

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: P332058-830

Luminaire Tested: **S123DIP-S1165D585U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332058-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D585U830-4F0-1E-UDD-D1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6468.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

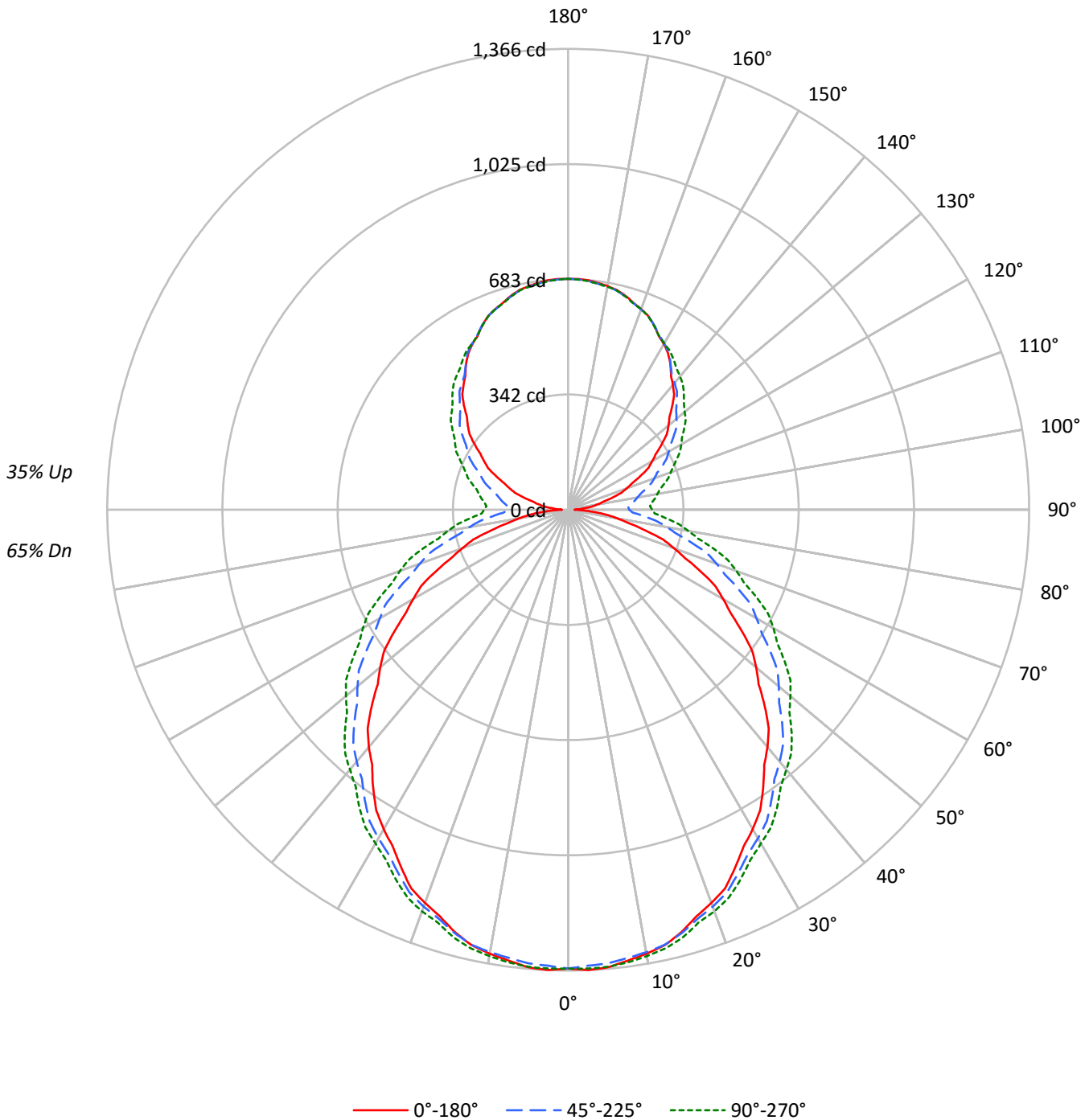
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332058-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332058-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-D1

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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 | 65 |
| 1 | 100 | 95 | 90 | 86 | 93 | 89 | 85 | 81 | 78 | 75 | 72 | 68 | 66 | 64 | 59 | 58 | 56 | 52 |
| 2 | 90 | 82 | 75 | 69 | 84 | 77 | 71 | 66 | 68 | 63 | 59 | 59 | 56 | 52 | 52 | 49 | 46 | 42 |
| 3 | 82 | 72 | 64 | 57 | 77 | 67 | 60 | 54 | 59 | 54 | 49 | 52 | 48 | 44 | 45 | 42 | 39 | 35 |
| 4 | 75 | 63 | 55 | 48 | 70 | 60 | 52 | 46 | 53 | 46 | 41 | 46 | 41 | 37 | 40 | 36 | 33 | 30 |
| 5 | 69 | 56 | 47 | 41 | 64 | 53 | 45 | 39 | 47 | 41 | 36 | 41 | 36 | 32 | 36 | 32 | 29 | 26 |
| 6 | 63 | 50 | 42 | 36 | 59 | 48 | 40 | 34 | 42 | 36 | 31 | 37 | 32 | 28 | 33 | 28 | 25 | 22 |
| 7 | 59 | 45 | 37 | 31 | 55 | 43 | 35 | 30 | 38 | 32 | 27 | 34 | 29 | 25 | 30 | 25 | 22 | 20 |
| 8 | 54 | 41 | 33 | 28 | 51 | 39 | 32 | 26 | 35 | 29 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 18 |
| 9 | 51 | 38 | 30 | 25 | 47 | 36 | 29 | 24 | 32 | 26 | 22 | 29 | 23 | 20 | 25 | 21 | 18 | 16 |
| 10 | 47 | 35 | 27 | 22 | 44 | 33 | 26 | 21 | 30 | 24 | 20 | 26 | 21 | 18 | 23 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14640 | 14640 | 14640 |
| 5° | 14685 | 14271 | 14279 |
| 10° | 14553 | 13942 | 13872 |
| 15° | 14366 | 13569 | 13429 |
| 20° | 14098 | 13143 | 12941 |
| 25° | 13767 | 12652 | 12427 |
| 30° | 13428 | 12211 | 11906 |
| 35° | 13049 | 11744 | 11491 |
| 40° | 12686 | 11320 | 11046 |
| 45° | 12284 | 10913 | 10690 |
| 50° | 11887 | 10508 | 10298 |
| 55° | 11448 | 10097 | 9946 |
| 60° | 11021 | 9677 | 9585 |
| 65° | 10584 | 9230 | 9154 |
| 70° | 9925 | 8729 | 8713 |
| 75° | 9088 | 8154 | 8264 |
| 80° | 8133 | 7589 | 7753 |
| 85° | 7242 | 7201 | 7456 |



TEST NUMBER: P332058-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.9 | 2.0 |
| 10°-20° | 367.5 | 5.7 |
| 20°-30° | 549.7 | 8.5 |
| 30°-40° | 656.5 | 10.1 |
| 40°-50° | 686.9 | 10.6 |
| 50°-60° | 644.6 | 10.0 |
| 60°-70° | 538.3 | 8.3 |
| 70°-80° | 385.2 | 6.0 |
| 80°-90° | 231.7 | 3.6 |
| 90°-100° | 188.7 | 2.9 |
| 100°-110° | 239.4 | 3.7 |
| 110°-120° | 297.7 | 4.6 |
| 120°-130° | 339.0 | 5.2 |
| 130°-140° | 353.7 | 5.5 |
| 140°-150° | 333.7 | 5.2 |
| 150°-160° | 277.7 | 4.3 |
| 160°-170° | 184.8 | 2.9 |
| 170°-180° | 64.7 | 1.0 |
| 0°-30° | 1046.2 | 16.2 |
| 0°-40° | 1702.7 | 26.3 |
| 0°-60° | 3034.1 | 46.9 |
| 0°-90° | 4189.4 | 64.8 |
| 90°-120° | 725.8 | 11.2 |
| 90°-150° | 1752.1 | 27.1 |
| 90°-180° | 2279.0 | 35.2 |
| 0°-180° | 6468.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1360 | 1360 | 1360 | 1360 | 1360 | |
| 5° | 1362 | 1358 | 1350 | 1361 | 1360 | 129 |
| 15° | 1296 | 1300 | 1299 | 1313 | 1313 | 365 |
| 25° | 1170 | 1185 | 1190 | 1208 | 1209 | 539 |
| 35° | 1008 | 1031 | 1050 | 1072 | 1079 | 630 |
| 45° | 824 | 859 | 896 | 924 | 936 | 635 |
| 55° | 628 | 677 | 730 | 769 | 782 | 562 |
| 65° | 434 | 492 | 557 | 600 | 616 | 429 |
| 75° | 236 | 305 | 379 | 426 | 446 | 252 |
| 85° | 73 | 147 | 225 | 274 | 290 | 76 |
| 90° | 20 | 98 | 180 | 231 | 249 | 15 |
| 95° | 48 | 110 | 186 | 233 | 249 | 48 |
| 105° | 133 | 171 | 238 | 278 | 294 | 142 |
| 115° | 236 | 257 | 308 | 342 | 355 | 234 |
| 125° | 339 | 343 | 382 | 410 | 420 | 303 |
| 135° | 437 | 439 | 454 | 478 | 485 | 337 |
| 145° | 528 | 527 | 529 | 540 | 544 | 329 |
| 155° | 603 | 603 | 603 | 605 | 602 | 277 |
| 165° | 656 | 655 | 655 | 658 | 654 | 185 |
| 175° | 683 | 681 | 681 | 683 | 680 | 65 |
| 180° | 684 | 684 | 684 | 684 | 684 | |



TEST NUMBER: P332058-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 |
| 2.5° | 1366.0 | 1365.3 | 1364.4 | 1363.7 | 1362.8 | 1361.4 | 1359.3 | 1357.2 | 1355.1 | 1353.0 | 1355.1 |
| 5° | 1361.6 | 1360.9 | 1360.3 | 1359.6 | 1359.0 | 1357.6 | 1355.7 | 1353.7 | 1351.7 | 1349.7 | 1352.4 |
| 7.5° | 1348.2 | 1348.4 | 1348.5 | 1348.7 | 1348.8 | 1347.9 | 1346.0 | 1344.1 | 1342.2 | 1340.2 | 1343.5 |
| 10° | 1336.4 | 1337.1 | 1337.8 | 1338.4 | 1339.1 | 1338.5 | 1336.9 | 1335.2 | 1333.6 | 1331.9 | 1335.2 |
| 12.5° | 1322.2 | 1323.0 | 1324.0 | 1324.9 | 1325.9 | 1325.8 | 1324.6 | 1323.5 | 1322.4 | 1321.3 | 1324.3 |
| 15° | 1296.4 | 1297.4 | 1298.4 | 1299.4 | 1300.3 | 1300.7 | 1300.3 | 1300.0 | 1299.7 | 1299.4 | 1302.7 |
| 17.5° | 1263.8 | 1265.7 | 1267.7 | 1269.7 | 1271.7 | 1272.6 | 1272.5 | 1272.3 | 1272.2 | 1272.1 | 1275.1 |
| 20° | 1240.1 | 1242.1 | 1244.1 | 1246.0 | 1248.0 | 1249.3 | 1250.0 | 1250.7 | 1251.3 | 1252.0 | 1254.9 |
| 22.5° | 1215.2 | 1217.2 | 1219.2 | 1221.2 | 1223.1 | 1224.6 | 1225.5 | 1226.4 | 1227.3 | 1228.2 | 1232.0 |
| 25° | 1170.4 | 1173.7 | 1177.0 | 1180.3 | 1183.6 | 1185.7 | 1186.8 | 1187.7 | 1188.7 | 1189.7 | 1194.0 |
| 27.5° | 1125.4 | 1129.2 | 1132.9 | 1136.7 | 1140.4 | 1143.4 | 1145.5 | 1147.5 | 1149.7 | 1151.8 | 1155.5 |
| 30° | 1093.4 | 1097.7 | 1101.9 | 1106.3 | 1110.5 | 1114.0 | 1116.6 | 1119.3 | 1121.9 | 1124.5 | 1128.5 |
| 32.5° | 1057.8 | 1062.6 | 1067.4 | 1072.2 | 1077.0 | 1081.2 | 1084.6 | 1088.1 | 1091.5 | 1094.9 | 1099.1 |
| 35° | 1007.5 | 1012.8 | 1018.0 | 1023.3 | 1028.6 | 1033.3 | 1037.6 | 1041.9 | 1046.1 | 1050.5 | 1055.4 |
| 37.5° | 954.1 | 960.1 | 966.0 | 971.9 | 977.9 | 983.4 | 988.7 | 994.0 | 999.3 | 1004.6 | 1010.1 |
| 40° | 918.6 | 924.5 | 930.5 | 936.3 | 942.3 | 948.6 | 955.2 | 961.7 | 968.3 | 974.9 | 980.5 |
| 42.5° | 879.5 | 886.7 | 894.0 | 901.2 | 908.4 | 915.5 | 922.4 | 929.2 | 936.0 | 942.9 | 949.0 |
| 45° | 823.8 | 831.7 | 839.5 | 847.4 | 855.4 | 863.5 | 871.7 | 879.9 | 888.2 | 896.4 | 902.6 |
| 47.5° | 765.3 | 774.3 | 783.3 | 792.3 | 801.3 | 810.4 | 819.8 | 829.2 | 838.7 | 848.1 | 855.1 |
| 50° | 727.5 | 736.7 | 745.9 | 755.1 | 764.3 | 774.0 | 784.3 | 794.5 | 804.6 | 814.8 | 822.5 |
| 52.5° | 687.2 | 696.9 | 706.6 | 716.4 | 726.1 | 736.7 | 747.9 | 759.1 | 770.4 | 781.7 | 789.6 |
| 55° | 628.2 | 639.0 | 649.9 | 660.8 | 671.7 | 683.0 | 694.8 | 706.7 | 718.6 | 730.5 | 739.3 |
| 57.5° | 570.7 | 582.0 | 593.3 | 604.6 | 616.0 | 628.2 | 641.1 | 654.1 | 667.0 | 680.0 | 689.0 |
| 60° | 530.4 | 542.2 | 554.1 | 566.0 | 577.8 | 590.5 | 604.0 | 617.5 | 631.0 | 644.5 | 653.7 |
| 62.5° | 492.5 | 504.6 | 516.7 | 528.9 | 540.9 | 554.1 | 568.4 | 582.7 | 597.0 | 611.3 | 620.5 |
| 65° | 434.1 | 447.0 | 459.8 | 472.6 | 485.5 | 499.2 | 513.6 | 528.1 | 542.6 | 557.0 | 566.9 |
| 67.5° | 374.8 | 388.5 | 402.1 | 415.8 | 429.3 | 443.6 | 458.3 | 473.1 | 487.8 | 502.6 | 513.3 |
| 70° | 333.4 | 347.5 | 361.7 | 375.8 | 390.0 | 405.0 | 420.8 | 436.6 | 452.4 | 468.2 | 478.7 |
| 72.5° | 295.4 | 309.6 | 323.8 | 337.9 | 352.0 | 367.3 | 383.6 | 399.9 | 416.3 | 432.6 | 443.5 |
| 75° | 235.5 | 251.1 | 266.6 | 282.0 | 297.5 | 313.4 | 329.9 | 346.4 | 362.8 | 379.3 | 390.1 |
| 77.5° | 183.4 | 199.1 | 214.6 | 230.3 | 245.8 | 261.9 | 278.5 | 295.1 | 311.7 | 328.3 | 339.8 |
| 80° | 146.7 | 162.8 | 179.0 | 195.1 | 211.2 | 227.8 | 245.0 | 262.1 | 279.2 | 296.3 | 307.6 |
| 82.5° | 114.7 | 131.1 | 147.5 | 163.9 | 180.2 | 197.2 | 214.5 | 232.0 | 249.3 | 266.6 | 277.9 |
| 85° | 72.6 | 89.1 | 105.6 | 122.0 | 138.5 | 155.4 | 172.9 | 190.3 | 207.7 | 225.2 | 236.4 |
| 87.5° | 39.5 | 56.2 | 72.8 | 89.4 | 106.0 | 122.9 | 140.1 | 157.1 | 174.3 | 191.3 | 202.6 |
| 90° | 19.8 | 37.1 | 54.5 | 71.8 | 89.1 | 107.0 | 125.3 | 143.6 | 162.0 | 180.3 | 192.0 |
| 92.5° | 31.1 | 46.5 | 61.8 | 77.2 | 92.6 | 109.0 | 126.3 | 143.7 | 161.2 | 178.6 | 189.9 |
| 95° | 48.0 | 61.7 | 75.4 | 89.1 | 102.7 | 118.1 | 135.2 | 152.3 | 169.4 | 186.4 | 197.2 |
| 97.5° | 70.9 | 83.0 | 95.3 | 107.4 | 119.7 | 133.8 | 150.0 | 166.1 | 182.2 | 198.3 | 208.6 |
| 100° | 86.4 | 97.7 | 109.0 | 120.2 | 131.5 | 145.0 | 160.7 | 176.4 | 192.2 | 207.9 | 217.8 |
| 102.5° | 104.6 | 114.5 | 124.4 | 134.3 | 144.3 | 157.0 | 172.8 | 188.4 | 204.1 | 219.7 | 229.4 |
| 105° | 132.8 | 141.0 | 149.1 | 157.2 | 165.4 | 177.1 | 192.3 | 207.5 | 222.7 | 238.0 | 247.2 |
| 107.5° | 164.2 | 171.0 | 177.9 | 184.7 | 191.6 | 202.0 | 215.8 | 229.7 | 243.6 | 257.4 | 266.6 |
| 110° | 183.6 | 189.7 | 196.0 | 202.1 | 208.3 | 218.1 | 231.5 | 244.9 | 258.3 | 271.7 | 280.7 |



TEST NUMBER: P332058-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 205.1 | 210.1 | 215.2 | 220.2 | 225.2 | 234.0 | 246.8 | 259.4 | 272.1 | 284.8 | 293.7 |
| 115° | 235.9 | 240.2 | 244.5 | 248.8 | 253.2 | 261.1 | 272.7 | 284.4 | 296.0 | 307.6 | 315.6 |
| 117.5° | 268.1 | 270.8 | 273.4 | 276.1 | 278.8 | 285.5 | 296.3 | 307.2 | 318.0 | 328.8 | 336.6 |
| 120° | 287.1 | 289.5 | 291.8 | 294.2 | 296.5 | 302.8 | 313.1 | 323.4 | 333.7 | 343.9 | 351.4 |
| 122.5° | 308.2 | 309.5 | 310.9 | 312.4 | 313.7 | 319.4 | 329.4 | 339.5 | 349.5 | 359.5 | 366.6 |
| 125° | 338.8 | 339.2 | 339.6 | 339.9 | 340.3 | 345.1 | 354.4 | 363.7 | 373.1 | 382.4 | 388.8 |
| 127.5° | 368.5 | 368.9 | 369.4 | 369.9 | 370.2 | 374.3 | 381.9 | 389.6 | 397.2 | 404.8 | 410.7 |
| 130° | 388.3 | 388.9 | 389.6 | 390.2 | 390.8 | 394.3 | 400.5 | 406.7 | 412.9 | 419.1 | 424.9 |
| 132.5° | 406.9 | 407.8 | 408.7 | 409.5 | 410.5 | 413.4 | 418.4 | 423.4 | 428.4 | 433.5 | 438.8 |
| 135° | 436.8 | 437.2 | 437.6 | 438.0 | 438.4 | 440.4 | 443.8 | 447.3 | 450.8 | 454.3 | 459.8 |
| 137.5° | 464.5 | 464.8 | 465.1 | 465.5 | 465.8 | 467.1 | 469.5 | 471.8 | 474.2 | 476.5 | 481.3 |
| 140° | 482.7 | 483.2 | 483.8 | 484.5 | 485.0 | 485.9 | 487.0 | 488.1 | 489.2 | 490.3 | 495.1 |
| 142.5° | 500.3 | 500.6 | 501.0 | 501.2 | 501.6 | 502.0 | 502.4 | 502.8 | 503.2 | 503.6 | 507.9 |
| 145° | 527.8 | 527.7 | 527.6 | 527.5 | 527.4 | 527.5 | 527.9 | 528.3 | 528.7 | 529.0 | 531.5 |
| 147.5° | 550.4 | 550.8 | 551.3 | 551.7 | 552.1 | 552.5 | 552.9 | 553.2 | 553.6 | 553.8 | 554.7 |
| 150° | 567.2 | 567.4 | 567.7 | 567.9 | 568.2 | 568.4 | 568.6 | 568.8 | 569.1 | 569.3 | 569.3 |
| 152.5° | 581.0 | 581.3 | 581.6 | 581.9 | 582.3 | 582.5 | 582.7 | 582.8 | 583.0 | 583.1 | 583.2 |
| 155° | 602.7 | 602.7 | 602.7 | 602.7 | 602.7 | 602.8 | 602.9 | 602.9 | 603.1 | 603.2 | 603.7 |
| 157.5° | 621.1 | 621.0 | 620.9 | 620.8 | 620.6 | 620.6 | 620.7 | 620.8 | 620.9 | 620.9 | 621.4 |
| 160° | 632.7 | 632.5 | 632.3 | 632.1 | 631.8 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 632.3 |
| 162.5° | 643.1 | 642.7 | 642.4 | 642.1 | 641.8 | 641.7 | 641.8 | 641.9 | 642.0 | 642.1 | 642.6 |
| 165° | 656.4 | 656.1 | 655.7 | 655.3 | 655.0 | 654.8 | 654.8 | 654.8 | 654.8 | 654.8 | 655.5 |
| 167.5° | 667.0 | 666.6 | 666.1 | 665.6 | 665.2 | 665.0 | 665.1 | 665.2 | 665.2 | 665.3 | 666.1 |
| 170° | 673.1 | 672.6 | 672.1 | 671.7 | 671.2 | 670.9 | 670.9 | 670.9 | 670.9 | 670.9 | 671.8 |
| 172.5° | 677.8 | 677.3 | 676.8 | 676.4 | 675.9 | 675.7 | 675.7 | 675.7 | 675.7 | 675.7 | 676.5 |
| 175° | 682.8 | 682.3 | 681.8 | 681.4 | 680.9 | 680.6 | 680.6 | 680.6 | 680.6 | 680.6 | 681.4 |
| 177.5° | 684.9 | 684.5 | 684.1 | 683.6 | 683.2 | 683.1 | 683.1 | 683.1 | 683.1 | 683.1 | 683.6 |
| 180° | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 |



TEST NUMBER: P332058-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 |
| 2.5° | 1357.2 | 1359.3 | 1361.4 | 1362.4 | 1362.1 | 1361.8 | 1361.5 | 1361.3 |
| 5° | 1355.0 | 1357.6 | 1360.3 | 1361.4 | 1361.1 | 1360.7 | 1360.5 | 1360.1 |
| 7.5° | 1346.8 | 1350.1 | 1353.4 | 1354.9 | 1354.4 | 1354.1 | 1353.7 | 1353.3 |
| 10° | 1338.5 | 1341.8 | 1345.1 | 1346.4 | 1345.8 | 1345.1 | 1344.4 | 1343.8 |
| 12.5° | 1327.4 | 1330.4 | 1333.4 | 1334.5 | 1333.9 | 1333.2 | 1332.6 | 1331.9 |
| 15° | 1305.9 | 1309.2 | 1312.5 | 1314.0 | 1313.7 | 1313.3 | 1313.1 | 1312.7 |
| 17.5° | 1278.0 | 1281.0 | 1283.9 | 1285.2 | 1284.8 | 1284.3 | 1283.8 | 1283.4 |
| 20° | 1257.8 | 1260.8 | 1263.8 | 1265.5 | 1265.7 | 1266.1 | 1266.4 | 1266.8 |
| 22.5° | 1235.8 | 1239.5 | 1243.2 | 1245.0 | 1244.8 | 1244.6 | 1244.4 | 1244.3 |
| 25° | 1198.3 | 1202.6 | 1206.8 | 1209.0 | 1209.0 | 1209.0 | 1209.0 | 1209.0 |
| 27.5° | 1159.1 | 1162.8 | 1166.5 | 1168.5 | 1168.8 | 1169.0 | 1169.3 | 1169.6 |
| 30° | 1132.5 | 1136.4 | 1140.3 | 1142.3 | 1142.3 | 1142.3 | 1142.3 | 1142.3 |
| 32.5° | 1103.3 | 1107.6 | 1111.7 | 1114.3 | 1115.0 | 1115.9 | 1116.6 | 1117.4 |
| 35° | 1060.4 | 1065.3 | 1070.2 | 1073.4 | 1074.7 | 1076.0 | 1077.3 | 1078.6 |
| 37.5° | 1015.7 | 1021.3 | 1026.9 | 1030.2 | 1031.3 | 1032.4 | 1033.4 | 1034.4 |
| 40° | 986.1 | 991.6 | 997.3 | 1000.7 | 1002.0 | 1003.3 | 1004.7 | 1006.0 |
| 42.5° | 955.2 | 961.3 | 967.4 | 971.4 | 973.2 | 975.1 | 976.9 | 978.7 |
| 45° | 908.9 | 915.1 | 921.4 | 925.9 | 928.5 | 931.1 | 933.8 | 936.3 |
| 47.5° | 862.1 | 869.2 | 876.3 | 880.8 | 882.8 | 884.9 | 886.9 | 888.9 |
| 50° | 830.0 | 837.6 | 845.2 | 850.1 | 852.4 | 854.7 | 857.1 | 859.3 |
| 52.5° | 797.4 | 805.2 | 813.0 | 818.4 | 821.2 | 824.1 | 826.9 | 829.7 |
| 55° | 748.2 | 757.1 | 766.0 | 771.8 | 774.4 | 777.0 | 779.7 | 782.3 |
| 57.5° | 698.0 | 706.9 | 715.9 | 721.9 | 725.0 | 728.1 | 731.2 | 734.2 |
| 60° | 662.9 | 672.1 | 681.4 | 687.8 | 691.4 | 695.0 | 698.6 | 702.3 |
| 62.5° | 629.7 | 638.9 | 648.2 | 654.5 | 657.8 | 661.2 | 664.6 | 667.9 |
| 65° | 576.8 | 586.7 | 596.6 | 603.1 | 606.4 | 609.7 | 613.0 | 616.3 |
| 67.5° | 524.1 | 535.0 | 545.7 | 552.5 | 555.3 | 558.1 | 560.8 | 563.6 |
| 70° | 489.3 | 499.8 | 510.3 | 517.3 | 520.6 | 523.9 | 527.1 | 530.4 |
| 72.5° | 454.2 | 465.1 | 475.8 | 482.9 | 486.2 | 489.5 | 492.8 | 496.1 |
| 75° | 401.1 | 411.9 | 422.7 | 430.2 | 434.1 | 438.1 | 442.1 | 445.9 |
| 77.5° | 351.2 | 362.7 | 374.2 | 381.4 | 384.5 | 387.5 | 390.5 | 393.5 |
| 80° | 318.7 | 329.9 | 341.1 | 348.4 | 351.7 | 355.0 | 358.3 | 361.5 |
| 82.5° | 289.1 | 300.3 | 311.4 | 318.7 | 322.0 | 325.3 | 328.6 | 331.9 |
| 85° | 247.6 | 258.8 | 269.9 | 277.2 | 280.5 | 283.8 | 287.1 | 290.4 |
| 87.5° | 214.0 | 225.2 | 236.5 | 243.8 | 247.1 | 250.5 | 253.8 | 257.1 |
| 90° | 203.7 | 215.4 | 227.0 | 234.6 | 238.2 | 241.7 | 245.2 | 248.7 |
| 92.5° | 201.2 | 212.5 | 223.9 | 230.9 | 233.8 | 236.7 | 239.6 | 242.5 |
| 95° | 207.8 | 218.5 | 229.2 | 236.2 | 239.5 | 242.8 | 246.1 | 249.4 |
| 97.5° | 219.0 | 229.3 | 239.7 | 246.5 | 249.8 | 253.0 | 256.3 | 259.5 |
| 100° | 227.7 | 237.6 | 247.5 | 254.3 | 257.8 | 261.4 | 264.9 | 268.4 |
| 102.5° | 239.0 | 248.6 | 258.4 | 264.8 | 268.0 | 271.3 | 274.5 | 277.8 |
| 105° | 256.5 | 265.6 | 274.8 | 281.1 | 284.3 | 287.5 | 290.7 | 293.9 |
| 107.5° | 275.8 | 285.0 | 294.3 | 300.2 | 302.9 | 305.8 | 308.5 | 311.2 |
| 110° | 289.7 | 298.8 | 307.8 | 313.6 | 315.9 | 318.4 | 320.7 | 323.1 |



TEST NUMBER: P332058-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 302.6 | 311.4 | 320.3 | 326.1 | 328.9 | 331.9 | 334.7 | 337.5 |
| 115° | 323.6 | 331.6 | 339.6 | 344.9 | 347.4 | 350.0 | 352.4 | 355.0 |
| 117.5° | 344.4 | 352.2 | 360.1 | 365.0 | 367.3 | 369.6 | 371.7 | 374.0 |
| 120° | 358.8 | 366.3 | 373.7 | 378.5 | 380.6 | 382.7 | 384.7 | 386.8 |
| 122.5° | 373.5 | 380.5 | 387.5 | 392.0 | 394.0 | 396.0 | 397.9 | 399.9 |
| 125° | 395.2 | 401.6 | 408.1 | 412.3 | 414.1 | 415.8 | 417.7 | 419.5 |
| 127.5° | 416.5 | 422.4 | 428.3 | 432.1 | 433.8 | 435.4 | 437.1 | 438.8 |
| 130° | 430.7 | 436.5 | 442.2 | 445.7 | 446.9 | 448.0 | 449.1 | 450.3 |
| 132.5° | 444.3 | 449.7 | 455.1 | 458.6 | 460.2 | 461.8 | 463.4 | 465.0 |
| 135° | 465.2 | 470.7 | 476.1 | 479.6 | 481.0 | 482.4 | 483.8 | 485.2 |
| 137.5° | 486.0 | 490.7 | 495.4 | 498.3 | 499.5 | 500.7 | 501.9 | 503.1 |
| 140° | 499.9 | 504.7 | 509.6 | 512.4 | 513.2 | 514.1 | 514.8 | 515.7 |
| 142.5° | 512.3 | 516.5 | 520.8 | 523.5 | 524.4 | 525.5 | 526.5 | 527.4 |
| 145° | 534.0 | 536.6 | 539.0 | 540.7 | 541.6 | 542.4 | 543.3 | 544.1 |
| 147.5° | 555.4 | 556.2 | 557.0 | 557.6 | 558.1 | 558.6 | 559.0 | 559.5 |
| 150° | 569.3 | 569.3 | 569.3 | 569.3 | 569.3 | 569.2 | 569.1 | 569.1 |
| 152.5° | 583.5 | 583.7 | 583.9 | 583.7 | 583.2 | 582.8 | 582.2 | 581.7 |
| 155° | 604.2 | 604.6 | 605.1 | 604.9 | 604.1 | 603.2 | 602.5 | 601.6 |
| 157.5° | 622.0 | 622.5 | 622.9 | 622.8 | 622.2 | 621.5 | 620.9 | 620.2 |
| 160° | 632.9 | 633.5 | 634.0 | 634.1 | 633.7 | 633.2 | 632.7 | 632.3 |
| 162.5° | 643.2 | 643.9 | 644.4 | 644.3 | 643.6 | 642.8 | 642.1 | 641.3 |
| 165° | 656.3 | 657.0 | 657.7 | 657.6 | 656.8 | 655.9 | 655.2 | 654.3 |
| 167.5° | 666.8 | 667.6 | 668.4 | 668.4 | 667.6 | 666.8 | 666.1 | 665.3 |
| 170° | 672.6 | 673.4 | 674.3 | 674.3 | 673.4 | 672.6 | 671.8 | 670.9 |
| 172.5° | 677.1 | 677.9 | 678.6 | 678.6 | 677.8 | 676.9 | 676.1 | 675.2 |
| 175° | 682.0 | 682.8 | 683.5 | 683.4 | 682.6 | 681.7 | 680.9 | 680.0 |
| 177.5° | 684.3 | 684.9 | 685.4 | 685.3 | 684.7 | 684.0 | 683.3 | 682.7 |
| 180° | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 |

(END OF REPORT)