

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: P334456

Luminaire Tested: **S122IP-S530U927-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334456
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-S530U927-4F0-1E-UDD-4
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 530 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

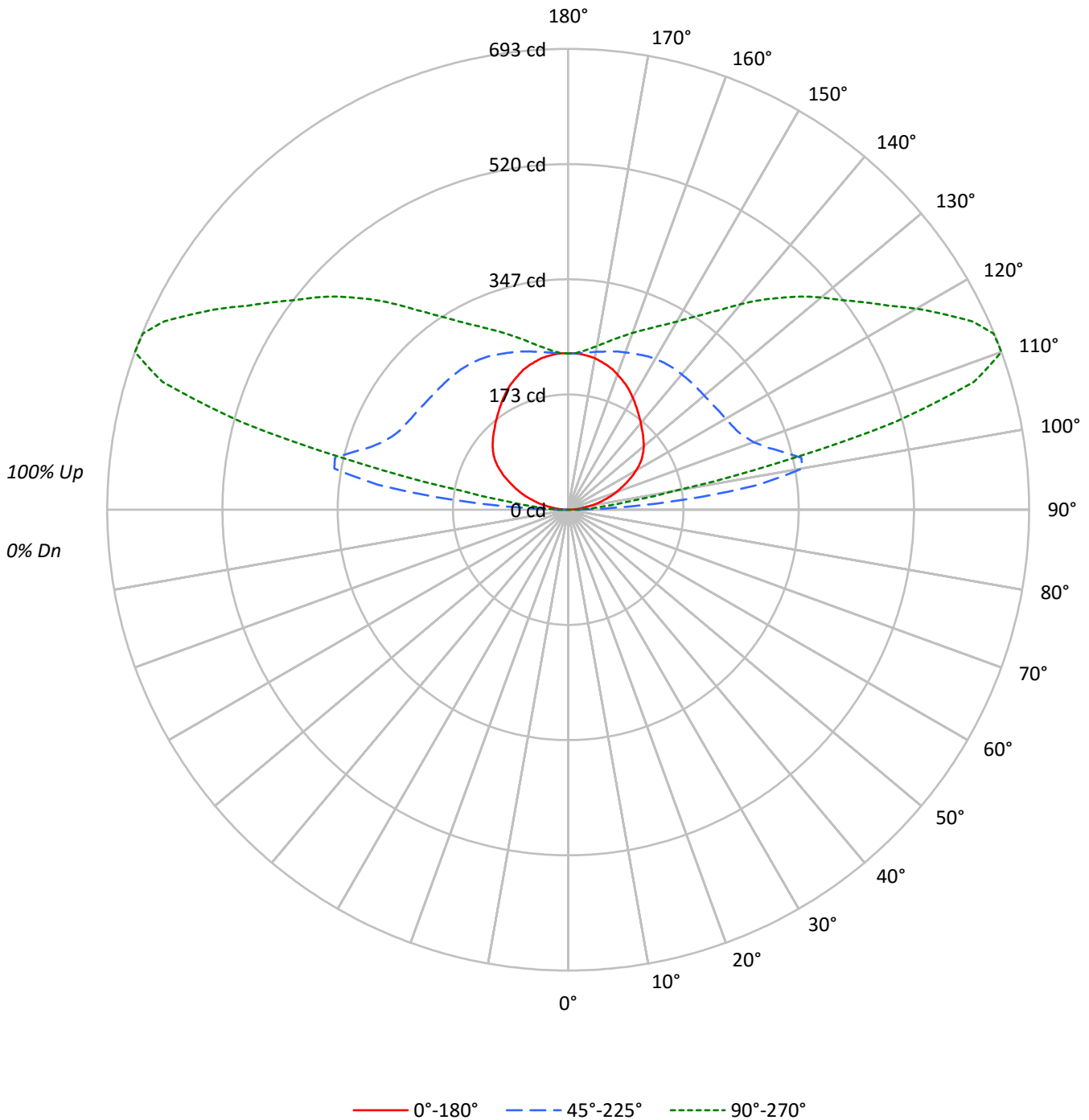
Lumens per Lamp: N/A
Luminaire Lumens: 1637.5 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 18.8
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: P334456
CATALOG NUMBER: S122IP-S530U927-4F0-1E-UDD-4

Luminous Intensity Polar Plot





TEST NUMBER: P334456

CATALOG NUMBER: S122IP-S530U927-4F0-1E-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: P334456

CATALOG NUMBER: S122IP-S530U927-4F0-1E-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° | 1.5 | 0.1 |
| 90°-100° | 91.6 | 5.6 |
| 100°-110° | 322.5 | 19.7 |
| 110°-120° | 338.7 | 20.7 |
| 120°-130° | 278.7 | 17.0 |
| 130°-140° | 223.9 | 13.7 |
| 140°-150° | 169.1 | 10.3 |
| 150°-160° | 118.9 | 7.3 |
| 160°-170° | 70.0 | 4.3 |
| 170°-180° | 22.8 | 1.4 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 1.5 | 0.1 |
| 90°-120° | 752.8 | 46.0 |
| 90°-150° | 1424.4 | 87.0 |
| 90°-180° | 1636.0 | 99.9 |
| 0°-180° | 1637.5 | 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° | 0 | 6 | 15 | 15 | 15 | 1 |
| 95° | 16 | 39 | 177 | 67 | 52 | 16 |
| 105° | 55 | 83 | 335 | 598 | 509 | 59 |
| 115° | 97 | 123 | 280 | 578 | 670 | 96 |
| 125° | 136 | 160 | 269 | 468 | 544 | 120 |
| 135° | 159 | 190 | 266 | 393 | 450 | 123 |
| 145° | 182 | 209 | 265 | 329 | 360 | 114 |
| 155° | 206 | 223 | 257 | 291 | 302 | 95 |
| 165° | 225 | 232 | 246 | 261 | 265 | 63 |
| 175° | 234 | 235 | 237 | 240 | 239 | 22 |
| 180° | 235 | 235 | 235 | 235 | 235 | |



TEST NUMBER: P334456

CATALOG NUMBER: S122IP-S530U927-4F0-1E-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° | 0.5 | 1.8 | 3.6 | 4.5 | 5.4 | 6.8 | 9.0 | 12.2 | 14.9 | 15.4 | 14.9 |
| 92.5° | 6.8 | 9.5 | 13.1 | 15.4 | 19.0 | 23.9 | 36.1 | 53.3 | 68.7 | 69.6 | 58.3 |
| 95° | 15.8 | 17.6 | 22.1 | 26.2 | 33.4 | 44.3 | 65.1 | 104.4 | 156.8 | 177.1 | 155.0 |
| 97.5° | 23.5 | 26.2 | 31.2 | 37.0 | 45.2 | 57.4 | 84.0 | 138.7 | 223.2 | 288.7 | 290.9 |
| 100° | 34.8 | 36.1 | 40.2 | 47.4 | 56.5 | 69.1 | 93.1 | 148.2 | 245.8 | 356.9 | 422.0 |
| 102.5° | 45.2 | 46.1 | 50.1 | 57.4 | 66.9 | 79.5 | 101.2 | 148.6 | 237.2 | 359.2 | 470.7 |
| 105° | 55.1 | 56.9 | 60.1 | 66.9 | 76.8 | 89.5 | 110.7 | 150.9 | 225.4 | 334.8 | 454.9 |
| 107.5° | 66.0 | 67.3 | 70.5 | 76.8 | 86.7 | 99.4 | 120.2 | 155.9 | 219.1 | 312.2 | 421.5 |
| 110° | 76.8 | 78.6 | 81.3 | 87.2 | 96.7 | 109.8 | 129.7 | 162.2 | 217.3 | 296.8 | 390.3 |



TEST NUMBER: P334456

CATALOG NUMBER: S122IP-S530U927-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 86.7 | 88.5 | 91.7 | 97.1 | 106.2 | 119.7 | 138.7 | 169.0 | 217.8 | 286.9 | 368.6 |
| 115° | 97.1 | 99.4 | 102.1 | 107.5 | 116.6 | 128.8 | 148.2 | 175.7 | 219.6 | 280.1 | 351.5 |
| 117.5° | 108.0 | 109.8 | 112.5 | 117.5 | 126.0 | 138.7 | 156.8 | 183.0 | 222.3 | 276.5 | 339.7 |
| 120° | 117.9 | 119.7 | 122.4 | 126.5 | 135.5 | 148.2 | 165.8 | 190.2 | 225.0 | 273.3 | 330.7 |
| 122.5° | 127.4 | 128.8 | 131.5 | 136.0 | 145.0 | 158.1 | 174.4 | 196.5 | 228.1 | 271.5 | 323.0 |
| 125° | 135.5 | 136.9 | 139.6 | 145.0 | 154.1 | 166.7 | 183.0 | 203.3 | 231.3 | 269.3 | 315.8 |
| 127.5° | 142.3 | 144.1 | 147.7 | 153.6 | 162.2 | 175.3 | 191.1 | 209.6 | 234.5 | 267.9 | 309.0 |
| 130° | 148.2 | 150.0 | 154.5 | 160.8 | 169.9 | 182.5 | 198.3 | 215.5 | 238.1 | 267.0 | 302.2 |
| 132.5° | 153.6 | 155.9 | 160.8 | 167.6 | 177.1 | 189.7 | 204.7 | 221.4 | 241.7 | 266.5 | 296.8 |
| 135° | 159.0 | 160.8 | 166.3 | 173.0 | 183.4 | 196.1 | 210.5 | 226.3 | 244.4 | 266.1 | 291.8 |
| 137.5° | 164.0 | 166.3 | 171.7 | 178.9 | 189.3 | 201.0 | 215.5 | 230.4 | 247.1 | 266.1 | 288.2 |
| 140° | 169.9 | 171.7 | 177.1 | 184.3 | 194.3 | 206.0 | 219.6 | 233.6 | 248.9 | 265.6 | 285.1 |
| 142.5° | 175.7 | 177.1 | 182.1 | 189.3 | 198.8 | 209.6 | 222.7 | 236.3 | 250.3 | 265.6 | 281.9 |
| 145° | 181.6 | 183.4 | 187.9 | 194.7 | 203.7 | 213.7 | 225.9 | 238.5 | 251.2 | 264.7 | 279.2 |
| 147.5° | 187.9 | 189.3 | 193.8 | 200.1 | 207.8 | 216.9 | 228.6 | 239.9 | 251.6 | 263.4 | 276.5 |
| 150° | 194.3 | 195.6 | 199.2 | 205.1 | 211.9 | 220.0 | 230.4 | 240.8 | 251.2 | 262.0 | 272.9 |
| 152.5° | 200.6 | 201.0 | 204.7 | 209.6 | 215.9 | 223.2 | 232.2 | 241.2 | 250.3 | 259.8 | 269.7 |
| 155° | 206.5 | 206.9 | 209.6 | 214.6 | 219.6 | 226.3 | 234.0 | 241.7 | 249.4 | 257.1 | 265.6 |
| 157.5° | 211.4 | 211.9 | 214.1 | 218.7 | 222.7 | 228.6 | 235.4 | 241.7 | 247.6 | 254.3 | 262.0 |
| 160° | 216.4 | 216.9 | 218.7 | 222.3 | 225.9 | 230.9 | 236.3 | 241.7 | 246.2 | 251.6 | 258.0 |
| 162.5° | 221.4 | 220.9 | 222.7 | 225.4 | 228.6 | 232.2 | 236.7 | 241.2 | 244.9 | 249.4 | 254.3 |
| 165° | 225.0 | 224.5 | 225.4 | 228.1 | 230.4 | 233.1 | 237.2 | 240.3 | 243.1 | 246.2 | 250.3 |
| 167.5° | 228.1 | 227.7 | 228.6 | 230.4 | 232.2 | 234.0 | 237.2 | 239.9 | 241.2 | 243.5 | 246.2 |
| 170° | 231.3 | 230.4 | 230.9 | 232.2 | 233.1 | 234.5 | 236.7 | 239.0 | 239.9 | 241.2 | 243.1 |
| 172.5° | 233.1 | 232.7 | 232.2 | 233.6 | 234.0 | 234.9 | 236.3 | 237.6 | 238.1 | 238.5 | 239.9 |
| 175° | 234.5 | 234.0 | 233.6 | 234.5 | 234.5 | 234.9 | 235.8 | 236.7 | 236.3 | 236.7 | 237.2 |
| 177.5° | 235.4 | 234.5 | 234.0 | 234.9 | 234.9 | 234.9 | 235.4 | 236.3 | 235.4 | 234.9 | 235.4 |
| 180° | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 |



TEST NUMBER: P334456

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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° | 14.5 | 13.6 | 14.5 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 |
| 92.5° | 45.6 | 38.9 | 33.9 | 30.3 | 29.8 | 28.0 | 28.5 | 27.6 |
| 95° | 118.4 | 90.8 | 71.8 | 61.9 | 56.0 | 52.4 | 51.1 | 51.5 |
| 97.5° | 242.1 | 193.4 | 147.7 | 120.6 | 103.0 | 94.0 | 89.0 | 86.3 |
| 100° | 412.5 | 356.4 | 294.6 | 239.9 | 202.4 | 183.0 | 169.9 | 161.7 |
| 102.5° | 524.1 | 522.2 | 481.1 | 422.4 | 380.8 | 344.3 | 327.1 | 315.3 |
| 105° | 548.9 | 600.0 | 605.8 | 590.9 | 562.9 | 534.9 | 515.5 | 509.1 |
| 107.5° | 522.2 | 598.1 | 642.4 | 660.5 | 660.0 | 656.0 | 650.1 | 639.7 |
| 110° | 485.7 | 566.5 | 624.3 | 661.4 | 680.8 | 689.4 | 693.5 | 693.0 |



TEST NUMBER: P334456

CATALOG NUMBER: S122IP-S530U927-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 452.2 | 529.0 | 591.8 | 635.6 | 664.6 | 680.4 | 689.0 | 692.1 |
| 115° | 426.0 | 495.6 | 554.8 | 601.3 | 633.4 | 654.2 | 665.9 | 670.0 |
| 117.5° | 404.3 | 466.7 | 521.8 | 566.1 | 599.0 | 621.2 | 633.4 | 636.5 |
| 120° | 389.0 | 445.0 | 492.9 | 534.0 | 565.6 | 586.9 | 600.0 | 604.5 |
| 122.5° | 376.8 | 426.9 | 471.6 | 507.8 | 535.3 | 556.1 | 567.4 | 571.0 |
| 125° | 365.0 | 411.6 | 451.3 | 485.2 | 511.4 | 528.6 | 539.9 | 543.5 |
| 127.5° | 353.3 | 396.2 | 434.2 | 465.8 | 488.8 | 505.1 | 515.0 | 517.7 |
| 130° | 342.0 | 380.8 | 416.5 | 446.4 | 468.5 | 483.8 | 492.9 | 496.5 |
| 132.5° | 331.1 | 366.4 | 398.5 | 426.0 | 447.7 | 463.1 | 471.2 | 474.4 |
| 135° | 321.2 | 351.0 | 380.8 | 406.1 | 425.6 | 440.5 | 448.6 | 450.4 |
| 137.5° | 313.1 | 338.8 | 363.2 | 385.8 | 404.3 | 417.4 | 424.7 | 427.4 |
| 140° | 305.4 | 327.1 | 347.9 | 367.7 | 382.2 | 393.9 | 400.7 | 403.4 |
| 142.5° | 299.1 | 316.7 | 333.9 | 349.7 | 363.2 | 373.6 | 379.5 | 379.5 |
| 145° | 293.2 | 308.1 | 322.1 | 335.2 | 346.1 | 353.7 | 358.3 | 359.6 |
| 147.5° | 288.7 | 300.9 | 312.2 | 322.1 | 331.6 | 337.9 | 341.1 | 342.0 |
| 150° | 283.7 | 293.7 | 303.1 | 311.3 | 318.0 | 323.5 | 326.2 | 326.6 |
| 152.5° | 278.7 | 287.8 | 295.5 | 302.2 | 307.2 | 311.7 | 313.5 | 313.5 |
| 155° | 274.2 | 281.5 | 288.2 | 293.2 | 298.2 | 301.3 | 303.1 | 302.2 |
| 157.5° | 268.8 | 275.1 | 281.0 | 285.1 | 288.7 | 291.4 | 292.3 | 292.3 |
| 160° | 263.8 | 268.8 | 273.8 | 276.9 | 280.1 | 282.4 | 282.8 | 282.8 |
| 162.5° | 258.9 | 262.9 | 267.0 | 269.3 | 272.4 | 273.8 | 274.2 | 273.8 |
| 165° | 253.9 | 257.1 | 260.2 | 262.0 | 263.8 | 265.6 | 265.6 | 265.2 |
| 167.5° | 248.9 | 251.6 | 253.9 | 255.7 | 256.6 | 257.5 | 257.5 | 257.1 |
| 170° | 245.3 | 246.7 | 248.5 | 249.4 | 249.8 | 251.2 | 250.7 | 249.8 |
| 172.5° | 241.2 | 242.1 | 243.5 | 244.0 | 244.4 | 244.9 | 244.4 | 244.0 |
| 175° | 238.5 | 239.0 | 239.4 | 239.9 | 239.9 | 240.3 | 239.9 | 239.0 |
| 177.5° | 236.3 | 236.3 | 236.7 | 236.7 | 236.7 | 236.7 | 236.3 | 235.4 |
| 180° | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 | 234.9 |

(END OF REPORT)