

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: P332630-927

Luminaire Tested: **SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332630-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

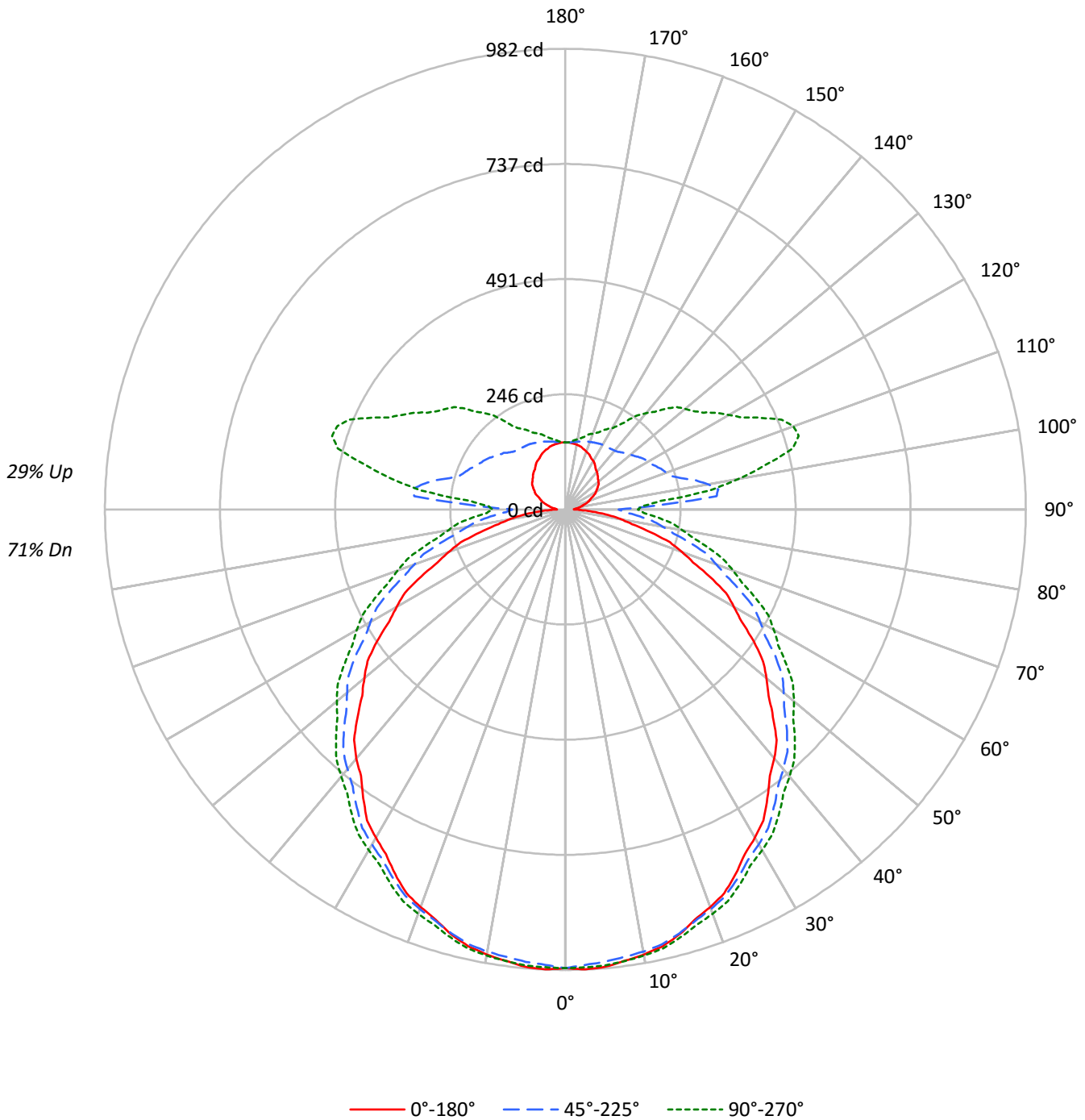
Lumens per Lamp: N/A
Luminaire Lumens: 4371.4 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 43.5
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: P332630-927
CATALOG NUMBER: SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P332630-927

CATALOG NUMBER: SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4

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 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 84 | 84 | 84 | 75 | 75 | 75 | 71 | | | | |
| 1 | 101 | 96 | 91 | 87 | 95 | 91 | 87 | 83 | 81 | 78 | 75 | 72 | 70 | 68 | 64 | 62 | 61 | 56 | | | | |
| 2 | 91 | 83 | 76 | 70 | 86 | 79 | 72 | 67 | 70 | 65 | 61 | 63 | 59 | 55 | 56 | 53 | 50 | 46 | | | | |
| 3 | 83 | 72 | 64 | 58 | 78 | 69 | 61 | 55 | 61 | 56 | 51 | 55 | 50 | 46 | 49 | 45 | 42 | 38 | | | | |
| 4 | 76 | 64 | 55 | 49 | 71 | 61 | 53 | 47 | 54 | 48 | 43 | 49 | 43 | 39 | 43 | 39 | 36 | 32 | | | | |
| 5 | 69 | 57 | 48 | 41 | 65 | 54 | 46 | 40 | 49 | 42 | 37 | 43 | 38 | 34 | 39 | 34 | 31 | 28 | | | | |
| 6 | 64 | 51 | 42 | 36 | 60 | 48 | 40 | 35 | 44 | 37 | 32 | 39 | 34 | 29 | 35 | 31 | 27 | 24 | | | | |
| 7 | 59 | 46 | 37 | 31 | 56 | 44 | 36 | 30 | 40 | 33 | 28 | 36 | 30 | 26 | 32 | 27 | 24 | 21 | | | | |
| 8 | 55 | 42 | 33 | 28 | 52 | 40 | 32 | 27 | 36 | 30 | 25 | 33 | 27 | 23 | 29 | 25 | 21 | 19 | | | | |
| 9 | 51 | 38 | 30 | 25 | 48 | 36 | 29 | 24 | 33 | 27 | 22 | 30 | 25 | 21 | 27 | 22 | 19 | 17 | | | | |
| 10 | 48 | 35 | 27 | 22 | 45 | 34 | 26 | 22 | 31 | 24 | 20 | 28 | 22 | 19 | 25 | 21 | 17 | 15 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7896 | 7896 | 7896 |
| 5° | 7920 | 7717 | 7739 |
| 10° | 7872 | 7591 | 7585 |
| 15° | 7802 | 7444 | 7404 |
| 20° | 7695 | 7284 | 7227 |
| 25° | 7575 | 7102 | 7034 |
| 30° | 7445 | 6922 | 6835 |
| 35° | 7299 | 6739 | 6660 |
| 40° | 7181 | 6564 | 6478 |
| 45° | 7007 | 6402 | 6322 |
| 50° | 6859 | 6215 | 6158 |
| 55° | 6707 | 6040 | 5964 |
| 60° | 6469 | 5816 | 5788 |
| 65° | 6208 | 5578 | 5571 |
| 70° | 5894 | 5303 | 5319 |
| 75° | 5453 | 5001 | 5089 |
| 80° | 4964 | 4711 | 4865 |
| 85° | 4347 | 4456 | 4735 |



TEST NUMBER: P332630-927

CATALOG NUMBER: SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.6 | 2.1 |
| 10°-20° | 265.4 | 6.1 |
| 20°-30° | 401.3 | 9.2 |
| 30°-40° | 485.5 | 11.1 |
| 40°-50° | 513.3 | 11.7 |
| 50°-60° | 483.1 | 11.1 |
| 60°-70° | 400.8 | 9.2 |
| 70°-80° | 281.5 | 6.4 |
| 80°-90° | 159.9 | 3.7 |
| 90°-100° | 197.4 | 4.5 |
| 100°-110° | 284.2 | 6.5 |
| 110°-120° | 238.8 | 5.5 |
| 120°-130° | 187.9 | 4.3 |
| 130°-140° | 146.0 | 3.3 |
| 140°-150° | 105.1 | 2.4 |
| 150°-160° | 72.3 | 1.7 |
| 160°-170° | 42.5 | 1.0 |
| 170°-180° | 13.8 | 0.3 |
| 0°-30° | 759.3 | 17.4 |
| 0°-40° | 1244.8 | 28.5 |
| 0°-60° | 2241.1 | 51.3 |
| 0°-90° | 3083.3 | 70.5 |
| 90°-120° | 720.4 | 16.5 |
| 90°-150° | 1159.5 | 26.5 |
| 90°-180° | 1288.0 | 29.5 |
| 0°-180° | 4371.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 978 | 978 | 978 | 978 | 978 | |
| 5° | 979 | 976 | 968 | 976 | 976 | 93 |
| 15° | 939 | 940 | 936 | 946 | 945 | 264 |
| 25° | 859 | 865 | 868 | 880 | 882 | 395 |
| 35° | 751 | 764 | 776 | 790 | 794 | 470 |
| 45° | 626 | 647 | 668 | 686 | 692 | 484 |
| 55° | 491 | 514 | 546 | 568 | 575 | 437 |
| 65° | 340 | 375 | 412 | 438 | 448 | 336 |
| 75° | 188 | 229 | 275 | 304 | 315 | 200 |
| 85° | 58 | 104 | 153 | 185 | 197 | 62 |
| 90° | 18 | 64 | 113 | 145 | 155 | 12 |
| 95° | 23 | 80 | 323 | 237 | 203 | 22 |
| 105° | 43 | 80 | 256 | 494 | 502 | 46 |
| 115° | 64 | 90 | 215 | 389 | 462 | 64 |
| 125° | 85 | 100 | 194 | 318 | 360 | 76 |
| 135° | 98 | 116 | 171 | 264 | 304 | 76 |
| 145° | 111 | 126 | 161 | 207 | 231 | 70 |
| 155° | 125 | 135 | 156 | 177 | 184 | 58 |
| 165° | 136 | 141 | 150 | 159 | 161 | 38 |
| 175° | 142 | 142 | 144 | 146 | 145 | 13 |
| 180° | 142 | 142 | 142 | 142 | 142 | |



TEST NUMBER: P332630-927

CATALOG NUMBER: SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 |
| 2.5° | 981.6 | 981.0 | 980.4 | 979.9 | 979.2 | 978.2 | 976.6 | 975.1 | 973.5 | 971.9 | 973.3 |
| 5° | 979.1 | 978.4 | 977.7 | 977.0 | 976.3 | 975.0 | 973.4 | 971.6 | 969.9 | 968.2 | 970.2 |
| 7.5° | 970.8 | 970.4 | 969.9 | 969.6 | 969.1 | 968.2 | 966.8 | 965.4 | 963.9 | 962.5 | 964.7 |
| 10° | 963.8 | 963.6 | 963.4 | 963.1 | 962.9 | 962.1 | 960.9 | 959.7 | 958.5 | 957.3 | 959.5 |
| 12.5° | 954.2 | 954.2 | 954.1 | 954.0 | 954.0 | 953.5 | 952.8 | 951.9 | 951.1 | 950.2 | 952.3 |
| 15° | 938.7 | 938.9 | 939.1 | 939.4 | 939.6 | 939.4 | 938.7 | 937.9 | 937.2 | 936.4 | 938.7 |
| 17.5° | 917.4 | 918.1 | 918.9 | 919.6 | 920.4 | 920.6 | 920.4 | 920.4 | 920.2 | 920.0 | 922.3 |
| 20° | 902.5 | 903.2 | 904.0 | 904.7 | 905.5 | 905.9 | 906.2 | 906.4 | 906.7 | 906.9 | 909.3 |
| 22.5° | 885.8 | 886.8 | 887.7 | 888.7 | 889.5 | 890.3 | 890.7 | 891.1 | 891.5 | 892.0 | 894.5 |
| 25° | 858.7 | 860.2 | 861.6 | 863.1 | 864.5 | 865.6 | 866.3 | 867.1 | 867.8 | 868.5 | 871.2 |
| 27.5° | 828.5 | 830.6 | 832.7 | 834.9 | 837.0 | 838.7 | 839.8 | 840.9 | 842.0 | 843.1 | 845.7 |
| 30° | 808.3 | 810.2 | 812.2 | 814.1 | 816.1 | 817.9 | 819.6 | 821.3 | 823.0 | 824.7 | 827.4 |
| 32.5° | 786.4 | 788.8 | 791.1 | 793.4 | 795.7 | 797.9 | 799.8 | 801.7 | 803.6 | 805.5 | 808.5 |
| 35° | 751.4 | 754.3 | 757.2 | 760.1 | 763.0 | 765.7 | 768.2 | 770.6 | 773.0 | 775.5 | 778.9 |
| 37.5° | 716.1 | 719.5 | 722.8 | 726.2 | 729.5 | 732.7 | 735.7 | 738.7 | 741.8 | 744.8 | 748.2 |
| 40° | 693.3 | 696.5 | 699.7 | 702.8 | 706.0 | 709.2 | 712.6 | 716.1 | 719.5 | 722.9 | 726.5 |
| 42.5° | 667.0 | 670.6 | 674.1 | 677.7 | 681.2 | 685.0 | 689.0 | 693.0 | 697.0 | 701.0 | 705.0 |
| 45° | 626.5 | 631.1 | 635.7 | 640.4 | 645.0 | 649.6 | 654.3 | 658.9 | 663.5 | 668.1 | 672.2 |
| 47.5° | 587.7 | 592.5 | 597.2 | 602.1 | 606.8 | 611.9 | 617.2 | 622.6 | 628.0 | 633.3 | 637.5 |
| 50° | 559.7 | 565.1 | 570.4 | 575.8 | 581.1 | 586.5 | 591.8 | 597.1 | 602.5 | 607.8 | 612.8 |
| 52.5° | 531.6 | 537.0 | 542.3 | 547.7 | 553.1 | 558.8 | 564.9 | 571.1 | 577.2 | 583.4 | 588.2 |
| 55° | 490.7 | 495.8 | 500.9 | 506.0 | 511.1 | 517.3 | 524.7 | 532.0 | 539.2 | 546.5 | 551.4 |
| 57.5° | 444.9 | 451.2 | 457.6 | 463.9 | 470.2 | 477.0 | 484.3 | 491.5 | 498.8 | 506.0 | 511.8 |
| 60° | 415.1 | 421.4 | 427.8 | 434.1 | 440.5 | 447.6 | 455.7 | 463.7 | 471.7 | 479.7 | 485.3 |
| 62.5° | 386.2 | 393.1 | 400.1 | 406.9 | 413.8 | 421.3 | 429.4 | 437.4 | 445.4 | 453.4 | 459.1 |
| 65° | 339.5 | 347.3 | 355.1 | 362.9 | 370.7 | 378.7 | 387.0 | 395.3 | 403.5 | 411.9 | 417.9 |
| 67.5° | 294.6 | 302.9 | 311.2 | 319.5 | 327.7 | 336.3 | 345.2 | 354.0 | 362.9 | 371.8 | 378.0 |
| 70° | 264.0 | 272.3 | 280.5 | 288.8 | 297.1 | 305.9 | 315.1 | 324.3 | 333.6 | 342.9 | 349.4 |
| 72.5° | 234.2 | 242.6 | 251.1 | 259.6 | 268.1 | 277.2 | 287.0 | 296.8 | 306.7 | 316.6 | 322.9 |
| 75° | 188.4 | 197.4 | 206.4 | 215.4 | 224.4 | 234.0 | 244.2 | 254.4 | 264.7 | 274.9 | 281.7 |
| 77.5° | 145.7 | 155.2 | 164.8 | 174.3 | 183.9 | 193.9 | 204.7 | 215.4 | 226.1 | 236.8 | 243.7 |
| 80° | 119.4 | 129.1 | 138.9 | 148.6 | 158.4 | 168.6 | 179.3 | 190.0 | 200.7 | 211.4 | 218.7 |
| 82.5° | 93.1 | 103.2 | 113.4 | 123.5 | 133.6 | 144.0 | 154.7 | 165.4 | 176.2 | 186.9 | 194.3 |
| 85° | 58.1 | 68.3 | 78.5 | 88.7 | 98.9 | 109.6 | 120.5 | 131.4 | 142.4 | 153.4 | 160.7 |
| 87.5° | 32.5 | 42.5 | 52.6 | 62.6 | 72.6 | 82.9 | 93.9 | 104.6 | 115.3 | 126.1 | 133.1 |
| 90° | 17.8 | 28.1 | 38.7 | 48.7 | 58.7 | 68.8 | 81.0 | 91.4 | 102.4 | 113.4 | 120.3 |
| 92.5° | 19.8 | 30.0 | 41.4 | 53.6 | 66.5 | 81.9 | 106.6 | 138.8 | 170.4 | 191.9 | 184.0 |
| 95° | 23.4 | 32.3 | 43.2 | 54.8 | 69.6 | 90.4 | 124.7 | 180.6 | 257.5 | 323.4 | 336.5 |
| 97.5° | 29.5 | 36.4 | 45.7 | 56.0 | 68.7 | 86.9 | 115.6 | 163.3 | 239.8 | 328.8 | 389.7 |
| 100° | 33.4 | 39.7 | 47.9 | 57.6 | 69.3 | 86.1 | 112.2 | 153.3 | 219.9 | 308.3 | 386.6 |
| 102.5° | 37.8 | 43.8 | 51.1 | 59.8 | 70.4 | 86.3 | 110.6 | 147.7 | 205.7 | 284.9 | 365.2 |
| 105° | 42.6 | 48.3 | 54.6 | 62.8 | 72.7 | 87.8 | 110.2 | 142.4 | 190.7 | 256.0 | 327.8 |
| 107.5° | 50.1 | 54.7 | 60.0 | 67.7 | 76.4 | 90.7 | 111.5 | 141.2 | 183.2 | 237.0 | 296.8 |
| 110° | 54.4 | 58.4 | 63.1 | 69.9 | 78.4 | 91.9 | 112.7 | 140.9 | 180.2 | 229.3 | 280.5 |



TEST NUMBER: P332630-927

CATALOG NUMBER: SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 58.5 | 62.0 | 66.7 | 72.8 | 80.9 | 94.0 | 114.0 | 140.6 | 177.5 | 222.9 | 269.0 |
| 115° | 64.2 | 67.3 | 71.5 | 76.4 | 83.9 | 96.5 | 115.5 | 140.1 | 173.9 | 215.2 | 255.9 |
| 117.5° | 71.5 | 73.5 | 76.6 | 81.0 | 87.3 | 99.4 | 117.2 | 140.0 | 170.6 | 208.4 | 246.1 |
| 120° | 75.5 | 76.8 | 79.5 | 83.3 | 88.7 | 100.4 | 118.2 | 139.8 | 168.4 | 204.1 | 240.0 |
| 122.5° | 79.9 | 80.6 | 82.8 | 85.8 | 91.1 | 102.1 | 119.5 | 139.8 | 166.4 | 199.4 | 233.8 |
| 125° | 84.8 | 85.6 | 87.1 | 89.9 | 95.0 | 105.8 | 121.9 | 140.9 | 164.5 | 193.6 | 225.1 |
| 127.5° | 89.8 | 90.4 | 92.1 | 95.5 | 100.8 | 110.8 | 125.2 | 141.7 | 161.8 | 186.4 | 214.4 |
| 130° | 91.7 | 92.6 | 94.7 | 98.6 | 103.7 | 113.6 | 127.0 | 141.8 | 160.0 | 181.8 | 207.5 |
| 132.5° | 94.7 | 95.3 | 98.0 | 101.7 | 107.3 | 116.4 | 129.0 | 142.8 | 158.8 | 178.1 | 201.5 |
| 135° | 97.7 | 98.8 | 101.6 | 106.3 | 112.3 | 120.3 | 131.3 | 143.1 | 156.3 | 171.4 | 191.5 |
| 137.5° | 101.7 | 102.6 | 105.4 | 109.7 | 115.6 | 122.8 | 132.2 | 142.5 | 153.5 | 166.3 | 183.2 |
| 140° | 104.6 | 105.3 | 108.1 | 112.6 | 118.3 | 125.0 | 133.6 | 142.8 | 152.6 | 163.4 | 178.6 |
| 142.5° | 106.9 | 107.7 | 110.5 | 115.0 | 120.6 | 127.0 | 135.1 | 143.1 | 152.1 | 161.7 | 175.2 |
| 145° | 111.1 | 111.7 | 114.3 | 118.0 | 123.0 | 129.0 | 136.3 | 143.9 | 152.0 | 160.7 | 171.1 |
| 147.5° | 116.1 | 116.1 | 118.4 | 122.2 | 126.4 | 131.7 | 138.6 | 145.2 | 152.3 | 159.7 | 167.8 |
| 150° | 119.2 | 119.3 | 121.3 | 124.4 | 128.3 | 133.6 | 139.7 | 145.8 | 152.3 | 159.0 | 166.0 |
| 152.5° | 121.3 | 121.3 | 123.5 | 126.6 | 130.2 | 135.1 | 140.6 | 146.3 | 151.9 | 157.9 | 164.2 |
| 155° | 125.2 | 125.4 | 127.1 | 129.9 | 133.0 | 137.2 | 142.0 | 146.7 | 151.2 | 156.2 | 161.5 |
| 157.5° | 129.1 | 129.1 | 130.7 | 132.8 | 135.5 | 138.9 | 142.9 | 146.7 | 150.4 | 154.5 | 158.8 |
| 160° | 131.6 | 131.6 | 132.7 | 134.7 | 136.9 | 140.0 | 143.4 | 146.7 | 149.8 | 153.1 | 156.8 |
| 162.5° | 133.8 | 133.6 | 134.5 | 136.3 | 138.2 | 140.7 | 143.8 | 146.7 | 149.1 | 151.8 | 155.0 |
| 165° | 136.3 | 136.3 | 136.9 | 138.3 | 139.7 | 141.4 | 143.9 | 146.2 | 147.8 | 149.8 | 152.0 |
| 167.5° | 138.9 | 138.6 | 138.9 | 139.9 | 140.7 | 142.0 | 143.9 | 145.4 | 146.5 | 147.7 | 149.3 |
| 170° | 140.0 | 139.7 | 140.0 | 140.9 | 141.4 | 142.2 | 143.6 | 145.0 | 145.6 | 146.4 | 147.6 |
| 172.5° | 141.1 | 140.9 | 140.9 | 141.5 | 141.8 | 142.4 | 143.4 | 144.6 | 144.7 | 145.0 | 146.0 |
| 175° | 142.2 | 142.0 | 142.0 | 142.2 | 142.5 | 142.5 | 143.1 | 143.9 | 143.6 | 143.6 | 144.2 |
| 177.5° | 142.8 | 142.5 | 142.3 | 142.5 | 142.5 | 142.5 | 142.8 | 143.1 | 142.8 | 142.8 | 143.0 |
| 180° | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 |



TEST NUMBER: P332630-927

CATALOG NUMBER: SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 | 978.1 |
| 2.5° | 974.7 | 976.0 | 977.4 | 977.9 | 977.8 | 977.6 | 977.4 | 977.2 |
| 5° | 972.1 | 974.1 | 976.0 | 976.8 | 976.6 | 976.4 | 976.1 | 975.9 |
| 7.5° | 966.9 | 969.1 | 971.3 | 972.2 | 972.0 | 971.8 | 971.5 | 971.3 |
| 10° | 961.6 | 963.8 | 966.1 | 967.0 | 966.8 | 966.5 | 966.3 | 966.1 |
| 12.5° | 954.3 | 956.2 | 958.2 | 959.3 | 959.2 | 959.1 | 959.1 | 959.0 |
| 15° | 940.9 | 943.0 | 945.2 | 946.2 | 945.9 | 945.7 | 945.5 | 945.2 |
| 17.5° | 924.5 | 926.8 | 929.0 | 930.0 | 929.8 | 929.6 | 929.4 | 929.2 |
| 20° | 911.7 | 914.2 | 916.6 | 917.8 | 917.8 | 917.8 | 917.8 | 917.8 |
| 22.5° | 896.8 | 899.3 | 901.7 | 903.2 | 903.6 | 903.9 | 904.3 | 904.7 |
| 25° | 873.9 | 876.5 | 879.2 | 880.7 | 881.0 | 881.2 | 881.5 | 881.7 |
| 27.5° | 848.1 | 850.6 | 853.1 | 854.4 | 854.8 | 855.1 | 855.3 | 855.6 |
| 30° | 830.1 | 832.7 | 835.4 | 837.0 | 837.5 | 838.0 | 838.5 | 839.0 |
| 32.5° | 811.6 | 814.7 | 817.8 | 819.5 | 820.0 | 820.5 | 820.9 | 821.5 |
| 35° | 782.3 | 785.7 | 789.1 | 791.2 | 791.9 | 792.6 | 793.4 | 794.1 |
| 37.5° | 751.7 | 755.2 | 758.6 | 760.7 | 761.5 | 762.3 | 763.0 | 763.8 |
| 40° | 730.2 | 733.8 | 737.5 | 739.8 | 740.8 | 741.7 | 742.8 | 743.7 |
| 42.5° | 709.1 | 713.1 | 717.2 | 719.5 | 720.3 | 721.1 | 721.9 | 722.6 |
| 45° | 676.4 | 680.6 | 684.7 | 687.4 | 688.6 | 689.8 | 691.0 | 692.2 |
| 47.5° | 641.8 | 646.1 | 650.5 | 653.3 | 654.7 | 656.2 | 657.7 | 659.2 |
| 50° | 617.6 | 622.5 | 627.3 | 630.5 | 632.0 | 633.4 | 634.9 | 636.4 |
| 52.5° | 593.1 | 597.9 | 602.9 | 605.9 | 607.4 | 608.9 | 610.4 | 611.8 |
| 55° | 556.3 | 561.2 | 566.0 | 569.2 | 570.6 | 572.1 | 573.5 | 575.0 |
| 57.5° | 517.6 | 523.4 | 529.2 | 532.7 | 534.1 | 535.5 | 536.9 | 538.2 |
| 60° | 490.9 | 496.5 | 502.1 | 505.9 | 507.9 | 509.8 | 511.7 | 513.7 |
| 62.5° | 464.6 | 470.2 | 475.9 | 479.6 | 481.6 | 483.5 | 485.4 | 487.4 |
| 65° | 424.0 | 430.1 | 436.2 | 440.2 | 442.1 | 444.1 | 446.0 | 448.0 |
| 67.5° | 384.1 | 390.3 | 396.5 | 400.5 | 402.4 | 404.3 | 406.2 | 408.1 |
| 70° | 355.9 | 362.5 | 369.1 | 373.3 | 374.9 | 376.7 | 378.3 | 380.1 |
| 72.5° | 329.3 | 335.6 | 342.1 | 346.2 | 348.1 | 350.0 | 351.9 | 353.8 |
| 75° | 288.5 | 295.3 | 302.1 | 306.7 | 308.9 | 311.1 | 313.2 | 315.4 |
| 77.5° | 250.6 | 257.5 | 264.4 | 269.1 | 271.4 | 273.8 | 276.1 | 278.5 |
| 80° | 226.0 | 233.3 | 240.6 | 245.2 | 247.2 | 249.1 | 251.0 | 253.0 |
| 82.5° | 201.8 | 209.4 | 216.8 | 221.7 | 223.8 | 225.9 | 228.1 | 230.2 |
| 85° | 167.9 | 175.2 | 182.5 | 187.4 | 189.9 | 192.3 | 194.7 | 197.2 |
| 87.5° | 140.2 | 147.3 | 154.4 | 159.1 | 161.2 | 163.4 | 165.5 | 167.6 |
| 90° | 127.6 | 134.9 | 142.3 | 146.8 | 149.0 | 151.2 | 152.9 | 154.9 |
| 92.5° | 171.9 | 165.2 | 163.6 | 162.4 | 161.0 | 161.4 | 162.4 | 164.4 |
| 95° | 315.9 | 279.1 | 248.1 | 225.4 | 213.8 | 207.3 | 204.5 | 203.0 |
| 97.5° | 407.7 | 398.0 | 377.0 | 352.0 | 334.0 | 319.2 | 312.9 | 309.2 |
| 100° | 434.0 | 446.2 | 439.0 | 422.5 | 399.8 | 384.4 | 377.8 | 377.2 |
| 102.5° | 427.7 | 461.8 | 472.2 | 467.7 | 454.6 | 444.2 | 437.2 | 437.4 |
| 105° | 398.1 | 452.6 | 486.3 | 501.8 | 504.4 | 504.1 | 502.1 | 502.3 |
| 107.5° | 359.5 | 417.1 | 462.1 | 490.9 | 506.5 | 514.7 | 519.2 | 521.7 |
| 110° | 336.0 | 390.0 | 436.2 | 470.8 | 492.6 | 506.3 | 513.3 | 517.8 |



TEST NUMBER: P332630-927

CATALOG NUMBER: SA4XXDIP-C1020D365U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 317.1 | 365.4 | 409.1 | 443.5 | 468.1 | 484.3 | 493.2 | 499.3 |
| 115° | 296.3 | 336.0 | 374.1 | 404.6 | 428.4 | 446.9 | 457.6 | 461.5 |
| 117.5° | 282.2 | 315.7 | 346.5 | 372.8 | 393.6 | 409.7 | 420.7 | 424.4 |
| 120° | 274.3 | 305.1 | 332.4 | 355.7 | 373.6 | 387.9 | 397.1 | 402.1 |
| 122.5° | 267.2 | 297.1 | 322.4 | 343.2 | 358.4 | 370.7 | 378.6 | 383.4 |
| 125° | 256.6 | 285.3 | 309.3 | 327.7 | 340.4 | 349.9 | 356.7 | 359.9 |
| 127.5° | 244.0 | 271.3 | 295.0 | 312.6 | 325.5 | 334.5 | 340.6 | 343.9 |
| 130° | 235.1 | 261.6 | 285.0 | 302.8 | 315.7 | 324.2 | 330.1 | 333.3 |
| 132.5° | 226.5 | 251.4 | 274.3 | 291.9 | 304.6 | 313.9 | 319.7 | 322.8 |
| 135° | 213.1 | 235.2 | 256.1 | 272.8 | 285.5 | 294.8 | 300.7 | 303.9 |
| 137.5° | 201.5 | 220.4 | 238.4 | 253.4 | 265.1 | 274.0 | 278.9 | 282.2 |
| 140° | 194.7 | 211.0 | 226.8 | 240.7 | 251.8 | 259.1 | 264.3 | 267.8 |
| 142.5° | 189.0 | 203.4 | 217.0 | 229.1 | 238.8 | 245.5 | 250.0 | 252.6 |
| 145° | 181.6 | 192.5 | 202.4 | 211.4 | 219.4 | 225.1 | 228.9 | 231.3 |
| 147.5° | 175.4 | 183.2 | 190.0 | 196.7 | 202.6 | 207.5 | 210.4 | 211.7 |
| 150° | 172.8 | 179.2 | 184.8 | 189.8 | 194.3 | 198.0 | 199.6 | 199.9 |
| 152.5° | 170.3 | 175.9 | 181.0 | 185.1 | 188.9 | 191.9 | 192.9 | 193.2 |
| 155° | 166.6 | 171.0 | 175.2 | 178.6 | 181.4 | 183.6 | 184.5 | 184.5 |
| 157.5° | 162.6 | 166.4 | 169.9 | 172.6 | 174.7 | 176.4 | 176.9 | 176.9 |
| 160° | 160.2 | 163.2 | 166.3 | 168.6 | 170.2 | 171.9 | 172.2 | 172.2 |
| 162.5° | 157.7 | 160.3 | 162.7 | 164.8 | 166.0 | 167.6 | 167.9 | 167.7 |
| 165° | 154.2 | 156.0 | 157.9 | 159.3 | 160.4 | 161.5 | 161.3 | 161.0 |
| 167.5° | 151.0 | 152.3 | 153.8 | 154.6 | 155.2 | 156.0 | 155.9 | 155.7 |
| 170° | 148.9 | 149.8 | 150.9 | 151.8 | 152.3 | 152.6 | 152.3 | 152.3 |
| 172.5° | 147.2 | 147.7 | 148.5 | 149.1 | 149.4 | 149.6 | 149.4 | 148.9 |
| 175° | 144.7 | 145.0 | 145.6 | 145.6 | 145.6 | 146.2 | 145.6 | 145.0 |
| 177.5° | 143.1 | 143.4 | 143.4 | 143.6 | 143.4 | 143.6 | 143.1 | 142.8 |
| 180° | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 |

(END OF REPORT)