

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: P331401-830

Luminaire Tested: **S122DIP-S865D725U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331401-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S865D725U830-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

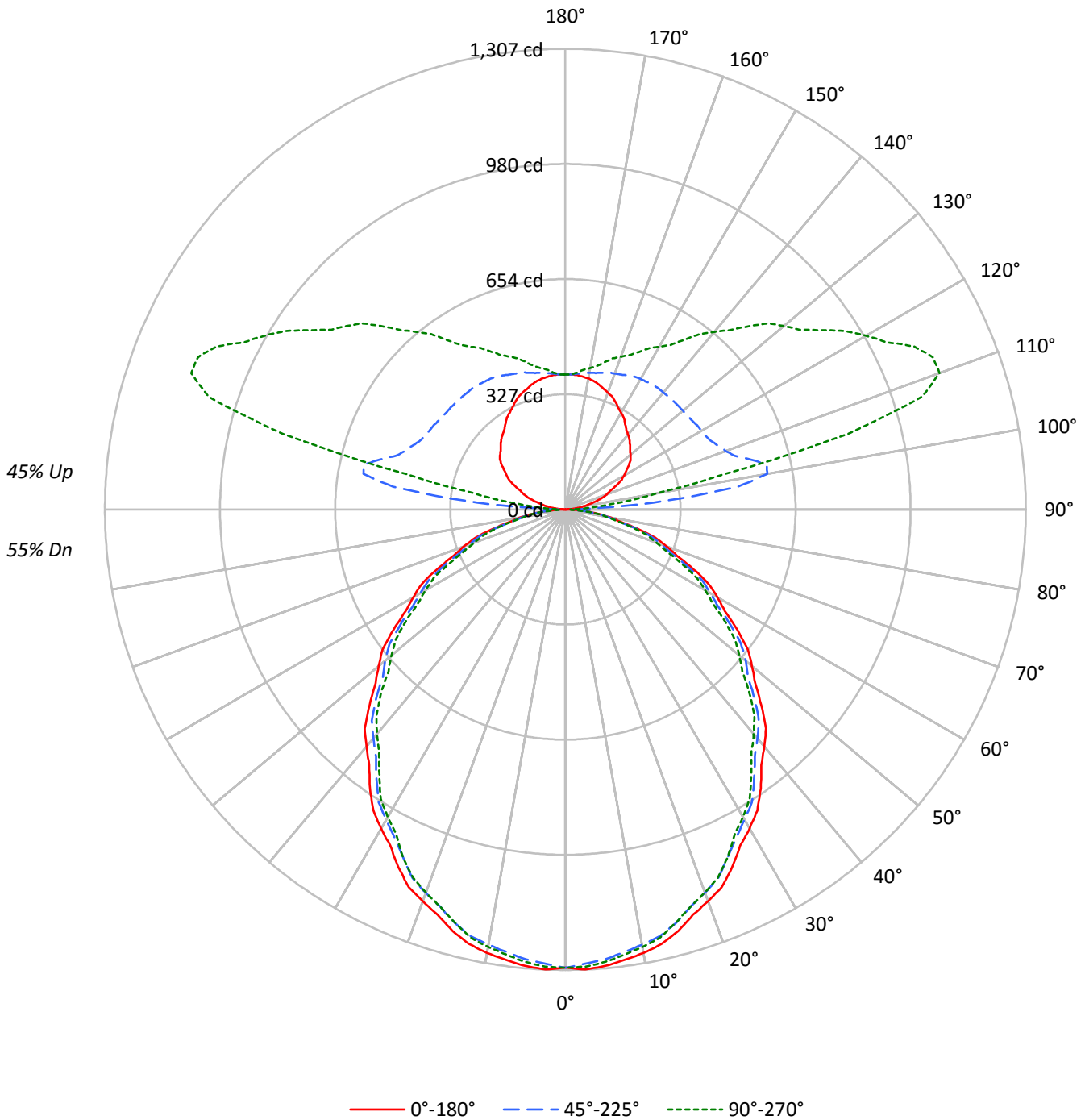
Lumens per Lamp: N/A
Luminaire Lumens: 5978.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 54.4
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: P331401-830
CATALOG NUMBER: S122DIP-S865D725U830-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331401-830

CATALOG NUMBER: S122DIP-S865D725U830-4F0-1E-UDD-F4

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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 99 | 95 | 91 | 87 | 92 | 88 | 85 | 82 | 76 | 73 | 71 | 64 | 63 | 61 | 54 | 53 | 52 | 47 |
| 2 | 90 | 83 | 76 | 71 | 83 | 77 | 72 | 67 | 66 | 62 | 59 | 57 | 54 | 51 | 48 | 45 | 43 | 39 |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 59 | 54 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |
| 4 | 75 | 64 | 56 | 50 | 70 | 60 | 53 | 47 | 52 | 47 | 42 | 45 | 40 | 37 | 38 | 34 | 32 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 54 | 46 | 41 | 47 | 41 | 36 | 40 | 36 | 32 | 34 | 31 | 28 | 25 |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 36 | 32 | 28 | 31 | 27 | 24 | 22 |
| 7 | 59 | 47 | 38 | 33 | 55 | 44 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 25 | 22 | 19 |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 26 | 22 | 26 | 22 | 20 | 17 |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 18 | 16 |
| 10 | 48 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 21001 | 21001 | 21001 |
| 5° | 21081 | 20778 | 20900 |
| 10° | 20956 | 20566 | 20669 |
| 15° | 20697 | 20301 | 20277 |
| 20° | 20330 | 19900 | 19878 |
| 25° | 19963 | 19408 | 19408 |
| 30° | 19494 | 18957 | 18793 |
| 35° | 19056 | 18413 | 18143 |
| 40° | 18506 | 17873 | 17530 |
| 45° | 17961 | 17335 | 16908 |
| 50° | 17372 | 16777 | 16179 |
| 55° | 16757 | 16124 | 15527 |
| 60° | 16075 | 15345 | 14783 |
| 65° | 15339 | 14571 | 13903 |
| 70° | 14408 | 13638 | 12987 |
| 75° | 13107 | 12558 | 12246 |
| 80° | 11632 | 11278 | 10702 |
| 85° | 9503 | 9040 | 8096 |



TEST NUMBER: P331401-830

CATALOG NUMBER: S122DIP-S865D725U830-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.3 | 2.0 |
| 10°-20° | 344.2 | 5.8 |
| 20°-30° | 505.9 | 8.5 |
| 30°-40° | 587.6 | 9.8 |
| 40°-50° | 587.0 | 9.8 |
| 50°-60° | 511.9 | 8.6 |
| 60°-70° | 378.5 | 6.3 |
| 70°-80° | 214.4 | 3.6 |
| 80°-90° | 61.1 | 1.0 |
| 90°-100° | 153.2 | 2.6 |
| 100°-110° | 519.8 | 8.7 |
| 110°-120° | 552.3 | 9.2 |
| 120°-130° | 454.6 | 7.6 |
| 130°-140° | 365.1 | 6.1 |
| 140°-150° | 275.9 | 4.6 |
| 150°-160° | 193.9 | 3.2 |
| 160°-170° | 114.1 | 1.9 |
| 170°-180° | 37.1 | 0.6 |
| 0°-30° | 972.3 | 16.3 |
| 0°-40° | 1559.9 | 26.1 |
| 0°-60° | 2658.7 | 44.5 |
| 0°-90° | 3312.7 | 55.4 |
| 90°-120° | 1225.3 | 20.5 |
| 90°-150° | 2320.9 | 38.8 |
| 90°-180° | 2666.0 | 44.6 |
| 0°-180° | 5978.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1301 | 1301 | 1301 | 1301 | 1301 | |
| 5° | 1301 | 1295 | 1282 | 1291 | 1290 | 123 |
| 15° | 1238 | 1230 | 1214 | 1219 | 1213 | 348 |
| 25° | 1121 | 1110 | 1089 | 1092 | 1089 | 515 |
| 35° | 967 | 954 | 934 | 927 | 920 | 603 |
| 45° | 787 | 777 | 759 | 746 | 740 | 607 |
| 55° | 595 | 587 | 573 | 558 | 552 | 532 |
| 65° | 402 | 394 | 381 | 370 | 364 | 397 |
| 75° | 210 | 207 | 201 | 194 | 196 | 224 |
| 85° | 51 | 50 | 49 | 45 | 44 | 59 |
| 90° | 1 | 10 | 25 | 24 | 24 | 4 |
| 95° | 26 | 63 | 289 | 109 | 84 | 27 |
| 105° | 90 | 136 | 546 | 976 | 830 | 96 |
| 115° | 158 | 200 | 457 | 943 | 1093 | 157 |
| 125° | 221 | 262 | 439 | 764 | 886 | 196 |
| 135° | 259 | 310 | 434 | 642 | 735 | 200 |
| 145° | 296 | 340 | 432 | 536 | 586 | 186 |
| 155° | 337 | 364 | 419 | 474 | 493 | 155 |
| 165° | 367 | 378 | 402 | 426 | 432 | 103 |
| 175° | 382 | 383 | 386 | 391 | 390 | 36 |
| 180° | 383 | 383 | 383 | 383 | 383 | |



TEST NUMBER: P331401-830

CATALOG NUMBER: S122DIP-S865D725U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 |
| 2.5° | 1306.7 | 1305.6 | 1304.5 | 1303.4 | 1302.3 | 1300.5 | 1298.1 | 1295.6 | 1293.2 | 1290.7 | 1293.0 |
| 5° | 1300.7 | 1299.6 | 1298.5 | 1297.4 | 1296.3 | 1294.2 | 1291.2 | 1288.1 | 1285.1 | 1282.0 | 1284.2 |
| 7.5° | 1289.2 | 1287.5 | 1285.8 | 1284.0 | 1282.3 | 1279.9 | 1276.8 | 1273.7 | 1270.5 | 1267.4 | 1269.7 |
| 10° | 1278.2 | 1276.3 | 1274.3 | 1272.3 | 1270.5 | 1267.8 | 1264.4 | 1261.1 | 1257.8 | 1254.4 | 1256.7 |
| 12.5° | 1263.2 | 1261.5 | 1259.8 | 1258.0 | 1256.3 | 1253.8 | 1250.5 | 1247.1 | 1243.8 | 1240.5 | 1242.0 |
| 15° | 1238.2 | 1236.5 | 1234.8 | 1233.2 | 1231.5 | 1228.9 | 1225.3 | 1221.6 | 1218.0 | 1214.5 | 1215.5 |
| 17.5° | 1206.2 | 1204.5 | 1202.9 | 1201.2 | 1199.5 | 1196.8 | 1193.2 | 1189.5 | 1185.8 | 1182.1 | 1183.5 |
| 20° | 1183.2 | 1181.5 | 1179.9 | 1178.2 | 1176.5 | 1173.7 | 1169.8 | 1165.9 | 1162.1 | 1158.2 | 1159.0 |
| 22.5° | 1160.2 | 1157.8 | 1155.5 | 1153.1 | 1150.8 | 1147.8 | 1144.2 | 1140.5 | 1136.8 | 1133.1 | 1133.3 |
| 25° | 1120.6 | 1118.4 | 1116.2 | 1114.0 | 1111.7 | 1108.2 | 1103.5 | 1098.8 | 1094.1 | 1089.4 | 1090.0 |
| 27.5° | 1075.6 | 1073.7 | 1071.6 | 1069.6 | 1067.6 | 1064.7 | 1061.0 | 1057.2 | 1053.6 | 1049.8 | 1049.0 |
| 30° | 1045.6 | 1043.4 | 1041.1 | 1039.0 | 1036.7 | 1033.5 | 1029.4 | 1025.2 | 1021.0 | 1016.8 | 1016.0 |
| 32.5° | 1013.6 | 1011.8 | 1010.0 | 1008.2 | 1006.4 | 1003.3 | 999.0 | 994.6 | 990.2 | 985.8 | 984.3 |
| 35° | 966.8 | 964.0 | 961.2 | 958.5 | 955.6 | 952.1 | 947.6 | 943.2 | 938.7 | 934.2 | 932.6 |
| 37.5° | 914.0 | 911.5 | 909.1 | 906.6 | 904.3 | 900.8 | 896.4 | 891.9 | 887.4 | 883.0 | 880.9 |
| 40° | 878.0 | 875.8 | 873.5 | 871.3 | 869.1 | 865.7 | 861.3 | 856.9 | 852.4 | 848.0 | 845.5 |
| 42.5° | 843.0 | 840.7 | 838.5 | 836.3 | 834.1 | 830.8 | 826.3 | 821.9 | 817.4 | 812.9 | 810.2 |
| 45° | 786.6 | 784.8 | 782.8 | 780.9 | 778.9 | 775.8 | 771.7 | 767.5 | 763.4 | 759.2 | 756.1 |
| 47.5° | 730.7 | 728.9 | 727.0 | 725.2 | 723.3 | 720.2 | 715.9 | 711.5 | 707.2 | 702.9 | 699.6 |
| 50° | 691.6 | 690.2 | 688.9 | 687.5 | 686.1 | 683.4 | 679.6 | 675.6 | 671.8 | 667.9 | 664.0 |
| 52.5° | 653.7 | 651.8 | 650.0 | 648.1 | 646.3 | 643.6 | 639.9 | 636.2 | 632.5 | 628.9 | 625.7 |
| 55° | 595.3 | 593.7 | 592.0 | 590.3 | 588.6 | 586.2 | 582.9 | 579.5 | 576.2 | 572.8 | 569.5 |
| 57.5° | 536.8 | 535.5 | 534.1 | 532.8 | 531.5 | 529.0 | 525.3 | 521.6 | 517.9 | 514.3 | 511.0 |
| 60° | 497.8 | 496.6 | 495.6 | 494.5 | 493.3 | 490.9 | 486.9 | 483.1 | 479.2 | 475.2 | 472.2 |
| 62.5° | 459.8 | 458.0 | 456.2 | 454.4 | 452.6 | 450.3 | 447.2 | 444.2 | 441.2 | 438.3 | 435.5 |
| 65° | 401.5 | 399.8 | 398.1 | 396.4 | 394.8 | 392.6 | 389.8 | 387.0 | 384.3 | 381.4 | 379.0 |
| 67.5° | 342.2 | 340.8 | 339.5 | 338.2 | 336.9 | 335.0 | 332.4 | 329.9 | 327.4 | 324.9 | 323.0 |
| 70° | 305.2 | 304.1 | 302.9 | 301.8 | 300.8 | 298.9 | 296.4 | 293.9 | 291.4 | 288.9 | 287.0 |
| 72.5° | 267.1 | 266.1 | 264.9 | 263.8 | 262.7 | 261.4 | 259.8 | 258.2 | 256.5 | 254.9 | 253.0 |
| 75° | 210.1 | 209.5 | 209.0 | 208.5 | 207.9 | 206.9 | 205.6 | 204.2 | 202.7 | 201.3 | 199.7 |
| 77.5° | 159.1 | 158.2 | 157.2 | 156.3 | 155.3 | 154.6 | 154.0 | 153.4 | 152.9 | 152.3 | 151.5 |
| 80° | 125.1 | 124.8 | 124.5 | 124.2 | 123.9 | 123.6 | 123.0 | 122.4 | 121.9 | 121.3 | 120.5 |
| 82.5° | 93.0 | 93.0 | 92.9 | 92.8 | 92.8 | 92.7 | 92.3 | 92.0 | 91.6 | 91.3 | 90.2 |
| 85° | 51.3 | 51.0 | 50.7 | 50.4 | 50.1 | 49.9 | 49.6 | 49.3 | 49.0 | 48.8 | 48.0 |
| 87.5° | 18.2 | 18.2 | 18.3 | 18.2 | 18.0 | 18.0 | 18.3 | 18.9 | 19.3 | 19.0 | 18.2 |
| 90° | 0.8 | 2.9 | 5.9 | 7.4 | 8.9 | 11.0 | 14.7 | 19.9 | 24.3 | 25.1 | 24.3 |
| 92.5° | 9.0 | 13.0 | 18.3 | 21.5 | 26.5 | 33.5 | 50.1 | 73.5 | 94.4 | 95.8 | 80.9 |
| 95° | 25.8 | 28.7 | 36.1 | 42.7 | 54.5 | 72.2 | 106.1 | 170.2 | 255.7 | 288.8 | 252.7 |
| 97.5° | 42.0 | 46.0 | 53.8 | 63.8 | 77.4 | 97.4 | 140.0 | 229.3 | 371.4 | 493.0 | 517.3 |
| 100° | 56.7 | 58.9 | 65.6 | 77.4 | 92.1 | 112.7 | 151.7 | 241.7 | 400.8 | 582.0 | 688.2 |
| 102.5° | 70.3 | 71.9 | 78.5 | 90.3 | 105.7 | 126.3 | 162.4 | 242.2 | 389.6 | 585.0 | 751.8 |
| 105° | 89.9 | 92.8 | 98.0 | 109.1 | 125.3 | 145.9 | 180.5 | 246.1 | 367.7 | 545.9 | 742.0 |
| 107.5° | 111.1 | 113.5 | 118.5 | 128.7 | 144.7 | 165.5 | 199.1 | 256.3 | 356.8 | 504.1 | 677.2 |
| 110° | 125.3 | 128.2 | 132.6 | 142.2 | 157.7 | 179.1 | 211.4 | 264.5 | 354.4 | 484.1 | 636.6 |



TEST NUMBER: P331401-830

CATALOG NUMBER: S122DIP-S865D725U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 138.2 | 141.2 | 146.2 | 155.1 | 170.0 | 192.0 | 223.3 | 273.3 | 355.0 | 471.1 | 608.3 |
| 115° | 158.4 | 162.1 | 166.5 | 175.3 | 190.1 | 210.0 | 241.7 | 286.6 | 358.1 | 456.9 | 573.3 |
| 117.5° | 179.4 | 182.3 | 186.7 | 194.5 | 208.7 | 229.3 | 258.6 | 300.8 | 363.4 | 449.9 | 551.1 |
| 120° | 192.3 | 195.3 | 199.6 | 206.3 | 221.0 | 241.7 | 270.4 | 310.2 | 366.9 | 445.7 | 539.3 |
| 122.5° | 204.7 | 207.1 | 211.4 | 218.7 | 233.4 | 254.7 | 281.6 | 318.5 | 371.1 | 443.4 | 529.3 |
| 125° | 221.0 | 223.3 | 227.6 | 236.5 | 251.3 | 271.8 | 298.4 | 331.6 | 377.2 | 439.1 | 515.0 |
| 127.5° | 234.0 | 237.0 | 243.2 | 252.9 | 267.0 | 288.2 | 314.1 | 343.7 | 383.6 | 436.6 | 501.7 |
| 130° | 241.7 | 244.6 | 251.9 | 262.3 | 277.0 | 297.7 | 323.5 | 351.5 | 388.3 | 435.5 | 492.9 |
| 132.5° | 248.7 | 252.3 | 260.2 | 271.2 | 286.4 | 307.1 | 331.7 | 359.1 | 393.0 | 434.9 | 485.9 |
| 135° | 259.4 | 262.3 | 271.2 | 282.2 | 299.2 | 319.8 | 343.4 | 369.1 | 398.6 | 433.9 | 476.0 |
| 137.5° | 269.4 | 272.9 | 281.7 | 293.5 | 310.4 | 329.5 | 352.8 | 376.8 | 403.6 | 433.9 | 469.0 |
| 140° | 277.0 | 279.9 | 288.8 | 300.6 | 316.8 | 336.0 | 358.1 | 380.9 | 406.0 | 433.2 | 465.0 |
| 142.5° | 284.6 | 287.1 | 295.3 | 307.1 | 322.7 | 340.7 | 362.2 | 384.5 | 407.7 | 433.2 | 460.8 |
| 145° | 296.1 | 299.2 | 306.5 | 317.5 | 332.2 | 348.5 | 368.4 | 389.0 | 409.6 | 431.8 | 455.3 |
| 147.5° | 308.6 | 310.8 | 317.8 | 328.0 | 340.3 | 354.7 | 373.4 | 391.5 | 410.3 | 429.1 | 449.8 |
| 150° | 316.8 | 319.1 | 324.9 | 334.5 | 345.5 | 358.8 | 375.8 | 392.7 | 409.6 | 427.3 | 445.0 |
| 152.5° | 325.1 | 326.1 | 332.0 | 340.4 | 350.8 | 363.0 | 378.1 | 393.3 | 408.5 | 424.4 | 440.9 |
| 155° | 336.7 | 337.4 | 341.9 | 350.0 | 358.1 | 369.1 | 381.6 | 394.2 | 406.7 | 419.2 | 433.2 |
| 157.5° | 346.5 | 347.1 | 350.7 | 357.8 | 364.3 | 373.5 | 384.2 | 394.2 | 403.3 | 414.0 | 426.0 |
| 160° | 352.9 | 353.6 | 356.6 | 362.5 | 368.4 | 376.5 | 385.3 | 394.2 | 401.5 | 410.4 | 420.8 |
| 162.5° | 359.4 | 358.9 | 361.9 | 366.6 | 371.9 | 378.2 | 386.0 | 393.6 | 399.8 | 407.5 | 415.9 |
| 165° | 366.9 | 366.2 | 367.7 | 372.1 | 375.8 | 380.2 | 386.8 | 392.0 | 396.4 | 401.5 | 408.2 |
| 167.5° | 373.2 | 372.2 | 373.5 | 376.4 | 379.0 | 381.8 | 386.6 | 391.0 | 393.0 | 396.4 | 400.5 |
| 170° | 377.2 | 375.8 | 376.5 | 378.7 | 380.2 | 382.4 | 386.1 | 389.7 | 391.2 | 393.4 | 396.4 |
| 172.5° | 379.6 | 378.7 | 378.2 | 380.5 | 381.4 | 383.0 | 385.5 | 388.0 | 388.9 | 389.9 | 392.3 |
| 175° | 382.4 | 381.6 | 380.9 | 382.4 | 382.4 | 383.1 | 384.6 | 386.1 | 385.3 | 386.1 | 386.8 |
| 177.5° | 383.7 | 382.6 | 381.9 | 383.1 | 383.1 | 383.1 | 383.7 | 384.9 | 383.7 | 383.1 | 383.7 |
| 180° | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 |



TEST NUMBER: P331401-830

CATALOG NUMBER: S122DIP-S865D725U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 |
| 2.5° | 1295.1 | 1297.4 | 1299.6 | 1300.5 | 1300.0 | 1299.6 | 1299.2 | 1298.7 |
| 5° | 1286.4 | 1288.6 | 1290.9 | 1291.7 | 1291.2 | 1290.6 | 1290.1 | 1289.5 |
| 7.5° | 1271.9 | 1274.1 | 1276.4 | 1277.1 | 1276.6 | 1275.9 | 1275.4 | 1274.7 |
| 10° | 1258.9 | 1261.1 | 1263.4 | 1264.0 | 1263.2 | 1262.3 | 1261.5 | 1260.7 |
| 12.5° | 1243.6 | 1245.1 | 1246.7 | 1247.2 | 1246.5 | 1245.9 | 1245.3 | 1244.7 |
| 15° | 1216.6 | 1217.8 | 1218.9 | 1218.7 | 1217.4 | 1216.0 | 1214.6 | 1213.1 |
| 17.5° | 1184.7 | 1186.0 | 1187.3 | 1187.2 | 1185.9 | 1184.6 | 1183.3 | 1181.9 |
| 20° | 1159.8 | 1160.6 | 1161.5 | 1161.3 | 1160.3 | 1159.1 | 1158.0 | 1156.9 |
| 22.5° | 1133.5 | 1133.6 | 1133.8 | 1133.6 | 1132.8 | 1132.2 | 1131.5 | 1130.9 |
| 25° | 1090.5 | 1091.0 | 1091.6 | 1091.6 | 1091.0 | 1090.5 | 1090.0 | 1089.4 |
| 27.5° | 1048.2 | 1047.4 | 1046.5 | 1045.5 | 1044.1 | 1042.7 | 1041.4 | 1040.1 |
| 30° | 1015.1 | 1014.4 | 1013.5 | 1012.5 | 1011.4 | 1010.3 | 1009.2 | 1008.0 |
| 32.5° | 982.8 | 981.3 | 979.8 | 978.5 | 977.4 | 976.3 | 975.2 | 974.0 |
| 35° | 930.9 | 929.3 | 927.7 | 926.0 | 924.7 | 923.3 | 921.9 | 920.5 |
| 37.5° | 878.9 | 876.8 | 874.8 | 873.1 | 871.8 | 870.4 | 869.1 | 867.7 |
| 40° | 843.0 | 840.5 | 838.0 | 836.1 | 835.1 | 834.0 | 832.8 | 831.7 |
| 42.5° | 807.5 | 804.7 | 802.1 | 799.9 | 798.3 | 796.8 | 795.2 | 793.7 |
| 45° | 753.1 | 750.0 | 747.0 | 744.9 | 743.8 | 742.6 | 741.5 | 740.5 |
| 47.5° | 696.4 | 693.2 | 690.0 | 687.6 | 686.0 | 684.4 | 682.8 | 681.2 |
| 50° | 660.1 | 656.2 | 652.3 | 649.7 | 648.3 | 646.9 | 645.5 | 644.1 |
| 52.5° | 622.4 | 619.2 | 616.0 | 613.4 | 611.6 | 609.7 | 607.9 | 606.1 |
| 55° | 566.2 | 562.8 | 559.5 | 557.1 | 555.7 | 554.3 | 553.0 | 551.6 |
| 57.5° | 507.7 | 504.4 | 501.1 | 499.0 | 497.9 | 496.9 | 495.9 | 494.7 |
| 60° | 469.2 | 466.1 | 463.1 | 461.1 | 460.2 | 459.4 | 458.5 | 457.8 |
| 62.5° | 432.5 | 429.7 | 426.9 | 425.0 | 423.9 | 422.8 | 421.8 | 420.8 |
| 65° | 376.5 | 374.0 | 371.5 | 369.5 | 368.2 | 366.7 | 365.3 | 363.9 |
| 67.5° | 321.0 | 319.1 | 317.2 | 315.7 | 314.5 | 313.4 | 312.3 | 311.1 |
| 70° | 285.0 | 283.0 | 281.2 | 279.6 | 278.5 | 277.4 | 276.3 | 275.1 |
| 72.5° | 251.0 | 249.0 | 247.1 | 245.7 | 244.8 | 243.9 | 243.0 | 242.1 |
| 75° | 198.0 | 196.3 | 194.7 | 194.2 | 194.7 | 195.3 | 195.8 | 196.3 |
| 77.5° | 150.7 | 149.9 | 149.0 | 148.2 | 147.4 | 146.7 | 145.9 | 145.1 |
| 80° | 119.6 | 118.9 | 118.0 | 117.3 | 116.7 | 116.2 | 115.6 | 115.1 |
| 82.5° | 89.2 | 88.1 | 87.1 | 86.5 | 86.3 | 86.2 | 86.1 | 86.1 |
| 85° | 47.1 | 46.3 | 45.4 | 44.9 | 44.6 | 44.3 | 44.0 | 43.7 |
| 87.5° | 17.3 | 16.4 | 16.0 | 15.7 | 15.6 | 15.3 | 15.1 | 14.9 |
| 90° | 23.6 | 22.1 | 23.6 | 24.3 | 24.3 | 24.3 | 24.3 | 24.3 |
| 92.5° | 64.3 | 55.1 | 48.9 | 44.4 | 43.7 | 41.4 | 42.0 | 40.8 |
| 95° | 193.0 | 148.1 | 117.2 | 100.9 | 91.3 | 85.5 | 83.2 | 84.0 |
| 97.5° | 450.4 | 368.5 | 288.8 | 235.6 | 200.4 | 182.3 | 171.5 | 165.3 |
| 100° | 672.7 | 581.4 | 480.4 | 391.2 | 330.1 | 298.4 | 277.0 | 263.7 |
| 102.5° | 818.3 | 797.7 | 723.8 | 629.3 | 562.9 | 508.8 | 482.1 | 464.2 |
| 105° | 895.2 | 978.5 | 988.1 | 963.7 | 918.0 | 872.3 | 840.7 | 830.4 |
| 107.5° | 839.8 | 965.2 | 1041.8 | 1077.5 | 1083.3 | 1080.7 | 1074.4 | 1060.6 |
| 110° | 792.0 | 924.0 | 1018.2 | 1078.6 | 1110.3 | 1124.4 | 1131.0 | 1130.2 |



TEST NUMBER: P331401-830

CATALOG NUMBER: S122DIP-S865D725U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 748.5 | 875.0 | 975.8 | 1045.1 | 1089.1 | 1112.6 | 1125.1 | 1129.1 |
| 115° | 694.7 | 808.2 | 904.7 | 980.6 | 1032.9 | 1066.9 | 1086.0 | 1092.7 |
| 117.5° | 654.4 | 754.0 | 841.6 | 912.8 | 966.1 | 1001.9 | 1022.1 | 1027.7 |
| 120° | 634.3 | 725.8 | 803.8 | 870.9 | 922.5 | 957.1 | 978.5 | 985.8 |
| 122.5° | 618.5 | 702.2 | 776.1 | 836.7 | 883.0 | 917.0 | 936.0 | 942.2 |
| 125° | 595.3 | 671.2 | 736.0 | 791.3 | 834.1 | 862.0 | 880.4 | 886.4 |
| 127.5° | 572.5 | 641.1 | 702.3 | 753.3 | 790.6 | 816.8 | 832.7 | 837.4 |
| 130° | 557.7 | 621.1 | 679.3 | 727.9 | 764.0 | 789.1 | 803.8 | 809.7 |
| 132.5° | 543.6 | 602.3 | 655.7 | 701.4 | 737.0 | 762.0 | 775.5 | 780.8 |
| 135° | 523.9 | 572.5 | 621.1 | 662.3 | 694.1 | 718.4 | 731.6 | 734.6 |
| 137.5° | 508.1 | 548.7 | 587.4 | 623.3 | 652.2 | 673.2 | 684.8 | 689.2 |
| 140° | 498.0 | 533.5 | 567.3 | 599.7 | 623.3 | 642.4 | 653.6 | 658.0 |
| 142.5° | 489.8 | 519.9 | 549.0 | 576.2 | 598.6 | 616.0 | 625.8 | 626.7 |
| 145° | 478.2 | 502.5 | 525.4 | 546.7 | 564.4 | 576.9 | 584.3 | 586.4 |
| 147.5° | 469.2 | 488.3 | 506.1 | 521.8 | 536.4 | 546.4 | 551.4 | 552.7 |
| 150° | 462.7 | 478.9 | 494.4 | 507.7 | 518.7 | 527.5 | 532.0 | 532.7 |
| 152.5° | 456.2 | 471.3 | 484.4 | 495.9 | 504.5 | 512.2 | 515.5 | 515.6 |
| 155° | 447.2 | 459.0 | 470.0 | 478.2 | 486.3 | 491.4 | 494.4 | 492.9 |
| 157.5° | 436.8 | 446.7 | 455.9 | 462.2 | 468.0 | 472.3 | 473.6 | 473.6 |
| 160° | 430.3 | 438.4 | 446.5 | 451.7 | 456.9 | 460.5 | 461.2 | 461.2 |
| 162.5° | 423.8 | 430.7 | 437.6 | 441.7 | 446.8 | 449.3 | 450.1 | 449.4 |
| 165° | 414.1 | 419.2 | 424.4 | 427.3 | 430.3 | 433.2 | 433.2 | 432.5 |
| 167.5° | 404.8 | 408.8 | 412.3 | 415.0 | 416.3 | 417.9 | 417.7 | 416.9 |
| 170° | 400.1 | 402.3 | 405.2 | 406.7 | 407.5 | 409.6 | 408.9 | 407.5 |
| 172.5° | 394.7 | 396.4 | 398.8 | 399.6 | 400.4 | 401.4 | 400.7 | 399.8 |
| 175° | 389.0 | 389.7 | 390.5 | 391.2 | 391.2 | 392.0 | 391.2 | 389.7 |
| 177.5° | 384.9 | 384.9 | 385.5 | 385.5 | 385.5 | 385.5 | 384.9 | 383.7 |
| 180° | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 |

(END OF REPORT)