

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: P197802

Luminaire Tested: **TT-C2-LED-E1-5WQ-PM-CG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-5WQ-PM-CG-LWR-LW
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.7 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
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

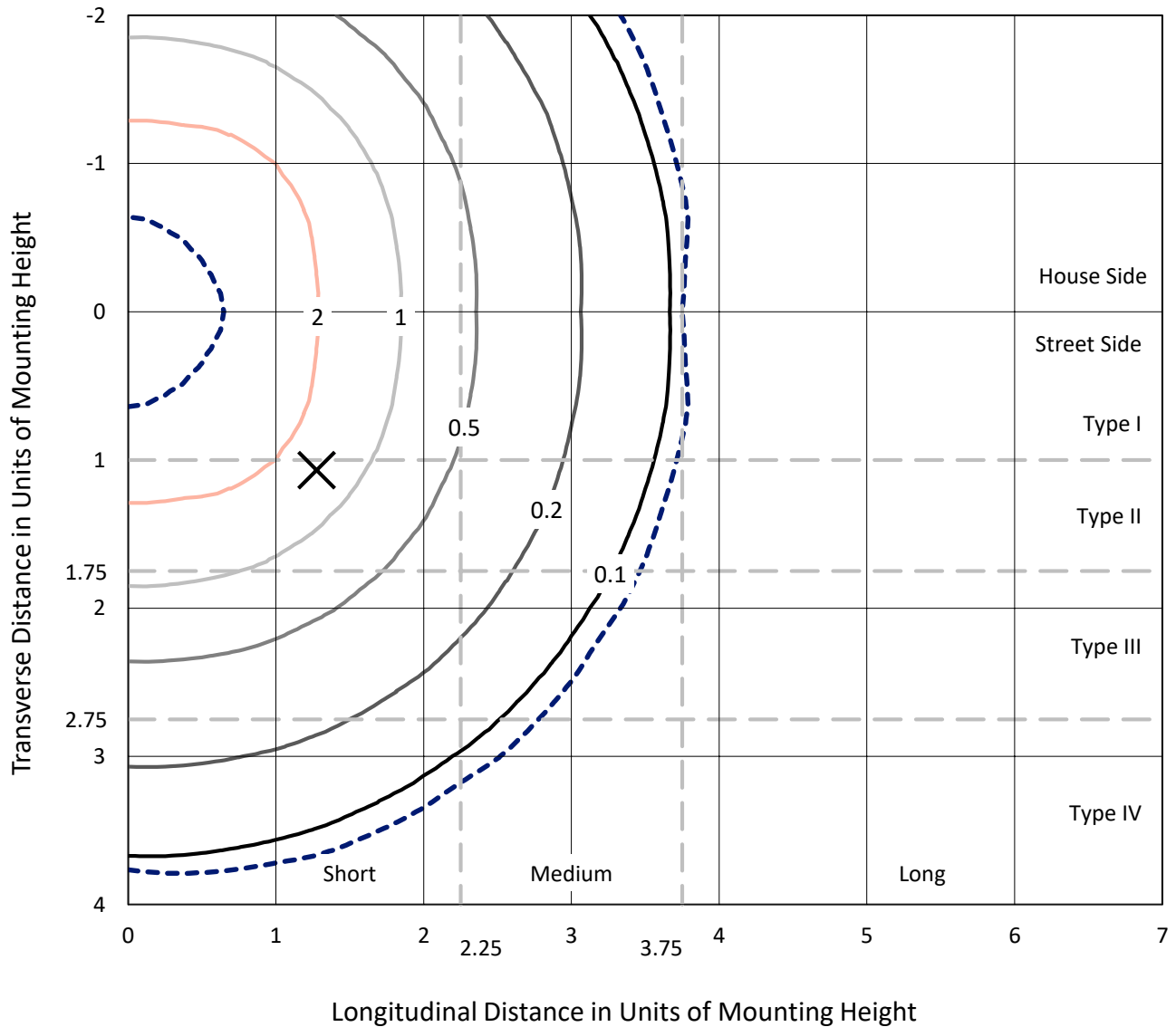


REPORT NUMBER: P197802

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-CG-LWR-LW

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

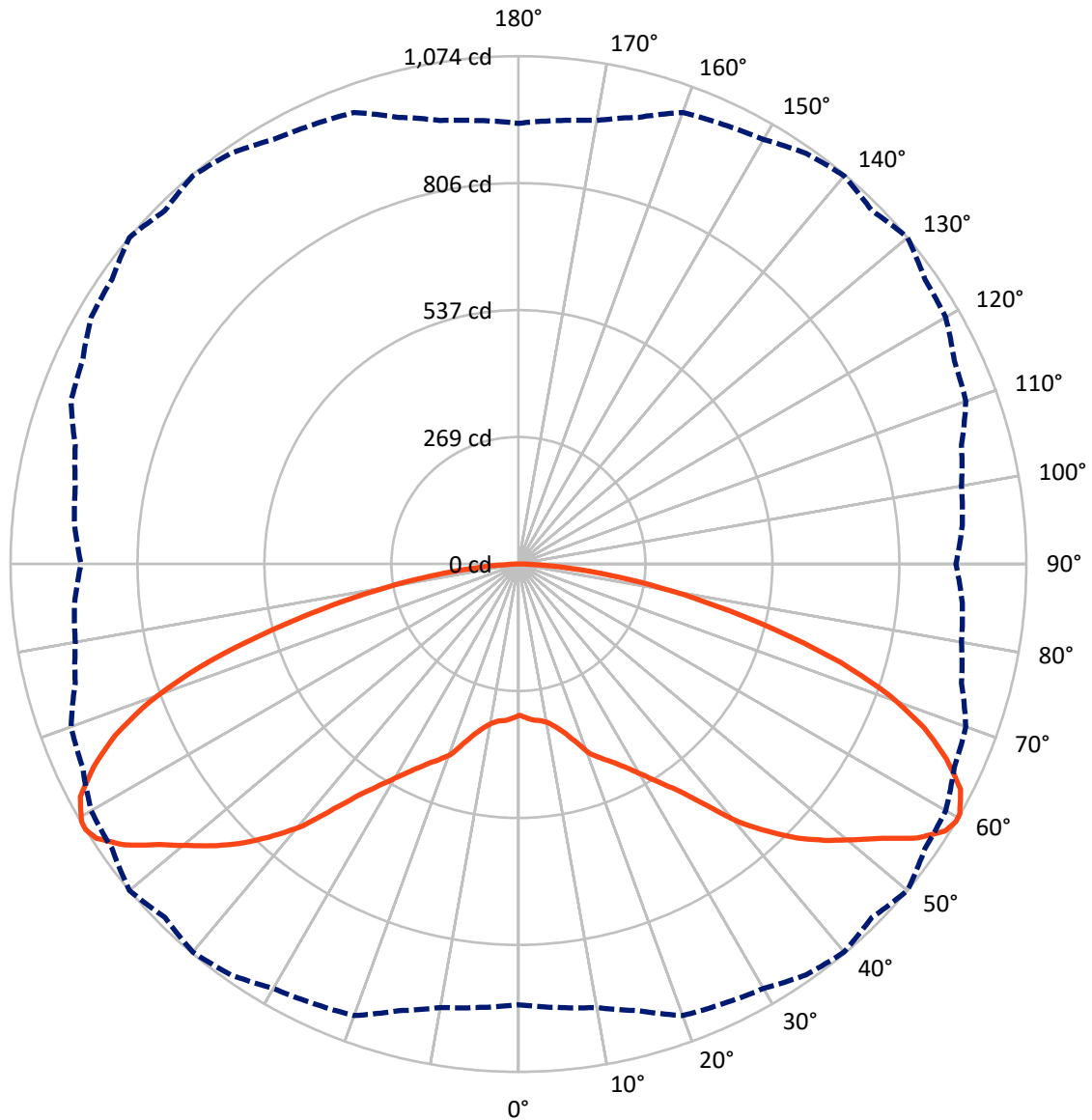


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197802

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-CG-LWR-LW

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

REPORT NUMBER: P197802

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-CG-LWR-LW

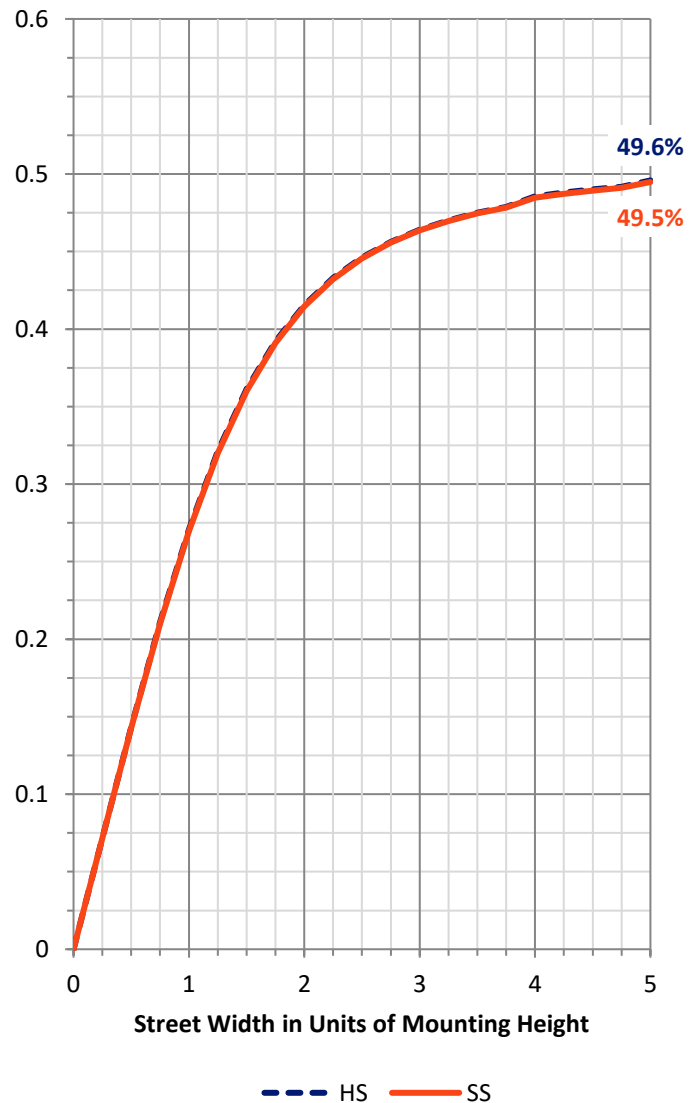
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1921.3 | 0.0 | 1921.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1921.3 | 0.0 | 1921.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3842.7 | 0.0 | 3842.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.8 | 0.8 |
| 10°-20° | 107.3 | 2.8 |
| 20°-30° | 216.0 | 5.6 |
| 30°-40° | 371.7 | 9.7 |
| 40°-50° | 613.6 | 16.0 |
| 50°-60° | 864.0 | 22.5 |
| 60°-70° | 924.3 | 24.1 |
| 70°-80° | 587.1 | 15.3 |
| 80°-90° | 126.9 | 3.3 |
| 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° | 3842.7 | 100.0 |
| 0°-180° | 3842.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P197802

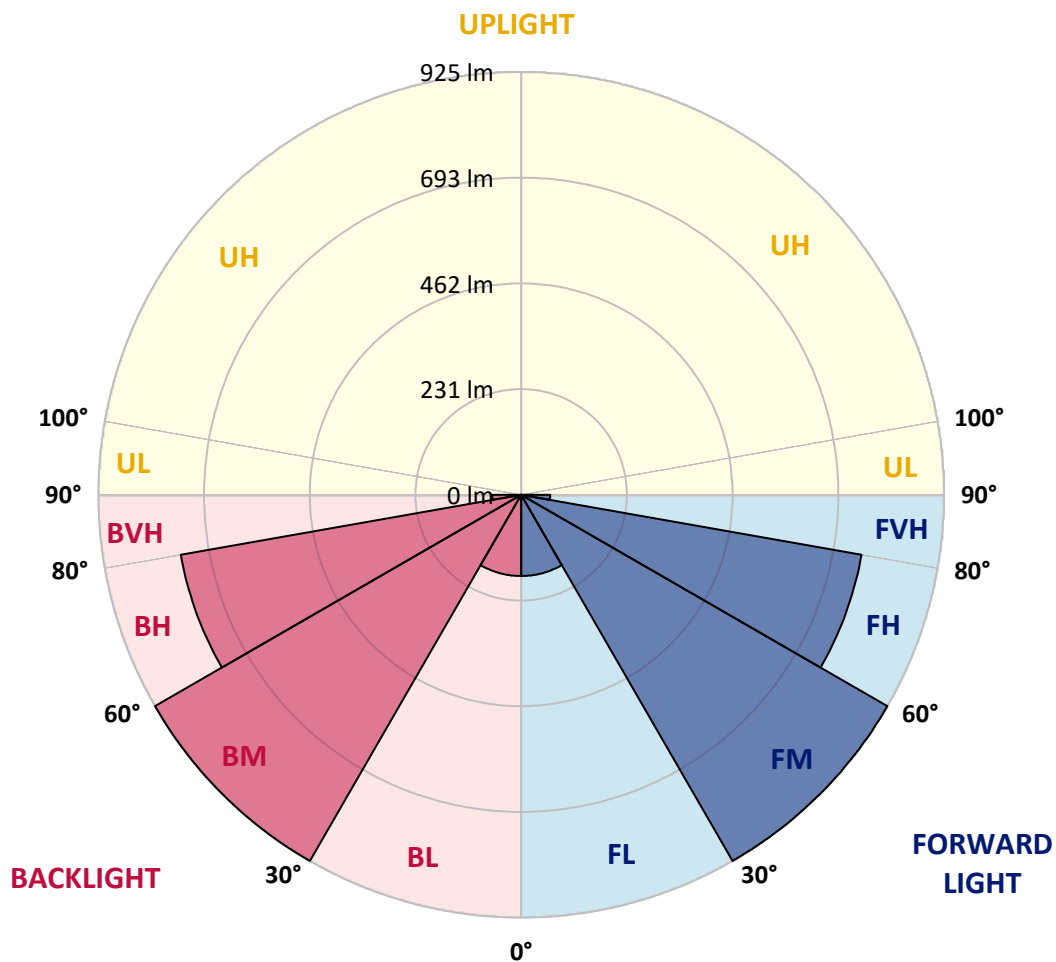
CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-CG-LWR-LW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 177.5 | 4.6 | | | |
| FM | (30°-60°) | 924.6 | 24.1 | | | |
| FH | (60°-80°) | 755.7 | 19.7 | | | G1/1800 |
| FVH | (80°-90°) | 63.4 | 1.7 | | | G1/100 |
| BL | (0°-30°) | 177.5 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 924.6 | 24.1 | B1/1000 | | |
| BH | (60°-80°) | 755.7 | 19.7 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 63.4 | 1.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P197802

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-CG-LWR-LW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 |
| 2.5° | 326.6 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 |
| 5° | 328.3 | 328.3 | 329.2 | 329.2 | 330.0 | 330.0 | 330.0 | 330.9 | 330.9 | 330.9 | 331.7 |
| 7.5° | 331.7 | 330.9 | 331.7 | 331.7 | 331.7 | 332.6 | 332.6 | 332.6 | 333.4 | 334.3 | 334.3 |
| 10° | 342.8 | 341.9 | 342.8 | 342.8 | 342.8 | 341.1 | 341.1 | 341.9 | 341.1 | 341.1 | 341.1 |
| 12.5° | 355.5 | 355.5 | 356.4 | 357.2 | 357.2 | 356.4 | 355.5 | 354.7 | 353.8 | 353.8 | 353.8 |
| 15° | 367.4 | 368.3 | 369.1 | 370.8 | 371.7 | 371.7 | 372.5 | 373.4 | 372.5 | 372.5 | 371.7 |
| 17.5° | 386.2 | 387.9 | 388.7 | 389.6 | 389.6 | 389.6 | 391.3 | 393.8 | 396.4 | 398.1 | 396.4 |
| 20° | 417.6 | 418.5 | 420.2 | 420.2 | 419.3 | 420.2 | 421.9 | 422.7 | 424.4 | 426.1 | 427.0 |
| 22.5° | 438.9 | 440.6 | 443.1 | 443.1 | 442.3 | 443.1 | 444.8 | 444.8 | 443.1 | 444.0 | 445.7 |
| 25° | 456.7 | 457.6 | 459.3 | 460.2 | 461.0 | 465.3 | 468.7 | 467.8 | 464.4 | 465.3 | 464.4 |
| 27.5° | 478.0 | 479.7 | 481.4 | 481.4 | 481.4 | 484.0 | 487.4 | 489.1 | 491.6 | 490.8 | 488.2 |
| 30° | 506.1 | 508.6 | 509.5 | 508.6 | 510.3 | 512.9 | 512.0 | 513.7 | 518.0 | 522.2 | 517.1 |
| 32.5° | 528.2 | 530.7 | 533.3 | 536.7 | 542.7 | 546.1 | 544.4 | 545.2 | 547.8 | 551.2 | 551.2 |
| 35° | 561.4 | 565.6 | 567.3 | 568.2 | 574.1 | 580.9 | 586.0 | 590.3 | 589.4 | 586.9 | 591.1 |
| 37.5° | 611.5 | 615.8 | 617.5 | 620.9 | 628.6 | 630.3 | 637.9 | 648.1 | 651.5 | 648.1 | 648.1 |
| 40° | 665.1 | 669.4 | 677.9 | 685.5 | 697.5 | 700.0 | 709.4 | 713.6 | 722.1 | 723.0 | 717.9 |
| 42.5° | 709.4 | 714.5 | 716.2 | 728.9 | 745.1 | 757.0 | 767.2 | 768.1 | 774.0 | 779.1 | 773.2 |
| 45° | 757.0 | 761.2 | 763.8 | 775.7 | 784.2 | 798.7 | 814.8 | 821.6 | 824.2 | 823.3 | 826.7 |
| 47.5° | 801.2 | 807.2 | 809.7 | 819.1 | 829.3 | 841.2 | 850.6 | 870.1 | 874.4 | 865.9 | 873.5 |
| 50° | 828.4 | 835.2 | 841.2 | 861.6 | 879.5 | 888.8 | 896.5 | 912.6 | 922.0 | 914.3 | 916.9 |
| 52.5° | 871.0 | 872.7 | 877.8 | 886.3 | 912.6 | 944.1 | 952.6 | 957.7 | 971.3 | 975.6 | 963.7 |
| 55° | 928.8 | 934.8 | 939.0 | 950.1 | 961.1 | 983.2 | 1020.7 | 1027.5 | 1024.1 | 1044.5 | 1023.2 |
| 57.5° | 937.3 | 948.4 | 961.1 | 985.8 | 1007.9 | 1014.7 | 1036.8 | 1063.2 | 1060.6 | 1063.2 | 1064.9 |
| 59° | 932.2 | 941.6 | 952.6 | 978.1 | 1016.4 | 1025.8 | 1036.8 | 1060.6 | 1071.7 | 1057.2 | 1074.3 |
| 60° | 933.9 | 940.7 | 946.7 | 967.1 | 1007.9 | 1029.2 | 1036.0 | 1050.4 | 1071.7 | 1052.1 | 1072.6 |
| 62.5° | 927.1 | 935.6 | 942.4 | 954.3 | 973.9 | 1003.7 | 1030.0 | 1023.2 | 1053.8 | 1038.5 | 1049.6 |
| 65° | 890.5 | 899.9 | 913.5 | 930.5 | 953.5 | 962.0 | 988.3 | 1002.8 | 996.0 | 1013.0 | 995.2 |
| 67.5° | 829.3 | 837.8 | 846.3 | 866.7 | 892.2 | 903.3 | 910.1 | 936.5 | 927.1 | 946.7 | 926.3 |
| 70° | 747.6 | 757.0 | 768.9 | 780.0 | 802.9 | 812.3 | 819.9 | 831.8 | 835.2 | 835.2 | 833.5 |
| 72.5° | 649.8 | 657.5 | 665.1 | 676.2 | 689.8 | 698.3 | 701.7 | 704.3 | 717.9 | 712.8 | 713.6 |
| 75° | 539.3 | 546.9 | 550.3 | 554.6 | 563.9 | 563.1 | 566.5 | 564.8 | 573.3 | 569.9 | 568.2 |
| 77.5° | 421.9 | 424.4 | 433.8 | 433.8 | 431.2 | 435.5 | 431.2 | 428.7 | 427.0 | 428.7 | 428.7 |
| 80° | 292.6 | 300.2 | 306.2 | 310.5 | 312.2 | 310.5 | 311.3 | 307.9 | 307.9 | 305.3 | 306.2 |
| 82.5° | 180.3 | 188.0 | 190.5 | 194.8 | 195.6 | 195.6 | 195.6 | 193.1 | 193.9 | 191.4 | 193.1 |
| 85° | 88.5 | 88.5 | 91.9 | 96.1 | 97.0 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 99.5 |
| 87.5° | 22.1 | 22.1 | 23.8 | 26.4 | 26.4 | 27.2 | 28.1 | 28.9 | 28.9 | 29.8 | 29.8 |
| 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: P197802

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-CG-LWR-LW

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 | 319.8 |
| 2.5° | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 | 325.8 |
| 5° | 331.7 | 330.9 | 330.9 | 330.0 | 330.0 | 329.2 | 329.2 | 329.2 |
| 7.5° | 335.1 | 335.1 | 334.3 | 333.4 | 332.6 | 332.6 | 333.4 | 333.4 |
| 10° | 341.9 | 343.6 | 344.5 | 344.5 | 343.6 | 343.6 | 342.8 | 342.8 |
| 12.5° | 353.0 | 354.7 | 356.4 | 358.1 | 358.1 | 357.2 | 355.5 | 354.7 |
| 15° | 370.0 | 370.0 | 370.8 | 371.7 | 371.7 | 370.0 | 366.6 | 366.6 |
| 17.5° | 393.0 | 391.3 | 388.7 | 389.6 | 390.4 | 389.6 | 386.2 | 387.9 |
| 20° | 424.4 | 421.0 | 419.3 | 417.6 | 421.0 | 421.0 | 415.9 | 415.9 |
| 22.5° | 447.4 | 444.8 | 440.6 | 439.7 | 442.3 | 444.0 | 439.7 | 437.2 |
| 25° | 467.0 | 467.8 | 462.7 | 460.2 | 461.0 | 461.9 | 455.9 | 456.7 |
| 27.5° | 488.2 | 489.1 | 486.5 | 482.3 | 480.6 | 483.1 | 478.9 | 477.2 |
| 30° | 513.7 | 512.9 | 514.6 | 509.5 | 505.2 | 507.8 | 507.8 | 503.5 |
| 32.5° | 546.9 | 544.4 | 545.2 | 539.3 | 534.1 | 533.3 | 529.9 | 524.8 |
| 35° | 592.0 | 585.2 | 580.1 | 576.7 | 567.3 | 565.6 | 565.6 | 559.7 |
| 37.5° | 650.7 | 640.5 | 631.1 | 631.1 | 616.7 | 612.4 | 615.0 | 607.3 |
| 40° | 716.2 | 712.8 | 698.3 | 695.8 | 680.4 | 670.2 | 670.2 | 660.9 |
| 42.5° | 763.8 | 768.1 | 751.0 | 740.8 | 730.6 | 714.5 | 716.2 | 704.3 |
| 45° | 815.7 | 813.1 | 798.7 | 780.8 | 777.4 | 760.4 | 762.1 | 750.2 |
| 47.5° | 865.0 | 849.7 | 842.9 | 825.0 | 817.4 | 797.8 | 803.8 | 794.4 |
| 50° | 912.6 | 895.6 | 888.8 | 867.6 | 857.4 | 836.1 | 836.9 | 819.9 |
| 52.5° | 962.0 | 946.7 | 936.5 | 909.2 | 891.4 | 876.1 | 872.7 | 865.0 |
| 55° | 1025.8 | 1009.6 | 984.9 | 959.4 | 945.8 | 923.7 | 926.3 | 914.3 |
| 57.5° | 1050.4 | 1040.2 | 1013.9 | 998.6 | 973.0 | 950.9 | 945.8 | 924.6 |
| 59° | 1049.6 | 1043.6 | 1017.3 | 1007.1 | 970.5 | 951.8 | 942.4 | 925.4 |
| 60° | 1043.6 | 1041.9 | 1015.6 | 1002.8 | 964.5 | 947.5 | 939.0 | 928.0 |
| 62.5° | 1025.8 | 1024.9 | 995.2 | 979.8 | 948.4 | 934.8 | 929.7 | 915.2 |
| 65° | 999.4 | 984.9 | 962.0 | 951.8 | 919.5 | 909.2 | 894.8 | 880.3 |
| 67.5° | 936.5 | 904.1 | 900.7 | 888.0 | 859.9 | 847.2 | 837.8 | 824.2 |
| 70° | 832.7 | 811.4 | 811.4 | 795.3 | 775.7 | 769.8 | 757.0 | 741.7 |
| 72.5° | 703.4 | 698.3 | 700.9 | 682.1 | 672.8 | 669.4 | 658.3 | 644.7 |
| 75° | 562.2 | 563.1 | 560.5 | 556.3 | 553.7 | 554.6 | 542.7 | 536.7 |
| 77.5° | 426.1 | 433.8 | 432.1 | 426.1 | 432.1 | 431.2 | 421.0 | 418.5 |
| 80° | 303.6 | 307.1 | 308.8 | 305.3 | 308.8 | 306.2 | 297.7 | 296.8 |
| 82.5° | 191.4 | 192.2 | 193.9 | 190.5 | 191.4 | 190.5 | 184.6 | 184.6 |
| 85° | 97.8 | 101.2 | 97.0 | 93.6 | 93.6 | 90.2 | 88.5 | 89.3 |
| 87.5° | 28.9 | 30.6 | 27.2 | 27.2 | 25.5 | 23.8 | 23.0 | 23.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)