

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: P331446-940

Luminaire Tested: **SA2XXDIP-C1005D725U940-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331446-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D725U940-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

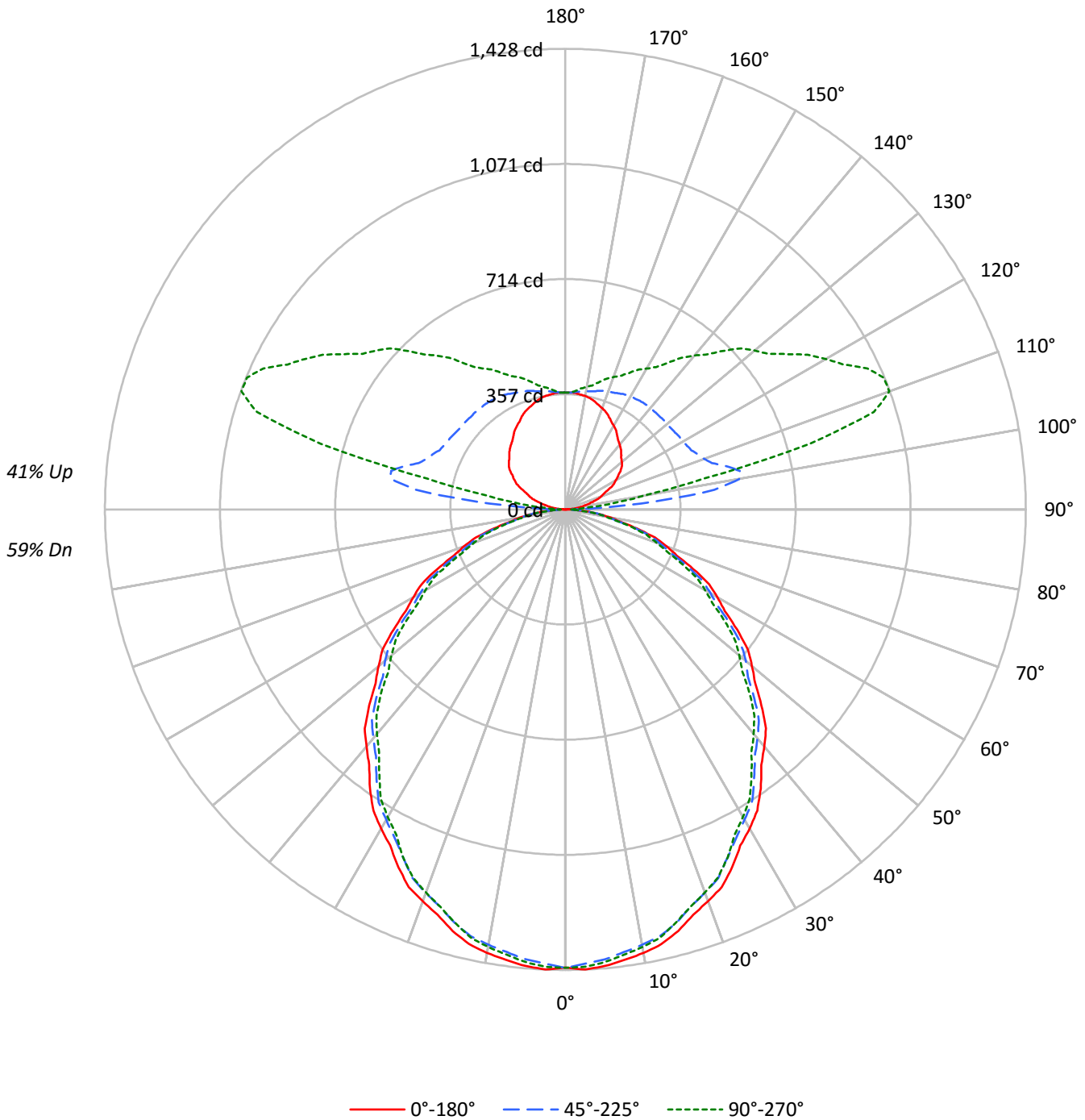
Lumens per Lamp: N/A
Luminaire Lumens: 6141.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.7
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: P331446-940
CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331446-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 |
| 1 | 100 | 95 | 91 | 88 | 93 | 89 | 86 | 83 | 77 | 75 | 73 | 67 | 65 | 63 | 57 | 56 | 54 | 50 |
| 2 | 91 | 83 | 77 | 72 | 85 | 78 | 72 | 68 | 68 | 64 | 60 | 59 | 56 | 53 | 50 | 48 | 46 | 42 |
| 3 | 83 | 73 | 66 | 60 | 77 | 69 | 62 | 57 | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 41 | 39 | 35 |
| 4 | 76 | 65 | 57 | 51 | 71 | 61 | 54 | 48 | 53 | 48 | 43 | 46 | 42 | 38 | 40 | 36 | 34 | 30 |
| 5 | 70 | 58 | 50 | 44 | 65 | 54 | 47 | 41 | 48 | 42 | 37 | 42 | 37 | 33 | 36 | 32 | 29 | 26 |
| 6 | 64 | 52 | 44 | 38 | 60 | 49 | 41 | 36 | 43 | 37 | 33 | 38 | 33 | 29 | 32 | 29 | 26 | 23 |
| 7 | 59 | 47 | 39 | 33 | 55 | 44 | 37 | 32 | 39 | 33 | 29 | 34 | 29 | 26 | 30 | 26 | 23 | 20 |
| 8 | 55 | 43 | 35 | 29 | 51 | 40 | 33 | 28 | 36 | 30 | 26 | 31 | 27 | 23 | 27 | 23 | 21 | 18 |
| 9 | 51 | 39 | 31 | 26 | 48 | 37 | 30 | 25 | 33 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 19 | 17 |
| 10 | 48 | 36 | 29 | 24 | 45 | 34 | 27 | 23 | 30 | 25 | 21 | 27 | 22 | 19 | 23 | 20 | 17 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22946 | 22946 | 22946 |
| 5° | 23034 | 22702 | 22835 |
| 10° | 22897 | 22471 | 22584 |
| 15° | 22614 | 22181 | 22158 |
| 20° | 22213 | 21742 | 21720 |
| 25° | 21814 | 21205 | 21205 |
| 30° | 21300 | 20713 | 20534 |
| 35° | 20820 | 20120 | 19825 |
| 40° | 20219 | 19530 | 19153 |
| 45° | 19628 | 18941 | 18472 |
| 50° | 18982 | 18331 | 17678 |
| 55° | 18311 | 17619 | 16963 |
| 60° | 17563 | 16769 | 16152 |
| 65° | 16756 | 15924 | 15194 |
| 70° | 15739 | 14903 | 14195 |
| 75° | 14323 | 13724 | 13381 |
| 80° | 12710 | 12329 | 11688 |
| 85° | 10374 | 9874 | 8855 |



TEST NUMBER: P331446-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 133.6 | 2.2 |
| 10°-20° | 376.0 | 6.1 |
| 20°-30° | 552.7 | 9.0 |
| 30°-40° | 642.0 | 10.5 |
| 40°-50° | 641.3 | 10.4 |
| 50°-60° | 559.3 | 9.1 |
| 60°-70° | 413.6 | 6.7 |
| 70°-80° | 234.2 | 3.8 |
| 80°-90° | 66.3 | 1.1 |
| 90°-100° | 144.9 | 2.4 |
| 100°-110° | 491.8 | 8.0 |
| 110°-120° | 522.5 | 8.5 |
| 120°-130° | 430.1 | 7.0 |
| 130°-140° | 345.4 | 5.6 |
| 140°-150° | 261.0 | 4.3 |
| 150°-160° | 183.4 | 3.0 |
| 160°-170° | 108.0 | 1.8 |
| 170°-180° | 35.1 | 0.6 |
| 0°-30° | 1062.4 | 17.3 |
| 0°-40° | 1704.4 | 27.8 |
| 0°-60° | 2905.1 | 47.3 |
| 0°-90° | 3619.1 | 58.9 |
| 90°-120° | 1159.2 | 18.9 |
| 90°-150° | 2195.7 | 35.8 |
| 90°-180° | 2522.0 | 41.1 |
| 0°-180° | 6141.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1421 | 1421 | 1421 | 1421 | 1421 | |
| 5° | 1421 | 1415 | 1401 | 1411 | 1409 | 135 |
| 15° | 1353 | 1344 | 1327 | 1332 | 1326 | 381 |
| 25° | 1224 | 1213 | 1190 | 1193 | 1190 | 563 |
| 35° | 1056 | 1042 | 1021 | 1013 | 1006 | 659 |
| 45° | 860 | 849 | 830 | 815 | 809 | 663 |
| 55° | 650 | 642 | 626 | 610 | 603 | 581 |
| 65° | 439 | 430 | 417 | 405 | 398 | 434 |
| 75° | 230 | 227 | 220 | 212 | 214 | 245 |
| 85° | 56 | 55 | 53 | 49 | 48 | 64 |
| 90° | 1 | 9 | 24 | 23 | 23 | 4 |
| 95° | 24 | 60 | 273 | 103 | 80 | 26 |
| 105° | 85 | 128 | 516 | 923 | 786 | 90 |
| 115° | 150 | 189 | 432 | 892 | 1034 | 149 |
| 125° | 209 | 247 | 415 | 722 | 839 | 186 |
| 135° | 245 | 293 | 410 | 607 | 695 | 190 |
| 145° | 280 | 322 | 408 | 507 | 555 | 176 |
| 155° | 318 | 344 | 397 | 449 | 466 | 147 |
| 165° | 347 | 358 | 380 | 403 | 409 | 98 |
| 175° | 362 | 362 | 365 | 370 | 369 | 34 |
| 180° | 362 | 362 | 362 | 362 | 362 | |



TEST NUMBER: P331446-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 |
| 2.5° | 1427.8 | 1426.6 | 1425.4 | 1424.2 | 1422.9 | 1421.0 | 1418.4 | 1415.7 | 1413.0 | 1410.3 | 1412.7 |
| 5° | 1421.2 | 1420.0 | 1418.8 | 1417.6 | 1416.4 | 1414.1 | 1410.8 | 1407.4 | 1404.1 | 1400.7 | 1403.2 |
| 7.5° | 1408.6 | 1406.8 | 1404.9 | 1403.0 | 1401.1 | 1398.5 | 1395.1 | 1391.7 | 1388.3 | 1384.9 | 1387.3 |
| 10° | 1396.6 | 1394.5 | 1392.4 | 1390.3 | 1388.1 | 1385.3 | 1381.6 | 1378.0 | 1374.3 | 1370.6 | 1373.1 |
| 12.5° | 1380.3 | 1378.3 | 1376.4 | 1374.6 | 1372.7 | 1369.9 | 1366.3 | 1362.6 | 1359.1 | 1355.4 | 1357.1 |
| 15° | 1352.9 | 1351.1 | 1349.2 | 1347.5 | 1345.6 | 1342.7 | 1338.8 | 1334.8 | 1330.9 | 1327.0 | 1328.2 |
| 17.5° | 1317.9 | 1316.1 | 1314.3 | 1312.4 | 1310.6 | 1307.7 | 1303.7 | 1299.7 | 1295.7 | 1291.7 | 1293.1 |
| 20° | 1292.8 | 1290.9 | 1289.1 | 1287.3 | 1285.5 | 1282.5 | 1278.2 | 1274.0 | 1269.7 | 1265.4 | 1266.3 |
| 22.5° | 1267.7 | 1265.1 | 1262.6 | 1260.0 | 1257.4 | 1254.2 | 1250.2 | 1246.2 | 1242.2 | 1238.1 | 1238.3 |
| 25° | 1224.5 | 1222.0 | 1219.6 | 1217.2 | 1214.8 | 1210.9 | 1205.8 | 1200.6 | 1195.4 | 1190.3 | 1190.9 |
| 27.5° | 1175.3 | 1173.0 | 1170.9 | 1168.7 | 1166.5 | 1163.4 | 1159.3 | 1155.2 | 1151.2 | 1147.1 | 1146.2 |
| 30° | 1142.5 | 1140.1 | 1137.6 | 1135.1 | 1132.7 | 1129.3 | 1124.7 | 1120.2 | 1115.6 | 1111.0 | 1110.1 |
| 32.5° | 1107.5 | 1105.5 | 1103.6 | 1101.6 | 1099.7 | 1096.4 | 1091.5 | 1086.7 | 1081.9 | 1077.1 | 1075.5 |
| 35° | 1056.3 | 1053.3 | 1050.3 | 1047.2 | 1044.2 | 1040.3 | 1035.4 | 1030.6 | 1025.7 | 1020.8 | 1019.0 |
| 37.5° | 998.7 | 996.0 | 993.4 | 990.7 | 988.0 | 984.3 | 979.4 | 974.6 | 969.6 | 964.8 | 962.5 |
| 40° | 959.3 | 956.9 | 954.5 | 952.1 | 949.6 | 946.0 | 941.1 | 936.3 | 931.4 | 926.6 | 923.8 |
| 42.5° | 921.0 | 918.6 | 916.2 | 913.8 | 911.3 | 907.7 | 902.9 | 898.0 | 893.1 | 888.2 | 885.3 |
| 45° | 859.6 | 857.5 | 855.3 | 853.2 | 851.0 | 847.7 | 843.2 | 838.7 | 834.1 | 829.5 | 826.2 |
| 47.5° | 798.3 | 796.4 | 794.3 | 792.4 | 790.3 | 786.9 | 782.2 | 777.5 | 772.8 | 768.0 | 764.5 |
| 50° | 755.7 | 754.2 | 752.7 | 751.2 | 749.7 | 746.7 | 742.5 | 738.2 | 734.0 | 729.8 | 725.5 |
| 52.5° | 714.2 | 712.2 | 710.2 | 708.2 | 706.1 | 703.1 | 699.1 | 695.1 | 691.2 | 687.2 | 683.6 |
| 55° | 650.5 | 648.6 | 646.8 | 645.1 | 643.2 | 640.4 | 636.9 | 633.2 | 629.5 | 625.9 | 622.2 |
| 57.5° | 586.6 | 585.1 | 583.6 | 582.2 | 580.7 | 578.0 | 574.0 | 570.0 | 566.0 | 562.0 | 558.4 |
| 60° | 543.9 | 542.7 | 541.4 | 540.3 | 539.0 | 536.3 | 532.1 | 527.8 | 523.5 | 519.3 | 515.9 |
| 62.5° | 502.4 | 500.4 | 498.5 | 496.5 | 494.5 | 492.0 | 488.7 | 485.4 | 482.1 | 478.8 | 475.7 |
| 65° | 438.6 | 436.8 | 435.1 | 433.2 | 431.4 | 428.9 | 425.9 | 422.8 | 419.8 | 416.8 | 414.1 |
| 67.5° | 373.9 | 372.5 | 371.0 | 369.5 | 368.1 | 366.0 | 363.2 | 360.5 | 357.8 | 355.1 | 352.9 |
| 70° | 333.4 | 332.3 | 331.0 | 329.8 | 328.6 | 326.6 | 323.9 | 321.1 | 318.4 | 315.7 | 313.5 |
| 72.5° | 291.9 | 290.7 | 289.4 | 288.3 | 287.0 | 285.5 | 283.8 | 282.0 | 280.3 | 278.5 | 276.3 |
| 75° | 229.6 | 229.0 | 228.4 | 227.7 | 227.1 | 226.0 | 224.5 | 223.0 | 221.5 | 220.0 | 218.2 |
| 77.5° | 173.8 | 172.8 | 171.7 | 170.8 | 169.7 | 168.9 | 168.3 | 167.6 | 167.0 | 166.5 | 165.5 |
| 80° | 136.7 | 136.3 | 136.1 | 135.7 | 135.5 | 135.0 | 134.4 | 133.8 | 133.1 | 132.6 | 131.6 |
| 82.5° | 101.7 | 101.7 | 101.6 | 101.5 | 101.4 | 101.2 | 100.9 | 100.5 | 100.1 | 99.8 | 98.6 |
| 85° | 56.0 | 55.7 | 55.5 | 55.1 | 54.8 | 54.5 | 54.2 | 53.9 | 53.6 | 53.3 | 52.3 |
| 87.5° | 19.8 | 19.7 | 19.8 | 19.6 | 19.4 | 19.4 | 19.5 | 20.1 | 20.4 | 20.1 | 19.2 |
| 90° | 0.7 | 2.8 | 5.6 | 7.0 | 8.4 | 10.4 | 13.9 | 18.8 | 23.0 | 23.7 | 23.0 |
| 92.5° | 8.5 | 12.3 | 17.3 | 20.3 | 25.1 | 31.7 | 47.4 | 69.6 | 89.3 | 90.6 | 76.5 |
| 95° | 24.4 | 27.2 | 34.2 | 40.4 | 51.5 | 68.3 | 100.4 | 161.0 | 241.9 | 273.2 | 239.1 |
| 97.5° | 39.8 | 43.5 | 50.9 | 60.4 | 73.2 | 92.1 | 132.4 | 217.0 | 351.3 | 466.5 | 489.4 |
| 100° | 53.7 | 55.7 | 62.1 | 73.2 | 87.1 | 106.6 | 143.6 | 228.6 | 379.2 | 550.6 | 651.0 |
| 102.5° | 66.5 | 68.0 | 74.3 | 85.4 | 100.0 | 119.5 | 153.6 | 229.2 | 368.6 | 553.5 | 711.2 |
| 105° | 85.1 | 87.8 | 92.7 | 103.2 | 118.5 | 138.0 | 170.8 | 232.8 | 347.9 | 516.5 | 702.0 |
| 107.5° | 105.1 | 107.4 | 112.1 | 121.7 | 136.9 | 156.6 | 188.3 | 242.5 | 337.5 | 476.9 | 640.7 |
| 110° | 118.5 | 121.3 | 125.5 | 134.6 | 149.2 | 169.4 | 200.0 | 250.2 | 335.3 | 458.0 | 602.3 |



TEST NUMBER: P331446-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 130.7 | 133.6 | 138.3 | 146.8 | 160.9 | 181.6 | 211.2 | 258.6 | 335.8 | 445.7 | 575.5 |
| 115° | 149.9 | 153.4 | 157.6 | 165.9 | 179.9 | 198.7 | 228.6 | 271.2 | 338.8 | 432.2 | 542.3 |
| 117.5° | 169.7 | 172.5 | 176.6 | 184.0 | 197.4 | 217.0 | 244.7 | 284.5 | 343.8 | 425.6 | 521.4 |
| 120° | 181.9 | 184.8 | 188.9 | 195.2 | 209.1 | 228.6 | 255.8 | 293.5 | 347.1 | 421.7 | 510.2 |
| 122.5° | 193.7 | 195.9 | 200.0 | 206.9 | 220.8 | 240.9 | 266.4 | 301.3 | 351.1 | 419.5 | 500.8 |
| 125° | 209.1 | 211.2 | 215.3 | 223.7 | 237.7 | 257.2 | 282.3 | 313.7 | 356.9 | 415.4 | 487.2 |
| 127.5° | 221.4 | 224.2 | 230.1 | 239.2 | 252.6 | 272.7 | 297.1 | 325.2 | 362.9 | 413.0 | 474.7 |
| 130° | 228.6 | 231.4 | 238.4 | 248.2 | 262.1 | 281.6 | 306.0 | 332.5 | 367.4 | 412.0 | 466.4 |
| 132.5° | 235.3 | 238.7 | 246.2 | 256.5 | 271.0 | 290.5 | 313.8 | 339.7 | 371.8 | 411.4 | 459.7 |
| 135° | 245.4 | 248.2 | 256.5 | 267.0 | 283.0 | 302.6 | 324.9 | 349.2 | 377.1 | 410.5 | 450.3 |
| 137.5° | 254.9 | 258.2 | 266.5 | 277.7 | 293.6 | 311.7 | 333.8 | 356.5 | 381.8 | 410.5 | 443.7 |
| 140° | 262.1 | 264.8 | 273.2 | 284.4 | 299.7 | 317.9 | 338.8 | 360.3 | 384.1 | 409.8 | 439.9 |
| 142.5° | 269.3 | 271.6 | 279.4 | 290.5 | 305.3 | 322.4 | 342.7 | 363.7 | 385.8 | 409.8 | 436.0 |
| 145° | 280.2 | 283.0 | 290.0 | 300.4 | 314.3 | 329.7 | 348.6 | 368.0 | 387.5 | 408.5 | 430.8 |
| 147.5° | 291.9 | 294.0 | 300.7 | 310.3 | 321.9 | 335.6 | 353.3 | 370.4 | 388.2 | 406.0 | 425.5 |
| 150° | 299.7 | 301.8 | 307.4 | 316.5 | 326.9 | 339.5 | 355.5 | 371.5 | 387.5 | 404.3 | 421.0 |
| 152.5° | 307.6 | 308.5 | 314.1 | 322.0 | 331.9 | 343.4 | 357.8 | 372.1 | 386.5 | 401.5 | 417.1 |
| 155° | 318.5 | 319.2 | 323.4 | 331.1 | 338.8 | 349.2 | 361.1 | 372.9 | 384.8 | 396.6 | 409.8 |
| 157.5° | 327.8 | 328.4 | 331.8 | 338.5 | 344.6 | 353.4 | 363.5 | 372.9 | 381.6 | 391.6 | 403.1 |
| 160° | 333.9 | 334.6 | 337.3 | 343.0 | 348.6 | 356.1 | 364.5 | 372.9 | 379.9 | 388.3 | 398.1 |
| 162.5° | 340.0 | 339.6 | 342.4 | 346.9 | 351.9 | 357.8 | 365.2 | 372.4 | 378.3 | 385.5 | 393.5 |
| 165° | 347.1 | 346.4 | 347.9 | 352.0 | 355.5 | 359.7 | 366.0 | 370.9 | 375.1 | 379.9 | 386.2 |
| 167.5° | 353.0 | 352.1 | 353.4 | 356.1 | 358.6 | 361.2 | 365.8 | 369.9 | 371.8 | 375.1 | 378.9 |
| 170° | 356.9 | 355.5 | 356.1 | 358.3 | 359.7 | 361.8 | 365.2 | 368.7 | 370.1 | 372.2 | 375.1 |
| 172.5° | 359.1 | 358.3 | 357.8 | 360.0 | 360.8 | 362.3 | 364.7 | 367.0 | 367.9 | 368.9 | 371.1 |
| 175° | 361.8 | 361.1 | 360.3 | 361.8 | 361.8 | 362.5 | 363.8 | 365.2 | 364.5 | 365.2 | 366.0 |
| 177.5° | 363.0 | 361.9 | 361.3 | 362.5 | 362.5 | 362.5 | 363.0 | 364.2 | 363.0 | 362.5 | 363.0 |
| 180° | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 |



TEST NUMBER: P331446-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 |
| 2.5° | 1415.1 | 1417.6 | 1420.0 | 1421.0 | 1420.5 | 1420.0 | 1419.5 | 1419.1 |
| 5° | 1405.6 | 1408.0 | 1410.4 | 1411.4 | 1410.8 | 1410.2 | 1409.5 | 1408.9 |
| 7.5° | 1389.7 | 1392.1 | 1394.6 | 1395.5 | 1394.8 | 1394.2 | 1393.5 | 1392.9 |
| 10° | 1375.6 | 1378.0 | 1380.4 | 1381.2 | 1380.3 | 1379.3 | 1378.4 | 1377.5 |
| 12.5° | 1358.8 | 1360.5 | 1362.2 | 1362.7 | 1362.0 | 1361.4 | 1360.7 | 1360.0 |
| 15° | 1329.4 | 1330.6 | 1331.8 | 1331.7 | 1330.2 | 1328.6 | 1327.1 | 1325.6 |
| 17.5° | 1294.5 | 1295.9 | 1297.3 | 1297.3 | 1295.7 | 1294.3 | 1292.9 | 1291.4 |
| 20° | 1267.3 | 1268.2 | 1269.1 | 1268.9 | 1267.7 | 1266.5 | 1265.3 | 1264.1 |
| 22.5° | 1238.5 | 1238.7 | 1238.9 | 1238.6 | 1237.9 | 1237.2 | 1236.4 | 1235.6 |
| 25° | 1191.5 | 1192.1 | 1192.8 | 1192.8 | 1192.1 | 1191.5 | 1190.9 | 1190.3 |
| 27.5° | 1145.3 | 1144.3 | 1143.4 | 1142.3 | 1140.9 | 1139.3 | 1137.9 | 1136.5 |
| 30° | 1109.2 | 1108.3 | 1107.4 | 1106.3 | 1105.1 | 1103.8 | 1102.7 | 1101.4 |
| 32.5° | 1073.9 | 1072.2 | 1070.6 | 1069.2 | 1067.9 | 1066.8 | 1065.5 | 1064.3 |
| 35° | 1017.2 | 1015.4 | 1013.5 | 1011.9 | 1010.4 | 1008.9 | 1007.3 | 1005.8 |
| 37.5° | 960.3 | 958.1 | 955.8 | 954.0 | 952.5 | 951.0 | 949.6 | 948.2 |
| 40° | 921.0 | 918.4 | 915.6 | 913.6 | 912.4 | 911.2 | 910.0 | 908.7 |
| 42.5° | 882.3 | 879.3 | 876.4 | 874.1 | 872.4 | 870.7 | 869.0 | 867.2 |
| 45° | 822.9 | 819.5 | 816.2 | 813.9 | 812.6 | 811.5 | 810.2 | 809.0 |
| 47.5° | 761.0 | 757.4 | 753.9 | 751.3 | 749.5 | 747.8 | 746.0 | 744.2 |
| 50° | 721.2 | 717.0 | 712.7 | 709.9 | 708.4 | 706.9 | 705.3 | 703.8 |
| 52.5° | 680.1 | 676.5 | 673.1 | 670.3 | 668.2 | 666.3 | 664.2 | 662.3 |
| 55° | 618.6 | 614.9 | 611.4 | 608.8 | 607.3 | 605.7 | 604.2 | 602.6 |
| 57.5° | 554.7 | 551.2 | 547.6 | 545.2 | 544.1 | 543.0 | 541.8 | 540.6 |
| 60° | 512.6 | 509.3 | 506.0 | 503.8 | 502.9 | 502.0 | 501.1 | 500.2 |
| 62.5° | 472.7 | 469.6 | 466.5 | 464.3 | 463.2 | 462.0 | 460.8 | 459.7 |
| 65° | 411.3 | 408.6 | 405.9 | 403.8 | 402.3 | 400.7 | 399.2 | 397.7 |
| 67.5° | 350.8 | 348.7 | 346.5 | 344.8 | 343.7 | 342.4 | 341.3 | 340.0 |
| 70° | 311.4 | 309.3 | 307.2 | 305.5 | 304.3 | 303.1 | 301.8 | 300.7 |
| 72.5° | 274.3 | 272.2 | 270.0 | 268.5 | 267.5 | 266.5 | 265.6 | 264.6 |
| 75° | 216.4 | 214.5 | 212.8 | 212.1 | 212.8 | 213.3 | 213.9 | 214.5 |
| 77.5° | 164.6 | 163.7 | 162.8 | 161.9 | 161.0 | 160.2 | 159.3 | 158.5 |
| 80° | 130.7 | 129.8 | 128.9 | 128.1 | 127.5 | 127.0 | 126.4 | 125.7 |
| 82.5° | 97.5 | 96.3 | 95.1 | 94.5 | 94.3 | 94.3 | 94.2 | 94.0 |
| 85° | 51.5 | 50.6 | 49.7 | 49.0 | 48.8 | 48.4 | 48.2 | 47.8 |
| 87.5° | 18.3 | 17.3 | 16.9 | 16.5 | 16.2 | 16.1 | 15.8 | 15.5 |
| 90° | 22.3 | 21.0 | 22.3 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| 92.5° | 60.8 | 52.2 | 46.3 | 42.0 | 41.4 | 39.1 | 39.8 | 38.6 |
| 95° | 182.6 | 140.1 | 110.8 | 95.5 | 86.4 | 80.9 | 78.7 | 79.5 |
| 97.5° | 426.1 | 348.7 | 273.2 | 222.9 | 189.6 | 172.5 | 162.3 | 156.4 |
| 100° | 636.4 | 550.0 | 454.5 | 370.1 | 312.3 | 282.3 | 262.1 | 249.5 |
| 102.5° | 774.2 | 754.7 | 684.7 | 595.4 | 532.5 | 481.3 | 456.1 | 439.2 |
| 105° | 846.9 | 925.7 | 934.8 | 911.8 | 868.5 | 825.3 | 795.3 | 785.6 |
| 107.5° | 794.5 | 913.1 | 985.6 | 1019.4 | 1024.8 | 1022.4 | 1016.5 | 1003.4 |
| 110° | 749.3 | 874.1 | 963.3 | 1020.5 | 1050.4 | 1063.7 | 1070.0 | 1069.3 |



TEST NUMBER: P331446-940

CATALOG NUMBER: SA2XXDIP-C1005D725U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 708.1 | 827.8 | 923.2 | 988.7 | 1030.4 | 1052.6 | 1064.4 | 1068.2 |
| 115° | 657.3 | 764.6 | 856.0 | 927.7 | 977.2 | 1009.3 | 1027.4 | 1033.8 |
| 117.5° | 619.1 | 713.4 | 796.2 | 863.5 | 914.0 | 947.9 | 967.0 | 972.2 |
| 120° | 600.1 | 686.6 | 760.5 | 823.9 | 872.7 | 905.4 | 925.7 | 932.6 |
| 122.5° | 585.1 | 664.3 | 734.2 | 791.6 | 835.4 | 867.5 | 885.6 | 891.4 |
| 125° | 563.2 | 635.0 | 696.3 | 748.6 | 789.1 | 815.6 | 832.9 | 838.6 |
| 127.5° | 541.6 | 606.5 | 664.4 | 712.7 | 748.0 | 772.8 | 787.8 | 792.3 |
| 130° | 527.6 | 587.6 | 642.7 | 688.7 | 722.8 | 746.5 | 760.5 | 766.1 |
| 132.5° | 514.2 | 569.8 | 620.4 | 663.6 | 697.2 | 720.9 | 733.7 | 738.7 |
| 135° | 495.6 | 541.6 | 587.6 | 626.6 | 656.7 | 679.7 | 692.1 | 695.0 |
| 137.5° | 480.7 | 519.2 | 555.7 | 589.7 | 617.1 | 636.9 | 647.8 | 652.0 |
| 140° | 471.2 | 504.7 | 536.7 | 567.4 | 589.7 | 607.8 | 618.3 | 622.5 |
| 142.5° | 463.4 | 491.9 | 519.4 | 545.1 | 566.3 | 582.7 | 592.1 | 592.9 |
| 145° | 452.4 | 475.4 | 497.0 | 517.2 | 534.0 | 545.8 | 552.8 | 554.8 |
| 147.5° | 443.9 | 462.0 | 478.8 | 493.7 | 507.5 | 516.9 | 521.7 | 522.9 |
| 150° | 437.7 | 453.1 | 467.7 | 480.3 | 490.7 | 499.1 | 503.3 | 504.0 |
| 152.5° | 431.6 | 445.9 | 458.3 | 469.1 | 477.3 | 484.6 | 487.7 | 487.8 |
| 155° | 423.1 | 434.3 | 444.7 | 452.4 | 460.0 | 464.9 | 467.7 | 466.4 |
| 157.5° | 413.2 | 422.6 | 431.3 | 437.3 | 442.7 | 446.8 | 448.1 | 448.1 |
| 160° | 407.1 | 414.7 | 422.4 | 427.3 | 432.2 | 435.7 | 436.3 | 436.3 |
| 162.5° | 400.9 | 407.5 | 414.0 | 417.9 | 422.7 | 425.1 | 425.8 | 425.2 |
| 165° | 391.7 | 396.6 | 401.5 | 404.3 | 407.1 | 409.8 | 409.8 | 409.2 |
| 167.5° | 383.0 | 386.7 | 390.0 | 392.6 | 393.9 | 395.4 | 395.2 | 394.4 |
| 170° | 378.5 | 380.6 | 383.3 | 384.8 | 385.5 | 387.5 | 386.8 | 385.5 |
| 172.5° | 373.4 | 375.1 | 377.3 | 378.1 | 378.8 | 379.8 | 379.1 | 378.3 |
| 175° | 368.0 | 368.7 | 369.4 | 370.1 | 370.1 | 370.9 | 370.1 | 368.7 |
| 177.5° | 364.2 | 364.2 | 364.7 | 364.7 | 364.7 | 364.7 | 364.2 | 363.0 |
| 180° | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 |

(END OF REPORT)