

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: P332425-930

Luminaire Tested: **S123RDIW-S560D1320U930-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332425-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S560D1320U930-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5473.2 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Indirect

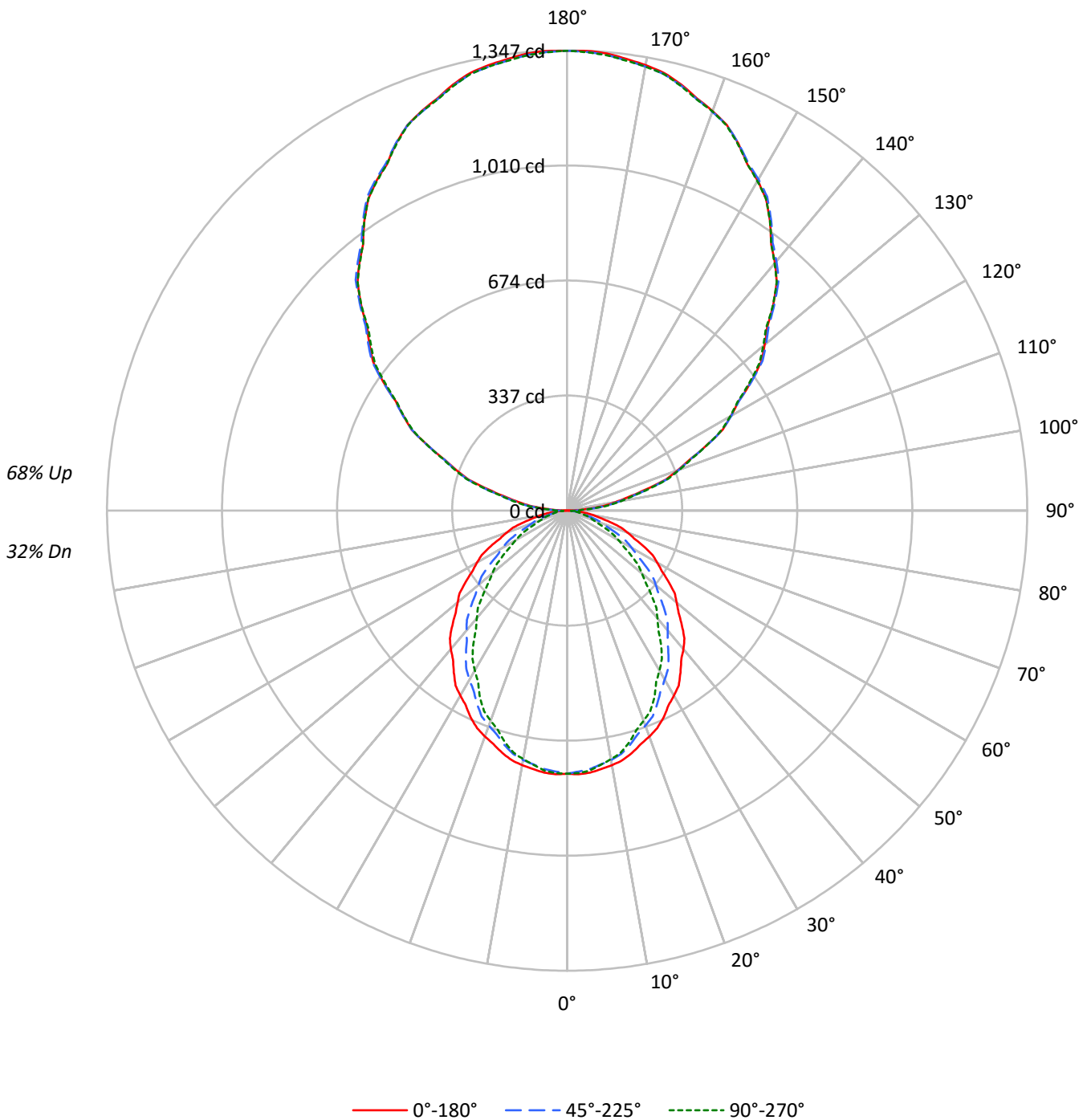
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332425-930

CATALOG NUMBER: S123RDIW-S560D1320U930-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332425-930

CATALOG NUMBER: S123RDIW-S560D1320U930-4F0-1E-UDD-F1

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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 73 | 73 | 73 | 56 | 56 | 56 | 39 | 39 | 39 | 32 |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 48 | 47 | 35 | 34 | 34 | 27 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 29 | 23 |
| 3 | 78 | 69 | 62 | 57 | 70 | 63 | 57 | 52 | 50 | 46 | 42 | 38 | 36 | 33 | 28 | 26 | 25 | 20 |
| 4 | 72 | 61 | 54 | 48 | 64 | 55 | 49 | 44 | 45 | 40 | 36 | 34 | 31 | 29 | 25 | 23 | 21 | 17 |
| 5 | 66 | 55 | 47 | 41 | 59 | 49 | 43 | 38 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 20 | 19 | 15 |
| 6 | 60 | 49 | 41 | 36 | 54 | 44 | 38 | 33 | 36 | 31 | 27 | 28 | 24 | 22 | 20 | 18 | 16 | 13 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 29 | 32 | 28 | 24 | 25 | 22 | 19 | 19 | 16 | 15 | 12 |
| 8 | 52 | 40 | 32 | 27 | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 11 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 14 | 12 | 10 |
| 10 | 45 | 33 | 26 | 22 | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8289 | 8289 | 8289 |
| 5° | 8321 | 8206 | 8253 |
| 10° | 8273 | 8103 | 8075 |
| 15° | 8184 | 7913 | 7830 |
| 20° | 8062 | 7676 | 7497 |
| 25° | 7936 | 7410 | 7172 |
| 30° | 7771 | 7102 | 6714 |
| 35° | 7599 | 6795 | 6294 |
| 40° | 7442 | 6433 | 5774 |
| 45° | 7234 | 6075 | 5305 |
| 50° | 7006 | 5668 | 4779 |
| 55° | 6775 | 5204 | 4290 |
| 60° | 6562 | 4706 | 3750 |
| 65° | 6283 | 4167 | 3212 |
| 70° | 5936 | 3500 | 2593 |
| 75° | 5427 | 2753 | 2441 |
| 80° | 4841 | 2442 | 2244 |
| 85° | 4088 | 2149 | 2001 |



TEST NUMBER: P332425-930

CATALOG NUMBER: S123RDIW-S560D1320U930-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.3 | 1.3 |
| 10°-20° | 201.2 | 3.7 |
| 20°-30° | 289.7 | 5.3 |
| 30°-40° | 326.3 | 6.0 |
| 40°-50° | 312.2 | 5.7 |
| 50°-60° | 255.7 | 4.7 |
| 60°-70° | 172.5 | 3.2 |
| 70°-80° | 86.8 | 1.6 |
| 80°-90° | 26.9 | 0.5 |
| 90°-100° | 87.7 | 1.6 |
| 100°-110° | 262.5 | 4.8 |
| 110°-120° | 446.4 | 8.2 |
| 120°-130° | 587.2 | 10.7 |
| 130°-140° | 660.0 | 12.1 |
| 140°-150° | 648.8 | 11.9 |
| 150°-160° | 546.2 | 10.0 |
| 160°-170° | 363.6 | 6.6 |
| 170°-180° | 127.3 | 2.3 |
| 0°-30° | 563.2 | 10.3 |
| 0°-40° | 889.5 | 16.3 |
| 0°-60° | 1457.4 | 26.6 |
| 0°-90° | 1743.6 | 31.9 |
| 90°-120° | 796.6 | 14.6 |
| 90°-150° | 2692.5 | 49.2 |
| 90°-180° | 3730.0 | 68.2 |
| 0°-180° | 5473.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 770 | 770 | 770 | 770 | 770 | |
| 5° | 770 | 767 | 760 | 765 | 764 | 73 |
| 15° | 734 | 727 | 710 | 707 | 703 | 207 |
| 25° | 668 | 652 | 624 | 611 | 604 | 307 |
| 35° | 578 | 555 | 517 | 491 | 479 | 362 |
| 45° | 475 | 446 | 399 | 365 | 348 | 367 |
| 55° | 361 | 329 | 277 | 242 | 229 | 324 |
| 65° | 247 | 212 | 164 | 134 | 126 | 244 |
| 75° | 130 | 100 | 66 | 60 | 59 | 139 |
| 85° | 33 | 20 | 17 | 16 | 16 | 37 |
| 90° | 1 | 12 | 25 | 29 | 32 | 5 |
| 95° | 62 | 70 | 78 | 82 | 82 | 70 |
| 105° | 238 | 240 | 250 | 250 | 252 | 255 |
| 115° | 449 | 452 | 450 | 451 | 450 | 444 |
| 125° | 658 | 661 | 659 | 655 | 650 | 586 |
| 135° | 853 | 859 | 859 | 854 | 852 | 657 |
| 145° | 1035 | 1037 | 1040 | 1039 | 1035 | 646 |
| 155° | 1185 | 1185 | 1186 | 1190 | 1183 | 545 |
| 165° | 1291 | 1288 | 1288 | 1294 | 1287 | 364 |
| 175° | 1343 | 1339 | 1339 | 1344 | 1338 | 128 |
| 180° | 1346 | 1346 | 1346 | 1346 | 1346 | |



TEST NUMBER: P332425-930

CATALOG NUMBER: S123RDIW-S560D1320U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 |
| 2.5° | 772.6 | 772.1 | 771.7 | 771.2 | 770.8 | 769.9 | 768.6 | 767.2 | 765.9 | 764.6 | 765.8 |
| 5° | 770.1 | 769.4 | 768.7 | 768.0 | 767.3 | 766.1 | 764.4 | 762.8 | 761.1 | 759.5 | 760.7 |
| 7.5° | 763.0 | 762.2 | 761.4 | 760.7 | 759.9 | 758.5 | 756.4 | 754.2 | 752.0 | 749.8 | 750.5 |
| 10° | 756.9 | 755.9 | 755.0 | 754.0 | 753.1 | 751.3 | 748.9 | 746.3 | 743.8 | 741.4 | 741.4 |
| 12.5° | 748.4 | 747.4 | 746.2 | 745.2 | 744.1 | 742.1 | 739.0 | 736.0 | 732.9 | 729.9 | 729.8 |
| 15° | 734.4 | 733.0 | 731.4 | 729.9 | 728.4 | 725.6 | 721.8 | 717.9 | 714.0 | 710.1 | 709.4 |
| 17.5° | 716.8 | 715.1 | 713.3 | 711.5 | 709.7 | 706.4 | 701.4 | 696.5 | 691.5 | 686.6 | 685.2 |
| 20° | 703.8 | 701.6 | 699.4 | 697.2 | 695.0 | 691.2 | 685.9 | 680.7 | 675.4 | 670.1 | 668.3 |
| 22.5° | 689.3 | 686.8 | 684.3 | 681.7 | 679.1 | 675.1 | 669.4 | 663.8 | 658.3 | 652.6 | 650.4 |
| 25° | 668.2 | 664.8 | 661.3 | 657.9 | 654.4 | 649.5 | 643.0 | 636.7 | 630.3 | 623.9 | 621.0 |
| 27.5° | 642.6 | 638.8 | 635.0 | 631.1 | 627.3 | 621.8 | 614.7 | 607.6 | 600.5 | 593.5 | 589.4 |
| 30° | 625.2 | 621.0 | 616.9 | 612.7 | 608.5 | 602.5 | 594.8 | 587.0 | 579.2 | 571.4 | 566.7 |
| 32.5° | 607.6 | 603.0 | 598.3 | 593.5 | 588.8 | 582.4 | 574.1 | 565.9 | 557.7 | 549.4 | 544.3 |
| 35° | 578.3 | 573.3 | 568.3 | 563.4 | 558.3 | 551.5 | 542.9 | 534.3 | 525.7 | 517.1 | 511.1 |
| 37.5° | 548.6 | 543.1 | 537.5 | 531.9 | 526.4 | 519.0 | 509.8 | 500.7 | 491.5 | 482.2 | 475.5 |
| 40° | 529.6 | 523.5 | 517.4 | 511.3 | 505.2 | 497.2 | 487.4 | 477.5 | 467.7 | 457.8 | 450.5 |
| 42.5° | 508.1 | 502.0 | 495.9 | 489.8 | 483.7 | 475.6 | 465.4 | 455.2 | 445.0 | 434.8 | 426.9 |
| 45° | 475.2 | 469.0 | 462.8 | 456.6 | 450.3 | 441.8 | 431.1 | 420.4 | 409.8 | 399.1 | 391.2 |
| 47.5° | 442.4 | 435.5 | 428.7 | 421.8 | 415.0 | 406.3 | 395.5 | 384.8 | 374.1 | 363.5 | 354.9 |
| 50° | 418.4 | 411.9 | 405.4 | 398.8 | 392.3 | 383.4 | 372.2 | 361.0 | 349.8 | 338.5 | 329.9 |
| 52.5° | 397.0 | 389.9 | 382.8 | 375.7 | 368.7 | 359.5 | 348.4 | 337.3 | 326.1 | 315.0 | 306.1 |
| 55° | 361.0 | 354.2 | 347.4 | 340.6 | 333.8 | 324.5 | 312.7 | 300.9 | 289.1 | 277.3 | 269.2 |
| 57.5° | 327.8 | 320.3 | 312.9 | 305.5 | 298.1 | 288.5 | 276.6 | 264.8 | 252.9 | 241.1 | 233.5 |
| 60° | 304.8 | 297.2 | 289.5 | 281.8 | 274.3 | 264.6 | 253.2 | 241.7 | 230.1 | 218.6 | 211.1 |
| 62.5° | 281.8 | 274.2 | 266.5 | 258.9 | 251.3 | 241.7 | 230.2 | 218.7 | 207.1 | 195.6 | 188.6 |
| 65° | 246.7 | 239.0 | 231.5 | 223.8 | 216.1 | 206.9 | 196.1 | 185.3 | 174.5 | 163.6 | 156.9 |
| 67.5° | 211.6 | 203.9 | 196.2 | 188.4 | 180.8 | 171.7 | 161.3 | 150.9 | 140.6 | 130.1 | 125.1 |
| 70° | 188.6 | 181.1 | 173.7 | 166.2 | 158.7 | 150.0 | 140.3 | 130.6 | 120.9 | 111.2 | 106.3 |
| 72.5° | 165.6 | 158.2 | 150.8 | 143.5 | 136.1 | 128.0 | 119.2 | 110.3 | 101.5 | 92.7 | 88.7 |
| 75° | 130.5 | 123.8 | 117.2 | 110.6 | 103.9 | 96.7 | 89.1 | 81.4 | 73.9 | 66.2 | 64.8 |
| 77.5° | 98.6 | 92.5 | 86.5 | 80.5 | 74.4 | 69.0 | 64.1 | 59.2 | 54.2 | 49.3 | 48.6 |
| 80° | 78.1 | 72.4 | 66.7 | 61.0 | 55.3 | 51.0 | 48.1 | 45.2 | 42.2 | 39.4 | 38.9 |
| 82.5° | 58.6 | 53.6 | 48.8 | 43.9 | 38.9 | 35.8 | 34.4 | 33.1 | 31.7 | 30.3 | 29.9 |
| 85° | 33.1 | 30.1 | 27.0 | 24.0 | 20.9 | 19.2 | 18.8 | 18.3 | 17.9 | 17.4 | 17.2 |
| 87.5° | 12.2 | 11.4 | 10.7 | 9.9 | 9.2 | 9.1 | 9.7 | 10.4 | 10.9 | 11.6 | 11.7 |
| 90° | 1.1 | 3.4 | 5.8 | 8.1 | 10.4 | 13.1 | 16.2 | 19.2 | 22.3 | 25.4 | 26.3 |
| 92.5° | 25.6 | 27.1 | 28.8 | 30.4 | 32.0 | 33.7 | 35.4 | 37.1 | 38.9 | 40.6 | 41.3 |
| 95° | 62.4 | 64.0 | 65.7 | 67.3 | 69.0 | 70.8 | 72.6 | 74.5 | 76.4 | 78.3 | 79.2 |
| 97.5° | 110.8 | 112.0 | 113.2 | 114.5 | 115.7 | 117.0 | 118.4 | 119.7 | 121.1 | 122.5 | 123.5 |
| 100° | 143.8 | 145.2 | 146.6 | 148.1 | 149.4 | 150.7 | 151.9 | 153.1 | 154.3 | 155.5 | 156.1 |
| 102.5° | 181.9 | 182.7 | 183.6 | 184.4 | 185.2 | 186.5 | 188.0 | 189.6 | 191.1 | 192.7 | 193.4 |
| 105° | 237.9 | 238.4 | 238.9 | 239.3 | 239.8 | 241.1 | 243.2 | 245.3 | 247.4 | 249.6 | 249.6 |
| 107.5° | 303.0 | 303.4 | 303.6 | 303.9 | 304.2 | 304.8 | 305.6 | 306.5 | 307.3 | 308.1 | 308.9 |
| 110° | 343.6 | 344.1 | 344.6 | 345.0 | 345.5 | 346.0 | 346.5 | 347.0 | 347.4 | 347.9 | 348.9 |



TEST NUMBER: P332425-930

CATALOG NUMBER: S123RDIW-S560D1320U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 386.0 | 386.2 | 386.5 | 386.8 | 387.1 | 387.3 | 387.3 | 387.4 | 387.6 | 387.7 | 388.8 |
| 115° | 449.4 | 450.1 | 450.8 | 451.5 | 452.2 | 452.3 | 451.8 | 451.4 | 450.9 | 450.5 | 450.7 |
| 117.5° | 513.3 | 513.7 | 514.2 | 514.7 | 515.2 | 515.1 | 514.5 | 513.9 | 513.2 | 512.7 | 512.6 |
| 120° | 553.0 | 554.4 | 555.9 | 557.3 | 558.6 | 558.8 | 557.6 | 556.4 | 555.3 | 554.1 | 553.8 |
| 122.5° | 594.5 | 595.5 | 596.6 | 597.6 | 598.6 | 598.8 | 598.2 | 597.6 | 597.0 | 596.4 | 595.7 |
| 125° | 657.7 | 658.4 | 659.1 | 659.8 | 660.6 | 660.6 | 660.1 | 659.7 | 659.3 | 658.8 | 657.9 |
| 127.5° | 716.1 | 717.6 | 719.1 | 720.6 | 722.1 | 722.6 | 722.1 | 721.5 | 721.1 | 720.6 | 719.2 |
| 130° | 755.0 | 756.8 | 758.8 | 760.7 | 762.5 | 763.1 | 762.4 | 761.7 | 761.0 | 760.3 | 759.4 |
| 132.5° | 793.9 | 795.8 | 797.7 | 799.6 | 801.4 | 802.1 | 801.6 | 801.1 | 800.5 | 800.1 | 798.9 |
| 135° | 853.4 | 854.8 | 856.1 | 857.5 | 859.0 | 859.6 | 859.3 | 859.1 | 858.8 | 858.6 | 857.7 |
| 137.5° | 908.3 | 909.5 | 910.7 | 911.8 | 913.1 | 914.0 | 914.5 | 915.2 | 915.7 | 916.4 | 915.3 |
| 140° | 946.4 | 947.5 | 948.8 | 949.9 | 951.1 | 951.8 | 952.0 | 952.3 | 952.5 | 952.8 | 952.5 |
| 142.5° | 981.0 | 982.3 | 983.4 | 984.6 | 985.8 | 986.6 | 987.0 | 987.4 | 987.8 | 988.3 | 988.1 |
| 145° | 1035.2 | 1035.7 | 1036.2 | 1036.7 | 1037.1 | 1037.7 | 1038.4 | 1039.1 | 1039.8 | 1040.5 | 1040.2 |
| 147.5° | 1082.6 | 1083.5 | 1084.3 | 1085.2 | 1086.0 | 1086.7 | 1087.4 | 1088.0 | 1088.7 | 1089.3 | 1089.3 |
| 150° | 1115.6 | 1116.1 | 1116.6 | 1117.0 | 1117.4 | 1117.9 | 1118.4 | 1118.8 | 1119.3 | 1119.8 | 1119.8 |
| 152.5° | 1142.6 | 1143.3 | 1143.9 | 1144.6 | 1145.3 | 1145.7 | 1146.1 | 1146.3 | 1146.6 | 1146.9 | 1147.3 |
| 155° | 1185.4 | 1185.4 | 1185.4 | 1185.4 | 1185.4 | 1185.5 | 1185.7 | 1185.9 | 1186.2 | 1186.4 | 1187.4 |
| 157.5° | 1221.7 | 1221.5 | 1221.2 | 1220.9 | 1220.6 | 1220.6 | 1220.7 | 1220.9 | 1221.2 | 1221.3 | 1222.3 |
| 160° | 1244.6 | 1244.1 | 1243.7 | 1243.2 | 1242.7 | 1242.4 | 1242.4 | 1242.4 | 1242.4 | 1242.4 | 1243.7 |
| 162.5° | 1264.9 | 1264.2 | 1263.6 | 1262.9 | 1262.2 | 1262.0 | 1262.2 | 1262.4 | 1262.6 | 1262.7 | 1264.0 |
| 165° | 1291.1 | 1290.4 | 1289.7 | 1289.0 | 1288.3 | 1287.9 | 1287.9 | 1287.9 | 1287.9 | 1287.9 | 1289.3 |
| 167.5° | 1312.1 | 1311.1 | 1310.2 | 1309.2 | 1308.3 | 1307.9 | 1308.1 | 1308.3 | 1308.5 | 1308.6 | 1310.1 |
| 170° | 1323.9 | 1323.0 | 1322.0 | 1321.1 | 1320.1 | 1319.6 | 1319.6 | 1319.6 | 1319.6 | 1319.6 | 1321.3 |
| 172.5° | 1333.2 | 1332.3 | 1331.3 | 1330.4 | 1329.4 | 1328.9 | 1328.9 | 1328.9 | 1328.9 | 1328.9 | 1330.4 |
| 175° | 1343.0 | 1342.0 | 1341.1 | 1340.1 | 1339.1 | 1338.7 | 1338.7 | 1338.7 | 1338.7 | 1338.7 | 1340.1 |
| 177.5° | 1347.0 | 1346.2 | 1345.4 | 1344.7 | 1343.9 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1344.7 |
| 180° | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 |



TEST NUMBER: P332425-930

CATALOG NUMBER: S123RDIW-S560D1320U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 | 770.1 |
| 2.5° | 767.0 | 768.3 | 769.5 | 770.0 | 769.7 | 769.5 | 769.3 | 769.1 |
| 5° | 761.9 | 763.2 | 764.4 | 764.9 | 764.7 | 764.3 | 764.1 | 763.8 |
| 7.5° | 751.2 | 751.9 | 752.6 | 752.7 | 752.2 | 751.8 | 751.3 | 750.8 |
| 10° | 741.6 | 741.8 | 741.8 | 741.6 | 740.9 | 740.2 | 739.6 | 738.8 |
| 12.5° | 729.7 | 729.6 | 729.5 | 729.0 | 728.2 | 727.4 | 726.7 | 725.9 |
| 15° | 708.7 | 708.0 | 707.4 | 706.5 | 705.5 | 704.6 | 703.6 | 702.6 |
| 17.5° | 683.7 | 682.2 | 680.7 | 679.3 | 677.8 | 676.4 | 674.9 | 673.5 |
| 20° | 666.5 | 664.7 | 662.9 | 661.2 | 659.5 | 657.9 | 656.2 | 654.5 |
| 22.5° | 648.2 | 645.9 | 643.7 | 641.7 | 640.2 | 638.6 | 637.1 | 635.5 |
| 25° | 618.1 | 615.1 | 612.3 | 610.0 | 608.5 | 607.0 | 605.4 | 603.9 |
| 27.5° | 585.3 | 581.3 | 577.2 | 574.1 | 571.7 | 569.4 | 567.0 | 564.7 |
| 30° | 562.0 | 557.3 | 552.6 | 549.1 | 546.9 | 544.7 | 542.4 | 540.2 |
| 32.5° | 539.2 | 533.9 | 528.8 | 525.1 | 522.8 | 520.4 | 518.0 | 515.8 |
| 35° | 505.2 | 499.2 | 493.3 | 489.0 | 486.5 | 484.0 | 481.5 | 479.0 |
| 37.5° | 468.7 | 461.9 | 455.2 | 450.3 | 447.2 | 444.1 | 441.0 | 437.9 |
| 40° | 443.4 | 436.1 | 428.9 | 423.7 | 420.5 | 417.4 | 414.2 | 410.9 |
| 42.5° | 419.1 | 411.2 | 403.2 | 397.9 | 395.0 | 392.2 | 389.3 | 386.5 |
| 45° | 383.3 | 375.4 | 367.5 | 361.8 | 358.5 | 355.1 | 351.8 | 348.5 |
| 47.5° | 346.3 | 337.7 | 329.1 | 323.3 | 320.3 | 317.3 | 314.4 | 311.4 |
| 50° | 321.3 | 312.7 | 304.1 | 298.2 | 295.0 | 291.8 | 288.6 | 285.4 |
| 52.5° | 297.2 | 288.2 | 279.2 | 273.4 | 270.5 | 267.7 | 264.8 | 262.0 |
| 55° | 261.2 | 253.2 | 245.1 | 239.7 | 236.9 | 234.2 | 231.4 | 228.6 |
| 57.5° | 225.8 | 218.3 | 210.7 | 205.7 | 203.3 | 201.0 | 198.6 | 196.2 |
| 60° | 203.6 | 196.1 | 188.6 | 183.7 | 181.3 | 179.0 | 176.6 | 174.2 |
| 62.5° | 181.5 | 174.5 | 167.4 | 162.7 | 160.2 | 157.7 | 155.2 | 152.8 |
| 65° | 150.0 | 143.2 | 136.4 | 132.2 | 130.8 | 129.2 | 127.7 | 126.1 |
| 67.5° | 120.0 | 114.9 | 109.8 | 106.5 | 104.8 | 103.2 | 101.6 | 100.0 |
| 70° | 101.4 | 96.6 | 91.7 | 88.5 | 87.0 | 85.5 | 84.0 | 82.4 |
| 72.5° | 84.7 | 80.8 | 76.8 | 74.5 | 73.9 | 73.2 | 72.6 | 71.9 |
| 75° | 63.4 | 62.0 | 60.7 | 59.8 | 59.5 | 59.3 | 58.9 | 58.7 |
| 77.5° | 47.9 | 47.1 | 46.3 | 45.8 | 45.6 | 45.2 | 45.0 | 44.7 |
| 80° | 38.5 | 38.1 | 37.7 | 37.3 | 37.1 | 36.8 | 36.5 | 36.2 |
| 82.5° | 29.5 | 29.1 | 28.7 | 28.5 | 28.4 | 28.4 | 28.3 | 28.2 |
| 85° | 17.0 | 16.6 | 16.4 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 |
| 87.5° | 11.7 | 11.8 | 11.9 | 11.9 | 11.9 | 11.9 | 11.8 | 11.8 |
| 90° | 27.2 | 28.2 | 29.1 | 29.8 | 30.3 | 30.8 | 31.2 | 31.7 |
| 92.5° | 42.1 | 42.9 | 43.6 | 43.9 | 43.5 | 43.3 | 43.0 | 42.7 |
| 95° | 80.1 | 81.0 | 82.0 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 |
| 97.5° | 124.6 | 125.7 | 126.8 | 127.3 | 127.2 | 127.1 | 127.0 | 126.9 |
| 100° | 156.9 | 157.5 | 158.2 | 158.8 | 159.3 | 159.8 | 160.3 | 160.7 |
| 102.5° | 194.0 | 194.8 | 195.5 | 195.8 | 195.7 | 195.6 | 195.5 | 195.4 |
| 105° | 249.6 | 249.6 | 249.6 | 249.8 | 250.3 | 250.7 | 251.2 | 251.7 |
| 107.5° | 309.7 | 310.4 | 311.1 | 311.4 | 311.1 | 310.8 | 310.5 | 310.2 |
| 110° | 349.8 | 350.7 | 351.6 | 351.9 | 351.4 | 351.0 | 350.5 | 350.0 |



TEST NUMBER: P332425-930

CATALOG NUMBER: S123RDIW-S560D1320U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 389.9 | 391.0 | 392.2 | 392.6 | 392.6 | 392.5 | 392.4 | 392.3 |
| 115° | 450.9 | 451.2 | 451.4 | 451.4 | 451.2 | 450.9 | 450.7 | 450.5 |
| 117.5° | 512.6 | 512.5 | 512.4 | 512.1 | 511.4 | 510.8 | 510.1 | 509.5 |
| 120° | 553.6 | 553.4 | 553.2 | 552.8 | 552.4 | 551.9 | 551.4 | 550.9 |
| 122.5° | 595.2 | 594.5 | 593.9 | 593.3 | 592.6 | 592.0 | 591.3 | 590.7 |
| 125° | 656.9 | 656.0 | 655.0 | 654.1 | 653.1 | 652.2 | 651.3 | 650.3 |
| 127.5° | 717.9 | 716.6 | 715.3 | 714.0 | 713.0 | 711.9 | 710.9 | 709.7 |
| 130° | 758.4 | 757.5 | 756.5 | 755.2 | 753.6 | 752.0 | 750.3 | 748.7 |
| 132.5° | 797.8 | 796.6 | 795.6 | 794.3 | 793.0 | 791.8 | 790.5 | 789.3 |
| 135° | 856.7 | 855.8 | 854.8 | 854.2 | 853.7 | 853.2 | 852.7 | 852.3 |
| 137.5° | 914.4 | 913.4 | 912.4 | 911.5 | 910.6 | 909.7 | 908.8 | 907.9 |
| 140° | 952.3 | 952.0 | 951.8 | 950.9 | 949.3 | 947.5 | 945.9 | 944.3 |
| 142.5° | 987.8 | 987.6 | 987.3 | 986.6 | 985.3 | 984.1 | 982.8 | 981.5 |
| 145° | 1040.0 | 1039.8 | 1039.6 | 1039.0 | 1038.0 | 1037.1 | 1036.2 | 1035.2 |
| 147.5° | 1089.3 | 1089.3 | 1089.3 | 1088.7 | 1087.3 | 1085.8 | 1084.4 | 1083.0 |
| 150° | 1119.8 | 1119.8 | 1119.8 | 1119.1 | 1117.7 | 1116.3 | 1114.8 | 1113.5 |
| 152.5° | 1147.6 | 1148.0 | 1148.3 | 1147.9 | 1146.7 | 1145.5 | 1144.3 | 1143.0 |
| 155° | 1188.3 | 1189.3 | 1190.2 | 1189.8 | 1188.2 | 1186.6 | 1184.9 | 1183.2 |
| 157.5° | 1223.3 | 1224.3 | 1225.3 | 1225.1 | 1223.8 | 1222.5 | 1221.2 | 1219.9 |
| 160° | 1244.8 | 1246.0 | 1247.2 | 1247.3 | 1246.3 | 1245.5 | 1244.5 | 1243.5 |
| 162.5° | 1265.1 | 1266.3 | 1267.5 | 1267.3 | 1265.8 | 1264.3 | 1262.8 | 1261.3 |
| 165° | 1290.8 | 1292.2 | 1293.6 | 1293.5 | 1291.8 | 1290.2 | 1288.5 | 1286.9 |
| 167.5° | 1311.6 | 1313.0 | 1314.5 | 1314.5 | 1313.0 | 1311.6 | 1310.1 | 1308.6 |
| 170° | 1323.0 | 1324.6 | 1326.2 | 1326.2 | 1324.6 | 1323.0 | 1321.3 | 1319.6 |
| 172.5° | 1331.9 | 1333.3 | 1334.8 | 1334.7 | 1333.1 | 1331.4 | 1329.8 | 1328.1 |
| 175° | 1341.5 | 1343.0 | 1344.3 | 1344.2 | 1342.6 | 1340.9 | 1339.3 | 1337.7 |
| 177.5° | 1345.8 | 1347.0 | 1348.1 | 1348.0 | 1346.6 | 1345.3 | 1344.0 | 1342.7 |
| 180° | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 | 1346.1 |

(END OF REPORT)