

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: P331734-930

Luminaire Tested: **SA2XXRDIP-C865D1080U930-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331734-930
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-C865D1080U930-4F0-1E-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: 5890.3 lumens
Efficiency: N/A
Efficacy: 90.1 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

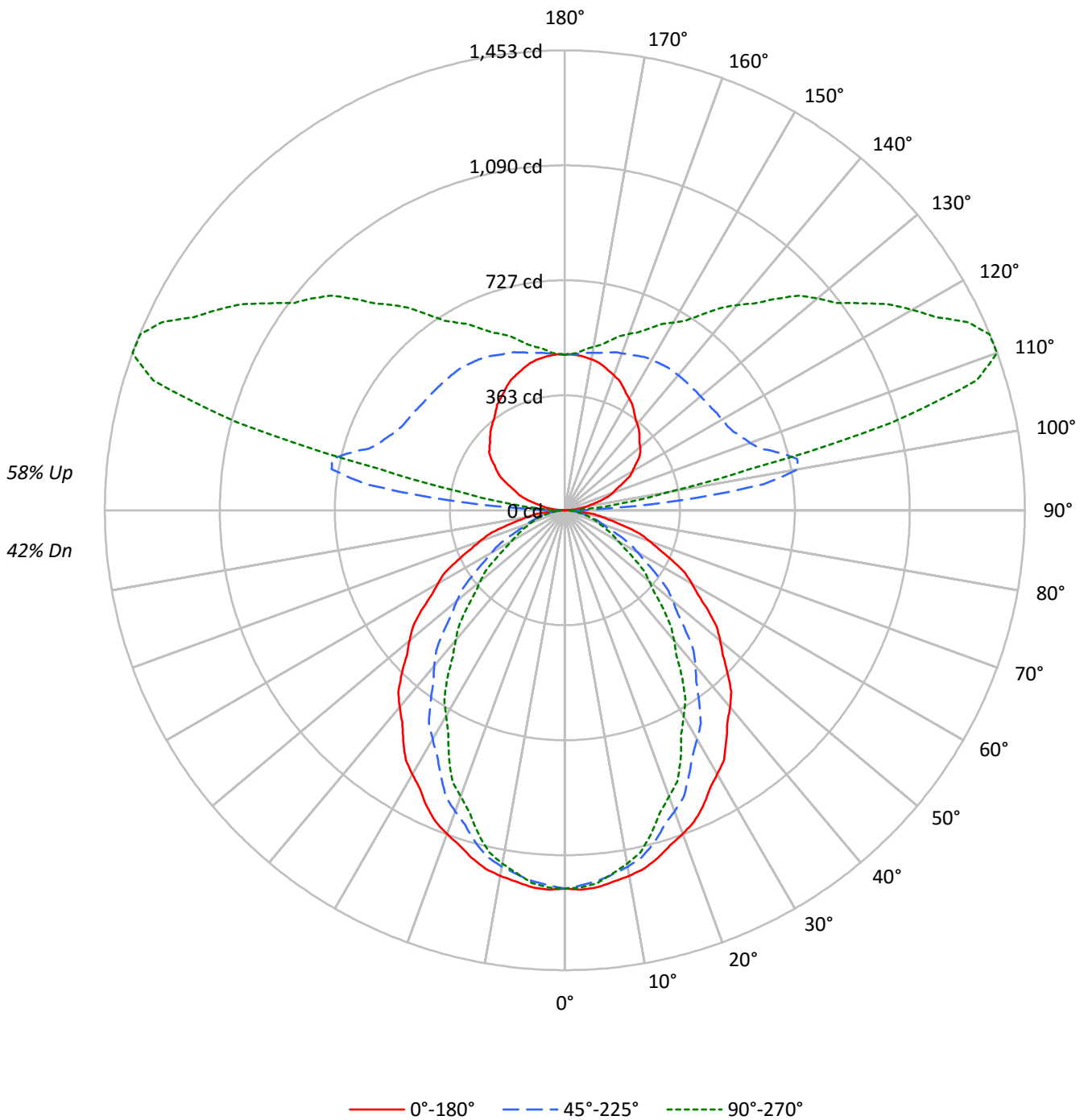
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331734-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331734-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-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 | 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° | 19302 | 19302 | 19302 |
| 5° | 19376 | 19060 | 19164 |
| 10° | 19226 | 18748 | 18589 |
| 15° | 19005 | 18191 | 17668 |
| 20° | 18699 | 17399 | 16526 |
| 25° | 18387 | 16498 | 15419 |
| 30° | 17952 | 15571 | 13998 |
| 35° | 17527 | 14564 | 12751 |
| 40° | 17102 | 13523 | 11310 |
| 45° | 16600 | 12353 | 10003 |
| 50° | 16088 | 11170 | 8721 |
| 55° | 15564 | 9897 | 7491 |
| 60° | 14951 | 8561 | 6219 |
| 65° | 14258 | 7194 | 5662 |
| 70° | 13430 | 5925 | 5207 |
| 75° | 12420 | 5402 | 4860 |
| 80° | 10962 | 4826 | 4426 |
| 85° | 8633 | 3798 | 3798 |



TEST NUMBER: P331734-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.9 | 1.9 |
| 10°-20° | 307.2 | 5.2 |
| 20°-30° | 431.5 | 7.3 |
| 30°-40° | 470.5 | 8.0 |
| 40°-50° | 432.6 | 7.3 |
| 50°-60° | 339.7 | 5.8 |
| 60°-70° | 221.5 | 3.8 |
| 70°-80° | 114.2 | 1.9 |
| 80°-90° | 34.1 | 0.6 |
| 90°-100° | 196.9 | 3.3 |
| 100°-110° | 668.2 | 11.3 |
| 110°-120° | 709.9 | 12.1 |
| 120°-130° | 584.4 | 9.9 |
| 130°-140° | 469.3 | 8.0 |
| 140°-150° | 354.6 | 6.0 |
| 150°-160° | 249.2 | 4.2 |
| 160°-170° | 146.7 | 2.5 |
| 170°-180° | 47.8 | 0.8 |
| 0°-30° | 850.6 | 14.4 |
| 0°-40° | 1321.1 | 22.4 |
| 0°-60° | 2093.4 | 35.5 |
| 0°-90° | 2463.2 | 41.8 |
| 90°-120° | 1575.1 | 26.7 |
| 90°-150° | 2983.4 | 50.6 |
| 90°-180° | 3427.0 | 58.2 |
| 0°-180° | 5890.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1196 | 1196 | 1196 | 1196 | 1196 | |
| 5° | 1196 | 1190 | 1176 | 1185 | 1182 | 113 |
| 15° | 1137 | 1124 | 1088 | 1068 | 1057 | 320 |
| 25° | 1032 | 995 | 926 | 883 | 866 | 474 |
| 35° | 889 | 832 | 739 | 673 | 647 | 556 |
| 45° | 727 | 652 | 541 | 467 | 438 | 561 |
| 55° | 553 | 467 | 352 | 289 | 266 | 494 |
| 65° | 373 | 285 | 188 | 153 | 148 | 370 |
| 75° | 199 | 126 | 87 | 79 | 78 | 211 |
| 85° | 47 | 25 | 20 | 20 | 20 | 55 |
| 90° | 1 | 13 | 32 | 31 | 31 | 4 |
| 95° | 33 | 81 | 371 | 140 | 108 | 35 |
| 105° | 116 | 174 | 702 | 1254 | 1067 | 123 |
| 115° | 204 | 257 | 587 | 1212 | 1405 | 202 |
| 125° | 284 | 336 | 564 | 982 | 1139 | 252 |
| 135° | 333 | 398 | 558 | 825 | 944 | 258 |
| 145° | 381 | 438 | 555 | 689 | 754 | 239 |
| 155° | 433 | 467 | 539 | 609 | 634 | 199 |
| 165° | 472 | 486 | 516 | 547 | 556 | 133 |
| 175° | 492 | 492 | 496 | 502 | 501 | 47 |
| 180° | 492 | 492 | 492 | 492 | 492 | |



TEST NUMBER: P331734-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 |
| 2.5° | 1199.8 | 1198.8 | 1197.8 | 1196.9 | 1196.0 | 1194.4 | 1192.3 | 1190.2 | 1188.1 | 1185.9 | 1187.9 |
| 5° | 1195.5 | 1194.3 | 1193.0 | 1191.8 | 1190.7 | 1188.5 | 1185.4 | 1182.3 | 1179.1 | 1176.0 | 1178.1 |
| 7.5° | 1183.1 | 1181.6 | 1180.1 | 1178.7 | 1177.1 | 1174.6 | 1170.9 | 1167.3 | 1163.6 | 1159.9 | 1160.6 |
| 10° | 1172.7 | 1171.0 | 1169.4 | 1167.7 | 1166.0 | 1162.8 | 1158.0 | 1153.2 | 1148.3 | 1143.5 | 1142.8 |
| 12.5° | 1159.8 | 1157.6 | 1155.6 | 1153.6 | 1151.4 | 1147.4 | 1141.2 | 1135.1 | 1128.9 | 1122.7 | 1121.4 |
| 15° | 1137.0 | 1134.4 | 1131.7 | 1129.1 | 1126.4 | 1121.0 | 1112.9 | 1104.7 | 1096.5 | 1088.3 | 1083.8 |
| 17.5° | 1109.1 | 1105.1 | 1101.1 | 1097.0 | 1093.0 | 1085.7 | 1075.2 | 1064.7 | 1054.3 | 1043.7 | 1038.4 |
| 20° | 1088.3 | 1083.5 | 1078.7 | 1073.9 | 1069.1 | 1060.7 | 1048.6 | 1036.7 | 1024.7 | 1012.6 | 1006.6 |
| 22.5° | 1065.8 | 1060.5 | 1055.1 | 1049.7 | 1044.3 | 1034.9 | 1021.2 | 1007.7 | 994.2 | 980.6 | 972.8 |
| 25° | 1032.1 | 1024.4 | 1016.7 | 1009.0 | 1001.4 | 989.5 | 973.6 | 957.8 | 941.9 | 926.1 | 916.2 |
| 27.5° | 991.4 | 983.0 | 974.7 | 966.3 | 958.0 | 944.9 | 926.9 | 909.1 | 891.1 | 873.3 | 861.8 |
| 30° | 962.9 | 953.7 | 944.6 | 935.5 | 926.3 | 912.2 | 892.9 | 873.7 | 854.4 | 835.2 | 823.0 |
| 32.5° | 935.1 | 924.5 | 913.8 | 903.1 | 892.4 | 877.3 | 857.7 | 838.0 | 818.5 | 798.8 | 784.9 |
| 35° | 889.2 | 877.0 | 864.8 | 852.5 | 840.2 | 823.5 | 802.3 | 781.2 | 760.1 | 738.9 | 723.7 |
| 37.5° | 843.4 | 830.0 | 816.5 | 803.0 | 789.5 | 771.5 | 749.0 | 726.4 | 703.9 | 681.3 | 664.6 |
| 40° | 811.4 | 797.0 | 782.5 | 768.1 | 753.7 | 734.8 | 711.5 | 688.2 | 664.9 | 641.6 | 624.4 |
| 42.5° | 778.5 | 763.3 | 748.1 | 733.0 | 717.7 | 698.1 | 674.0 | 649.9 | 625.8 | 601.7 | 584.1 |
| 45° | 727.0 | 710.9 | 694.8 | 678.7 | 662.6 | 641.9 | 616.7 | 591.4 | 566.1 | 541.0 | 523.8 |
| 47.5° | 676.8 | 659.7 | 642.7 | 625.6 | 608.5 | 586.9 | 560.9 | 534.8 | 508.7 | 482.7 | 465.8 |
| 50° | 640.5 | 623.4 | 606.3 | 589.2 | 572.2 | 550.4 | 524.0 | 497.5 | 471.1 | 444.7 | 428.0 |
| 52.5° | 605.0 | 587.1 | 569.3 | 551.5 | 533.6 | 511.8 | 485.9 | 460.0 | 434.1 | 408.3 | 392.2 |
| 55° | 552.9 | 534.1 | 515.4 | 496.6 | 477.8 | 455.4 | 429.5 | 403.5 | 377.6 | 351.6 | 337.2 |
| 57.5° | 499.4 | 480.1 | 460.9 | 441.6 | 422.5 | 400.4 | 375.4 | 350.4 | 325.5 | 300.5 | 287.3 |
| 60° | 463.0 | 443.8 | 424.6 | 405.4 | 386.1 | 364.1 | 339.3 | 314.5 | 289.8 | 265.1 | 252.8 |
| 62.5° | 427.5 | 408.3 | 389.1 | 369.8 | 350.6 | 329.2 | 305.6 | 282.0 | 258.4 | 234.7 | 223.1 |
| 65° | 373.2 | 353.8 | 334.3 | 314.8 | 295.4 | 274.8 | 253.2 | 231.5 | 209.9 | 188.3 | 180.1 |
| 67.5° | 320.9 | 301.6 | 282.3 | 262.9 | 243.5 | 224.1 | 204.7 | 185.2 | 165.8 | 146.3 | 142.5 |
| 70° | 284.5 | 265.8 | 247.0 | 228.3 | 209.5 | 191.8 | 175.3 | 158.7 | 142.1 | 125.5 | 123.1 |
| 72.5° | 249.9 | 232.0 | 213.9 | 196.0 | 178.0 | 162.3 | 149.0 | 135.7 | 122.4 | 109.1 | 107.0 |
| 75° | 199.1 | 182.2 | 165.4 | 148.5 | 131.8 | 119.3 | 111.0 | 102.9 | 94.7 | 86.6 | 84.9 |
| 77.5° | 149.1 | 134.3 | 119.5 | 104.8 | 90.0 | 80.7 | 76.7 | 72.8 | 68.9 | 64.9 | 63.9 |
| 80° | 117.9 | 105.7 | 93.4 | 81.1 | 68.9 | 61.6 | 59.1 | 56.7 | 54.3 | 51.9 | 51.0 |
| 82.5° | 89.4 | 79.8 | 70.2 | 60.7 | 51.1 | 45.5 | 43.9 | 42.2 | 40.6 | 39.0 | 38.4 |
| 85° | 46.6 | 41.5 | 36.4 | 31.4 | 26.3 | 23.5 | 22.7 | 22.0 | 21.3 | 20.5 | 20.5 |
| 87.5° | 14.0 | 13.0 | 12.3 | 11.1 | 9.9 | 9.8 | 10.7 | 12.1 | 13.2 | 13.4 | 13.0 |
| 90° | 1.0 | 3.8 | 7.6 | 9.5 | 11.3 | 14.2 | 18.9 | 25.6 | 31.2 | 32.2 | 31.2 |
| 92.5° | 11.6 | 16.6 | 23.5 | 27.6 | 34.1 | 43.0 | 64.4 | 94.5 | 121.4 | 123.1 | 104.0 |
| 95° | 33.2 | 36.9 | 46.4 | 55.0 | 70.1 | 92.8 | 136.4 | 218.7 | 328.6 | 371.3 | 324.9 |
| 97.5° | 54.0 | 59.1 | 69.1 | 82.0 | 99.5 | 125.2 | 179.9 | 294.7 | 477.4 | 633.8 | 664.9 |
| 100° | 72.9 | 75.7 | 84.3 | 99.5 | 118.4 | 144.9 | 195.1 | 310.6 | 515.2 | 748.2 | 884.6 |
| 102.5° | 90.3 | 92.5 | 100.9 | 116.1 | 135.8 | 162.3 | 208.7 | 311.4 | 500.8 | 752.0 | 966.5 |
| 105° | 115.5 | 119.4 | 126.0 | 140.1 | 161.0 | 187.5 | 232.0 | 316.3 | 472.6 | 701.8 | 953.7 |
| 107.5° | 142.8 | 145.9 | 152.3 | 165.3 | 186.1 | 212.7 | 255.9 | 329.4 | 458.6 | 648.0 | 870.6 |
| 110° | 161.0 | 164.8 | 170.5 | 182.8 | 202.7 | 230.2 | 271.8 | 340.0 | 455.6 | 622.2 | 818.3 |



TEST NUMBER: P331734-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 177.7 | 181.5 | 187.9 | 199.4 | 218.6 | 246.8 | 287.0 | 351.4 | 456.3 | 605.6 | 782.0 |
| 115° | 203.7 | 208.4 | 214.0 | 225.4 | 244.3 | 269.9 | 310.6 | 368.4 | 460.3 | 587.2 | 736.9 |
| 117.5° | 230.6 | 234.3 | 240.0 | 250.1 | 268.2 | 294.7 | 332.4 | 386.6 | 467.1 | 578.3 | 708.4 |
| 120° | 247.2 | 250.9 | 256.7 | 265.2 | 284.1 | 310.6 | 347.6 | 398.8 | 471.7 | 573.0 | 693.2 |
| 122.5° | 263.1 | 266.1 | 271.8 | 281.1 | 300.0 | 327.3 | 362.0 | 409.4 | 477.0 | 570.0 | 680.4 |
| 125° | 284.1 | 287.0 | 292.7 | 304.0 | 322.9 | 349.5 | 383.6 | 426.2 | 484.9 | 564.5 | 662.0 |
| 127.5° | 300.8 | 304.6 | 312.6 | 325.1 | 343.2 | 370.5 | 403.7 | 441.9 | 493.1 | 561.3 | 645.0 |
| 130° | 310.6 | 314.5 | 323.9 | 337.2 | 356.1 | 382.6 | 415.8 | 451.8 | 499.1 | 559.7 | 633.7 |
| 132.5° | 319.8 | 324.3 | 334.5 | 348.5 | 368.3 | 394.8 | 426.4 | 461.6 | 505.2 | 559.0 | 624.5 |
| 135° | 333.4 | 337.2 | 348.5 | 362.7 | 384.5 | 411.1 | 441.3 | 474.5 | 512.4 | 557.8 | 611.8 |
| 137.5° | 346.3 | 350.8 | 362.2 | 377.3 | 398.9 | 423.5 | 453.5 | 484.4 | 518.9 | 557.7 | 602.9 |
| 140° | 356.1 | 359.9 | 371.3 | 386.5 | 407.2 | 431.9 | 460.3 | 489.7 | 521.9 | 556.9 | 597.6 |
| 142.5° | 366.0 | 369.0 | 379.6 | 394.8 | 414.8 | 438.0 | 465.6 | 494.2 | 524.2 | 556.9 | 592.3 |
| 145° | 380.7 | 384.5 | 394.0 | 408.2 | 427.1 | 448.0 | 473.5 | 500.1 | 526.6 | 555.0 | 585.3 |
| 147.5° | 396.6 | 399.5 | 408.5 | 421.7 | 437.4 | 455.9 | 480.0 | 503.3 | 527.3 | 551.6 | 578.1 |
| 150° | 407.2 | 410.1 | 417.7 | 430.0 | 444.2 | 461.2 | 483.1 | 504.8 | 526.6 | 549.3 | 572.0 |
| 152.5° | 417.8 | 419.2 | 426.7 | 437.6 | 451.0 | 466.5 | 486.1 | 505.6 | 525.1 | 545.5 | 566.7 |
| 155° | 432.8 | 433.7 | 439.4 | 449.9 | 460.3 | 474.5 | 490.6 | 506.7 | 522.8 | 538.9 | 556.9 |
| 157.5° | 445.3 | 446.3 | 450.9 | 459.9 | 468.2 | 480.2 | 493.8 | 506.7 | 518.4 | 532.1 | 547.6 |
| 160° | 453.6 | 454.6 | 458.4 | 465.9 | 473.5 | 484.0 | 495.4 | 506.7 | 516.2 | 527.6 | 540.8 |
| 162.5° | 462.0 | 461.5 | 465.2 | 471.2 | 478.1 | 486.2 | 496.1 | 506.0 | 513.9 | 523.7 | 534.8 |
| 165° | 471.7 | 470.8 | 472.6 | 478.3 | 483.1 | 488.7 | 497.3 | 503.9 | 509.6 | 516.2 | 524.7 |
| 167.5° | 479.6 | 478.5 | 480.2 | 483.8 | 487.2 | 490.8 | 497.0 | 502.6 | 505.2 | 509.6 | 514.9 |
| 170° | 484.9 | 483.1 | 484.0 | 486.8 | 488.7 | 491.5 | 496.3 | 501.0 | 502.9 | 505.7 | 509.6 |
| 172.5° | 488.0 | 486.8 | 486.2 | 489.1 | 490.2 | 492.3 | 495.5 | 498.7 | 499.9 | 501.2 | 504.3 |
| 175° | 491.5 | 490.6 | 489.7 | 491.5 | 491.5 | 492.5 | 494.4 | 496.3 | 495.4 | 496.3 | 497.3 |
| 177.5° | 493.3 | 491.7 | 491.0 | 492.5 | 492.5 | 492.5 | 493.3 | 494.8 | 493.3 | 492.5 | 493.3 |
| 180° | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 |



TEST NUMBER: P331734-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 | 1195.5 |
| 2.5° | 1189.8 | 1191.7 | 1193.6 | 1194.4 | 1194.0 | 1193.6 | 1193.3 | 1192.9 |
| 5° | 1180.3 | 1182.4 | 1184.6 | 1185.4 | 1184.6 | 1183.9 | 1183.2 | 1182.4 |
| 7.5° | 1161.2 | 1161.8 | 1162.5 | 1162.1 | 1160.9 | 1159.7 | 1158.4 | 1157.2 |
| 10° | 1142.1 | 1141.3 | 1140.6 | 1139.5 | 1138.1 | 1136.7 | 1135.2 | 1133.8 |
| 12.5° | 1120.1 | 1118.8 | 1117.5 | 1115.7 | 1113.3 | 1110.9 | 1108.5 | 1106.1 |
| 15° | 1079.2 | 1074.6 | 1070.1 | 1066.6 | 1064.2 | 1061.8 | 1059.4 | 1057.0 |
| 17.5° | 1032.9 | 1027.4 | 1022.1 | 1017.2 | 1013.1 | 1009.0 | 1004.9 | 1000.7 |
| 20° | 1000.6 | 994.6 | 988.6 | 982.9 | 977.6 | 972.3 | 967.0 | 961.8 |
| 22.5° | 965.2 | 957.4 | 949.7 | 943.8 | 939.9 | 935.9 | 932.0 | 928.1 |
| 25° | 906.4 | 896.5 | 886.6 | 879.9 | 876.3 | 872.7 | 869.1 | 865.5 |
| 27.5° | 850.3 | 838.8 | 827.3 | 818.7 | 813.0 | 807.2 | 801.5 | 795.8 |
| 30° | 810.7 | 798.4 | 786.1 | 776.7 | 770.3 | 763.8 | 757.3 | 750.8 |
| 32.5° | 770.9 | 756.8 | 742.9 | 732.8 | 726.8 | 720.6 | 714.5 | 708.4 |
| 35° | 708.6 | 693.5 | 678.3 | 668.1 | 662.8 | 657.5 | 652.2 | 646.9 |
| 37.5° | 648.0 | 631.3 | 614.7 | 603.2 | 597.2 | 591.1 | 585.1 | 579.0 |
| 40° | 607.4 | 590.4 | 573.2 | 561.6 | 555.4 | 549.1 | 542.8 | 536.6 |
| 42.5° | 566.5 | 548.8 | 531.2 | 519.3 | 513.2 | 507.2 | 501.1 | 495.0 |
| 45° | 506.8 | 489.8 | 472.6 | 461.2 | 455.4 | 449.7 | 443.9 | 438.1 |
| 47.5° | 448.7 | 431.8 | 414.8 | 403.7 | 398.5 | 393.2 | 388.0 | 382.8 |
| 50° | 411.5 | 394.8 | 378.3 | 367.5 | 362.4 | 357.3 | 352.3 | 347.2 |
| 52.5° | 376.3 | 360.3 | 344.2 | 333.9 | 329.2 | 324.6 | 319.9 | 315.3 |
| 55° | 322.8 | 308.3 | 293.9 | 284.4 | 279.8 | 275.2 | 270.7 | 266.1 |
| 57.5° | 274.1 | 260.9 | 247.7 | 239.1 | 235.3 | 231.4 | 227.6 | 223.7 |
| 60° | 240.5 | 228.3 | 216.0 | 208.0 | 204.1 | 200.2 | 196.4 | 192.6 |
| 62.5° | 211.4 | 199.7 | 188.0 | 181.0 | 178.7 | 176.4 | 174.1 | 171.8 |
| 65° | 171.9 | 163.7 | 155.6 | 151.1 | 150.3 | 149.7 | 149.0 | 148.2 |
| 67.5° | 138.8 | 135.0 | 131.3 | 129.0 | 128.2 | 127.4 | 126.7 | 126.0 |
| 70° | 120.7 | 118.3 | 115.9 | 114.2 | 113.2 | 112.3 | 111.3 | 110.3 |
| 72.5° | 105.0 | 103.0 | 100.9 | 99.7 | 99.1 | 98.5 | 97.9 | 97.3 |
| 75° | 83.2 | 81.5 | 79.8 | 78.8 | 78.6 | 78.4 | 78.1 | 77.9 |
| 77.5° | 63.0 | 62.0 | 61.1 | 60.4 | 60.0 | 59.6 | 59.3 | 58.9 |
| 80° | 50.0 | 49.1 | 48.1 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 |
| 82.5° | 37.8 | 37.2 | 36.6 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 |
| 85° | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 |
| 87.5° | 12.6 | 12.1 | 12.2 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| 90° | 30.3 | 28.5 | 30.3 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 |
| 92.5° | 82.6 | 70.8 | 62.9 | 57.0 | 56.3 | 53.2 | 54.0 | 52.5 |
| 95° | 248.2 | 190.4 | 150.6 | 129.7 | 117.4 | 109.9 | 107.0 | 107.9 |
| 97.5° | 579.0 | 473.8 | 371.3 | 302.9 | 257.6 | 234.3 | 220.5 | 212.5 |
| 100° | 864.7 | 747.3 | 617.5 | 502.9 | 424.3 | 383.6 | 356.1 | 339.1 |
| 102.5° | 1051.9 | 1025.3 | 930.4 | 809.0 | 723.6 | 654.1 | 619.8 | 596.7 |
| 105° | 1150.7 | 1257.8 | 1270.1 | 1238.8 | 1180.1 | 1121.4 | 1080.7 | 1067.4 |
| 107.5° | 1079.5 | 1240.7 | 1339.2 | 1385.0 | 1392.4 | 1389.2 | 1381.0 | 1363.4 |
| 110° | 1018.1 | 1187.6 | 1308.9 | 1386.6 | 1427.3 | 1445.3 | 1453.8 | 1452.9 |



TEST NUMBER: P331734-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 962.1 | 1124.8 | 1254.3 | 1343.4 | 1400.0 | 1430.1 | 1446.3 | 1451.3 |
| 115° | 893.2 | 1039.0 | 1163.0 | 1260.6 | 1327.9 | 1371.4 | 1396.0 | 1404.6 |
| 117.5° | 841.2 | 969.3 | 1081.8 | 1173.3 | 1241.9 | 1287.8 | 1313.9 | 1321.0 |
| 120° | 815.5 | 932.9 | 1033.3 | 1119.5 | 1185.8 | 1230.3 | 1257.8 | 1267.2 |
| 122.5° | 795.0 | 902.6 | 997.7 | 1075.5 | 1135.0 | 1178.8 | 1203.2 | 1211.1 |
| 125° | 765.2 | 862.8 | 946.2 | 1017.2 | 1072.1 | 1108.2 | 1131.8 | 1139.4 |
| 127.5° | 735.9 | 824.2 | 902.8 | 968.3 | 1016.3 | 1049.9 | 1070.4 | 1076.5 |
| 130° | 717.0 | 798.4 | 873.3 | 935.7 | 982.2 | 1014.4 | 1033.3 | 1040.9 |
| 132.5° | 698.8 | 774.2 | 842.9 | 901.6 | 947.3 | 979.5 | 996.9 | 1003.7 |
| 135° | 673.4 | 735.9 | 798.4 | 851.4 | 892.2 | 923.4 | 940.4 | 944.3 |
| 137.5° | 653.1 | 705.4 | 755.0 | 801.3 | 838.4 | 865.3 | 880.3 | 885.9 |
| 140° | 640.3 | 685.7 | 729.3 | 770.9 | 801.3 | 825.9 | 840.1 | 845.8 |
| 142.5° | 629.7 | 668.3 | 705.8 | 740.6 | 769.4 | 791.8 | 804.5 | 805.6 |
| 145° | 614.7 | 646.0 | 675.3 | 702.8 | 725.5 | 741.6 | 751.1 | 753.9 |
| 147.5° | 603.2 | 627.8 | 650.7 | 670.7 | 689.5 | 702.4 | 708.8 | 710.5 |
| 150° | 594.8 | 615.6 | 635.5 | 652.6 | 666.8 | 678.2 | 683.8 | 684.8 |
| 152.5° | 586.4 | 605.8 | 622.6 | 637.4 | 648.6 | 658.4 | 662.6 | 662.8 |
| 155° | 574.9 | 590.0 | 604.2 | 614.7 | 625.1 | 631.7 | 635.5 | 633.7 |
| 157.5° | 561.4 | 574.1 | 586.0 | 594.2 | 601.6 | 607.1 | 608.8 | 608.8 |
| 160° | 553.1 | 563.5 | 574.0 | 580.6 | 587.2 | 591.9 | 592.9 | 592.9 |
| 162.5° | 544.8 | 553.7 | 562.6 | 567.7 | 574.3 | 577.6 | 578.5 | 577.7 |
| 165° | 532.3 | 538.9 | 545.5 | 549.3 | 553.1 | 556.9 | 556.9 | 556.0 |
| 167.5° | 520.3 | 525.5 | 530.0 | 533.5 | 535.1 | 537.2 | 537.0 | 535.9 |
| 170° | 514.3 | 517.1 | 520.9 | 522.8 | 523.7 | 526.6 | 525.6 | 523.7 |
| 172.5° | 507.4 | 509.6 | 512.6 | 513.7 | 514.7 | 516.0 | 515.0 | 513.9 |
| 175° | 500.1 | 501.0 | 502.0 | 502.9 | 502.9 | 503.9 | 502.9 | 501.0 |
| 177.5° | 494.8 | 494.8 | 495.5 | 495.5 | 495.5 | 495.5 | 494.8 | 493.3 |
| 180° | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 |

(END OF REPORT)