIP-S1020D1205U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 538.6 | 543.5 | 548.4 | 553.3 | 558.2 | 565.8 | 576.2 | 586.5 | 596.9 | 607.3 | 613.6 |
| 115° | 623.3 | 626.7 | 630.0 | 633.3 | 636.7 | 642.8 | 651.9 | 660.9 | 670.0 | 678.9 | 685.8 |
| 117.5° | 700.8 | 703.3 | 705.9 | 708.4 | 711.0 | 716.8 | 725.9 | 735.2 | 744.3 | 753.5 | 759.4 |
| 120° | 752.3 | 754.2 | 756.0 | 757.9 | 759.7 | 764.7 | 772.9 | 781.0 | 789.2 | 797.3 | 803.6 |
| 122.5° | 801.4 | 802.2 | 803.0 | 803.7 | 804.5 | 809.0 | 817.2 | 825.5 | 833.8 | 842.1 | 848.1 |
| 125° | 870.4 | 871.1 | 871.8 | 872.5 | 873.2 | 876.8 | 883.6 | 890.4 | 897.1 | 903.9 | 910.1 |
| 127.5° | 936.7 | 936.7 | 936.6 | 936.6 | 936.5 | 939.9 | 946.6 | 953.2 | 959.9 | 966.6 | 971.7 |
| 130° | 978.6 | 978.5 | 978.5 | 978.5 | 978.5 | 981.1 | 986.5 | 991.8 | 997.2 | 1002.6 | 1008.0 |
| 132.5° | 1018.0 | 1018.2 | 1018.3 | 1018.5 | 1018.6 | 1021.1 | 1025.7 | 1030.3 | 1034.9 | 1039.5 | 1044.8 |
| 135° | 1075.9 | 1075.6 | 1075.4 | 1075.2 | 1074.9 | 1076.3 | 1079.3 | 1082.3 | 1085.3 | 1088.3 | 1093.4 |
| 137.5° | 1128.2 | 1128.0 | 1127.8 | 1127.7 | 1127.5 | 1128.4 | 1130.5 | 1132.6 | 1134.5 | 1136.6 | 1141.4 |
| 140° | 1162.4 | 1162.6 | 1162.8 | 1163.0 | 1163.2 | 1163.7 | 1164.5 | 1165.3 | 1166.0 | 1166.8 | 1171.3 |
| 142.5° | 1192.0 | 1192.9 | 1193.6 | 1194.5 | 1195.3 | 1195.8 | 1195.9 | 1196.0 | 1196.1 | 1196.3 | 1200.0 |
| 145° | 1238.9 | 1239.3 | 1239.7 | 1240.2 | 1240.7 | 1240.9 | 1240.9 | 1240.9 | 1240.9 | 1240.9 | 1242.8 |
| 147.5° | 1276.3 | 1277.4 | 1278.5 | 1279.5 | 1280.6 | 1281.0 | 1280.8 | 1280.5 | 1280.3 | 1280.1 | 1280.4 |
| 150° | 1303.4 | 1304.2 | 1304.9 | 1305.5 | 1306.2 | 1306.5 | 1306.2 | 1306.0 | 1305.7 | 1305.4 | 1305.4 |
| 152.5° | 1325.2 | 1326.0 | 1326.6 | 1327.4 | 1328.1 | 1328.2 | 1327.9 | 1327.4 | 1326.9 | 1326.5 | 1326.9 |
| 155° | 1357.0 | 1357.2 | 1357.4 | 1357.6 | 1357.9 | 1357.6 | 1357.0 | 1356.2 | 1355.5 | 1354.7 | 1355.8 |
| 157.5° | 1383.8 | 1383.7 | 1383.6 | 1383.5 | 1383.3 | 1382.8 | 1382.0 | 1381.2 | 1380.4 | 1379.5 | 1380.7 |
| 160° | 1399.7 | 1398.9 | 1398.2 | 1397.5 | 1396.8 | 1396.3 | 1396.0 | 1395.7 | 1395.5 | 1395.2 | 1396.8 |
| 162.5° | 1413.6 | 1412.8 | 1411.8 | 1410.9 | 1409.9 | 1409.4 | 1409.1 | 1408.9 | 1408.6 | 1408.4 | 1409.9 |
| 165° | 1431.4 | 1430.2 | 1429.0 | 1427.8 | 1426.5 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1427.9 |
| 167.5° | 1445.4 | 1444.2 | 1442.9 | 1441.6 | 1440.4 | 1439.6 | 1439.5 | 1439.4 | 1439.3 | 1439.1 | 1441.2 |
| 170° | 1453.3 | 1451.9 | 1450.4 | 1449.0 | 1447.5 | 1446.9 | 1447.1 | 1447.4 | 1447.6 | 1447.8 | 1449.8 |
| 172.5° | 1458.6 | 1457.1 | 1455.7 | 1454.2 | 1452.7 | 1452.1 | 1452.4 | 1452.6 | 1452.8 | 1453.1 | 1455.0 |
| 175° | 1464.2 | 1462.8 | 1461.3 | 1459.9 | 1458.4 | 1457.8 | 1458.0 | 1458.3 | 1458.6 | 1458.8 | 1460.9 |
| 177.5° | 1466.9 | 1465.6 | 1464.1 | 1462.8 | 1461.4 | 1460.9 | 1461.3 | 1461.7 | 1462.2 | 1462.5 | 1464.1 |
| 180° | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 |



TEST NUMBER: P332664-830

CATALOG NUMBER: S124DIP-S1020D1205U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 |
| 2.5° | 1159.7 | 1161.3 | 1162.9 | 1163.6 | 1163.4 | 1163.1 | 1162.9 | 1162.7 |
| 5° | 1156.6 | 1159.0 | 1161.3 | 1162.2 | 1162.0 | 1161.7 | 1161.4 | 1161.1 |
| 7.5° | 1150.5 | 1153.0 | 1155.7 | 1156.8 | 1156.5 | 1156.2 | 1155.9 | 1155.7 |
| 10° | 1144.2 | 1146.8 | 1149.4 | 1150.6 | 1150.3 | 1150.0 | 1149.7 | 1149.4 |
| 12.5° | 1135.4 | 1137.7 | 1140.1 | 1141.3 | 1141.2 | 1141.1 | 1141.1 | 1141.0 |
| 15° | 1119.5 | 1122.0 | 1124.6 | 1125.8 | 1125.5 | 1125.2 | 1124.9 | 1124.6 |
| 17.5° | 1099.9 | 1102.7 | 1105.3 | 1106.5 | 1106.3 | 1106.1 | 1105.8 | 1105.6 |
| 20° | 1084.8 | 1087.7 | 1090.6 | 1092.0 | 1092.0 | 1092.0 | 1092.0 | 1092.0 |
| 22.5° | 1067.1 | 1070.0 | 1072.9 | 1074.6 | 1075.1 | 1075.4 | 1075.9 | 1076.4 |
| 25° | 1039.8 | 1042.9 | 1046.1 | 1047.9 | 1048.2 | 1048.5 | 1048.8 | 1049.0 |
| 27.5° | 1009.1 | 1012.0 | 1015.0 | 1016.6 | 1017.0 | 1017.4 | 1017.7 | 1018.0 |
| 30° | 987.7 | 990.8 | 994.0 | 995.9 | 996.5 | 997.0 | 997.7 | 998.2 |
| 32.5° | 965.6 | 969.3 | 973.0 | 975.1 | 975.6 | 976.2 | 976.8 | 977.4 |
| 35° | 930.8 | 934.8 | 938.9 | 941.3 | 942.2 | 943.0 | 944.0 | 944.8 |
| 37.5° | 894.4 | 898.5 | 902.6 | 905.1 | 906.1 | 907.0 | 907.9 | 908.8 |
| 40° | 868.7 | 873.1 | 877.5 | 880.2 | 881.4 | 882.5 | 883.7 | 884.9 |
| 42.5° | 843.7 | 848.5 | 853.3 | 856.1 | 857.1 | 858.0 | 858.9 | 859.8 |
| 45° | 804.7 | 809.7 | 814.6 | 817.8 | 819.3 | 820.7 | 822.2 | 823.6 |
| 47.5° | 763.6 | 768.7 | 773.9 | 777.3 | 779.0 | 780.8 | 782.5 | 784.3 |
| 50° | 734.8 | 740.6 | 746.4 | 750.2 | 752.0 | 753.7 | 755.4 | 757.1 |
| 52.5° | 705.7 | 711.4 | 717.3 | 721.0 | 722.7 | 724.4 | 726.2 | 727.9 |
| 55° | 661.9 | 667.7 | 673.4 | 677.2 | 678.9 | 680.7 | 682.4 | 684.2 |
| 57.5° | 615.9 | 622.7 | 629.6 | 633.9 | 635.5 | 637.2 | 638.8 | 640.4 |
| 60° | 584.1 | 590.8 | 597.4 | 601.9 | 604.3 | 606.5 | 608.9 | 611.1 |
| 62.5° | 552.8 | 559.5 | 566.2 | 570.6 | 573.0 | 575.2 | 577.6 | 579.9 |
| 65° | 504.4 | 511.7 | 519.0 | 523.8 | 526.0 | 528.4 | 530.7 | 533.0 |
| 67.5° | 457.0 | 464.4 | 471.7 | 476.5 | 478.8 | 481.1 | 483.3 | 485.6 |
| 70° | 423.5 | 431.3 | 439.1 | 444.1 | 446.1 | 448.2 | 450.2 | 452.2 |
| 72.5° | 391.8 | 399.4 | 407.0 | 411.9 | 414.2 | 416.4 | 418.7 | 420.9 |
| 75° | 343.3 | 351.4 | 359.5 | 364.9 | 367.5 | 370.1 | 372.7 | 375.3 |
| 77.5° | 298.2 | 306.4 | 314.6 | 320.2 | 322.9 | 325.7 | 328.5 | 331.3 |
| 80° | 268.9 | 277.6 | 286.3 | 291.7 | 294.1 | 296.4 | 298.7 | 301.0 |
| 82.5° | 240.2 | 249.1 | 258.0 | 263.7 | 266.3 | 268.8 | 271.4 | 273.9 |
| 85° | 199.8 | 208.5 | 217.2 | 223.0 | 225.9 | 228.8 | 231.7 | 234.6 |
| 87.5° | 171.0 | 179.7 | 188.4 | 194.1 | 196.7 | 199.3 | 202.0 | 204.6 |
| 90° | 172.9 | 182.7 | 192.6 | 198.9 | 201.7 | 204.4 | 207.3 | 210.1 |
| 92.5° | 165.2 | 174.8 | 184.5 | 190.5 | 192.9 | 195.3 | 197.7 | 200.2 |
| 95° | 156.0 | 165.3 | 174.6 | 180.7 | 183.5 | 186.3 | 189.2 | 192.1 |
| 97.5° | 149.7 | 157.4 | 165.1 | 170.4 | 173.1 | 175.9 | 178.6 | 181.3 |
| 100° | 154.6 | 158.3 | 161.9 | 164.9 | 167.2 | 169.5 | 171.7 | 174.0 |
| 102.5° | 251.9 | 214.9 | 177.9 | 160.4 | 162.8 | 165.0 | 167.4 | 169.7 |
| 105° | 446.6 | 456.0 | 465.4 | 466.9 | 460.4 | 454.0 | 447.6 | 441.1 |
| 107.5° | 520.8 | 529.0 | 537.2 | 542.9 | 545.8 | 548.8 | 551.9 | 554.9 |
| 110° | 571.6 | 578.7 | 585.9 | 591.0 | 594.0 | 597.0 | 600.1 | 603.1 |



TEST NUMBER: P332664-830

CATALOG NUMBER: S124DIP-S1020D1205U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 619.9 | 626.2 | 632.5 | 637.3 | 640.6 | 643.9 | 647.1 | 650.4 |
| 115° | 692.7 | 699.6 | 706.3 | 710.8 | 712.8 | 714.8 | 716.9 | 718.9 |
| 117.5° | 765.3 | 771.3 | 777.2 | 781.3 | 783.4 | 785.7 | 787.9 | 790.1 |
| 120° | 809.9 | 816.1 | 822.5 | 826.5 | 828.3 | 830.2 | 832.0 | 833.8 |
| 122.5° | 854.2 | 860.4 | 866.4 | 870.2 | 871.9 | 873.5 | 875.1 | 876.7 |
| 125° | 916.3 | 922.6 | 928.8 | 932.9 | 934.9 | 936.9 | 938.9 | 940.8 |
| 127.5° | 976.8 | 981.8 | 986.8 | 990.2 | 992.0 | 993.8 | 995.6 | 997.4 |
| 130° | 1013.5 | 1018.9 | 1024.4 | 1027.9 | 1029.7 | 1031.4 | 1033.2 | 1034.9 |
| 132.5° | 1050.0 | 1055.3 | 1060.5 | 1063.8 | 1065.4 | 1067.0 | 1068.5 | 1070.0 |
| 135° | 1098.5 | 1103.6 | 1108.8 | 1112.5 | 1114.7 | 1116.9 | 1119.1 | 1121.3 |
| 137.5° | 1146.1 | 1150.9 | 1155.7 | 1158.7 | 1160.0 | 1161.3 | 1162.6 | 1163.9 |
| 140° | 1175.8 | 1180.3 | 1184.8 | 1187.9 | 1189.6 | 1191.3 | 1193.0 | 1194.7 |
| 142.5° | 1203.9 | 1207.8 | 1211.6 | 1214.2 | 1215.4 | 1216.6 | 1218.0 | 1219.2 |
| 145° | 1244.8 | 1246.8 | 1248.8 | 1250.6 | 1252.3 | 1253.9 | 1255.6 | 1257.2 |
| 147.5° | 1280.9 | 1281.3 | 1281.8 | 1282.5 | 1283.7 | 1284.9 | 1286.1 | 1287.2 |
| 150° | 1305.4 | 1305.4 | 1305.4 | 1305.6 | 1305.8 | 1306.1 | 1306.4 | 1306.6 |
| 152.5° | 1327.3 | 1327.7 | 1328.0 | 1328.1 | 1328.0 | 1327.9 | 1327.8 | 1327.6 |
| 155° | 1356.7 | 1357.6 | 1358.7 | 1358.8 | 1358.0 | 1357.3 | 1356.6 | 1355.8 |
| 157.5° | 1382.1 | 1383.3 | 1384.6 | 1384.6 | 1383.3 | 1382.1 | 1380.7 | 1379.5 |
| 160° | 1398.2 | 1399.7 | 1401.1 | 1401.1 | 1399.7 | 1398.2 | 1396.8 | 1395.2 |
| 162.5° | 1411.4 | 1412.8 | 1414.3 | 1414.2 | 1412.5 | 1410.9 | 1409.2 | 1407.5 |
| 165° | 1429.8 | 1431.8 | 1433.7 | 1433.6 | 1431.4 | 1429.2 | 1427.0 | 1424.8 |
| 167.5° | 1443.4 | 1445.5 | 1447.7 | 1447.5 | 1445.1 | 1442.7 | 1440.2 | 1437.8 |
| 170° | 1451.7 | 1453.7 | 1455.7 | 1455.4 | 1452.9 | 1450.5 | 1448.1 | 1445.7 |
| 172.5° | 1457.0 | 1459.0 | 1460.8 | 1460.6 | 1457.9 | 1455.3 | 1452.6 | 1450.0 |
| 175° | 1463.2 | 1465.4 | 1467.5 | 1467.2 | 1464.2 | 1461.3 | 1458.4 | 1455.5 |
| 177.5° | 1465.7 | 1467.2 | 1468.8 | 1468.4 | 1466.0 | 1463.7 | 1461.3 | 1459.1 |
| 180° | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 |

(END OF REPORT)