

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: P173248

Luminaire Tested: **ENC-EXX-LED-E1-BL3-8030-ULG-BBB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173248
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: ENC-EXX-LED-E1-BL3-8030-ULG-BBB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1579 lumens
Efficiency: N/A
Efficacy: 287.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-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

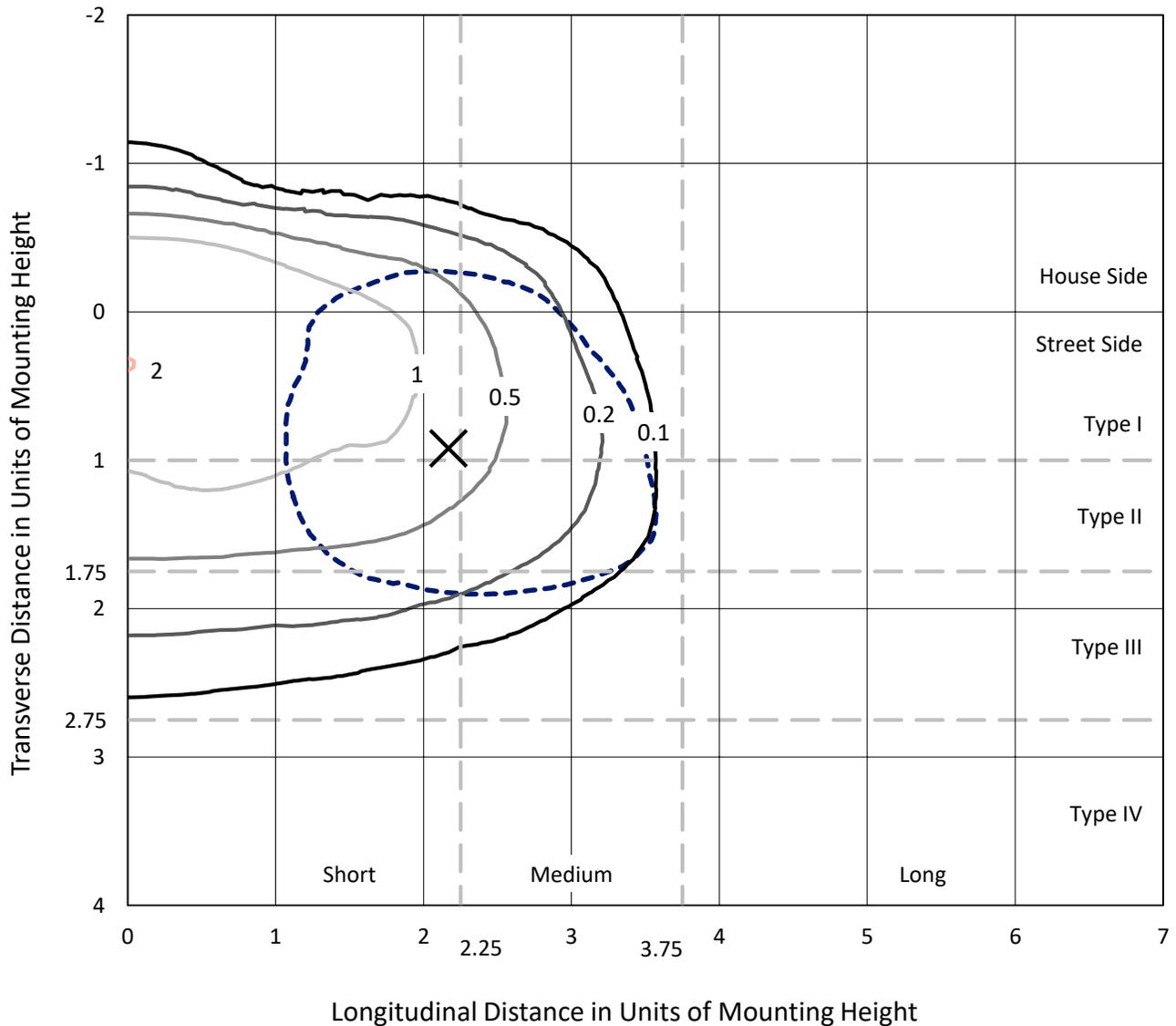


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

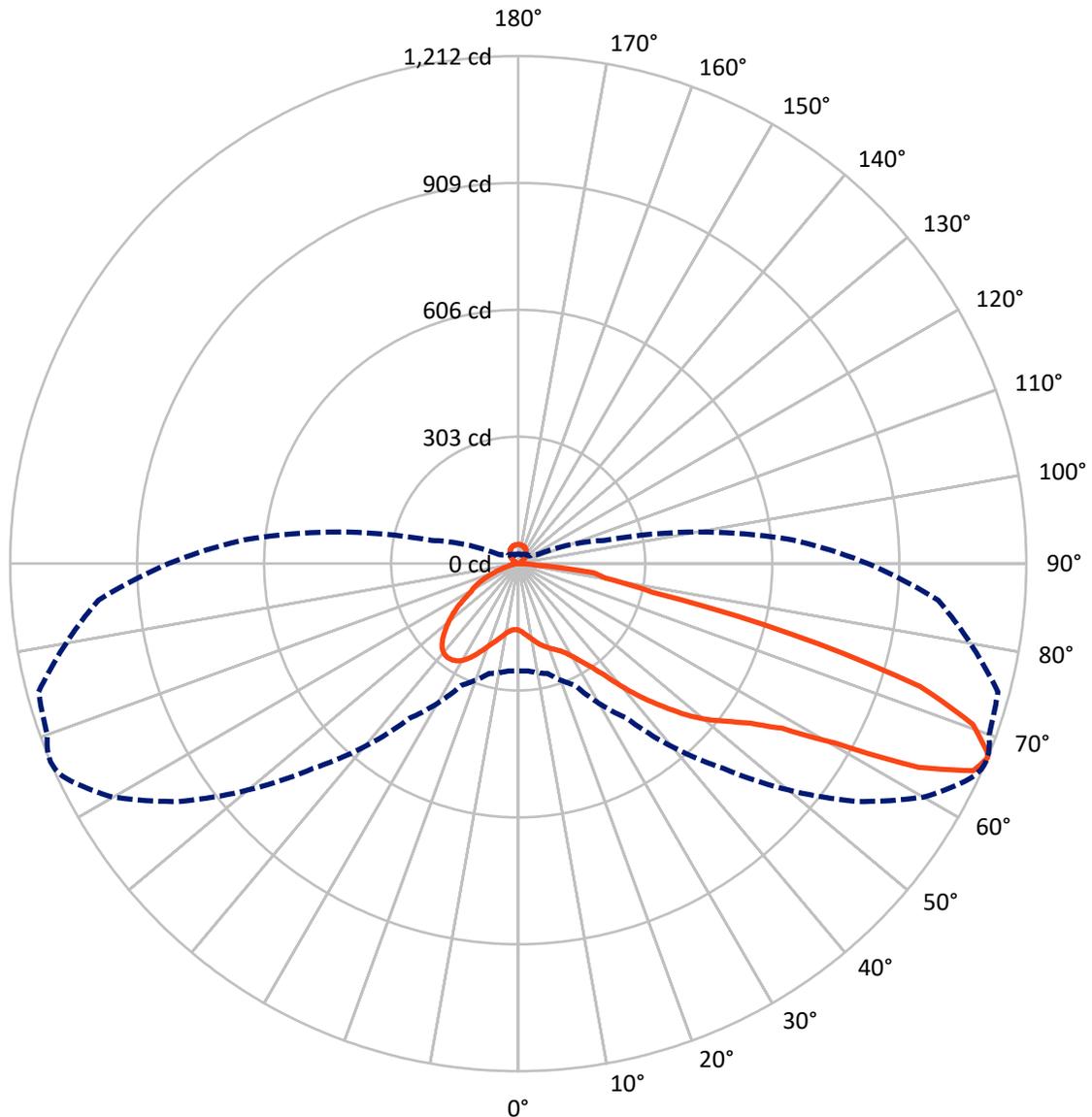


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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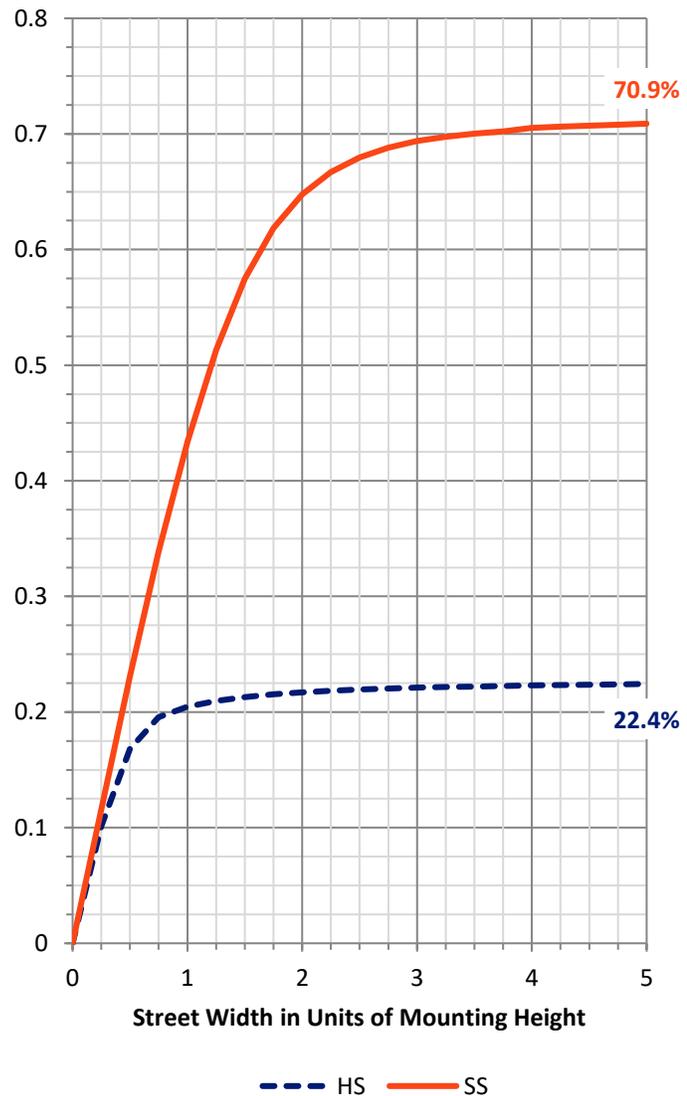
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 358.6 | 51.1 | 409.7 |
| | % Fixture | 22.7 | 3.2 | 25.9 |
| Street Side | Lumens | 1118.3 | 51.1 | 1169.4 |
| | % Fixture | 70.8 | 3.2 | 74.1 |
| Total | Lumens | 1476.9 | 102.1 | 1579.0 |
| | % Fixture | 93.5 | 6.5 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 16.0 | 1.0 |
| 10°-20° | 55.4 | 3.5 |
| 20°-30° | 100.5 | 6.4 |
| 30°-40° | 146.9 | 9.3 |
| 40°-50° | 222.6 | 14.1 |
| 50°-60° | 319.2 | 20.2 |
| 60°-70° | 407.9 | 25.8 |
| 70°-80° | 190.4 | 12.1 |
| 80°-90° | 17.8 | 1.1 |
| 90°-100° | 0.4 | 0.0 |
| 100°-110° | 4.0 | 0.3 |
| 110°-120° | 8.2 | 0.5 |
| 120°-130° | 13.9 | 0.9 |
| 130°-140° | 19.4 | 1.2 |
| 140°-150° | 21.2 | 1.3 |
| 150°-160° | 18.4 | 1.2 |
| 160°-170° | 12.4 | 0.8 |
| 170°-180° | 4.3 | 0.3 |
| 0°-90° | 1476.9 | 93.5 |
| 0°-180° | 1579.0 | 100.0 |



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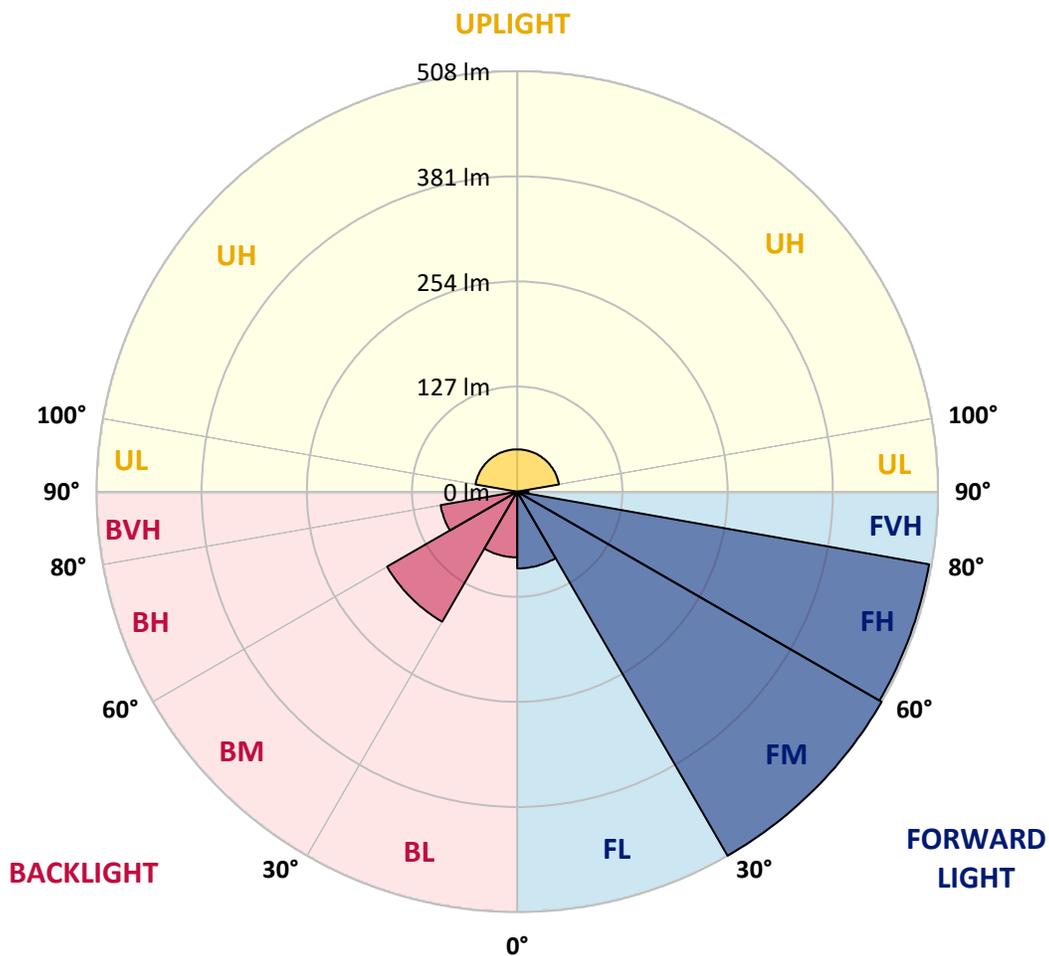
CATALOG NUMBER: ENC-EXX-LED-E1-BL3-8030-ULG-BBB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 92.6 | 5.9 | | | |
| FM | (30°-60°) | 507.6 | 32.1 | | | |
| FH | (60°-80°) | 504.6 | 32.0 | | | G0/660 |
| FVH | (80°-90°) | 13.5 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 79.3 | 5.0 | B0/110 | | |
| BM | (30°-60°) | 181.1 | 11.5 | B0/220 | | |
| BH | (60°-80°) | 93.8 | 5.9 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 4.3 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 0.4 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 51.1 | 3.2 | | U3/500 | |

BUG Rating: B0-U3-G1

Type III Short





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CATALOG NUMBER: ENC-EXX-LED-E1-BL3-8030-ULG-BBB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 |
| 2.5° | 165.3 | 165.3 | 165.6 | 165.6 | 165.3 | 165.3 | 163.7 | 163.7 | 163.7 | 163.4 | 163.4 |
| 5° | 174.3 | 174.6 | 174.6 | 174.3 | 173.8 | 172.7 | 170.5 | 170.5 | 170.5 | 170.2 | 169.7 |
| 7.5° | 184.7 | 184.4 | 184.7 | 183.9 | 182.8 | 181.4 | 178.4 | 178.2 | 177.6 | 177.6 | 177.1 |
| 10° | 196.2 | 195.4 | 196.2 | 195.1 | 192.9 | 190.5 | 186.9 | 185.8 | 185.8 | 185.8 | 184.7 |
| 12.5° | 208.0 | 207.7 | 208.2 | 206.3 | 202.5 | 199.8 | 196.2 | 194.8 | 194.5 | 194.5 | 194.0 |
| 15° | 220.8 | 220.5 | 218.9 | 215.9 | 211.0 | 208.5 | 204.4 | 202.7 | 202.5 | 202.5 | 201.7 |
| 17.5° | 234.2 | 234.2 | 230.1 | 223.8 | 217.0 | 213.4 | 210.4 | 209.3 | 209.1 | 209.1 | 208.8 |
| 20° | 245.6 | 245.6 | 240.2 | 229.8 | 220.0 | 216.1 | 215.0 | 215.0 | 215.0 | 215.0 | 215.3 |
| 22.5° | 254.1 | 253.3 | 245.9 | 233.1 | 221.1 | 217.8 | 220.5 | 220.8 | 220.8 | 221.3 | 221.6 |
| 25° | 257.9 | 257.7 | 248.9 | 233.6 | 220.8 | 220.3 | 226.2 | 227.1 | 227.6 | 228.2 | 229.0 |
| 27.5° | 258.2 | 258.2 | 249.5 | 233.4 | 220.5 | 224.6 | 233.4 | 235.8 | 236.4 | 237.4 | 238.8 |
| 30° | 255.5 | 255.8 | 248.4 | 233.1 | 222.4 | 232.8 | 244.6 | 249.2 | 250.3 | 252.0 | 254.1 |
| 32.5° | 252.2 | 252.8 | 248.4 | 235.8 | 230.9 | 247.0 | 262.6 | 269.1 | 270.2 | 272.4 | 274.6 |
| 35° | 252.8 | 253.6 | 254.4 | 246.7 | 249.8 | 271.3 | 293.7 | 297.6 | 297.3 | 300.8 | 301.9 |
| 37.5° | 256.3 | 258.2 | 264.2 | 265.6 | 277.1 | 307.1 | 330.6 | 338.8 | 338.8 | 342.1 | 341.0 |
| 40° | 256.9 | 259.9 | 274.9 | 290.7 | 313.4 | 350.3 | 382.6 | 392.1 | 392.1 | 393.5 | 393.0 |
| 42.5° | 269.7 | 272.4 | 294.0 | 322.2 | 354.4 | 397.9 | 433.4 | 441.8 | 443.7 | 442.4 | 443.5 |
| 45° | 292.9 | 294.9 | 321.3 | 356.9 | 394.0 | 443.5 | 483.1 | 491.3 | 493.2 | 491.9 | 490.2 |
| 47.5° | 322.4 | 325.2 | 353.3 | 395.4 | 433.6 | 485.6 | 533.9 | 543.5 | 545.4 | 543.2 | 544.1 |
| 50° | 347.0 | 352.2 | 382.3 | 432.0 | 471.9 | 521.6 | 573.3 | 586.4 | 588.0 | 588.0 | 588.6 |
| 52.5° | 369.4 | 374.1 | 403.1 | 458.5 | 502.8 | 554.2 | 602.5 | 619.5 | 621.4 | 622.8 | 623.8 |
| 55° | 378.7 | 383.4 | 412.3 | 470.0 | 521.6 | 584.5 | 636.4 | 659.1 | 660.2 | 663.7 | 668.4 |
| 57.5° | 379.0 | 382.8 | 411.2 | 469.7 | 531.5 | 611.8 | 682.6 | 717.8 | 722.2 | 726.8 | 734.8 |
| 60° | 353.3 | 358.0 | 386.4 | 456.1 | 539.7 | 642.4 | 752.6 | 817.3 | 823.6 | 837.0 | 854.5 |
| 62.5° | 314.5 | 317.8 | 342.4 | 411.0 | 539.7 | 684.8 | 865.1 | 972.2 | 993.3 | 1015.1 | 1047.4 |
| 65° | 278.4 | 280.9 | 296.5 | 355.8 | 501.4 | 719.2 | 982.9 | 1106.1 | 1128.8 | 1145.2 | 1172.5 |
| 67° | 256.0 | 257.1 | 271.9 | 320.3 | 450.1 | 691.6 | 990.8 | 1115.4 | 1134.8 | 1151.8 | 1186.2 |
| 67.5° | 248.4 | 249.2 | 263.2 | 311.2 | 434.2 | 674.9 | 978.8 | 1107.8 | 1128.8 | 1146.0 | 1181.0 |
| 70° | 191.0 | 188.6 | 200.6 | 244.8 | 350.9 | 538.6 | 859.4 | 1008.0 | 1032.1 | 1055.0 | 1097.4 |
| 72.5° | 113.9 | 110.4 | 118.0 | 142.1 | 227.3 | 378.4 | 651.7 | 827.1 | 857.7 | 886.4 | 941.9 |
| 75° | 68.6 | 68.9 | 74.6 | 91.3 | 124.1 | 238.0 | 421.1 | 538.3 | 567.0 | 594.0 | 637.8 |
| 77.5° | 34.2 | 33.9 | 39.1 | 53.0 | 90.5 | 147.8 | 244.6 | 310.4 | 320.0 | 332.8 | 327.6 |
| 80° | 10.9 | 10.7 | 11.5 | 14.5 | 32.5 | 99.2 | 153.9 | 194.8 | 199.2 | 201.7 | 204.7 |
| 82.5° | 1.7 | 1.9 | 2.2 | 3.6 | 6.0 | 23.8 | 95.6 | 135.5 | 141.5 | 148.6 | 162.3 |
| 85° | 0.0 | 0.0 | 0.3 | 0.3 | 0.8 | 1.9 | 9.0 | 23.2 | 24.3 | 29.5 | 34.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.8 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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 |



REPORT NUMBER: P173248

CATALOG NUMBER: ENC-EXX-LED-E1-BL3-8030-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 |



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CATALOG NUMBER: ENC-EXX-LED-E1-BL3-8030-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 |
| 2.5° | 163.1 | 163.1 | 162.9 | 162.6 | 162.6 | 162.6 | 162.0 | 161.8 | 160.1 | 159.6 | 158.5 |
| 5° | 169.7 | 169.7 | 169.1 | 168.9 | 168.6 | 168.6 | 167.8 | 166.1 | 164.0 | 162.6 | 160.4 |
| 7.5° | 176.8 | 176.5 | 176.0 | 176.0 | 174.9 | 174.9 | 173.8 | 170.8 | 168.6 | 166.7 | 164.0 |
| 10° | 185.0 | 184.7 | 183.9 | 183.6 | 183.1 | 182.5 | 181.4 | 177.9 | 175.7 | 173.2 | 170.0 |
| 12.5° | 194.0 | 193.4 | 192.9 | 192.6 | 192.1 | 191.5 | 190.5 | 187.2 | 185.0 | 182.5 | 178.7 |
| 15° | 201.9 | 201.7 | 201.1 | 200.8 | 200.8 | 200.3 | 199.5 | 196.5 | 194.3 | 191.5 | 188.6 |
| 17.5° | 209.1 | 208.8 | 208.5 | 208.5 | 208.2 | 208.2 | 208.0 | 205.2 | 203.8 | 201.7 | 198.7 |
| 20° | 215.0 | 215.3 | 215.3 | 215.3 | 215.6 | 215.9 | 216.4 | 215.0 | 213.7 | 211.8 | 210.1 |
| 22.5° | 221.6 | 221.9 | 222.7 | 222.7 | 223.2 | 223.5 | 225.4 | 225.1 | 224.6 | 223.2 | 221.9 |
| 25° | 229.5 | 230.1 | 230.6 | 231.5 | 231.7 | 232.5 | 235.8 | 237.2 | 236.1 | 235.3 | 236.6 |
| 27.5° | 239.9 | 241.0 | 241.6 | 242.7 | 243.2 | 244.3 | 249.2 | 252.2 | 251.4 | 251.7 | 254.7 |
| 30° | 255.5 | 256.6 | 258.2 | 258.8 | 260.7 | 261.2 | 267.0 | 271.6 | 271.6 | 271.1 | 276.5 |
| 32.5° | 276.3 | 277.1 | 279.0 | 280.3 | 281.4 | 282.5 | 288.0 | 292.9 | 293.5 | 295.1 | 297.3 |
| 35° | 303.6 | 304.1 | 305.2 | 307.4 | 307.1 | 307.7 | 310.7 | 315.6 | 318.3 | 322.2 | 315.6 |
| 37.5° | 339.7 | 341.6 | 341.0 | 341.3 | 339.1 | 340.5 | 341.6 | 346.7 | 352.5 | 356.3 | 330.9 |
| 40° | 391.0 | 392.4 | 391.0 | 389.1 | 387.5 | 386.6 | 385.0 | 390.7 | 395.7 | 393.0 | 342.9 |
| 42.5° | 441.0 | 441.6 | 440.5 | 437.2 | 435.8 | 433.1 | 428.7 | 435.8 | 438.6 | 425.7 | 349.2 |
| 45° | 490.5 | 489.7 | 487.7 | 487.2 | 484.5 | 481.8 | 479.3 | 483.9 | 482.8 | 457.7 | 352.0 |
| 47.5° | 542.4 | 541.6 | 540.2 | 538.0 | 535.0 | 534.5 | 532.3 | 531.7 | 523.8 | 485.0 | 350.6 |
| 50° | 587.8 | 588.3 | 585.3 | 586.4 | 585.0 | 582.3 | 580.4 | 581.5 | 562.6 | 509.1 | 347.9 |
| 52.5° | 626.8 | 626.8 | 625.5 | 626.8 | 626.3 | 624.9 | 626.6 | 644.3 | 605.2 | 542.9 | 343.7 |
| 55° | 672.2 | 673.8 | 672.7 | 674.1 | 674.9 | 677.9 | 684.8 | 726.3 | 668.9 | 584.5 | 334.4 |
| 57.5° | 738.6 | 742.7 | 741.6 | 747.1 | 752.0 | 759.9 | 784.8 | 828.5 | 747.9 | 630.1 | 316.2 |
| 60° | 857.7 | 871.1 | 870.6 | 880.1 | 890.0 | 899.0 | 942.4 | 950.9 | 837.2 | 689.7 | 302.5 |
| 62.5° | 1056.1 | 1067.1 | 1071.7 | 1082.1 | 1088.4 | 1090.0 | 1125.0 | 1062.9 | 917.0 | 743.8 | 294.9 |
| 65° | 1184.5 | 1188.9 | 1193.0 | 1191.6 | 1187.8 | 1181.5 | 1183.7 | 1052.6 | 890.5 | 709.1 | 253.0 |
| 67° | 1199.9 | 1208.9 | 1212.1 | 1210.0 | 1204.2 | 1195.5 | 1184.8 | 1005.6 | 834.2 | 655.0 | 213.9 |
| 67.5° | 1195.5 | 1204.8 | 1207.8 | 1205.9 | 1200.9 | 1194.4 | 1181.8 | 987.8 | 815.1 | 637.5 | 203.8 |
| 70° | 1125.3 | 1138.6 | 1150.9 | 1155.0 | 1155.3 | 1154.2 | 1141.7 | 862.4 | 693.8 | 535.3 | 154.7 |
| 72.5° | 959.4 | 976.6 | 1002.3 | 994.1 | 1007.2 | 998.7 | 970.1 | 589.4 | 475.4 | 382.6 | 108.5 |
| 75° | 647.3 | 655.0 | 675.8 | 652.0 | 654.2 | 639.1 | 527.6 | 342.4 | 294.9 | 248.9 | 65.3 |
| 77.5° | 325.7 | 330.6 | 327.4 | 313.1 | 307.7 | 295.4 | 228.4 | 74.3 | 74.3 | 88.5 | 34.2 |
| 80° | 206.6 | 208.5 | 210.7 | 213.9 | 218.1 | 218.6 | 158.5 | 21.9 | 19.7 | 20.5 | 18.6 |
| 82.5° | 169.4 | 174.6 | 181.4 | 182.8 | 184.4 | 185.8 | 109.3 | 12.0 | 9.8 | 10.9 | 13.1 |
| 85° | 39.3 | 42.6 | 40.7 | 36.1 | 38.5 | 29.8 | 15.3 | 4.9 | 4.4 | 5.5 | 9.0 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.1 | 1.9 | 4.6 |
| 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: P173248

CATALOG NUMBER: ENC-EXX-LED-E1-BL3-8030-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 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: P173248

CATALOG NUMBER: ENC-EXX-LED-E1-BL3-8030-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 | 159.0 |
| 2.5° | 157.4 | 156.6 | 155.5 | 155.2 | 154.9 | 154.4 | 154.1 | 153.9 |
| 5° | 158.2 | 156.6 | 154.9 | 153.9 | 153.3 | 152.8 | 152.2 | 152.2 |
| 7.5° | 161.5 | 159.6 | 157.1 | 156.0 | 154.9 | 154.1 | 153.6 | 153.6 |
| 10° | 167.0 | 164.8 | 161.8 | 160.4 | 159.0 | 158.2 | 157.7 | 157.1 |
| 12.5° | 175.2 | 172.4 | 168.9 | 166.7 | 165.3 | 165.1 | 164.5 | 164.2 |
| 15° | 185.3 | 182.2 | 178.4 | 176.3 | 174.1 | 173.5 | 173.0 | 172.7 |
| 17.5° | 195.4 | 192.9 | 189.9 | 186.1 | 181.7 | 178.2 | 176.5 | 176.3 |
| 20° | 206.9 | 205.8 | 201.1 | 192.6 | 183.1 | 175.7 | 172.7 | 172.7 |
| 22.5° | 221.3 | 218.3 | 207.1 | 192.1 | 177.9 | 167.5 | 163.4 | 163.4 |
| 25° | 237.2 | 227.1 | 206.3 | 186.1 | 168.6 | 155.8 | 150.3 | 150.3 |
| 27.5° | 251.1 | 229.5 | 201.4 | 176.0 | 154.7 | 140.7 | 134.4 | 134.2 |
| 30° | 262.1 | 228.2 | 192.6 | 161.8 | 138.3 | 122.4 | 115.3 | 115.3 |
| 32.5° | 268.1 | 223.5 | 180.6 | 145.1 | 118.3 | 100.3 | 91.5 | 91.8 |
| 35° | 269.7 | 215.6 | 164.8 | 123.0 | 94.3 | 76.5 | 68.6 | 68.6 |
| 37.5° | 268.1 | 203.0 | 145.1 | 98.7 | 70.5 | 57.9 | 51.9 | 51.4 |
| 40° | 262.6 | 184.2 | 118.9 | 72.1 | 52.4 | 45.1 | 42.6 | 42.1 |
| 42.5° | 251.7 | 161.5 | 89.4 | 51.6 | 42.1 | 39.1 | 38.5 | 38.3 |
| 45° | 234.4 | 130.9 | 62.0 | 40.4 | 37.7 | 36.9 | 36.9 | 36.6 |
| 47.5° | 212.9 | 100.0 | 44.3 | 35.8 | 35.5 | 35.5 | 35.5 | 35.5 |
| 50° | 188.8 | 70.8 | 36.1 | 33.9 | 33.6 | 34.2 | 34.4 | 34.4 |
| 52.5° | 164.0 | 49.5 | 33.1 | 32.5 | 32.0 | 32.8 | 33.1 | 33.1 |
| 55° | 136.9 | 38.8 | 31.7 | 31.1 | 30.3 | 30.6 | 31.1 | 31.1 |
| 57.5° | 109.0 | 34.4 | 31.1 | 30.3 | 28.7 | 28.7 | 29.2 | 29.2 |
| 60° | 86.6 | 33.1 | 30.9 | 29.0 | 26.8 | 26.8 | 27.3 | 27.6 |
| 62.5° | 72.4 | 32.8 | 30.9 | 27.6 | 26.0 | 25.1 | 25.7 | 25.7 |
| 65° | 60.4 | 32.8 | 30.0 | 27.6 | 24.6 | 23.5 | 24.1 | 24.1 |
| 67° | 50.5 | 32.2 | 29.5 | 27.6 | 24.1 | 22.7 | 22.7 | 22.7 |
| 67.5° | 47.8 | 32.0 | 29.8 | 27.6 | 23.8 | 22.4 | 22.1 | 22.1 |
| 70° | 35.8 | 29.0 | 29.8 | 27.9 | 23.2 | 20.5 | 19.9 | 19.9 |
| 72.5° | 27.9 | 26.5 | 29.0 | 28.7 | 22.7 | 18.8 | 17.8 | 17.5 |
| 75° | 22.7 | 24.1 | 29.2 | 27.9 | 21.3 | 17.2 | 15.6 | 15.3 |
| 77.5° | 19.4 | 20.5 | 24.6 | 22.4 | 17.8 | 15.3 | 13.7 | 13.4 |
| 80° | 15.3 | 17.5 | 17.5 | 15.3 | 13.1 | 12.3 | 11.5 | 11.5 |
| 82.5° | 12.3 | 13.4 | 11.5 | 10.4 | 9.8 | 9.6 | 9.0 | 9.0 |
| 85° | 10.1 | 10.9 | 8.5 | 7.6 | 7.4 | 7.1 | 6.6 | 6.6 |
| 87.5° | 7.9 | 6.8 | 4.4 | 4.1 | 4.1 | 3.8 | 3.8 | 4.1 |
| 90° | 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 |
| 95° | 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 |
| 100° | 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 |
| 105° | 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 |



REPORT NUMBER: P173248

CATALOG NUMBER: ENC-EXX-LED-E1-BL3-8030-ULG-BBB

CANDELA DISTRIBUTION (continued):

| | 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 |
| 112.5° | 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 |
| 117.5° | 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 |
| 122.5° | 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 |
| 127.5° | 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 |
| 132.5° | 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 |
| 137.5° | 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 |
| 142.5° | 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 |
| 147.5° | 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 |
| 152.5° | 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 |
| 157.5° | 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 |
| 162.5° | 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 |
| 167.5° | 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 |
| 172.5° | 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 |
| 177.5° | 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 |

(END OF REPORT)