

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: P331680-830

Luminaire Tested: **S122RDIP-S675D330U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331680-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S675D330U830-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3393.4 lumens
Efficiency: N/A
Efficacy: 97.0 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: Semi-Direct

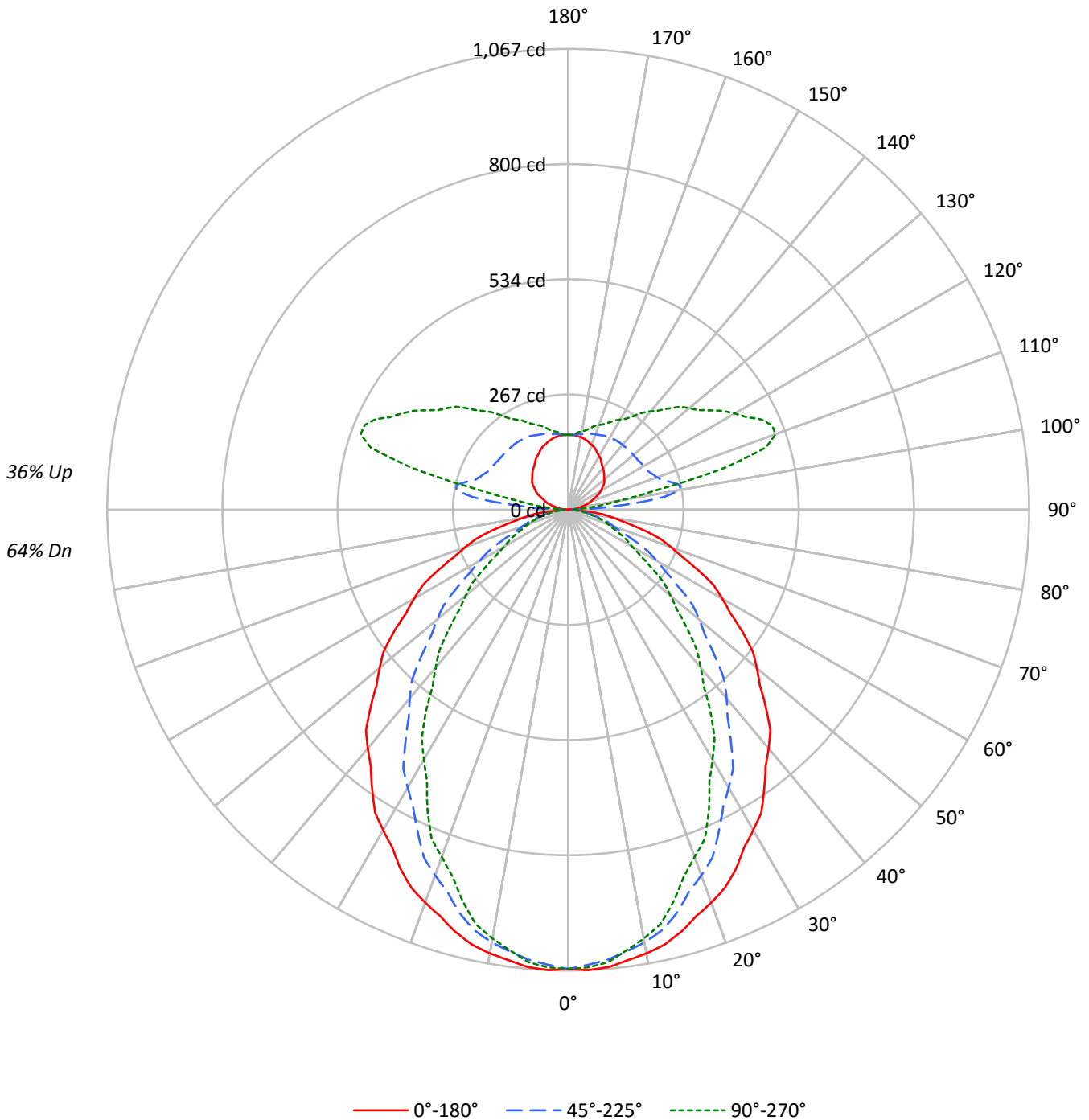
Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331680-830

CATALOG NUMBER: S122RDIP-S675D330U830-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331680-830

CATALOG NUMBER: S122RDIP-S675D330U830-4F0-1E-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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 80 | 80 | 80 | 69 | 69 | 69 | 64 | | | | |
| 1 | 102 | 97 | 94 | 90 | 95 | 92 | 88 | 86 | 81 | 79 | 76 | 71 | 70 | 68 | 62 | 61 | 60 | 56 | | | | |
| 2 | 93 | 86 | 80 | 75 | 87 | 81 | 76 | 71 | 72 | 68 | 64 | 63 | 60 | 58 | 56 | 53 | 51 | 48 | | | | |
| 3 | 85 | 76 | 69 | 63 | 80 | 72 | 65 | 60 | 64 | 59 | 55 | 57 | 53 | 50 | 50 | 47 | 44 | 41 | | | | |
| 4 | 78 | 68 | 60 | 54 | 74 | 64 | 57 | 52 | 57 | 52 | 47 | 51 | 47 | 43 | 45 | 42 | 39 | 36 | | | | |
| 5 | 72 | 61 | 53 | 47 | 68 | 58 | 50 | 45 | 52 | 46 | 41 | 46 | 41 | 38 | 41 | 37 | 34 | 31 | | | | |
| 6 | 67 | 55 | 47 | 41 | 63 | 52 | 45 | 40 | 47 | 41 | 36 | 42 | 37 | 33 | 37 | 33 | 31 | 28 | | | | |
| 7 | 62 | 50 | 42 | 36 | 58 | 47 | 40 | 35 | 43 | 37 | 32 | 38 | 34 | 30 | 34 | 30 | 27 | 25 | | | | |
| 8 | 58 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 39 | 33 | 29 | 35 | 30 | 27 | 32 | 28 | 25 | 23 | | | | |
| 9 | 54 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 36 | 30 | 26 | 33 | 28 | 24 | 29 | 25 | 23 | 21 | | | | |
| 10 | 51 | 39 | 31 | 26 | 48 | 37 | 30 | 26 | 33 | 28 | 24 | 30 | 26 | 22 | 27 | 23 | 21 | 19 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17166 | 17166 | 17166 |
| 5° | 17232 | 16951 | 17045 |
| 10° | 17100 | 16674 | 16531 |
| 15° | 16904 | 16181 | 15714 |
| 20° | 16632 | 15474 | 14698 |
| 25° | 16352 | 14672 | 13714 |
| 30° | 15966 | 13848 | 12450 |
| 35° | 15589 | 12952 | 11341 |
| 40° | 15209 | 12026 | 10058 |
| 45° | 14764 | 10985 | 8896 |
| 50° | 14307 | 9934 | 7759 |
| 55° | 13841 | 8802 | 6663 |
| 60° | 13298 | 7611 | 5532 |
| 65° | 12684 | 6395 | 5039 |
| 70° | 11948 | 5268 | 4631 |
| 75° | 11042 | 4803 | 4323 |
| 80° | 9754 | 4296 | 3933 |
| 85° | 7669 | 3390 | 3390 |



TEST NUMBER: P331680-830

CATALOG NUMBER: S122RDIP-S675D330U830-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.5 | 2.9 |
| 10°-20° | 273.3 | 8.1 |
| 20°-30° | 383.7 | 11.3 |
| 30°-40° | 418.4 | 12.3 |
| 40°-50° | 384.7 | 11.3 |
| 50°-60° | 302.2 | 8.9 |
| 60°-70° | 197.0 | 5.8 |
| 70°-80° | 101.6 | 3.0 |
| 80°-90° | 27.9 | 0.8 |
| 90°-100° | 69.2 | 2.0 |
| 100°-110° | 235.0 | 6.9 |
| 110°-120° | 249.6 | 7.4 |
| 120°-130° | 205.5 | 6.1 |
| 130°-140° | 165.0 | 4.9 |
| 140°-150° | 124.7 | 3.7 |
| 150°-160° | 87.6 | 2.6 |
| 160°-170° | 51.6 | 1.5 |
| 170°-180° | 16.8 | 0.5 |
| 0°-30° | 756.5 | 22.3 |
| 0°-40° | 1174.9 | 34.6 |
| 0°-60° | 1861.8 | 54.9 |
| 0°-90° | 2188.3 | 64.5 |
| 90°-120° | 553.8 | 16.3 |
| 90°-150° | 1049.0 | 30.9 |
| 90°-180° | 1205.0 | 35.5 |
| 0°-180° | 3393.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1063 | 1063 | 1063 | 1063 | 1063 | |
| 5° | 1063 | 1058 | 1046 | 1054 | 1052 | 101 |
| 15° | 1011 | 999 | 968 | 950 | 940 | 285 |
| 25° | 918 | 885 | 824 | 786 | 770 | 422 |
| 35° | 791 | 740 | 657 | 599 | 575 | 495 |
| 45° | 647 | 580 | 481 | 415 | 390 | 499 |
| 55° | 492 | 415 | 313 | 257 | 237 | 439 |
| 65° | 332 | 254 | 167 | 136 | 132 | 329 |
| 75° | 177 | 112 | 77 | 71 | 69 | 187 |
| 85° | 41 | 22 | 18 | 18 | 18 | 49 |
| 90° | 0 | 4 | 11 | 11 | 11 | 2 |
| 95° | 12 | 29 | 130 | 49 | 38 | 12 |
| 105° | 41 | 61 | 247 | 441 | 375 | 43 |
| 115° | 72 | 90 | 206 | 426 | 494 | 71 |
| 125° | 100 | 118 | 198 | 345 | 401 | 89 |
| 135° | 117 | 140 | 196 | 290 | 332 | 91 |
| 145° | 134 | 154 | 195 | 242 | 265 | 84 |
| 155° | 152 | 164 | 190 | 214 | 223 | 70 |
| 165° | 166 | 171 | 182 | 192 | 196 | 47 |
| 175° | 173 | 173 | 174 | 177 | 176 | 16 |
| 180° | 173 | 173 | 173 | 173 | 173 | |



TEST NUMBER: P331680-830

CATALOG NUMBER: S122RDIP-S675D330U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 |
| 2.5° | 1067.1 | 1066.2 | 1065.4 | 1064.5 | 1063.7 | 1062.2 | 1060.4 | 1058.5 | 1056.7 | 1054.8 | 1056.5 |
| 5° | 1063.2 | 1062.2 | 1061.1 | 1060.0 | 1058.9 | 1057.1 | 1054.2 | 1051.5 | 1048.7 | 1045.9 | 1047.8 |
| 7.5° | 1052.3 | 1050.9 | 1049.6 | 1048.3 | 1047.0 | 1044.6 | 1041.4 | 1038.2 | 1034.9 | 1031.7 | 1032.2 |
| 10° | 1043.0 | 1041.5 | 1040.0 | 1038.5 | 1037.0 | 1034.2 | 1029.8 | 1025.6 | 1021.3 | 1017.0 | 1016.4 |
| 12.5° | 1031.4 | 1029.6 | 1027.7 | 1026.0 | 1024.1 | 1020.5 | 1015.0 | 1009.6 | 1004.0 | 998.5 | 997.4 |
| 15° | 1011.3 | 1008.9 | 1006.5 | 1004.2 | 1001.8 | 997.0 | 989.8 | 982.5 | 975.2 | 968.0 | 963.9 |
| 17.5° | 986.5 | 982.9 | 979.3 | 975.6 | 972.0 | 965.6 | 956.3 | 947.0 | 937.6 | 928.3 | 923.5 |
| 20° | 968.0 | 963.7 | 959.4 | 955.2 | 950.8 | 943.4 | 932.6 | 922.0 | 911.3 | 900.6 | 895.2 |
| 22.5° | 947.9 | 943.2 | 938.4 | 933.6 | 928.8 | 920.4 | 908.3 | 896.3 | 884.2 | 872.1 | 865.3 |
| 25° | 917.9 | 911.1 | 904.3 | 897.4 | 890.6 | 880.1 | 866.0 | 851.9 | 837.7 | 823.6 | 814.8 |
| 27.5° | 881.7 | 874.3 | 866.9 | 859.4 | 852.0 | 840.3 | 824.4 | 808.5 | 792.6 | 776.7 | 766.5 |
| 30° | 856.4 | 848.2 | 840.1 | 832.0 | 823.9 | 811.2 | 794.1 | 777.0 | 759.9 | 742.8 | 731.9 |
| 32.5° | 831.7 | 822.2 | 812.8 | 803.2 | 793.7 | 780.2 | 762.8 | 745.4 | 727.9 | 710.5 | 698.0 |
| 35° | 790.9 | 780.0 | 769.1 | 758.2 | 747.3 | 732.4 | 713.6 | 694.8 | 676.0 | 657.1 | 643.7 |
| 37.5° | 750.2 | 738.1 | 726.1 | 714.2 | 702.2 | 686.2 | 666.2 | 646.1 | 626.0 | 606.0 | 591.2 |
| 40° | 721.6 | 708.8 | 696.0 | 683.2 | 670.3 | 653.6 | 632.8 | 612.1 | 591.4 | 570.6 | 555.4 |
| 42.5° | 692.4 | 678.9 | 665.3 | 651.9 | 638.4 | 620.9 | 599.5 | 578.1 | 556.6 | 535.2 | 519.4 |
| 45° | 646.6 | 632.3 | 617.9 | 603.6 | 589.3 | 570.9 | 548.5 | 526.0 | 503.5 | 481.1 | 465.9 |
| 47.5° | 601.9 | 586.7 | 571.6 | 556.4 | 541.2 | 522.1 | 498.9 | 475.7 | 452.5 | 429.3 | 414.2 |
| 50° | 569.6 | 554.4 | 539.2 | 524.1 | 508.9 | 489.6 | 466.0 | 442.5 | 419.0 | 395.5 | 380.7 |
| 52.5° | 538.1 | 522.2 | 506.3 | 490.5 | 474.6 | 455.2 | 432.2 | 409.2 | 386.2 | 363.2 | 348.9 |
| 55° | 491.7 | 475.0 | 458.4 | 441.7 | 425.0 | 405.1 | 382.0 | 358.9 | 335.8 | 312.7 | 299.9 |
| 57.5° | 444.1 | 427.1 | 409.9 | 392.9 | 375.7 | 356.1 | 333.8 | 311.7 | 289.5 | 267.3 | 255.5 |
| 60° | 411.8 | 394.7 | 377.6 | 360.5 | 343.4 | 323.9 | 301.8 | 279.7 | 257.8 | 235.7 | 224.8 |
| 62.5° | 380.2 | 363.2 | 346.0 | 328.9 | 311.8 | 292.8 | 271.8 | 250.8 | 229.8 | 208.8 | 198.4 |
| 65° | 332.0 | 314.6 | 297.3 | 280.0 | 262.7 | 244.4 | 225.2 | 205.9 | 186.6 | 167.4 | 160.1 |
| 67.5° | 285.4 | 268.2 | 251.0 | 233.8 | 216.6 | 199.3 | 182.0 | 164.8 | 147.4 | 130.1 | 126.8 |
| 70° | 253.1 | 236.4 | 219.7 | 203.0 | 186.3 | 170.6 | 155.9 | 141.1 | 126.4 | 111.6 | 109.4 |
| 72.5° | 222.3 | 206.2 | 190.3 | 174.3 | 158.3 | 144.4 | 132.5 | 120.6 | 108.9 | 97.0 | 95.2 |
| 75° | 177.0 | 162.1 | 147.1 | 132.1 | 117.2 | 106.0 | 98.8 | 91.5 | 84.3 | 77.0 | 75.5 |
| 77.5° | 132.6 | 119.4 | 106.3 | 93.2 | 80.1 | 71.7 | 68.2 | 64.8 | 61.3 | 57.8 | 56.8 |
| 80° | 104.9 | 94.0 | 83.0 | 72.2 | 61.3 | 54.8 | 52.6 | 50.4 | 48.4 | 46.2 | 45.3 |
| 82.5° | 79.5 | 71.0 | 62.5 | 53.9 | 45.4 | 40.4 | 39.0 | 37.5 | 36.1 | 34.7 | 34.1 |
| 85° | 41.4 | 36.9 | 32.4 | 27.9 | 23.4 | 20.8 | 20.2 | 19.6 | 18.9 | 18.3 | 18.3 |
| 87.5° | 12.3 | 11.2 | 10.1 | 8.9 | 7.6 | 7.2 | 7.4 | 7.9 | 8.4 | 8.4 | 8.2 |
| 90° | 0.4 | 1.3 | 2.6 | 3.3 | 4.0 | 5.0 | 6.7 | 9.0 | 11.0 | 11.3 | 11.0 |
| 92.5° | 4.1 | 5.8 | 8.3 | 9.7 | 12.0 | 15.1 | 22.6 | 33.3 | 42.7 | 43.3 | 36.6 |
| 95° | 11.7 | 13.0 | 16.3 | 19.3 | 24.6 | 32.6 | 48.0 | 76.9 | 115.6 | 130.5 | 114.2 |
| 97.5° | 18.9 | 20.7 | 24.3 | 28.8 | 35.0 | 44.0 | 63.2 | 103.7 | 167.9 | 222.8 | 233.8 |
| 100° | 25.6 | 26.7 | 29.6 | 35.0 | 41.7 | 51.0 | 68.6 | 109.2 | 181.2 | 263.1 | 311.0 |
| 102.5° | 31.8 | 32.5 | 35.5 | 40.8 | 47.8 | 57.1 | 73.4 | 109.5 | 176.1 | 264.4 | 339.8 |
| 105° | 40.6 | 41.9 | 44.3 | 49.3 | 56.6 | 66.0 | 81.6 | 111.2 | 166.2 | 246.8 | 335.4 |
| 107.5° | 50.2 | 51.3 | 53.5 | 58.2 | 65.4 | 74.8 | 90.0 | 115.8 | 161.3 | 227.8 | 306.1 |
| 110° | 56.6 | 58.0 | 59.9 | 64.3 | 71.3 | 81.0 | 95.6 | 119.5 | 160.2 | 218.8 | 287.8 |



TEST NUMBER: P331680-830

CATALOG NUMBER: S122RDIP-S675D330U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 62.5 | 63.8 | 66.1 | 70.1 | 76.8 | 86.8 | 100.9 | 123.6 | 160.4 | 212.9 | 274.9 |
| 115° | 71.6 | 73.2 | 75.3 | 79.3 | 86.0 | 94.9 | 109.2 | 129.5 | 161.8 | 206.5 | 259.1 |
| 117.5° | 81.1 | 82.4 | 84.4 | 87.9 | 94.3 | 103.7 | 116.9 | 135.9 | 164.3 | 203.3 | 249.1 |
| 120° | 86.9 | 88.2 | 90.3 | 93.2 | 99.9 | 109.2 | 122.2 | 140.3 | 165.9 | 201.5 | 243.7 |
| 122.5° | 92.6 | 93.6 | 95.6 | 98.9 | 105.5 | 115.1 | 127.2 | 143.9 | 167.7 | 200.4 | 239.2 |
| 125° | 99.9 | 100.9 | 102.9 | 106.9 | 113.6 | 122.9 | 134.9 | 149.9 | 170.5 | 198.5 | 232.8 |
| 127.5° | 105.8 | 107.1 | 109.9 | 114.3 | 120.6 | 130.3 | 141.9 | 155.4 | 173.3 | 197.4 | 226.8 |
| 130° | 109.2 | 110.6 | 113.9 | 118.6 | 125.3 | 134.5 | 146.2 | 158.8 | 175.5 | 196.8 | 222.8 |
| 132.5° | 112.4 | 114.0 | 117.6 | 122.5 | 129.5 | 138.8 | 150.0 | 162.3 | 177.7 | 196.5 | 219.6 |
| 135° | 117.3 | 118.6 | 122.5 | 127.5 | 135.3 | 144.5 | 155.2 | 166.8 | 180.2 | 196.1 | 215.1 |
| 137.5° | 121.8 | 123.4 | 127.3 | 132.7 | 140.3 | 148.9 | 159.5 | 170.3 | 182.5 | 196.0 | 212.0 |
| 140° | 125.3 | 126.6 | 130.5 | 135.9 | 143.2 | 151.8 | 161.8 | 172.2 | 183.5 | 195.9 | 210.1 |
| 142.5° | 128.7 | 129.8 | 133.5 | 138.8 | 145.9 | 154.0 | 163.7 | 173.8 | 184.3 | 195.9 | 208.3 |
| 145° | 133.8 | 135.3 | 138.6 | 143.5 | 150.2 | 157.5 | 166.5 | 175.9 | 185.1 | 195.1 | 205.9 |
| 147.5° | 139.5 | 140.4 | 143.6 | 148.3 | 153.8 | 160.3 | 168.8 | 177.0 | 185.4 | 194.0 | 203.3 |
| 150° | 143.2 | 144.2 | 146.8 | 151.2 | 156.2 | 162.2 | 169.8 | 177.5 | 185.1 | 193.1 | 201.1 |
| 152.5° | 146.9 | 147.4 | 150.1 | 153.8 | 158.6 | 164.0 | 170.9 | 177.8 | 184.6 | 191.8 | 199.3 |
| 155° | 152.2 | 152.5 | 154.5 | 158.2 | 161.8 | 166.8 | 172.5 | 178.1 | 183.8 | 189.5 | 195.9 |
| 157.5° | 156.6 | 156.9 | 158.5 | 161.7 | 164.7 | 168.8 | 173.6 | 178.1 | 182.3 | 187.1 | 192.6 |
| 160° | 159.5 | 159.9 | 161.2 | 163.8 | 166.5 | 170.2 | 174.2 | 178.1 | 181.5 | 185.5 | 190.1 |
| 162.5° | 162.5 | 162.2 | 163.6 | 165.7 | 168.1 | 171.0 | 174.5 | 177.9 | 180.7 | 184.2 | 188.0 |
| 165° | 165.9 | 165.5 | 166.2 | 168.1 | 169.8 | 171.8 | 174.8 | 177.2 | 179.2 | 181.5 | 184.5 |
| 167.5° | 168.6 | 168.2 | 168.8 | 170.1 | 171.4 | 172.6 | 174.7 | 176.7 | 177.7 | 179.2 | 181.1 |
| 170° | 170.5 | 169.8 | 170.2 | 171.2 | 171.8 | 172.9 | 174.5 | 176.2 | 176.8 | 177.9 | 179.2 |
| 172.5° | 171.5 | 171.2 | 171.0 | 172.0 | 172.4 | 173.1 | 174.3 | 175.4 | 175.8 | 176.3 | 177.3 |
| 175° | 172.9 | 172.5 | 172.2 | 172.9 | 172.9 | 173.1 | 173.8 | 174.5 | 174.2 | 174.5 | 174.8 |
| 177.5° | 173.4 | 172.9 | 172.7 | 173.1 | 173.1 | 173.1 | 173.4 | 174.0 | 173.4 | 173.1 | 173.4 |
| 180° | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 |



TEST NUMBER: P331680-830

CATALOG NUMBER: S122RDIP-S675D330U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 |
| 2.5° | 1058.2 | 1059.9 | 1061.6 | 1062.2 | 1062.0 | 1061.6 | 1061.3 | 1060.9 |
| 5° | 1049.7 | 1051.7 | 1053.6 | 1054.2 | 1053.6 | 1052.9 | 1052.3 | 1051.7 |
| 7.5° | 1032.7 | 1033.3 | 1033.9 | 1033.6 | 1032.5 | 1031.4 | 1030.3 | 1029.2 |
| 10° | 1015.8 | 1015.1 | 1014.5 | 1013.5 | 1012.2 | 1011.0 | 1009.7 | 1008.3 |
| 12.5° | 996.3 | 995.1 | 993.9 | 992.3 | 990.1 | 988.1 | 985.9 | 983.7 |
| 15° | 959.9 | 955.7 | 951.7 | 948.6 | 946.5 | 944.3 | 942.2 | 940.1 |
| 17.5° | 918.7 | 913.8 | 909.0 | 904.7 | 901.1 | 897.4 | 893.7 | 890.0 |
| 20° | 889.9 | 884.6 | 879.2 | 874.2 | 869.5 | 864.8 | 860.1 | 855.4 |
| 22.5° | 858.4 | 851.5 | 844.6 | 839.4 | 835.8 | 832.4 | 828.9 | 825.4 |
| 25° | 806.1 | 797.3 | 788.5 | 782.6 | 779.4 | 776.2 | 773.0 | 769.8 |
| 27.5° | 756.2 | 746.0 | 735.8 | 728.1 | 723.0 | 717.9 | 712.8 | 707.8 |
| 30° | 721.0 | 710.1 | 699.2 | 690.9 | 685.0 | 679.3 | 673.5 | 667.8 |
| 32.5° | 685.6 | 673.2 | 660.7 | 651.8 | 646.3 | 640.9 | 635.5 | 630.1 |
| 35° | 630.3 | 616.8 | 603.3 | 594.2 | 589.5 | 584.8 | 580.1 | 575.4 |
| 37.5° | 576.3 | 561.5 | 546.7 | 536.5 | 531.1 | 525.8 | 520.4 | 515.0 |
| 40° | 540.2 | 525.0 | 509.8 | 499.5 | 493.9 | 488.3 | 482.8 | 477.2 |
| 42.5° | 503.8 | 488.0 | 472.4 | 461.8 | 456.5 | 451.1 | 445.7 | 440.3 |
| 45° | 450.7 | 435.5 | 420.4 | 410.2 | 405.1 | 399.9 | 394.8 | 389.6 |
| 47.5° | 399.2 | 384.1 | 368.9 | 359.1 | 354.4 | 349.8 | 345.1 | 340.4 |
| 50° | 366.0 | 351.2 | 336.5 | 326.8 | 322.3 | 317.8 | 313.4 | 308.9 |
| 52.5° | 334.7 | 320.4 | 306.1 | 297.0 | 292.8 | 288.7 | 284.6 | 280.4 |
| 55° | 287.1 | 274.2 | 261.4 | 253.0 | 248.9 | 244.8 | 240.7 | 236.7 |
| 57.5° | 243.7 | 232.1 | 220.3 | 212.6 | 209.2 | 205.9 | 202.4 | 199.0 |
| 60° | 214.0 | 203.0 | 192.1 | 184.9 | 181.5 | 178.1 | 174.7 | 171.3 |
| 62.5° | 188.0 | 177.6 | 167.2 | 161.0 | 158.9 | 156.9 | 154.9 | 152.8 |
| 65° | 152.9 | 145.6 | 138.4 | 134.4 | 133.7 | 133.1 | 132.4 | 131.9 |
| 67.5° | 123.4 | 120.1 | 116.8 | 114.7 | 114.0 | 113.4 | 112.7 | 112.0 |
| 70° | 107.4 | 105.2 | 103.0 | 101.6 | 100.7 | 99.8 | 99.0 | 98.1 |
| 72.5° | 93.4 | 91.6 | 89.8 | 88.7 | 88.1 | 87.7 | 87.1 | 86.6 |
| 75° | 74.0 | 72.5 | 71.0 | 70.1 | 69.9 | 69.7 | 69.5 | 69.3 |
| 77.5° | 56.0 | 55.1 | 54.3 | 53.7 | 53.3 | 53.1 | 52.7 | 52.3 |
| 80° | 44.5 | 43.6 | 42.8 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 |
| 82.5° | 33.6 | 33.1 | 32.6 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 |
| 85° | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 |
| 87.5° | 7.9 | 7.6 | 7.6 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 90° | 10.7 | 10.0 | 10.7 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 |
| 92.5° | 29.0 | 24.9 | 22.1 | 20.1 | 19.8 | 18.8 | 18.9 | 18.5 |
| 95° | 87.3 | 66.9 | 53.0 | 45.6 | 41.3 | 38.6 | 37.6 | 38.0 |
| 97.5° | 203.6 | 166.5 | 130.5 | 106.5 | 90.6 | 82.4 | 77.6 | 74.7 |
| 100° | 304.1 | 262.8 | 217.2 | 176.8 | 149.2 | 134.9 | 125.3 | 119.2 |
| 102.5° | 369.9 | 360.5 | 327.2 | 284.5 | 254.4 | 230.0 | 217.9 | 209.8 |
| 105° | 404.6 | 442.2 | 446.6 | 435.6 | 414.9 | 394.3 | 379.9 | 375.3 |
| 107.5° | 379.6 | 436.3 | 470.9 | 487.0 | 489.7 | 488.5 | 485.6 | 479.5 |
| 110° | 358.0 | 417.6 | 460.2 | 487.6 | 501.9 | 508.2 | 511.2 | 510.9 |



TEST NUMBER: P331680-830

CATALOG NUMBER: S122RDIP-S675D330U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 338.3 | 395.5 | 441.0 | 472.4 | 492.3 | 502.8 | 508.5 | 510.3 |
| 115° | 314.1 | 365.3 | 409.0 | 443.3 | 466.9 | 482.2 | 490.9 | 493.9 |
| 117.5° | 295.8 | 340.8 | 380.4 | 412.6 | 436.7 | 452.9 | 461.9 | 464.5 |
| 120° | 286.7 | 328.0 | 363.4 | 393.6 | 417.0 | 432.6 | 442.2 | 445.6 |
| 122.5° | 279.6 | 317.4 | 350.8 | 378.1 | 399.1 | 414.5 | 423.1 | 425.8 |
| 125° | 269.1 | 303.4 | 332.7 | 357.7 | 377.0 | 389.6 | 397.9 | 400.7 |
| 127.5° | 258.7 | 289.8 | 317.4 | 340.4 | 357.3 | 369.2 | 376.4 | 378.5 |
| 130° | 252.1 | 280.8 | 307.1 | 329.0 | 345.3 | 356.7 | 363.4 | 366.0 |
| 132.5° | 245.7 | 272.2 | 296.4 | 317.1 | 333.1 | 344.4 | 350.5 | 353.0 |
| 135° | 236.8 | 258.7 | 280.8 | 299.4 | 313.7 | 324.7 | 330.7 | 332.1 |
| 137.5° | 229.7 | 248.1 | 265.5 | 281.7 | 294.8 | 304.3 | 309.5 | 311.5 |
| 140° | 225.1 | 241.1 | 256.5 | 271.1 | 281.7 | 290.4 | 295.4 | 297.4 |
| 142.5° | 221.4 | 235.0 | 248.2 | 260.4 | 270.5 | 278.4 | 282.9 | 283.2 |
| 145° | 216.1 | 227.2 | 237.4 | 247.1 | 255.1 | 260.8 | 264.1 | 265.0 |
| 147.5° | 212.1 | 220.7 | 228.8 | 235.8 | 242.4 | 246.9 | 249.2 | 249.9 |
| 150° | 209.2 | 216.5 | 223.5 | 229.4 | 234.4 | 238.5 | 240.4 | 240.8 |
| 152.5° | 206.2 | 213.0 | 219.0 | 224.1 | 228.1 | 231.5 | 233.0 | 233.1 |
| 155° | 202.2 | 207.5 | 212.4 | 216.1 | 219.8 | 222.2 | 223.5 | 222.8 |
| 157.5° | 197.5 | 201.9 | 206.0 | 209.0 | 211.5 | 213.5 | 214.1 | 214.1 |
| 160° | 194.4 | 198.1 | 201.8 | 204.2 | 206.5 | 208.1 | 208.5 | 208.5 |
| 162.5° | 191.5 | 194.7 | 197.8 | 199.6 | 202.0 | 203.1 | 203.4 | 203.1 |
| 165° | 187.2 | 189.5 | 191.8 | 193.1 | 194.4 | 195.9 | 195.9 | 195.5 |
| 167.5° | 182.9 | 184.7 | 186.3 | 187.6 | 188.1 | 188.9 | 188.8 | 188.4 |
| 170° | 180.9 | 181.8 | 183.1 | 183.8 | 184.2 | 185.1 | 184.8 | 184.2 |
| 172.5° | 178.4 | 179.2 | 180.2 | 180.6 | 181.0 | 181.4 | 181.1 | 180.7 |
| 175° | 175.9 | 176.2 | 176.5 | 176.8 | 176.8 | 177.2 | 176.8 | 176.2 |
| 177.5° | 174.0 | 174.0 | 174.3 | 174.3 | 174.3 | 174.3 | 174.0 | 173.4 |
| 180° | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 | 173.1 |

(END OF REPORT)