

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: INVUE

Report Number: P173549

Luminaire Tested: **ENT-EXX-LED-E1-SLL-8030-ULG-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173549
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-EXX-LED-E1-SLL-8030-ULG-CWB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1432.7 lumens
Efficiency: N/A
Efficacy: 260.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U3 - G1

Input Watts (W): 5.5
Input Voltage (V): NR
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

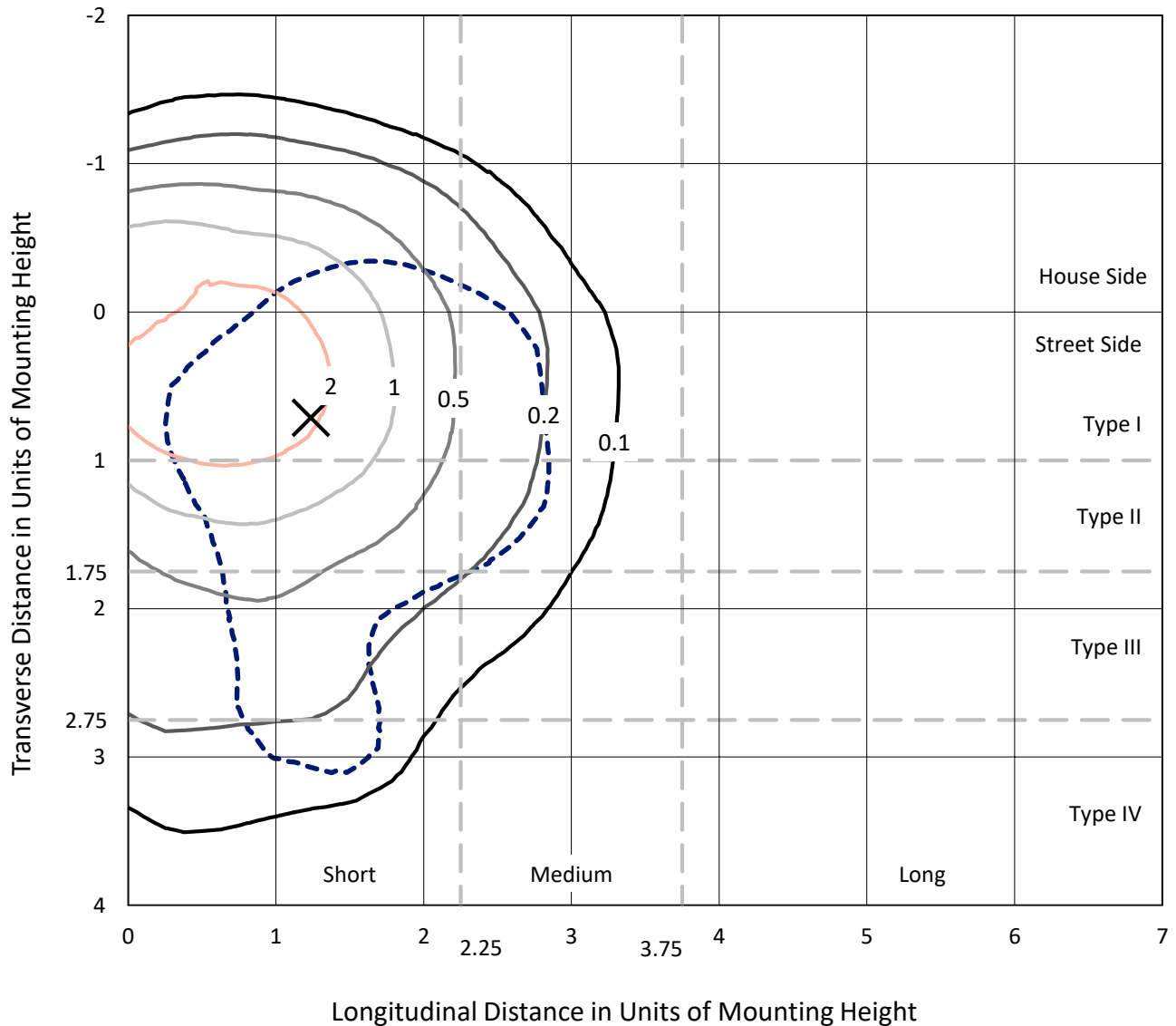


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

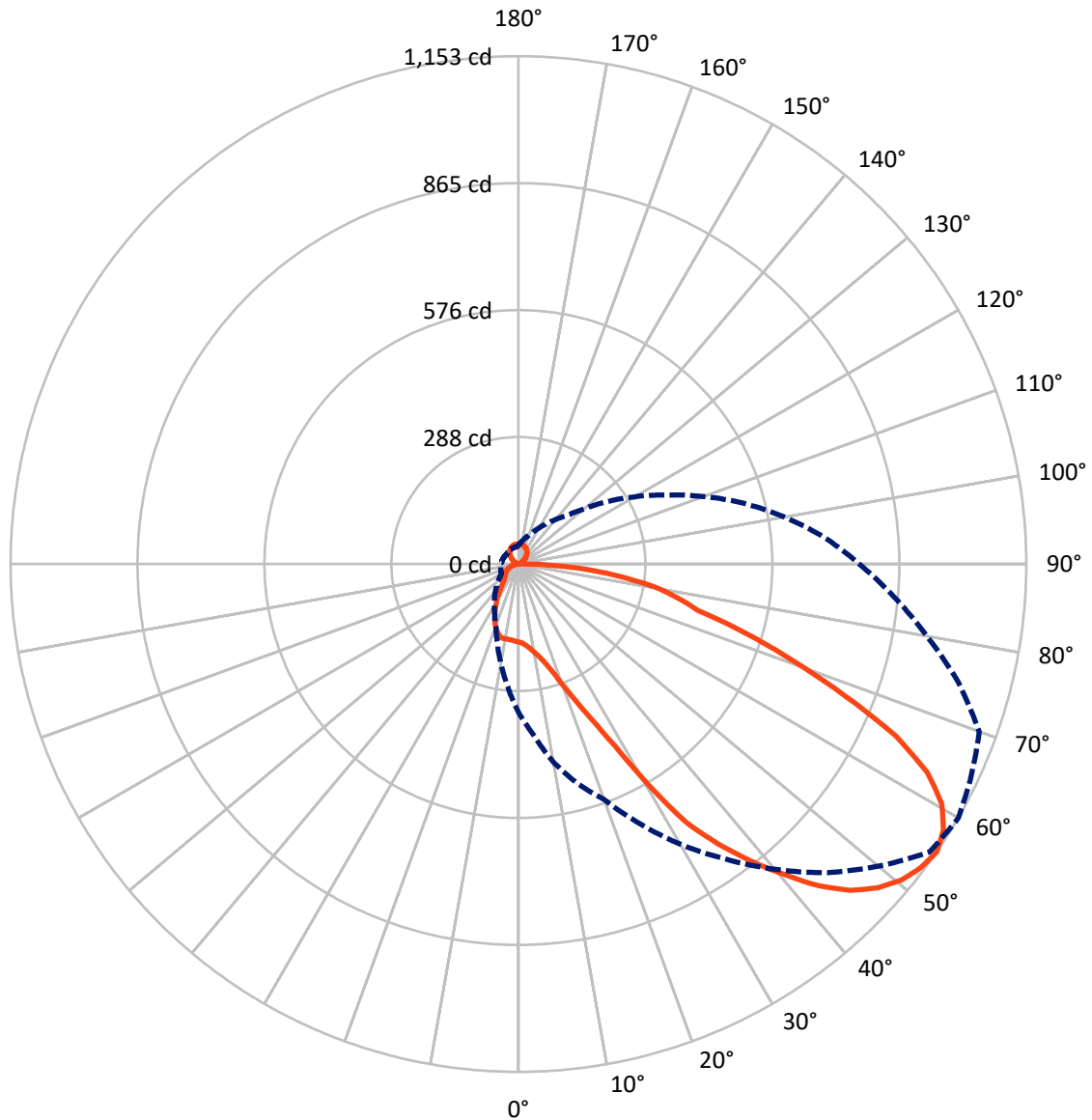


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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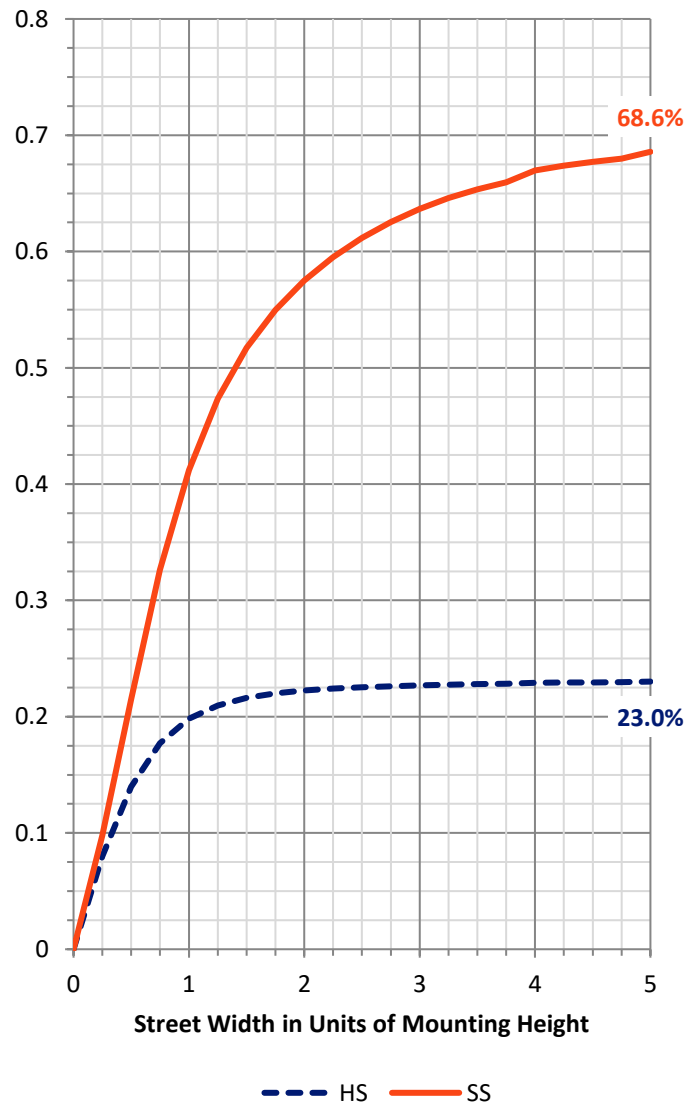
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 332.6 | 51.1 | 383.6 |
| | % Fixture | 23.2 | 3.6 | 26.8 |
| Street Side | Lumens | 998.0 | 51.1 | 1049.0 |
| | % Fixture | 69.7 | 3.6 | 73.2 |
| Total | Lumens | 1330.5 | 102.1 | 1432.7 |
| | % Fixture | 92.9 | 7.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.5 | 1.2 |
| 10°-20° | 57.4 | 4.0 |
| 20°-30° | 111.4 | 7.8 |
| 30°-40° | 175.1 | 12.2 |
| 40°-50° | 234.1 | 16.3 |
| 50°-60° | 274.6 | 19.2 |
| 60°-70° | 260.5 | 18.2 |
| 70°-80° | 157.3 | 11.0 |
| 80°-90° | 42.6 | 3.0 |
| 90°-100° | 0.4 | 0.0 |
| 100°-110° | 4.0 | 0.3 |
| 110°-120° | 8.2 | 0.6 |
| 120°-130° | 13.9 | 1.0 |
| 130°-140° | 19.4 | 1.4 |
| 140°-150° | 21.2 | 1.5 |
| 150°-160° | 18.4 | 1.3 |
| 160°-170° | 12.4 | 0.9 |
| 170°-180° | 4.3 | 0.3 |
| 0°-90° | 1330.5 | 92.9 |
| 0°-180° | 1432.7 | 100.0 |



REPORT NUMBER: P173549

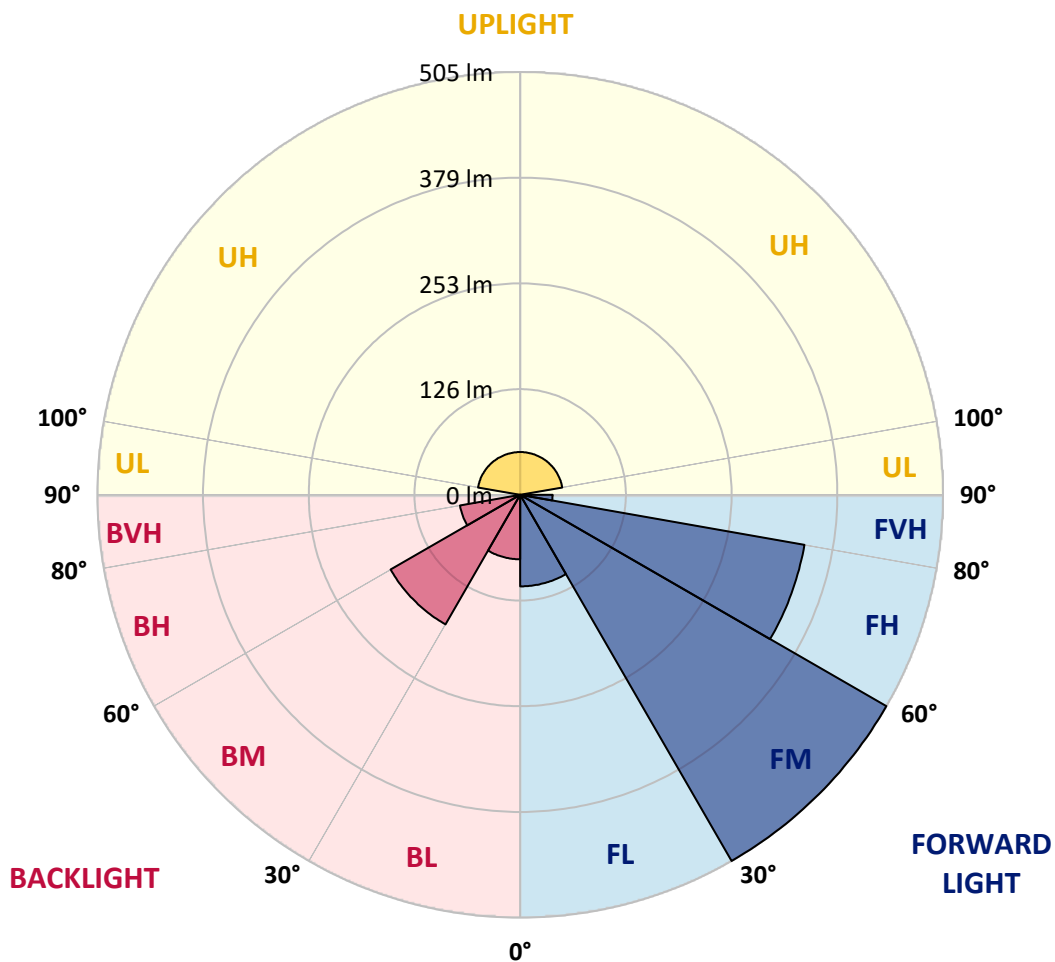
CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 109.3 | 7.6 | | | |
| FM | (30°-60°) | 505.1 | 35.3 | | | |
| FH | (60°-80°) | 344.8 | 24.1 | | | G0/660 |
| FVH | (80°-90°) | 38.7 | 2.7 | | | G1/100 |
| BL | (0°-30°) | 77.0 | 5.4 | B0/110 | | |
| BM | (30°-60°) | 178.7 | 12.5 | B0/220 | | |
| BH | (60°-80°) | 73.0 | 5.1 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.9 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 0.4 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 51.1 | 3.6 | | U3/500 | |

BUG Rating: B0-U3-G1

Type IV Short





REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0° | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 |
| 2.5° | 181.2 | 180.9 | 181.2 | 180.9 | 180.9 | 180.9 | 181.2 | 180.9 | 180.1 | 180.1 | 180.3 |
| 5° | 185.5 | 185.5 | 185.5 | 185.8 | 185.8 | 186.1 | 186.6 | 186.1 | 185.8 | 187.2 | 186.1 |
| 7.5° | 190.7 | 190.7 | 191.5 | 191.8 | 192.6 | 192.6 | 193.7 | 193.4 | 194.5 | 195.4 | 194.5 |
| 10° | 198.7 | 197.8 | 199.8 | 199.8 | 201.9 | 202.2 | 203.3 | 203.6 | 205.5 | 207.1 | 205.8 |
| 12.5° | 210.1 | 210.7 | 213.9 | 214.5 | 217.2 | 217.2 | 217.2 | 218.3 | 219.7 | 220.8 | 219.4 |
| 15° | 230.6 | 231.7 | 236.1 | 236.4 | 241.0 | 239.1 | 241.3 | 241.6 | 241.3 | 242.1 | 240.2 |
| 17.5° | 257.1 | 260.1 | 266.4 | 267.8 | 270.0 | 273.8 | 273.8 | 273.3 | 274.6 | 275.4 | 270.2 |
| 20° | 289.6 | 294.9 | 301.9 | 304.7 | 310.7 | 317.3 | 317.0 | 315.9 | 316.2 | 314.0 | 308.2 |
| 22.5° | 326.3 | 338.0 | 349.8 | 354.1 | 358.5 | 366.7 | 371.9 | 370.3 | 371.6 | 366.7 | 361.5 |
| 25° | 368.1 | 387.2 | 405.0 | 411.5 | 427.4 | 441.8 | 444.0 | 442.9 | 436.9 | 432.3 | 427.1 |
| 27.5° | 393.8 | 418.9 | 443.2 | 459.9 | 486.9 | 510.2 | 514.8 | 522.5 | 524.4 | 528.2 | 515.6 |
| 30° | 399.2 | 430.6 | 461.0 | 486.4 | 518.9 | 546.5 | 577.1 | 599.8 | 615.1 | 627.1 | 618.9 |
| 32.5° | 403.1 | 438.6 | 472.2 | 504.2 | 530.9 | 571.1 | 609.6 | 643.3 | 688.1 | 704.4 | 720.0 |
| 35° | 404.2 | 444.8 | 482.8 | 518.9 | 553.6 | 593.5 | 634.8 | 671.6 | 732.3 | 780.9 | 814.3 |
| 37.5° | 402.5 | 449.5 | 494.0 | 538.0 | 579.3 | 623.3 | 666.7 | 702.8 | 761.8 | 824.7 | 869.5 |
| 40° | 395.9 | 447.9 | 498.7 | 548.1 | 598.2 | 652.5 | 702.3 | 741.3 | 796.5 | 870.9 | 930.4 |
| 42.5° | 387.5 | 441.0 | 497.0 | 551.4 | 607.7 | 671.6 | 731.8 | 779.3 | 840.3 | 915.4 | 983.2 |
| 45° | 376.8 | 432.5 | 490.5 | 547.9 | 608.5 | 679.6 | 748.1 | 809.1 | 873.9 | 957.5 | 1022.8 |
| 47.5° | 363.7 | 420.5 | 481.8 | 539.9 | 603.1 | 679.8 | 755.8 | 825.5 | 896.5 | 986.4 | 1057.0 |
| 50° | 351.4 | 408.0 | 471.9 | 529.3 | 592.7 | 673.0 | 755.0 | 832.9 | 910.5 | 1003.4 | 1077.4 |
| 52.5° | 341.8 | 397.3 | 463.4 | 520.8 | 580.7 | 661.8 | 746.8 | 829.3 | 912.7 | 1005.6 | 1081.3 |
| 55° | 335.8 | 388.6 | 456.3 | 515.1 | 568.6 | 649.8 | 734.2 | 817.0 | 904.5 | 991.1 | 1067.1 |
| 57.5° | 336.6 | 386.9 | 452.2 | 514.0 | 559.9 | 639.4 | 720.0 | 799.5 | 879.0 | 961.6 | 1040.0 |
| 60° | 345.1 | 390.5 | 450.1 | 506.3 | 565.4 | 640.5 | 713.7 | 780.1 | 843.8 | 919.8 | 993.0 |
| 62.5° | 366.4 | 405.5 | 453.6 | 511.5 | 576.6 | 650.9 | 709.6 | 750.1 | 788.1 | 864.0 | 938.6 |
| 65° | 406.9 | 440.8 | 479.3 | 530.1 | 593.8 | 665.4 | 693.0 | 701.2 | 725.5 | 797.9 | 872.0 |
| 67.5° | 446.5 | 486.6 | 508.5 | 541.0 | 600.6 | 669.5 | 673.0 | 637.8 | 637.2 | 707.7 | 761.3 |
| 70° | 484.7 | 542.9 | 551.7 | 569.7 | 610.5 | 665.1 | 652.3 | 584.2 | 553.3 | 562.9 | 594.0 |
| 72.5° | 459.6 | 546.8 | 553.1 | 558.5 | 582.8 | 633.7 | 618.9 | 527.1 | 458.0 | 445.7 | 480.9 |
| 75° | 350.9 | 461.5 | 476.3 | 466.7 | 480.1 | 518.9 | 516.2 | 444.3 | 420.8 | 429.0 | 442.7 |
| 77.5° | 252.5 | 355.8 | 387.7 | 356.6 | 353.0 | 378.2 | 371.1 | 377.1 | 421.6 | 433.6 | 430.4 |
| 80° | 146.5 | 226.0 | 271.6 | 241.8 | 231.2 | 247.0 | 274.9 | 317.0 | 365.6 | 391.6 | 396.5 |
| 82.5° | 91.5 | 133.4 | 181.4 | 170.0 | 155.5 | 183.3 | 226.5 | 256.0 | 280.1 | 303.9 | 305.2 |
| 85° | 39.6 | 57.1 | 88.5 | 92.9 | 115.0 | 139.9 | 174.3 | 182.8 | 209.1 | 227.3 | 211.5 |
| 87.5° | 1.4 | 1.4 | 21.3 | 31.7 | 56.3 | 101.1 | 136.9 | 122.4 | 124.1 | 108.8 | 101.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 100° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 102.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 105° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 107.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |



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CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 115° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 117.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 120° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140° | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145° | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165° | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170° | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |



REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 |
| 2.5° | 180.3 | 179.8 | 180.1 | 179.3 | 179.3 | 179.5 | 179.5 | 178.7 | 178.7 | 178.7 | 178.4 |
| 5° | 186.6 | 186.1 | 185.8 | 185.3 | 184.4 | 185.0 | 184.2 | 183.6 | 182.8 | 182.5 | 181.7 |
| 7.5° | 194.8 | 194.0 | 193.7 | 192.4 | 191.3 | 190.7 | 190.2 | 188.3 | 187.5 | 186.9 | 185.8 |
| 10° | 204.4 | 204.4 | 203.8 | 201.1 | 200.3 | 198.4 | 196.5 | 194.3 | 192.6 | 190.2 | 188.8 |
| 12.5° | 216.7 | 217.5 | 215.6 | 213.1 | 211.2 | 207.4 | 203.8 | 200.8 | 197.6 | 194.0 | 191.8 |
| 15° | 235.0 | 235.5 | 231.7 | 229.5 | 226.5 | 222.2 | 216.7 | 211.8 | 206.9 | 201.9 | 197.8 |
| 17.5° | 262.1 | 261.2 | 255.8 | 253.6 | 248.4 | 241.0 | 233.6 | 227.1 | 219.7 | 212.9 | 207.7 |
| 20° | 301.1 | 297.9 | 283.6 | 282.8 | 276.3 | 265.9 | 255.2 | 245.6 | 235.8 | 227.1 | 218.3 |
| 22.5° | 348.7 | 341.3 | 330.9 | 319.2 | 306.6 | 295.1 | 282.5 | 269.1 | 256.9 | 245.9 | 236.4 |
| 25° | 410.7 | 394.3 | 384.7 | 368.9 | 358.0 | 337.7 | 320.3 | 309.6 | 292.9 | 280.3 | 268.1 |
| 27.5° | 493.5 | 467.5 | 453.6 | 436.4 | 412.1 | 397.9 | 374.1 | 353.6 | 335.8 | 315.1 | 301.4 |
| 30° | 600.9 | 581.8 | 546.8 | 522.7 | 489.1 | 454.7 | 425.5 | 398.7 | 375.4 | 350.6 | 330.4 |
| 32.5° | 711.3 | 699.3 | 658.3 | 613.5 | 562.3 | 511.8 | 468.9 | 435.8 | 405.5 | 377.6 | 354.4 |
| 35° | 805.0 | 780.1 | 740.0 | 693.0 | 627.4 | 568.9 | 514.5 | 472.5 | 434.7 | 400.0 | 370.8 |
| 37.5° | 865.4 | 854.5 | 813.7 | 760.5 | 688.6 | 625.5 | 569.2 | 519.4 | 472.5 | 427.1 | 389.4 |
| 40° | 932.6 | 926.3 | 892.2 | 826.9 | 760.5 | 683.1 | 618.9 | 566.5 | 515.9 | 461.8 | 412.3 |
| 42.5° | 992.7 | 998.5 | 963.5 | 906.1 | 829.3 | 742.2 | 673.8 | 615.6 | 558.0 | 502.8 | 445.7 |
| 45° | 1046.6 | 1057.0 | 1031.2 | 978.0 | 893.8 | 798.4 | 727.1 | 663.7 | 600.9 | 540.5 | 476.8 |
| 47.5° | 1087.0 | 1098.2 | 1076.6 | 1034.8 | 947.1 | 845.4 | 773.9 | 702.8 | 636.9 | 567.6 | 500.1 |
| 50° | 1120.9 | 1127.4 | 1111.1 | 1074.4 | 990.3 | 891.1 | 811.3 | 736.7 | 663.7 | 588.9 | 515.1 |
| 52.5° | 1140.5 | 1144.4 | 1128.2 | 1101.8 | 1023.1 | 925.0 | 840.5 | 760.2 | 682.6 | 603.6 | 524.9 |
| 55° | 1139.4 | 1152.9 | 1134.6 | 1113.2 | 1033.2 | 941.1 | 855.8 | 773.6 | 696.5 | 613.2 | 530.6 |
| 57.5° | 1118.1 | 1137.8 | 1129.3 | 1102.8 | 1024.7 | 940.0 | 858.0 | 781.2 | 705.5 | 616.4 | 527.9 |
| 60° | 1077.2 | 1104.2 | 1110.2 | 1072.5 | 990.8 | 909.9 | 837.2 | 772.5 | 697.1 | 602.0 | 511.3 |
| 62.5° | 1019.2 | 1041.1 | 1056.7 | 1005.3 | 924.4 | 847.6 | 790.8 | 739.7 | 662.9 | 559.1 | 476.8 |
| 65° | 931.8 | 941.9 | 946.3 | 898.7 | 819.5 | 768.4 | 731.2 | 687.2 | 602.0 | 498.1 | 423.5 |
| 67.5° | 801.7 | 800.3 | 804.7 | 782.6 | 724.1 | 697.4 | 672.7 | 624.9 | 525.5 | 428.5 | 354.1 |
| 70° | 637.5 | 665.9 | 690.0 | 666.5 | 630.1 | 603.3 | 582.8 | 526.3 | 419.7 | 330.9 | 269.1 |
| 72.5° | 518.9 | 542.1 | 555.3 | 534.8 | 499.5 | 480.4 | 453.3 | 397.0 | 295.4 | 235.3 | 184.7 |
| 75° | 438.3 | 421.3 | 429.3 | 416.4 | 383.9 | 356.3 | 340.8 | 278.7 | 193.7 | 155.8 | 115.0 |
| 77.5° | 395.9 | 368.9 | 351.7 | 324.1 | 286.9 | 255.5 | 239.6 | 173.2 | 122.2 | 91.8 | 66.4 |
| 80° | 350.1 | 312.6 | 267.8 | 223.2 | 191.3 | 171.9 | 160.9 | 98.9 | 67.2 | 53.3 | 38.3 |
| 82.5° | 266.1 | 230.9 | 187.5 | 155.2 | 127.6 | 111.2 | 98.7 | 56.6 | 38.0 | 28.1 | 21.9 |
| 85° | 170.5 | 157.1 | 143.5 | 127.6 | 106.8 | 85.8 | 66.1 | 41.2 | 27.9 | 16.1 | 12.0 |
| 87.5° | 82.2 | 68.3 | 67.8 | 62.6 | 59.6 | 47.0 | 27.9 | 9.6 | 6.0 | 5.2 | 3.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 100° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 102.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 105° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 107.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |



REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 115° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 117.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 120° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140° | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145° | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165° | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170° | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |



REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 |
| 2.5° | 177.9 | 177.6 | 177.1 | 177.1 | 176.8 | 176.5 | 176.3 | 176.3 | 176.5 | 176.0 | 175.7 |
| 5° | 180.9 | 180.6 | 179.8 | 179.5 | 179.3 | 178.7 | 178.7 | 178.4 | 178.4 | 177.9 | 177.6 |
| 7.5° | 184.4 | 183.9 | 183.3 | 183.1 | 182.2 | 182.2 | 182.2 | 182.8 | 182.8 | 182.8 | 183.1 |
| 10° | 188.0 | 186.6 | 186.1 | 186.1 | 185.8 | 186.1 | 186.9 | 187.5 | 188.3 | 188.8 | 189.4 |
| 12.5° | 189.9 | 188.6 | 188.0 | 187.5 | 188.3 | 188.3 | 189.6 | 191.3 | 192.6 | 194.0 | 194.5 |
| 15° | 194.8 | 192.4 | 191.3 | 189.9 | 189.9 | 189.9 | 191.3 | 192.6 | 194.3 | 195.9 | 196.2 |
| 17.5° | 203.3 | 198.9 | 196.8 | 193.7 | 192.9 | 191.8 | 191.8 | 192.4 | 193.4 | 194.8 | 194.8 |
| 20° | 211.8 | 207.4 | 203.8 | 200.6 | 198.4 | 195.4 | 193.2 | 191.3 | 190.5 | 191.0 | 191.0 |
| 22.5° | 227.1 | 221.9 | 217.5 | 212.0 | 207.1 | 203.3 | 197.8 | 193.2 | 189.6 | 188.6 | 187.7 |
| 25° | 254.7 | 247.3 | 239.9 | 231.7 | 226.2 | 219.2 | 211.5 | 203.8 | 196.8 | 191.8 | 187.5 |
| 27.5° | 285.3 | 275.2 | 264.5 | 251.7 | 242.9 | 232.3 | 222.2 | 211.2 | 202.5 | 195.1 | 187.2 |
| 30° | 314.5 | 295.7 | 280.3 | 264.2 | 250.0 | 235.5 | 223.0 | 210.1 | 200.6 | 191.8 | 182.2 |
| 32.5° | 329.0 | 306.6 | 285.8 | 265.6 | 248.4 | 231.7 | 218.1 | 203.6 | 193.4 | 183.6 | 172.1 |
| 35° | 339.1 | 312.3 | 287.5 | 264.0 | 244.6 | 226.2 | 210.7 | 195.6 | 183.6 | 172.4 | 159.3 |
| 37.5° | 351.7 | 318.1 | 288.8 | 262.6 | 239.9 | 219.2 | 201.7 | 184.7 | 171.0 | 159.0 | 145.4 |
| 40° | 368.1 | 326.8 | 290.5 | 258.8 | 232.8 | 209.3 | 191.3 | 173.0 | 158.5 | 145.6 | 133.1 |
| 42.5° | 390.7 | 338.8 | 292.4 | 254.1 | 224.9 | 200.3 | 181.7 | 164.0 | 148.6 | 135.0 | 122.4 |
| 45° | 413.2 | 352.8 | 297.3 | 252.8 | 219.7 | 194.5 | 174.9 | 156.0 | 139.9 | 125.4 | 111.0 |
| 47.5° | 429.8 | 363.2 | 302.5 | 253.6 | 216.7 | 188.6 | 167.5 | 146.5 | 128.4 | 112.6 | 97.8 |
| 50° | 440.5 | 369.7 | 307.1 | 255.8 | 213.9 | 180.6 | 155.8 | 134.4 | 115.9 | 100.3 | 85.5 |
| 52.5° | 446.0 | 371.6 | 308.8 | 254.9 | 206.9 | 168.1 | 143.2 | 122.7 | 104.9 | 89.6 | 76.5 |
| 55° | 447.6 | 369.7 | 305.2 | 247.3 | 194.5 | 155.5 | 131.7 | 112.3 | 95.1 | 80.6 | 68.9 |
| 57.5° | 441.8 | 361.5 | 292.6 | 231.7 | 178.2 | 143.5 | 119.4 | 100.6 | 84.1 | 71.3 | 60.7 |
| 60° | 423.3 | 342.7 | 270.5 | 207.4 | 159.8 | 127.3 | 103.3 | 84.7 | 71.3 | 60.1 | 52.7 |
| 62.5° | 389.4 | 310.7 | 240.5 | 177.1 | 134.7 | 105.2 | 82.5 | 66.4 | 55.5 | 47.6 | 43.7 |
| 65° | 347.0 | 267.0 | 195.4 | 140.7 | 103.0 | 78.4 | 59.3 | 48.6 | 41.0 | 36.4 | 34.4 |
| 67.5° | 283.6 | 208.8 | 146.2 | 100.3 | 71.0 | 53.3 | 40.2 | 34.4 | 31.1 | 29.8 | 29.2 |
| 70° | 204.1 | 144.8 | 96.7 | 65.0 | 46.2 | 36.4 | 29.2 | 26.8 | 25.4 | 25.4 | 25.7 |
| 72.5° | 134.4 | 89.4 | 59.0 | 41.5 | 32.8 | 27.3 | 23.8 | 22.7 | 22.7 | 23.2 | 23.5 |
| 75° | 78.7 | 51.9 | 36.4 | 30.3 | 26.0 | 23.0 | 21.0 | 20.2 | 20.2 | 20.5 | 20.5 |
| 77.5° | 46.5 | 32.0 | 26.0 | 23.0 | 21.0 | 19.7 | 18.6 | 17.5 | 17.2 | 17.2 | 18.0 |
| 80° | 28.7 | 22.7 | 20.2 | 18.3 | 16.9 | 15.9 | 14.8 | 14.8 | 14.8 | 14.5 | 15.0 |
| 82.5° | 18.6 | 16.1 | 15.9 | 15.3 | 13.7 | 12.6 | 11.5 | 11.5 | 12.0 | 11.5 | 11.8 |
| 85° | 11.2 | 10.7 | 10.4 | 10.4 | 9.8 | 9.3 | 8.5 | 8.5 | 9.3 | 9.0 | 7.9 |
| 87.5° | 3.0 | 2.7 | 3.6 | 3.3 | 3.8 | 3.8 | 3.8 | 4.4 | 5.7 | 7.4 | 5.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 100° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 102.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 105° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 107.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |



REPORT NUMBER: P173549
 CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° | |
|--------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 112.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 0° |
| 115° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 2.5° |
| 117.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 5° |
| 120° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 7.5° |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 10° |
| 125° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.5° |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 15° |
| 130° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.5° |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 20° |
| 135° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 22.5° |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 25° |
| 140° | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 27.5° |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30° |
| 145° | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 32.5° |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35° |
| 150° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.5° |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 40° |
| 155° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 42.5° |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 45° |
| 160° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 47.5° |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 50° |
| 165° | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 52.5° |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 55° |
| 170° | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 57.5° |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 60° |
| 175° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 62.5° |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 65° |
| 180° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 67.5° |
| | | | | | | | | | | | | 70° |
| | | | | | | | | | | | | 72.5° |
| | | | | | | | | | | | | 75° |
| | | | | | | | | | | | | 77.5° |
| | | | | | | | | | | | | 80° |
| | | | | | | | | | | | | 82.5° |
| | | | | | | | | | | | | 85° |
| | | | | | | | | | | | | 87.5° |
| | | | | | | | | | | | | 90° |
| | | | | | | | | | | | | 92.5° |
| | | | | | | | | | | | | 95° |
| | | | | | | | | | | | | 97.5° |
| | | | | | | | | | | | | 100° |
| | | | | | | | | | | | | 102.5° |
| | | | | | | | | | | | | 105° |
| | | | | | | | | | | | | 107.5° |
| | | | | | | | | | | | | 110° |



NUMBER: P173549
 NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° | 165° | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 112.5° | 6.9 |
| 175.4 | 175.7 | 175.2 | 174.9 | 175.2 | 175.4 | 174.6 | 174.3 | 174.1 | 173.8 | 174.1 | 115° | 8.1 |
| 177.4 | 177.4 | 176.5 | 176.0 | 176.0 | 175.7 | 174.9 | 174.6 | 173.5 | 173.2 | 174.1 | 117.5° | 9.6 |
| 182.8 | 182.5 | 181.7 | 180.9 | 180.6 | 180.6 | 178.7 | 177.9 | 177.4 | 175.7 | 176.0 | 120° | 11.3 |
| 189.1 | 189.1 | 189.4 | 188.3 | 186.9 | 186.6 | 184.4 | 183.1 | 182.2 | 180.9 | 180.3 | 122.5° | 13.2 |
| 194.0 | 193.2 | 192.9 | 191.3 | 189.9 | 189.4 | 187.5 | 186.4 | 185.3 | 183.9 | 183.6 | 125° | 15.5 |
| 195.6 | 194.0 | 192.9 | 191.0 | 189.4 | 188.3 | 186.6 | 185.5 | 184.2 | 183.3 | 182.8 | 127.5° | 17.9 |
| 194.0 | 192.4 | 190.7 | 188.6 | 186.4 | 185.0 | 183.1 | 181.4 | 180.9 | 179.8 | 178.2 | 130° | 20.4 |
| 190.5 | 188.6 | 186.6 | 183.9 | 181.4 | 179.5 | 177.4 | 176.0 | 174.3 | 172.7 | 169.4 | 132.5° | 22.8 |
| 186.1 | 183.9 | 182.0 | 178.4 | 176.0 | 173.8 | 171.3 | 169.1 | 167.2 | 164.0 | 159.0 | 135° | 25.2 |
| 183.1 | 178.4 | 175.2 | 170.2 | 167.5 | 164.8 | 163.7 | 161.5 | 158.8 | 153.0 | 147.0 | 137.5° | 27.6 |
| 178.7 | 170.2 | 164.2 | 159.3 | 155.5 | 152.2 | 150.3 | 147.8 | 145.1 | 139.6 | 133.4 | 140° | 29.9 |
| 171.3 | 161.5 | 155.8 | 150.5 | 146.2 | 142.6 | 139.1 | 134.4 | 130.9 | 124.6 | 120.2 | 142.5° | 32.1 |
| 160.1 | 151.9 | 146.7 | 141.8 | 136.1 | 131.4 | 127.1 | 121.6 | 116.4 | 110.1 | 106.3 | 145° | 34.0 |
| 147.6 | 140.2 | 133.6 | 128.4 | 122.4 | 117.8 | 113.1 | 106.8 | 101.9 | 96.2 | 92.6 | 147.5° | 35.6 |
| 134.4 | 126.5 | 118.9 | 112.9 | 107.4 | 102.2 | 98.1 | 92.1 | 86.9 | 81.4 | 79.5 | 150° | 37.3 |
| 122.7 | 113.7 | 105.5 | 99.5 | 93.4 | 88.3 | 83.9 | 77.6 | 73.2 | 69.4 | 67.2 | 152.5° | 38.8 |
| 111.2 | 101.7 | 94.0 | 87.7 | 81.7 | 76.2 | 70.5 | 65.6 | 61.7 | 60.1 | 57.1 | 155° | 40.0 |
| 98.4 | 88.5 | 81.2 | 74.3 | 69.4 | 63.7 | 59.3 | 56.0 | 53.6 | 52.2 | 50.3 | 157.5° | 41.1 |
| 85.2 | 77.1 | 69.4 | 63.1 | 57.1 | 52.2 | 49.5 | 47.8 | 47.0 | 45.9 | 45.1 | 160° | 42.2 |
| 74.6 | 67.5 | 59.8 | 53.8 | 48.4 | 44.8 | 43.4 | 42.6 | 42.1 | 41.5 | 41.2 | 162.5° | 43.2 |
| 67.2 | 59.6 | 52.7 | 47.0 | 42.9 | 41.0 | 40.4 | 39.9 | 39.3 | 39.1 | 38.8 | 165° | 44.0 |
| 61.5 | 53.8 | 47.6 | 42.6 | 39.6 | 39.1 | 38.8 | 38.3 | 37.7 | 37.7 | 37.2 | 167.5° | 44.4 |
| 54.7 | 48.1 | 42.6 | 39.1 | 37.4 | 37.2 | 36.9 | 36.6 | 36.4 | 36.4 | 36.1 | 170° | 44.5 |
| 47.6 | 42.6 | 39.1 | 36.6 | 36.1 | 35.5 | 35.0 | 34.4 | 34.2 | 34.7 | 35.0 | 172.5° | 44.9 |
| 40.4 | 37.4 | 35.3 | 34.4 | 33.9 | 33.1 | 32.5 | 32.0 | 32.0 | 32.5 | 33.3 | 175° | 45.5 |
| 33.6 | 32.5 | 32.0 | 31.4 | 31.1 | 30.9 | 30.3 | 29.8 | 29.8 | 29.8 | 30.3 | 177.5° | 45.7 |
| 29.0 | 28.4 | 28.4 | 28.1 | 27.9 | 27.9 | 27.3 | 26.8 | 26.8 | 26.8 | 26.8 | 180° | 45.6 |
| 25.4 | 25.7 | 25.7 | 25.7 | 25.4 | 25.1 | 24.9 | 24.3 | 24.1 | 23.5 | 23.0 | | |
| 23.5 | 23.2 | 23.0 | 22.7 | 22.4 | 22.1 | 21.9 | 21.6 | 21.0 | 20.5 | 19.9 | | |
| 21.0 | 20.5 | 19.7 | 19.4 | 19.1 | 18.6 | 18.6 | 18.3 | 17.8 | 16.9 | 16.4 | | |
| 18.3 | 17.8 | 16.9 | 16.4 | 16.4 | 16.1 | 15.6 | 15.3 | 14.5 | 13.7 | 13.1 | | |
| 14.8 | 13.9 | 13.1 | 12.9 | 12.6 | 12.3 | 12.0 | 11.8 | 11.5 | 10.7 | 10.4 | | |
| 10.9 | 10.1 | 9.3 | 9.0 | 8.7 | 8.2 | 7.9 | 7.9 | 7.9 | 7.1 | 6.6 | | |
| 7.1 | 6.0 | 5.2 | 4.4 | 4.4 | 4.1 | 3.6 | 3.0 | 2.5 | 1.7 | 1.1 | | |
| 3.6 | 1.9 | 1.1 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | |
| 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | |
| 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | | |
| 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | | |
| 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | |
| 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | | |
| 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | | |

'173549
 ENT-EXX-LED-E1-SLL-8030-ULG-CWB

REPORT NUMBER: P173549
 CATALOG NUMBER: ENT-EXX-I

TION (continued):

CANDELA DISTRIBUTION (con

| 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° | | 220° | 225° |
|------|------|------|------|------|------|------|------|------|------|--------|-------|-------|
| 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 0° | 177.4 | 177.4 |
| 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 2.5° | 174.1 | 173.8 |
| 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 5° | 174.1 | 172.4 |
| 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 7.5° | 174.9 | 173.5 |
| 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 10° | 178.4 | 176.3 |
| 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.5° | 181.4 | 179.0 |
| 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 15° | 181.2 | 177.6 |
| 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.5° | 175.4 | 171.3 |
| 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 20° | 165.9 | 160.4 |
| 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 22.5° | 153.6 | 148.4 |
| 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 25° | 141.5 | 135.5 |
| 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 27.5° | 128.1 | 123.0 |
| 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30° | 114.5 | 109.9 |
| 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 32.5° | 101.4 | 97.0 |
| 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35° | 88.3 | 83.9 |
| 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.5° | 75.7 | 71.6 |
| 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 40° | 63.9 | 60.9 |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 42.5° | 55.5 | 52.7 |
| 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 45° | 48.6 | 46.5 |
| 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 47.5° | 43.7 | 42.1 |
| 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 50° | 40.2 | 38.8 |
| 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 52.5° | 38.0 | 36.9 |
| 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 55° | 36.4 | 35.5 |
| 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 57.5° | 35.3 | 34.2 |
| 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 60° | 33.9 | 33.1 |
| 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 62.5° | 32.5 | 31.4 |
| 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 65° | 30.0 | 28.7 |
| 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 67.5° | 26.5 | 25.4 |
| | | | | | | | | | | 70° | 22.4 | 22.1 |
| | | | | | | | | | | 72.5° | 18.8 | 18.6 |
| | | | | | | | | | | 75° | 15.9 | 15.9 |
| | | | | | | | | | | 77.5° | 13.1 | 12.9 |
| | | | | | | | | | | 80° | 10.1 | 9.6 |
| | | | | | | | | | | 82.5° | 5.7 | 5.5 |
| | | | | | | | | | | 85° | 0.8 | 0.6 |
| | | | | | | | | | | 87.5° | 0.0 | 0.0 |
| | | | | | | | | | | 90° | 0.0 | 0.0 |
| | | | | | | | | | | 92.5° | 0.0 | 0.0 |
| | | | | | | | | | | 95° | 0.2 | 0.2 |
| | | | | | | | | | | 97.5° | 0.5 | 0.5 |
| | | | | | | | | | | 100° | 1.6 | 1.6 |
| | | | | | | | | | | 102.5° | 2.8 | 2.8 |
| | | | | | | | | | | 105° | 3.8 | 3.8 |
| | | | | | | | | | | 107.5° | 4.8 | 4.8 |
| | | | | | | | | | | 110° | 5.8 | 5.8 |

REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL

LED-E1-SLL-8030-ULG-CWB

tinued):

CANDELA DISTRIBUTION (continued):

| 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° | | 220° | 225° | 230° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|------|------|
| 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 112.5° | 6.9 | 6.9 | 6.9 |
| 174.1 | 174.3 | 175.4 | 176.0 | 176.3 | 176.3 | 176.5 | 177.1 | 177.4 | 115° | 8.1 | 8.1 | 8.1 |
| 172.4 | 173.0 | 173.5 | 174.3 | 174.6 | 174.6 | 174.9 | 175.7 | 176.5 | 117.5° | 9.6 | 9.6 | 9.6 |
| 172.7 | 172.4 | 172.7 | 173.2 | 173.2 | 173.2 | 173.5 | 174.3 | 175.2 | 120° | 11.3 | 11.3 | 11.3 |
| 174.9 | 173.2 | 172.1 | 171.9 | 171.6 | 171.6 | 172.1 | 173.2 | 174.1 | 122.5° | 13.2 | 13.2 | 13.2 |
| 176.8 | 174.6 | 172.4 | 171.0 | 170.0 | 169.4 | 169.7 | 170.8 | 172.4 | 125° | 15.5 | 15.5 | 15.5 |
| 175.2 | 171.9 | 169.4 | 167.5 | 165.9 | 165.3 | 165.6 | 166.4 | 168.3 | 127.5° | 17.9 | 17.9 | 17.9 |
| 168.1 | 164.5 | 161.8 | 160.4 | 159.6 | 159.3 | 159.8 | 161.5 | 163.1 | 130° | 20.4 | 20.4 | 20.4 |
| 157.9 | 156.0 | 153.6 | 152.8 | 151.1 | 151.1 | 150.8 | 150.8 | 151.7 | 132.5° | 22.8 | 22.8 | 22.8 |
| 146.7 | 145.6 | 143.2 | 141.3 | 139.3 | 139.1 | 137.2 | 137.4 | 137.2 | 135° | 25.2 | 25.2 | 25.2 |
| 133.9 | 132.5 | 129.5 | 126.8 | 124.6 | 123.2 | 121.1 | 120.8 | 120.0 | 137.5° | 27.6 | 27.6 | 27.6 |
| 121.1 | 118.9 | 115.3 | 112.6 | 109.9 | 107.9 | 106.0 | 104.1 | 103.6 | 140° | 29.9 | 29.9 | 29.9 |
| 107.9 | 106.0 | 101.9 | 99.5 | 95.6 | 92.9 | 91.3 | 88.5 | 87.2 | 142.5° | 32.1 | 32.1 | 32.1 |
| 95.1 | 92.9 | 88.3 | 83.6 | 80.9 | 77.6 | 75.1 | 71.6 | 70.0 | 145° | 34.0 | 34.0 | 34.0 |
| 80.9 | 79.5 | 74.9 | 70.0 | 67.5 | 63.1 | 60.1 | 57.1 | 56.6 | 147.5° | 35.6 | 35.6 | 35.6 |
| 69.4 | 66.4 | 62.8 | 59.0 | 54.9 | 52.4 | 51.1 | 50.5 | 50.3 | 150° | 37.3 | 37.3 | 37.3 |
| 58.8 | 56.9 | 53.6 | 50.8 | 48.9 | 48.4 | 48.4 | 48.4 | 48.6 | 152.5° | 38.8 | 38.8 | 38.8 |
| 51.6 | 49.2 | 47.6 | 46.7 | 46.7 | 47.0 | 47.3 | 47.8 | 48.4 | 155° | 40.0 | 40.0 | 40.0 |
| 45.6 | 44.8 | 44.8 | 44.5 | 45.1 | 45.6 | 46.5 | 47.3 | 47.8 | 157.5° | 41.1 | 41.1 | 41.1 |
| 41.5 | 41.8 | 42.3 | 42.6 | 43.7 | 44.5 | 45.4 | 45.9 | 46.5 | 160° | 42.2 | 42.2 | 42.2 |
| 38.3 | 38.5 | 39.1 | 39.9 | 40.7 | 41.8 | 42.6 | 43.2 | 43.4 | 162.5° | 43.2 | 43.2 | 43.2 |
| 36.4 | 36.4 | 37.2 | 38.0 | 39.1 | 39.9 | 40.7 | 41.0 | 41.5 | 165° | 44.0 | 44.0 | 44.0 |
| 34.7 | 35.0 | 35.8 | 36.4 | 36.9 | 37.4 | 38.0 | 38.3 | 39.3 | 167.5° | 44.4 | 44.4 | 44.4 |
| 33.6 | 33.9 | 34.2 | 33.6 | 34.2 | 34.7 | 35.3 | 35.8 | 36.4 | 170° | 44.5 | 44.5 | 44.5 |
| 32.2 | 31.7 | 31.1 | 31.1 | 31.4 | 32.0 | 33.1 | 33.9 | 34.7 | 172.5° | 44.9 | 44.9 | 44.9 |
| 30.6 | 29.8 | 29.0 | 28.7 | 29.0 | 29.5 | 30.6 | 31.7 | 32.2 | 175° | 45.5 | 45.5 | 45.5 |
| 27.9 | 27.6 | 27.3 | 27.1 | 27.3 | 27.9 | 29.0 | 29.8 | 30.6 | 177.5° | 45.7 | 45.7 | 45.7 |
| 25.1 | 24.9 | 24.6 | 24.9 | 25.1 | 25.7 | 26.8 | 27.6 | 28.4 | 180° | 45.6 | 45.6 | 45.6 |
| 21.9 | 21.9 | 21.9 | 22.1 | 22.4 | 23.5 | 24.3 | 25.4 | 25.7 | | | | |
| 18.3 | 18.8 | 18.8 | 18.8 | 19.4 | 20.8 | 21.9 | 23.0 | 23.5 | | | | |
| 15.6 | 15.3 | 15.9 | 15.9 | 16.4 | 17.5 | 18.3 | 19.1 | 19.4 | | | | |
| 12.6 | 12.6 | 12.9 | 12.9 | 12.9 | 13.4 | 13.9 | 13.9 | 13.9 | | | | |
| 9.3 | 9.0 | 8.7 | 8.2 | 8.2 | 8.5 | 8.5 | 8.5 | 9.0 | | | | |
| 4.4 | 3.6 | 3.6 | 3.3 | 3.0 | 3.0 | 3.0 | 3.6 | 3.8 | | | | |
| 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | | | | |
| 0.0 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | | | |
| 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | | | |
| 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | | | | |
| 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | | | | |
| 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | |
| 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | | | | |
| 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | | | | |



REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULC

.-8030-ULG-CWB

CANDELA DISTRIBUTION (continued):

| 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° | | 275° | 280° | 285° | 290° |
|------|------|------|------|------|------|------|------|--------|-------|-------|-------|-------|
| 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 0° | 177.4 | 177.4 | 177.4 | 177.4 |
| 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 2.5° | 177.1 | 177.6 | 177.6 | 178.2 |
| 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 5° | 176.5 | 177.1 | 177.4 | 178.2 |
| 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 7.5° | 175.7 | 176.8 | 177.4 | 178.4 |
| 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 10° | 174.9 | 176.5 | 177.6 | 179.5 |
| 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.5° | 174.1 | 175.7 | 177.6 | 179.5 |
| 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 15° | 170.0 | 171.6 | 174.3 | 177.1 |
| 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.5° | 164.0 | 165.6 | 167.8 | 170.2 |
| 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 20° | 152.5 | 153.0 | 155.2 | 157.9 |
| 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 22.5° | 136.4 | 136.1 | 137.2 | 140.2 |
| 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 25° | 118.0 | 119.1 | 118.3 | 121.9 |
| 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 27.5° | 101.1 | 101.9 | 103.0 | 104.6 |
| 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30° | 85.0 | 84.7 | 85.5 | 86.9 |
| 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 32.5° | 68.3 | 68.1 | 68.3 | 69.7 |
| 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35° | 56.0 | 55.2 | 56.0 | 57.9 |
| 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.5° | 50.5 | 50.5 | 51.4 | 52.7 |
| 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 40° | 48.9 | 49.2 | 49.7 | 50.8 |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 42.5° | 48.6 | 48.6 | 48.6 | 49.2 |
| 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 45° | 48.1 | 47.8 | 47.8 | 47.8 |
| 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 47.5° | 46.7 | 46.5 | 46.5 | 46.5 |
| 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 50° | 43.7 | 44.0 | 44.0 | 44.3 |
| 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 52.5° | 41.8 | 42.3 | 42.6 | 43.2 |
| 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 55° | 39.9 | 41.0 | 41.8 | 42.3 |
| 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 57.5° | 36.9 | 38.0 | 38.8 | 40.2 |
| 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 60° | 35.3 | 35.8 | 36.1 | 36.9 |
| 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 62.5° | 33.1 | 33.6 | 34.2 | 34.4 |
| 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 65° | 31.1 | 31.7 | 32.5 | 32.8 |
| 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 67.5° | 29.0 | 29.8 | 30.3 | 30.6 |
| | | | | | | | | 70° | 26.5 | 27.6 | 27.9 | 28.4 |
| | | | | | | | | 72.5° | 24.1 | 24.6 | 24.9 | 25.4 |
| | | | | | | | | 75° | 20.2 | 21.0 | 21.6 | 21.9 |
| | | | | | | | | 77.5° | 15.0 | 15.9 | 16.7 | 17.5 |
| | | | | | | | | 80° | 9.6 | 10.4 | 10.9 | 11.5 |
| | | | | | | | | 82.5° | 4.4 | 5.2 | 5.5 | 6.0 |
| | | | | | | | | 85° | 0.8 | 0.8 | 0.8 | 1.1 |
| | | | | | | | | 87.5° | 0.8 | 1.1 | 1.1 | 1.1 |
| | | | | | | | | 90° | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 92.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 95° | 0.2 | 0.2 | 0.2 | 0.2 |
| | | | | | | | | 97.5° | 0.5 | 0.5 | 0.5 | 0.5 |
| | | | | | | | | 100° | 1.6 | 1.6 | 1.6 | 1.6 |
| | | | | | | | | 102.5° | 2.8 | 2.8 | 2.8 | 2.8 |
| | | | | | | | | 105° | 3.8 | 3.8 | 3.8 | 3.8 |
| | | | | | | | | 107.5° | 4.8 | 4.8 | 4.8 | 4.8 |
| | | | | | | | | 110° | 5.8 | 5.8 | 5.8 | 5.8 |



REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

3-CWB

CANDELA DISTRIBUTION (continued):

| 295° | 300° | 305° | 310° | 315° | 320° | 325° | | 275° | 280° | 285° | 290° | 295° |
|-------|-------|-------|-------|-------|-------|-------|--------|------|------|------|------|------|
| 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 112.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 178.2 | 178.4 | 179.0 | 179.0 | 179.5 | 179.5 | 180.1 | 115° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 178.7 | 179.3 | 180.1 | 180.3 | 181.4 | 182.0 | 182.5 | 117.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 179.5 | 180.3 | 181.4 | 182.2 | 183.6 | 184.4 | 185.3 | 120° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 180.9 | 182.2 | 184.2 | 185.0 | 186.1 | 188.0 | 189.4 | 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 182.8 | 184.7 | 187.2 | 189.4 | 190.7 | 193.4 | 195.6 | 125° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 180.1 | 184.2 | 187.2 | 191.3 | 194.8 | 199.5 | 203.3 | 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 173.5 | 177.4 | 182.5 | 187.7 | 193.2 | 201.1 | 208.8 | 130° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 161.5 | 165.9 | 171.9 | 178.4 | 186.4 | 196.8 | 207.7 | 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 144.0 | 147.8 | 154.4 | 161.8 | 170.8 | 183.6 | 199.5 | 135° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 125.4 | 130.6 | 136.9 | 144.8 | 154.9 | 170.2 | 187.2 | 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 107.7 | 113.1 | 120.0 | 128.7 | 140.4 | 156.9 | 176.3 | 140° | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 89.4 | 95.6 | 101.9 | 112.9 | 124.6 | 141.8 | 163.4 | 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 72.9 | 77.6 | 85.2 | 95.1 | 108.8 | 125.7 | 148.6 | 145° | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 59.8 | 63.7 | 71.0 | 80.6 | 92.9 | 109.6 | 129.5 | 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 54.7 | 57.7 | 62.8 | 69.7 | 80.6 | 96.7 | 113.7 | 150° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 52.7 | 55.5 | 59.3 | 65.3 | 73.8 | 86.1 | 100.6 | 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 50.8 | 53.6 | 57.9 | 63.4 | 70.5 | 79.3 | 91.5 | 155° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 49.2 | 52.2 | 56.9 | 62.8 | 69.4 | 77.1 | 86.6 | 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 47.6 | 50.3 | 54.9 | 61.7 | 68.9 | 77.1 | 86.6 | 160° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 45.1 | 47.8 | 52.7 | 59.8 | 67.8 | 76.8 | 87.7 | 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 43.7 | 46.2 | 51.4 | 59.3 | 67.8 | 77.6 | 89.4 | 165° | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 42.9 | 45.1 | 51.1 | 60.1 | 70.0 | 81.4 | 94.3 | 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 41.5 | 44.0 | 50.3 | 60.4 | 72.7 | 86.9 | 103.0 | 170° | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 37.7 | 40.7 | 47.6 | 58.5 | 71.9 | 89.4 | 110.7 | 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 34.7 | 36.6 | 42.3 | 53.8 | 67.8 | 86.6 | 112.0 | 175° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 33.3 | 34.4 | 38.3 | 47.6 | 61.2 | 81.4 | 107.9 | 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 31.4 | 32.0 | 34.7 | 42.1 | 52.4 | 72.1 | 97.8 | 180° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
| 29.0 | 29.2 | 31.4 | 36.1 | 43.7 | 57.4 | 81.7 | | | | | | |
| 26.0 | 26.5 | 27.9 | 31.1 | 36.1 | 44.0 | 59.3 | | | | | | |
| 22.4 | 22.7 | 23.2 | 25.4 | 28.4 | 33.9 | 42.1 | | | | | | |
| 18.0 | 18.0 | 18.6 | 19.7 | 21.3 | 25.1 | 30.0 | | | | | | |
| 11.8 | 12.6 | 13.1 | 15.0 | 15.6 | 18.3 | 21.3 | | | | | | |
| 6.8 | 7.4 | 7.6 | 8.2 | 9.6 | 10.9 | 13.1 | | | | | | |
| 1.1 | 1.7 | 1.7 | 2.2 | 2.7 | 3.0 | 3.6 | | | | | | |
| 1.4 | 1.4 | 1.4 | 1.4 | 1.7 | 1.7 | 1.7 | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | | | | | |
| 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | | | | | |
| 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | | | | | | |
| 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | | | | | | |
| 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | |
| 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | | | | | | |
| 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | | | | | | |



REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

CANDELA DISTRIBUTION (continued):

| 300° | 305° | 310° | 315° | 320° | 325° | | 330° | 335° | 340° | 345° | 350° | 355° |
|------|------|------|------|------|------|--------|-------|-------|-------|-------|-------|-------|
| 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 0° | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 | 177.4 |
| 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 2.5° | 180.3 | 180.1 | 180.6 | 181.2 | 180.9 | 182.5 |
| 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 5° | 183.3 | 183.1 | 183.9 | 184.4 | 184.7 | 185.8 |
| 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 7.5° | 186.4 | 186.6 | 188.0 | 188.3 | 189.1 | 190.5 |
| 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 10° | 189.9 | 191.3 | 192.9 | 193.4 | 194.8 | 196.5 |
| 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.5° | 197.0 | 198.9 | 201.1 | 202.7 | 205.5 | 208.8 |
| 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 15° | 206.9 | 211.5 | 215.0 | 218.3 | 222.4 | 226.2 |
| 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.5° | 215.6 | 224.6 | 232.3 | 239.1 | 245.6 | 251.7 |
| 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 20° | 219.7 | 233.9 | 245.9 | 258.5 | 271.1 | 279.5 |
| 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 22.5° | 215.9 | 235.8 | 254.4 | 274.6 | 293.7 | 311.0 |
| 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 25° | 207.7 | 232.3 | 259.9 | 288.8 | 317.8 | 344.0 |
| 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 27.5° | 200.0 | 230.1 | 262.1 | 295.1 | 329.6 | 361.0 |
| 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30° | 189.9 | 222.7 | 257.7 | 291.8 | 329.3 | 366.1 |
| 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 32.5° | 174.9 | 208.2 | 245.1 | 282.3 | 323.8 | 364.8 |
| 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35° | 157.1 | 190.5 | 228.2 | 267.2 | 313.4 | 359.6 |
| 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.5° | 137.7 | 170.5 | 209.9 | 251.7 | 299.5 | 351.1 |
| 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 40° | 121.3 | 150.5 | 191.3 | 236.6 | 286.9 | 340.5 |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 42.5° | 108.2 | 134.7 | 173.2 | 219.2 | 273.0 | 328.2 |
| 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 45° | 100.6 | 122.7 | 157.9 | 203.6 | 258.5 | 315.3 |
| 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 47.5° | 98.9 | 116.7 | 147.6 | 191.8 | 244.6 | 301.7 |
| 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 50° | 100.6 | 116.9 | 142.9 | 184.4 | 233.9 | 289.4 |
| 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 52.5° | 103.8 | 119.7 | 143.5 | 181.7 | 229.5 | 282.0 |
| 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 55° | 109.0 | 127.1 | 149.2 | 184.2 | 229.0 | 279.0 |
| 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 57.5° | 119.4 | 139.9 | 162.3 | 194.3 | 235.5 | 282.3 |
| 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 60° | 132.5 | 157.1 | 184.2 | 218.1 | 251.4 | 293.2 |
| 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 62.5° | 140.4 | 174.1 | 211.2 | 250.6 | 284.7 | 318.9 |
| 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 65° | 139.6 | 181.2 | 233.6 | 289.6 | 332.3 | 365.1 |
| 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 67.5° | 130.6 | 176.0 | 228.2 | 291.8 | 356.0 | 402.2 |
| | | | | | | 70° | 109.0 | 151.4 | 212.3 | 289.1 | 368.1 | 427.4 |
| | | | | | | 72.5° | 86.9 | 124.3 | 182.5 | 254.9 | 332.8 | 393.5 |
| | | | | | | 75° | 57.9 | 87.7 | 134.7 | 195.6 | 252.2 | 305.0 |
| | | | | | | 77.5° | 39.3 | 55.5 | 84.1 | 128.4 | 175.2 | 218.3 |
| | | | | | | 80° | 26.2 | 34.7 | 48.1 | 70.8 | 98.1 | 125.7 |
| | | | | | | 82.5° | 15.3 | 19.1 | 24.6 | 35.0 | 51.9 | 73.2 |
| | | | | | | 85° | 4.1 | 5.2 | 6.8 | 9.0 | 16.1 | 28.4 |
| | | | | | | 87.5° | 1.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| | | | | | | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | 95° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| | | | | | | 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| | | | | | | 100° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| | | | | | | 102.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | | | | | | 105° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | | | | | | 107.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | | | | | | 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |



REPORT NUMBER: P173549

CATALOG NUMBER: ENT-EXX-LED-E1-SLL-8030-ULG-CWB

CANDELA DISTRIBUTION (continued):

| 360° | | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|-------|--------|------|------|------|------|------|------|------|
| 177.4 | 112.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 181.2 | 115° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 185.5 | 117.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 190.7 | 120° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 198.7 | 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 210.1 | 125° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 230.6 | 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 257.1 | 130° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 289.6 | 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 326.3 | 135° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 368.1 | 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 393.8 | 140° | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 399.2 | 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 403.1 | 145° | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 404.2 | 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 402.5 | 150° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 395.9 | 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 387.5 | 155° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 376.8 | 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 363.7 | 160° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 351.4 | 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 341.8 | 165° | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 335.8 | 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 336.6 | 170° | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 345.1 | 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 366.4 | 175° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 406.9 | 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 446.5 | 180° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
| 484.7 | | | | | | | | |
| 459.6 | | | | | | | | |
| 350.9 | | | | | | | | |
| 252.5 | | | | | | | | |
| 146.5 | | | | | | | | |
| 91.5 | | | | | | | | |
| 39.6 | | | | | | | | |
| 1.4 | | | | | | | | |
| 0.0 | | | | | | | | |
| 0.0 | | | | | | | | |
| 0.2 | | | | | | | | |
| 0.5 | | | | | | | | |
| 1.6 | | | | | | | | |
| 2.8 | | | | | | | | |
| 3.8 | | | | | | | | |
| 4.8 | | | | | | | | |
| 5.8 | | | | | | | | |

(END OF F

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(REPORT)