

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: P334966

Luminaire Tested: **S125IP-S590U830-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S590U830-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 590 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2004.1 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

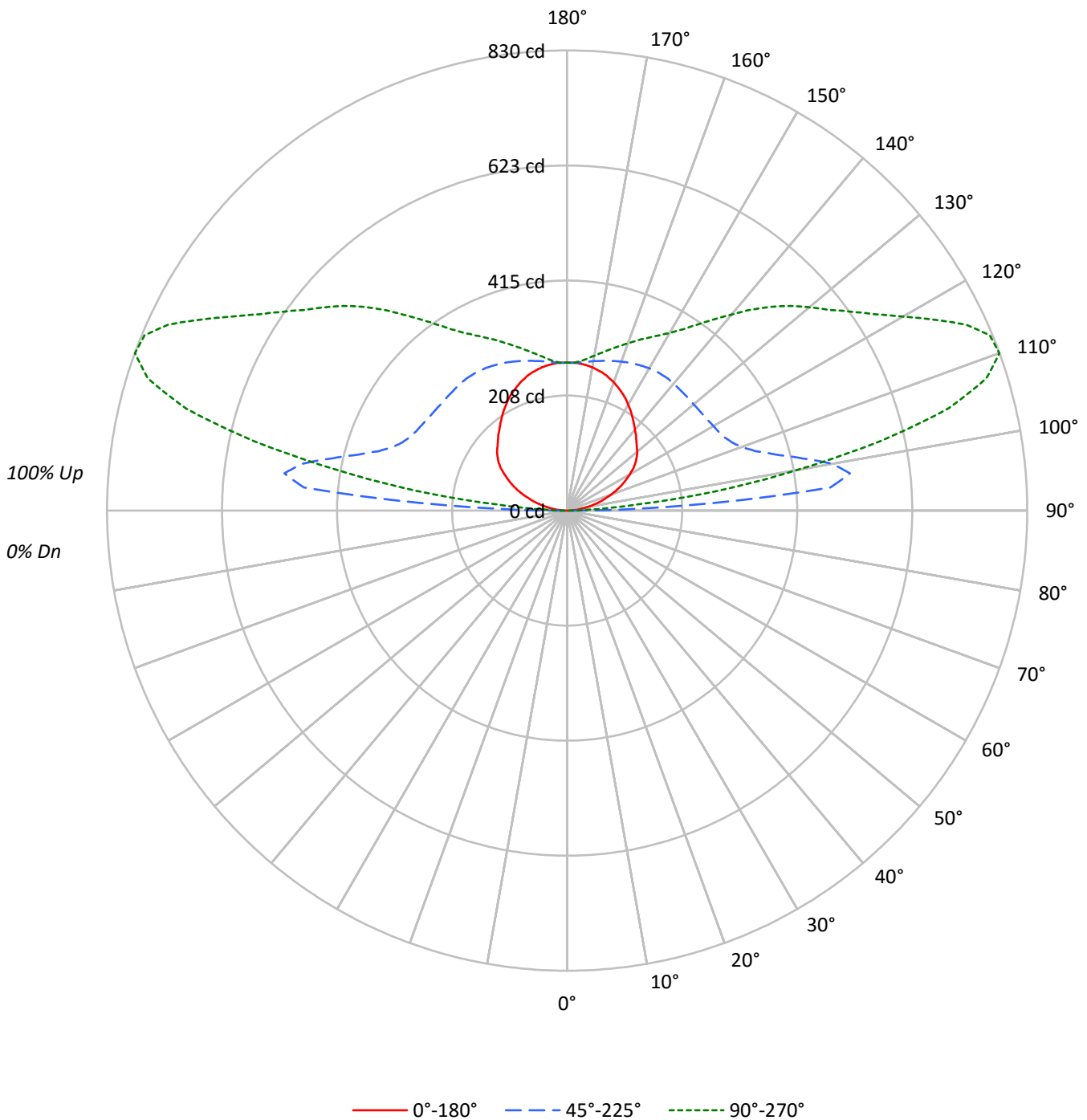
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334966

CATALOG NUMBER: S125IP-S590U830-4F0-1E-UDD-4

Luminous Intensity Polar Plot





TEST NUMBER: P334966

CATALOG NUMBER: S125IP-S590U830-4F0-1E-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: P334966

CATALOG NUMBER: S125IP-S590U830-4F0-1E-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° | 1.1 | 0.1 |
| 90°-100° | 194.0 | 9.7 |
| 100°-110° | 418.3 | 20.9 |
| 110°-120° | 390.0 | 19.5 |
| 120°-130° | 315.9 | 15.8 |
| 130°-140° | 253.6 | 12.7 |
| 140°-150° | 191.3 | 9.5 |
| 150°-160° | 134.7 | 6.7 |
| 160°-170° | 79.4 | 4.0 |
| 170°-180° | 25.8 | 1.3 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 1.1 | 0.1 |
| 90°-120° | 1002.3 | 50.0 |
| 90°-150° | 1763.1 | 88.0 |
| 90°-180° | 2003.0 | 99.9 |
| 0°-180° | 2004.1 | 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 | 5 | 9 | 11 | 12 | 1 |
| 95° | 18 | 52 | 476 | 216 | 126 | 18 |
| 105° | 61 | 85 | 390 | 768 | 712 | 64 |
| 115° | 109 | 131 | 313 | 674 | 794 | 107 |
| 125° | 150 | 176 | 300 | 537 | 625 | 134 |
| 135° | 176 | 212 | 298 | 450 | 519 | 137 |
| 145° | 205 | 235 | 299 | 372 | 410 | 129 |
| 155° | 234 | 252 | 291 | 329 | 344 | 108 |
| 165° | 256 | 263 | 280 | 297 | 301 | 72 |
| 175° | 266 | 266 | 268 | 272 | 270 | 25 |
| 180° | 267 | 267 | 267 | 267 | 267 | |



TEST NUMBER: P334966

CATALOG NUMBER: S125IP-S590U830-4F0-1E-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 | 1.1 | 2.2 | 3.2 | 4.3 | 5.4 | 5.9 | 7.0 | 7.5 | 8.6 | 9.1 |
| 92.5° | 8.1 | 9.7 | 15.1 | 23.1 | 34.4 | 53.8 | 90.3 | 151.6 | 218.3 | 214.5 | 173.1 |
| 95° | 17.7 | 18.3 | 22.6 | 28.5 | 40.3 | 64.5 | 122.0 | 240.3 | 388.7 | 476.4 | 466.1 |
| 97.5° | 27.4 | 28.0 | 31.2 | 37.1 | 47.9 | 65.6 | 105.4 | 196.2 | 356.5 | 514.5 | 582.3 |
| 100° | 37.6 | 38.7 | 40.9 | 46.8 | 57.0 | 73.1 | 104.3 | 174.2 | 309.7 | 485.5 | 619.9 |
| 102.5° | 48.9 | 49.5 | 51.1 | 57.5 | 66.7 | 82.3 | 109.1 | 165.1 | 274.2 | 434.4 | 597.3 |
| 105° | 60.8 | 60.8 | 63.4 | 68.8 | 77.4 | 92.5 | 116.1 | 164.0 | 253.8 | 389.8 | 544.1 |
| 107.5° | 72.0 | 73.1 | 75.8 | 80.1 | 89.3 | 102.7 | 125.8 | 167.7 | 243.0 | 356.5 | 493.6 |
| 110° | 84.4 | 85.5 | 87.6 | 92.5 | 100.5 | 114.5 | 136.6 | 173.7 | 238.7 | 334.4 | 451.6 |



TEST NUMBER: P334966

CATALOG NUMBER: S125IP-S590U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 96.8 | 97.9 | 99.5 | 104.3 | 112.4 | 125.8 | 146.8 | 181.2 | 238.7 | 321.5 | 420.4 |
| 115° | 108.6 | 109.7 | 111.3 | 116.1 | 124.2 | 137.6 | 157.5 | 188.7 | 240.3 | 312.9 | 399.5 |
| 117.5° | 119.4 | 121.0 | 122.6 | 127.4 | 136.6 | 149.5 | 168.3 | 197.3 | 243.0 | 308.1 | 385.5 |
| 120° | 130.1 | 131.7 | 133.9 | 138.7 | 147.9 | 161.3 | 180.1 | 205.9 | 247.3 | 304.8 | 374.2 |
| 122.5° | 141.4 | 142.5 | 144.1 | 148.9 | 159.1 | 172.6 | 191.4 | 215.6 | 251.1 | 302.2 | 364.5 |
| 125° | 150.5 | 151.6 | 154.3 | 159.1 | 169.4 | 183.3 | 201.1 | 224.2 | 255.4 | 300.0 | 355.9 |
| 127.5° | 158.1 | 159.7 | 162.9 | 168.8 | 179.6 | 193.6 | 210.8 | 232.3 | 260.2 | 298.9 | 347.9 |
| 130° | 165.1 | 166.7 | 171.0 | 178.0 | 189.3 | 203.2 | 219.9 | 240.3 | 264.5 | 297.9 | 339.8 |
| 132.5° | 170.4 | 172.6 | 178.0 | 186.0 | 197.9 | 211.8 | 228.5 | 247.3 | 269.4 | 297.9 | 333.3 |
| 135° | 176.4 | 178.5 | 185.0 | 193.6 | 204.8 | 219.4 | 236.0 | 253.8 | 273.7 | 297.9 | 328.5 |
| 137.5° | 183.9 | 185.5 | 191.4 | 200.0 | 211.3 | 226.4 | 241.4 | 258.6 | 278.0 | 298.4 | 323.7 |
| 140° | 190.3 | 191.9 | 198.4 | 207.0 | 217.2 | 231.7 | 247.3 | 263.4 | 280.7 | 298.9 | 320.4 |
| 142.5° | 197.9 | 198.9 | 204.8 | 213.4 | 223.1 | 236.6 | 251.1 | 266.1 | 282.3 | 299.5 | 317.8 |
| 145° | 205.4 | 206.5 | 211.8 | 219.4 | 229.0 | 241.4 | 255.4 | 268.8 | 283.3 | 298.9 | 315.1 |
| 147.5° | 213.4 | 214.0 | 218.8 | 225.8 | 234.4 | 245.7 | 258.1 | 270.4 | 283.9 | 297.9 | 312.4 |
| 150° | 220.4 | 221.5 | 225.3 | 232.3 | 239.8 | 248.9 | 260.8 | 272.1 | 283.9 | 296.2 | 309.2 |
| 152.5° | 228.0 | 228.5 | 231.7 | 237.6 | 244.6 | 252.7 | 263.4 | 273.1 | 283.3 | 294.1 | 305.4 |
| 155° | 234.4 | 234.4 | 237.6 | 243.0 | 248.4 | 255.9 | 265.1 | 273.7 | 282.3 | 291.4 | 301.1 |
| 157.5° | 240.3 | 240.3 | 243.0 | 247.9 | 252.7 | 258.6 | 266.7 | 274.2 | 281.2 | 288.7 | 297.3 |
| 160° | 246.2 | 245.7 | 247.9 | 251.6 | 255.9 | 260.8 | 267.8 | 274.2 | 279.6 | 286.0 | 292.5 |
| 162.5° | 251.1 | 250.5 | 252.7 | 255.9 | 259.1 | 262.9 | 268.8 | 273.7 | 278.0 | 282.8 | 288.2 |
| 165° | 255.9 | 254.8 | 256.5 | 259.1 | 261.3 | 264.5 | 268.8 | 273.1 | 276.4 | 279.6 | 283.9 |
| 167.5° | 259.1 | 258.6 | 259.7 | 261.3 | 262.9 | 265.1 | 268.8 | 272.1 | 273.7 | 276.4 | 279.6 |
| 170° | 262.4 | 261.8 | 262.4 | 263.4 | 264.5 | 266.1 | 268.8 | 271.0 | 272.1 | 273.7 | 275.8 |
| 172.5° | 264.5 | 263.4 | 264.0 | 265.1 | 265.6 | 266.1 | 268.3 | 269.9 | 269.9 | 270.4 | 272.1 |
| 175° | 266.1 | 265.1 | 265.6 | 266.1 | 266.1 | 266.1 | 267.8 | 268.8 | 268.3 | 268.3 | 268.8 |
| 177.5° | 267.2 | 266.1 | 266.1 | 266.7 | 266.1 | 266.1 | 267.2 | 267.8 | 266.7 | 266.7 | 267.2 |
| 180° | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 |



TEST NUMBER: P334966

CATALOG NUMBER: S125IP-S590U830-4F0-1E-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° | 9.7 | 10.2 | 10.8 | 11.8 | 11.8 | 11.8 | 12.4 | 12.4 |
| 92.5° | 116.7 | 83.9 | 62.4 | 52.2 | 43.5 | 41.9 | 40.9 | 39.8 |
| 95° | 386.6 | 304.8 | 238.7 | 193.6 | 155.4 | 139.3 | 135.0 | 126.3 |
| 97.5° | 554.3 | 489.3 | 422.6 | 358.1 | 325.8 | 297.9 | 283.3 | 276.9 |
| 100° | 661.3 | 635.0 | 579.6 | 523.7 | 486.6 | 447.9 | 428.0 | 419.4 |
| 102.5° | 697.3 | 724.2 | 704.9 | 671.5 | 631.2 | 606.5 | 584.4 | 578.5 |
| 105° | 673.1 | 746.8 | 770.5 | 764.5 | 747.3 | 729.6 | 718.8 | 712.4 |
| 107.5° | 623.7 | 721.0 | 778.0 | 801.6 | 806.5 | 803.8 | 798.4 | 793.0 |
| 110° | 567.8 | 669.9 | 745.7 | 791.4 | 815.6 | 825.8 | 829.6 | 829.6 |



TEST NUMBER: P334966

CATALOG NUMBER: S125IP-S590U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 523.7 | 619.4 | 696.3 | 752.2 | 790.3 | 809.7 | 820.5 | 825.3 |
| 115° | 488.2 | 571.5 | 645.2 | 703.8 | 745.7 | 771.5 | 786.6 | 793.6 |
| 117.5° | 463.5 | 537.1 | 601.6 | 657.0 | 699.5 | 726.4 | 741.4 | 745.7 |
| 120° | 444.1 | 508.6 | 567.8 | 615.1 | 654.9 | 680.7 | 695.2 | 699.5 |
| 122.5° | 429.6 | 488.2 | 539.3 | 582.8 | 617.2 | 640.3 | 654.9 | 658.6 |
| 125° | 415.6 | 470.4 | 517.2 | 555.9 | 586.0 | 608.1 | 619.9 | 625.3 |
| 127.5° | 401.1 | 453.2 | 497.3 | 533.9 | 561.3 | 581.2 | 592.5 | 594.6 |
| 130° | 387.6 | 435.0 | 476.9 | 511.8 | 538.7 | 556.5 | 567.2 | 570.4 |
| 132.5° | 374.2 | 417.8 | 454.9 | 488.2 | 515.1 | 532.8 | 542.5 | 546.3 |
| 135° | 362.9 | 400.0 | 434.4 | 465.1 | 488.7 | 506.5 | 516.1 | 519.4 |
| 137.5° | 352.7 | 383.9 | 413.5 | 440.3 | 461.8 | 478.5 | 487.7 | 491.4 |
| 140° | 344.6 | 369.9 | 394.6 | 417.2 | 437.1 | 451.1 | 459.2 | 461.8 |
| 142.5° | 337.6 | 358.1 | 378.5 | 397.3 | 413.5 | 424.7 | 432.3 | 434.4 |
| 145° | 331.7 | 348.4 | 365.1 | 379.6 | 392.5 | 401.6 | 407.5 | 409.7 |
| 147.5° | 325.8 | 339.8 | 353.2 | 364.5 | 375.3 | 382.8 | 386.6 | 387.6 |
| 150° | 321.0 | 332.8 | 343.0 | 352.7 | 360.8 | 367.2 | 369.4 | 369.9 |
| 152.5° | 315.6 | 325.8 | 335.0 | 341.9 | 348.4 | 353.2 | 355.4 | 355.9 |
| 155° | 310.2 | 318.8 | 326.4 | 332.3 | 337.6 | 341.4 | 343.0 | 343.6 |
| 157.5° | 304.8 | 312.4 | 318.3 | 323.1 | 327.4 | 330.7 | 332.3 | 332.3 |
| 160° | 299.5 | 304.8 | 310.2 | 314.0 | 317.8 | 320.4 | 321.5 | 321.0 |
| 162.5° | 293.6 | 298.4 | 302.7 | 305.9 | 308.6 | 310.8 | 310.8 | 310.8 |
| 165° | 288.2 | 291.9 | 295.2 | 297.9 | 300.0 | 301.1 | 301.1 | 301.1 |
| 167.5° | 282.8 | 285.5 | 288.2 | 290.3 | 291.4 | 292.5 | 291.9 | 291.9 |
| 170° | 278.5 | 280.1 | 281.7 | 282.8 | 283.9 | 284.4 | 284.4 | 283.9 |
| 172.5° | 273.7 | 275.3 | 276.4 | 276.9 | 276.9 | 278.0 | 276.9 | 276.4 |
| 175° | 270.4 | 270.4 | 271.5 | 271.5 | 271.5 | 272.1 | 271.0 | 270.4 |
| 177.5° | 267.8 | 268.3 | 268.3 | 268.3 | 267.8 | 268.3 | 266.7 | 266.7 |
| 180° | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 | 266.7 |

(END OF REPORT)