

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: P331650-930

Luminaire Tested: **SA2XXRDIP-C485D330U930-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331650-930
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-C485D330U930-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

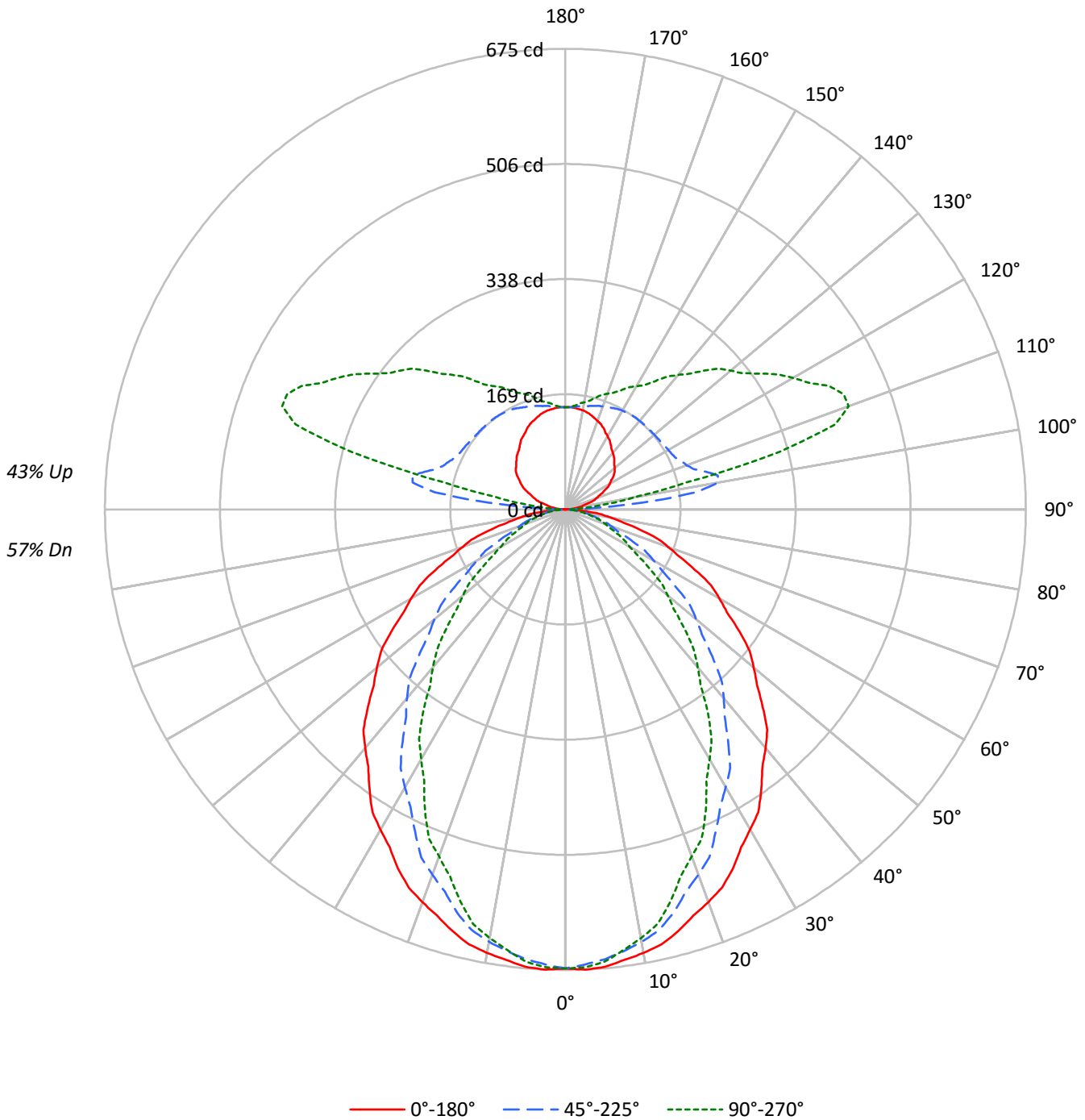
Lumens per Lamp: N/A
Luminaire Lumens: 2427.6 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 27.5
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: P331650-930
CATALOG NUMBER: SA2XXRDIP-C485D330U930-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331650-930

CATALOG NUMBER: SA2XXRDIP-C485D330U930-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 63 | 63 | 63 | 57 |
| 1 | 100 | 96 | 92 | 89 | 93 | 89 | 86 | 83 | 77 | 75 | 73 | 66 | 65 | 63 | 56 | 55 | 54 | 49 |
| 2 | 91 | 84 | 78 | 73 | 85 | 79 | 74 | 69 | 68 | 65 | 61 | 59 | 56 | 54 | 50 | 48 | 46 | 42 |
| 3 | 84 | 75 | 67 | 62 | 78 | 70 | 64 | 58 | 61 | 56 | 52 | 53 | 49 | 46 | 45 | 42 | 40 | 36 |
| 4 | 77 | 66 | 59 | 53 | 71 | 62 | 55 | 50 | 54 | 49 | 45 | 47 | 43 | 40 | 40 | 37 | 35 | 32 |
| 5 | 71 | 59 | 52 | 46 | 66 | 56 | 49 | 43 | 49 | 43 | 39 | 43 | 38 | 35 | 37 | 33 | 31 | 28 |
| 6 | 65 | 54 | 46 | 40 | 61 | 50 | 43 | 38 | 44 | 39 | 34 | 39 | 34 | 31 | 34 | 30 | 27 | 25 |
| 7 | 61 | 49 | 41 | 35 | 57 | 46 | 39 | 34 | 40 | 35 | 31 | 35 | 31 | 28 | 31 | 27 | 25 | 22 |
| 8 | 56 | 44 | 37 | 31 | 53 | 42 | 35 | 30 | 37 | 31 | 27 | 33 | 28 | 25 | 28 | 25 | 22 | 20 |
| 9 | 53 | 41 | 33 | 28 | 49 | 38 | 32 | 27 | 34 | 29 | 25 | 30 | 26 | 22 | 26 | 23 | 20 | 18 |
| 10 | 49 | 37 | 30 | 26 | 46 | 35 | 29 | 24 | 32 | 26 | 22 | 28 | 24 | 20 | 25 | 21 | 18 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10863 | 10863 | 10863 |
| 5° | 10904 | 10728 | 10786 |
| 10° | 10822 | 10552 | 10462 |
| 15° | 10696 | 10238 | 9944 |
| 20° | 10524 | 9792 | 9301 |
| 25° | 10349 | 9285 | 8678 |
| 30° | 10103 | 8764 | 7879 |
| 35° | 9865 | 8198 | 7177 |
| 40° | 9624 | 7611 | 6365 |
| 45° | 9344 | 6951 | 5631 |
| 50° | 9053 | 6285 | 4908 |
| 55° | 8757 | 5571 | 4217 |
| 60° | 8415 | 4818 | 3500 |
| 65° | 8027 | 4046 | 3186 |
| 70° | 7558 | 3333 | 2932 |
| 75° | 6987 | 3038 | 2739 |
| 80° | 6174 | 2715 | 2492 |
| 85° | 4854 | 2149 | 2149 |



TEST NUMBER: P331650-930

CATALOG NUMBER: SA2XXRDIP-C485D330U930-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.0 | 2.6 |
| 10°-20° | 172.9 | 7.1 |
| 20°-30° | 242.8 | 10.0 |
| 30°-40° | 264.8 | 10.9 |
| 40°-50° | 243.5 | 10.0 |
| 50°-60° | 191.2 | 7.9 |
| 60°-70° | 124.7 | 5.1 |
| 70°-80° | 64.3 | 2.6 |
| 80°-90° | 18.0 | 0.7 |
| 90°-100° | 59.9 | 2.5 |
| 100°-110° | 203.2 | 8.4 |
| 110°-120° | 215.9 | 8.9 |
| 120°-130° | 177.7 | 7.3 |
| 130°-140° | 142.7 | 5.9 |
| 140°-150° | 107.9 | 4.4 |
| 150°-160° | 75.8 | 3.1 |
| 160°-170° | 44.6 | 1.8 |
| 170°-180° | 14.5 | 0.6 |
| 0°-30° | 478.7 | 19.7 |
| 0°-40° | 743.5 | 30.6 |
| 0°-60° | 1178.2 | 48.5 |
| 0°-90° | 1385.2 | 57.1 |
| 90°-120° | 479.1 | 19.7 |
| 90°-150° | 907.4 | 37.4 |
| 90°-180° | 1042.0 | 42.9 |
| 0°-180° | 2427.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 673 | 673 | 673 | 673 | 673 | |
| 5° | 673 | 670 | 662 | 667 | 666 | 64 |
| 15° | 640 | 632 | 612 | 601 | 595 | 180 |
| 25° | 581 | 560 | 521 | 497 | 487 | 267 |
| 35° | 500 | 468 | 416 | 379 | 364 | 313 |
| 45° | 409 | 367 | 304 | 263 | 247 | 316 |
| 55° | 311 | 263 | 198 | 163 | 150 | 278 |
| 65° | 210 | 160 | 106 | 86 | 83 | 208 |
| 75° | 112 | 71 | 49 | 45 | 44 | 119 |
| 85° | 26 | 14 | 12 | 12 | 12 | 31 |
| 90° | 0 | 4 | 10 | 9 | 10 | 2 |
| 95° | 10 | 25 | 113 | 43 | 33 | 11 |
| 105° | 35 | 53 | 213 | 382 | 325 | 37 |
| 115° | 62 | 78 | 179 | 369 | 427 | 61 |
| 125° | 86 | 102 | 172 | 299 | 347 | 77 |
| 135° | 101 | 121 | 170 | 251 | 287 | 78 |
| 145° | 116 | 133 | 169 | 210 | 229 | 73 |
| 155° | 132 | 142 | 164 | 185 | 193 | 61 |
| 165° | 144 | 148 | 157 | 166 | 169 | 40 |
| 175° | 150 | 150 | 151 | 153 | 152 | 14 |
| 180° | 150 | 150 | 150 | 150 | 150 | |



TEST NUMBER: P331650-930

CATALOG NUMBER: SA2XXRDIP-C485D330U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 |
| 2.5° | 675.2 | 674.7 | 674.2 | 673.6 | 673.1 | 672.2 | 671.1 | 669.8 | 668.6 | 667.5 | 668.5 |
| 5° | 672.8 | 672.1 | 671.5 | 670.8 | 670.1 | 668.9 | 667.2 | 665.4 | 663.7 | 661.9 | 663.1 |
| 7.5° | 665.9 | 665.0 | 664.2 | 663.3 | 662.5 | 661.0 | 659.0 | 657.0 | 654.9 | 652.9 | 653.2 |
| 10° | 660.1 | 659.1 | 658.1 | 657.2 | 656.2 | 654.4 | 651.8 | 649.0 | 646.3 | 643.6 | 643.2 |
| 12.5° | 652.7 | 651.6 | 650.4 | 649.2 | 648.1 | 645.8 | 642.3 | 638.9 | 635.4 | 631.9 | 631.2 |
| 15° | 639.9 | 638.5 | 637.0 | 635.4 | 634.0 | 631.0 | 626.3 | 621.7 | 617.2 | 612.5 | 610.0 |
| 17.5° | 624.3 | 622.0 | 619.7 | 617.4 | 615.1 | 611.1 | 605.2 | 599.2 | 593.4 | 587.4 | 584.4 |
| 20° | 612.5 | 609.8 | 607.2 | 604.5 | 601.7 | 597.0 | 590.2 | 583.4 | 576.7 | 569.9 | 566.6 |
| 22.5° | 599.9 | 596.9 | 593.8 | 590.8 | 587.7 | 582.4 | 574.8 | 567.1 | 559.5 | 551.9 | 547.6 |
| 25° | 580.9 | 576.6 | 572.3 | 567.9 | 563.5 | 556.9 | 548.0 | 539.1 | 530.1 | 521.2 | 515.7 |
| 27.5° | 558.0 | 553.3 | 548.5 | 543.9 | 539.2 | 531.7 | 521.7 | 511.6 | 501.6 | 491.5 | 485.0 |
| 30° | 541.9 | 536.8 | 531.7 | 526.5 | 521.4 | 513.4 | 502.6 | 491.7 | 480.9 | 470.1 | 463.2 |
| 32.5° | 526.4 | 520.3 | 514.3 | 508.3 | 502.3 | 493.7 | 482.7 | 471.7 | 460.6 | 449.6 | 441.7 |
| 35° | 500.5 | 493.6 | 486.7 | 479.8 | 472.9 | 463.5 | 451.6 | 439.7 | 427.8 | 415.9 | 407.3 |
| 37.5° | 474.7 | 467.1 | 459.5 | 451.9 | 444.4 | 434.2 | 421.6 | 408.9 | 396.2 | 383.5 | 374.1 |
| 40° | 456.6 | 448.6 | 440.4 | 432.4 | 424.2 | 413.6 | 400.5 | 387.3 | 374.2 | 361.1 | 351.5 |
| 42.5° | 438.1 | 429.6 | 421.0 | 412.5 | 404.0 | 392.9 | 379.4 | 365.7 | 352.2 | 338.7 | 328.7 |
| 45° | 409.2 | 400.1 | 391.0 | 382.0 | 372.9 | 361.3 | 347.1 | 332.9 | 318.6 | 304.4 | 294.8 |
| 47.5° | 380.9 | 371.3 | 361.7 | 352.1 | 342.5 | 330.4 | 315.7 | 301.0 | 286.3 | 271.7 | 262.1 |
| 50° | 360.4 | 350.8 | 341.3 | 331.7 | 322.0 | 309.8 | 294.9 | 280.1 | 265.1 | 250.2 | 240.9 |
| 52.5° | 340.5 | 330.4 | 320.4 | 310.4 | 300.4 | 288.0 | 273.5 | 258.9 | 244.3 | 229.8 | 220.8 |
| 55° | 311.1 | 300.6 | 290.0 | 279.5 | 269.0 | 256.3 | 241.7 | 227.1 | 212.5 | 197.9 | 189.8 |
| 57.5° | 281.0 | 270.3 | 259.4 | 248.6 | 237.7 | 225.3 | 211.3 | 197.2 | 183.2 | 169.2 | 161.7 |
| 60° | 260.6 | 249.8 | 239.0 | 228.1 | 217.3 | 205.0 | 191.0 | 177.1 | 163.1 | 149.2 | 142.3 |
| 62.5° | 240.6 | 229.8 | 219.0 | 208.1 | 197.3 | 185.3 | 172.0 | 158.7 | 145.4 | 132.2 | 125.6 |
| 65° | 210.1 | 199.1 | 188.2 | 177.2 | 166.2 | 154.7 | 142.5 | 130.3 | 118.1 | 105.9 | 101.3 |
| 67.5° | 180.6 | 169.7 | 158.8 | 148.0 | 137.1 | 126.1 | 115.2 | 104.3 | 93.3 | 82.3 | 80.2 |
| 70° | 160.1 | 149.6 | 139.0 | 128.5 | 117.9 | 107.9 | 98.7 | 89.3 | 80.0 | 70.6 | 69.3 |
| 72.5° | 140.6 | 130.5 | 120.4 | 110.3 | 100.2 | 91.4 | 83.9 | 76.4 | 68.9 | 61.4 | 60.3 |
| 75° | 112.0 | 102.6 | 93.1 | 83.6 | 74.1 | 67.1 | 62.5 | 57.9 | 53.3 | 48.7 | 47.8 |
| 77.5° | 83.9 | 75.6 | 67.3 | 58.9 | 50.7 | 45.4 | 43.2 | 41.0 | 38.7 | 36.5 | 36.0 |
| 80° | 66.4 | 59.4 | 52.6 | 45.7 | 38.7 | 34.7 | 33.3 | 32.0 | 30.6 | 29.2 | 28.7 |
| 82.5° | 50.3 | 44.9 | 39.5 | 34.2 | 28.8 | 25.6 | 24.7 | 23.7 | 22.8 | 21.9 | 21.6 |
| 85° | 26.2 | 23.3 | 20.5 | 17.7 | 14.8 | 13.2 | 12.8 | 12.4 | 12.0 | 11.6 | 11.6 |
| 87.5° | 7.8 | 7.2 | 6.5 | 5.8 | 5.1 | 4.7 | 5.1 | 5.5 | 5.8 | 5.9 | 5.7 |
| 90° | 0.3 | 1.1 | 2.3 | 2.9 | 3.4 | 4.3 | 5.8 | 7.7 | 9.5 | 9.8 | 9.5 |
| 92.5° | 3.5 | 5.1 | 7.2 | 8.4 | 10.4 | 13.0 | 19.6 | 28.8 | 36.9 | 37.4 | 31.6 |
| 95° | 10.1 | 11.3 | 14.1 | 16.7 | 21.3 | 28.2 | 41.5 | 66.5 | 100.0 | 112.9 | 98.8 |
| 97.5° | 16.4 | 17.9 | 21.0 | 24.9 | 30.2 | 38.1 | 54.7 | 89.7 | 145.2 | 192.7 | 202.2 |
| 100° | 22.2 | 23.1 | 25.6 | 30.2 | 36.0 | 44.1 | 59.4 | 94.5 | 156.7 | 227.6 | 269.0 |
| 102.5° | 27.5 | 28.1 | 30.7 | 35.3 | 41.3 | 49.4 | 63.5 | 94.7 | 152.3 | 228.7 | 293.9 |
| 105° | 35.1 | 36.3 | 38.3 | 42.6 | 49.0 | 57.1 | 70.6 | 96.2 | 143.7 | 213.4 | 290.1 |
| 107.5° | 43.5 | 44.4 | 46.3 | 50.3 | 56.6 | 64.7 | 77.9 | 100.2 | 139.5 | 197.1 | 264.8 |
| 110° | 49.0 | 50.1 | 51.9 | 55.6 | 61.6 | 70.0 | 82.7 | 103.4 | 138.6 | 189.2 | 248.9 |



TEST NUMBER: P331650-930

CATALOG NUMBER: SA2XXRDIP-C485D330U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 54.1 | 55.2 | 57.2 | 60.7 | 66.4 | 75.1 | 87.3 | 106.9 | 138.8 | 184.2 | 237.8 |
| 115° | 62.0 | 63.3 | 65.1 | 68.6 | 74.4 | 82.1 | 94.5 | 112.0 | 140.0 | 178.6 | 224.1 |
| 117.5° | 70.1 | 71.3 | 73.0 | 76.1 | 81.6 | 89.7 | 101.1 | 117.6 | 142.1 | 175.9 | 215.5 |
| 120° | 75.2 | 76.3 | 78.1 | 80.6 | 86.4 | 94.5 | 105.7 | 121.3 | 143.5 | 174.3 | 210.8 |
| 122.5° | 80.1 | 81.0 | 82.7 | 85.5 | 91.2 | 99.5 | 110.1 | 124.5 | 145.0 | 173.3 | 206.9 |
| 125° | 86.4 | 87.3 | 89.0 | 92.5 | 98.2 | 106.3 | 116.7 | 129.6 | 147.5 | 171.7 | 201.4 |
| 127.5° | 91.5 | 92.6 | 95.1 | 98.9 | 104.4 | 112.7 | 122.8 | 134.4 | 149.9 | 170.7 | 196.2 |
| 130° | 94.5 | 95.6 | 98.5 | 102.6 | 108.4 | 116.3 | 126.5 | 137.4 | 151.8 | 170.2 | 192.7 |
| 132.5° | 97.3 | 98.7 | 101.7 | 106.0 | 112.0 | 120.1 | 129.7 | 140.4 | 153.7 | 170.0 | 190.0 |
| 135° | 101.4 | 102.6 | 106.0 | 110.3 | 117.0 | 125.0 | 134.3 | 144.3 | 155.9 | 169.7 | 186.1 |
| 137.5° | 105.3 | 106.7 | 110.1 | 114.8 | 121.3 | 128.8 | 137.9 | 147.3 | 157.8 | 169.6 | 183.4 |
| 140° | 108.4 | 109.5 | 112.9 | 117.6 | 123.8 | 131.3 | 140.0 | 149.0 | 158.7 | 169.4 | 181.7 |
| 142.5° | 111.3 | 112.3 | 115.4 | 120.1 | 126.2 | 133.2 | 141.6 | 150.3 | 159.4 | 169.4 | 180.2 |
| 145° | 115.8 | 117.0 | 119.8 | 124.2 | 130.0 | 136.2 | 144.1 | 152.1 | 160.1 | 168.8 | 178.1 |
| 147.5° | 120.7 | 121.5 | 124.3 | 128.2 | 133.1 | 138.7 | 146.0 | 153.1 | 160.4 | 167.8 | 175.9 |
| 150° | 123.8 | 124.7 | 127.0 | 130.8 | 135.1 | 140.3 | 146.9 | 153.5 | 160.1 | 167.1 | 174.0 |
| 152.5° | 127.1 | 127.5 | 129.8 | 133.1 | 137.2 | 141.9 | 147.8 | 153.8 | 159.7 | 165.9 | 172.4 |
| 155° | 131.7 | 131.9 | 133.6 | 136.8 | 140.0 | 144.3 | 149.2 | 154.1 | 159.0 | 163.9 | 169.4 |
| 157.5° | 135.4 | 135.7 | 137.1 | 139.9 | 142.4 | 146.0 | 150.2 | 154.1 | 157.7 | 161.8 | 166.6 |
| 160° | 137.9 | 138.3 | 139.4 | 141.7 | 144.1 | 147.2 | 150.7 | 154.1 | 157.0 | 160.5 | 164.4 |
| 162.5° | 140.6 | 140.3 | 141.5 | 143.3 | 145.4 | 147.9 | 150.9 | 153.8 | 156.3 | 159.3 | 162.7 |
| 165° | 143.5 | 143.2 | 143.7 | 145.4 | 146.9 | 148.6 | 151.2 | 153.3 | 155.0 | 157.0 | 159.6 |
| 167.5° | 145.9 | 145.5 | 146.0 | 147.2 | 148.2 | 149.3 | 151.2 | 152.9 | 153.7 | 155.0 | 156.6 |
| 170° | 147.5 | 146.9 | 147.2 | 148.1 | 148.6 | 149.5 | 150.9 | 152.4 | 153.0 | 153.8 | 155.0 |
| 172.5° | 148.4 | 148.1 | 147.9 | 148.8 | 149.1 | 149.8 | 150.7 | 151.7 | 152.1 | 152.5 | 153.4 |
| 175° | 149.5 | 149.2 | 149.0 | 149.5 | 149.5 | 149.8 | 150.3 | 150.9 | 150.7 | 150.9 | 151.2 |
| 177.5° | 150.0 | 149.5 | 149.4 | 149.8 | 149.8 | 149.8 | 150.0 | 150.5 | 150.0 | 149.8 | 150.0 |
| 180° | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 |



TEST NUMBER: P331650-930
 CATALOG NUMBER: SA2XXRDIP-C485D330U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 | 672.8 |
| 2.5° | 669.6 | 670.7 | 671.8 | 672.2 | 672.1 | 671.8 | 671.6 | 671.4 |
| 5° | 664.3 | 665.5 | 666.8 | 667.2 | 666.8 | 666.3 | 665.9 | 665.5 |
| 7.5° | 653.5 | 653.9 | 654.3 | 654.1 | 653.4 | 652.6 | 652.0 | 651.3 |
| 10° | 642.8 | 642.4 | 642.0 | 641.4 | 640.6 | 639.8 | 639.0 | 638.1 |
| 12.5° | 630.5 | 629.7 | 629.0 | 627.9 | 626.6 | 625.3 | 623.9 | 622.6 |
| 15° | 607.4 | 604.9 | 602.3 | 600.3 | 598.9 | 597.6 | 596.2 | 594.9 |
| 17.5° | 581.3 | 578.3 | 575.2 | 572.5 | 570.2 | 567.9 | 565.6 | 563.2 |
| 20° | 563.1 | 559.8 | 556.4 | 553.2 | 550.2 | 547.2 | 544.3 | 541.3 |
| 22.5° | 543.2 | 538.8 | 534.5 | 531.2 | 529.0 | 526.8 | 524.6 | 522.3 |
| 25° | 510.1 | 504.6 | 499.0 | 495.2 | 493.2 | 491.1 | 489.2 | 487.1 |
| 27.5° | 478.6 | 472.1 | 465.6 | 460.8 | 457.5 | 454.4 | 451.1 | 447.9 |
| 30° | 456.2 | 449.4 | 442.5 | 437.2 | 433.5 | 429.9 | 426.2 | 422.6 |
| 32.5° | 433.8 | 426.0 | 418.1 | 412.5 | 409.0 | 405.6 | 402.1 | 398.7 |
| 35° | 398.8 | 390.3 | 381.8 | 376.0 | 373.1 | 370.1 | 367.1 | 364.1 |
| 37.5° | 364.7 | 355.3 | 345.9 | 339.5 | 336.1 | 332.7 | 329.3 | 325.9 |
| 40° | 341.9 | 332.2 | 322.6 | 316.1 | 312.6 | 309.1 | 305.5 | 302.0 |
| 42.5° | 318.8 | 308.8 | 299.0 | 292.3 | 288.9 | 285.4 | 282.0 | 278.6 |
| 45° | 285.2 | 275.7 | 266.0 | 259.6 | 256.3 | 253.1 | 249.8 | 246.6 |
| 47.5° | 252.6 | 243.0 | 233.5 | 227.2 | 224.3 | 221.4 | 218.3 | 215.4 |
| 50° | 231.5 | 222.3 | 212.9 | 206.8 | 204.0 | 201.1 | 198.3 | 195.4 |
| 52.5° | 211.7 | 202.8 | 193.7 | 187.9 | 185.3 | 182.7 | 180.0 | 177.4 |
| 55° | 181.6 | 173.5 | 165.4 | 160.0 | 157.5 | 154.9 | 152.4 | 149.8 |
| 57.5° | 154.3 | 146.8 | 139.4 | 134.6 | 132.4 | 130.3 | 128.1 | 125.9 |
| 60° | 135.3 | 128.5 | 121.6 | 117.1 | 114.9 | 112.7 | 110.6 | 108.4 |
| 62.5° | 119.0 | 112.4 | 105.8 | 101.9 | 100.6 | 99.3 | 98.0 | 96.7 |
| 65° | 96.8 | 92.1 | 87.6 | 85.0 | 84.6 | 84.2 | 83.8 | 83.4 |
| 67.5° | 78.1 | 76.0 | 73.9 | 72.6 | 72.2 | 71.7 | 71.3 | 70.8 |
| 70° | 67.9 | 66.6 | 65.2 | 64.2 | 63.8 | 63.2 | 62.6 | 62.1 |
| 72.5° | 59.1 | 58.0 | 56.8 | 56.1 | 55.8 | 55.4 | 55.1 | 54.8 |
| 75° | 46.8 | 45.9 | 44.9 | 44.4 | 44.3 | 44.1 | 43.9 | 43.9 |
| 77.5° | 35.5 | 34.9 | 34.4 | 34.0 | 33.8 | 33.6 | 33.3 | 33.1 |
| 80° | 28.1 | 27.6 | 27.1 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 |
| 82.5° | 21.3 | 21.0 | 20.6 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 |
| 85° | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| 87.5° | 5.5 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 90° | 9.2 | 8.6 | 9.2 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 92.5° | 25.1 | 21.5 | 19.2 | 17.4 | 17.1 | 16.2 | 16.4 | 16.0 |
| 95° | 75.5 | 57.9 | 45.8 | 39.5 | 35.7 | 33.4 | 32.5 | 32.9 |
| 97.5° | 176.1 | 144.1 | 112.9 | 92.1 | 78.4 | 71.3 | 67.1 | 64.7 |
| 100° | 263.0 | 227.3 | 187.8 | 153.0 | 129.1 | 116.7 | 108.4 | 103.1 |
| 102.5° | 319.9 | 311.9 | 283.0 | 246.1 | 220.0 | 198.9 | 188.5 | 181.5 |
| 105° | 350.0 | 382.5 | 386.3 | 376.8 | 358.9 | 341.0 | 328.6 | 324.7 |
| 107.5° | 328.3 | 377.4 | 407.3 | 421.3 | 423.5 | 422.6 | 420.0 | 414.7 |
| 110° | 309.7 | 361.3 | 398.1 | 421.8 | 434.1 | 439.6 | 442.2 | 441.9 |



TEST NUMBER: P331650-930

CATALOG NUMBER: SA2XXRDIP-C485D330U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 292.6 | 342.1 | 381.5 | 408.6 | 425.8 | 435.0 | 439.9 | 441.4 |
| 115° | 271.7 | 316.0 | 353.8 | 383.4 | 403.9 | 417.1 | 424.6 | 427.2 |
| 117.5° | 255.8 | 294.8 | 329.1 | 356.9 | 377.7 | 391.8 | 399.6 | 401.8 |
| 120° | 248.0 | 283.7 | 314.3 | 340.5 | 360.7 | 374.2 | 382.5 | 385.5 |
| 122.5° | 241.8 | 274.5 | 303.5 | 327.1 | 345.2 | 358.6 | 366.0 | 368.4 |
| 125° | 232.8 | 262.4 | 287.8 | 309.4 | 326.1 | 337.0 | 344.2 | 346.6 |
| 127.5° | 223.8 | 250.7 | 274.6 | 294.5 | 309.1 | 319.4 | 325.5 | 327.4 |
| 130° | 218.1 | 242.9 | 265.6 | 284.6 | 298.7 | 308.5 | 314.3 | 316.6 |
| 132.5° | 212.5 | 235.5 | 256.4 | 274.3 | 288.1 | 297.9 | 303.2 | 305.3 |
| 135° | 204.8 | 223.8 | 242.9 | 258.9 | 271.3 | 280.9 | 286.1 | 287.2 |
| 137.5° | 198.7 | 214.6 | 229.7 | 243.7 | 255.0 | 263.2 | 267.7 | 269.5 |
| 140° | 194.7 | 208.6 | 221.8 | 234.5 | 243.7 | 251.2 | 255.5 | 257.2 |
| 142.5° | 191.5 | 203.3 | 214.7 | 225.3 | 234.0 | 240.8 | 244.7 | 245.0 |
| 145° | 186.9 | 196.5 | 205.4 | 213.8 | 220.6 | 225.6 | 228.4 | 229.3 |
| 147.5° | 183.4 | 190.9 | 197.9 | 204.0 | 209.7 | 213.6 | 215.6 | 216.1 |
| 150° | 180.9 | 187.3 | 193.3 | 198.4 | 202.8 | 206.3 | 208.0 | 208.3 |
| 152.5° | 178.4 | 184.3 | 189.4 | 193.9 | 197.3 | 200.2 | 201.5 | 201.6 |
| 155° | 174.9 | 179.4 | 183.8 | 186.9 | 190.1 | 192.2 | 193.3 | 192.7 |
| 157.5° | 170.8 | 174.6 | 178.2 | 180.8 | 183.0 | 184.7 | 185.2 | 185.2 |
| 160° | 168.2 | 171.4 | 174.6 | 176.6 | 178.6 | 180.0 | 180.3 | 180.3 |
| 162.5° | 165.7 | 168.4 | 171.1 | 172.7 | 174.7 | 175.7 | 175.9 | 175.7 |
| 165° | 161.9 | 163.9 | 165.9 | 167.1 | 168.2 | 169.4 | 169.4 | 169.1 |
| 167.5° | 158.2 | 159.8 | 161.2 | 162.2 | 162.7 | 163.4 | 163.3 | 163.0 |
| 170° | 156.5 | 157.3 | 158.4 | 159.0 | 159.3 | 160.1 | 159.9 | 159.3 |
| 172.5° | 154.3 | 155.0 | 155.9 | 156.2 | 156.5 | 156.9 | 156.6 | 156.3 |
| 175° | 152.1 | 152.4 | 152.7 | 153.0 | 153.0 | 153.3 | 153.0 | 152.4 |
| 177.5° | 150.5 | 150.5 | 150.7 | 150.7 | 150.7 | 150.7 | 150.5 | 150.0 |
| 180° | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 |

(END OF REPORT)