

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: P333860

Luminaire Tested: **SA2XXRDP-C290D927-4F0-1E-UDD-A**

Issue Date: 10/11/2019

Test Information

Test Method: LM-79-08
Report Number: P333860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/11/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-C290D927-4F0-1E-UDD-A
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 290 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

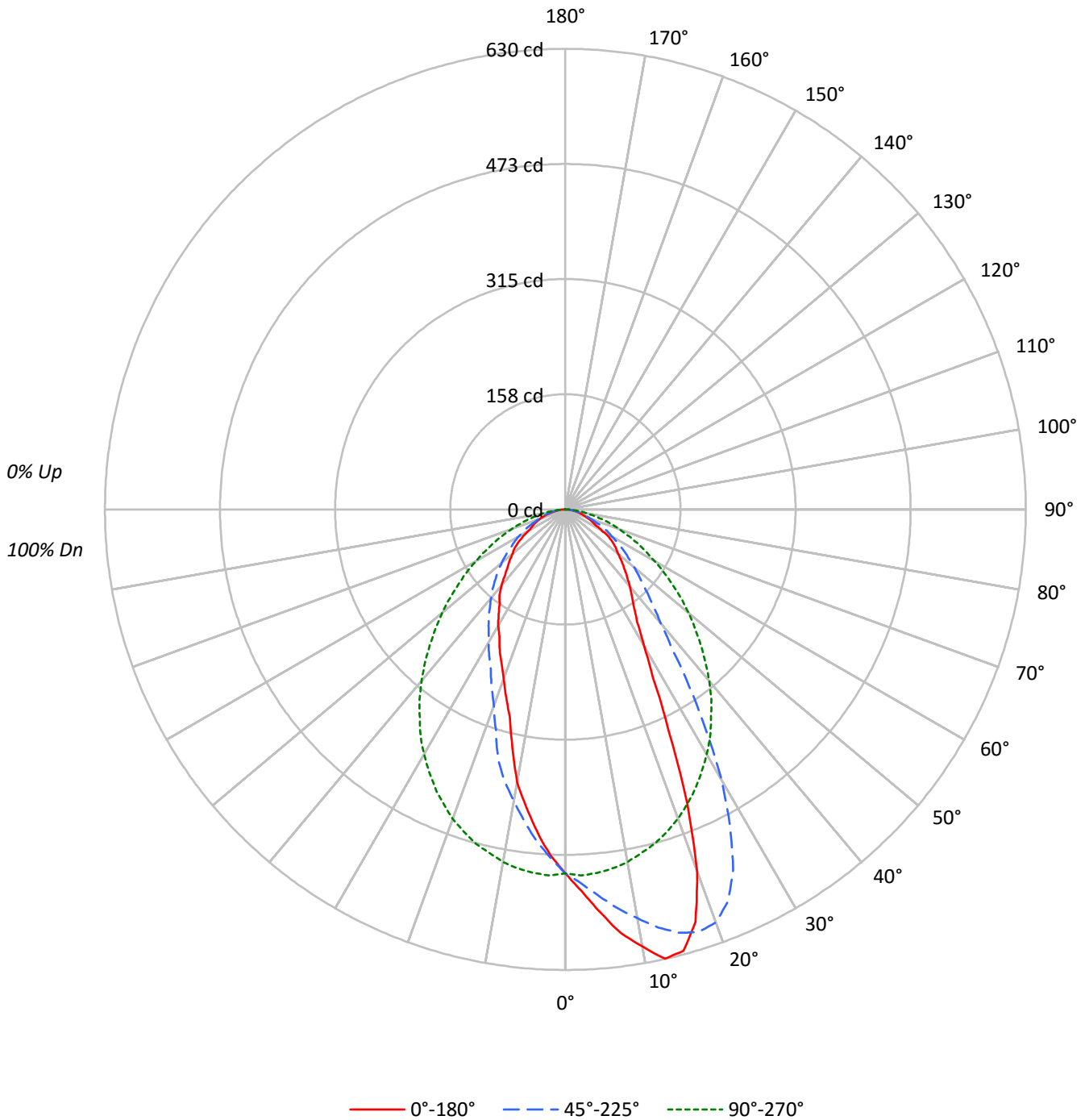
Lumens per Lamp: N/A
Luminaire Lumens: 860.1 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 11.6
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: P333860
CATALOG NUMBER: SA2XXRDP-C290D927-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333860

CATALOG NUMBER: SA2XXRDP-C290D927-4F0-1E-UDD-A

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | | | | 87 | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | | | | 76 | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | | | | 66 | |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | | | | 59 | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | | | | 52 | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 60 | 54 | 49 | 58 | 53 | 49 | | | | 47 | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | | | | 42 | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | | | | 39 | |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 47 | 41 | 37 | | | | 35 | |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 44 | 38 | 34 | | | | 33 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 8037 | 8037 | 8037 |
| 5° | 8976 | 8088 | 7170 |
| 10° | 9958 | 8030 | 6215 |
| 15° | 10447 | 7913 | 4898 |
| 20° | 9058 | 7739 | 4237 |
| 25° | 5941 | 7500 | 3784 |
| 30° | 3999 | 7209 | 3425 |
| 35° | 3238 | 6845 | 3089 |
| 40° | 2879 | 6450 | 2858 |
| 45° | 2605 | 5982 | 2551 |
| 50° | 2371 | 5521 | 2364 |
| 55° | 2229 | 5011 | 2201 |
| 60° | 1866 | 4540 | 1844 |
| 65° | 1574 | 4122 | 1784 |
| 70° | 1454 | 3682 | 1681 |
| 75° | 1360 | 3206 | 1553 |
| 80° | 1255 | 2641 | 1385 |
| 85° | 1149 | 2075 | 1223 |



TEST NUMBER: P333860

CATALOG NUMBER: SA2XXRDP-C290D927-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.2 | 5.5 |
| 10°-20° | 131.8 | 15.3 |
| 20°-30° | 169.6 | 19.7 |
| 30°-40° | 160.9 | 18.7 |
| 40°-50° | 137.9 | 16.0 |
| 50°-60° | 105.0 | 12.2 |
| 60°-70° | 66.2 | 7.7 |
| 70°-80° | 33.1 | 3.8 |
| 80°-90° | 8.5 | 1.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 348.6 | 40.5 |
| 0°-40° | 509.5 | 59.2 |
| 0°-60° | 752.4 | 87.5 |
| 0°-90° | 860.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 860.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 498 | 498 | 498 | 498 | 498 | |
| 5° | 554 | 531 | 499 | 455 | 442 | 55 |
| 15° | 625 | 600 | 473 | 354 | 293 | 170 |
| 25° | 334 | 543 | 421 | 241 | 212 | 157 |
| 35° | 164 | 295 | 347 | 183 | 157 | 105 |
| 45° | 114 | 156 | 262 | 135 | 112 | 88 |
| 55° | 79 | 97 | 178 | 92 | 78 | 70 |
| 65° | 41 | 55 | 108 | 55 | 47 | 42 |
| 75° | 22 | 24 | 51 | 28 | 25 | 23 |
| 85° | 6 | 6 | 11 | 7 | 7 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333860

CATALOG NUMBER: SA2XXRDP-C290D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 |
| 2.5° | 523.0 | 523.5 | 524.0 | 522.8 | 522.8 | 521.8 | 519.5 | 517.8 | 513.0 | 512.3 | 512.3 |
| 5° | 553.8 | 553.4 | 554.1 | 551.9 | 548.8 | 548.1 | 544.8 | 540.5 | 536.0 | 531.0 | 529.9 |
| 7.5° | 584.9 | 582.8 | 582.0 | 583.0 | 579.7 | 575.2 | 569.7 | 564.5 | 556.7 | 550.3 | 546.4 |
| 10° | 607.4 | 613.1 | 609.7 | 603.6 | 604.8 | 596.7 | 592.4 | 584.9 | 578.7 | 567.8 | 565.4 |
| 12.5° | 629.5 | 630.9 | 630.4 | 627.6 | 625.4 | 620.4 | 614.2 | 607.9 | 595.1 | 585.6 | 575.6 |
| 15° | 625.0 | 628.3 | 629.2 | 628.2 | 629.0 | 628.7 | 625.6 | 620.2 | 610.2 | 599.5 | 590.1 |
| 17.5° | 591.8 | 595.6 | 598.8 | 601.5 | 605.9 | 614.3 | 616.9 | 618.0 | 613.8 | 606.2 | 598.4 |
| 20° | 527.2 | 523.4 | 539.3 | 547.4 | 554.3 | 571.6 | 586.5 | 592.2 | 601.4 | 601.2 | 599.5 |
| 22.5° | 435.5 | 437.6 | 452.4 | 462.5 | 486.0 | 503.3 | 520.8 | 546.2 | 566.1 | 580.8 | 589.8 |
| 25° | 333.5 | 340.0 | 355.1 | 368.2 | 390.7 | 422.9 | 452.1 | 486.0 | 518.0 | 543.2 | 567.3 |
| 27.5° | 259.4 | 260.3 | 274.0 | 287.3 | 301.1 | 329.0 | 368.0 | 408.7 | 454.3 | 487.2 | 528.7 |
| 30° | 214.5 | 213.4 | 218.4 | 225.9 | 237.3 | 257.7 | 285.4 | 325.1 | 370.6 | 427.4 | 477.9 |
| 32.5° | 182.6 | 183.0 | 186.4 | 191.5 | 200.5 | 212.6 | 229.3 | 259.8 | 302.1 | 357.7 | 419.1 |
| 35° | 164.3 | 164.1 | 166.9 | 170.9 | 174.9 | 183.7 | 196.6 | 213.6 | 243.2 | 295.2 | 355.8 |
| 37.5° | 149.1 | 149.9 | 151.2 | 153.8 | 158.6 | 163.8 | 171.9 | 183.8 | 206.3 | 238.7 | 293.0 |
| 40° | 136.6 | 137.0 | 138.9 | 141.0 | 143.6 | 147.4 | 153.8 | 162.9 | 178.3 | 202.9 | 240.1 |
| 42.5° | 125.2 | 125.6 | 126.8 | 128.7 | 130.6 | 134.4 | 139.4 | 147.0 | 158.8 | 176.6 | 205.6 |
| 45° | 114.1 | 114.1 | 115.4 | 116.2 | 118.5 | 121.9 | 126.3 | 132.8 | 141.5 | 155.7 | 176.1 |
| 47.5° | 103.4 | 103.4 | 104.3 | 105.8 | 107.4 | 110.2 | 114.7 | 120.2 | 126.4 | 138.0 | 156.2 |
| 50° | 94.4 | 94.6 | 95.1 | 96.3 | 97.2 | 99.6 | 102.9 | 107.6 | 114.1 | 122.6 | 137.2 |
| 52.5° | 87.2 | 87.0 | 87.7 | 88.0 | 88.6 | 90.1 | 92.4 | 96.3 | 102.0 | 109.1 | 120.5 |
| 55° | 79.2 | 78.5 | 79.6 | 80.4 | 80.9 | 81.6 | 83.0 | 85.6 | 90.6 | 96.9 | 105.8 |
| 57.5° | 69.9 | 69.5 | 70.0 | 70.9 | 72.5 | 74.2 | 75.1 | 76.8 | 79.4 | 84.2 | 93.7 |
| 60° | 57.8 | 57.8 | 59.3 | 59.8 | 61.7 | 64.2 | 66.6 | 68.0 | 70.6 | 73.5 | 80.1 |
| 62.5° | 47.0 | 47.2 | 47.7 | 48.3 | 49.1 | 52.2 | 55.9 | 59.3 | 61.7 | 64.5 | 68.3 |
| 65° | 41.2 | 41.5 | 41.5 | 41.9 | 42.5 | 43.2 | 44.6 | 47.0 | 51.4 | 55.3 | 58.6 |
| 67.5° | 36.0 | 36.0 | 36.1 | 36.5 | 36.7 | 37.5 | 38.0 | 39.3 | 40.1 | 44.6 | 49.1 |
| 70° | 30.8 | 31.3 | 31.1 | 31.5 | 31.7 | 32.0 | 32.7 | 33.2 | 34.8 | 35.6 | 38.0 |
| 72.5° | 25.9 | 26.3 | 26.3 | 26.5 | 27.0 | 27.0 | 27.5 | 28.0 | 28.9 | 29.6 | 30.6 |
| 75° | 21.8 | 21.6 | 21.8 | 22.1 | 22.3 | 22.5 | 22.5 | 23.2 | 23.7 | 24.4 | 25.3 |
| 77.5° | 17.6 | 17.8 | 17.8 | 17.8 | 17.8 | 18.2 | 18.2 | 18.5 | 19.0 | 19.4 | 19.9 |
| 80° | 13.5 | 13.7 | 13.5 | 13.7 | 13.8 | 14.0 | 13.8 | 14.0 | 14.5 | 14.9 | 14.9 |
| 82.5° | 9.7 | 9.7 | 9.9 | 9.9 | 9.9 | 9.9 | 10.2 | 10.2 | 10.6 | 10.4 | 10.6 |
| 85° | 6.2 | 6.1 | 6.1 | 6.1 | 6.2 | 6.4 | 6.2 | 6.2 | 6.4 | 6.4 | 6.4 |
| 87.5° | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 3.1 | 2.9 | 3.1 | 2.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333860

CATALOG NUMBER: SA2XXRDP-C290D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 |
| 2.5° | 512.6 | 511.2 | 510.0 | 506.9 | 505.4 | 501.9 | 501.4 | 501.2 | 496.7 | 492.4 | 491.2 |
| 5° | 527.2 | 524.4 | 520.2 | 515.4 | 510.4 | 505.2 | 501.7 | 499.0 | 492.0 | 485.5 | 481.7 |
| 7.5° | 541.5 | 536.5 | 529.9 | 521.6 | 514.5 | 506.2 | 500.5 | 495.3 | 485.8 | 477.2 | 471.5 |
| 10° | 557.9 | 548.3 | 538.7 | 526.1 | 516.3 | 506.6 | 497.6 | 489.8 | 478.7 | 466.3 | 457.5 |
| 12.5° | 568.1 | 557.3 | 543.2 | 531.0 | 517.5 | 504.5 | 491.7 | 481.2 | 467.7 | 454.7 | 443.8 |
| 15° | 577.1 | 565.7 | 549.8 | 532.2 | 515.7 | 499.7 | 485.8 | 473.4 | 456.4 | 441.0 | 428.2 |
| 17.5° | 585.4 | 569.7 | 553.3 | 532.9 | 514.7 | 495.2 | 477.7 | 462.1 | 443.6 | 425.5 | 410.9 |
| 20° | 589.1 | 573.5 | 553.8 | 533.4 | 510.9 | 486.9 | 467.7 | 450.4 | 430.1 | 409.9 | 392.6 |
| 22.5° | 586.8 | 575.6 | 553.1 | 527.7 | 504.5 | 479.1 | 456.8 | 436.0 | 413.0 | 392.3 | 371.5 |
| 25° | 575.1 | 570.9 | 550.2 | 523.5 | 497.2 | 468.0 | 442.9 | 421.0 | 395.4 | 373.2 | 351.4 |
| 27.5° | 553.4 | 559.5 | 544.8 | 515.9 | 487.6 | 456.1 | 428.7 | 404.0 | 377.9 | 353.2 | 331.4 |
| 30° | 519.2 | 539.8 | 534.2 | 508.0 | 475.3 | 444.5 | 412.8 | 386.7 | 358.4 | 332.8 | 311.3 |
| 32.5° | 472.3 | 509.7 | 517.8 | 496.9 | 462.8 | 428.2 | 394.7 | 368.7 | 338.8 | 311.5 | 290.7 |
| 35° | 422.0 | 472.9 | 496.2 | 482.2 | 448.3 | 411.8 | 377.6 | 347.3 | 317.5 | 290.9 | 270.2 |
| 37.5° | 362.3 | 430.1 | 466.1 | 464.5 | 432.2 | 395.0 | 357.8 | 327.9 | 297.3 | 271.0 | 249.4 |
| 40° | 304.6 | 379.6 | 430.3 | 441.5 | 415.3 | 374.3 | 336.6 | 306.0 | 276.2 | 250.6 | 224.8 |
| 42.5° | 252.7 | 327.4 | 392.6 | 414.2 | 394.7 | 354.0 | 316.2 | 283.8 | 255.1 | 231.2 | 204.8 |
| 45° | 212.7 | 278.1 | 346.8 | 381.7 | 370.1 | 332.4 | 292.5 | 262.0 | 234.9 | 213.9 | 188.7 |
| 47.5° | 184.2 | 231.8 | 300.8 | 346.4 | 345.0 | 309.2 | 269.5 | 240.2 | 214.6 | 195.3 | 173.8 |
| 50° | 160.5 | 200.6 | 256.8 | 310.4 | 314.9 | 286.1 | 248.7 | 219.8 | 196.3 | 175.7 | 159.3 |
| 52.5° | 139.2 | 170.5 | 219.6 | 270.5 | 285.4 | 261.3 | 225.4 | 199.2 | 176.6 | 158.1 | 144.6 |
| 55° | 121.2 | 146.8 | 185.2 | 233.3 | 252.7 | 235.0 | 202.9 | 178.0 | 159.5 | 143.6 | 131.4 |
| 57.5° | 105.5 | 125.6 | 157.6 | 197.9 | 219.8 | 207.9 | 180.4 | 159.8 | 143.4 | 128.5 | 118.8 |
| 60° | 90.8 | 106.5 | 132.7 | 165.0 | 189.9 | 182.1 | 159.5 | 140.6 | 127.1 | 114.7 | 105.7 |
| 62.5° | 77.0 | 89.9 | 111.4 | 136.1 | 158.4 | 156.3 | 138.9 | 123.8 | 112.4 | 101.3 | 94.1 |
| 65° | 64.2 | 74.0 | 91.5 | 112.1 | 130.4 | 132.0 | 118.6 | 107.9 | 97.4 | 88.4 | 81.6 |
| 67.5° | 53.1 | 59.8 | 73.0 | 91.1 | 105.2 | 110.0 | 101.0 | 92.4 | 83.7 | 76.4 | 70.4 |
| 70° | 43.1 | 48.3 | 57.2 | 71.3 | 83.9 | 89.1 | 84.4 | 78.0 | 70.7 | 65.0 | 60.0 |
| 72.5° | 32.9 | 37.9 | 43.9 | 53.3 | 63.6 | 69.4 | 68.5 | 64.3 | 58.8 | 54.3 | 49.6 |
| 75° | 26.3 | 27.8 | 32.3 | 39.3 | 47.7 | 52.6 | 53.8 | 51.4 | 46.7 | 43.1 | 40.3 |
| 77.5° | 20.4 | 21.4 | 23.9 | 28.0 | 33.9 | 38.2 | 40.1 | 39.8 | 36.3 | 33.9 | 31.3 |
| 80° | 15.6 | 16.1 | 17.1 | 18.7 | 22.8 | 27.2 | 28.4 | 28.4 | 26.1 | 25.3 | 22.7 |
| 82.5° | 10.9 | 11.2 | 11.8 | 12.5 | 13.8 | 17.5 | 18.9 | 19.2 | 18.0 | 16.8 | 14.9 |
| 85° | 6.7 | 6.6 | 6.9 | 7.4 | 7.8 | 8.8 | 10.9 | 11.2 | 10.9 | 9.5 | 9.0 |
| 87.5° | 2.9 | 3.1 | 3.1 | 2.9 | 3.1 | 3.3 | 4.2 | 5.0 | 4.3 | 3.8 | 3.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333860

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CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 |
| 2.5° | 488.9 | 487.7 | 485.5 | 482.0 | 479.9 | 476.3 | 473.9 | 475.3 | 475.6 | 475.3 | 474.9 |
| 5° | 477.5 | 473.9 | 468.9 | 464.0 | 459.5 | 454.7 | 451.9 | 450.7 | 448.3 | 446.9 | 446.2 |
| 7.5° | 464.5 | 459.2 | 452.1 | 444.3 | 437.0 | 430.1 | 427.0 | 424.6 | 420.1 | 417.7 | 415.4 |
| 10° | 449.7 | 439.8 | 432.7 | 421.7 | 414.9 | 405.1 | 398.3 | 398.5 | 391.7 | 387.9 | 385.2 |
| 12.5° | 433.2 | 422.2 | 409.2 | 399.5 | 389.5 | 382.1 | 373.6 | 369.4 | 362.2 | 358.5 | 349.9 |
| 15° | 414.7 | 402.1 | 389.7 | 376.2 | 366.7 | 354.4 | 342.6 | 328.3 | 316.7 | 306.6 | 303.9 |
| 17.5° | 395.0 | 379.5 | 367.2 | 353.3 | 338.5 | 316.2 | 301.6 | 292.8 | 285.9 | 280.7 | 276.6 |
| 20° | 374.6 | 358.7 | 345.4 | 321.5 | 299.6 | 285.5 | 275.5 | 269.1 | 261.8 | 256.1 | 253.0 |
| 22.5° | 353.2 | 336.4 | 317.0 | 289.7 | 273.8 | 263.2 | 254.6 | 247.0 | 242.7 | 238.5 | 235.7 |
| 25° | 333.1 | 314.9 | 285.0 | 266.7 | 252.9 | 241.1 | 234.9 | 230.4 | 225.2 | 219.1 | 216.4 |
| 27.5° | 312.2 | 283.3 | 260.6 | 247.3 | 233.1 | 225.7 | 220.3 | 212.9 | 208.2 | 206.0 | 202.9 |
| 30° | 288.1 | 259.3 | 242.5 | 227.6 | 218.3 | 209.8 | 203.2 | 199.4 | 194.9 | 190.2 | 188.3 |
| 32.5° | 261.3 | 239.7 | 223.8 | 212.0 | 202.5 | 195.6 | 190.8 | 184.0 | 181.1 | 178.7 | 174.2 |
| 35° | 240.1 | 222.6 | 207.9 | 197.9 | 188.9 | 183.0 | 176.9 | 173.3 | 167.4 | 165.0 | 163.4 |
| 37.5° | 220.7 | 205.5 | 194.4 | 183.3 | 176.4 | 169.5 | 166.0 | 160.0 | 157.7 | 153.9 | 150.8 |
| 40° | 204.8 | 189.9 | 179.4 | 170.7 | 162.7 | 157.9 | 153.2 | 148.6 | 144.8 | 143.2 | 139.2 |
| 42.5° | 188.5 | 177.1 | 166.6 | 156.9 | 152.2 | 147.0 | 140.8 | 137.7 | 133.7 | 130.9 | 128.8 |
| 45° | 173.8 | 163.1 | 154.1 | 146.3 | 140.4 | 135.1 | 131.3 | 125.6 | 123.3 | 118.3 | 116.2 |
| 47.5° | 160.8 | 150.5 | 141.8 | 134.2 | 128.3 | 125.2 | 119.7 | 114.7 | 111.6 | 108.1 | 105.2 |
| 50° | 146.8 | 138.5 | 130.2 | 123.7 | 118.5 | 113.5 | 107.7 | 105.5 | 100.0 | 98.4 | 96.9 |
| 52.5° | 134.0 | 126.3 | 118.8 | 112.4 | 107.2 | 102.4 | 97.5 | 94.4 | 91.1 | 89.6 | 88.6 |
| 55° | 122.3 | 114.7 | 107.4 | 101.7 | 96.5 | 91.5 | 88.4 | 84.7 | 83.0 | 81.8 | 80.4 |
| 57.5° | 110.2 | 103.3 | 97.5 | 91.7 | 86.5 | 82.3 | 78.5 | 76.4 | 74.7 | 73.3 | 71.4 |
| 60° | 98.8 | 92.2 | 87.2 | 81.8 | 76.4 | 73.2 | 70.4 | 67.8 | 65.7 | 63.3 | 62.6 |
| 62.5° | 86.6 | 81.1 | 76.6 | 71.4 | 66.9 | 64.0 | 61.4 | 59.0 | 56.4 | 52.6 | 51.5 |
| 65° | 75.8 | 71.3 | 66.4 | 62.1 | 57.9 | 55.0 | 51.2 | 48.4 | 47.4 | 47.0 | 46.9 |
| 67.5° | 65.7 | 61.4 | 57.2 | 52.8 | 48.9 | 45.7 | 43.4 | 43.1 | 42.4 | 42.2 | 41.7 |
| 70° | 55.7 | 51.7 | 47.6 | 43.4 | 39.8 | 39.3 | 38.6 | 37.9 | 37.0 | 36.7 | 36.3 |
| 72.5° | 46.7 | 42.5 | 38.4 | 35.3 | 34.2 | 33.6 | 32.9 | 32.2 | 31.7 | 31.3 | 31.1 |
| 75° | 37.2 | 33.4 | 30.6 | 29.4 | 28.5 | 28.0 | 27.0 | 26.5 | 26.1 | 25.6 | 25.4 |
| 77.5° | 28.4 | 25.9 | 24.6 | 23.9 | 22.8 | 22.3 | 21.6 | 21.1 | 20.6 | 20.6 | 20.2 |
| 80° | 20.4 | 19.4 | 18.5 | 17.5 | 17.1 | 16.4 | 16.3 | 15.7 | 15.9 | 15.4 | 15.4 |
| 82.5° | 14.7 | 13.3 | 12.6 | 12.3 | 11.9 | 11.4 | 11.2 | 11.1 | 11.1 | 10.7 | 10.7 |
| 85° | 8.1 | 7.8 | 7.4 | 7.1 | 7.1 | 6.6 | 6.7 | 6.6 | 6.6 | 6.2 | 6.1 |
| 87.5° | 3.3 | 3.1 | 2.8 | 2.8 | 2.8 | 2.6 | 2.6 | 2.4 | 2.4 | 2.4 | 2.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333860

CATALOG NUMBER: SA2XXRDP-C290D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 497.8 | 497.8 | 497.8 | 497.8 |
| 2.5° | 473.0 | 473.4 | 472.9 | 473.2 |
| 5° | 445.4 | 443.3 | 442.9 | 442.4 |
| 7.5° | 412.7 | 412.5 | 411.5 | 410.2 |
| 10° | 381.4 | 380.5 | 380.3 | 379.1 |
| 12.5° | 344.7 | 337.9 | 337.3 | 333.8 |
| 15° | 299.7 | 298.7 | 295.2 | 293.0 |
| 17.5° | 274.6 | 271.2 | 270.0 | 269.5 |
| 20° | 250.6 | 247.5 | 247.0 | 246.6 |
| 22.5° | 234.0 | 230.7 | 229.2 | 228.0 |
| 25° | 214.6 | 213.4 | 212.7 | 212.4 |
| 27.5° | 199.4 | 196.3 | 196.0 | 195.1 |
| 30° | 186.8 | 185.9 | 184.7 | 183.7 |
| 32.5° | 171.9 | 171.2 | 170.2 | 169.8 |
| 35° | 161.7 | 159.3 | 158.3 | 156.7 |
| 37.5° | 150.5 | 149.1 | 147.4 | 148.0 |
| 40° | 137.0 | 136.1 | 135.8 | 135.6 |
| 42.5° | 126.3 | 123.5 | 122.5 | 122.5 |
| 45° | 115.4 | 113.1 | 111.6 | 111.7 |
| 47.5° | 103.6 | 103.8 | 102.7 | 103.1 |
| 50° | 95.6 | 94.6 | 93.9 | 94.1 |
| 52.5° | 88.0 | 87.2 | 86.6 | 87.5 |
| 55° | 79.6 | 78.5 | 78.3 | 78.2 |
| 57.5° | 70.4 | 69.9 | 69.0 | 68.5 |
| 60° | 60.4 | 59.0 | 57.2 | 57.1 |
| 62.5° | 51.2 | 51.2 | 51.2 | 51.2 |
| 65° | 46.5 | 46.4 | 46.5 | 46.7 |
| 67.5° | 41.7 | 41.3 | 41.0 | 41.2 |
| 70° | 36.0 | 35.8 | 35.6 | 35.6 |
| 72.5° | 30.4 | 30.4 | 30.3 | 30.1 |
| 75° | 25.3 | 24.9 | 24.9 | 24.9 |
| 77.5° | 20.2 | 20.1 | 19.9 | 19.7 |
| 80° | 15.2 | 15.0 | 14.9 | 14.9 |
| 82.5° | 10.7 | 10.6 | 10.6 | 10.4 |
| 85° | 6.2 | 6.4 | 6.2 | 6.6 |
| 87.5° | 2.2 | 2.1 | 2.2 | 2.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)