

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: P331388-840

Luminaire Tested: **SA2XXDIP-C865D530U840-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331388-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D530U840-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5438.4 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: General Diffuse

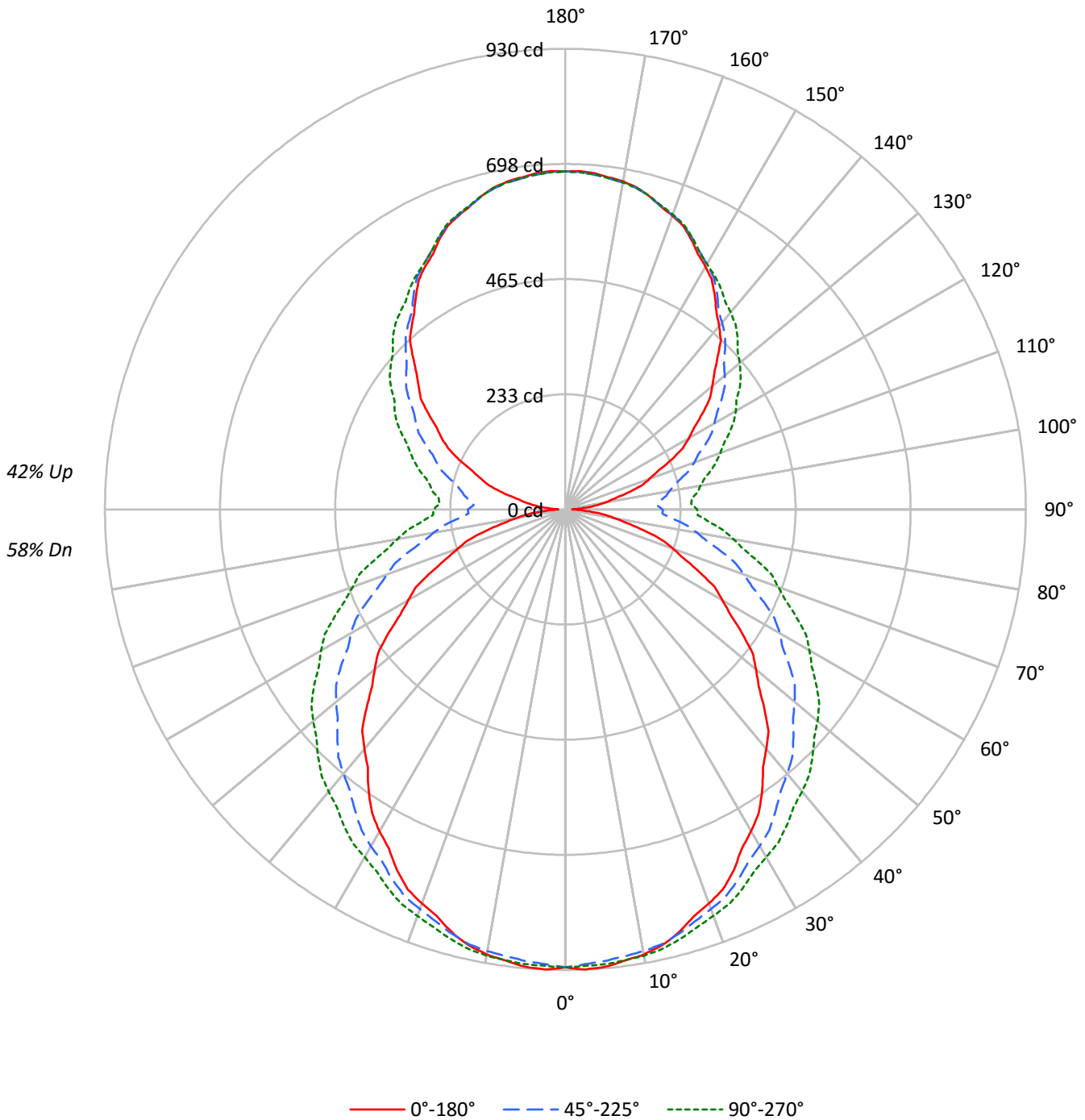
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331388-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331388-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-D1

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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 63 | 63 | 63 | 58 |
| 1 | 98 | 93 | 88 | 84 | 91 | 86 | 82 | 79 | 74 | 71 | 68 | 63 | 61 | 59 | 53 | 51 | 50 | 45 |
| 2 | 88 | 80 | 73 | 67 | 82 | 74 | 68 | 63 | 64 | 59 | 55 | 55 | 51 | 48 | 46 | 43 | 41 | 36 |
| 3 | 80 | 70 | 62 | 55 | 74 | 65 | 58 | 52 | 56 | 50 | 46 | 48 | 43 | 40 | 40 | 37 | 34 | 30 |
| 4 | 73 | 61 | 53 | 46 | 68 | 57 | 50 | 44 | 49 | 43 | 38 | 42 | 37 | 34 | 35 | 32 | 29 | 25 |
| 5 | 67 | 54 | 46 | 39 | 62 | 51 | 43 | 37 | 44 | 38 | 33 | 38 | 33 | 29 | 32 | 28 | 25 | 22 |
| 6 | 62 | 49 | 40 | 34 | 57 | 46 | 38 | 32 | 40 | 33 | 29 | 34 | 29 | 25 | 29 | 25 | 22 | 19 |
| 7 | 57 | 44 | 35 | 30 | 53 | 41 | 33 | 28 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 16 |
| 8 | 53 | 40 | 32 | 26 | 49 | 37 | 30 | 25 | 33 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |
| 9 | 49 | 36 | 28 | 23 | 46 | 34 | 27 | 22 | 30 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 13 |
| 10 | 46 | 33 | 26 | 21 | 43 | 31 | 24 | 20 | 27 | 22 | 18 | 24 | 19 | 16 | 20 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14928 | 14928 | 14928 |
| 5° | 15002 | 14370 | 14315 |
| 10° | 14907 | 13945 | 13789 |
| 15° | 14701 | 13496 | 13236 |
| 20° | 14442 | 13015 | 12701 |
| 25° | 14187 | 12551 | 12216 |
| 30° | 13824 | 12074 | 11729 |
| 35° | 13459 | 11611 | 11386 |
| 40° | 13075 | 11219 | 11044 |
| 45° | 12709 | 10869 | 10750 |
| 50° | 12316 | 10551 | 10462 |
| 55° | 11908 | 10209 | 10166 |
| 60° | 11404 | 9856 | 9857 |
| 65° | 10880 | 9439 | 9485 |
| 70° | 10292 | 8992 | 9089 |
| 75° | 9539 | 8554 | 8722 |
| 80° | 8357 | 8107 | 8349 |
| 85° | 7227 | 7720 | 8061 |



TEST NUMBER: P331388-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.6 | 1.6 |
| 10°-20° | 251.2 | 4.6 |
| 20°-30° | 380.7 | 7.0 |
| 30°-40° | 463.7 | 8.5 |
| 40°-50° | 498.9 | 9.2 |
| 50°-60° | 484.5 | 8.9 |
| 60°-70° | 423.0 | 7.8 |
| 70°-80° | 325.7 | 6.0 |
| 80°-90° | 221.3 | 4.1 |
| 90°-100° | 193.8 | 3.6 |
| 100°-110° | 244.3 | 4.5 |
| 110°-120° | 302.2 | 5.6 |
| 120°-130° | 342.4 | 6.3 |
| 130°-140° | 355.8 | 6.5 |
| 140°-150° | 335.2 | 6.2 |
| 150°-160° | 278.7 | 5.1 |
| 160°-170° | 184.8 | 3.4 |
| 170°-180° | 64.6 | 1.2 |
| 0°-30° | 719.6 | 13.2 |
| 0°-40° | 1183.3 | 21.8 |
| 0°-60° | 2166.6 | 39.8 |
| 0°-90° | 3136.6 | 57.7 |
| 90°-120° | 740.2 | 13.6 |
| 90°-150° | 1773.7 | 32.6 |
| 90°-180° | 2302.0 | 42.3 |
| 0°-180° | 5438.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 925 | 925 | 925 | 925 | 925 | |
| 5° | 927 | 923 | 915 | 923 | 922 | 88 |
| 15° | 884 | 887 | 887 | 898 | 898 | 249 |
| 25° | 804 | 814 | 826 | 841 | 846 | 369 |
| 35° | 693 | 716 | 741 | 769 | 780 | 433 |
| 45° | 568 | 605 | 651 | 691 | 706 | 438 |
| 55° | 436 | 485 | 553 | 600 | 619 | 389 |
| 65° | 298 | 364 | 442 | 495 | 514 | 295 |
| 75° | 165 | 240 | 326 | 381 | 401 | 174 |
| 85° | 48 | 132 | 217 | 271 | 292 | 52 |
| 90° | 14 | 99 | 197 | 248 | 266 | 11 |
| 95° | 41 | 110 | 191 | 240 | 257 | 43 |
| 105° | 130 | 173 | 242 | 288 | 305 | 138 |
| 115° | 236 | 256 | 313 | 351 | 366 | 233 |
| 125° | 338 | 345 | 384 | 417 | 430 | 302 |
| 135° | 435 | 442 | 456 | 482 | 492 | 336 |
| 145° | 526 | 530 | 534 | 542 | 547 | 329 |
| 155° | 602 | 604 | 605 | 608 | 606 | 277 |
| 165° | 655 | 654 | 654 | 658 | 655 | 185 |
| 175° | 681 | 680 | 678 | 682 | 679 | 65 |
| 180° | 682 | 682 | 682 | 682 | 682 | |



TEST NUMBER: P331388-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 |
| 2.5° | 930.0 | 929.3 | 928.6 | 927.9 | 927.2 | 925.9 | 924.2 | 922.6 | 920.9 | 919.3 | 920.5 |
| 5° | 927.3 | 926.5 | 925.5 | 924.6 | 923.7 | 922.4 | 920.6 | 918.8 | 917.1 | 915.2 | 917.1 |
| 7.5° | 919.0 | 918.4 | 917.8 | 917.3 | 916.7 | 915.6 | 914.2 | 912.9 | 911.5 | 910.2 | 912.3 |
| 10° | 912.6 | 912.0 | 911.4 | 910.8 | 910.2 | 909.5 | 908.6 | 907.7 | 906.8 | 905.8 | 908.3 |
| 12.5° | 901.8 | 902.0 | 902.1 | 902.2 | 902.3 | 902.0 | 901.4 | 900.7 | 900.1 | 899.4 | 901.8 |
| 15° | 884.4 | 885.0 | 885.7 | 886.3 | 886.8 | 887.1 | 887.1 | 887.1 | 887.1 | 887.1 | 889.8 |
| 17.5° | 861.9 | 863.1 | 864.4 | 865.7 | 866.9 | 868.0 | 869.0 | 869.9 | 870.9 | 871.8 | 874.6 |
| 20° | 846.9 | 848.4 | 849.9 | 851.4 | 852.8 | 854.2 | 855.4 | 856.6 | 857.8 | 859.0 | 862.2 |
| 22.5° | 830.8 | 832.5 | 834.2 | 836.0 | 837.7 | 839.4 | 841.1 | 842.7 | 844.4 | 846.1 | 849.4 |
| 25° | 804.1 | 806.1 | 808.2 | 810.3 | 812.3 | 814.8 | 817.4 | 820.1 | 822.7 | 825.5 | 829.0 |
| 27.5° | 771.8 | 775.3 | 778.6 | 782.0 | 785.5 | 788.7 | 791.8 | 795.1 | 798.2 | 801.3 | 805.9 |
| 30° | 750.4 | 754.3 | 758.2 | 762.0 | 765.9 | 769.8 | 773.7 | 777.5 | 781.4 | 785.3 | 790.0 |
| 32.5° | 726.8 | 731.1 | 735.5 | 739.9 | 744.3 | 748.7 | 753.3 | 757.9 | 762.4 | 767.0 | 772.5 |
| 35° | 692.8 | 697.8 | 703.0 | 708.0 | 713.1 | 718.4 | 724.1 | 729.7 | 735.4 | 741.0 | 747.6 |
| 37.5° | 655.8 | 661.7 | 667.5 | 673.3 | 679.1 | 685.7 | 693.1 | 700.4 | 707.7 | 715.1 | 722.4 |
| 40° | 631.2 | 637.7 | 644.3 | 650.9 | 657.3 | 664.7 | 672.7 | 680.8 | 688.8 | 696.8 | 704.6 |
| 42.5° | 607.5 | 614.1 | 620.7 | 627.2 | 633.8 | 641.7 | 650.9 | 660.1 | 669.3 | 678.6 | 687.0 |
| 45° | 568.2 | 576.2 | 584.2 | 592.3 | 600.4 | 609.6 | 620.0 | 630.5 | 640.9 | 651.3 | 660.5 |
| 47.5° | 529.3 | 538.1 | 546.8 | 555.6 | 564.3 | 574.8 | 587.0 | 599.3 | 611.5 | 623.7 | 633.3 |
| 50° | 502.5 | 511.7 | 521.0 | 530.2 | 539.5 | 550.8 | 564.1 | 577.5 | 591.0 | 604.4 | 614.5 |
| 52.5° | 476.8 | 486.5 | 496.2 | 505.9 | 515.6 | 527.6 | 541.7 | 555.7 | 569.9 | 584.0 | 594.3 |
| 55° | 435.6 | 446.3 | 457.0 | 467.7 | 478.4 | 491.5 | 507.0 | 522.5 | 538.0 | 553.4 | 564.1 |
| 57.5° | 394.8 | 406.9 | 419.0 | 431.0 | 443.1 | 457.1 | 472.8 | 488.7 | 504.4 | 520.2 | 531.8 |
| 60° | 365.9 | 378.6 | 391.4 | 404.2 | 417.1 | 431.9 | 448.9 | 465.9 | 482.8 | 499.9 | 511.2 |
| 62.5° | 340.1 | 353.4 | 366.7 | 379.9 | 393.2 | 408.4 | 425.4 | 442.3 | 459.3 | 476.3 | 488.3 |
| 65° | 297.5 | 312.0 | 326.7 | 341.2 | 355.9 | 371.9 | 389.5 | 407.1 | 424.6 | 442.2 | 454.4 |
| 67.5° | 258.3 | 273.6 | 288.8 | 304.1 | 319.3 | 336.0 | 354.0 | 371.9 | 389.9 | 407.9 | 420.2 |
| 70° | 230.5 | 246.0 | 261.5 | 276.9 | 292.5 | 309.4 | 327.9 | 346.3 | 364.8 | 383.2 | 396.1 |
| 72.5° | 204.8 | 220.8 | 236.7 | 252.7 | 268.6 | 285.9 | 304.7 | 323.4 | 342.0 | 360.7 | 373.3 |
| 75° | 164.8 | 181.5 | 198.1 | 214.9 | 231.6 | 249.4 | 268.4 | 287.5 | 306.6 | 325.6 | 338.4 |
| 77.5° | 126.2 | 143.7 | 161.2 | 178.5 | 196.0 | 214.4 | 233.8 | 253.2 | 272.5 | 291.9 | 304.6 |
| 80° | 100.5 | 118.7 | 136.8 | 155.0 | 173.2 | 191.9 | 211.3 | 230.7 | 249.9 | 269.3 | 281.9 |
| 82.5° | 79.1 | 96.9 | 114.9 | 132.8 | 150.8 | 169.6 | 189.1 | 208.7 | 228.3 | 247.9 | 260.4 |
| 85° | 48.3 | 66.8 | 85.1 | 103.6 | 122.1 | 140.9 | 159.9 | 178.9 | 198.0 | 217.1 | 229.6 |
| 87.5° | 26.4 | 44.4 | 62.5 | 80.6 | 98.6 | 117.4 | 137.0 | 156.7 | 176.3 | 195.9 | 208.0 |
| 90° | 13.9 | 32.8 | 51.6 | 70.4 | 89.2 | 109.6 | 131.4 | 153.3 | 175.2 | 197.0 | 208.7 |
| 92.5° | 22.6 | 39.8 | 57.0 | 74.2 | 91.4 | 109.5 | 128.6 | 147.5 | 166.5 | 185.5 | 197.2 |
| 95° | 40.7 | 55.9 | 71.2 | 86.4 | 101.8 | 118.5 | 136.6 | 154.7 | 172.8 | 191.0 | 202.3 |
| 97.5° | 64.1 | 77.7 | 91.2 | 104.8 | 118.4 | 134.0 | 151.6 | 169.3 | 186.9 | 204.5 | 215.6 |
| 100° | 82.5 | 94.5 | 106.6 | 118.7 | 130.7 | 145.2 | 162.3 | 179.4 | 196.4 | 213.5 | 224.5 |
| 102.5° | 100.8 | 111.7 | 122.6 | 133.4 | 144.3 | 158.1 | 174.8 | 191.5 | 208.1 | 224.9 | 235.7 |
| 105° | 130.5 | 139.6 | 148.6 | 157.5 | 166.6 | 178.9 | 194.7 | 210.5 | 226.2 | 242.0 | 252.6 |
| 107.5° | 161.8 | 169.3 | 176.7 | 184.2 | 191.7 | 202.9 | 217.6 | 232.5 | 247.3 | 262.2 | 272.3 |
| 110° | 181.0 | 187.7 | 194.4 | 201.2 | 207.9 | 218.5 | 233.2 | 247.7 | 262.4 | 276.9 | 286.4 |



TEST NUMBER: P331388-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 203.1 | 208.8 | 214.7 | 220.5 | 226.2 | 236.0 | 249.7 | 263.5 | 277.3 | 291.0 | 300.3 |
| 115° | 235.7 | 239.7 | 243.8 | 247.8 | 251.9 | 260.4 | 273.6 | 286.8 | 299.9 | 313.1 | 321.8 |
| 117.5° | 266.8 | 270.0 | 273.2 | 276.4 | 279.5 | 286.9 | 298.6 | 310.2 | 321.9 | 333.7 | 342.1 |
| 120° | 288.5 | 290.7 | 293.0 | 295.2 | 297.4 | 303.9 | 314.8 | 325.7 | 336.6 | 347.5 | 355.8 |
| 122.5° | 308.3 | 310.0 | 311.7 | 313.5 | 315.2 | 321.2 | 331.7 | 342.1 | 352.6 | 363.1 | 370.9 |
| 125° | 337.8 | 339.0 | 340.1 | 341.3 | 342.4 | 347.6 | 356.8 | 365.9 | 375.1 | 384.2 | 391.8 |
| 127.5° | 367.9 | 369.1 | 370.2 | 371.4 | 372.5 | 376.8 | 384.0 | 391.2 | 398.4 | 405.7 | 412.5 |
| 130° | 386.8 | 388.2 | 389.5 | 390.9 | 392.2 | 396.0 | 401.9 | 407.9 | 413.9 | 419.9 | 426.8 |
| 132.5° | 408.0 | 409.0 | 410.1 | 411.1 | 412.2 | 415.2 | 420.1 | 425.0 | 429.8 | 434.6 | 441.0 |
| 135° | 434.9 | 436.4 | 437.8 | 439.2 | 440.6 | 442.9 | 446.2 | 449.4 | 452.6 | 455.9 | 462.0 |
| 137.5° | 464.8 | 465.9 | 467.0 | 468.1 | 469.2 | 470.5 | 472.2 | 473.8 | 475.4 | 477.1 | 482.5 |
| 140° | 482.8 | 483.6 | 484.4 | 485.3 | 486.1 | 487.3 | 488.5 | 489.7 | 490.9 | 492.2 | 497.0 |
| 142.5° | 501.2 | 502.0 | 502.9 | 503.7 | 504.6 | 505.3 | 505.8 | 506.4 | 507.0 | 507.6 | 511.4 |
| 145° | 526.3 | 527.3 | 528.2 | 529.1 | 530.0 | 530.8 | 531.5 | 532.3 | 533.1 | 533.8 | 535.7 |
| 147.5° | 550.0 | 551.0 | 552.1 | 553.2 | 554.2 | 555.0 | 555.5 | 556.0 | 556.5 | 557.1 | 557.6 |
| 150° | 566.1 | 566.8 | 567.6 | 568.4 | 569.2 | 569.8 | 570.3 | 570.8 | 571.3 | 571.9 | 572.2 |
| 152.5° | 580.4 | 581.2 | 581.9 | 582.7 | 583.4 | 584.1 | 584.7 | 585.3 | 585.9 | 586.6 | 587.0 |
| 155° | 601.8 | 602.2 | 602.6 | 602.9 | 603.3 | 603.7 | 604.1 | 604.5 | 604.8 | 605.2 | 605.9 |
| 157.5° | 620.1 | 620.4 | 620.6 | 620.9 | 621.2 | 621.4 | 621.6 | 621.9 | 622.1 | 622.3 | 623.2 |
| 160° | 631.2 | 631.4 | 631.7 | 631.9 | 632.2 | 632.4 | 632.5 | 632.6 | 632.8 | 632.9 | 633.7 |
| 162.5° | 641.3 | 641.4 | 641.4 | 641.5 | 641.5 | 641.6 | 641.7 | 641.9 | 642.0 | 642.1 | 643.0 |
| 165° | 654.8 | 654.6 | 654.5 | 654.4 | 654.3 | 654.2 | 654.2 | 654.2 | 654.2 | 654.2 | 655.1 |
| 167.5° | 666.0 | 665.7 | 665.3 | 664.9 | 664.5 | 664.3 | 664.3 | 664.3 | 664.2 | 664.2 | 665.1 |
| 170° | 672.1 | 671.7 | 671.3 | 670.9 | 670.6 | 670.2 | 670.1 | 669.9 | 669.8 | 669.7 | 670.7 |
| 172.5° | 676.2 | 675.8 | 675.4 | 675.0 | 674.7 | 674.4 | 674.3 | 674.2 | 674.0 | 673.9 | 674.8 |
| 175° | 681.3 | 680.9 | 680.4 | 680.1 | 679.7 | 679.4 | 679.1 | 678.9 | 678.6 | 678.3 | 679.2 |
| 177.5° | 683.4 | 683.0 | 682.7 | 682.4 | 682.1 | 681.9 | 681.7 | 681.5 | 681.3 | 681.1 | 681.7 |
| 180° | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 |



TEST NUMBER: P331388-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 |
| 2.5° | 921.6 | 922.8 | 924.0 | 924.4 | 923.9 | 923.4 | 922.9 | 922.5 |
| 5° | 918.8 | 920.6 | 922.4 | 923.1 | 922.8 | 922.5 | 922.2 | 921.9 |
| 7.5° | 914.4 | 916.6 | 918.8 | 919.7 | 919.4 | 919.1 | 918.8 | 918.5 |
| 10° | 910.6 | 913.0 | 915.4 | 916.5 | 916.1 | 915.8 | 915.5 | 915.2 |
| 12.5° | 904.2 | 906.6 | 909.0 | 910.0 | 909.7 | 909.4 | 909.1 | 908.8 |
| 15° | 892.4 | 895.1 | 897.9 | 899.0 | 898.7 | 898.4 | 898.1 | 897.9 |
| 17.5° | 877.5 | 880.2 | 883.0 | 884.4 | 884.4 | 884.4 | 884.4 | 884.4 |
| 20° | 865.6 | 868.8 | 872.0 | 873.7 | 873.7 | 873.7 | 873.7 | 873.7 |
| 22.5° | 852.6 | 856.0 | 859.2 | 861.1 | 861.5 | 862.0 | 862.5 | 863.0 |
| 25° | 832.6 | 836.2 | 839.8 | 842.0 | 842.8 | 843.7 | 844.7 | 845.6 |
| 27.5° | 810.4 | 815.0 | 819.4 | 822.0 | 822.7 | 823.3 | 824.0 | 824.7 |
| 30° | 794.8 | 799.5 | 804.4 | 807.2 | 808.0 | 808.9 | 809.8 | 810.7 |
| 32.5° | 778.0 | 783.5 | 788.9 | 792.5 | 794.1 | 795.7 | 797.3 | 798.9 |
| 35° | 754.2 | 760.7 | 767.3 | 771.5 | 773.7 | 775.8 | 777.8 | 779.9 |
| 37.5° | 729.5 | 736.8 | 744.1 | 748.8 | 751.0 | 753.3 | 755.5 | 757.7 |
| 40° | 712.3 | 720.0 | 727.8 | 733.0 | 735.7 | 738.3 | 741.0 | 743.8 |
| 42.5° | 695.5 | 704.0 | 712.5 | 718.0 | 720.6 | 723.4 | 726.0 | 728.7 |
| 45° | 669.7 | 678.9 | 688.2 | 694.3 | 697.3 | 700.2 | 703.3 | 706.2 |
| 47.5° | 643.0 | 652.6 | 662.3 | 668.7 | 672.0 | 675.3 | 678.5 | 681.9 |
| 50° | 624.6 | 634.7 | 644.9 | 651.6 | 654.8 | 658.1 | 661.4 | 664.7 |
| 52.5° | 604.7 | 615.1 | 625.4 | 632.4 | 635.9 | 639.4 | 642.9 | 646.4 |
| 55° | 574.9 | 585.6 | 596.3 | 603.6 | 607.4 | 611.4 | 615.2 | 619.0 |
| 57.5° | 543.3 | 554.8 | 566.4 | 574.2 | 578.0 | 582.0 | 585.9 | 589.9 |
| 60° | 522.5 | 533.8 | 545.1 | 552.8 | 557.0 | 561.2 | 565.3 | 569.6 |
| 62.5° | 500.3 | 512.3 | 524.3 | 532.4 | 536.2 | 540.2 | 544.1 | 548.1 |
| 65° | 466.7 | 478.9 | 491.1 | 499.1 | 502.9 | 506.9 | 510.7 | 514.5 |
| 67.5° | 432.5 | 444.8 | 457.3 | 465.4 | 469.5 | 473.5 | 477.6 | 481.6 |
| 70° | 408.9 | 421.6 | 434.4 | 442.6 | 446.3 | 449.8 | 453.4 | 457.0 |
| 72.5° | 385.9 | 398.4 | 411.0 | 419.4 | 423.7 | 428.0 | 432.3 | 436.6 |
| 75° | 351.2 | 364.1 | 376.9 | 385.2 | 389.1 | 392.9 | 396.8 | 400.7 |
| 77.5° | 317.4 | 330.1 | 342.8 | 351.3 | 355.5 | 359.6 | 363.9 | 368.0 |
| 80° | 294.4 | 306.9 | 319.4 | 327.7 | 331.8 | 336.1 | 340.2 | 344.4 |
| 82.5° | 273.0 | 285.4 | 297.9 | 306.2 | 310.1 | 314.0 | 317.9 | 321.8 |
| 85° | 242.1 | 254.6 | 267.1 | 275.5 | 279.6 | 283.8 | 287.9 | 292.2 |
| 87.5° | 220.2 | 232.3 | 244.3 | 252.3 | 256.1 | 259.9 | 263.8 | 267.6 |
| 90° | 220.4 | 232.0 | 243.7 | 251.4 | 255.1 | 258.7 | 262.5 | 266.1 |
| 92.5° | 209.0 | 220.8 | 232.5 | 240.1 | 243.7 | 247.3 | 251.0 | 254.5 |
| 95° | 213.6 | 224.9 | 236.2 | 243.6 | 246.8 | 250.1 | 253.5 | 256.8 |
| 97.5° | 226.6 | 237.6 | 248.6 | 255.9 | 259.3 | 262.9 | 266.3 | 269.8 |
| 100° | 235.5 | 246.5 | 257.5 | 264.6 | 267.8 | 270.9 | 274.1 | 277.2 |
| 102.5° | 246.6 | 257.5 | 268.4 | 275.4 | 278.5 | 281.7 | 284.9 | 288.0 |
| 105° | 263.3 | 274.0 | 284.7 | 291.6 | 294.9 | 298.2 | 301.4 | 304.8 |
| 107.5° | 282.4 | 292.5 | 302.6 | 309.0 | 311.6 | 314.4 | 317.1 | 319.7 |
| 110° | 296.0 | 305.5 | 315.1 | 321.2 | 324.2 | 327.0 | 329.9 | 332.9 |



TEST NUMBER: P331388-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 309.5 | 318.7 | 328.0 | 334.1 | 337.1 | 340.0 | 343.1 | 346.1 |
| 115° | 330.6 | 339.5 | 348.3 | 354.2 | 357.0 | 359.9 | 362.8 | 365.7 |
| 117.5° | 350.6 | 359.1 | 367.7 | 373.2 | 375.9 | 378.5 | 381.2 | 383.8 |
| 120° | 364.2 | 372.4 | 380.8 | 386.5 | 389.3 | 392.2 | 395.1 | 398.0 |
| 122.5° | 378.7 | 386.5 | 394.4 | 399.5 | 402.0 | 404.6 | 407.0 | 409.5 |
| 125° | 399.5 | 407.2 | 414.8 | 419.9 | 422.4 | 425.1 | 427.6 | 430.1 |
| 127.5° | 419.5 | 426.4 | 433.3 | 437.9 | 440.1 | 442.3 | 444.5 | 446.8 |
| 130° | 433.7 | 440.6 | 447.5 | 451.9 | 453.7 | 455.7 | 457.5 | 459.4 |
| 132.5° | 447.4 | 453.7 | 460.1 | 464.2 | 466.2 | 468.2 | 470.1 | 472.1 |
| 135° | 468.1 | 474.2 | 480.4 | 484.4 | 486.5 | 488.4 | 490.4 | 492.4 |
| 137.5° | 487.9 | 493.2 | 498.6 | 502.1 | 503.6 | 505.1 | 506.6 | 508.1 |
| 140° | 501.7 | 506.4 | 511.2 | 514.2 | 515.5 | 516.7 | 518.1 | 519.4 |
| 142.5° | 515.3 | 519.3 | 523.2 | 525.6 | 526.7 | 527.8 | 528.8 | 529.8 |
| 145° | 537.7 | 539.6 | 541.5 | 542.9 | 543.9 | 544.9 | 545.8 | 546.8 |
| 147.5° | 558.2 | 558.7 | 559.2 | 559.6 | 559.8 | 560.0 | 560.3 | 560.5 |
| 150° | 572.6 | 573.0 | 573.4 | 573.4 | 573.0 | 572.6 | 572.2 | 571.9 |
| 152.5° | 587.5 | 588.0 | 588.5 | 588.5 | 588.0 | 587.5 | 587.0 | 586.6 |
| 155° | 606.5 | 607.1 | 607.8 | 607.9 | 607.5 | 607.1 | 606.7 | 606.4 |
| 157.5° | 624.0 | 624.9 | 625.8 | 625.9 | 625.3 | 624.7 | 624.1 | 623.4 |
| 160° | 634.4 | 635.2 | 635.9 | 636.1 | 635.6 | 635.1 | 634.5 | 634.0 |
| 162.5° | 643.8 | 644.7 | 645.6 | 645.7 | 645.1 | 644.5 | 643.9 | 643.3 |
| 165° | 656.0 | 656.9 | 657.7 | 657.9 | 657.2 | 656.6 | 656.0 | 655.3 |
| 167.5° | 666.0 | 666.9 | 667.8 | 667.9 | 667.2 | 666.6 | 665.9 | 665.2 |
| 170° | 671.6 | 672.5 | 673.3 | 673.4 | 672.6 | 671.9 | 671.1 | 670.3 |
| 172.5° | 675.7 | 676.6 | 677.4 | 677.5 | 676.8 | 676.0 | 675.2 | 674.5 |
| 175° | 680.1 | 681.1 | 682.0 | 682.1 | 681.3 | 680.4 | 679.7 | 678.9 |
| 177.5° | 682.3 | 682.9 | 683.5 | 683.5 | 682.9 | 682.3 | 681.7 | 681.1 |
| 180° | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 |

(END OF REPORT)