

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: McGRAW-EDISON

Report Number: P197776

Luminaire Tested: **TT-C1-LED-E1-5WQ-PM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-5WQ-PM-7060
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.7 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

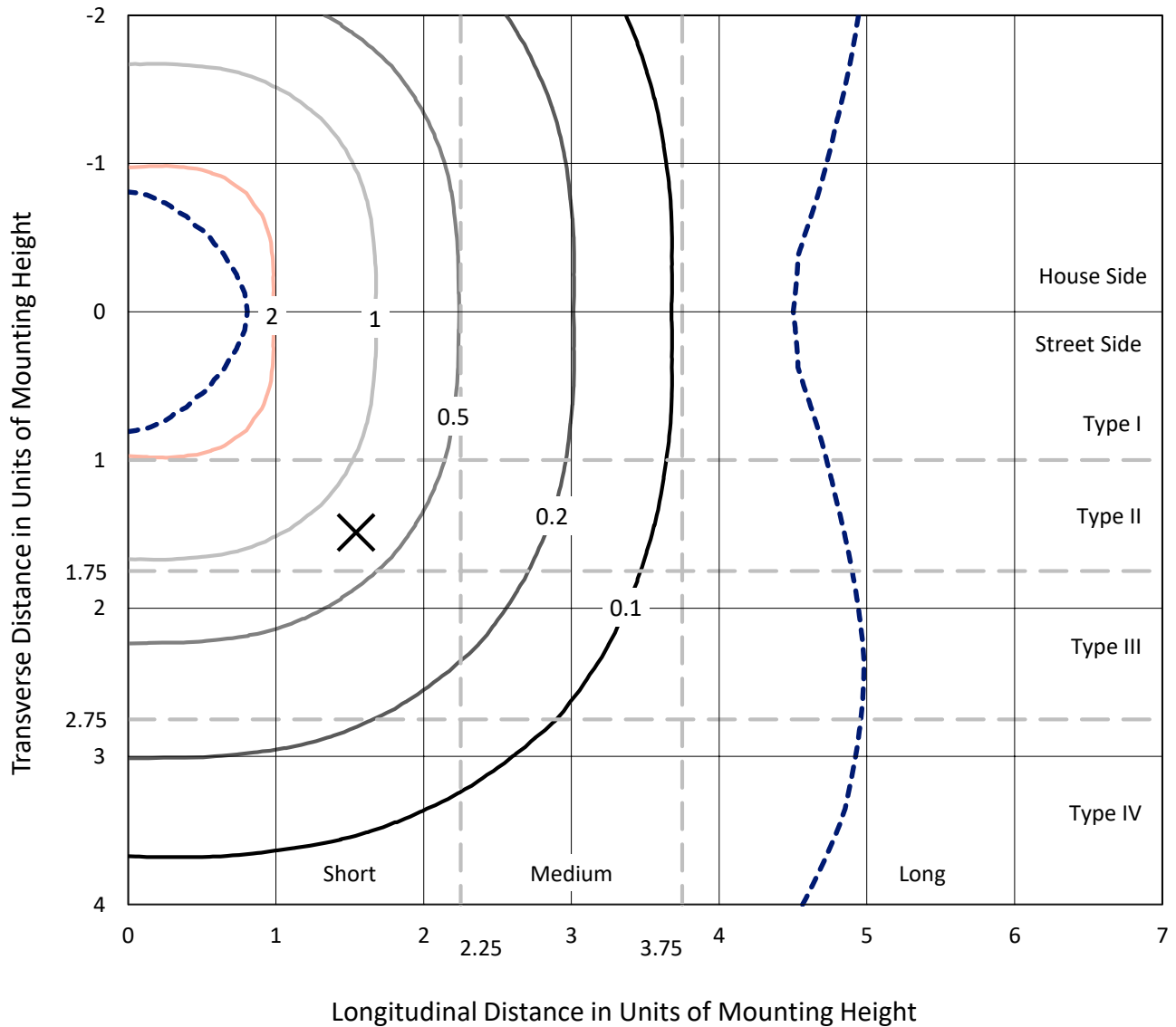
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P197776
 CATALOG NUMBER: TT-C1-LED-E1-5WQ-PM-7060

Iso-Footcandle Lines of Horizontal Illumination

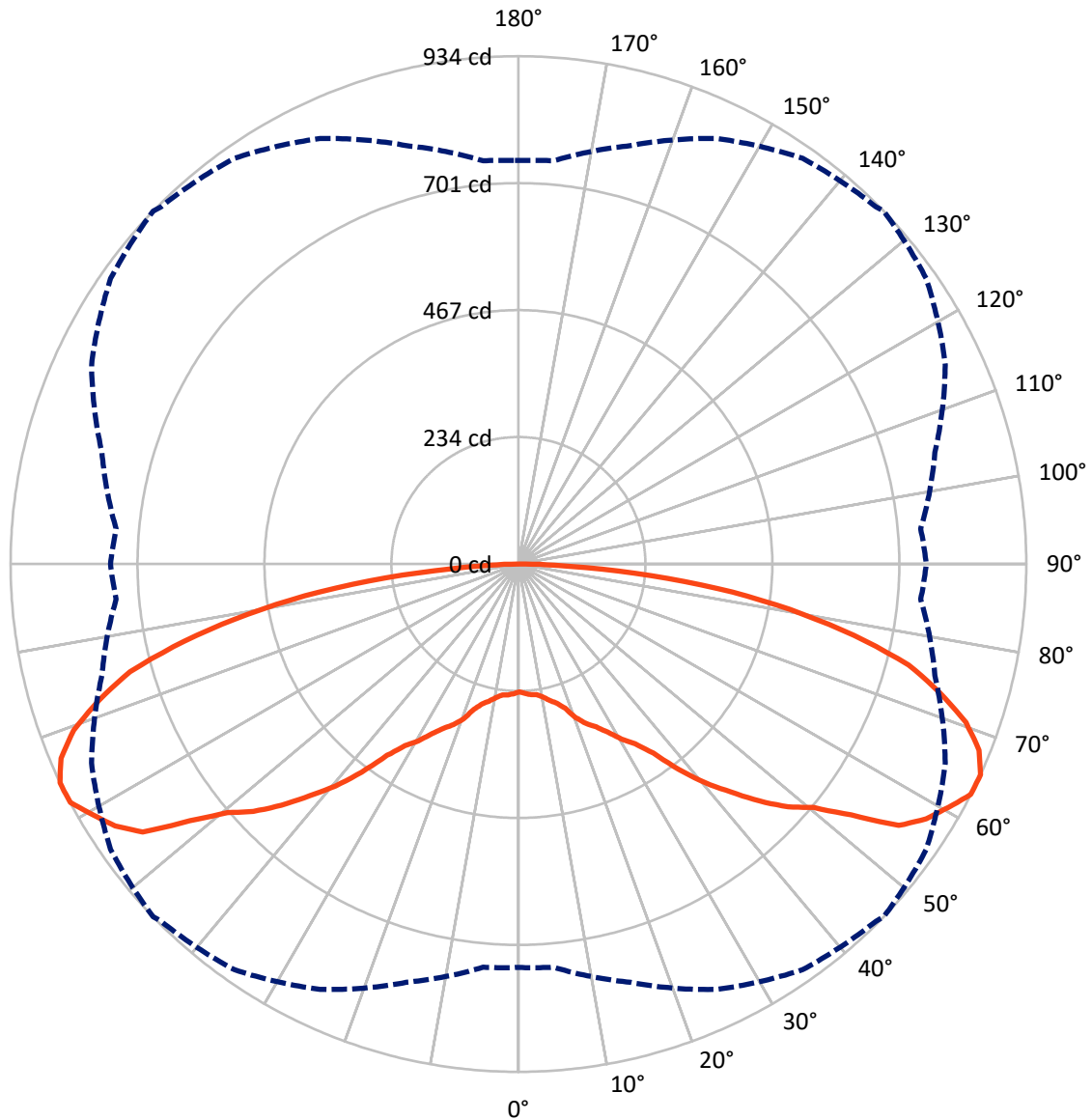
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197776
CATALOG NUMBER: TT-C1-LED-E1-5WQ-PM-7060

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P197776

CATALOG NUMBER: TT-C1-LED-E1-5WQ-PM-7060

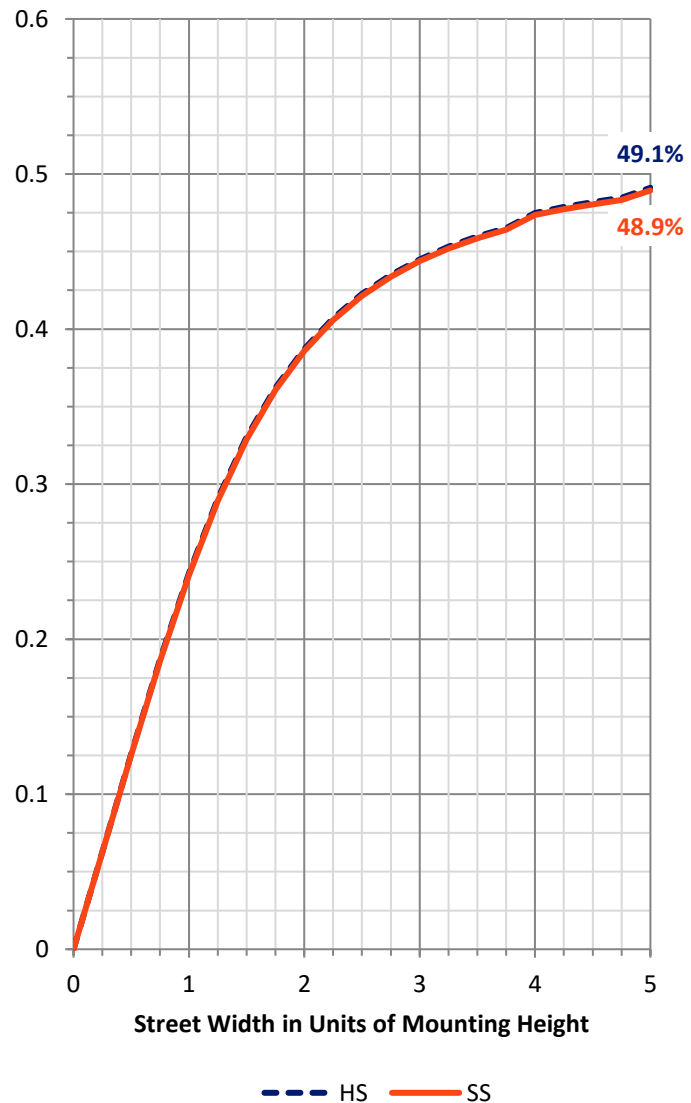
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1677.4 | 0.0 | 1677.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1677.4 | 0.0 | 1677.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3354.7 | 0.0 | 3354.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.3 | 0.7 |
| 10°-20° | 77.5 | 2.3 |
| 20°-30° | 155.9 | 4.6 |
| 30°-40° | 271.4 | 8.1 |
| 40°-50° | 459.0 | 13.7 |
| 50°-60° | 684.1 | 20.4 |
| 60°-70° | 818.8 | 24.4 |
| 70°-80° | 662.9 | 19.8 |
| 80°-90° | 202.0 | 6.0 |
| 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° | 3354.7 | 100.0 |
| 0°-180° | 3354.7 | 100.0 |



REPORT NUMBER: P197776

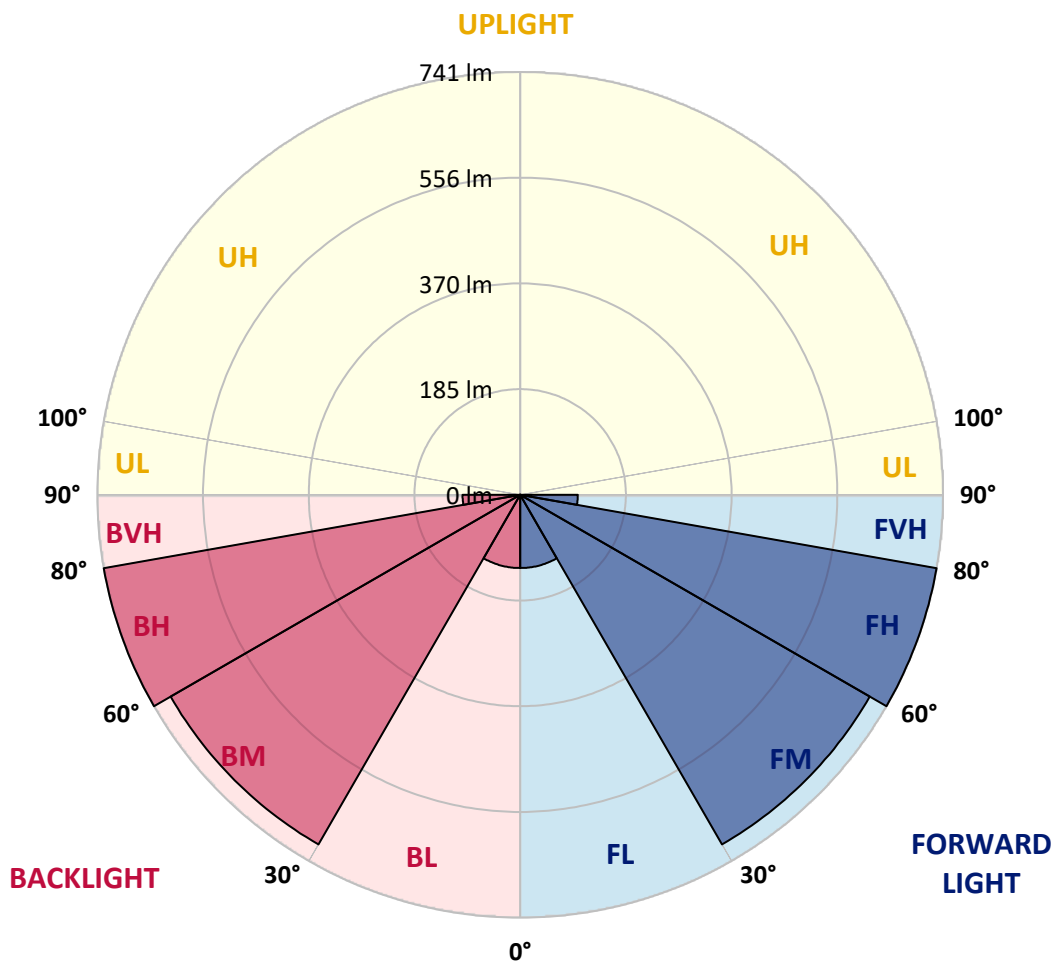
CATALOG NUMBER: TT-C1-LED-E1-5WQ-PM-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 128.3 | 3.8 | | | |
| FM (30°-60°) | 707.3 | 21.1 | | | |
| FH (60°-80°) | 740.8 | 22.1 | | | G1/1800 |
| FVH (80°-90°) | 101.0 | 3.0 | | | G2/225 |
| BL (0°-30°) | 128.3 | 3.8 | B1/500 | | |
| BM (30°-60°) | 707.3 | 21.1 | B1/1000 | | |
| BH (60°-80°) | 740.8 | 22.1 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 101.0 | 3.0 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type V Short





REPORT NUMBER: P197776

CATALOG NUMBER: TT-C1-LED-E1-5WQ-PM-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 235.0 | 235.0 | 235.0 | 235.0 | 235.0 | 235.0 | 235.0 | 235.0 | 235.0 | 235.0 | 235.0 |
| 2.5° | 239.0 | 238.5 | 238.5 | 238.5 | 238.5 | 238.5 | 238.5 | 238.5 | 238.5 | 238.5 | 239.0 |
| 5° | 243.1 | 243.1 | 242.5 | 241.9 | 241.9 | 241.4 | 241.4 | 241.4 | 241.9 | 242.5 | 242.5 |
| 7.5° | 244.8 | 244.3 | 244.3 | 243.7 | 243.1 | 243.1 | 242.5 | 243.1 | 243.7 | 244.3 | 244.3 |
| 10° | 248.3 | 248.9 | 249.5 | 250.1 | 250.7 | 250.1 | 248.9 | 250.1 | 250.1 | 249.5 | 248.3 |
| 12.5° | 256.5 | 256.5 | 258.2 | 259.9 | 259.9 | 259.4 | 257.6 | 259.9 | 259.4 | 257.6 | 256.5 |
| 15° | 267.5 | 268.1 | 268.1 | 269.8 | 268.6 | 267.5 | 265.7 | 268.6 | 268.6 | 267.5 | 266.9 |
| 17.5° | 283.1 | 282.0 | 280.2 | 281.4 | 282.6 | 282.6 | 279.1 | 282.6 | 280.2 | 279.1 | 280.8 |
| 20° | 300.5 | 300.0 | 299.4 | 300.5 | 305.2 | 303.5 | 301.7 | 304.0 | 301.1 | 297.1 | 298.2 |
| 22.5° | 313.9 | 315.1 | 316.8 | 318.5 | 323.2 | 322.0 | 318.5 | 322.6 | 318.0 | 316.8 | 313.3 |
| 25° | 330.7 | 330.1 | 334.8 | 334.8 | 337.7 | 335.9 | 331.9 | 337.7 | 333.0 | 334.8 | 329.6 |
| 27.5° | 347.5 | 347.0 | 350.4 | 350.4 | 355.7 | 355.1 | 349.9 | 355.7 | 350.4 | 349.3 | 347.5 |
| 30° | 366.7 | 365.5 | 366.1 | 370.8 | 378.3 | 378.3 | 373.7 | 376.6 | 370.8 | 365.0 | 364.4 |
| 32.5° | 387.0 | 384.7 | 388.2 | 395.7 | 399.8 | 398.6 | 394.0 | 398.6 | 396.9 | 387.0 | 384.7 |
| 35° | 406.7 | 409.6 | 416.0 | 422.4 | 429.9 | 431.1 | 427.0 | 429.4 | 423.0 | 415.4 | 409.6 |
| 37.5° | 439.8 | 444.4 | 452.6 | 467.7 | 479.3 | 482.7 | 479.3 | 478.1 | 468.8 | 452.0 | 443.9 |
| 40° | 486.2 | 487.4 | 498.4 | 521.0 | 533.2 | 535.5 | 529.2 | 530.9 | 519.9 | 501.3 | 483.9 |
| 42.5° | 523.9 | 522.2 | 541.9 | 562.2 | 575.0 | 580.2 | 573.2 | 575.6 | 560.5 | 542.5 | 523.4 |
| 45° | 554.7 | 556.4 | 576.7 | 597.0 | 617.3 | 627.2 | 622.0 | 617.9 | 595.9 | 575.6 | 558.7 |
| 47.5° | 583.1 | 591.2 | 605.2 | 634.8 | 660.3 | 671.3 | 667.2 | 661.4 | 638.2 | 604.6 | 591.8 |
| 50° | 619.1 | 624.3 | 641.1 | 679.4 | 703.2 | 707.3 | 703.8 | 703.8 | 681.7 | 642.9 | 625.5 |
| 52.5° | 658.0 | 658.5 | 683.5 | 722.9 | 753.1 | 769.4 | 766.5 | 758.3 | 723.5 | 689.3 | 660.9 |
| 55° | 704.4 | 698.0 | 736.9 | 778.1 | 823.3 | 850.0 | 848.9 | 831.4 | 783.9 | 738.6 | 700.9 |
| 57.5° | 730.5 | 731.6 | 767.0 | 829.1 | 872.6 | 880.2 | 884.2 | 873.8 | 837.8 | 768.2 | 738.6 |
| 60° | 736.3 | 750.2 | 782.7 | 851.2 | 885.4 | 907.5 | 908.6 | 891.2 | 853.5 | 787.3 | 756.0 |
| 62.5° | 738.6 | 755.4 | 795.5 | 850.0 | 908.0 | 929.5 | 933.6 | 915.6 | 854.7 | 797.2 | 751.4 |
| 65° | 742.1 | 744.4 | 796.6 | 863.4 | 910.9 | 929.5 | 934.1 | 915.6 | 866.3 | 793.1 | 742.7 |
| 67.5° | 727.6 | 721.8 | 767.6 | 840.1 | 886.6 | 908.6 | 913.8 | 891.8 | 841.9 | 768.8 | 729.3 |
| 70° | 675.4 | 677.7 | 728.7 | 797.8 | 848.9 | 869.7 | 873.2 | 849.4 | 797.2 | 734.0 | 688.1 |
| 72.5° | 620.2 | 626.0 | 669.0 | 738.6 | 784.4 | 804.8 | 811.1 | 786.2 | 742.1 | 677.1 | 629.5 |
| 75° | 543.7 | 554.7 | 595.9 | 658.5 | 704.4 | 735.1 | 741.5 | 709.0 | 656.2 | 599.9 | 554.1 |
| 77.5° | 458.9 | 466.5 | 505.9 | 559.9 | 609.2 | 624.9 | 630.7 | 615.0 | 562.8 | 512.9 | 470.0 |
| 80° | 360.9 | 363.8 | 403.8 | 446.8 | 485.1 | 497.8 | 506.5 | 486.8 | 451.4 | 406.1 | 364.4 |
| 82.5° | 247.8 | 251.8 | 280.2 | 319.7 | 353.3 | 358.6 | 369.6 | 353.3 | 320.3 | 285.5 | 254.1 |
| 85° | 128.8 | 134.6 | 156.7 | 178.1 | 204.2 | 210.6 | 214.1 | 201.9 | 184.5 | 156.1 | 135.2 |
| 87.5° | 27.9 | 30.8 | 34.2 | 44.1 | 52.8 | 60.3 | 65.6 | 54.5 | 43.5 | 36.6 | 27.9 |
| 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: P197776

CATALOG NUMBER: TT-C1-LED-E1-5WQ-PM-7060

CANDELA DISTRIBUTION (continued):

| | 90° |
|-------|-------|
| 0° | 235.0 |
| 2.5° | 238.5 |
| 5° | 242.5 |
| 7.5° | 244.3 |
| 10° | 248.3 |
| 12.5° | 255.9 |
| 15° | 267.5 |
| 17.5° | 282.0 |
| 20° | 297.6 |
| 22.5° | 311.6 |
| 25° | 328.4 |
| 27.5° | 347.5 |
| 30° | 367.3 |
| 32.5° | 383.5 |
| 35° | 406.1 |
| 37.5° | 443.3 |
| 40° | 488.0 |
| 42.5° | 523.9 |
| 45° | 553.5 |
| 47.5° | 586.6 |
| 50° | 619.7 |
| 52.5° | 662.0 |
| 55° | 703.8 |
| 57.5° | 725.3 |
| 60° | 738.6 |
| 62.5° | 749.1 |
| 65° | 750.2 |
| 67.5° | 720.0 |
| 70° | 674.2 |
| 72.5° | 622.0 |
| 75° | 545.4 |
| 77.5° | 464.7 |
| 80° | 360.9 |
| 82.5° | 253.6 |
| 85° | 132.9 |
| 87.5° | 26.1 |
| 90° | 0.0 |

(END OF REPORT)