

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: P331656-840

Luminaire Tested: **SA2XXRDIP-C485D530U840-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331656-840
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-C485D530U840-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

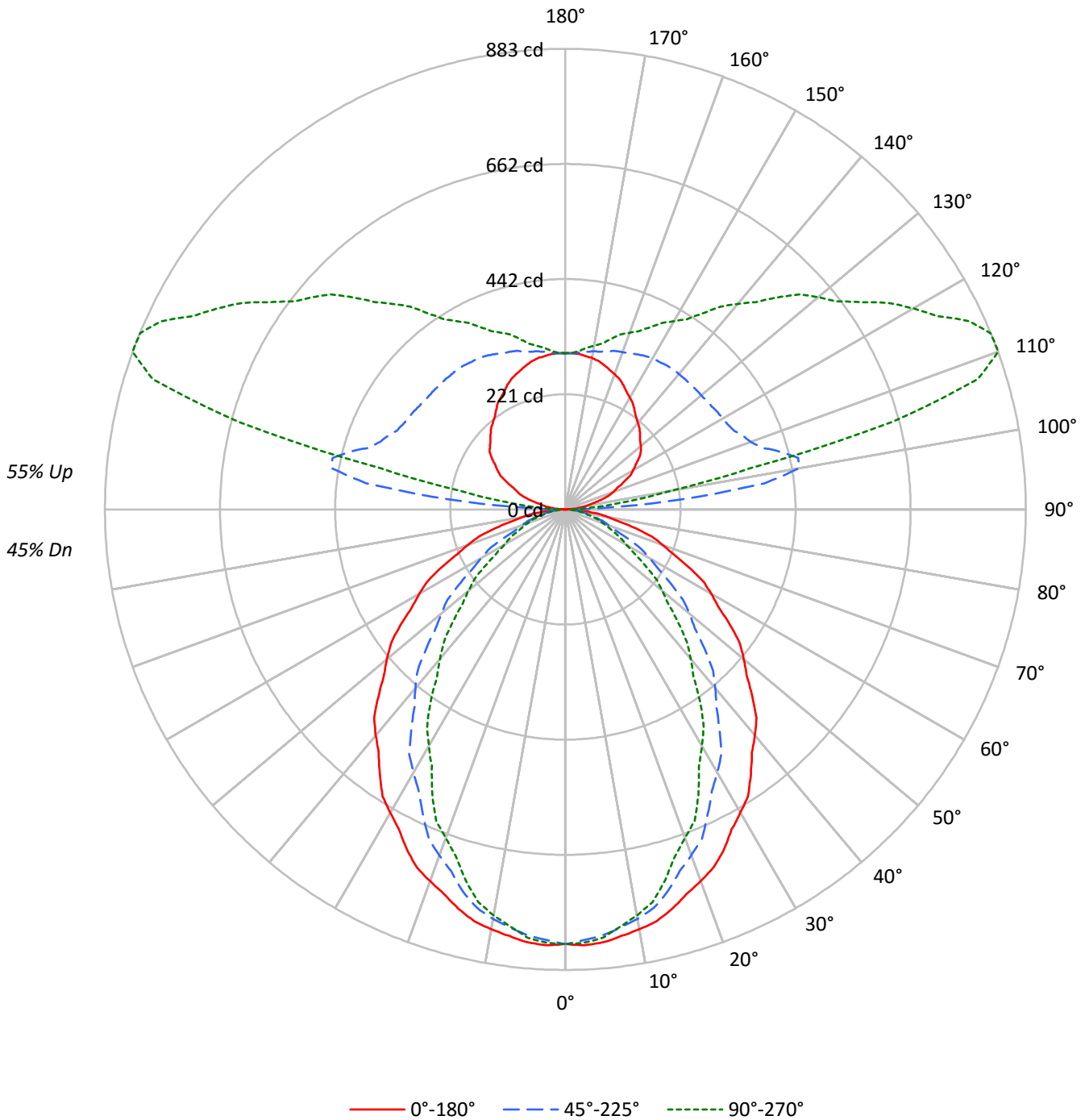
Lumens per Lamp: N/A
Luminaire Lumens: 3800.7 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.8
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: P331656-840
CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331656-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-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 | 45 | | | | |
| 1 | 97 | 93 | 89 | 86 | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 57 | 55 | 46 | 45 | 44 | 39 | | | | |
| 2 | 89 | 82 | 76 | 71 | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 52 | 49 | 47 | 41 | 40 | 38 | 33 | | | | |
| 3 | 81 | 72 | 65 | 60 | 74 | 67 | 60 | 56 | 56 | 51 | 48 | 46 | 43 | 40 | 37 | 35 | 33 | 29 | | | | |
| 4 | 75 | 64 | 57 | 51 | 68 | 59 | 53 | 47 | 50 | 45 | 41 | 41 | 38 | 35 | 33 | 31 | 29 | 25 | | | | |
| 5 | 69 | 57 | 49 | 44 | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 37 | 33 | 30 | 30 | 27 | 25 | 22 | | | | |
| 6 | 63 | 52 | 44 | 38 | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 22 | 20 | | | | |
| 7 | 59 | 47 | 39 | 34 | 54 | 43 | 36 | 32 | 37 | 32 | 28 | 31 | 27 | 24 | 25 | 22 | 20 | 17 | | | | |
| 8 | 54 | 42 | 35 | 30 | 50 | 39 | 33 | 28 | 34 | 28 | 25 | 28 | 24 | 21 | 23 | 20 | 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° | 13454 | 13454 | 13454 |
| 5° | 13506 | 13287 | 13361 |
| 10° | 13404 | 13070 | 12959 |
| 15° | 13249 | 12682 | 12318 |
| 20° | 13036 | 12129 | 11519 |
| 25° | 12818 | 11501 | 10750 |
| 30° | 12515 | 10856 | 9758 |
| 35° | 12220 | 10153 | 8889 |
| 40° | 11921 | 9428 | 7885 |
| 45° | 11574 | 8611 | 6976 |
| 50° | 11215 | 7784 | 6081 |
| 55° | 10849 | 6899 | 5222 |
| 60° | 10424 | 5968 | 4334 |
| 65° | 9941 | 5012 | 3947 |
| 70° | 9361 | 4131 | 3635 |
| 75° | 8659 | 3762 | 3387 |
| 80° | 7643 | 3366 | 3087 |
| 85° | 6002 | 2649 | 2649 |



TEST NUMBER: P331656-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.0 | 2.1 |
| 10°-20° | 214.2 | 5.6 |
| 20°-30° | 300.8 | 7.9 |
| 30°-40° | 328.0 | 8.6 |
| 40°-50° | 301.6 | 7.9 |
| 50°-60° | 236.8 | 6.2 |
| 60°-70° | 154.4 | 4.1 |
| 70°-80° | 79.6 | 2.1 |
| 80°-90° | 23.4 | 0.6 |
| 90°-100° | 119.7 | 3.2 |
| 100°-110° | 406.3 | 10.7 |
| 110°-120° | 431.7 | 11.4 |
| 120°-130° | 355.4 | 9.3 |
| 130°-140° | 285.4 | 7.5 |
| 140°-150° | 215.7 | 5.7 |
| 150°-160° | 151.6 | 4.0 |
| 160°-170° | 89.2 | 2.3 |
| 170°-180° | 29.0 | 0.8 |
| 0°-30° | 593.0 | 15.6 |
| 0°-40° | 921.0 | 24.2 |
| 0°-60° | 1459.4 | 38.4 |
| 0°-90° | 1716.8 | 45.2 |
| 90°-120° | 957.8 | 25.2 |
| 90°-150° | 1814.1 | 47.7 |
| 90°-180° | 2084.0 | 54.8 |
| 0°-180° | 3800.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 833 | 833 | 833 | 833 | 833 | |
| 5° | 833 | 829 | 820 | 826 | 824 | 79 |
| 15° | 793 | 783 | 759 | 745 | 737 | 223 |
| 25° | 720 | 694 | 646 | 616 | 603 | 331 |
| 35° | 620 | 580 | 515 | 469 | 451 | 388 |
| 45° | 507 | 455 | 377 | 326 | 306 | 391 |
| 55° | 385 | 325 | 245 | 202 | 186 | 344 |
| 65° | 260 | 199 | 131 | 107 | 103 | 258 |
| 75° | 139 | 87 | 60 | 55 | 54 | 147 |
| 85° | 32 | 17 | 14 | 14 | 14 | 38 |
| 90° | 1 | 8 | 20 | 19 | 19 | 2 |
| 95° | 20 | 50 | 226 | 85 | 66 | 21 |
| 105° | 70 | 106 | 427 | 763 | 649 | 75 |
| 115° | 124 | 156 | 357 | 737 | 854 | 123 |
| 125° | 173 | 204 | 343 | 597 | 693 | 153 |
| 135° | 203 | 242 | 339 | 502 | 574 | 157 |
| 145° | 232 | 266 | 338 | 419 | 458 | 145 |
| 155° | 263 | 284 | 328 | 371 | 385 | 121 |
| 165° | 287 | 295 | 314 | 333 | 338 | 81 |
| 175° | 299 | 299 | 302 | 306 | 305 | 28 |
| 180° | 299 | 299 | 299 | 299 | 299 | |



TEST NUMBER: P331656-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 |
| 2.5° | 836.4 | 835.8 | 835.1 | 834.4 | 833.7 | 832.6 | 831.2 | 829.7 | 828.2 | 826.8 | 828.1 |
| 5° | 833.3 | 832.5 | 831.7 | 830.9 | 830.0 | 828.5 | 826.4 | 824.2 | 822.0 | 819.8 | 821.3 |
| 7.5° | 824.8 | 823.7 | 822.7 | 821.6 | 820.6 | 818.8 | 816.3 | 813.7 | 811.2 | 808.7 | 809.1 |
| 10° | 817.6 | 816.4 | 815.2 | 814.1 | 812.8 | 810.6 | 807.3 | 803.9 | 800.5 | 797.2 | 796.7 |
| 12.5° | 808.5 | 807.1 | 805.6 | 804.2 | 802.7 | 799.9 | 795.6 | 791.3 | 787.0 | 782.7 | 781.8 |
| 15° | 792.6 | 790.8 | 789.0 | 787.1 | 785.3 | 781.5 | 775.8 | 770.1 | 764.5 | 758.7 | 755.6 |
| 17.5° | 773.3 | 770.4 | 767.6 | 764.8 | 761.9 | 756.9 | 749.6 | 742.3 | 735.0 | 727.6 | 723.9 |
| 20° | 758.7 | 755.4 | 752.0 | 748.7 | 745.3 | 739.4 | 731.0 | 722.7 | 714.3 | 705.9 | 701.8 |
| 22.5° | 743.1 | 739.3 | 735.5 | 731.7 | 728.0 | 721.4 | 712.0 | 702.5 | 693.1 | 683.6 | 678.2 |
| 25° | 719.5 | 714.2 | 708.8 | 703.4 | 698.0 | 689.8 | 678.7 | 667.7 | 656.6 | 645.6 | 638.7 |
| 27.5° | 691.2 | 685.3 | 679.4 | 673.7 | 667.8 | 658.6 | 646.2 | 633.7 | 621.3 | 608.7 | 600.8 |
| 30° | 671.3 | 664.9 | 658.5 | 652.2 | 645.8 | 635.9 | 622.5 | 609.0 | 595.6 | 582.3 | 573.7 |
| 32.5° | 652.0 | 644.5 | 637.0 | 629.7 | 622.2 | 611.6 | 597.9 | 584.2 | 570.6 | 556.9 | 547.1 |
| 35° | 620.0 | 611.4 | 602.9 | 594.3 | 585.7 | 574.1 | 559.4 | 544.6 | 529.9 | 515.1 | 504.5 |
| 37.5° | 587.9 | 578.6 | 569.2 | 559.8 | 550.5 | 537.9 | 522.2 | 506.4 | 490.7 | 475.0 | 463.3 |
| 40° | 565.6 | 555.6 | 545.5 | 535.5 | 525.4 | 512.3 | 496.0 | 479.8 | 463.5 | 447.3 | 435.4 |
| 42.5° | 542.7 | 532.1 | 521.5 | 511.0 | 500.4 | 486.7 | 469.9 | 453.0 | 436.3 | 419.5 | 407.2 |
| 45° | 506.9 | 495.6 | 484.3 | 473.1 | 461.9 | 447.5 | 429.9 | 412.3 | 394.7 | 377.1 | 365.2 |
| 47.5° | 471.8 | 459.9 | 448.1 | 436.2 | 424.2 | 409.2 | 391.0 | 372.8 | 354.7 | 336.5 | 324.7 |
| 50° | 446.5 | 434.5 | 422.7 | 410.8 | 398.9 | 383.7 | 365.3 | 346.9 | 328.4 | 309.9 | 298.4 |
| 52.5° | 421.7 | 409.3 | 396.9 | 384.5 | 372.0 | 356.8 | 338.7 | 320.7 | 302.7 | 284.7 | 273.5 |
| 55° | 385.4 | 372.3 | 359.2 | 346.2 | 333.2 | 317.5 | 299.4 | 281.3 | 263.2 | 245.1 | 235.1 |
| 57.5° | 348.1 | 334.8 | 321.3 | 307.9 | 294.5 | 279.1 | 261.8 | 244.3 | 226.9 | 209.5 | 200.3 |
| 60° | 322.8 | 309.4 | 296.0 | 282.6 | 269.1 | 253.9 | 236.6 | 219.3 | 202.1 | 184.8 | 176.2 |
| 62.5° | 298.0 | 284.7 | 271.2 | 257.8 | 244.4 | 229.5 | 213.1 | 196.6 | 180.2 | 163.7 | 155.5 |
| 65° | 260.2 | 246.6 | 233.1 | 219.4 | 205.9 | 191.6 | 176.5 | 161.4 | 146.3 | 131.2 | 125.5 |
| 67.5° | 223.7 | 210.3 | 196.7 | 183.3 | 169.8 | 156.2 | 142.7 | 129.2 | 115.5 | 102.0 | 99.4 |
| 70° | 198.3 | 185.3 | 172.2 | 159.2 | 146.0 | 133.7 | 122.2 | 110.6 | 99.1 | 87.5 | 85.8 |
| 72.5° | 174.2 | 161.7 | 149.2 | 136.6 | 124.1 | 113.2 | 103.9 | 94.6 | 85.3 | 76.0 | 74.6 |
| 75° | 138.8 | 127.0 | 115.3 | 103.6 | 91.8 | 83.1 | 77.5 | 71.7 | 66.0 | 60.3 | 59.2 |
| 77.5° | 103.9 | 93.6 | 83.3 | 73.0 | 62.8 | 56.2 | 53.5 | 50.8 | 48.0 | 45.2 | 44.5 |
| 80° | 82.2 | 73.6 | 65.1 | 56.6 | 48.0 | 42.9 | 41.2 | 39.6 | 37.9 | 36.2 | 35.5 |
| 82.5° | 62.3 | 55.6 | 49.0 | 42.3 | 35.6 | 31.7 | 30.6 | 29.4 | 28.3 | 27.2 | 26.8 |
| 85° | 32.4 | 28.9 | 25.3 | 21.9 | 18.4 | 16.4 | 15.9 | 15.3 | 14.8 | 14.3 | 14.3 |
| 87.5° | 9.8 | 9.1 | 8.4 | 7.6 | 6.8 | 6.6 | 7.2 | 8.0 | 8.6 | 8.8 | 8.5 |
| 90° | 0.6 | 2.3 | 4.6 | 5.8 | 6.9 | 8.7 | 11.5 | 15.6 | 19.0 | 19.6 | 19.0 |
| 92.5° | 7.1 | 10.1 | 14.2 | 16.9 | 20.7 | 26.2 | 39.2 | 57.5 | 73.8 | 74.8 | 63.2 |
| 95° | 20.2 | 22.4 | 28.2 | 33.4 | 42.6 | 56.5 | 82.9 | 133.0 | 199.9 | 225.8 | 197.5 |
| 97.5° | 32.8 | 36.0 | 42.0 | 49.9 | 60.5 | 76.1 | 109.5 | 179.3 | 290.2 | 385.4 | 404.2 |
| 100° | 44.3 | 46.0 | 51.3 | 60.5 | 72.0 | 88.2 | 118.7 | 188.9 | 313.3 | 454.9 | 537.9 |
| 102.5° | 54.9 | 56.2 | 61.4 | 70.6 | 82.6 | 98.7 | 126.9 | 189.3 | 304.6 | 457.3 | 587.6 |
| 105° | 70.3 | 72.6 | 76.5 | 85.2 | 97.9 | 114.0 | 141.1 | 192.4 | 287.4 | 426.8 | 580.0 |
| 107.5° | 86.8 | 88.7 | 92.6 | 100.6 | 113.1 | 129.4 | 155.6 | 200.3 | 278.8 | 394.0 | 529.4 |
| 110° | 97.9 | 100.2 | 103.7 | 111.2 | 123.2 | 140.0 | 165.3 | 206.7 | 277.0 | 378.4 | 497.6 |



TEST NUMBER: P331656-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 108.1 | 110.4 | 114.2 | 121.3 | 132.9 | 150.1 | 174.5 | 213.7 | 277.5 | 368.2 | 475.4 |
| 115° | 123.8 | 126.7 | 130.2 | 137.0 | 148.6 | 164.1 | 188.9 | 224.0 | 279.9 | 357.1 | 448.1 |
| 117.5° | 140.2 | 142.5 | 145.9 | 152.1 | 163.1 | 179.3 | 202.2 | 235.1 | 284.1 | 351.6 | 430.8 |
| 120° | 150.3 | 152.6 | 156.0 | 161.3 | 172.8 | 188.9 | 211.4 | 242.5 | 286.8 | 348.4 | 421.6 |
| 122.5° | 160.0 | 161.9 | 165.3 | 171.0 | 182.5 | 199.0 | 220.2 | 248.9 | 290.0 | 346.6 | 413.7 |
| 125° | 172.8 | 174.5 | 177.9 | 184.9 | 196.4 | 212.5 | 233.3 | 259.1 | 294.9 | 343.3 | 402.5 |
| 127.5° | 182.9 | 185.2 | 190.1 | 197.6 | 208.7 | 225.3 | 245.5 | 268.7 | 299.8 | 341.3 | 392.2 |
| 130° | 188.9 | 191.2 | 196.9 | 205.0 | 216.5 | 232.7 | 252.9 | 274.7 | 303.5 | 340.3 | 385.3 |
| 132.5° | 194.4 | 197.2 | 203.4 | 212.0 | 223.9 | 240.0 | 259.2 | 280.7 | 307.2 | 339.9 | 379.7 |
| 135° | 202.7 | 205.0 | 212.0 | 220.6 | 233.8 | 249.9 | 268.4 | 288.5 | 311.5 | 339.2 | 372.0 |
| 137.5° | 210.6 | 213.3 | 220.3 | 229.4 | 242.6 | 257.5 | 275.8 | 294.5 | 315.5 | 339.1 | 366.6 |
| 140° | 216.5 | 218.8 | 225.8 | 235.0 | 247.6 | 262.7 | 279.9 | 297.7 | 317.3 | 338.6 | 363.5 |
| 142.5° | 222.6 | 224.4 | 230.9 | 240.0 | 252.3 | 266.3 | 283.2 | 300.5 | 318.7 | 338.6 | 360.2 |
| 145° | 231.6 | 233.8 | 239.5 | 248.2 | 259.7 | 272.4 | 287.9 | 304.1 | 320.2 | 337.5 | 355.9 |
| 147.5° | 241.2 | 242.9 | 248.4 | 256.4 | 266.0 | 277.2 | 291.9 | 306.1 | 320.6 | 335.4 | 351.5 |
| 150° | 247.6 | 249.3 | 254.0 | 261.5 | 270.1 | 280.4 | 293.7 | 307.0 | 320.2 | 334.1 | 347.9 |
| 152.5° | 254.1 | 254.9 | 259.5 | 266.1 | 274.3 | 283.7 | 295.6 | 307.4 | 319.3 | 331.7 | 344.7 |
| 155° | 263.2 | 263.8 | 267.2 | 273.6 | 279.9 | 288.5 | 298.3 | 308.1 | 317.9 | 327.7 | 338.6 |
| 157.5° | 270.7 | 271.4 | 274.2 | 279.6 | 284.8 | 292.0 | 300.2 | 308.1 | 315.3 | 323.6 | 333.0 |
| 160° | 275.9 | 276.4 | 278.7 | 283.4 | 287.9 | 294.3 | 301.2 | 308.1 | 313.9 | 320.8 | 328.8 |
| 162.5° | 280.9 | 280.5 | 282.9 | 286.6 | 290.7 | 295.7 | 301.6 | 307.6 | 312.5 | 318.5 | 325.2 |
| 165° | 286.8 | 286.2 | 287.4 | 290.8 | 293.7 | 297.2 | 302.4 | 306.4 | 309.8 | 313.9 | 319.0 |
| 167.5° | 291.6 | 290.9 | 292.0 | 294.2 | 296.3 | 298.4 | 302.3 | 305.6 | 307.2 | 309.8 | 313.1 |
| 170° | 294.9 | 293.7 | 294.3 | 296.0 | 297.2 | 298.9 | 301.7 | 304.7 | 305.8 | 307.5 | 309.8 |
| 172.5° | 296.7 | 296.0 | 295.7 | 297.4 | 298.1 | 299.3 | 301.3 | 303.3 | 304.0 | 304.8 | 306.6 |
| 175° | 298.9 | 298.3 | 297.7 | 298.9 | 298.9 | 299.4 | 300.6 | 301.7 | 301.2 | 301.7 | 302.4 |
| 177.5° | 299.9 | 299.0 | 298.5 | 299.4 | 299.4 | 299.4 | 299.9 | 300.8 | 299.9 | 299.4 | 299.9 |
| 180° | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 |



TEST NUMBER: P331656-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 |
| 2.5° | 829.4 | 830.8 | 832.1 | 832.6 | 832.4 | 832.1 | 831.8 | 831.6 |
| 5° | 822.8 | 824.4 | 825.9 | 826.4 | 825.9 | 825.4 | 824.9 | 824.4 |
| 7.5° | 809.5 | 809.9 | 810.4 | 810.2 | 809.3 | 808.4 | 807.6 | 806.7 |
| 10° | 796.2 | 795.7 | 795.2 | 794.5 | 793.5 | 792.4 | 791.4 | 790.4 |
| 12.5° | 780.9 | 780.0 | 779.1 | 777.8 | 776.1 | 774.5 | 772.7 | 771.1 |
| 15° | 752.3 | 749.2 | 746.0 | 743.6 | 741.8 | 740.2 | 738.5 | 736.9 |
| 17.5° | 720.0 | 716.3 | 712.5 | 709.1 | 706.3 | 703.4 | 700.5 | 697.6 |
| 20° | 697.5 | 693.4 | 689.1 | 685.2 | 681.6 | 677.8 | 674.2 | 670.4 |
| 22.5° | 672.8 | 667.4 | 662.1 | 657.9 | 655.2 | 652.5 | 649.7 | 646.9 |
| 25° | 631.9 | 625.0 | 618.1 | 613.4 | 610.9 | 608.3 | 605.9 | 603.4 |
| 27.5° | 592.8 | 584.7 | 576.7 | 570.8 | 566.7 | 562.8 | 558.8 | 554.8 |
| 30° | 565.1 | 556.6 | 548.1 | 541.5 | 536.9 | 532.5 | 528.0 | 523.4 |
| 32.5° | 537.3 | 527.7 | 517.9 | 510.9 | 506.6 | 502.4 | 498.1 | 493.8 |
| 35° | 494.0 | 483.4 | 472.9 | 465.7 | 462.1 | 458.4 | 454.7 | 451.0 |
| 37.5° | 451.7 | 440.1 | 428.5 | 420.5 | 416.4 | 412.1 | 407.9 | 403.6 |
| 40° | 423.4 | 411.5 | 399.6 | 391.5 | 387.2 | 382.8 | 378.4 | 374.1 |
| 42.5° | 394.9 | 382.5 | 370.3 | 362.0 | 357.8 | 353.6 | 349.3 | 345.1 |
| 45° | 353.3 | 341.4 | 329.5 | 321.5 | 317.5 | 313.5 | 309.4 | 305.5 |
| 47.5° | 312.9 | 301.0 | 289.2 | 281.4 | 277.8 | 274.2 | 270.4 | 266.8 |
| 50° | 286.8 | 275.3 | 263.7 | 256.2 | 252.7 | 249.1 | 245.6 | 242.1 |
| 52.5° | 262.3 | 251.2 | 239.9 | 232.8 | 229.5 | 226.3 | 223.0 | 219.7 |
| 55° | 225.0 | 214.9 | 204.9 | 198.2 | 195.1 | 191.9 | 188.7 | 185.5 |
| 57.5° | 191.1 | 181.9 | 172.7 | 166.7 | 164.0 | 161.4 | 158.6 | 155.9 |
| 60° | 167.6 | 159.2 | 150.6 | 145.0 | 142.3 | 139.6 | 136.9 | 134.2 |
| 62.5° | 147.3 | 139.3 | 131.1 | 126.2 | 124.6 | 123.0 | 121.4 | 119.8 |
| 65° | 119.9 | 114.1 | 108.5 | 105.3 | 104.8 | 104.3 | 103.8 | 103.3 |
| 67.5° | 96.7 | 94.1 | 91.5 | 90.0 | 89.4 | 88.9 | 88.4 | 87.8 |
| 70° | 84.1 | 82.5 | 80.8 | 79.6 | 79.0 | 78.3 | 77.6 | 77.0 |
| 72.5° | 73.2 | 71.8 | 70.4 | 69.5 | 69.1 | 68.7 | 68.3 | 67.9 |
| 75° | 58.0 | 56.9 | 55.6 | 54.9 | 54.8 | 54.6 | 54.4 | 54.3 |
| 77.5° | 43.9 | 43.2 | 42.6 | 42.1 | 41.8 | 41.6 | 41.3 | 41.0 |
| 80° | 34.8 | 34.2 | 33.5 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| 82.5° | 26.4 | 26.0 | 25.5 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 |
| 85° | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 |
| 87.5° | 8.3 | 7.9 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 90° | 18.4 | 17.3 | 18.4 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| 92.5° | 50.2 | 43.1 | 38.3 | 34.6 | 34.2 | 32.4 | 32.8 | 31.9 |
| 95° | 150.9 | 115.7 | 91.6 | 78.9 | 71.4 | 66.9 | 65.0 | 65.6 |
| 97.5° | 352.1 | 288.1 | 225.8 | 184.2 | 156.6 | 142.5 | 134.1 | 129.3 |
| 100° | 525.8 | 454.4 | 375.5 | 305.8 | 258.0 | 233.3 | 216.5 | 206.2 |
| 102.5° | 639.6 | 623.5 | 565.8 | 491.9 | 440.0 | 397.7 | 376.9 | 362.8 |
| 105° | 699.7 | 764.8 | 772.3 | 753.3 | 717.6 | 681.9 | 657.1 | 649.0 |
| 107.5° | 656.4 | 754.5 | 814.4 | 842.2 | 846.7 | 844.8 | 839.8 | 829.1 |
| 110° | 619.1 | 722.2 | 795.9 | 843.1 | 867.9 | 878.9 | 884.0 | 883.4 |



TEST NUMBER: P331656-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 585.0 | 684.0 | 762.8 | 816.9 | 851.3 | 869.6 | 879.4 | 882.5 |
| 115° | 543.1 | 631.8 | 707.2 | 766.6 | 807.4 | 833.9 | 848.9 | 854.0 |
| 117.5° | 511.5 | 589.4 | 657.8 | 713.5 | 755.2 | 783.2 | 798.9 | 803.2 |
| 120° | 495.8 | 567.2 | 628.3 | 680.8 | 721.0 | 748.1 | 764.8 | 770.5 |
| 122.5° | 483.4 | 548.9 | 606.6 | 654.0 | 690.1 | 716.8 | 731.6 | 736.5 |
| 125° | 465.3 | 524.6 | 575.3 | 618.5 | 652.0 | 673.8 | 688.2 | 692.9 |
| 127.5° | 447.5 | 501.2 | 549.0 | 588.9 | 617.9 | 638.4 | 650.9 | 654.6 |
| 130° | 436.0 | 485.5 | 531.0 | 569.0 | 597.2 | 616.8 | 628.3 | 632.9 |
| 132.5° | 425.0 | 470.8 | 512.6 | 548.3 | 576.0 | 595.6 | 606.2 | 610.4 |
| 135° | 409.5 | 447.5 | 485.5 | 517.8 | 542.5 | 561.5 | 571.9 | 574.2 |
| 137.5° | 397.2 | 429.0 | 459.1 | 487.3 | 509.8 | 526.1 | 535.2 | 538.7 |
| 140° | 389.3 | 417.0 | 443.4 | 468.8 | 487.3 | 502.2 | 510.8 | 514.3 |
| 142.5° | 382.8 | 406.4 | 429.2 | 450.4 | 467.9 | 481.5 | 489.2 | 489.9 |
| 145° | 373.8 | 392.7 | 410.6 | 427.4 | 441.1 | 450.9 | 456.7 | 458.4 |
| 147.5° | 366.8 | 381.7 | 395.7 | 407.9 | 419.3 | 427.1 | 431.0 | 432.0 |
| 150° | 361.6 | 374.4 | 386.5 | 396.8 | 405.5 | 412.3 | 415.8 | 416.4 |
| 152.5° | 356.6 | 368.4 | 378.6 | 387.6 | 394.4 | 400.4 | 402.9 | 403.0 |
| 155° | 349.6 | 358.8 | 367.4 | 373.8 | 380.1 | 384.2 | 386.5 | 385.3 |
| 157.5° | 341.4 | 349.1 | 356.4 | 361.3 | 365.8 | 369.2 | 370.2 | 370.2 |
| 160° | 336.3 | 342.6 | 349.0 | 353.0 | 357.1 | 359.9 | 360.5 | 360.5 |
| 162.5° | 331.2 | 336.7 | 342.1 | 345.2 | 349.2 | 351.2 | 351.7 | 351.3 |
| 165° | 323.7 | 327.7 | 331.7 | 334.1 | 336.3 | 338.6 | 338.6 | 338.1 |
| 167.5° | 316.4 | 319.5 | 322.2 | 324.4 | 325.4 | 326.7 | 326.6 | 325.9 |
| 170° | 312.8 | 314.5 | 316.8 | 317.9 | 318.5 | 320.2 | 319.6 | 318.5 |
| 172.5° | 308.6 | 309.8 | 311.6 | 312.4 | 313.0 | 313.8 | 313.2 | 312.5 |
| 175° | 304.1 | 304.7 | 305.3 | 305.8 | 305.8 | 306.4 | 305.8 | 304.7 |
| 177.5° | 300.8 | 300.8 | 301.3 | 301.3 | 301.3 | 301.3 | 300.8 | 299.9 |
| 180° | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 |

(END OF REPORT)