

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: P197898

Luminaire Tested: **TT-C2-LED-E1-5WQ-PM-SG-MS/DIM**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)  
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-SG-MS/DIM  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR  
Light Source: (168) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4065.3 lumens  
Efficiency: N/A  
Efficacy: 119.6 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

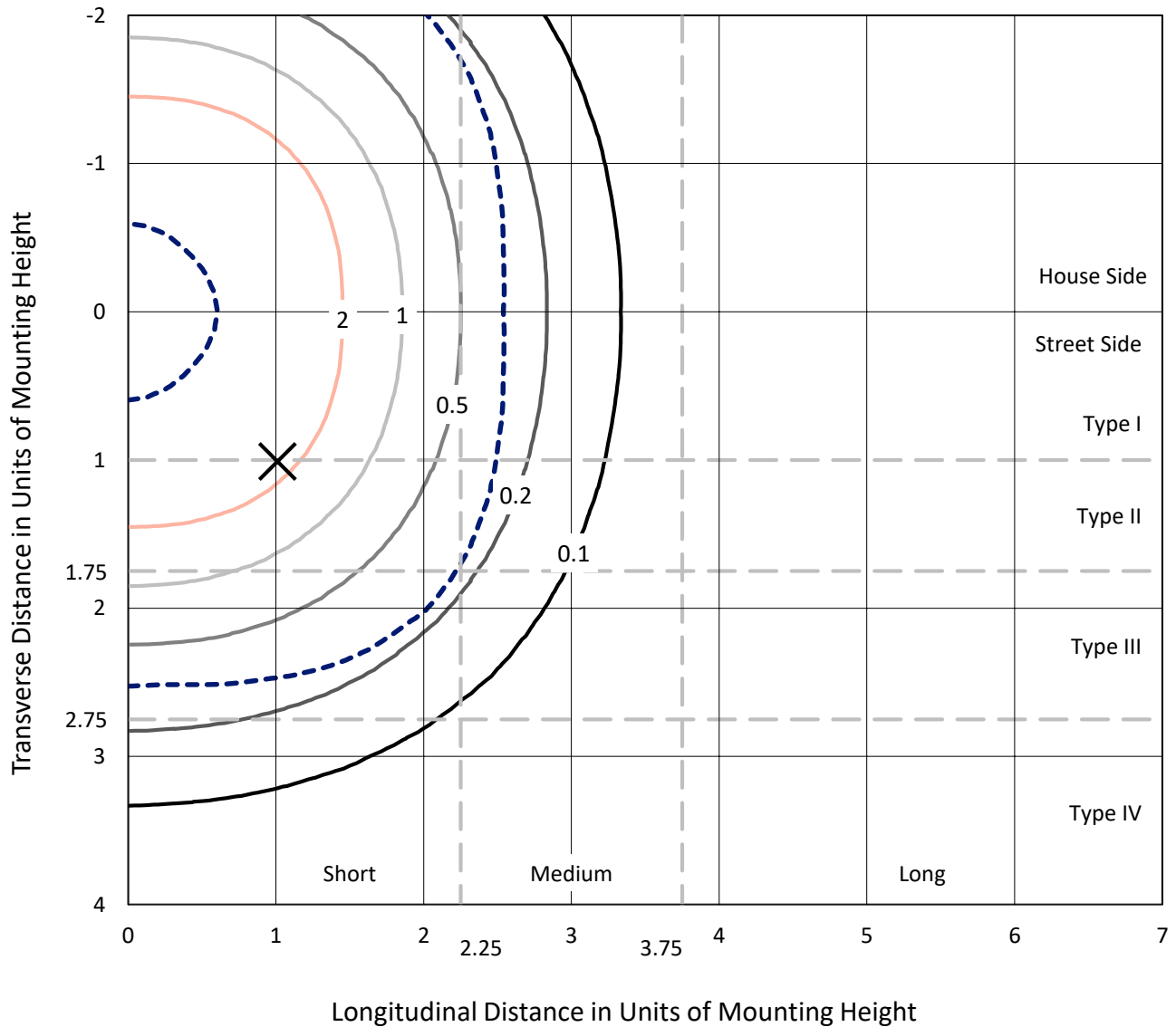


REPORT NUMBER: P197898

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-SG-MS/DIM

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

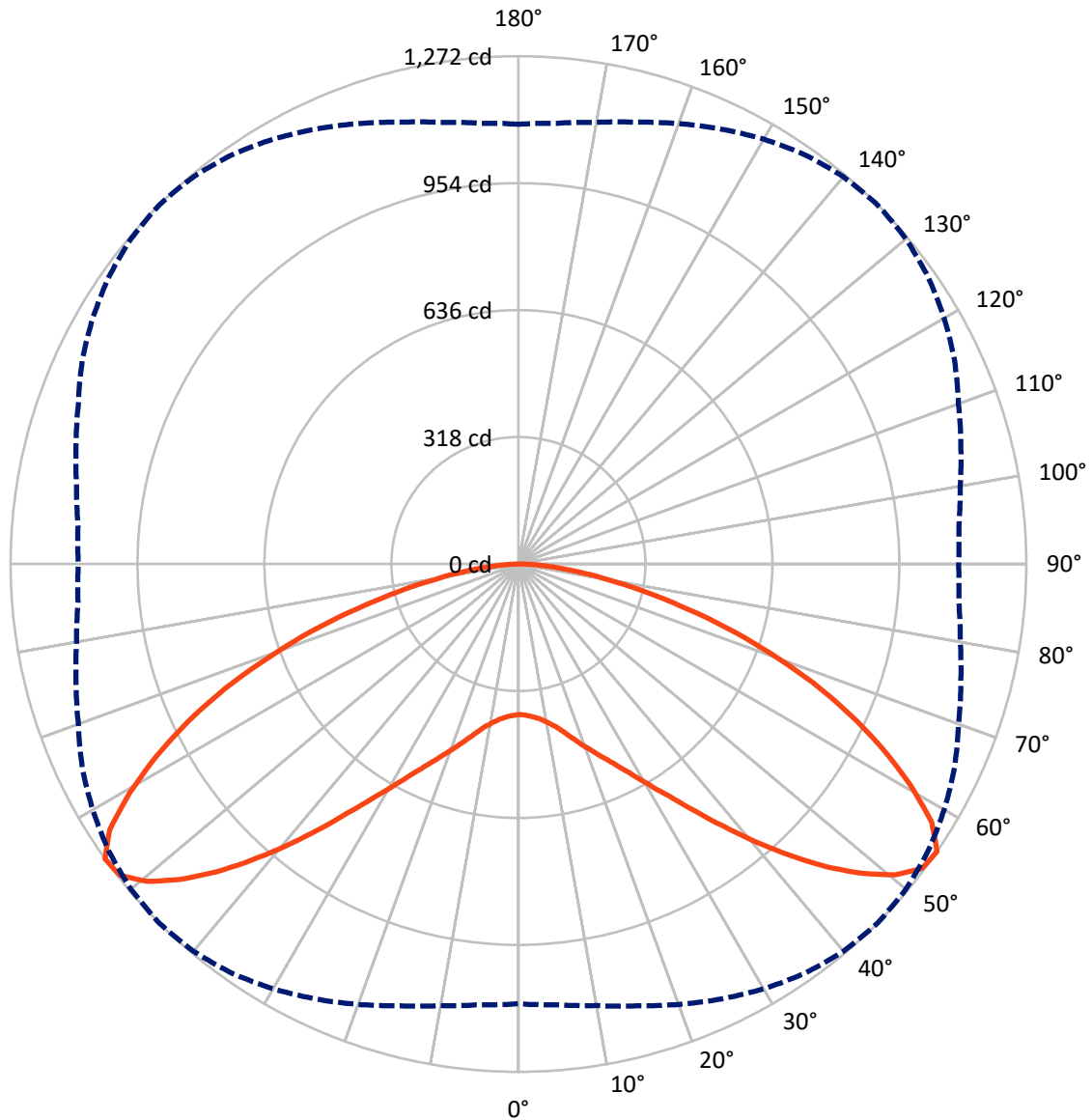


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P197898

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-SG-MS/DIM

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P197898

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-SG-MS/DIM

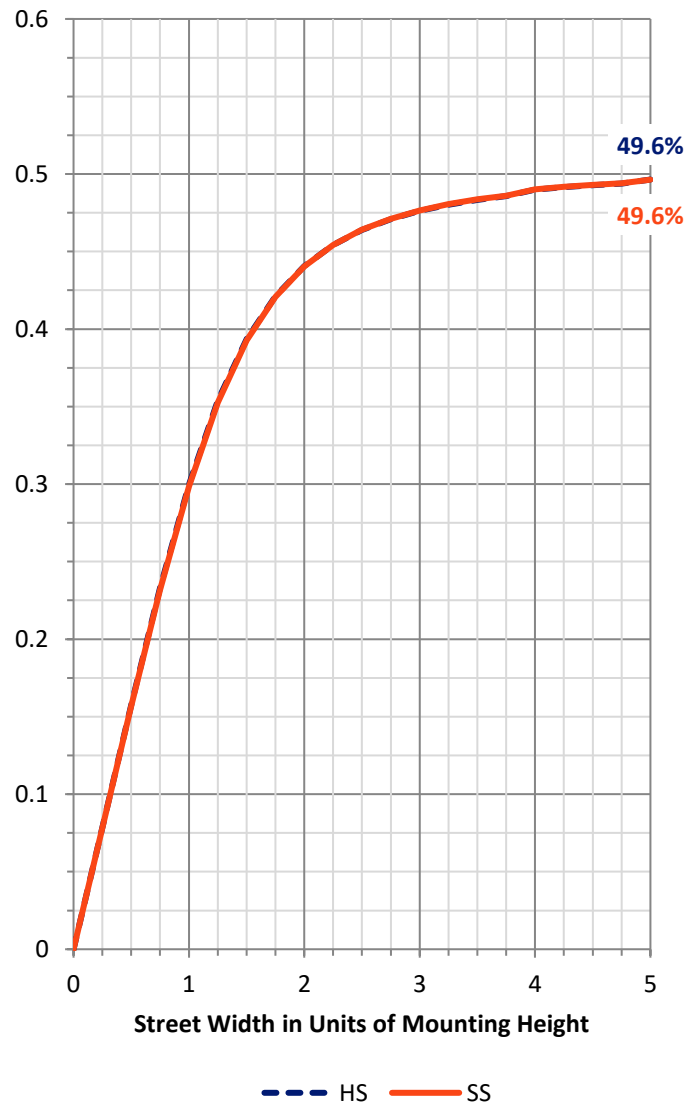
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2032.7   | 0.0    | 2032.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2032.7   | 0.0    | 2032.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4065.3   | 0.0    | 4065.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.2   | 0.9       |
| 10°-20°   | 126.2  | 3.1       |
| 20°-30°   | 257.0  | 6.3       |
| 30°-40°   | 469.3  | 11.5      |
| 40°-50°   | 796.9  | 19.6      |
| 50°-60°   | 1037.8 | 25.5      |
| 60°-70°   | 839.3  | 20.6      |
| 70°-80°   | 412.4  | 10.1      |
| 80°-90°   | 89.3   | 2.2       |
| 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°    | 4065.3 | 100.0     |
| 0°-180°   | 4065.3 | 100.0     |



REPORT NUMBER: P197898

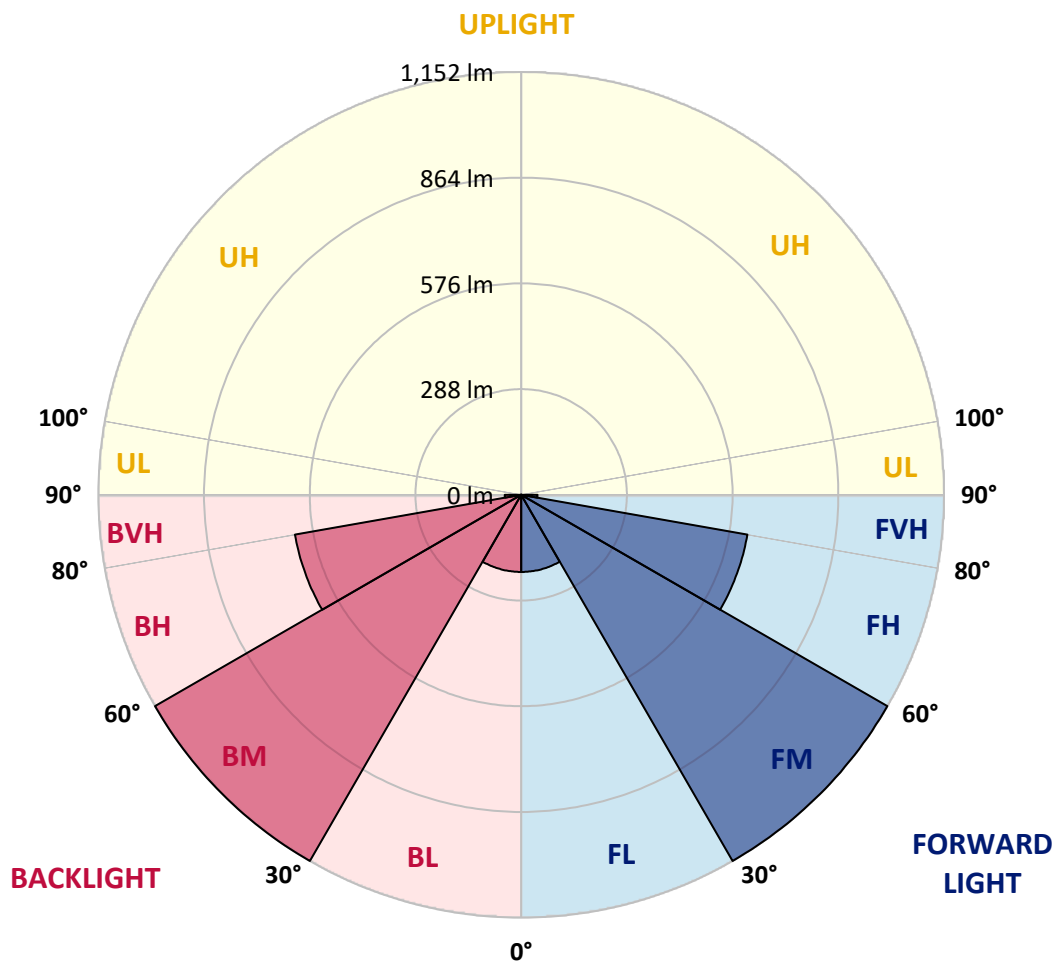
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 210.2  | 5.2       |                         |      |        |
| FM   | (30°-60°)   | 1152.0 | 28.3      |                         |      |        |
| FH   | (60°-80°)   | 625.9  | 15.4      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 44.6   | 1.1       |                         |      | G1/100 |
| BL   | (0°-30°)    | 210.2  | 5.2       | B1/500                  |      |        |
| BM   | (30°-60°)   | 1152.0 | 28.3      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 625.9  | 15.4      | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 44.6   | 1.1       |                         |      | 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: P197898

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-SG-MS/DIM

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  |
| 2.5°  | 378.3  | 378.3  | 378.3  | 378.3  | 378.3  | 378.3  | 379.2  | 379.2  | 379.2  | 379.2  | 379.2  |
| 5°    | 383.3  | 383.3  | 383.3  | 384.2  | 384.2  | 384.2  | 384.2  | 384.2  | 384.2  | 384.2  | 384.2  |
| 7.5°  | 390.8  | 390.0  | 390.8  | 390.8  | 390.8  | 391.7  | 391.7  | 390.8  | 391.7  | 391.7  | 391.7  |
| 10°   | 401.6  | 400.8  | 401.6  | 401.6  | 401.6  | 402.5  | 402.5  | 402.5  | 402.5  | 403.3  | 403.3  |
| 12.5° | 417.4  | 416.6  | 417.4  | 418.3  | 417.4  | 418.3  | 418.3  | 418.3  | 418.3  | 418.3  | 418.3  |
| 15°   | 437.4  | 436.6  | 437.4  | 438.2  | 437.4  | 439.0  | 439.0  | 438.2  | 438.2  | 439.0  | 439.0  |
| 17.5° | 461.5  | 459.9  | 460.6  | 461.5  | 461.5  | 463.2  | 463.2  | 462.3  | 463.2  | 464.0  | 463.2  |
| 20°   | 486.4  | 484.8  | 485.7  | 488.1  | 488.1  | 489.0  | 490.6  | 489.8  | 490.6  | 491.4  | 490.6  |
| 22.5° | 513.9  | 513.0  | 513.9  | 516.4  | 516.4  | 517.2  | 519.7  | 519.7  | 519.7  | 520.5  | 519.7  |
| 25°   | 543.8  | 543.0  | 543.8  | 546.3  | 546.3  | 548.0  | 551.3  | 551.3  | 552.2  | 553.0  | 552.2  |
| 27.5° | 578.8  | 577.9  | 579.5  | 582.1  | 583.0  | 585.4  | 589.6  | 590.4  | 591.2  | 592.1  | 590.4  |
| 30°   | 619.5  | 617.8  | 620.3  | 624.5  | 626.2  | 629.5  | 634.5  | 636.1  | 637.0  | 639.4  | 637.8  |
| 32.5° | 666.0  | 664.4  | 667.7  | 672.7  | 675.2  | 680.2  | 686.9  | 688.5  | 691.0  | 692.7  | 690.2  |
| 35°   | 720.9  | 720.1  | 723.5  | 730.9  | 735.1  | 740.9  | 750.1  | 752.5  | 754.2  | 757.6  | 754.2  |
| 37.5° | 781.6  | 780.8  | 786.7  | 795.0  | 802.5  | 811.6  | 821.5  | 825.7  | 828.2  | 832.4  | 828.2  |
| 40°   | 849.0  | 848.1  | 855.6  | 865.7  | 874.8  | 886.4  | 898.9  | 904.7  | 909.7  | 913.9  | 908.9  |
| 42.5° | 918.1  | 918.1  | 927.2  | 938.0  | 951.3  | 965.4  | 979.6  | 986.2  | 994.5  | 997.0  | 991.2  |
| 45°   | 984.6  | 985.3  | 994.5  | 1007.8 | 1026.9 | 1045.2 | 1061.0 | 1069.4 | 1078.5 | 1081.0 | 1073.5 |
| 47.5° | 1047.8 | 1048.6 | 1056.9 | 1074.4 | 1096.0 | 1116.7 | 1135.9 | 1147.5 | 1156.6 | 1157.5 | 1151.7 |
| 50°   | 1099.3 | 1102.6 | 1113.4 | 1129.2 | 1151.7 | 1173.3 | 1196.6 | 1211.6 | 1220.7 | 1223.2 | 1217.4 |
| 52.5° | 1119.3 | 1125.1 | 1137.6 | 1157.5 | 1183.3 | 1205.7 | 1231.5 | 1250.6 | 1261.4 | 1265.6 | 1260.7 |
| 55°   | 1100.9 | 1107.6 | 1122.6 | 1145.1 | 1173.3 | 1201.5 | 1228.2 | 1250.6 | 1265.6 | 1271.5 | 1266.4 |
| 57.5° | 1060.2 | 1061.0 | 1076.0 | 1098.5 | 1124.2 | 1153.3 | 1179.1 | 1199.9 | 1214.0 | 1219.9 | 1219.1 |
| 60°   | 989.5  | 989.5  | 1003.7 | 1025.3 | 1045.2 | 1075.2 | 1096.8 | 1112.6 | 1122.6 | 1129.2 | 1127.5 |
| 62.5° | 894.8  | 894.8  | 907.2  | 929.6  | 949.6  | 975.4  | 996.2  | 1012.8 | 1019.4 | 1026.9 | 1028.6 |
| 65°   | 789.1  | 789.1  | 800.8  | 823.2  | 841.5  | 864.8  | 884.7  | 900.5  | 907.2  | 916.4  | 914.7  |
| 67.5° | 676.9  | 676.1  | 686.9  | 705.9  | 723.5  | 745.1  | 764.2  | 779.2  | 786.7  | 797.5  | 790.0  |
| 70°   | 561.3  | 561.3  | 570.4  | 585.4  | 597.8  | 619.5  | 637.8  | 652.8  | 658.6  | 667.7  | 663.6  |
| 72.5° | 451.5  | 450.7  | 458.2  | 469.8  | 479.8  | 498.9  | 509.7  | 526.4  | 531.3  | 543.8  | 537.2  |
| 75°   | 352.5  | 350.9  | 356.7  | 365.0  | 371.7  | 384.2  | 392.5  | 405.8  | 410.0  | 418.3  | 415.0  |
| 77.5° | 265.3  | 264.4  | 266.9  | 272.8  | 277.7  | 287.7  | 291.1  | 297.7  | 301.0  | 309.3  | 302.7  |
| 80°   | 190.4  | 188.0  | 190.4  | 193.8  | 195.5  | 202.9  | 203.7  | 206.3  | 207.9  | 213.7  | 207.0  |
| 82.5° | 128.1  | 124.8  | 126.4  | 128.9  | 128.9  | 133.0  | 133.9  | 133.0  | 136.3  | 138.0  | 134.7  |
| 85°   | 73.1   | 70.7   | 71.5   | 73.1   | 72.4   | 74.8   | 74.8   | 74.0   | 76.5   | 76.5   | 74.8   |
| 87.5° | 24.2   | 22.5   | 23.3   | 24.2   | 24.2   | 24.9   | 25.8   | 24.9   | 26.6   | 26.6   | 24.9   |
| 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: P197898

CATALOG NUMBER: TT-C2-LED-E1-5WQ-PM-SG-MS/DIM

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  | 376.7  |
| 2.5°  | 379.2  | 379.2  | 379.2  | 379.2  | 379.2  | 379.2  | 379.2  | 379.2  |
| 5°    | 384.2  | 384.2  | 384.2  | 384.2  | 384.2  | 383.3  | 383.3  | 383.3  |
| 7.5°  | 391.7  | 391.7  | 391.7  | 391.7  | 391.7  | 390.8  | 390.8  | 390.8  |
| 10°   | 403.3  | 402.5  | 402.5  | 402.5  | 402.5  | 401.6  | 402.5  | 401.6  |
| 12.5° | 418.3  | 419.1  | 419.1  | 418.3  | 419.1  | 417.4  | 417.4  | 417.4  |
| 15°   | 439.0  | 438.2  | 438.2  | 438.2  | 438.2  | 437.4  | 437.4  | 437.4  |
| 17.5° | 462.3  | 462.3  | 461.5  | 461.5  | 460.6  | 459.9  | 459.9  | 459.9  |
| 20°   | 489.8  | 489.0  | 488.1  | 487.3  | 486.4  | 484.8  | 484.0  | 484.0  |
| 22.5° | 518.1  | 517.2  | 516.4  | 515.6  | 514.7  | 513.0  | 511.4  | 511.4  |
| 25°   | 549.6  | 548.0  | 547.1  | 545.5  | 543.8  | 542.1  | 541.4  | 540.5  |
| 27.5° | 587.9  | 586.3  | 583.7  | 581.3  | 577.9  | 577.1  | 575.5  | 575.5  |
| 30°   | 633.6  | 631.2  | 627.8  | 623.7  | 620.3  | 617.0  | 615.4  | 614.5  |
| 32.5° | 686.9  | 683.6  | 677.7  | 672.7  | 666.9  | 663.6  | 661.1  | 659.4  |
| 35°   | 749.2  | 744.2  | 737.6  | 730.1  | 722.6  | 716.8  | 712.7  | 712.7  |
| 37.5° | 822.4  | 814.9  | 804.9  | 795.8  | 785.0  | 778.3  | 773.3  | 770.0  |
| 40°   | 902.2  | 891.4  | 878.9  | 867.3  | 854.9  | 845.7  | 838.2  | 839.0  |
| 42.5° | 981.3  | 972.1  | 957.1  | 943.0  | 927.2  | 914.7  | 905.6  | 904.7  |
| 45°   | 1064.4 | 1052.7 | 1034.4 | 1016.1 | 997.8  | 982.9  | 972.1  | 970.4  |
| 47.5° | 1141.7 | 1129.2 | 1107.6 | 1085.2 | 1065.2 | 1048.6 | 1037.0 | 1035.3 |
| 50°   | 1204.9 | 1190.0 | 1167.5 | 1143.4 | 1121.8 | 1103.5 | 1091.0 | 1087.7 |
| 52.5° | 1245.7 | 1229.0 | 1204.9 | 1175.8 | 1152.6 | 1131.7 | 1116.7 | 1112.6 |
| 55°   | 1252.3 | 1230.7 | 1204.9 | 1172.5 | 1146.7 | 1123.4 | 1106.8 | 1101.8 |
| 57.5° | 1206.6 | 1183.3 | 1160.0 | 1131.7 | 1105.9 | 1081.0 | 1067.7 | 1061.0 |
| 60°   | 1117.6 | 1099.3 | 1080.2 | 1054.4 | 1033.6 | 1010.3 | 999.5  | 996.2  |
| 62.5° | 1015.3 | 999.5  | 982.0  | 955.5  | 938.0  | 917.2  | 907.2  | 903.1  |
| 65°   | 905.6  | 887.3  | 870.6  | 849.0  | 829.9  | 812.4  | 798.3  | 796.6  |
| 67.5° | 784.1  | 765.1  | 750.8  | 731.8  | 712.7  | 696.0  | 686.9  | 681.9  |
| 70°   | 656.1  | 640.3  | 626.2  | 605.3  | 592.9  | 577.1  | 570.4  | 565.4  |
| 72.5° | 528.9  | 519.7  | 502.2  | 489.0  | 474.8  | 462.3  | 458.2  | 453.2  |
| 75°   | 409.1  | 398.3  | 385.0  | 376.7  | 365.9  | 359.3  | 355.9  | 352.5  |
| 77.5° | 300.2  | 291.1  | 283.6  | 280.2  | 275.2  | 268.6  | 266.1  | 263.6  |
| 80°   | 207.9  | 203.7  | 198.8  | 197.9  | 194.6  | 189.6  | 188.7  | 188.0  |
| 82.5° | 134.7  | 132.3  | 130.6  | 130.6  | 128.9  | 125.5  | 124.8  | 124.8  |
| 85°   | 74.8   | 74.0   | 74.8   | 74.0   | 72.4   | 70.7   | 70.7   | 70.7   |
| 87.5° | 24.9   | 24.9   | 25.8   | 26.6   | 24.2   | 24.2   | 23.3   | 23.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)