

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: P331728-927

Luminaire Tested: **SA2XXRDIP-C865D925U927-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331728-927
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-C865D925U927-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5253.6 lumens
Efficiency: N/A
Efficacy: 86.8 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

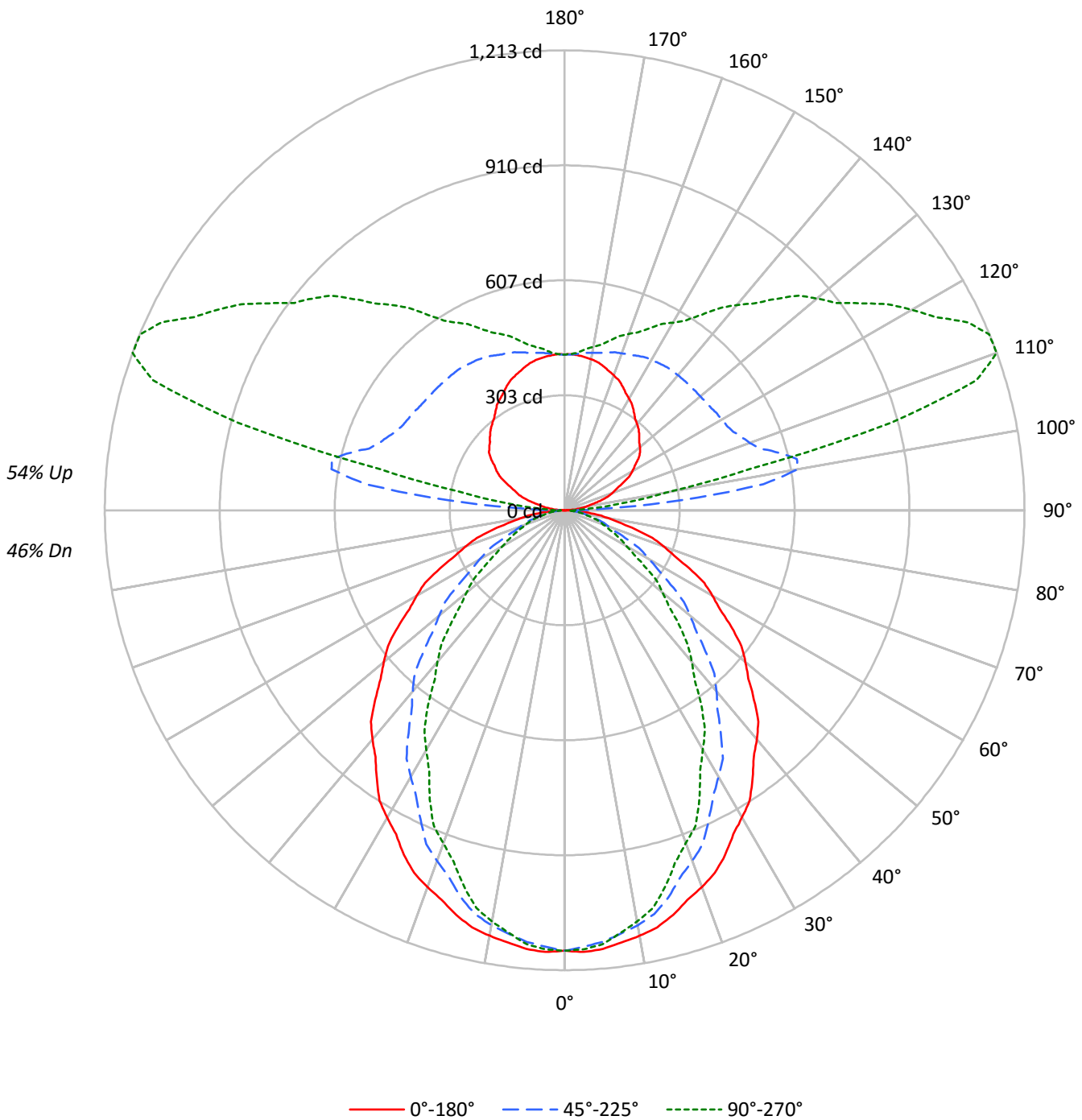
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331728-927

CATALOG NUMBER: SA2XXRDIP-C865D925U927-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331728-927

CATALOG NUMBER: SA2XXRDIP-C865D925U927-4F0-1E-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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 46 | | | | 46 |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 82 | 80 | 71 | 69 | 67 | 59 | 57 | 56 | 47 | 46 | 45 | | | | 39 | |
| 2 | 89 | 82 | 76 | 71 | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 52 | 49 | 47 | 42 | 40 | 38 | | | | 34 | |
| 3 | 81 | 72 | 65 | 60 | 74 | 67 | 61 | 56 | 56 | 52 | 48 | 46 | 43 | 40 | 37 | 35 | 33 | | | | 29 | |
| 4 | 75 | 64 | 57 | 51 | 68 | 59 | 53 | 48 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 31 | 29 | | | | 25 | |
| 5 | 69 | 57 | 50 | 44 | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 37 | 34 | 31 | 30 | 28 | 25 | | | | 22 | |
| 6 | 63 | 52 | 44 | 38 | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 23 | | | | 20 | |
| 7 | 59 | 47 | 39 | 34 | 54 | 43 | 37 | 32 | 37 | 32 | 28 | 31 | 27 | 24 | 25 | 23 | 20 | | | | 18 | |
| 8 | 54 | 42 | 35 | 30 | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 28 | 24 | 22 | 23 | 21 | 18 | | | | 16 | |
| 9 | 51 | 39 | 32 | 27 | 47 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 19 | 17 | | | | 14 | |
| 10 | 47 | 36 | 29 | 24 | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 18 | 20 | 17 | 15 | | | | 13 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18755 | 18755 | 18755 |
| 5° | 18827 | 18519 | 18621 |
| 10° | 18682 | 18216 | 18061 |
| 15° | 18467 | 17677 | 17167 |
| 20° | 18170 | 16905 | 16057 |
| 25° | 17865 | 16030 | 14982 |
| 30° | 17443 | 15129 | 13601 |
| 35° | 17030 | 14152 | 12390 |
| 40° | 16617 | 13139 | 10989 |
| 45° | 16130 | 12001 | 9720 |
| 50° | 15631 | 10854 | 8475 |
| 55° | 15122 | 9619 | 7279 |
| 60° | 14528 | 8315 | 6042 |
| 65° | 13857 | 6988 | 5501 |
| 70° | 13053 | 5755 | 5061 |
| 75° | 12071 | 5246 | 4722 |
| 80° | 10646 | 4695 | 4305 |
| 85° | 8373 | 3705 | 3705 |



TEST NUMBER: P331728-927

CATALOG NUMBER: SA2XXRDIP-C865D925U927-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.7 | 2.1 |
| 10°-20° | 298.5 | 5.7 |
| 20°-30° | 419.2 | 8.0 |
| 30°-40° | 457.1 | 8.7 |
| 40°-50° | 420.3 | 8.0 |
| 50°-60° | 330.1 | 6.3 |
| 60°-70° | 215.2 | 4.1 |
| 70°-80° | 111.0 | 2.1 |
| 80°-90° | 32.5 | 0.6 |
| 90°-100° | 164.4 | 3.1 |
| 100°-110° | 557.8 | 10.6 |
| 110°-120° | 592.6 | 11.3 |
| 120°-130° | 487.8 | 9.3 |
| 130°-140° | 391.8 | 7.5 |
| 140°-150° | 296.0 | 5.6 |
| 150°-160° | 208.1 | 4.0 |
| 160°-170° | 122.5 | 2.3 |
| 170°-180° | 39.9 | 0.8 |
| 0°-30° | 826.5 | 15.7 |
| 0°-40° | 1283.6 | 24.4 |
| 0°-60° | 2034.0 | 38.7 |
| 0°-90° | 2392.7 | 45.5 |
| 90°-120° | 1314.8 | 25.0 |
| 90°-150° | 2490.5 | 47.4 |
| 90°-180° | 2861.0 | 54.5 |
| 0°-180° | 5253.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1162 | 1162 | 1162 | 1162 | 1162 | |
| 5° | 1162 | 1156 | 1143 | 1151 | 1149 | 110 |
| 15° | 1105 | 1092 | 1058 | 1038 | 1027 | 311 |
| 25° | 1003 | 967 | 900 | 858 | 841 | 461 |
| 35° | 864 | 808 | 718 | 654 | 629 | 541 |
| 45° | 706 | 634 | 526 | 454 | 426 | 545 |
| 55° | 537 | 453 | 342 | 281 | 259 | 480 |
| 65° | 363 | 277 | 183 | 149 | 144 | 359 |
| 75° | 194 | 122 | 84 | 77 | 76 | 205 |
| 85° | 45 | 24 | 20 | 20 | 20 | 53 |
| 90° | 1 | 11 | 27 | 26 | 26 | 3 |
| 95° | 28 | 68 | 310 | 117 | 90 | 29 |
| 105° | 96 | 145 | 586 | 1047 | 891 | 102 |
| 115° | 170 | 215 | 490 | 1012 | 1172 | 169 |
| 125° | 237 | 281 | 471 | 819 | 951 | 211 |
| 135° | 278 | 332 | 466 | 689 | 788 | 215 |
| 145° | 318 | 365 | 463 | 575 | 629 | 199 |
| 155° | 361 | 390 | 450 | 509 | 529 | 166 |
| 165° | 394 | 406 | 431 | 457 | 464 | 111 |
| 175° | 410 | 411 | 414 | 420 | 418 | 39 |
| 180° | 411 | 411 | 411 | 411 | 411 | |



TEST NUMBER: P331728-927

CATALOG NUMBER: SA2XXRDIP-C865D925U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 |
| 2.5° | 1165.8 | 1164.8 | 1163.9 | 1162.9 | 1162.1 | 1160.5 | 1158.5 | 1156.4 | 1154.4 | 1152.3 | 1154.2 |
| 5° | 1161.6 | 1160.4 | 1159.2 | 1158.0 | 1156.9 | 1154.8 | 1151.8 | 1148.7 | 1145.7 | 1142.6 | 1144.7 |
| 7.5° | 1149.5 | 1148.1 | 1146.7 | 1145.3 | 1143.8 | 1141.3 | 1137.7 | 1134.2 | 1130.6 | 1127.0 | 1127.7 |
| 10° | 1139.5 | 1137.8 | 1136.2 | 1134.6 | 1132.9 | 1129.8 | 1125.1 | 1120.5 | 1115.8 | 1111.1 | 1110.4 |
| 12.5° | 1126.9 | 1124.8 | 1122.8 | 1120.9 | 1118.8 | 1114.8 | 1108.8 | 1102.9 | 1096.9 | 1090.9 | 1089.6 |
| 15° | 1104.8 | 1102.2 | 1099.6 | 1097.1 | 1094.5 | 1089.3 | 1081.3 | 1073.4 | 1065.4 | 1057.5 | 1053.0 |
| 17.5° | 1077.7 | 1073.7 | 1069.8 | 1065.9 | 1062.0 | 1054.9 | 1044.7 | 1034.5 | 1024.4 | 1014.2 | 1008.9 |
| 20° | 1057.5 | 1052.8 | 1048.1 | 1043.5 | 1038.8 | 1030.6 | 1018.9 | 1007.3 | 995.6 | 983.9 | 978.0 |
| 22.5° | 1035.6 | 1030.4 | 1025.2 | 1019.9 | 1014.7 | 1005.5 | 992.3 | 979.1 | 966.0 | 952.8 | 945.2 |
| 25° | 1002.8 | 995.4 | 987.9 | 980.4 | 973.0 | 961.5 | 946.0 | 930.7 | 915.2 | 899.8 | 890.3 |
| 27.5° | 963.3 | 955.1 | 947.1 | 938.9 | 930.8 | 918.1 | 900.6 | 883.3 | 865.9 | 848.5 | 837.3 |
| 30° | 935.6 | 926.7 | 917.8 | 908.9 | 900.1 | 886.3 | 867.6 | 848.9 | 830.2 | 811.5 | 799.6 |
| 32.5° | 908.6 | 898.3 | 887.9 | 877.5 | 867.1 | 852.5 | 833.4 | 814.3 | 795.3 | 776.2 | 762.6 |
| 35° | 864.0 | 852.2 | 840.3 | 828.3 | 816.4 | 800.2 | 779.6 | 759.1 | 738.6 | 718.0 | 703.2 |
| 37.5° | 819.5 | 806.4 | 793.4 | 780.2 | 767.1 | 749.6 | 727.8 | 705.8 | 684.0 | 662.0 | 645.8 |
| 40° | 788.4 | 774.4 | 760.3 | 746.3 | 732.3 | 714.0 | 691.3 | 668.7 | 646.0 | 623.4 | 606.7 |
| 42.5° | 756.5 | 741.6 | 726.9 | 712.2 | 697.4 | 678.3 | 654.9 | 631.4 | 608.1 | 584.6 | 567.5 |
| 45° | 706.4 | 690.7 | 675.1 | 659.4 | 643.8 | 623.7 | 599.2 | 574.6 | 550.1 | 525.6 | 509.0 |
| 47.5° | 657.6 | 641.0 | 624.5 | 607.8 | 591.3 | 570.3 | 545.0 | 519.7 | 494.3 | 469.1 | 452.6 |
| 50° | 622.3 | 605.7 | 589.1 | 572.5 | 556.0 | 534.8 | 509.1 | 483.4 | 457.7 | 432.1 | 415.9 |
| 52.5° | 587.8 | 570.5 | 553.2 | 535.8 | 518.5 | 497.3 | 472.1 | 446.9 | 421.8 | 396.7 | 381.1 |
| 55° | 537.2 | 519.0 | 500.7 | 482.5 | 464.3 | 442.5 | 417.3 | 392.1 | 366.9 | 341.7 | 327.6 |
| 57.5° | 485.2 | 466.5 | 447.8 | 429.1 | 410.5 | 389.0 | 364.7 | 340.5 | 316.2 | 292.0 | 279.2 |
| 60° | 449.9 | 431.2 | 412.6 | 393.9 | 375.2 | 353.8 | 329.7 | 305.6 | 281.6 | 257.5 | 245.7 |
| 62.5° | 415.4 | 396.7 | 378.0 | 359.3 | 340.6 | 319.9 | 296.9 | 274.0 | 251.0 | 228.1 | 216.7 |
| 65° | 362.7 | 343.7 | 324.8 | 305.9 | 287.0 | 267.0 | 246.0 | 225.0 | 203.9 | 182.9 | 175.0 |
| 67.5° | 311.8 | 293.0 | 274.3 | 255.4 | 236.6 | 217.8 | 198.9 | 180.0 | 161.1 | 142.1 | 138.5 |
| 70° | 276.5 | 258.3 | 240.0 | 221.8 | 203.6 | 186.4 | 170.3 | 154.2 | 138.1 | 121.9 | 119.6 |
| 72.5° | 242.8 | 225.4 | 207.9 | 190.4 | 172.9 | 157.7 | 144.8 | 131.8 | 118.9 | 106.0 | 104.0 |
| 75° | 193.5 | 177.1 | 160.7 | 144.3 | 128.0 | 115.9 | 107.9 | 100.0 | 92.1 | 84.1 | 82.5 |
| 77.5° | 144.9 | 130.5 | 116.1 | 101.8 | 87.5 | 78.4 | 74.5 | 70.7 | 66.9 | 63.1 | 62.1 |
| 80° | 114.5 | 102.7 | 90.8 | 78.8 | 66.9 | 59.8 | 57.4 | 55.1 | 52.8 | 50.5 | 49.5 |
| 82.5° | 86.8 | 77.6 | 68.2 | 58.9 | 49.7 | 44.2 | 42.6 | 41.0 | 39.5 | 37.9 | 37.3 |
| 85° | 45.2 | 40.3 | 35.4 | 30.5 | 25.6 | 22.8 | 22.1 | 21.4 | 20.7 | 20.0 | 20.0 |
| 87.5° | 13.6 | 12.6 | 11.7 | 10.5 | 9.3 | 9.1 | 9.9 | 11.0 | 12.0 | 12.1 | 11.7 |
| 90° | 0.8 | 3.2 | 6.3 | 7.9 | 9.5 | 11.9 | 15.8 | 21.3 | 26.1 | 26.9 | 26.1 |
| 92.5° | 9.7 | 13.9 | 19.6 | 23.1 | 28.4 | 35.9 | 53.8 | 78.9 | 101.3 | 102.7 | 86.8 |
| 95° | 27.6 | 30.8 | 38.7 | 45.9 | 58.5 | 77.5 | 113.8 | 182.6 | 274.3 | 309.9 | 271.2 |
| 97.5° | 45.1 | 49.4 | 57.8 | 68.4 | 83.0 | 104.5 | 150.2 | 246.1 | 398.5 | 529.1 | 555.0 |
| 100° | 60.8 | 63.2 | 70.3 | 83.0 | 98.9 | 121.0 | 162.9 | 259.4 | 430.1 | 624.6 | 738.5 |
| 102.5° | 75.4 | 77.2 | 84.3 | 97.0 | 113.4 | 135.5 | 174.3 | 260.0 | 418.1 | 627.7 | 806.8 |
| 105° | 96.5 | 99.7 | 105.1 | 117.0 | 134.4 | 156.5 | 193.7 | 264.0 | 394.5 | 585.8 | 796.1 |
| 107.5° | 119.2 | 121.8 | 127.1 | 138.1 | 155.3 | 177.6 | 213.7 | 275.0 | 382.8 | 541.0 | 726.7 |
| 110° | 134.4 | 137.6 | 142.3 | 152.6 | 169.2 | 192.1 | 226.9 | 283.8 | 380.3 | 519.4 | 683.1 |



TEST NUMBER: P331728-927

CATALOG NUMBER: SA2XXRDIP-C865D925U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 148.3 | 151.5 | 156.9 | 166.5 | 182.4 | 206.0 | 239.6 | 293.3 | 380.9 | 505.5 | 652.8 |
| 115° | 170.0 | 174.0 | 178.7 | 188.1 | 204.0 | 225.3 | 259.4 | 307.5 | 384.2 | 490.2 | 615.1 |
| 117.5° | 192.4 | 195.6 | 200.3 | 208.7 | 223.9 | 246.1 | 277.5 | 322.7 | 389.9 | 482.8 | 591.4 |
| 120° | 206.4 | 209.5 | 214.3 | 221.3 | 237.2 | 259.4 | 290.2 | 332.9 | 393.7 | 478.3 | 578.8 |
| 122.5° | 219.7 | 222.1 | 226.9 | 234.6 | 250.5 | 273.2 | 302.1 | 341.7 | 398.2 | 475.8 | 568.0 |
| 125° | 237.2 | 239.6 | 244.3 | 253.8 | 269.6 | 291.8 | 320.2 | 355.8 | 404.8 | 471.2 | 552.6 |
| 127.5° | 251.1 | 254.3 | 260.9 | 271.3 | 286.5 | 309.3 | 337.0 | 368.9 | 411.6 | 468.5 | 538.4 |
| 130° | 259.4 | 262.4 | 270.4 | 281.5 | 297.3 | 319.4 | 347.1 | 377.2 | 416.7 | 467.2 | 528.9 |
| 132.5° | 266.9 | 270.7 | 279.2 | 291.0 | 307.4 | 329.5 | 355.9 | 385.3 | 421.7 | 466.6 | 521.3 |
| 135° | 278.3 | 281.5 | 291.0 | 302.8 | 321.0 | 343.1 | 368.4 | 396.1 | 427.7 | 465.6 | 510.7 |
| 137.5° | 289.1 | 292.9 | 302.3 | 315.0 | 333.0 | 353.6 | 378.6 | 404.3 | 433.1 | 465.5 | 503.3 |
| 140° | 297.3 | 300.5 | 309.9 | 322.6 | 340.0 | 360.5 | 384.2 | 408.8 | 435.6 | 464.9 | 498.9 |
| 142.5° | 305.5 | 308.0 | 316.9 | 329.5 | 346.3 | 365.6 | 388.6 | 412.6 | 437.5 | 464.9 | 494.5 |
| 145° | 317.8 | 321.0 | 328.9 | 340.8 | 356.6 | 374.0 | 395.3 | 417.5 | 439.6 | 463.3 | 488.6 |
| 147.5° | 331.1 | 333.5 | 341.0 | 352.0 | 365.1 | 380.6 | 400.7 | 420.2 | 440.2 | 460.5 | 482.6 |
| 150° | 340.0 | 342.3 | 348.6 | 358.9 | 370.8 | 385.0 | 403.2 | 421.4 | 439.6 | 458.6 | 477.5 |
| 152.5° | 348.8 | 349.9 | 356.2 | 365.3 | 376.5 | 389.4 | 405.8 | 422.0 | 438.3 | 455.4 | 473.1 |
| 155° | 361.3 | 362.1 | 366.9 | 375.6 | 384.2 | 396.1 | 409.6 | 422.9 | 436.4 | 449.9 | 464.9 |
| 157.5° | 371.8 | 372.6 | 376.4 | 383.9 | 390.9 | 400.8 | 412.3 | 422.9 | 432.8 | 444.2 | 457.2 |
| 160° | 378.7 | 379.5 | 382.6 | 389.0 | 395.3 | 404.0 | 413.5 | 422.9 | 430.9 | 440.4 | 451.5 |
| 162.5° | 385.6 | 385.2 | 388.3 | 393.4 | 399.1 | 405.9 | 414.2 | 422.3 | 429.0 | 437.2 | 446.4 |
| 165° | 393.7 | 392.9 | 394.5 | 399.3 | 403.2 | 408.0 | 415.1 | 420.6 | 425.3 | 430.9 | 438.0 |
| 167.5° | 400.4 | 399.4 | 400.8 | 403.9 | 406.7 | 409.7 | 414.9 | 419.5 | 421.7 | 425.3 | 429.8 |
| 170° | 404.8 | 403.2 | 404.0 | 406.4 | 408.0 | 410.4 | 414.3 | 418.3 | 419.9 | 422.2 | 425.3 |
| 172.5° | 407.3 | 406.4 | 405.9 | 408.3 | 409.2 | 411.0 | 413.7 | 416.4 | 417.3 | 418.4 | 421.0 |
| 175° | 410.4 | 409.6 | 408.8 | 410.4 | 410.4 | 411.1 | 412.7 | 414.3 | 413.5 | 414.3 | 415.1 |
| 177.5° | 411.8 | 410.5 | 409.9 | 411.1 | 411.1 | 411.1 | 411.8 | 413.0 | 411.8 | 411.1 | 411.8 |
| 180° | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 |



TEST NUMBER: P331728-927

CATALOG NUMBER: SA2XXRDIP-C865D925U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 |
| 2.5° | 1156.0 | 1157.9 | 1159.8 | 1160.5 | 1160.2 | 1159.8 | 1159.4 | 1159.0 |
| 5° | 1146.8 | 1148.9 | 1151.0 | 1151.8 | 1151.0 | 1150.3 | 1149.6 | 1148.9 |
| 7.5° | 1128.3 | 1128.9 | 1129.5 | 1129.2 | 1128.0 | 1126.8 | 1125.5 | 1124.3 |
| 10° | 1109.7 | 1109.0 | 1108.3 | 1107.2 | 1105.8 | 1104.5 | 1103.0 | 1101.6 |
| 12.5° | 1088.4 | 1087.1 | 1085.8 | 1084.1 | 1081.7 | 1079.4 | 1077.1 | 1074.8 |
| 15° | 1048.6 | 1044.2 | 1039.7 | 1036.3 | 1034.0 | 1031.7 | 1029.4 | 1027.0 |
| 17.5° | 1003.6 | 998.3 | 993.1 | 988.4 | 984.4 | 980.4 | 976.4 | 972.3 |
| 20° | 972.2 | 966.4 | 960.5 | 955.1 | 949.9 | 944.8 | 939.6 | 934.5 |
| 22.5° | 937.8 | 930.3 | 922.7 | 917.0 | 913.2 | 909.3 | 905.5 | 901.7 |
| 25° | 880.7 | 871.1 | 861.5 | 854.9 | 851.4 | 848.0 | 844.5 | 841.0 |
| 27.5° | 826.2 | 815.0 | 803.8 | 795.5 | 790.0 | 784.3 | 778.8 | 773.2 |
| 30° | 787.7 | 775.8 | 763.8 | 754.7 | 748.5 | 742.1 | 735.9 | 729.5 |
| 32.5° | 749.0 | 735.4 | 721.8 | 712.0 | 706.2 | 700.2 | 694.3 | 688.3 |
| 35° | 688.5 | 673.8 | 659.1 | 649.2 | 644.0 | 638.9 | 633.7 | 628.6 |
| 37.5° | 629.6 | 613.4 | 597.2 | 586.1 | 580.3 | 574.3 | 568.5 | 562.6 |
| 40° | 590.2 | 573.6 | 557.0 | 545.7 | 539.6 | 533.5 | 527.4 | 521.4 |
| 42.5° | 550.4 | 533.2 | 516.1 | 504.5 | 498.7 | 492.8 | 486.9 | 481.0 |
| 45° | 492.4 | 475.9 | 459.2 | 448.1 | 442.5 | 437.0 | 431.3 | 425.7 |
| 47.5° | 436.0 | 419.5 | 403.1 | 392.3 | 387.2 | 382.1 | 377.0 | 371.9 |
| 50° | 399.8 | 383.7 | 367.6 | 357.0 | 352.1 | 347.2 | 342.3 | 337.4 |
| 52.5° | 365.6 | 350.1 | 334.5 | 324.5 | 319.9 | 315.4 | 310.9 | 306.3 |
| 55° | 313.6 | 299.6 | 285.6 | 276.3 | 271.9 | 267.4 | 263.0 | 258.6 |
| 57.5° | 266.3 | 253.5 | 240.7 | 232.3 | 228.6 | 224.8 | 221.1 | 217.4 |
| 60° | 233.7 | 221.8 | 209.8 | 202.1 | 198.3 | 194.6 | 190.8 | 187.1 |
| 62.5° | 205.4 | 194.1 | 182.7 | 175.9 | 173.6 | 171.4 | 169.1 | 166.9 |
| 65° | 167.0 | 159.1 | 151.1 | 146.8 | 146.1 | 145.4 | 144.7 | 144.0 |
| 67.5° | 134.8 | 131.2 | 127.5 | 125.3 | 124.6 | 123.8 | 123.1 | 122.4 |
| 70° | 117.2 | 114.9 | 112.6 | 111.0 | 110.0 | 109.1 | 108.1 | 107.2 |
| 72.5° | 102.0 | 100.1 | 98.1 | 96.9 | 96.3 | 95.7 | 95.1 | 94.6 |
| 75° | 80.8 | 79.2 | 77.6 | 76.6 | 76.4 | 76.1 | 75.9 | 75.7 |
| 77.5° | 61.2 | 60.3 | 59.3 | 58.7 | 58.3 | 57.9 | 57.6 | 57.2 |
| 80° | 48.6 | 47.7 | 46.7 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 |
| 82.5° | 36.8 | 36.1 | 35.6 | 35.3 | 35.3 | 35.3 | 35.3 | 35.3 |
| 85° | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| 87.5° | 11.4 | 10.9 | 11.0 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 90° | 25.3 | 23.7 | 25.3 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 |
| 92.5° | 68.9 | 59.2 | 52.5 | 47.6 | 47.0 | 44.4 | 45.1 | 43.8 |
| 95° | 207.2 | 158.9 | 125.7 | 108.3 | 98.1 | 91.7 | 89.4 | 90.2 |
| 97.5° | 483.4 | 395.5 | 309.9 | 252.9 | 215.1 | 195.6 | 184.0 | 177.4 |
| 100° | 721.8 | 623.8 | 515.5 | 419.9 | 354.2 | 320.2 | 297.3 | 283.0 |
| 102.5° | 878.1 | 856.0 | 776.7 | 675.3 | 604.0 | 546.0 | 517.4 | 498.1 |
| 105° | 960.6 | 1050.0 | 1060.3 | 1034.1 | 985.1 | 936.1 | 902.1 | 891.0 |
| 107.5° | 901.2 | 1035.7 | 1117.9 | 1156.2 | 1162.4 | 1159.7 | 1152.9 | 1138.2 |
| 110° | 849.9 | 991.4 | 1092.7 | 1157.5 | 1191.4 | 1206.5 | 1213.6 | 1212.8 |



TEST NUMBER: P331728-927

CATALOG NUMBER: SA2XXRDIP-C865D925U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 803.1 | 939.0 | 1047.1 | 1121.4 | 1168.7 | 1193.8 | 1207.3 | 1211.6 |
| 115° | 745.5 | 867.3 | 970.9 | 1052.3 | 1108.4 | 1144.8 | 1165.4 | 1172.5 |
| 117.5° | 702.2 | 809.1 | 903.0 | 979.5 | 1036.6 | 1075.1 | 1096.8 | 1102.7 |
| 120° | 680.7 | 778.8 | 862.5 | 934.5 | 989.8 | 1027.0 | 1050.0 | 1057.9 |
| 122.5° | 663.6 | 753.4 | 832.8 | 897.9 | 947.5 | 984.0 | 1004.4 | 1011.1 |
| 125° | 638.8 | 720.3 | 789.8 | 849.1 | 895.0 | 925.0 | 944.8 | 951.1 |
| 127.5° | 614.3 | 688.0 | 753.6 | 808.3 | 848.3 | 876.5 | 893.6 | 898.7 |
| 130° | 598.5 | 666.5 | 729.0 | 781.2 | 819.9 | 846.8 | 862.5 | 868.9 |
| 132.5° | 583.3 | 646.3 | 703.6 | 752.7 | 790.8 | 817.7 | 832.2 | 837.9 |
| 135° | 562.1 | 614.3 | 666.5 | 710.7 | 744.7 | 770.9 | 785.1 | 788.2 |
| 137.5° | 545.2 | 588.8 | 630.3 | 668.8 | 699.9 | 722.3 | 734.8 | 739.6 |
| 140° | 534.5 | 572.4 | 608.8 | 643.6 | 668.8 | 689.4 | 701.3 | 706.0 |
| 142.5° | 525.6 | 557.9 | 589.1 | 618.3 | 642.3 | 661.0 | 671.5 | 672.5 |
| 145° | 513.1 | 539.2 | 563.7 | 586.6 | 605.6 | 619.1 | 626.9 | 629.3 |
| 147.5° | 503.4 | 524.0 | 543.1 | 559.9 | 575.6 | 586.3 | 591.7 | 593.1 |
| 150° | 496.5 | 513.9 | 530.5 | 544.7 | 556.6 | 566.1 | 570.8 | 571.6 |
| 152.5° | 489.6 | 505.6 | 519.8 | 532.1 | 541.4 | 549.6 | 553.1 | 553.3 |
| 155° | 479.9 | 492.6 | 504.4 | 513.1 | 521.8 | 527.4 | 530.5 | 528.9 |
| 157.5° | 468.7 | 479.3 | 489.3 | 496.1 | 502.2 | 506.8 | 508.2 | 508.2 |
| 160° | 461.7 | 470.4 | 479.1 | 484.7 | 490.2 | 494.2 | 495.0 | 495.0 |
| 162.5° | 454.8 | 462.2 | 469.6 | 473.9 | 479.4 | 482.1 | 482.9 | 482.3 |
| 165° | 444.3 | 449.9 | 455.4 | 458.6 | 461.7 | 464.9 | 464.9 | 464.1 |
| 167.5° | 434.4 | 438.6 | 442.4 | 445.3 | 446.7 | 448.5 | 448.3 | 447.3 |
| 170° | 429.3 | 431.7 | 434.8 | 436.4 | 437.2 | 439.6 | 438.8 | 437.2 |
| 172.5° | 423.6 | 425.3 | 427.9 | 428.8 | 429.6 | 430.7 | 429.9 | 429.0 |
| 175° | 417.5 | 418.3 | 419.1 | 419.9 | 419.9 | 420.6 | 419.9 | 418.3 |
| 177.5° | 413.0 | 413.0 | 413.7 | 413.7 | 413.7 | 413.7 | 413.0 | 411.8 |
| 180° | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 |

(END OF REPORT)