

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: P334459

Luminaire Tested: **S122IP-S1080U927-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S1080U927-4F0-1E-UDD-4
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

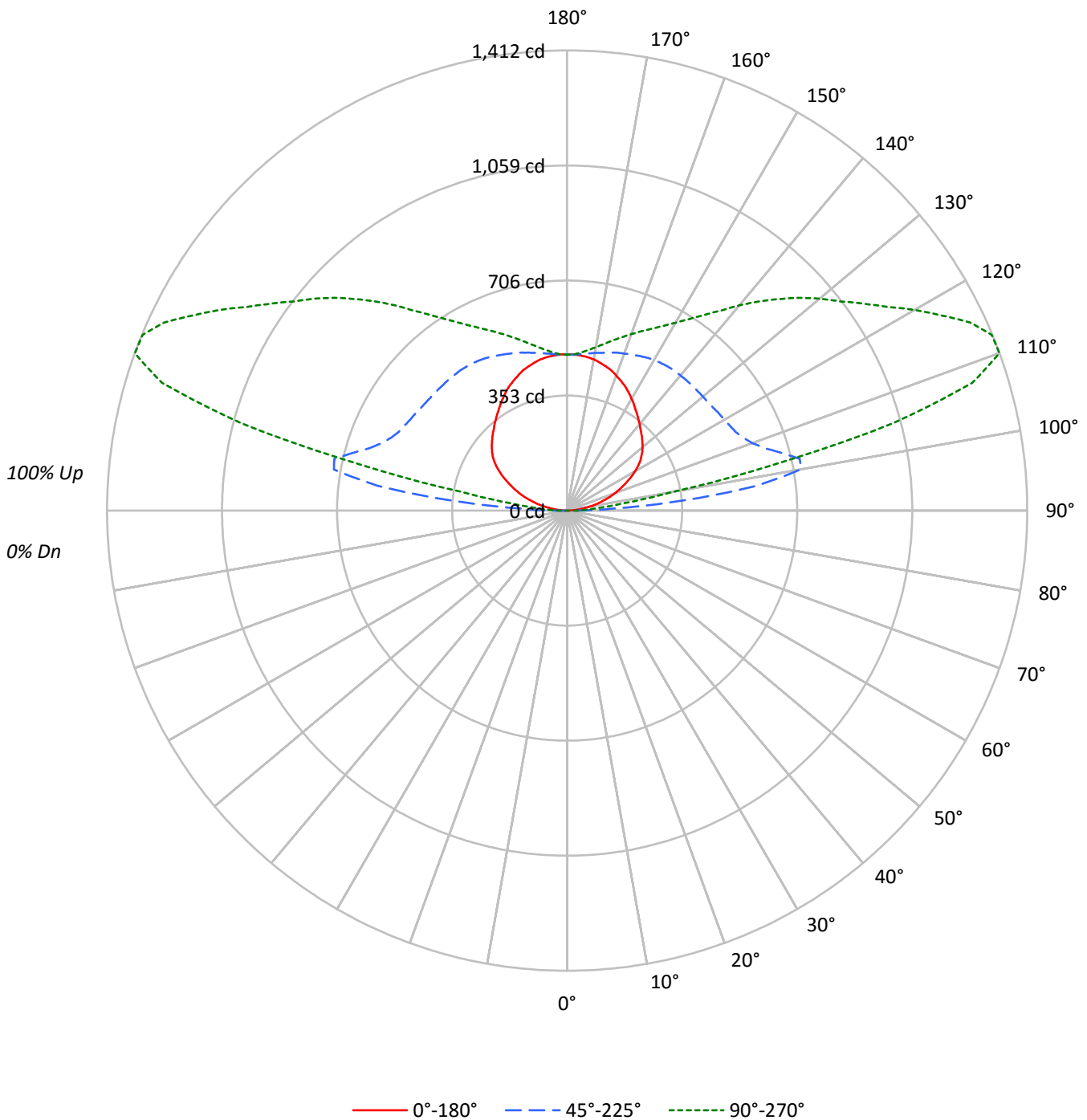
Lumens per Lamp: N/A
Luminaire Lumens: 3335.6 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.9
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: P334459
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Luminous Intensity Polar Plot





TEST NUMBER: P334459

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-UDD-4

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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0° | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P334459

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-UDD-4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 3.1 | 0.1 |
| 90°-100° | 186.5 | 5.6 |
| 100°-110° | 656.9 | 19.7 |
| 110°-120° | 690.0 | 20.7 |
| 120°-130° | 567.6 | 17.0 |
| 130°-140° | 456.0 | 13.7 |
| 140°-150° | 344.4 | 10.3 |
| 150°-160° | 242.1 | 7.3 |
| 160°-170° | 142.5 | 4.3 |
| 170°-180° | 46.4 | 1.4 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 3.1 | 0.1 |
| 90°-120° | 1533.4 | 46.0 |
| 90°-150° | 2901.5 | 87.0 |
| 90°-180° | 3333.0 | 99.9 |
| 0°-180° | 3335.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 1 | 12 | 31 | 30 | 30 | 2 |
| 95° | 32 | 79 | 361 | 136 | 105 | 33 |
| 105° | 112 | 169 | 682 | 1219 | 1037 | 119 |
| 115° | 198 | 250 | 571 | 1178 | 1365 | 196 |
| 125° | 276 | 327 | 548 | 954 | 1107 | 245 |
| 135° | 324 | 386 | 542 | 802 | 918 | 250 |
| 145° | 370 | 425 | 539 | 669 | 732 | 232 |
| 155° | 421 | 454 | 524 | 592 | 616 | 194 |
| 165° | 458 | 472 | 502 | 532 | 540 | 129 |
| 175° | 478 | 478 | 482 | 488 | 487 | 45 |
| 180° | 478 | 478 | 478 | 478 | 478 | |



TEST NUMBER: P334459

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-UDD-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.9 | 3.7 | 7.4 | 9.2 | 11.0 | 13.8 | 18.4 | 24.8 | 30.4 | 31.3 | 30.4 |
| 92.5° | 13.8 | 19.3 | 26.7 | 31.3 | 38.7 | 48.8 | 73.6 | 108.6 | 139.9 | 141.7 | 118.7 |
| 95° | 32.2 | 35.9 | 45.1 | 53.4 | 68.1 | 90.2 | 132.5 | 212.6 | 319.3 | 360.7 | 315.6 |
| 97.5° | 47.9 | 53.4 | 63.5 | 75.5 | 92.0 | 116.9 | 171.2 | 282.5 | 454.6 | 588.0 | 592.6 |
| 100° | 70.9 | 73.6 | 81.9 | 96.6 | 115.0 | 140.8 | 189.6 | 301.8 | 500.6 | 727.0 | 859.5 |
| 102.5° | 92.0 | 93.9 | 102.1 | 116.9 | 136.2 | 162.0 | 206.1 | 302.8 | 483.1 | 731.6 | 958.9 |
| 105° | 112.3 | 116.0 | 122.4 | 136.2 | 156.4 | 182.2 | 225.5 | 307.4 | 459.2 | 681.9 | 926.7 |
| 107.5° | 134.4 | 137.1 | 143.6 | 156.4 | 176.7 | 202.5 | 244.8 | 317.5 | 446.3 | 635.9 | 858.6 |
| 110° | 156.4 | 160.1 | 165.6 | 177.6 | 196.9 | 223.6 | 264.1 | 330.4 | 442.6 | 604.6 | 795.1 |



TEST NUMBER: P334459

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 176.7 | 180.4 | 186.8 | 197.9 | 216.3 | 243.9 | 282.5 | 344.2 | 443.6 | 584.4 | 750.9 |
| 115° | 197.9 | 202.5 | 208.0 | 219.0 | 237.4 | 262.3 | 301.8 | 358.0 | 447.2 | 570.6 | 716.0 |
| 117.5° | 219.9 | 223.6 | 229.1 | 239.3 | 256.8 | 282.5 | 319.3 | 372.7 | 452.8 | 563.2 | 692.0 |
| 120° | 240.2 | 243.9 | 249.4 | 257.7 | 276.1 | 301.8 | 337.7 | 387.4 | 458.3 | 556.8 | 673.6 |
| 122.5° | 259.5 | 262.3 | 267.8 | 277.0 | 295.4 | 322.1 | 355.2 | 400.3 | 464.7 | 553.1 | 658.0 |
| 125° | 276.1 | 278.8 | 284.4 | 295.4 | 313.8 | 339.6 | 372.7 | 414.1 | 471.2 | 548.5 | 643.3 |
| 127.5° | 289.9 | 293.6 | 300.9 | 312.9 | 330.4 | 357.1 | 389.3 | 427.0 | 477.6 | 545.7 | 629.5 |
| 130° | 301.8 | 305.5 | 314.7 | 327.6 | 346.0 | 371.8 | 404.0 | 439.0 | 485.0 | 543.9 | 615.7 |
| 132.5° | 312.9 | 317.5 | 327.6 | 341.4 | 360.7 | 386.5 | 416.9 | 450.9 | 492.3 | 543.0 | 604.6 |
| 135° | 323.9 | 327.6 | 338.7 | 352.5 | 373.6 | 399.4 | 428.8 | 461.0 | 497.9 | 542.0 | 594.5 |
| 137.5° | 334.1 | 338.7 | 349.7 | 364.4 | 385.6 | 409.5 | 439.0 | 469.3 | 503.4 | 542.0 | 587.1 |
| 140° | 346.0 | 349.7 | 360.7 | 375.5 | 395.7 | 419.6 | 447.2 | 475.8 | 507.1 | 541.1 | 580.7 |
| 142.5° | 358.0 | 360.7 | 370.9 | 385.6 | 404.9 | 427.0 | 453.7 | 481.3 | 509.8 | 541.1 | 574.2 |
| 145° | 369.9 | 373.6 | 382.8 | 396.6 | 415.0 | 435.3 | 460.1 | 485.9 | 511.7 | 539.3 | 568.7 |
| 147.5° | 382.8 | 385.6 | 394.8 | 407.7 | 423.3 | 441.7 | 465.6 | 488.7 | 512.6 | 536.5 | 563.2 |
| 150° | 395.7 | 398.5 | 405.8 | 417.8 | 431.6 | 448.2 | 469.3 | 490.5 | 511.7 | 533.7 | 555.8 |
| 152.5° | 408.6 | 409.5 | 416.9 | 427.0 | 439.9 | 454.6 | 473.0 | 491.4 | 509.8 | 529.1 | 549.4 |
| 155° | 420.6 | 421.5 | 427.0 | 437.1 | 447.2 | 461.0 | 476.7 | 492.3 | 508.0 | 523.6 | 541.1 |
| 157.5° | 430.7 | 431.6 | 436.2 | 445.4 | 453.7 | 465.6 | 479.5 | 492.3 | 504.3 | 518.1 | 533.7 |
| 160° | 440.8 | 441.7 | 445.4 | 452.8 | 460.1 | 470.3 | 481.3 | 492.3 | 501.5 | 512.6 | 525.5 |
| 162.5° | 450.9 | 450.0 | 453.7 | 459.2 | 465.6 | 473.0 | 482.2 | 491.4 | 498.8 | 508.0 | 518.1 |
| 165° | 458.3 | 457.4 | 459.2 | 464.7 | 469.3 | 474.9 | 483.1 | 489.6 | 495.1 | 501.5 | 509.8 |
| 167.5° | 464.7 | 463.8 | 465.6 | 469.3 | 473.0 | 476.7 | 483.1 | 488.7 | 491.4 | 496.0 | 501.5 |
| 170° | 471.2 | 469.3 | 470.3 | 473.0 | 474.9 | 477.6 | 482.2 | 486.8 | 488.7 | 491.4 | 495.1 |
| 172.5° | 474.9 | 473.9 | 473.0 | 475.8 | 476.7 | 478.5 | 481.3 | 484.1 | 485.0 | 485.9 | 488.7 |
| 175° | 477.6 | 476.7 | 475.8 | 477.6 | 477.6 | 478.5 | 480.4 | 482.2 | 481.3 | 482.2 | 483.1 |
| 177.5° | 479.5 | 477.6 | 476.7 | 478.5 | 478.5 | 478.5 | 479.5 | 481.3 | 479.5 | 478.5 | 479.5 |
| 180° | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 |



TEST NUMBER: P334459

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 29.4 | 27.6 | 29.4 | 30.4 | 30.4 | 30.4 | 30.4 | 30.4 |
| 92.5° | 92.9 | 79.1 | 69.0 | 61.7 | 60.7 | 57.1 | 58.0 | 56.1 |
| 95° | 241.1 | 185.0 | 146.3 | 126.1 | 114.1 | 106.7 | 104.0 | 104.9 |
| 97.5° | 493.3 | 393.9 | 300.9 | 245.7 | 209.8 | 191.4 | 181.3 | 175.8 |
| 100° | 840.2 | 726.1 | 600.0 | 488.7 | 412.3 | 372.7 | 346.0 | 329.5 |
| 102.5° | 1067.5 | 1063.8 | 980.1 | 860.4 | 775.8 | 701.2 | 666.3 | 642.3 |
| 105° | 1118.1 | 1222.1 | 1234.1 | 1203.7 | 1146.6 | 1089.6 | 1050.0 | 1037.1 |
| 107.5° | 1063.8 | 1218.4 | 1308.6 | 1345.4 | 1344.5 | 1336.2 | 1324.2 | 1303.1 |
| 110° | 989.3 | 1154.0 | 1271.8 | 1347.3 | 1386.8 | 1404.3 | 1412.6 | 1411.7 |



TEST NUMBER: P334459

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 921.2 | 1077.6 | 1205.5 | 1294.8 | 1353.7 | 1385.9 | 1403.4 | 1409.8 |
| 115° | 867.8 | 1009.5 | 1130.1 | 1224.9 | 1290.2 | 1332.5 | 1356.5 | 1364.7 |
| 117.5° | 823.6 | 950.6 | 1062.9 | 1153.1 | 1220.3 | 1265.4 | 1290.2 | 1296.6 |
| 120° | 792.3 | 906.5 | 1004.0 | 1087.7 | 1152.2 | 1195.4 | 1222.1 | 1231.3 |
| 122.5° | 767.5 | 869.6 | 960.7 | 1034.4 | 1090.5 | 1132.8 | 1155.8 | 1163.2 |
| 125° | 743.6 | 838.4 | 919.3 | 988.4 | 1041.7 | 1076.7 | 1099.7 | 1107.1 |
| 127.5° | 719.6 | 807.1 | 884.4 | 948.8 | 995.7 | 1028.8 | 1049.1 | 1054.6 |
| 130° | 696.6 | 775.8 | 848.5 | 909.2 | 954.3 | 985.6 | 1004.0 | 1011.4 |
| 132.5° | 674.5 | 746.3 | 811.7 | 867.8 | 912.0 | 943.3 | 959.8 | 966.3 |
| 135° | 654.3 | 715.0 | 775.8 | 827.3 | 866.9 | 897.2 | 913.8 | 917.5 |
| 137.5° | 637.7 | 690.2 | 739.9 | 785.9 | 823.6 | 850.3 | 865.0 | 870.6 |
| 140° | 622.1 | 666.3 | 708.6 | 749.1 | 778.5 | 802.5 | 816.3 | 821.8 |
| 142.5° | 609.2 | 645.1 | 680.1 | 712.3 | 739.9 | 761.1 | 773.0 | 773.0 |
| 145° | 597.2 | 627.6 | 656.1 | 682.8 | 704.9 | 720.6 | 729.8 | 732.5 |
| 147.5° | 588.0 | 612.9 | 635.9 | 656.1 | 675.5 | 688.4 | 694.8 | 696.6 |
| 150° | 577.9 | 598.2 | 617.5 | 634.1 | 647.9 | 658.9 | 664.4 | 665.3 |
| 152.5° | 567.8 | 586.2 | 601.8 | 615.7 | 625.8 | 635.0 | 638.7 | 638.7 |
| 155° | 558.6 | 573.3 | 587.1 | 597.2 | 607.4 | 613.8 | 617.5 | 615.7 |
| 157.5° | 547.6 | 560.4 | 572.4 | 580.7 | 588.0 | 593.6 | 595.4 | 595.4 |
| 160° | 537.4 | 547.6 | 557.7 | 564.1 | 570.6 | 575.2 | 576.1 | 576.1 |
| 162.5° | 527.3 | 535.6 | 543.9 | 548.5 | 554.9 | 557.7 | 558.6 | 557.7 |
| 165° | 517.2 | 523.6 | 530.1 | 533.7 | 537.4 | 541.1 | 541.1 | 540.2 |
| 167.5° | 507.1 | 512.6 | 517.2 | 520.9 | 522.7 | 524.5 | 524.5 | 523.6 |
| 170° | 499.7 | 502.5 | 506.1 | 508.0 | 508.9 | 511.7 | 510.7 | 508.9 |
| 172.5° | 491.4 | 493.3 | 496.0 | 496.9 | 497.9 | 498.8 | 497.9 | 496.9 |
| 175° | 485.9 | 486.8 | 487.7 | 488.7 | 488.7 | 489.6 | 488.7 | 486.8 |
| 177.5° | 481.3 | 481.3 | 482.2 | 482.2 | 482.2 | 482.2 | 481.3 | 479.5 |
| 180° | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 |

(END OF REPORT)