

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: P173460

Luminaire Tested: **ENT-EXX-LED-E1-BL2-7050-ULG-BBB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173460
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-BL2-7050-ULG-BBB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1921.4 lumens
Efficiency: N/A
Efficacy: 349.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U3 - G1

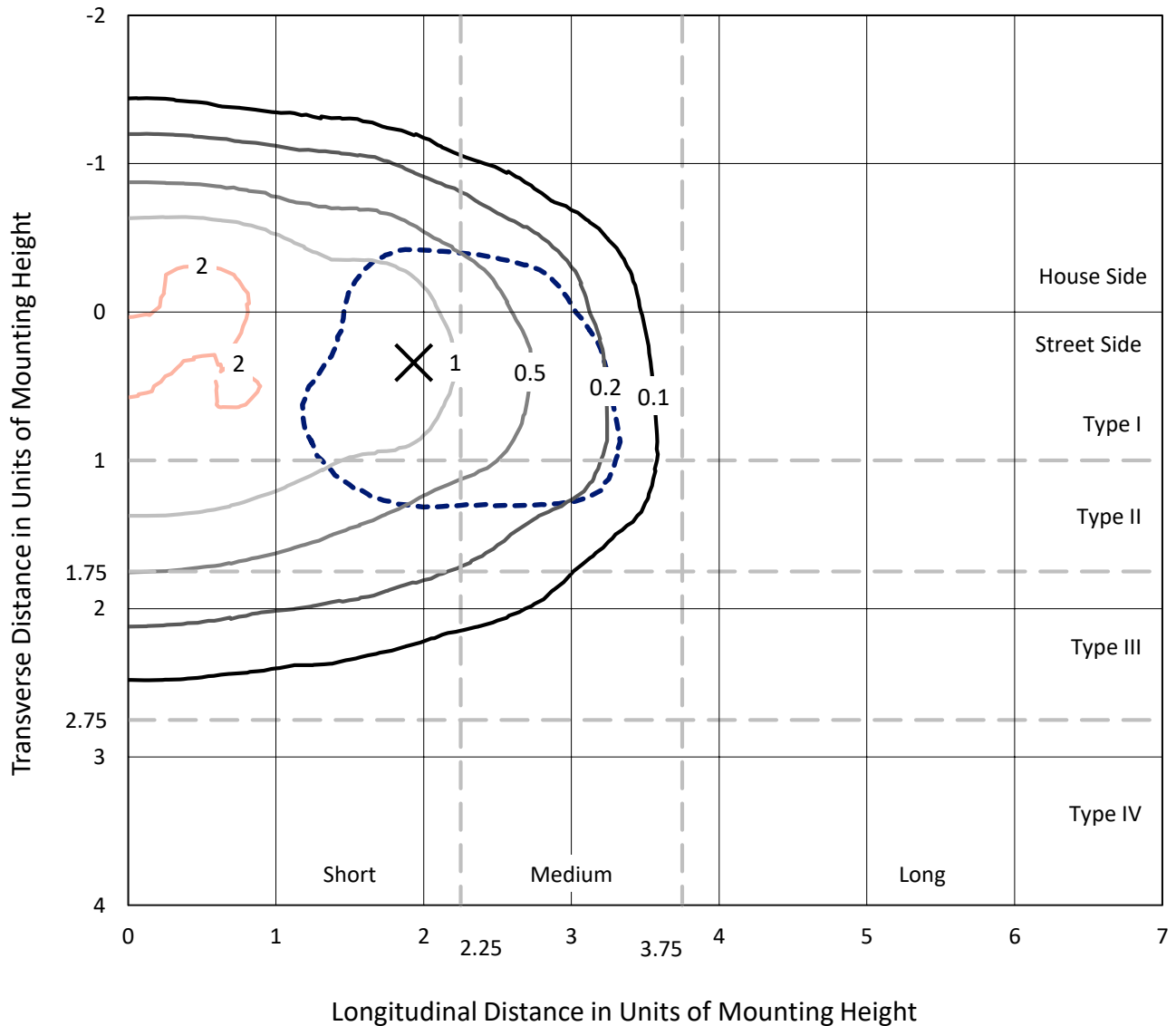
Input Watts (W): 5.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P173460
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

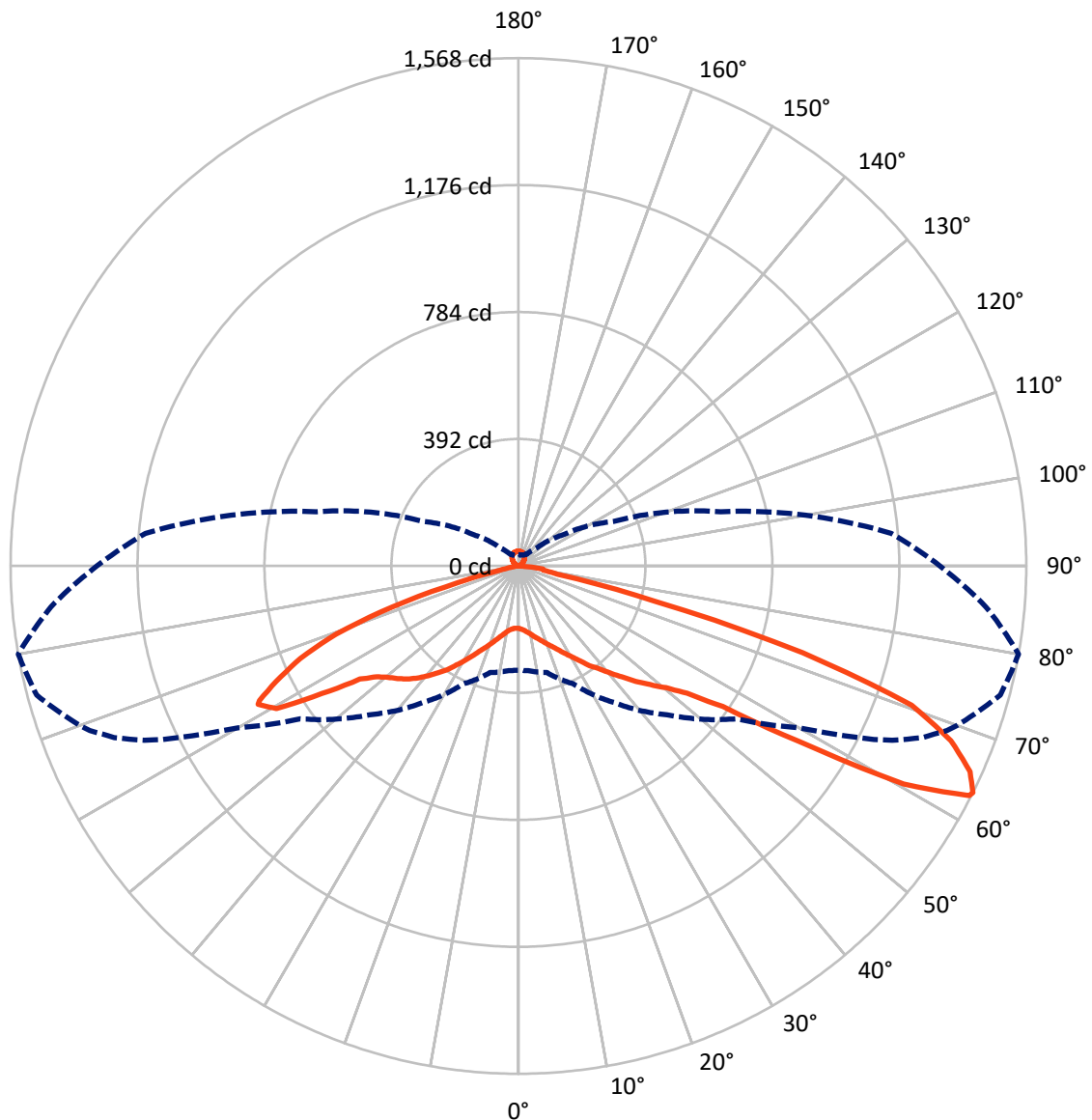


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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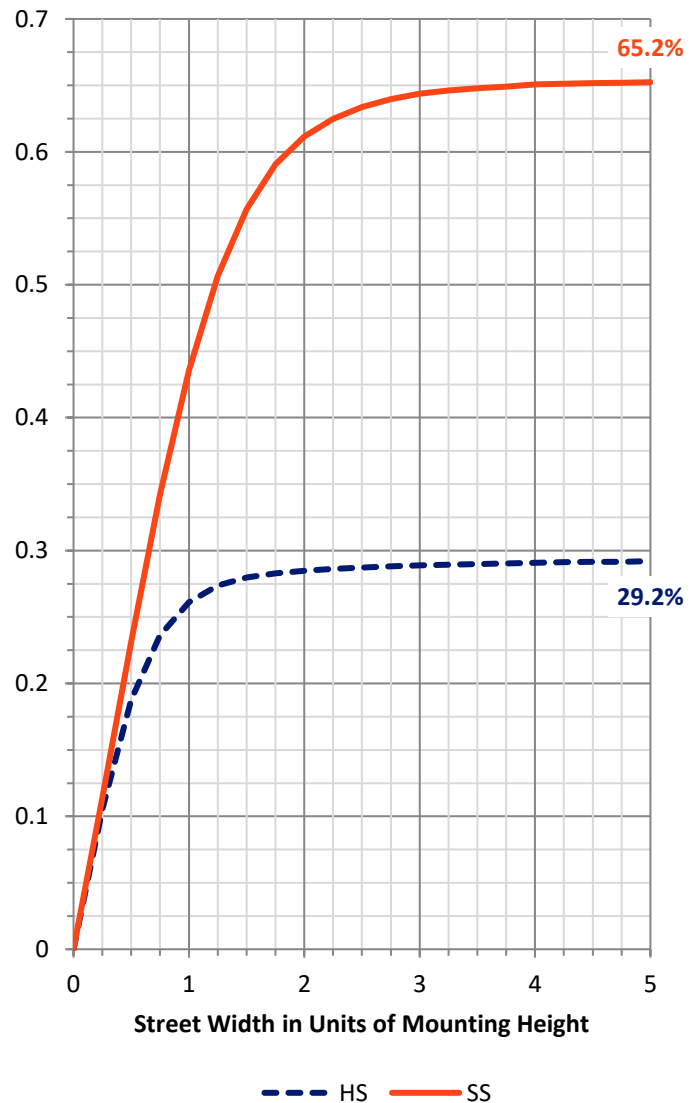
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 566.6 | 51.1 | 617.7 |
| | % Fixture | 29.5 | 2.7 | 32.1 |
| Street Side | Lumens | 1252.7 | 51.1 | 1303.8 |
| | % Fixture | 65.2 | 2.7 | 67.9 |
| Total | Lumens | 1819.3 | 102.1 | 1921.4 |
| | % Fixture | 94.7 | 5.3 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 19.3 | 1.0 |
| 10°-20° | 66.2 | 3.4 |
| 20°-30° | 124.5 | 6.5 |
| 30°-40° | 197.5 | 10.3 |
| 40°-50° | 298.2 | 15.5 |
| 50°-60° | 419.1 | 21.8 |
| 60°-70° | 489.0 | 25.4 |
| 70°-80° | 189.0 | 9.8 |
| 80°-90° | 16.4 | 0.9 |
| 90°-100° | 0.4 | 0.0 |
| 100°-110° | 4.0 | 0.2 |
| 110°-120° | 8.2 | 0.4 |
| 120°-130° | 13.9 | 0.7 |
| 130°-140° | 19.4 | 1.0 |
| 140°-150° | 21.2 | 1.1 |
| 150°-160° | 18.4 | 1.0 |
| 160°-170° | 12.4 | 0.6 |
| 170°-180° | 4.3 | 0.2 |
| 0°-90° | 1819.3 | 94.7 |
| 0°-180° | 1921.4 | 100.0 |



REPORT NUMBER: P173460

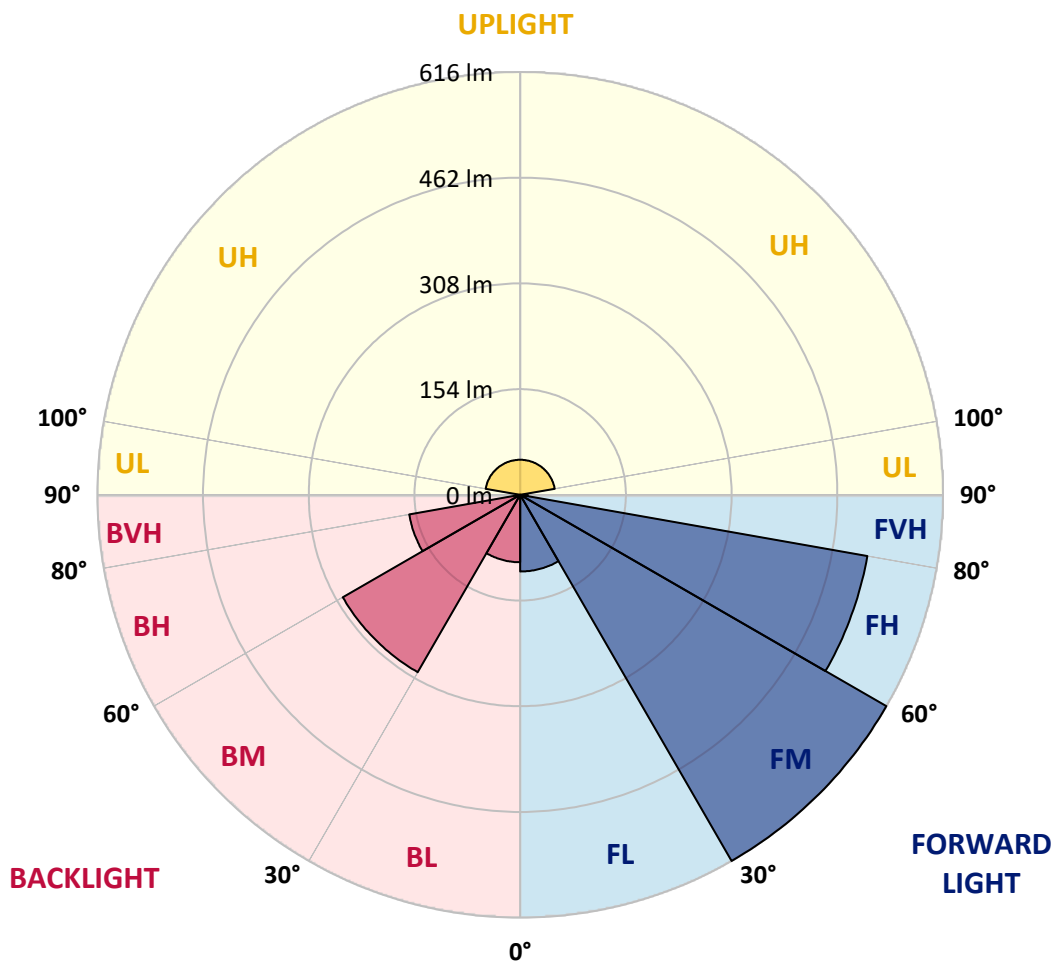
CATALOG NUMBER: ENT-EXX-LED-E1-BL2-7050-ULG-BBB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|--------|
| | | | B | U | G |
| FL (0°-30°) | 111.7 | 5.8 | | | |
| FM (30°-60°) | 616.2 | 32.1 | | | |
| FH (60°-80°) | 513.8 | 26.7 | | | G0/660 |
| FVH (80°-90°) | 11.0 | 0.6 | | | G1/100 |
| BL (0°-30°) | 98.3 | 5.1 | B0/110 | | |
| BM (30°-60°) | 298.6 | 15.5 | B1/1000 | | |
| BH (60°-80°) | 164.2 | 8.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.5 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.4 | 0.0 | | U1/10 | |
| UH (100°-180°) | 51.1 | 2.7 | | U3/500 | |

BUG Rating: B1-U3-G1

Type II Short





REPORT NUMBER: P173460

CATALOG NUMBER: ENT-EXX-LED-E1-BL2-7050-ULG-BBB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 |
| 2.5° | 202.3 | 201.6 | 202.0 | 201.6 | 201.6 | 201.0 | 199.0 | 199.0 | 198.7 | 199.0 | 198.3 |
| 5° | 213.3 | 212.9 | 212.6 | 212.0 | 212.0 | 210.6 | 207.3 | 206.6 | 207.0 | 206.3 | 205.0 |
| 7.5° | 225.6 | 225.2 | 224.6 | 223.2 | 222.6 | 220.6 | 215.9 | 215.3 | 214.9 | 214.3 | 213.3 |
| 10° | 237.9 | 237.5 | 236.5 | 234.9 | 233.2 | 230.2 | 225.6 | 223.9 | 223.6 | 223.2 | 222.3 |
| 12.5° | 250.5 | 249.5 | 249.8 | 246.8 | 244.2 | 240.5 | 235.2 | 233.6 | 233.2 | 232.9 | 232.6 |
| 15° | 264.4 | 264.1 | 263.4 | 259.5 | 254.5 | 249.5 | 244.2 | 242.2 | 240.8 | 241.2 | 240.8 |
| 17.5° | 277.7 | 277.4 | 275.1 | 269.4 | 262.8 | 257.1 | 250.5 | 249.2 | 249.2 | 248.8 | 248.8 |
| 20° | 287.4 | 287.0 | 284.7 | 277.7 | 269.1 | 262.8 | 257.5 | 257.5 | 257.1 | 257.5 | 257.8 |
| 22.5° | 291.7 | 291.7 | 288.7 | 281.1 | 271.8 | 267.1 | 265.5 | 266.4 | 266.8 | 267.1 | 267.8 |
| 25° | 293.4 | 293.4 | 290.3 | 281.4 | 272.7 | 273.4 | 275.4 | 277.1 | 277.7 | 277.7 | 280.1 |
| 27.5° | 296.3 | 296.7 | 292.7 | 283.0 | 276.1 | 282.4 | 287.4 | 289.7 | 290.7 | 291.4 | 294.3 |
| 30° | 305.3 | 305.0 | 301.6 | 291.4 | 286.0 | 295.0 | 304.0 | 306.3 | 308.6 | 308.6 | 311.9 |
| 32.5° | 318.6 | 318.3 | 316.3 | 308.3 | 306.0 | 317.3 | 325.3 | 330.2 | 329.9 | 330.6 | 332.9 |
| 35° | 336.2 | 336.5 | 337.8 | 335.9 | 337.8 | 349.1 | 358.1 | 360.1 | 360.4 | 360.8 | 361.1 |
| 37.5° | 356.1 | 356.5 | 363.8 | 370.1 | 379.1 | 395.7 | 401.0 | 402.0 | 399.7 | 399.7 | 399.0 |
| 40° | 371.1 | 372.7 | 389.0 | 405.6 | 424.6 | 447.1 | 455.1 | 453.1 | 451.5 | 450.2 | 446.2 |
| 42.5° | 401.7 | 402.6 | 419.9 | 443.8 | 470.4 | 501.6 | 515.6 | 509.0 | 508.6 | 502.6 | 499.7 |
| 45° | 432.2 | 434.9 | 453.5 | 480.4 | 512.3 | 555.4 | 576.1 | 570.4 | 569.4 | 566.7 | 558.5 |
| 47.5° | 456.5 | 460.1 | 480.7 | 512.6 | 549.2 | 599.0 | 635.9 | 639.9 | 637.5 | 634.5 | 627.9 |
| 50° | 477.1 | 480.0 | 501.0 | 535.9 | 577.7 | 632.2 | 685.0 | 699.3 | 701.3 | 700.0 | 698.3 |
| 52.5° | 490.3 | 493.3 | 513.9 | 551.1 | 594.3 | 656.8 | 721.6 | 749.8 | 755.8 | 755.5 | 762.4 |
| 55° | 490.7 | 494.0 | 515.3 | 556.1 | 603.6 | 673.7 | 755.5 | 800.0 | 807.3 | 816.2 | 831.2 |
| 57.5° | 472.4 | 475.7 | 502.3 | 549.5 | 606.3 | 687.0 | 788.3 | 866.7 | 886.7 | 904.3 | 945.5 |
| 60° | 421.6 | 422.9 | 452.1 | 515.3 | 593.7 | 684.0 | 813.3 | 924.2 | 952.4 | 990.6 | 1057.1 |
| 62.5° | 343.5 | 346.2 | 364.1 | 425.6 | 534.9 | 657.8 | 823.2 | 988.3 | 1034.8 | 1090.7 | 1197.0 |
| 63° | 321.9 | 324.2 | 340.9 | 401.7 | 514.9 | 649.5 | 822.9 | 998.6 | 1049.8 | 1107.3 | 1221.9 |
| 65° | 248.5 | 249.2 | 261.4 | 307.3 | 422.6 | 589.0 | 805.0 | 984.0 | 1048.8 | 1115.9 | 1236.2 |
| 67.5° | 200.3 | 202.6 | 214.9 | 247.2 | 333.9 | 494.7 | 724.5 | 852.5 | 896.7 | 962.8 | 1105.9 |
| 70° | 156.8 | 160.8 | 172.4 | 209.0 | 284.7 | 398.3 | 609.6 | 711.6 | 738.9 | 770.4 | 892.0 |
| 72.5° | 103.6 | 104.6 | 106.6 | 126.9 | 198.7 | 310.0 | 507.3 | 576.7 | 587.4 | 609.9 | 669.4 |
| 75° | 48.8 | 52.5 | 55.5 | 65.8 | 96.0 | 203.0 | 367.8 | 409.6 | 422.3 | 445.8 | 467.4 |
| 77.5° | 21.3 | 20.9 | 22.2 | 30.2 | 50.5 | 90.4 | 228.9 | 302.7 | 307.0 | 301.6 | 292.4 |
| 80° | 6.6 | 7.0 | 7.3 | 8.0 | 16.0 | 43.2 | 99.0 | 203.3 | 224.6 | 238.9 | 234.9 |
| 82.5° | 0.7 | 0.3 | 1.0 | 2.0 | 3.3 | 6.3 | 37.2 | 95.3 | 119.9 | 147.2 | 182.1 |
| 85° | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.3 | 2.3 | 10.0 | 16.6 | 19.3 | 38.2 |
| 87.5° | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.0 | 1.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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 |



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CATALOG NUMBER: ENT-EXX-LED-E1-BL2-7050-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 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: P173460

CATALOG NUMBER: ENT-EXX-LED-E1-BL2-7050-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 |
| 2.5° | 198.0 | 198.0 | 197.3 | 197.7 | 197.3 | 197.3 | 196.7 | 196.0 | 195.7 | 194.0 | 193.0 |
| 5° | 205.0 | 205.0 | 204.7 | 204.0 | 204.0 | 203.6 | 202.0 | 200.3 | 199.3 | 197.3 | 195.4 |
| 7.5° | 212.9 | 212.6 | 212.0 | 211.3 | 211.3 | 211.0 | 208.6 | 207.0 | 205.0 | 202.0 | 199.7 |
| 10° | 222.3 | 221.9 | 221.3 | 220.3 | 220.3 | 219.9 | 217.6 | 214.9 | 213.3 | 209.6 | 206.6 |
| 12.5° | 232.2 | 231.2 | 230.9 | 230.2 | 229.5 | 229.5 | 227.6 | 224.9 | 223.6 | 219.6 | 216.6 |
| 15° | 240.5 | 239.8 | 239.5 | 239.2 | 238.9 | 238.2 | 236.5 | 234.2 | 233.2 | 229.9 | 227.6 |
| 17.5° | 248.5 | 248.5 | 248.8 | 248.2 | 247.8 | 247.2 | 246.2 | 245.5 | 244.5 | 241.5 | 240.2 |
| 20° | 257.8 | 257.8 | 258.5 | 258.1 | 257.8 | 258.8 | 258.5 | 258.1 | 258.1 | 255.5 | 254.5 |
| 22.5° | 268.8 | 268.4 | 269.4 | 269.1 | 269.4 | 270.4 | 271.8 | 271.1 | 272.4 | 270.8 | 270.1 |
| 25° | 281.4 | 281.1 | 282.1 | 282.7 | 283.4 | 284.0 | 286.7 | 287.4 | 289.0 | 288.7 | 287.4 |
| 27.5° | 295.7 | 296.0 | 296.3 | 298.0 | 299.0 | 299.6 | 303.3 | 305.3 | 308.6 | 307.3 | 308.6 |
| 30° | 312.3 | 314.0 | 315.3 | 316.9 | 317.3 | 317.9 | 323.9 | 325.9 | 327.6 | 328.6 | 330.6 |
| 32.5° | 335.2 | 336.2 | 336.5 | 338.5 | 339.2 | 340.2 | 346.5 | 349.1 | 351.5 | 351.8 | 355.5 |
| 35° | 363.1 | 363.8 | 364.8 | 365.8 | 367.1 | 366.4 | 373.8 | 377.7 | 380.7 | 381.0 | 385.1 |
| 37.5° | 400.0 | 397.6 | 398.6 | 397.3 | 395.3 | 395.3 | 397.6 | 401.7 | 405.0 | 407.6 | 411.6 |
| 40° | 444.2 | 442.5 | 442.2 | 439.2 | 435.9 | 432.9 | 431.5 | 433.9 | 436.5 | 438.9 | 443.8 |
| 42.5° | 494.7 | 493.0 | 487.4 | 485.4 | 479.7 | 476.4 | 467.4 | 468.4 | 473.1 | 474.4 | 477.4 |
| 45° | 553.8 | 547.8 | 545.8 | 533.5 | 531.2 | 526.6 | 509.6 | 508.3 | 512.3 | 512.6 | 510.6 |
| 47.5° | 621.2 | 616.9 | 612.3 | 603.6 | 594.7 | 587.0 | 561.1 | 547.5 | 551.8 | 551.5 | 541.8 |
| 50° | 694.7 | 694.0 | 687.0 | 681.4 | 673.4 | 662.4 | 616.2 | 591.4 | 594.7 | 591.7 | 574.1 |
| 52.5° | 764.8 | 762.8 | 762.4 | 758.1 | 755.1 | 751.5 | 695.3 | 652.5 | 644.8 | 638.5 | 615.9 |
| 55° | 838.5 | 843.5 | 840.2 | 847.2 | 852.5 | 851.8 | 828.5 | 765.8 | 726.9 | 721.9 | 687.3 |
| 57.5° | 961.4 | 973.4 | 989.3 | 990.0 | 1004.3 | 1024.9 | 1066.7 | 1021.6 | 924.2 | 904.9 | 858.8 |
| 60° | 1102.3 | 1133.2 | 1173.1 | 1192.6 | 1223.2 | 1255.1 | 1360.1 | 1367.1 | 1230.8 | 1156.4 | 1071.7 |
| 62.5° | 1243.8 | 1284.3 | 1331.5 | 1362.1 | 1399.9 | 1424.9 | 1535.8 | 1562.4 | 1438.2 | 1300.9 | 1161.4 |
| 63° | 1273.7 | 1315.3 | 1356.1 | 1386.0 | 1417.9 | 1440.8 | 1540.5 | 1568.4 | 1449.5 | 1301.3 | 1155.8 |
| 65° | 1289.3 | 1328.2 | 1360.1 | 1386.7 | 1407.9 | 1423.6 | 1502.3 | 1532.5 | 1434.5 | 1253.1 | 1092.3 |
| 67.5° | 1170.7 | 1233.2 | 1273.4 | 1305.6 | 1327.2 | 1348.8 | 1421.2 | 1440.2 | 1370.7 | 1159.4 | 996.0 |
| 70° | 969.1 | 1041.2 | 1104.6 | 1154.8 | 1192.0 | 1224.9 | 1300.9 | 1288.0 | 1228.2 | 1007.6 | 844.8 |
| 72.5° | 712.9 | 775.7 | 837.5 | 894.3 | 942.8 | 984.7 | 1034.8 | 917.6 | 826.6 | 670.1 | 584.7 |
| 75° | 479.4 | 493.0 | 521.3 | 549.5 | 567.1 | 579.0 | 548.2 | 436.9 | 354.8 | 318.3 | 278.4 |
| 77.5° | 283.0 | 273.7 | 274.7 | 267.8 | 263.1 | 262.1 | 219.9 | 122.3 | 64.5 | 65.8 | 69.1 |
| 80° | 225.9 | 215.6 | 204.7 | 192.3 | 184.4 | 175.7 | 143.2 | 78.4 | 27.9 | 22.6 | 23.6 |
| 82.5° | 182.7 | 180.0 | 174.1 | 161.5 | 148.8 | 133.9 | 102.3 | 75.4 | 16.0 | 12.6 | 13.6 |
| 85° | 35.5 | 39.9 | 35.9 | 39.2 | 29.2 | 27.6 | 16.3 | 17.6 | 6.3 | 5.6 | 7.0 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 2.7 |
| 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 |



REPORT NUMBER: P173460

CATALOG NUMBER: ENT-EXX-LED-E1-BL2-7050-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 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: P173460

CATALOG NUMBER: ENT-EXX-LED-E1-BL2-7050-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 |
| 2.5° | 191.3 | 190.0 | 189.0 | 187.7 | 187.0 | 186.0 | 185.7 | 184.7 | 185.0 |
| 5° | 192.0 | 189.7 | 187.7 | 185.7 | 184.4 | 183.7 | 183.1 | 182.4 | 182.4 |
| 7.5° | 195.4 | 192.3 | 190.0 | 187.7 | 186.7 | 185.4 | 185.0 | 184.1 | 184.1 |
| 10° | 202.3 | 199.0 | 196.0 | 193.4 | 192.0 | 190.4 | 189.7 | 188.7 | 188.7 |
| 12.5° | 212.6 | 209.6 | 206.3 | 202.3 | 199.7 | 197.7 | 196.0 | 195.4 | 195.4 |
| 15° | 224.2 | 221.9 | 219.3 | 213.9 | 209.6 | 206.0 | 202.6 | 201.3 | 201.0 |
| 17.5° | 238.2 | 236.2 | 233.6 | 227.6 | 220.6 | 212.9 | 207.3 | 204.7 | 204.3 |
| 20° | 255.1 | 253.1 | 249.2 | 240.8 | 229.9 | 217.9 | 209.0 | 205.0 | 204.7 |
| 22.5° | 272.4 | 272.4 | 265.8 | 252.1 | 235.9 | 219.9 | 208.0 | 202.6 | 201.6 |
| 25° | 291.4 | 292.4 | 282.4 | 261.1 | 239.2 | 218.9 | 203.6 | 197.0 | 195.7 |
| 27.5° | 314.3 | 313.3 | 296.7 | 268.1 | 239.5 | 214.9 | 196.7 | 188.7 | 187.4 |
| 30° | 339.5 | 332.9 | 308.3 | 272.1 | 237.2 | 207.6 | 187.4 | 178.4 | 177.4 |
| 32.5° | 364.8 | 350.5 | 316.9 | 272.7 | 230.6 | 197.0 | 175.1 | 165.8 | 164.4 |
| 35° | 391.7 | 366.1 | 322.2 | 269.1 | 219.6 | 182.7 | 159.8 | 150.8 | 149.5 |
| 37.5° | 414.3 | 378.1 | 323.9 | 259.5 | 203.0 | 166.1 | 145.9 | 136.5 | 134.2 |
| 40° | 434.9 | 386.7 | 320.9 | 243.9 | 184.4 | 149.8 | 131.2 | 123.3 | 122.6 |
| 42.5° | 453.8 | 390.7 | 310.3 | 223.6 | 165.8 | 135.9 | 118.9 | 111.3 | 110.6 |
| 45° | 468.4 | 388.0 | 292.4 | 201.3 | 150.5 | 123.9 | 108.0 | 101.0 | 99.7 |
| 47.5° | 477.7 | 378.4 | 267.8 | 182.7 | 137.9 | 111.6 | 96.0 | 88.7 | 87.4 |
| 50° | 485.0 | 364.1 | 242.9 | 168.4 | 125.6 | 99.0 | 83.7 | 77.1 | 76.1 |
| 52.5° | 494.7 | 345.8 | 221.3 | 155.5 | 111.3 | 84.7 | 71.1 | 64.8 | 63.8 |
| 55° | 515.9 | 330.2 | 206.0 | 141.2 | 96.0 | 69.8 | 58.5 | 54.5 | 53.2 |
| 57.5° | 588.0 | 335.5 | 196.3 | 123.9 | 78.4 | 56.1 | 48.5 | 46.2 | 45.8 |
| 60° | 663.8 | 358.1 | 191.7 | 104.0 | 60.8 | 45.5 | 41.2 | 40.5 | 40.2 |
| 62.5° | 659.8 | 337.8 | 172.4 | 81.7 | 46.8 | 37.5 | 35.5 | 35.9 | 35.9 |
| 63° | 646.5 | 325.6 | 166.1 | 76.7 | 44.5 | 36.6 | 34.5 | 34.5 | 34.5 |
| 65° | 566.1 | 276.1 | 134.9 | 58.1 | 37.2 | 32.6 | 30.9 | 31.2 | 31.6 |
| 67.5° | 467.4 | 199.3 | 88.7 | 40.5 | 33.5 | 29.6 | 27.6 | 26.9 | 26.9 |
| 70° | 357.5 | 134.2 | 52.5 | 35.2 | 33.2 | 27.6 | 24.2 | 23.6 | 23.6 |
| 72.5° | 234.5 | 82.0 | 35.5 | 35.2 | 32.9 | 26.3 | 22.6 | 21.3 | 21.3 |
| 75° | 107.7 | 40.5 | 29.6 | 33.9 | 31.2 | 24.2 | 19.9 | 18.3 | 17.9 |
| 77.5° | 41.9 | 25.6 | 26.6 | 28.6 | 24.2 | 19.9 | 17.9 | 16.6 | 16.3 |
| 80° | 24.2 | 20.6 | 23.2 | 20.6 | 17.6 | 15.3 | 15.3 | 14.3 | 14.0 |
| 82.5° | 17.6 | 17.6 | 17.9 | 15.0 | 13.3 | 12.6 | 12.6 | 11.6 | 11.3 |
| 85° | 12.6 | 13.0 | 15.0 | 11.9 | 10.3 | 9.0 | 8.3 | 8.3 | 8.0 |
| 87.5° | 6.3 | 10.3 | 8.3 | 5.0 | 4.7 | 4.3 | 4.3 | 4.3 | 4.0 |
| 90° | 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 |
| 95° | 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 |
| 100° | 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 |
| 105° | 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 |



REPORT NUMBER: P173460

CATALOG NUMBER: ENT-EXX-LED-E1-BL2-7050-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 112.5° | 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 |
| 117.5° | 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 |
| 122.5° | 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 |
| 127.5° | 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 |
| 132.5° | 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 |
| 137.5° | 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 |
| 142.5° | 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 |
| 147.5° | 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 |
| 152.5° | 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 |
| 157.5° | 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 |
| 162.5° | 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 |
| 167.5° | 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 |
| 172.5° | 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 |
| 177.5° | 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 |

(END OF REPORT)