

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: P331734-935

Luminaire Tested: **SA2XXRDIP-C865D1080U935-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331734-935
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: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6220.5 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

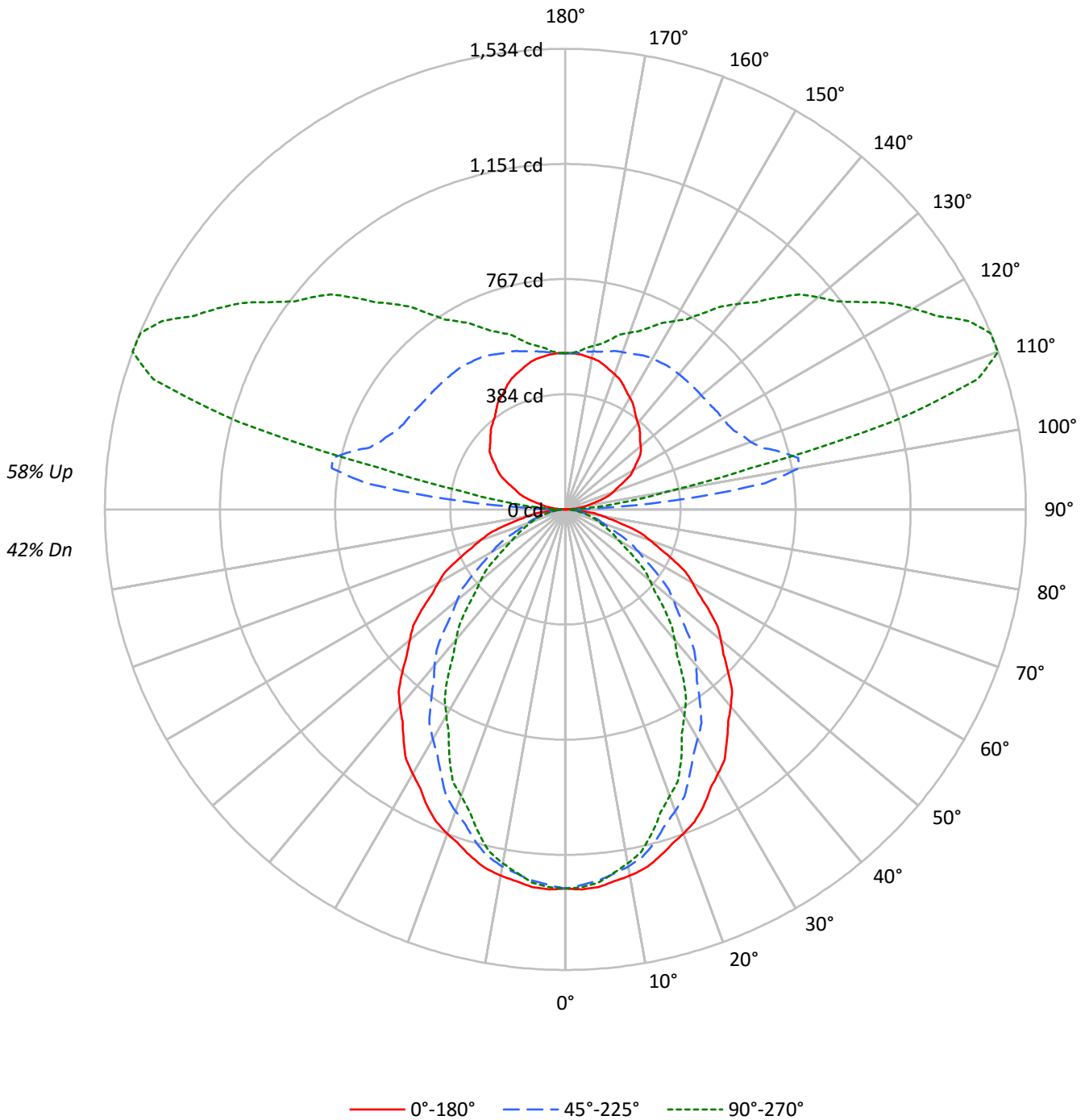
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331734-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331734-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 63 | 63 | 63 | 49 | 49 | 49 | 42 | | | | |
| 1 | 96 | 92 | 89 | 85 | 88 | 84 | 81 | 78 | 70 | 67 | 65 | 56 | 55 | 53 | 44 | 43 | 42 | 36 | | | | |
| 2 | 88 | 81 | 75 | 70 | 80 | 74 | 69 | 65 | 61 | 58 | 55 | 50 | 47 | 45 | 39 | 37 | 36 | 31 | | | | |
| 3 | 81 | 71 | 64 | 59 | 73 | 66 | 60 | 55 | 55 | 50 | 46 | 44 | 41 | 39 | 35 | 33 | 31 | 27 | | | | |
| 4 | 74 | 63 | 56 | 50 | 67 | 58 | 52 | 47 | 49 | 44 | 40 | 40 | 36 | 33 | 31 | 29 | 27 | 23 | | | | |
| 5 | 68 | 57 | 49 | 43 | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 36 | 32 | 29 | 28 | 26 | 24 | 20 | | | | |
| 6 | 63 | 51 | 43 | 38 | 57 | 47 | 40 | 35 | 39 | 34 | 30 | 32 | 29 | 26 | 26 | 23 | 21 | 18 | | | | |
| 7 | 58 | 46 | 38 | 33 | 53 | 43 | 36 | 31 | 36 | 31 | 27 | 30 | 26 | 23 | 24 | 21 | 19 | 16 | | | | |
| 8 | 54 | 42 | 34 | 29 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 27 | 23 | 20 | 22 | 19 | 17 | 15 | | | | |
| 9 | 50 | 38 | 31 | 26 | 46 | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 21 | 18 | 20 | 17 | 15 | 13 | | | | |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 23 | 19 | 17 | 19 | 16 | 14 | 12 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 20384 | 20384 | 20384 |
| 5° | 20462 | 20128 | 20238 |
| 10° | 20305 | 19799 | 19630 |
| 15° | 20072 | 19211 | 18658 |
| 20° | 19747 | 18374 | 17452 |
| 25° | 19417 | 17423 | 16283 |
| 30° | 18957 | 16444 | 14783 |
| 35° | 18510 | 15380 | 13466 |
| 40° | 18061 | 14280 | 11944 |
| 45° | 17532 | 13045 | 10565 |
| 50° | 16990 | 11796 | 9211 |
| 55° | 16434 | 10452 | 7910 |
| 60° | 15791 | 9038 | 6568 |
| 65° | 15060 | 7595 | 5979 |
| 70° | 14186 | 6255 | 5500 |
| 75° | 13119 | 5702 | 5128 |
| 80° | 11576 | 5095 | 4677 |
| 85° | 9114 | 4020 | 4020 |



TEST NUMBER: P331734-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.2 | 1.9 |
| 10°-20° | 324.5 | 5.2 |
| 20°-30° | 455.6 | 7.3 |
| 30°-40° | 496.8 | 8.0 |
| 40°-50° | 456.8 | 7.3 |
| 50°-60° | 358.8 | 5.8 |
| 60°-70° | 233.9 | 3.8 |
| 70°-80° | 120.6 | 1.9 |
| 80°-90° | 36.0 | 0.6 |
| 90°-100° | 208.0 | 3.3 |
| 100°-110° | 705.7 | 11.3 |
| 110°-120° | 749.7 | 12.1 |
| 120°-130° | 617.2 | 9.9 |
| 130°-140° | 495.6 | 8.0 |
| 140°-150° | 374.5 | 6.0 |
| 150°-160° | 263.2 | 4.2 |
| 160°-170° | 154.9 | 2.5 |
| 170°-180° | 50.4 | 0.8 |
| 0°-30° | 898.3 | 14.4 |
| 0°-40° | 1395.1 | 22.4 |
| 0°-60° | 2210.7 | 35.5 |
| 0°-90° | 2601.2 | 41.8 |
| 90°-120° | 1663.4 | 26.7 |
| 90°-150° | 3150.7 | 50.6 |
| 90°-180° | 3619.0 | 58.2 |
| 0°-180° | 6220.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1262 | 1262 | 1262 | 1262 | 1262 | |
| 5° | 1262 | 1256 | 1242 | 1251 | 1249 | 120 |
| 15° | 1201 | 1187 | 1149 | 1128 | 1116 | 338 |
| 25° | 1090 | 1051 | 978 | 933 | 914 | 501 |
| 35° | 939 | 878 | 780 | 711 | 683 | 587 |
| 45° | 768 | 689 | 571 | 493 | 463 | 593 |
| 55° | 584 | 493 | 371 | 305 | 281 | 521 |
| 65° | 394 | 301 | 199 | 162 | 156 | 391 |
| 75° | 210 | 133 | 91 | 84 | 82 | 223 |
| 85° | 49 | 26 | 22 | 22 | 22 | 58 |
| 90° | 1 | 14 | 34 | 32 | 33 | 4 |
| 95° | 35 | 86 | 392 | 148 | 114 | 37 |
| 105° | 122 | 184 | 741 | 1325 | 1127 | 130 |
| 115° | 215 | 272 | 620 | 1280 | 1483 | 213 |
| 125° | 300 | 355 | 596 | 1037 | 1203 | 266 |
| 135° | 352 | 420 | 589 | 871 | 997 | 272 |
| 145° | 402 | 462 | 586 | 728 | 796 | 252 |
| 155° | 457 | 494 | 569 | 644 | 669 | 210 |
| 165° | 498 | 513 | 545 | 578 | 587 | 140 |
| 175° | 519 | 520 | 524 | 531 | 529 | 49 |
| 180° | 520 | 520 | 520 | 520 | 520 | |



TEST NUMBER: P331734-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 |
| 2.5° | 1267.0 | 1266.0 | 1265.0 | 1263.9 | 1263.0 | 1261.4 | 1259.1 | 1256.9 | 1254.6 | 1252.4 | 1254.5 |
| 5° | 1262.5 | 1261.2 | 1259.9 | 1258.6 | 1257.4 | 1255.1 | 1251.8 | 1248.5 | 1245.2 | 1241.9 | 1244.1 |
| 7.5° | 1249.4 | 1247.8 | 1246.3 | 1244.7 | 1243.1 | 1240.4 | 1236.6 | 1232.7 | 1228.8 | 1224.9 | 1225.6 |
| 10° | 1238.5 | 1236.7 | 1234.9 | 1233.1 | 1231.3 | 1228.0 | 1222.9 | 1217.8 | 1212.7 | 1207.6 | 1206.9 |
| 12.5° | 1224.8 | 1222.5 | 1220.4 | 1218.2 | 1216.0 | 1211.7 | 1205.1 | 1198.7 | 1192.1 | 1185.7 | 1184.3 |
| 15° | 1200.8 | 1198.0 | 1195.2 | 1192.4 | 1189.6 | 1183.9 | 1175.3 | 1166.7 | 1158.0 | 1149.3 | 1144.5 |
| 17.5° | 1171.3 | 1167.0 | 1162.8 | 1158.5 | 1154.3 | 1146.6 | 1135.5 | 1124.4 | 1113.4 | 1102.3 | 1096.6 |
| 20° | 1149.3 | 1144.3 | 1139.2 | 1134.1 | 1129.0 | 1120.2 | 1107.4 | 1094.8 | 1082.1 | 1069.4 | 1063.0 |
| 22.5° | 1125.6 | 1119.9 | 1114.2 | 1108.5 | 1102.9 | 1092.9 | 1078.5 | 1064.2 | 1049.9 | 1035.5 | 1027.3 |
| 25° | 1089.9 | 1081.8 | 1073.7 | 1065.6 | 1057.5 | 1045.0 | 1028.2 | 1011.5 | 994.7 | 978.0 | 967.6 |
| 27.5° | 1047.0 | 1038.1 | 1029.3 | 1020.5 | 1011.7 | 997.8 | 978.9 | 960.0 | 941.1 | 922.2 | 910.1 |
| 30° | 1016.8 | 1007.2 | 997.6 | 987.9 | 978.3 | 963.3 | 943.0 | 922.6 | 902.3 | 882.0 | 869.1 |
| 32.5° | 987.6 | 976.3 | 965.0 | 953.7 | 942.5 | 926.5 | 905.8 | 885.0 | 864.4 | 843.6 | 828.9 |
| 35° | 939.1 | 926.2 | 913.3 | 900.3 | 887.3 | 869.7 | 847.3 | 825.0 | 802.7 | 780.3 | 764.3 |
| 37.5° | 890.7 | 876.5 | 862.3 | 848.0 | 833.8 | 814.8 | 791.0 | 767.2 | 743.4 | 719.5 | 701.9 |
| 40° | 856.9 | 841.6 | 826.4 | 811.1 | 795.9 | 776.0 | 751.4 | 726.8 | 702.1 | 677.5 | 659.4 |
| 42.5° | 822.2 | 806.1 | 790.1 | 774.0 | 757.9 | 737.2 | 711.8 | 686.3 | 660.9 | 635.4 | 616.8 |
| 45° | 767.8 | 750.7 | 733.7 | 716.7 | 699.7 | 677.9 | 651.3 | 624.6 | 597.9 | 571.3 | 553.2 |
| 47.5° | 714.7 | 696.7 | 678.7 | 660.6 | 642.7 | 619.8 | 592.4 | 564.8 | 537.3 | 509.8 | 491.9 |
| 50° | 676.4 | 658.3 | 640.3 | 622.2 | 604.2 | 581.3 | 553.4 | 525.4 | 497.5 | 469.6 | 452.0 |
| 52.5° | 638.9 | 620.0 | 601.2 | 582.4 | 563.5 | 540.4 | 513.2 | 485.8 | 458.5 | 431.2 | 414.2 |
| 55° | 583.8 | 564.0 | 544.2 | 524.4 | 504.6 | 481.0 | 453.6 | 426.1 | 398.7 | 371.3 | 356.1 |
| 57.5° | 527.4 | 507.0 | 486.7 | 466.4 | 446.2 | 422.8 | 396.4 | 370.1 | 343.7 | 317.4 | 303.4 |
| 60° | 489.0 | 468.6 | 448.4 | 428.1 | 407.8 | 384.5 | 358.3 | 332.2 | 306.1 | 279.9 | 267.0 |
| 62.5° | 451.5 | 431.2 | 410.9 | 390.5 | 370.2 | 347.7 | 322.7 | 297.8 | 272.9 | 247.9 | 235.6 |
| 65° | 394.2 | 373.6 | 353.0 | 332.4 | 311.9 | 290.2 | 267.3 | 244.5 | 221.6 | 198.8 | 190.2 |
| 67.5° | 338.9 | 318.5 | 298.1 | 277.6 | 257.2 | 236.7 | 216.2 | 195.6 | 175.0 | 154.5 | 150.5 |
| 70° | 300.5 | 280.7 | 260.9 | 241.1 | 221.3 | 202.6 | 185.1 | 167.6 | 150.1 | 132.5 | 130.0 |
| 72.5° | 263.9 | 245.0 | 225.9 | 207.0 | 188.0 | 171.4 | 157.4 | 143.3 | 129.2 | 115.2 | 113.0 |
| 75° | 210.3 | 192.4 | 174.7 | 156.9 | 139.1 | 126.0 | 117.3 | 108.7 | 100.0 | 91.4 | 89.6 |
| 77.5° | 157.5 | 141.8 | 126.2 | 110.6 | 95.1 | 85.2 | 81.0 | 76.9 | 72.8 | 68.5 | 67.5 |
| 80° | 124.5 | 111.6 | 98.7 | 85.7 | 72.8 | 65.0 | 62.4 | 59.9 | 57.3 | 54.8 | 53.8 |
| 82.5° | 94.4 | 84.3 | 74.1 | 64.1 | 54.0 | 48.0 | 46.3 | 44.6 | 42.9 | 41.2 | 40.6 |
| 85° | 49.2 | 43.8 | 38.5 | 33.1 | 27.8 | 24.8 | 24.0 | 23.2 | 22.5 | 21.7 | 21.7 |
| 87.5° | 14.8 | 13.8 | 13.0 | 11.7 | 10.5 | 10.3 | 11.3 | 12.7 | 13.9 | 14.1 | 13.7 |
| 90° | 1.0 | 4.0 | 8.0 | 10.0 | 12.0 | 15.0 | 20.0 | 27.0 | 33.0 | 34.0 | 33.0 |
| 92.5° | 12.2 | 17.6 | 24.8 | 29.2 | 36.0 | 45.4 | 68.0 | 99.8 | 128.2 | 130.0 | 109.9 |
| 95° | 35.0 | 39.0 | 49.0 | 58.0 | 74.0 | 98.0 | 144.0 | 231.0 | 347.1 | 392.1 | 343.1 |
| 97.5° | 57.0 | 62.4 | 73.0 | 86.6 | 105.0 | 132.2 | 190.0 | 311.3 | 504.1 | 669.3 | 702.1 |
| 100° | 77.0 | 80.0 | 89.0 | 105.0 | 125.0 | 153.0 | 206.0 | 328.0 | 544.1 | 790.1 | 934.2 |
| 102.5° | 95.4 | 97.6 | 106.6 | 122.6 | 143.4 | 171.4 | 220.4 | 328.9 | 528.9 | 794.2 | 1020.6 |
| 105° | 122.0 | 126.1 | 133.0 | 148.0 | 170.0 | 198.0 | 245.0 | 334.1 | 499.1 | 741.1 | 1007.2 |
| 107.5° | 150.8 | 154.0 | 160.8 | 174.6 | 196.5 | 224.6 | 270.3 | 347.8 | 484.3 | 684.3 | 919.4 |
| 110° | 170.0 | 174.0 | 180.0 | 193.0 | 214.0 | 243.1 | 287.1 | 359.0 | 481.1 | 657.1 | 864.2 |



TEST NUMBER: P331734-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 187.6 | 191.7 | 198.5 | 210.6 | 230.8 | 260.6 | 303.1 | 371.1 | 481.9 | 639.6 | 825.8 |
| 115° | 215.1 | 220.1 | 226.0 | 238.1 | 258.0 | 285.1 | 328.0 | 389.1 | 486.1 | 620.1 | 778.2 |
| 117.5° | 243.5 | 247.5 | 253.5 | 264.1 | 283.3 | 311.3 | 351.0 | 408.3 | 493.3 | 610.7 | 748.1 |
| 120° | 261.1 | 265.0 | 271.0 | 280.1 | 300.1 | 328.0 | 367.0 | 421.1 | 498.1 | 605.1 | 732.1 |
| 122.5° | 277.8 | 281.0 | 287.1 | 296.9 | 316.8 | 345.7 | 382.3 | 432.3 | 503.7 | 601.9 | 718.5 |
| 125° | 300.1 | 303.1 | 309.1 | 321.1 | 341.0 | 369.1 | 405.1 | 450.1 | 512.1 | 596.2 | 699.1 |
| 127.5° | 317.6 | 321.7 | 330.1 | 343.3 | 362.5 | 391.2 | 426.3 | 466.7 | 520.7 | 592.7 | 681.1 |
| 130° | 328.0 | 332.1 | 342.1 | 356.1 | 376.1 | 404.1 | 439.1 | 477.1 | 527.1 | 591.1 | 669.2 |
| 132.5° | 337.7 | 342.5 | 353.3 | 368.1 | 388.9 | 416.9 | 450.3 | 487.5 | 533.5 | 590.3 | 659.5 |
| 135° | 352.1 | 356.1 | 368.1 | 383.1 | 406.0 | 434.1 | 466.1 | 501.1 | 541.1 | 589.1 | 646.1 |
| 137.5° | 365.7 | 370.5 | 382.5 | 398.5 | 421.3 | 447.3 | 478.9 | 511.5 | 547.9 | 588.9 | 636.7 |
| 140° | 376.1 | 380.0 | 392.1 | 408.1 | 430.1 | 456.1 | 486.1 | 517.1 | 551.1 | 588.1 | 631.1 |
| 142.5° | 386.5 | 389.7 | 400.9 | 416.9 | 438.1 | 462.5 | 491.7 | 521.9 | 553.5 | 588.1 | 625.5 |
| 145° | 402.1 | 406.0 | 416.1 | 431.1 | 451.1 | 473.1 | 500.1 | 528.1 | 556.1 | 586.1 | 618.1 |
| 147.5° | 418.9 | 421.9 | 431.4 | 445.3 | 461.9 | 481.5 | 506.9 | 531.5 | 556.9 | 582.6 | 610.5 |
| 150° | 430.1 | 433.1 | 441.1 | 454.1 | 469.1 | 487.1 | 510.1 | 533.1 | 556.1 | 580.1 | 604.1 |
| 152.5° | 441.3 | 442.7 | 450.6 | 462.1 | 476.3 | 492.7 | 513.3 | 533.9 | 554.5 | 576.1 | 598.5 |
| 155° | 457.1 | 458.1 | 464.1 | 475.1 | 486.1 | 501.1 | 518.1 | 535.1 | 552.1 | 569.1 | 588.1 |
| 157.5° | 470.3 | 471.3 | 476.1 | 485.7 | 494.5 | 507.1 | 521.5 | 535.1 | 547.5 | 561.9 | 578.3 |
| 160° | 479.1 | 480.1 | 484.1 | 492.1 | 500.1 | 511.1 | 523.1 | 535.1 | 545.1 | 557.2 | 571.1 |
| 162.5° | 487.9 | 487.3 | 491.3 | 497.7 | 504.9 | 513.5 | 523.9 | 534.3 | 542.7 | 553.1 | 564.7 |
| 165° | 498.1 | 497.1 | 499.1 | 505.1 | 510.1 | 516.1 | 525.1 | 532.1 | 538.1 | 545.1 | 554.1 |
| 167.5° | 506.5 | 505.3 | 507.1 | 510.9 | 514.5 | 518.3 | 524.9 | 530.7 | 533.5 | 538.1 | 543.7 |
| 170° | 512.1 | 510.1 | 511.1 | 514.1 | 516.1 | 519.1 | 524.1 | 529.1 | 531.1 | 534.1 | 538.1 |
| 172.5° | 515.3 | 514.1 | 513.5 | 516.5 | 517.7 | 519.9 | 523.3 | 526.7 | 527.9 | 529.3 | 532.5 |
| 175° | 519.1 | 518.1 | 517.1 | 519.1 | 519.1 | 520.1 | 522.1 | 524.1 | 523.1 | 524.1 | 525.1 |
| 177.5° | 520.9 | 519.3 | 518.5 | 520.1 | 520.1 | 520.1 | 520.9 | 522.5 | 520.9 | 520.1 | 520.9 |
| 180° | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 |



TEST NUMBER: P331734-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 | 1262.5 |
| 2.5° | 1256.5 | 1258.5 | 1260.5 | 1261.4 | 1260.9 | 1260.5 | 1260.2 | 1259.7 |
| 5° | 1246.5 | 1248.7 | 1251.0 | 1251.8 | 1251.0 | 1250.3 | 1249.5 | 1248.7 |
| 7.5° | 1226.3 | 1226.9 | 1227.6 | 1227.3 | 1226.0 | 1224.7 | 1223.3 | 1222.0 |
| 10° | 1206.1 | 1205.3 | 1204.5 | 1203.4 | 1201.9 | 1200.4 | 1198.9 | 1197.3 |
| 12.5° | 1182.9 | 1181.6 | 1180.2 | 1178.3 | 1175.7 | 1173.2 | 1170.6 | 1168.1 |
| 15° | 1139.7 | 1134.9 | 1130.1 | 1126.4 | 1123.9 | 1121.3 | 1118.8 | 1116.2 |
| 17.5° | 1090.8 | 1085.0 | 1079.3 | 1074.3 | 1069.9 | 1065.6 | 1061.2 | 1056.8 |
| 20° | 1056.7 | 1050.3 | 1044.0 | 1038.0 | 1032.4 | 1026.8 | 1021.2 | 1015.7 |
| 22.5° | 1019.3 | 1011.1 | 1002.9 | 996.7 | 992.6 | 988.3 | 984.2 | 980.1 |
| 25° | 957.2 | 946.8 | 936.3 | 929.2 | 925.4 | 921.6 | 917.8 | 914.0 |
| 27.5° | 897.9 | 885.8 | 873.7 | 864.6 | 858.6 | 852.5 | 846.4 | 840.4 |
| 30° | 856.1 | 843.2 | 830.2 | 820.3 | 813.5 | 806.6 | 799.8 | 792.9 |
| 32.5° | 814.1 | 799.3 | 784.5 | 773.9 | 767.5 | 761.0 | 754.6 | 748.1 |
| 35° | 748.3 | 732.4 | 716.4 | 705.6 | 700.0 | 694.4 | 688.8 | 683.2 |
| 37.5° | 684.3 | 666.7 | 649.1 | 637.1 | 630.7 | 624.2 | 617.9 | 611.5 |
| 40° | 641.4 | 623.5 | 605.4 | 593.1 | 586.5 | 579.9 | 573.3 | 566.7 |
| 42.5° | 598.2 | 579.5 | 560.9 | 548.4 | 542.0 | 535.6 | 529.2 | 522.8 |
| 45° | 535.2 | 517.2 | 499.1 | 487.1 | 481.0 | 474.9 | 468.8 | 462.7 |
| 47.5° | 473.9 | 456.0 | 438.1 | 426.4 | 420.9 | 415.3 | 409.7 | 404.2 |
| 50° | 434.5 | 417.0 | 399.5 | 388.1 | 382.7 | 377.4 | 372.0 | 366.7 |
| 52.5° | 397.4 | 380.5 | 363.5 | 352.7 | 347.7 | 342.8 | 337.9 | 332.9 |
| 55° | 340.9 | 325.6 | 310.4 | 300.3 | 295.5 | 290.7 | 285.9 | 281.0 |
| 57.5° | 289.5 | 275.5 | 261.6 | 252.5 | 248.5 | 244.4 | 240.3 | 236.3 |
| 60° | 254.0 | 241.1 | 228.1 | 219.6 | 215.5 | 211.5 | 207.4 | 203.4 |
| 62.5° | 223.3 | 210.9 | 198.5 | 191.1 | 188.7 | 186.3 | 183.8 | 181.4 |
| 65° | 181.5 | 172.9 | 164.3 | 159.5 | 158.8 | 158.1 | 157.3 | 156.5 |
| 67.5° | 146.5 | 142.6 | 138.6 | 136.2 | 135.4 | 134.6 | 133.8 | 133.0 |
| 70° | 127.4 | 124.9 | 122.3 | 120.6 | 119.6 | 118.6 | 117.5 | 116.5 |
| 72.5° | 110.9 | 108.7 | 106.6 | 105.3 | 104.6 | 104.0 | 103.4 | 102.8 |
| 75° | 87.8 | 86.1 | 84.3 | 83.3 | 83.0 | 82.7 | 82.5 | 82.2 |
| 77.5° | 66.6 | 65.5 | 64.5 | 63.8 | 63.4 | 62.9 | 62.6 | 62.2 |
| 80° | 52.8 | 51.8 | 50.8 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 |
| 82.5° | 40.0 | 39.3 | 38.7 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 |
| 85° | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 |
| 87.5° | 13.3 | 12.7 | 12.9 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 90° | 32.0 | 30.0 | 32.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 |
| 92.5° | 87.2 | 74.8 | 66.4 | 60.2 | 59.4 | 56.2 | 57.0 | 55.4 |
| 95° | 262.1 | 201.0 | 159.0 | 137.0 | 124.0 | 116.1 | 113.0 | 114.0 |
| 97.5° | 611.5 | 500.3 | 392.1 | 319.9 | 272.1 | 247.5 | 232.8 | 224.5 |
| 100° | 913.2 | 789.2 | 652.1 | 531.1 | 448.1 | 405.1 | 376.1 | 358.1 |
| 102.5° | 1110.9 | 1082.8 | 982.6 | 854.4 | 764.1 | 690.8 | 654.5 | 630.2 |
| 105° | 1215.2 | 1328.3 | 1341.3 | 1308.3 | 1246.2 | 1184.2 | 1141.3 | 1127.2 |
| 107.5° | 1140.1 | 1310.3 | 1414.3 | 1462.7 | 1470.5 | 1467.1 | 1458.4 | 1439.9 |
| 110° | 1075.2 | 1254.2 | 1382.2 | 1464.3 | 1507.3 | 1526.3 | 1535.3 | 1534.3 |



TEST NUMBER: P331734-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1016.0 | 1187.8 | 1324.6 | 1418.7 | 1478.5 | 1510.3 | 1527.3 | 1532.7 |
| 115° | 943.2 | 1097.3 | 1228.2 | 1331.3 | 1402.3 | 1448.3 | 1474.3 | 1483.3 |
| 117.5° | 888.4 | 1023.6 | 1142.5 | 1239.1 | 1311.5 | 1360.0 | 1387.5 | 1395.1 |
| 120° | 861.2 | 985.2 | 1091.2 | 1182.2 | 1252.2 | 1299.2 | 1328.3 | 1338.3 |
| 122.5° | 839.6 | 953.2 | 1053.6 | 1135.8 | 1198.6 | 1244.8 | 1270.7 | 1279.0 |
| 125° | 808.1 | 911.2 | 999.2 | 1074.2 | 1132.2 | 1170.3 | 1195.2 | 1203.2 |
| 127.5° | 777.1 | 870.4 | 953.4 | 1022.6 | 1073.2 | 1108.8 | 1130.4 | 1136.9 |
| 130° | 757.2 | 843.2 | 922.2 | 988.2 | 1037.2 | 1071.3 | 1091.2 | 1099.2 |
| 132.5° | 738.0 | 817.6 | 890.2 | 952.2 | 1000.4 | 1034.4 | 1052.8 | 1060.0 |
| 135° | 711.1 | 777.1 | 843.2 | 899.1 | 942.2 | 975.2 | 993.2 | 997.2 |
| 137.5° | 689.7 | 744.9 | 797.4 | 846.2 | 885.4 | 913.8 | 929.6 | 935.6 |
| 140° | 676.1 | 724.2 | 770.2 | 814.2 | 846.2 | 872.2 | 887.2 | 893.2 |
| 142.5° | 665.0 | 705.8 | 745.4 | 782.1 | 812.5 | 836.2 | 849.5 | 850.8 |
| 145° | 649.1 | 682.2 | 713.2 | 742.2 | 766.1 | 783.2 | 793.2 | 796.2 |
| 147.5° | 637.0 | 663.0 | 687.2 | 708.3 | 728.1 | 741.8 | 748.6 | 750.4 |
| 150° | 628.1 | 650.1 | 671.1 | 689.1 | 704.1 | 716.2 | 722.1 | 723.2 |
| 152.5° | 619.3 | 639.7 | 657.5 | 673.1 | 684.9 | 695.3 | 699.7 | 699.9 |
| 155° | 607.1 | 623.1 | 638.1 | 649.1 | 660.1 | 667.1 | 671.1 | 669.2 |
| 157.5° | 592.9 | 606.3 | 618.9 | 627.5 | 635.3 | 641.1 | 642.9 | 642.9 |
| 160° | 584.1 | 595.1 | 606.1 | 613.1 | 620.1 | 625.1 | 626.1 | 626.1 |
| 162.5° | 575.3 | 584.7 | 594.1 | 599.5 | 606.5 | 609.9 | 610.9 | 610.1 |
| 165° | 562.1 | 569.1 | 576.1 | 580.1 | 584.1 | 588.1 | 588.1 | 587.1 |
| 167.5° | 549.5 | 554.9 | 559.7 | 563.4 | 565.1 | 567.3 | 567.1 | 565.9 |
| 170° | 543.1 | 546.1 | 550.1 | 552.1 | 553.1 | 556.1 | 555.1 | 553.1 |
| 172.5° | 535.9 | 538.1 | 541.3 | 542.5 | 543.5 | 544.9 | 543.9 | 542.7 |
| 175° | 528.1 | 529.1 | 530.1 | 531.1 | 531.1 | 532.1 | 531.1 | 529.1 |
| 177.5° | 522.5 | 522.5 | 523.3 | 523.3 | 523.3 | 523.3 | 522.5 | 520.9 |
| 180° | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 |

(END OF REPORT)