

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: LUMIERE

Report Number: P394747

Luminaire Tested: **303-B1-LEDB1-TSAM-UNV-T5X-DIM10**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-B1-LEDB1-TSAM-UNV-T5X-DIM10
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, SINGLE HEAD, ONE LIGHTBAR, TYPE 5
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 187.4 lumens
Efficiency: N/A
Efficacy: 28.8 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')
IES Classification: Type I - Short
BUG Rating: B0 - U0 - G0

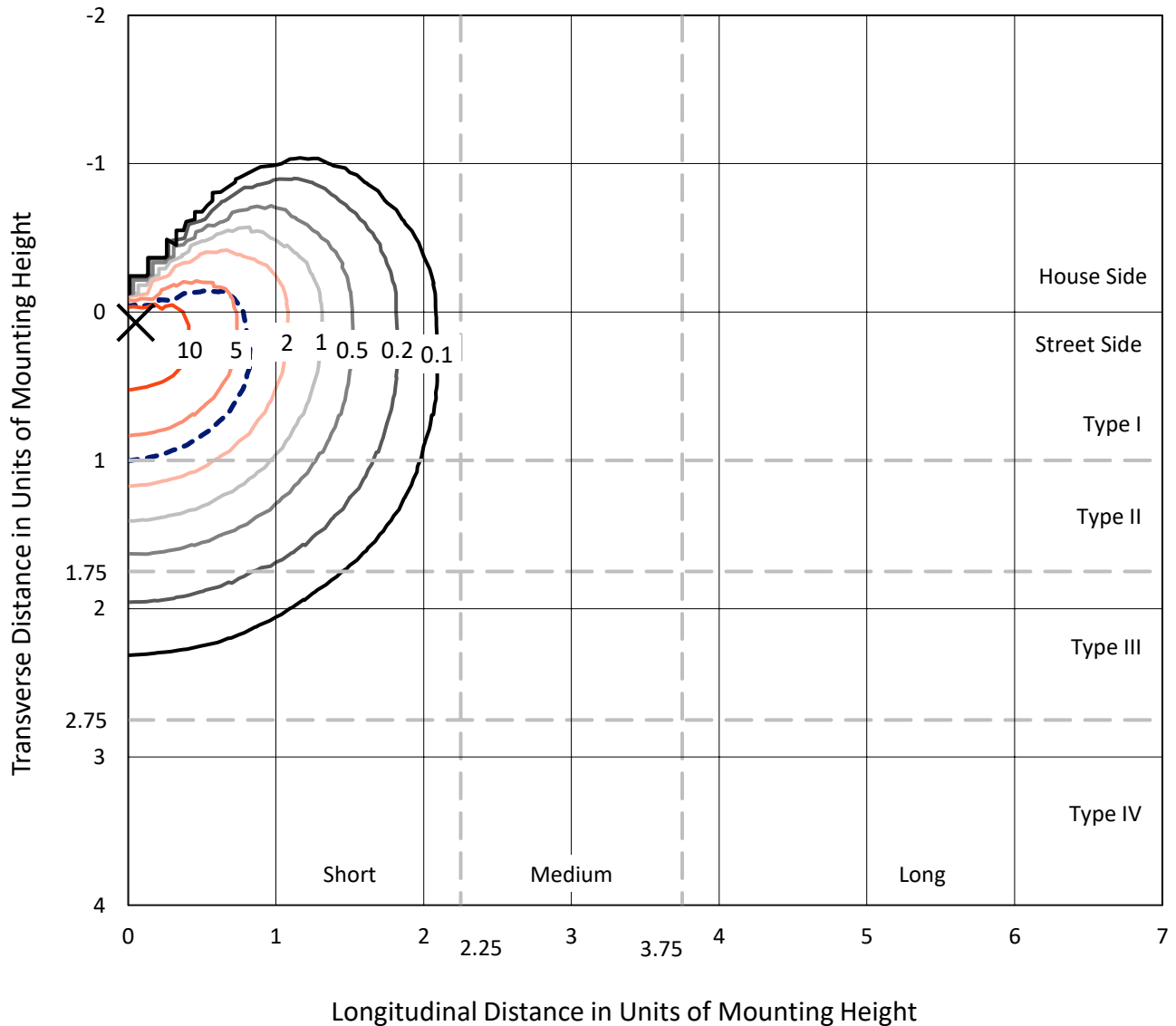
Input Watts (W): 6.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P394747
 CATALOG NUMBER: 303-B1-LEDB1-TSAM-UNV-T5X-DIM10

Iso-Footcandle Lines of Horizontal Illumination

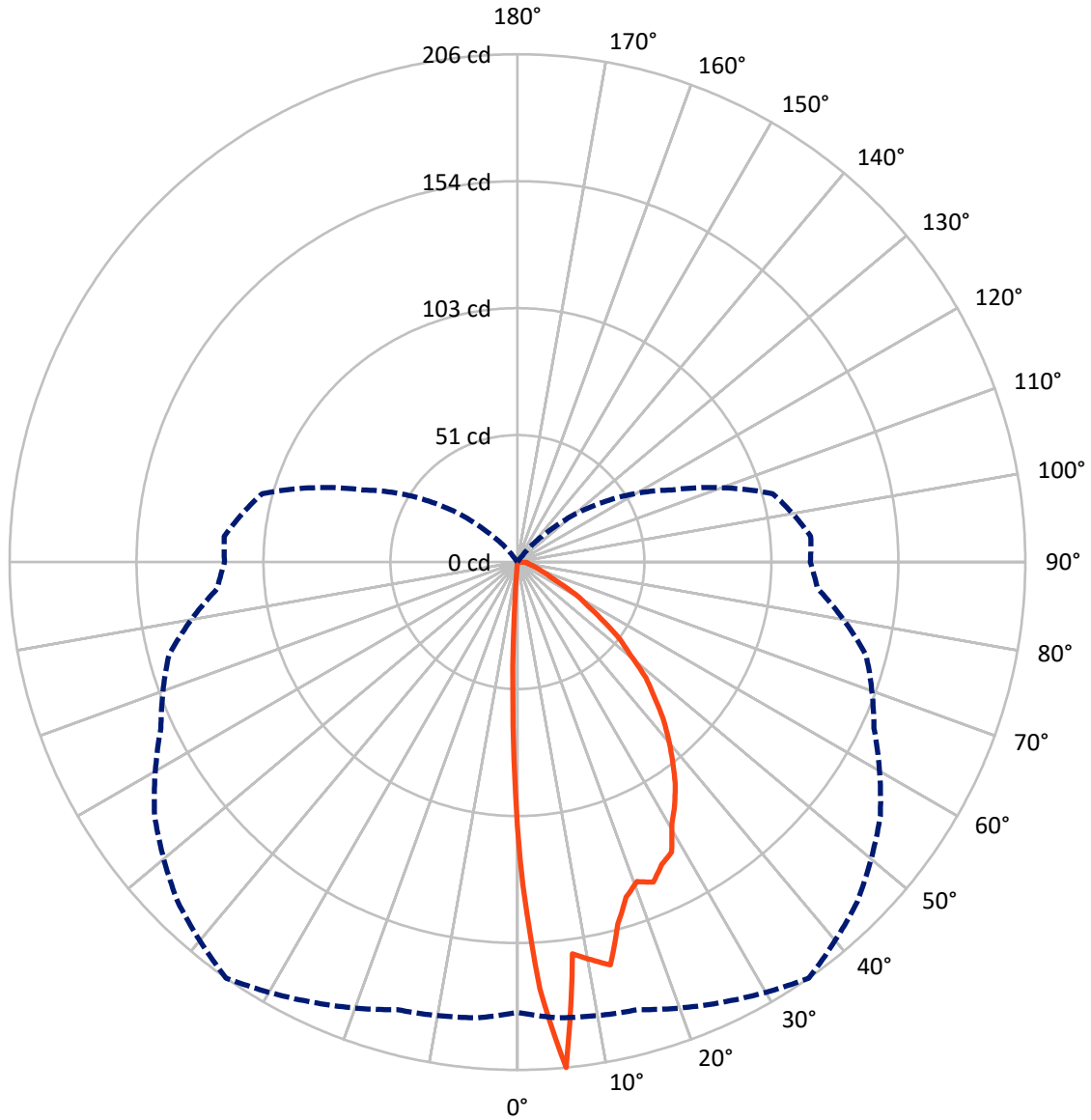
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 17.7 fc
 Type I - Short - N/A

REPORT NUMBER: P394747
CATALOG NUMBER: 303-B1-LEDB1-TSAM-UNV-T5X-DIM10

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

REPORT NUMBER: P394747

CATALOG NUMBER: 303-B1-LEDB1-TSAM-UNV-T5X-DIM10

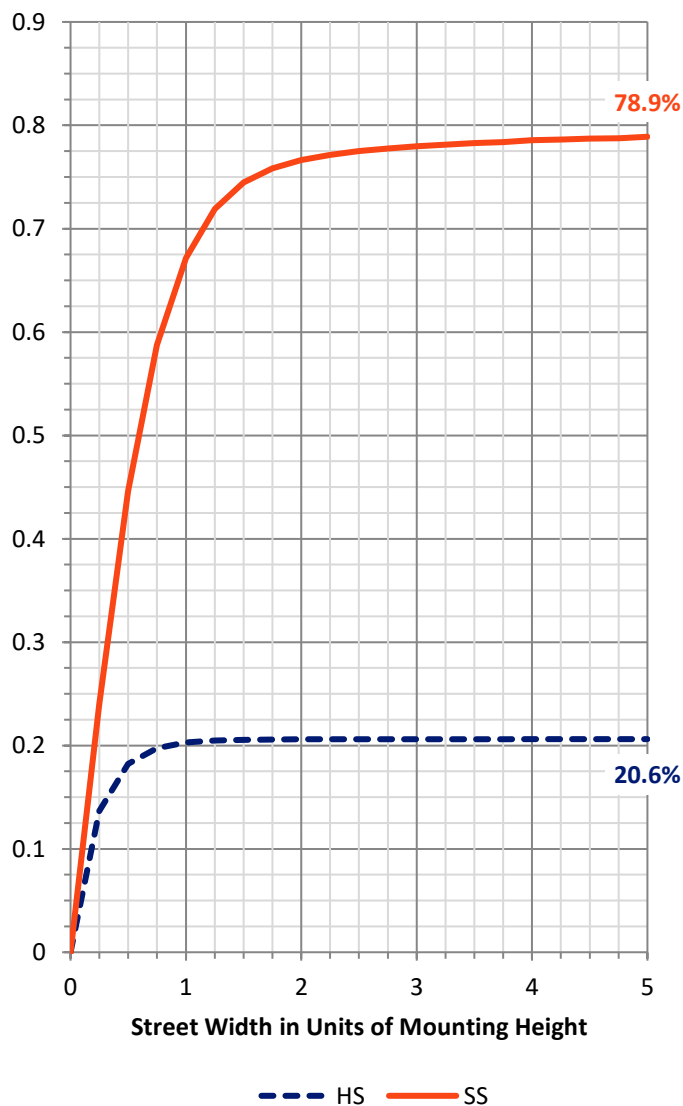
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|-------|
| House Side | Lumens | 39.1 | 0.0 | 39.1 |
| | % Fixture | 20.8 | 0.0 | 20.8 |
| Street Side | Lumens | 148.4 | 0.0 | 148.4 |
| | % Fixture | 79.2 | 0.0 | 79.2 |
| Total | Lumens | 187.4 | 0.0 | 187.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 9.8 | 5.2 |
| 10°-20° | 25.4 | 13.5 |
| 20°-30° | 36.9 | 19.7 |
| 30°-40° | 41.6 | 22.2 |
| 40°-50° | 36.6 | 19.5 |
| 50°-60° | 22.8 | 12.1 |
| 60°-70° | 9.2 | 4.9 |
| 70°-80° | 3.8 | 2.0 |
| 80°-90° | 1.5 | 0.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 187.4 | 100.0 |
| 0°-180° | 187.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P394747

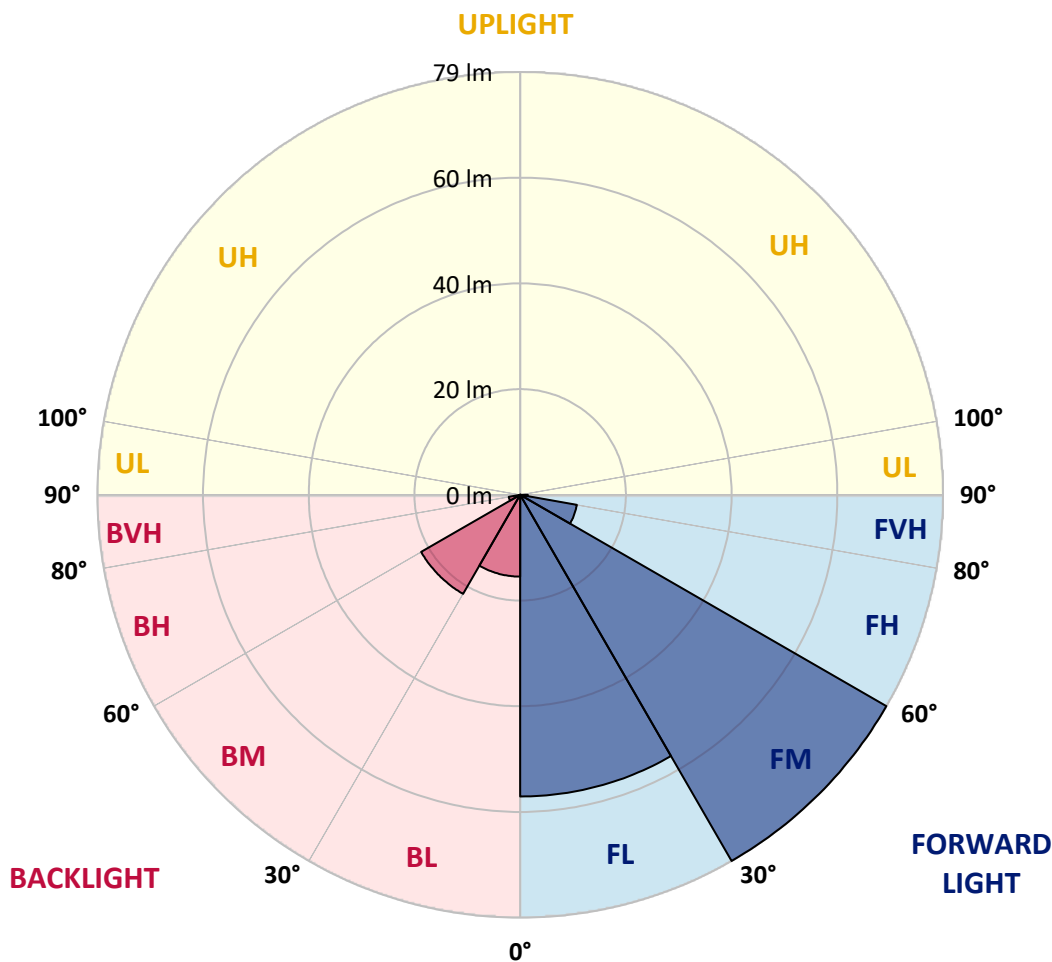
CATALOG NUMBER: 303-B1-LEDB1-TSAM-UNV-T5X-DIM10

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 56.7 | 30.2 | | | |
| FM (30°-60°) | 79.5 | 42.4 | | | |
| FH (60°-80°) | 10.8 | 5.8 | | | G0/660 |
| FVH (80°-90°) | 1.4 | 0.8 | | | G0/10 |
| BL (0°-30°) | 15.4 | 8.2 | B0/110 | | |
| BM (30°-60°) | 21.5 | 11.5 | B0/220 | | |
| BH (60°-80°) | 2.2 | 1.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0

Type I Short





REPORT NUMBER: P394747

CATALOG NUMBER: 303-B1-LEDB1-TSAM-UNV-T5X-DIM10

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 |
| 2.5° | 185.4 | 181.3 | 175.9 | 176.2 | 173.2 | 172.9 | 169.9 | 133.7 | 122.3 | 120.2 | 120.2 |
| 5° | 182.5 | 185.4 | 187.8 | 196.8 | 205.8 | 194.7 | 179.5 | 159.4 | 146.3 | 122.0 | 118.7 |
| 7.5° | 159.4 | 156.7 | 158.8 | 159.1 | 160.3 | 165.7 | 178.0 | 157.0 | 140.9 | 121.4 | 117.8 |
| 10° | 176.2 | 174.4 | 177.4 | 174.1 | 163.9 | 146.3 | 142.7 | 156.7 | 135.2 | 117.5 | 117.0 |
| 12.5° | 154.6 | 153.4 | 157.6 | 166.6 | 167.5 | 160.9 | 139.4 | 138.2 | 133.4 | 114.6 | 115.2 |
| 15° | 147.8 | 147.2 | 147.8 | 145.4 | 152.2 | 157.9 | 147.5 | 125.0 | 130.4 | 115.5 | 114.9 |
| 17.5° | 146.0 | 146.0 | 143.0 | 141.8 | 142.7 | 143.6 | 145.1 | 125.3 | 126.2 | 114.6 | 111.9 |
| 20° | 147.2 | 145.4 | 143.6 | 144.2 | 138.2 | 138.5 | 139.7 | 133.7 | 117.2 | 111.0 | 109.2 |
| 22.5° | 139.4 | 137.9 | 141.5 | 141.2 | 140.9 | 133.4 | 129.8 | 129.5 | 112.2 | 109.2 | 108.0 |
| 25° | 135.2 | 134.6 | 133.7 | 134.0 | 135.8 | 133.4 | 126.2 | 126.5 | 107.7 | 102.9 | 105.0 |
| 27.5° | 129.8 | 128.6 | 128.9 | 128.9 | 133.1 | 128.0 | 120.8 | 119.0 | 105.3 | 99.6 | 100.2 |
| 30° | 124.4 | 124.7 | 124.4 | 124.1 | 123.2 | 120.5 | 117.8 | 114.6 | 106.2 | 98.4 | 96.3 |
| 32.5° | 117.8 | 116.1 | 118.1 | 116.4 | 117.0 | 114.6 | 111.6 | 110.1 | 101.4 | 94.2 | 91.8 |
| 35° | 111.9 | 111.0 | 111.6 | 111.3 | 110.1 | 107.7 | 103.8 | 101.7 | 95.7 | 89.1 | 88.2 |
| 37.5° | 105.6 | 103.8 | 105.3 | 105.9 | 102.0 | 100.8 | 98.1 | 95.4 | 88.8 | 82.6 | 82.6 |
| 40° | 97.5 | 98.1 | 96.6 | 96.9 | 94.2 | 93.0 | 90.6 | 87.3 | 82.9 | 77.2 | 76.0 |
| 42.5° | 90.9 | 88.8 | 87.6 | 88.2 | 86.4 | 85.8 | 83.7 | 81.7 | 75.1 | 70.3 | 69.7 |
| 45° | 81.7 | 80.8 | 80.8 | 79.3 | 77.5 | 77.5 | 74.2 | 72.7 | 68.5 | 64.0 | 64.0 |
| 47.5° | 72.4 | 72.1 | 70.3 | 70.3 | 70.0 | 69.4 | 66.4 | 63.4 | 60.7 | 55.3 | 55.9 |
| 50° | 64.0 | 63.7 | 62.8 | 63.1 | 59.5 | 59.2 | 57.4 | 54.4 | 51.1 | 48.5 | 48.2 |
| 52.5° | 54.1 | 53.5 | 53.5 | 52.0 | 52.0 | 51.1 | 48.5 | 46.7 | 43.7 | 41.0 | 41.0 |
| 55° | 44.0 | 44.3 | 44.0 | 42.8 | 42.5 | 41.9 | 39.5 | 37.7 | 35.6 | 32.3 | 31.4 |
| 57.5° | 35.9 | 37.1 | 35.3 | 34.4 | 34.1 | 33.5 | 32.6 | 30.5 | 27.5 | 24.8 | 24.2 |
| 60° | 24.5 | 24.5 | 24.8 | 26.9 | 28.1 | 26.3 | 25.4 | 23.0 | 20.9 | 18.5 | 17.9 |
| 62.5° | 19.4 | 19.4 | 19.4 | 18.8 | 20.6 | 20.0 | 19.4 | 17.9 | 15.9 | 13.8 | 13.2 |
| 65° | 15.9 | 15.9 | 15.6 | 15.3 | 15.0 | 15.6 | 15.0 | 13.2 | 12.0 | 10.5 | 10.2 |
| 67.5° | 13.5 | 13.2 | 13.5 | 12.9 | 12.3 | 12.0 | 11.7 | 10.8 | 9.6 | 8.1 | 7.8 |
| 70° | 11.4 | 11.4 | 11.1 | 10.5 | 9.9 | 9.0 | 9.3 | 8.4 | 7.5 | 6.3 | 6.3 |
| 72.5° | 9.6 | 9.6 | 9.3 | 9.0 | 8.1 | 7.5 | 6.9 | 6.9 | 5.7 | 4.8 | 4.5 |
| 75° | 8.1 | 8.1 | 7.8 | 7.5 | 6.9 | 6.3 | 5.4 | 4.8 | 4.2 | 3.3 | 3.0 |
| 77.5° | 7.2 | 6.9 | 6.9 | 6.3 | 5.7 | 5.1 | 4.2 | 3.6 | 3.0 | 2.1 | 2.1 |
| 80° | 6.0 | 6.0 | 6.0 | 5.4 | 4.8 | 4.2 | 3.6 | 2.7 | 2.1 | 1.2 | 0.9 |
| 82.5° | 5.4 | 5.1 | 5.1 | 4.8 | 4.2 | 3.6 | 2.7 | 1.8 | 1.2 | 0.6 | 0.3 |
| 85° | 4.8 | 4.8 | 4.5 | 4.2 | 3.9 | 3.0 | 2.4 | 1.5 | 0.6 | 0.0 | 0.0 |
| 87.5° | 4.5 | 4.5 | 4.2 | 3.9 | 3.6 | 3.0 | 2.1 | 1.5 | 0.6 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P394747
 CATALOG NUMBER: 303-B1-LEDB1-TSAM-UNV-T5X-DIM10

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 |
| 2.5° | 119.9 | 120.5 | 119.0 | 76.3 | 54.7 | 52.9 | 53.2 | 52.9 | 50.8 | 49.7 |
| 5° | 119.3 | 107.1 | 69.1 | 42.2 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 118.4 | 102.3 | 68.8 | 41.0 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 115.8 | 100.8 | 67.9 | 44.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 115.8 | 99.9 | 66.4 | 45.8 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 114.6 | 98.4 | 66.1 | 46.1 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 111.9 | 97.5 | 64.9 | 45.2 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 108.3 | 94.2 | 63.4 | 44.6 | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 106.8 | 89.1 | 61.9 | 42.2 | 15.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 102.6 | 86.7 | 60.1 | 41.0 | 15.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 100.2 | 83.2 | 58.0 | 38.9 | 14.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 93.9 | 82.6 | 55.0 | 38.9 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 91.8 | 79.6 | 53.2 | 37.1 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 85.8 | 76.0 | 50.5 | 35.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 82.0 | 70.6 | 46.7 | 32.6 | 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 76.3 | 65.5 | 43.7 | 29.6 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 68.8 | 59.2 | 40.1 | 27.5 | 9.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 63.1 | 53.8 | 36.2 | 23.0 | 8.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 55.0 | 47.3 | 31.1 | 21.8 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 47.6 | 40.4 | 26.6 | 18.8 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 39.5 | 34.1 | 22.1 | 15.9 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 31.1 | 26.6 | 18.2 | 12.9 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 23.9 | 21.2 | 14.4 | 9.9 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 18.2 | 15.3 | 11.1 | 6.6 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 13.2 | 11.1 | 7.8 | 5.1 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 10.2 | 8.4 | 5.4 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7.8 | 6.3 | 4.2 | 2.4 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 6.3 | 4.8 | 3.0 | 1.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4.5 | 3.6 | 2.4 | 1.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3.0 | 2.4 | 1.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1.8 | 1.5 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.9 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)