

Scaled data based on original data using  
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires  
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: PRORATED FROM E366-40 \_250MP

Luminaire Tested: **UTR25PXX55**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: PRORATED FROM E366-40 \_250MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTR25PXX55  
Description: 250W MH TYPE V TRADITIONAIRE POST TOP  
Light Source: 250 WATT PULSE-START CLEAR ED-28 VBD BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 25000 (1 lamp)  
Luminaire Lumens: 15015.1 lumens  
Efficiency: 60.1%  
Efficacy: 53.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 0.92' x H: 1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U4 - G4

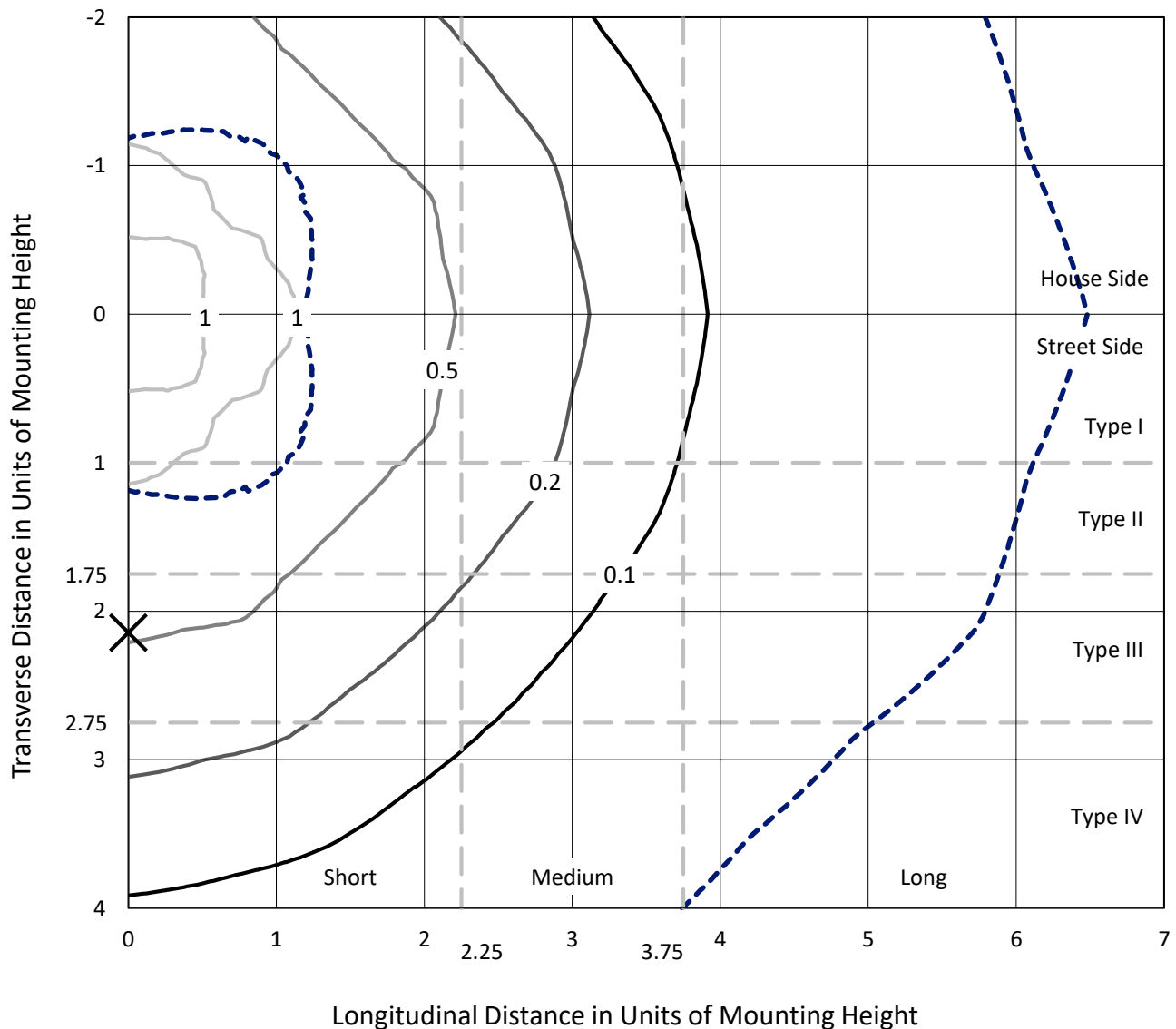
Input Watts (W): 283  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: PRORATED FROM E366-40 \_250MP  
CATALOG NUMBER: UTR25PXX55

## Iso-Footcandle Lines of Horizontal Illumination

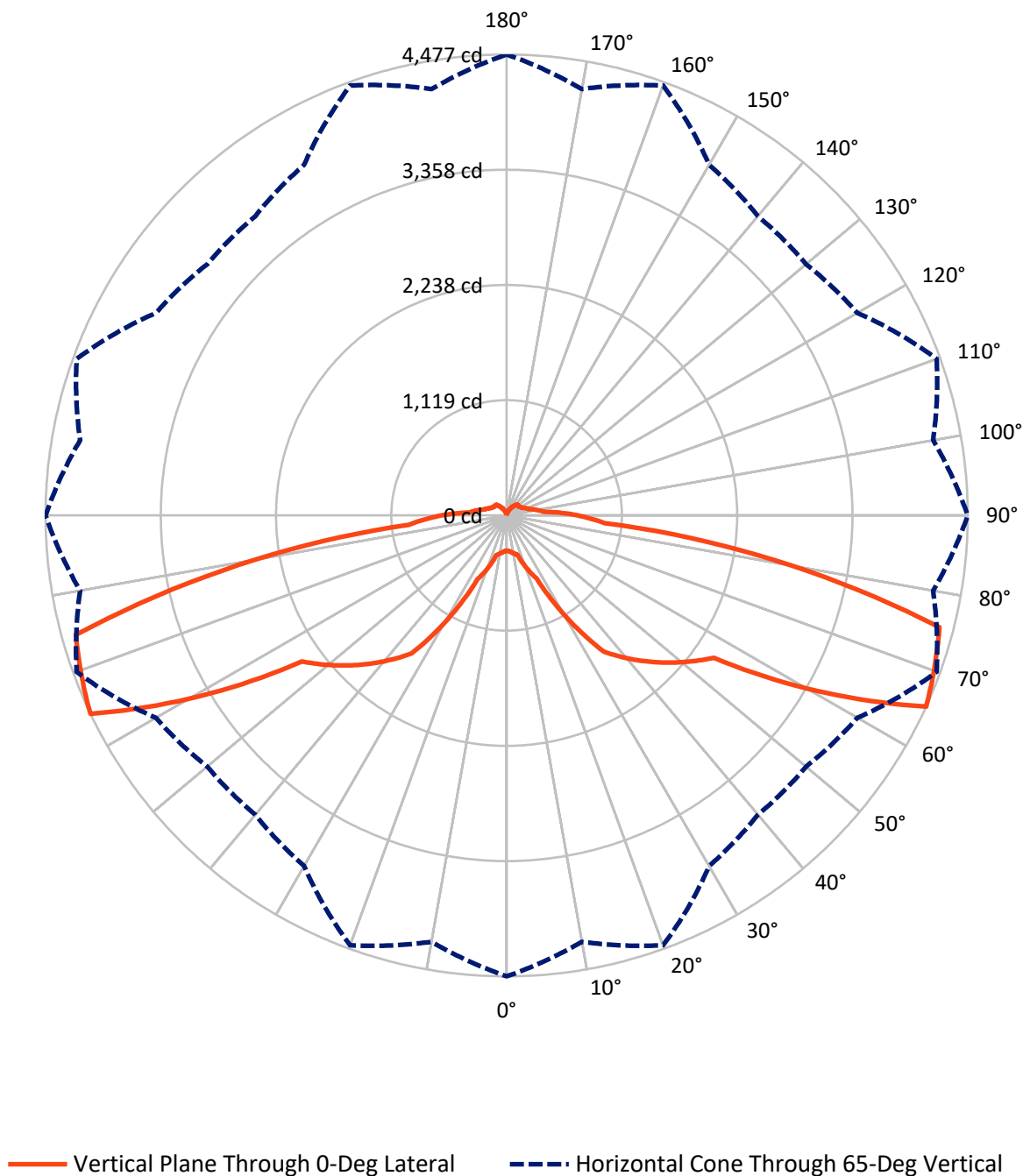
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
Type V - Short - Semi-Cutoff

REPORT NUMBER: PRORATED FROM E366-40 \_250MP  
CATALOG NUMBER: UTR25PXX55

## Luminous Intensity Polar Plot



REPORT NUMBER: PRORATED FROM E366-40 \_250MP  
CATALOG NUMBER: UTR25PXX55

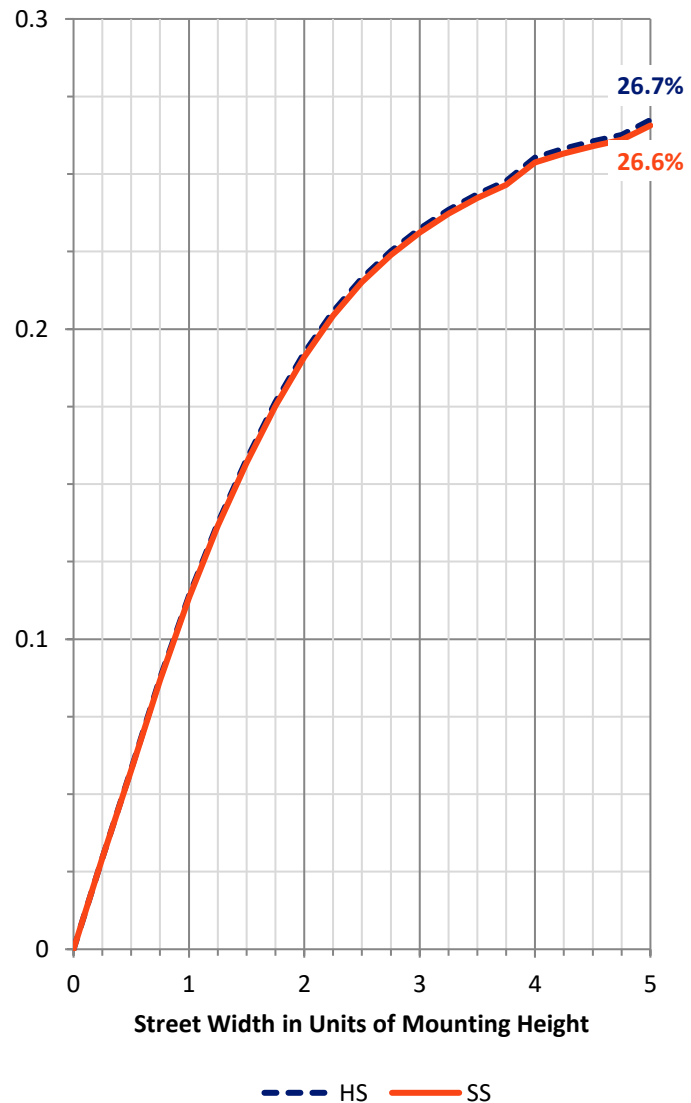
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 6908.4   | 599.2  | 7507.6  |
|                    | % Lamp | 27.6     | 2.4    | 30.0    |
| <b>Street Side</b> | Lumens | 6908.4   | 599.2  | 7507.6  |
|                    | % Lamp | 27.6     | 2.4    | 30.0    |
| <b>Total</b>       | Lumens | 13816.8  | 1198.3 | 15015.1 |
|                    | % Lamp | 55.3     | 4.8    | 60.1    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 33.8    | 0.2       | 0.1    |
| 10°-20°   | 122.9   | 0.8       | 0.5    |
| 20°-30°   | 353.1   | 2.4       | 1.4    |
| 30°-40°   | 828.7   | 5.5       | 3.3    |
| 40°-50°   | 1423.2  | 9.5       | 5.7    |
| 50°-60°   | 2367.7  | 15.8      | 9.5    |
| 60°-70°   | 3580.9  | 23.8      | 14.3   |
| 70°-80°   | 3363.3  | 22.4      | 13.5   |
| 80°-90°   | 1635.2  | 10.9      | 6.5    |
| 90°-100°  | 521.3   | 3.5       | 2.1    |
| 100°-110° | 276.7   | 1.8       | 1.1    |
| 110°-120° | 175.1   | 1.2       | 0.7    |
| 120°-130° | 124.6   | 0.8       | 0.5    |
| 130°-140° | 84.7    | 0.6       | 0.3    |
| 140°-150° | 46.6    | 0.3       | 0.2    |
| 150°-160° | 22.9    | 0.2       | 0.1    |
| 160°-170° | 0.0     | 0.0       | 0.0    |
| 170°-180° | 0.0     | 0.0       | 0.0    |
| 0°-90°    | 13816.8 | 92.0      | 55.3   |
| 0°-180°   | 15015.1 | 100.0     | 60.1   |

**Coefficient of Utilization**

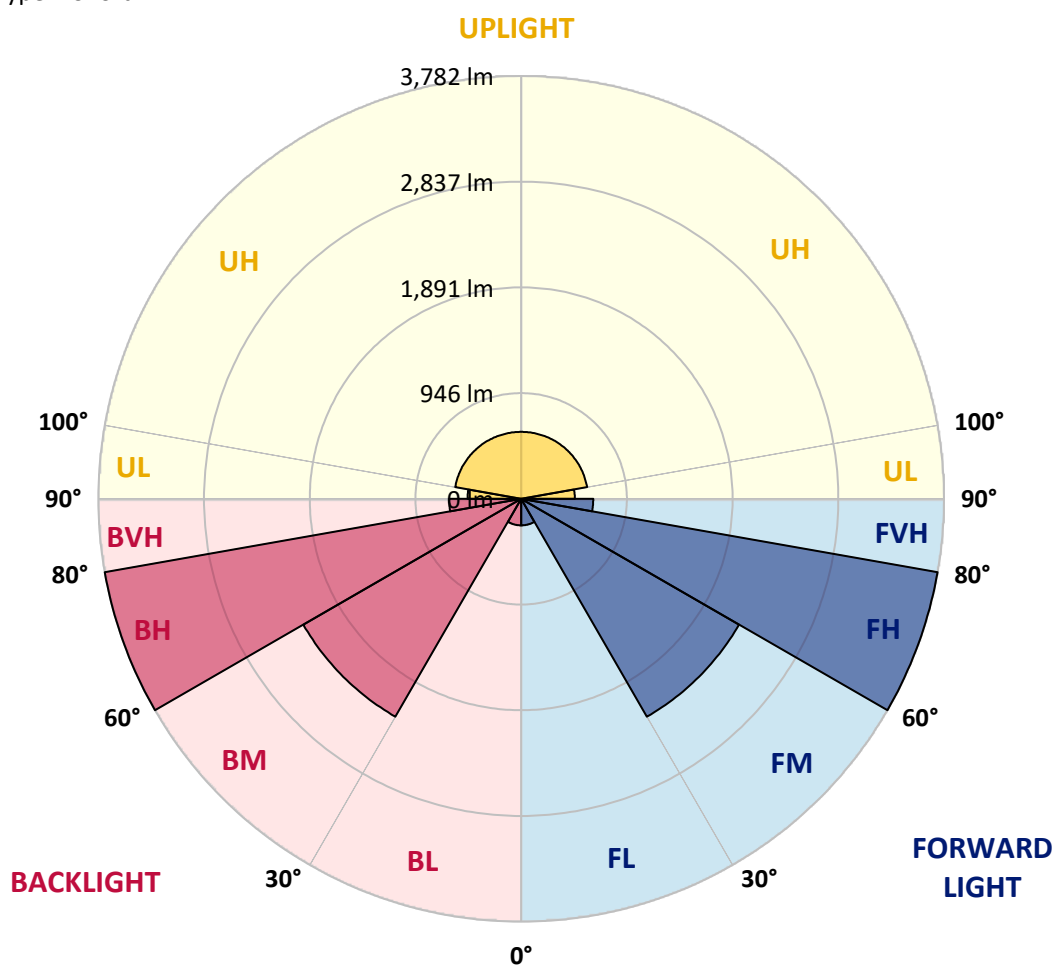


REPORT NUMBER: PRORATED FROM E366-40 \_250MP  
CATALOG NUMBER: UTR25PXX55

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |         |         |
|---------------|-------------|--------|--------|-------------------------|---------|---------|
|               |             |        |        | B                       | U       | G       |
| FL            | (0°-30°)    | 237.5  | 0.9    |                         |         |         |
| FM            | (30°-60°)   | 2250.3 | 9.0    |                         |         |         |
| FH            | (60°-80°)   | 3782.3 | 15.1   |                         |         | G2/5000 |
| FVH           | (80°-90°)   | 644.8  | 2.6    |                         |         | G4/750  |
| BL            | (0°-30°)    | 237.5  | 0.9    | B1/500                  |         |         |
| BM            | (30°-60°)   | 2250.3 | 9.0    | B2/2500                 |         |         |
| BH            | (60°-80°)   | 3782.3 | 15.1   | B4/5000                 |         | G2/5000 |
| BVH           | (80°-90°)   | 644.8  | 2.6    |                         |         | G4/750  |
| UL            | (90°-100°)  | 479.9  | 1.9    |                         | U3/500  |         |
| UH            | (100°-180°) | 599.2  | 2.4    |                         | U4/1000 |         |
| Trapped Light |             | 9984.9 | 39.9   |                         |         |         |

**BUG Rating: B4-U4-G4**  
Type V Short





REPORT NUMBER: PRORATED FROM E366-40 \_250MP

CATALOG NUMBER: UTR25PXX55

**CANDELA DISTRIBUTION (FULL):**

|      | 0°     | 10°    | 20°    | 30°    | 40°    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°   | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  |
| 5°   | 352.4  | 352.4  | 352.4  | 352.4  | 341.5  | 341.5  | 352.4  | 352.4  | 352.4  | 352.4  | 352.4  |
| 15°  | 397.6  | 397.6  | 397.6  | 329.3  | 374.4  | 374.4  | 329.3  | 397.6  | 397.6  | 397.6  | 397.6  |
| 25°  | 681.7  | 704.9  | 670.7  | 591.5  | 523.2  | 523.2  | 591.5  | 670.7  | 704.9  | 681.7  | 704.9  |
| 35°  | 1624.4 | 1602.4 | 1386.6 | 1307.3 | 1261.0 | 1261.0 | 1307.3 | 1386.6 | 1602.4 | 1624.4 | 1602.4 |
| 45°  | 2034.1 | 1931.7 | 1761.0 | 1818.3 | 1647.6 | 1647.6 | 1818.3 | 1761.0 | 1931.7 | 2034.1 | 1931.7 |
| 55°  | 2442.7 | 2442.7 | 2352.4 | 2239.0 | 2102.4 | 2102.4 | 2239.0 | 2352.4 | 2442.7 | 2442.7 | 2442.7 |
| 65°  | 4476.8 | 4204.9 | 4442.7 | 3931.7 | 3795.1 | 3795.1 | 3931.7 | 4442.7 | 4204.9 | 4476.8 | 4204.9 |
| 75°  | 4340.2 | 4057.3 | 4000.0 | 3624.4 | 3500.0 | 3500.0 | 3624.4 | 4000.0 | 4057.3 | 4340.2 | 4057.3 |
| 85°  | 954.9  | 908.5  | 908.5  | 841.5  | 773.2  | 773.2  | 841.5  | 908.5  | 908.5  | 954.9  | 908.5  |
| 95°  | 363.4  | 363.4  | 397.6  | 431.7  | 431.7  | 431.7  | 431.7  | 397.6  | 363.4  | 363.4  | 363.4  |
| 105° | 226.8  | 226.8  | 239.0  | 250.0  | 250.0  | 250.0  | 250.0  | 239.0  | 226.8  | 226.8  | 226.8  |
| 115° | 170.7  | 158.5  | 158.5  | 170.7  | 170.7  | 170.7  | 170.7  | 158.5  | 158.5  | 170.7  | 158.5  |
| 125° | 147.6  | 136.6  | 124.4  | 136.6  | 136.6  | 136.6  | 136.6  | 124.4  | 136.6  | 147.6  | 136.6  |
| 135° | 147.6  | 136.6  | 124.4  | 113.4  | 91.5   | 91.5   | 113.4  | 124.4  | 136.6  | 147.6  | 136.6  |
| 145° | 102.4  | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 102.4  | 57.3   |
| 155° | 57.3   | 57.3   | 57.3   | 34.1   | 57.3   | 57.3   | 34.1   | 57.3   | 57.3   | 57.3   | 57.3   |
| 180° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: PRORATED FROM E366-40 \_250MP

CATALOG NUMBER: UTR25PXX55

**CANDELA DISTRIBUTION (continued):**

|      | 110°   | 120°   | 130°   | 140°   | 150°   | 160°   | 170°   | 180°   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°   | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  | 341.5  |
| 5°   | 352.4  | 352.4  | 341.5  | 341.5  | 352.4  | 352.4  | 352.4  | 352.4  |
| 15°  | 397.6  | 329.3  | 374.4  | 374.4  | 329.3  | 397.6  | 397.6  | 397.6  |
| 25°  | 670.7  | 591.5  | 523.2  | 523.2  | 591.5  | 670.7  | 704.9  | 681.7  |
| 35°  | 1386.6 | 1307.3 | 1261.0 | 1261.0 | 1307.3 | 1386.6 | 1602.4 | 1624.4 |
| 45°  | 1761.0 | 1818.3 | 1647.6 | 1647.6 | 1818.3 | 1761.0 | 1931.7 | 2034.1 |
| 55°  | 2352.4 | 2239.0 | 2102.4 | 2102.4 | 2239.0 | 2352.4 | 2442.7 | 2442.7 |
| 65°  | 4442.7 | 3931.7 | 3795.1 | 3795.1 | 3931.7 | 4442.7 | 4204.9 | 4476.8 |
| 75°  | 4000.0 | 3624.4 | 3500.0 | 3500.0 | 3624.4 | 4000.0 | 4057.3 | 4340.2 |
| 85°  | 908.5  | 841.5  | 773.2  | 773.2  | 841.5  | 908.5  | 908.5  | 954.9  |
| 95°  | 397.6  | 431.7  | 431.7  | 431.7  | 431.7  | 397.6  | 363.4  | 363.4  |
| 105° | 239.0  | 250.0  | 250.0  | 250.0  | 250.0  | 239.0  | 226.8  | 226.8  |
| 115° | 158.5  | 170.7  | 170.7  | 170.7  | 170.7  | 158.5  | 158.5  | 170.7  |
| 125° | 124.4  | 136.6  | 136.6  | 136.6  | 136.6  | 124.4  | 136.6  | 147.6  |
| 135° | 124.4  | 113.4  | 91.5   | 91.5   | 113.4  | 124.4  | 136.6  | 147.6  |
| 145° | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 102.4  |
| 155° | 57.3   | 34.1   | 57.3   | 57.3   | 34.1   | 57.3   | 57.3   | 57.3   |
| 180° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)