

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: P198389

Luminaire Tested: **TT-C3-LED-E1-MQ-MS/DIM-UPL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198389  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-C3-LED-E1-MQ-MS/DIM-UPL  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR  
Light Source: (168) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6947.2 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U4 - G2

Input Watts (W): 62.4  
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



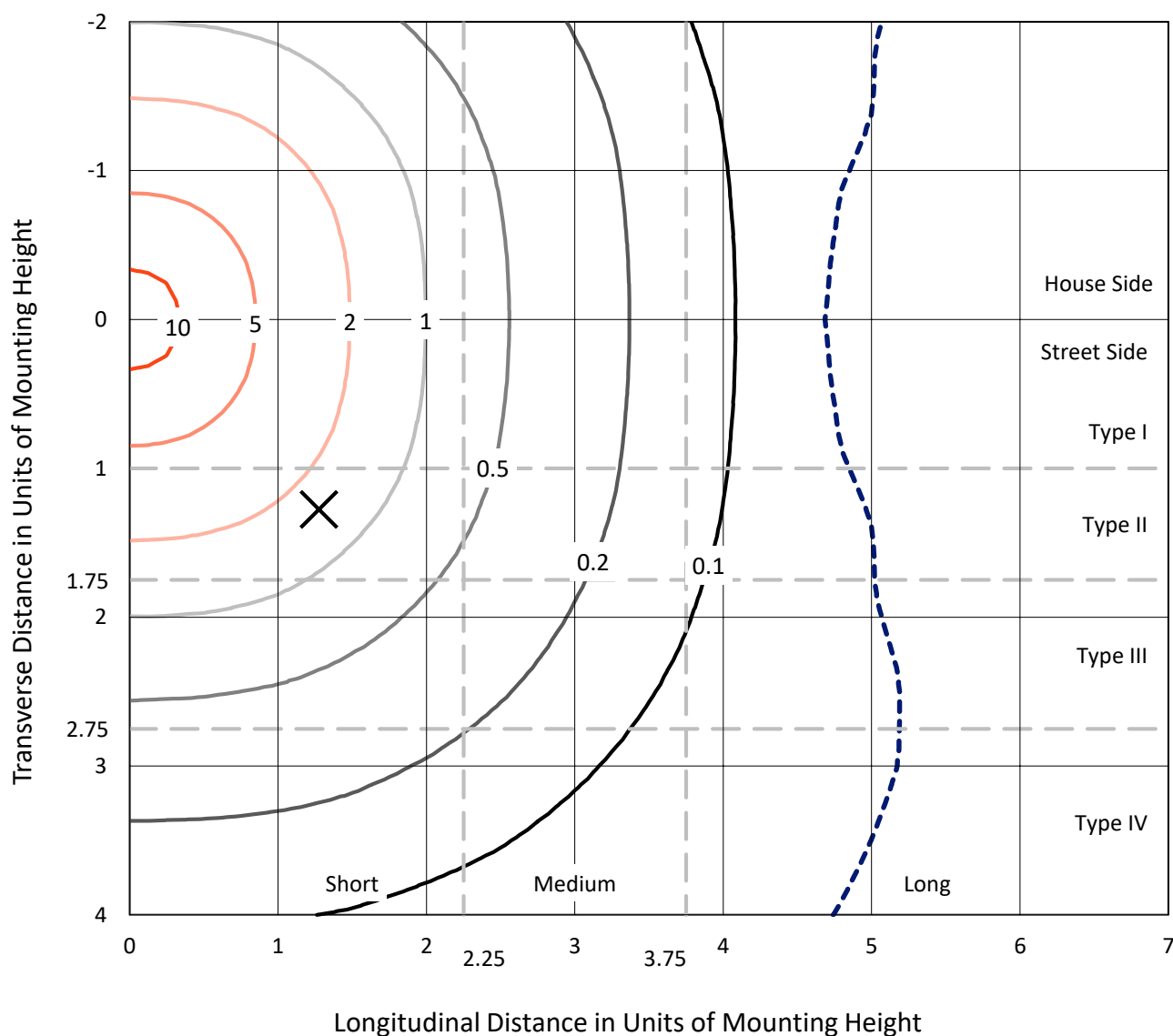
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

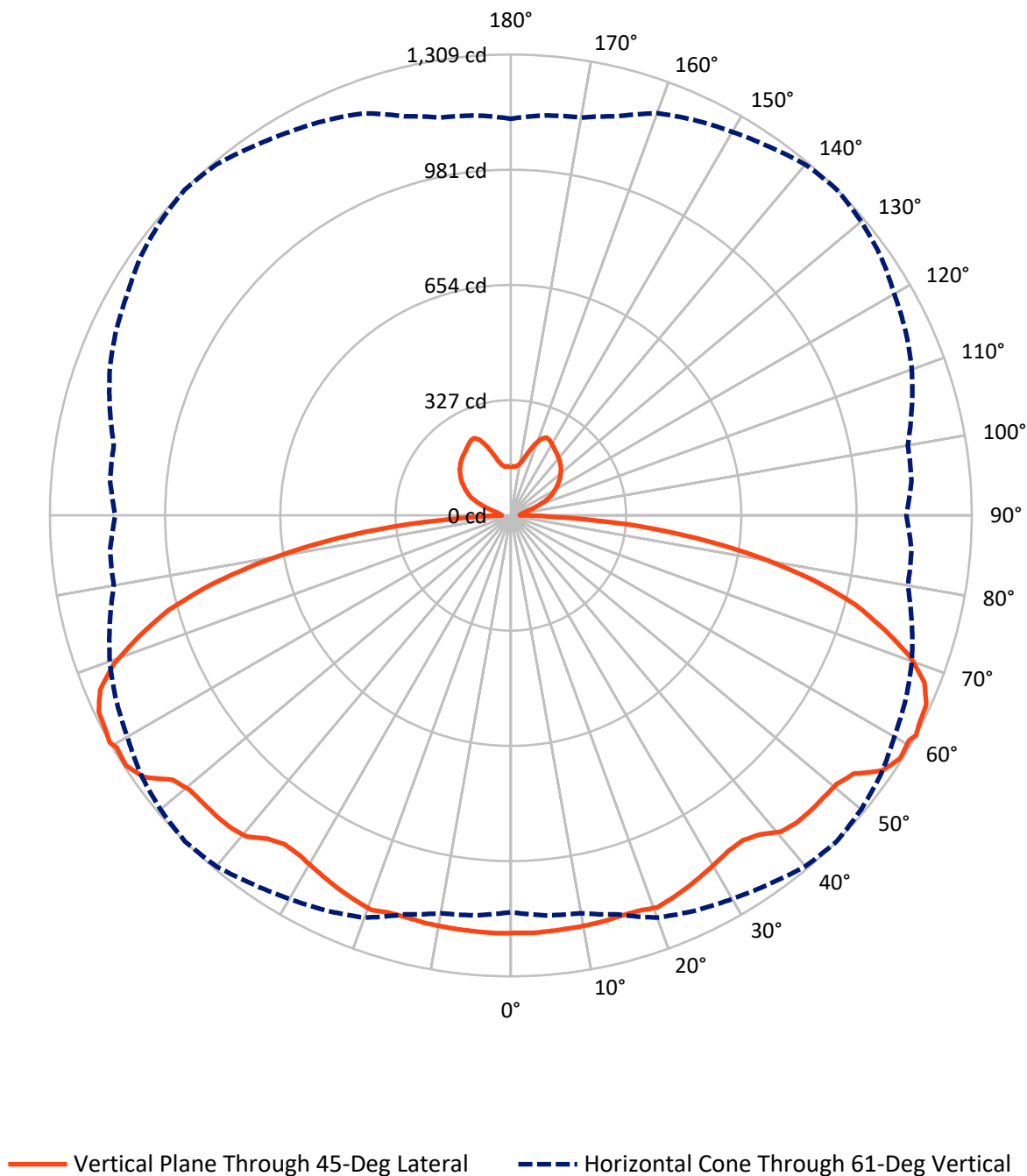


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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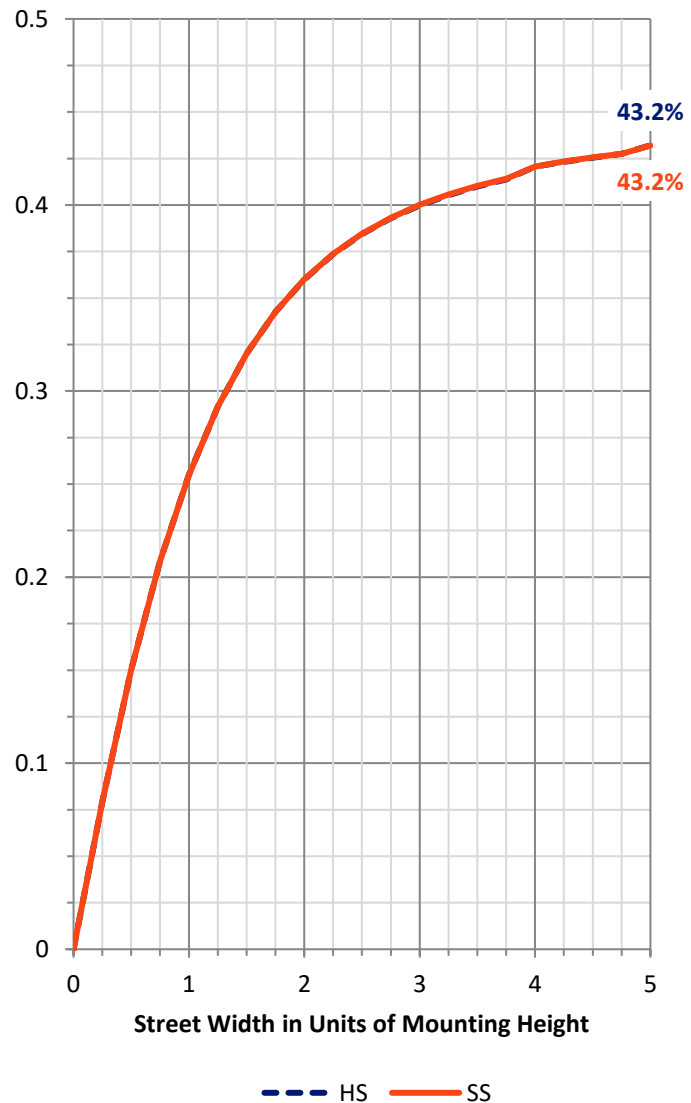
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3061.6   | 412.0  | 3473.6 |
|                    | % Fixture | 44.1     | 5.9    | 50.0   |
| <b>Street Side</b> | Lumens    | 3061.6   | 412.0  | 3473.6 |
|                    | % Fixture | 44.1     | 5.9    | 50.0   |
| <b>Total</b>       | Lumens    | 6123.3   | 824.0  | 6947.2 |
|                    | % Fixture | 88.1     | 11.9   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.1  | 1.6       |
| 10°-20°   | 334.4  | 4.8       |
| 20°-30°   | 538.0  | 7.7       |
| 30°-40°   | 712.7  | 10.3      |
| 40°-50°   | 900.0  | 13.0      |
| 50°-60°   | 1078.4 | 15.5      |
| 60°-70°   | 1179.1 | 17.0      |
| 70°-80°   | 943.9  | 13.6      |
| 80°-90°   | 323.7  | 4.7       |
| 90°-100°  | 38.3   | 0.6       |
| 100°-110° | 59.4   | 0.9       |
| 110°-120° | 119.3  | 1.7       |
| 120°-130° | 148.7  | 2.1       |
| 130°-140° | 153.2  | 2.2       |
| 140°-150° | 136.0  | 2.0       |
| 150°-160° | 103.7  | 1.5       |
| 160°-170° | 51.8   | 0.7       |
| 170°-180° | 13.6   | 0.2       |
| 0°-90°    | 6123.3 | 88.1      |
| 0°-180°   | 6947.2 | 100.0     |

**Coefficient of Utilization**



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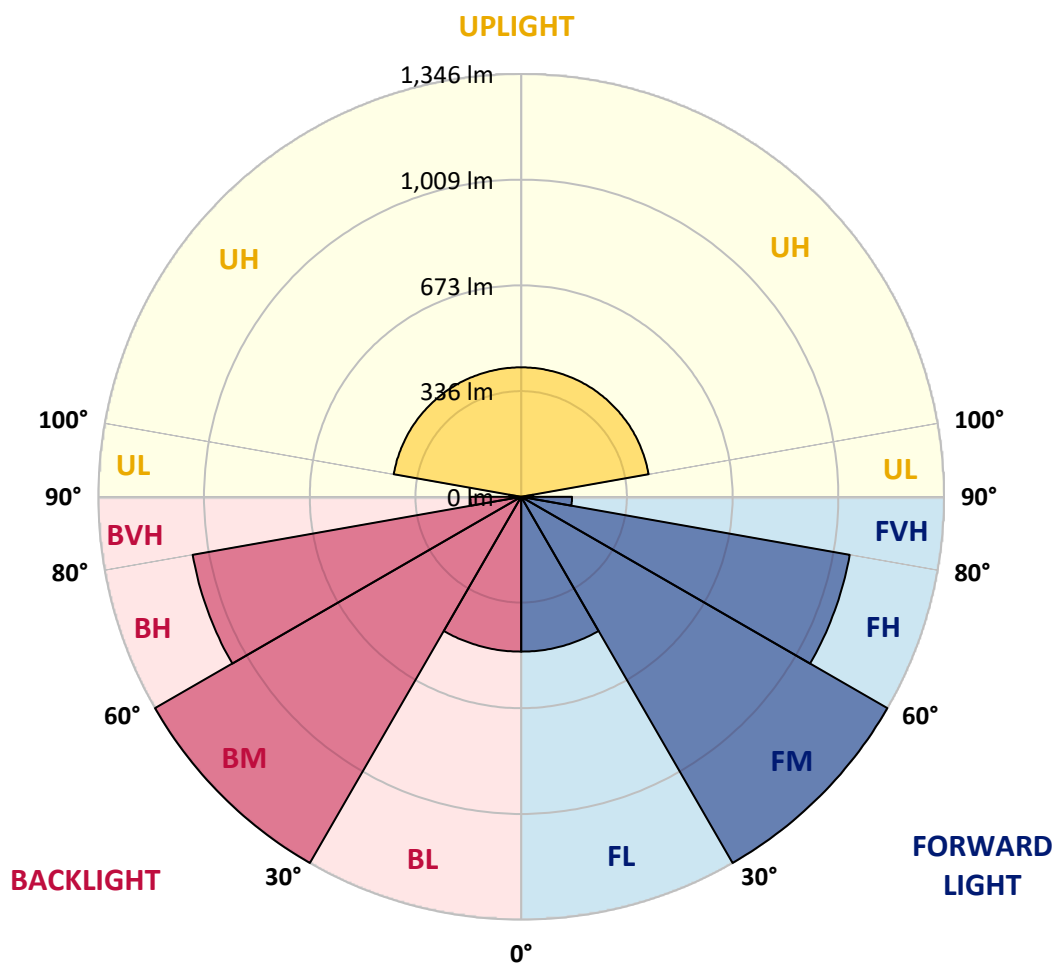
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 492.7  | 7.1       |                         |        |         |
| FM   | (30°-60°)   | 1345.5 | 19.4      |                         |        |         |
| FH   | (60°-80°)   | 1061.5 | 15.3      |                         |        | G1/1800 |
| FVH  | (80°-90°)   | 161.9  | 2.3       |                         |        | G2/225  |
| BL   | (0°-30°)    | 492.7  | 7.1       | B1/500                  |        |         |
| BM   | (30°-60°)   | 1345.5 | 19.4      | B2/2500                 |        |         |
| BH   | (60°-80°)   | 1061.5 | 15.3      | B3/2500                 |        | G1/1800 |
| BVH  | (80°-90°)   | 161.9  | 2.3       |                         |        | G2/225  |
| UL   | (90°-100°)  | 38.3   | 0.6       |                         | U2/50  |         |
| UH   | (100°-180°) | 412.0  | 5.9       |                         | U3/500 |         |

**BUG Rating: B3-U4-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 |
| 2.5°   | 1186.7 | 1185.5 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 |
| 5°     | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 |
| 7.5°   | 1184.4 | 1184.4 | 1184.4 | 1184.4 | 1184.4 | 1184.4 | 1184.4 | 1184.4 | 1185.5 | 1184.4 | 1185.5 |
| 10°    | 1182.1 | 1182.1 | 1182.1 | 1182.1 | 1183.2 | 1183.2 | 1183.2 | 1183.2 | 1183.2 | 1183.2 | 1183.2 |
| 12.5°  | 1179.8 | 1179.8 | 1179.8 | 1179.8 | 1181.0 | 1181.0 | 1181.0 | 1181.0 | 1182.1 | 1182.1 | 1181.0 |
| 15°    | 1177.5 | 1176.4 | 1176.4 | 1177.5 | 1177.5 | 1178.6 | 1178.6 | 1178.6 | 1179.8 | 1178.6 | 1178.6 |
| 17.5°  | 1175.3 | 1174.1 | 1175.3 | 1176.4 | 1176.4 | 1177.5 | 1178.6 | 1178.6 | 1179.8 | 1179.8 | 1179.8 |
| 20°    | 1178.6 | 1177.5 | 1178.6 | 1179.8 | 1181.0 | 1183.2 | 1184.4 | 1185.5 | 1186.7 | 1187.7 | 1187.7 |
| 22.5°  | 1171.9 | 1170.7 | 1171.9 | 1171.9 | 1172.9 | 1174.1 | 1176.4 | 1177.5 | 1178.6 | 1178.6 | 1178.6 |
| 25°    | 1161.6 | 1161.6 | 1162.7 | 1162.7 | 1163.8 | 1165.0 | 1166.2 | 1167.2 | 1167.2 | 1168.4 | 1167.2 |
| 27.5°  | 1150.2 | 1150.2 | 1151.4 | 1151.4 | 1153.6 | 1153.6 | 1154.7 | 1155.9 | 1157.0 | 1157.0 | 1157.0 |
| 30°    | 1136.4 | 1136.4 | 1137.6 | 1138.8 | 1141.1 | 1142.1 | 1143.3 | 1144.5 | 1145.6 | 1145.6 | 1145.6 |
| 32.5°  | 1124.0 | 1122.8 | 1124.0 | 1126.2 | 1129.7 | 1131.9 | 1134.2 | 1135.4 | 1135.4 | 1135.4 | 1136.4 |
| 35°    | 1113.7 | 1114.9 | 1117.1 | 1119.4 | 1124.0 | 1126.2 | 1128.5 | 1131.9 | 1133.1 | 1133.1 | 1133.1 |
| 37.5°  | 1115.9 | 1117.1 | 1120.6 | 1125.1 | 1130.8 | 1137.6 | 1142.1 | 1146.7 | 1150.2 | 1149.0 | 1147.9 |
| 40°    | 1130.8 | 1133.1 | 1138.8 | 1145.6 | 1154.7 | 1163.8 | 1170.7 | 1176.4 | 1179.8 | 1181.0 | 1179.8 |
| 42.5°  | 1133.1 | 1135.4 | 1139.9 | 1150.2 | 1160.5 | 1170.7 | 1179.8 | 1185.5 | 1190.1 | 1191.2 | 1190.1 |
| 45°    | 1131.9 | 1131.9 | 1138.8 | 1150.2 | 1160.5 | 1170.7 | 1182.1 | 1190.1 | 1194.6 | 1194.6 | 1194.6 |
| 47.5°  | 1124.0 | 1127.3 | 1131.9 | 1143.3 | 1157.0 | 1167.2 | 1178.6 | 1186.7 | 1192.3 | 1195.8 | 1192.3 |
| 50°    | 1124.0 | 1124.0 | 1131.9 | 1139.9 | 1152.4 | 1170.7 | 1186.7 | 1194.6 | 1200.3 | 1199.2 | 1200.3 |
| 52.5°  | 1121.6 | 1128.5 | 1133.1 | 1144.5 | 1167.2 | 1185.5 | 1198.0 | 1209.4 | 1217.5 | 1218.5 | 1216.3 |
| 55°    | 1142.1 | 1143.3 | 1153.6 | 1175.3 | 1196.9 | 1217.5 | 1240.2 | 1257.3 | 1271.0 | 1279.0 | 1267.6 |
| 57.5°  | 1158.1 | 1152.4 | 1172.9 | 1191.2 | 1216.3 | 1247.1 | 1281.2 | 1294.9 | 1305.1 | 1302.9 | 1306.3 |
| 60°    | 1136.4 | 1144.5 | 1159.3 | 1178.6 | 1218.5 | 1249.3 | 1267.6 | 1282.4 | 1294.9 | 1298.4 | 1293.8 |
| 61°    | 1126.2 | 1139.9 | 1146.7 | 1172.9 | 1215.1 | 1238.0 | 1257.3 | 1277.9 | 1300.6 | 1308.6 | 1298.4 |
| 62.5°  | 1109.2 | 1130.8 | 1128.5 | 1170.7 | 1196.9 | 1223.1 | 1259.6 | 1283.6 | 1299.5 | 1301.8 | 1299.5 |
| 65°    | 1110.3 | 1106.8 | 1133.1 | 1163.8 | 1190.1 | 1236.8 | 1267.6 | 1282.4 | 1291.5 | 1296.0 | 1293.8 |
| 67.5°  | 1073.8 | 1062.4 | 1094.3 | 1115.9 | 1160.5 | 1196.9 | 1226.6 | 1248.2 | 1261.9 | 1266.4 | 1260.7 |
| 70°    | 989.4  | 997.5  | 1020.2 | 1053.3 | 1089.8 | 1134.2 | 1161.6 | 1190.1 | 1201.5 | 1202.5 | 1202.5 |
| 72.5°  | 908.5  | 913.0  | 935.9  | 966.7  | 1008.8 | 1047.6 | 1074.9 | 1097.7 | 1108.0 | 1109.2 | 1111.4 |
| 75°    | 801.3  | 805.9  | 832.1  | 860.6  | 902.8  | 935.9  | 955.2  | 982.6  | 997.5  | 1009.9 | 999.7  |
| 77.5°  | 677.1  | 685.1  | 705.6  | 736.4  | 775.1  | 793.4  | 827.6  | 859.5  | 869.8  | 873.2  | 869.8  |
| 80°    | 536.9  | 547.2  | 565.4  | 606.4  | 623.5  | 653.2  | 686.3  | 699.9  | 709.0  | 711.3  | 712.4  |
| 82.5°  | 386.4  | 394.4  | 413.8  | 442.2  | 461.7  | 485.6  | 508.3  | 525.5  | 535.7  | 533.5  | 532.4  |
| 85°    | 227.9  | 230.3  | 250.8  | 270.1  | 285.0  | 299.8  | 318.1  | 330.5  | 332.9  | 337.4  | 336.3  |
| 87.5°  | 68.4   | 69.5   | 78.7   | 89.0   | 95.7   | 102.6  | 114.0  | 128.8  | 132.2  | 123.1  | 124.3  |
| 90°    | 36.0   | 36.0   | 36.0   | 36.0   | 35.0   | 34.0   | 31.0   | 29.0   | 27.0   | 26.0   | 26.0   |
| 92.5°  | 40.0   | 39.0   | 39.0   | 38.0   | 36.0   | 34.0   | 32.0   | 29.0   | 27.0   | 27.0   | 27.0   |
| 95°    | 44.0   | 43.0   | 42.0   | 41.0   | 38.0   | 36.0   | 34.0   | 32.0   | 31.0   | 30.0   | 30.0   |
| 97.5°  | 42.0   | 42.0   | 41.0   | 40.0   | 38.0   | 37.0   | 36.0   | 35.0   | 34.0   | 33.0   | 32.0   |
| 100°   | 45.0   | 45.0   | 45.0   | 44.0   | 42.0   | 40.0   | 39.0   | 38.0   | 36.0   | 36.0   | 35.0   |
| 102.5° | 51.0   | 51.0   | 50.0   | 49.0   | 47.0   | 46.0   | 45.0   | 44.0   | 42.0   | 42.0   | 42.0   |
| 105°   | 60.0   | 60.0   | 59.0   | 57.0   | 55.0   | 54.0   | 53.0   | 53.0   | 51.0   | 52.0   | 52.0   |
| 107.5° | 72.0   | 72.0   | 72.0   | 70.0   | 68.0   | 67.0   | 66.0   | 66.0   | 66.0   | 68.0   | 68.0   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 86.0  | 86.0  | 87.0  | 89.0  | 86.0  | 85.0  | 85.0  | 86.0  | 86.0  | 87.0  | 86.0  |
| 112.5° | 101.0 | 102.0 | 104.0 | 108.0 | 106.0 | 107.0 | 107.0 | 110.0 | 108.0 | 107.0 | 103.0 |
| 115°   | 121.0 | 122.0 | 123.0 | 128.0 | 126.0 | 128.0 | 127.0 | 129.0 | 126.0 | 124.0 | 120.0 |
| 117.5° | 140.0 | 141.0 | 141.0 | 144.0 | 141.0 | 141.0 | 140.0 | 141.0 | 138.0 | 136.0 | 135.0 |
| 120°   | 152.0 | 153.0 | 154.0 | 155.0 | 151.0 | 149.0 | 147.0 | 149.0 | 147.0 | 147.0 | 148.0 |
| 122.5° | 161.0 | 162.0 | 163.0 | 164.0 | 159.0 | 154.0 | 153.0 | 155.0 | 156.0 | 158.0 | 158.0 |
| 125°   | 169.0 | 169.0 | 170.0 | 172.0 | 168.0 | 163.0 | 160.0 | 165.0 | 166.0 | 168.0 | 167.0 |
| 127.5° | 177.0 | 177.0 | 179.0 | 181.0 | 177.0 | 171.0 | 170.0 | 176.0 | 177.0 | 178.0 | 175.0 |
| 130°   | 187.0 | 188.0 | 190.0 | 191.0 | 185.0 | 179.0 | 179.0 | 186.0 | 187.0 | 186.0 | 183.0 |
| 132.5° | 198.0 | 199.0 | 200.0 | 201.0 | 193.0 | 186.0 | 187.0 | 193.0 | 195.0 | 195.0 | 191.0 |
| 135°   | 210.0 | 210.0 | 211.0 | 209.0 | 199.0 | 192.0 | 193.0 | 199.0 | 202.0 | 201.0 | 197.0 |
| 137.5° | 221.0 | 219.0 | 217.0 | 213.0 | 203.0 | 197.0 | 198.0 | 205.0 | 207.0 | 208.0 | 203.0 |
| 140°   | 229.0 | 226.0 | 222.0 | 216.0 | 205.0 | 200.0 | 201.0 | 207.0 | 210.0 | 213.0 | 212.0 |
| 142.5° | 235.0 | 231.0 | 225.0 | 218.0 | 206.0 | 201.0 | 202.0 | 208.0 | 212.0 | 218.0 | 218.0 |
| 145°   | 235.0 | 230.0 | 225.0 | 218.0 | 207.0 | 202.0 | 204.0 | 211.0 | 215.0 | 223.0 | 225.0 |
| 147.5° | 230.0 | 227.0 | 223.0 | 219.0 | 210.0 | 207.0 | 209.0 | 216.0 | 220.0 | 229.0 | 233.0 |
| 150°   | 224.0 | 221.0 | 219.0 | 220.0 | 215.0 | 214.0 | 216.0 | 222.0 | 227.0 | 235.0 | 239.0 |
| 152.5° | 216.0 | 214.0 | 216.0 | 221.0 | 220.0 | 220.0 | 224.0 | 230.0 | 234.0 | 241.0 | 241.0 |
| 155°   | 208.0 | 207.0 | 211.0 | 219.0 | 222.0 | 224.0 | 229.0 | 237.0 | 239.0 | 243.0 | 239.0 |
| 157.5° | 203.0 | 203.0 | 207.0 | 216.0 | 220.0 | 224.0 | 229.0 | 234.0 | 232.0 | 235.0 | 230.0 |
| 160°   | 199.0 | 198.0 | 203.0 | 210.0 | 212.0 | 213.0 | 216.0 | 219.0 | 216.0 | 219.0 | 216.0 |
| 162.5° | 185.0 | 184.0 | 188.0 | 193.0 | 194.0 | 193.0 | 196.0 | 198.0 | 195.0 | 198.0 | 196.0 |
| 165°   | 169.0 | 167.0 | 169.0 | 173.0 | 173.0 | 173.0 | 175.0 | 176.0 | 174.0 | 177.0 | 175.0 |
| 167.5° | 154.0 | 152.0 | 153.0 | 156.0 | 156.0 | 155.0 | 157.0 | 159.0 | 157.0 | 159.0 | 158.0 |
| 170°   | 142.0 | 141.0 | 142.0 | 145.0 | 144.0 | 144.0 | 146.0 | 147.0 | 146.0 | 147.0 | 147.0 |
| 172.5° | 137.0 | 135.0 | 136.0 | 139.0 | 139.0 | 138.0 | 140.0 | 141.0 | 140.0 | 141.0 | 140.0 |
| 175°   | 136.0 | 134.0 | 135.0 | 137.0 | 137.0 | 137.0 | 138.0 | 139.0 | 138.0 | 139.0 | 138.0 |
| 177.5° | 137.0 | 136.0 | 136.0 | 139.0 | 138.0 | 138.0 | 139.0 | 140.0 | 139.0 | 139.0 | 138.0 |
| 180°   | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 |
| 2.5°   | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1185.5 | 1186.7 |
| 5°     | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 | 1185.5 |
| 7.5°   | 1185.5 | 1184.4 | 1184.4 | 1184.4 | 1184.4 | 1184.4 | 1184.4 | 1184.4 |
| 10°    | 1183.2 | 1183.2 | 1183.2 | 1183.2 | 1182.1 | 1182.1 | 1182.1 | 1182.1 |
| 12.5°  | 1181.0 | 1181.0 | 1181.0 | 1181.0 | 1179.8 | 1179.8 | 1179.8 | 1179.8 |
| 15°    | 1178.6 | 1178.6 | 1178.6 | 1178.6 | 1177.5 | 1177.5 | 1177.5 | 1177.5 |
| 17.5°  | 1179.8 | 1178.6 | 1177.5 | 1177.5 | 1176.4 | 1175.3 | 1175.3 | 1175.3 |
| 20°    | 1186.7 | 1185.5 | 1183.2 | 1181.0 | 1179.8 | 1178.6 | 1178.6 | 1178.6 |
| 22.5°  | 1177.5 | 1176.4 | 1174.1 | 1172.9 | 1172.9 | 1171.9 | 1170.7 | 1170.7 |
| 25°    | 1167.2 | 1165.0 | 1165.0 | 1163.8 | 1163.8 | 1161.6 | 1161.6 | 1160.5 |
| 27.5°  | 1155.9 | 1154.7 | 1153.6 | 1152.4 | 1152.4 | 1151.4 | 1150.2 | 1149.0 |
| 30°    | 1145.6 | 1143.3 | 1141.1 | 1139.9 | 1138.8 | 1137.6 | 1137.6 | 1137.6 |
| 32.5°  | 1135.4 | 1133.1 | 1131.9 | 1128.5 | 1126.2 | 1125.1 | 1124.0 | 1124.0 |
| 35°    | 1131.9 | 1128.5 | 1126.2 | 1122.8 | 1119.4 | 1117.1 | 1115.9 | 1113.7 |
| 37.5°  | 1145.6 | 1141.1 | 1137.6 | 1131.9 | 1124.0 | 1120.6 | 1117.1 | 1115.9 |
| 40°    | 1175.3 | 1170.7 | 1163.8 | 1154.7 | 1145.6 | 1138.8 | 1133.1 | 1130.8 |
| 42.5°  | 1185.5 | 1179.8 | 1170.7 | 1161.6 | 1150.2 | 1139.9 | 1135.4 | 1133.1 |
| 45°    | 1188.9 | 1183.2 | 1170.7 | 1159.3 | 1149.0 | 1139.9 | 1133.1 | 1130.8 |
| 47.5°  | 1185.5 | 1177.5 | 1166.2 | 1157.0 | 1142.1 | 1130.8 | 1126.2 | 1122.8 |
| 50°    | 1193.4 | 1186.7 | 1171.9 | 1151.4 | 1138.8 | 1131.9 | 1124.0 | 1122.8 |
| 52.5°  | 1209.4 | 1196.9 | 1183.2 | 1168.4 | 1144.5 | 1130.8 | 1126.2 | 1120.6 |
| 55°    | 1257.3 | 1240.2 | 1216.3 | 1192.3 | 1177.5 | 1155.9 | 1142.1 | 1142.1 |
| 57.5°  | 1293.8 | 1280.1 | 1249.3 | 1217.5 | 1190.1 | 1174.1 | 1153.6 | 1154.7 |
| 60°    | 1283.6 | 1265.3 | 1250.5 | 1218.5 | 1179.8 | 1158.1 | 1150.2 | 1135.4 |
| 61°    | 1282.4 | 1257.3 | 1236.8 | 1211.8 | 1178.6 | 1144.5 | 1142.1 | 1122.8 |
| 62.5°  | 1284.6 | 1261.9 | 1223.1 | 1196.9 | 1171.9 | 1127.3 | 1126.2 | 1108.0 |
| 65°    | 1282.4 | 1260.7 | 1241.4 | 1192.3 | 1158.1 | 1139.9 | 1101.1 | 1115.9 |
| 67.5°  | 1247.1 | 1227.7 | 1192.3 | 1165.0 | 1112.5 | 1089.8 | 1068.1 | 1068.1 |
| 70°    | 1191.2 | 1162.7 | 1128.5 | 1094.3 | 1059.0 | 1020.2 | 1000.8 | 989.4  |
| 72.5°  | 1097.7 | 1073.8 | 1046.4 | 1009.9 | 966.7  | 931.3  | 913.0  | 905.1  |
| 75°    | 980.3  | 954.1  | 930.2  | 902.8  | 857.2  | 827.6  | 808.2  | 802.5  |
| 77.5°  | 857.2  | 834.5  | 792.3  | 766.0  | 735.2  | 701.1  | 683.9  | 677.1  |
| 80°    | 699.9  | 687.3  | 657.7  | 615.5  | 600.7  | 558.6  | 547.2  | 536.9  |
| 82.5°  | 525.5  | 511.8  | 484.4  | 454.8  | 436.6  | 412.6  | 392.1  | 389.9  |
| 85°    | 330.5  | 321.4  | 304.3  | 282.7  | 259.9  | 246.2  | 227.9  | 232.5  |
| 87.5°  | 123.1  | 117.4  | 107.1  | 93.5   | 83.2   | 74.0   | 64.9   | 68.4   |
| 90°    | 28.0   | 30.0   | 32.0   | 33.0   | 34.0   | 34.0   | 34.0   | 34.0   |
| 92.5°  | 28.0   | 30.0   | 32.0   | 33.0   | 35.0   | 36.0   | 36.0   | 36.0   |
| 95°    | 30.0   | 32.0   | 34.0   | 35.0   | 37.0   | 38.0   | 39.0   | 38.0   |
| 97.5°  | 33.0   | 34.0   | 34.0   | 35.0   | 36.0   | 36.0   | 36.0   | 36.0   |
| 100°   | 36.0   | 37.0   | 38.0   | 38.0   | 38.0   | 38.0   | 37.0   | 37.0   |
| 102.5° | 43.0   | 44.0   | 44.0   | 42.0   | 42.0   | 41.0   | 41.0   | 41.0   |
| 105°   | 54.0   | 54.0   | 53.0   | 51.0   | 49.0   | 48.0   | 48.0   | 49.0   |
| 107.5° | 68.0   | 68.0   | 66.0   | 63.0   | 60.0   | 59.0   | 59.0   | 60.0   |

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CATALOG NUMBER: TT-C3-LED-E1-MQ-MS/DIM-UPL

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 84.0  | 83.0  | 84.0  | 81.0  | 78.0  | 76.0  | 74.0  | 75.0  |
| 112.5° | 102.0 | 102.0 | 105.0 | 103.0 | 100.0 | 98.0  | 95.0  | 94.0  |
| 115°   | 121.0 | 123.0 | 125.0 | 124.0 | 123.0 | 121.0 | 116.0 | 113.0 |
| 117.5° | 138.0 | 140.0 | 141.0 | 139.0 | 139.0 | 139.0 | 133.0 | 129.0 |
| 120°   | 150.0 | 151.0 | 153.0 | 148.0 | 148.0 | 148.0 | 145.0 | 142.0 |
| 122.5° | 159.0 | 160.0 | 162.0 | 156.0 | 155.0 | 156.0 | 153.0 | 150.0 |
| 125°   | 167.0 | 167.0 | 168.0 | 164.0 | 163.0 | 164.0 | 160.0 | 158.0 |
| 127.5° | 176.0 | 175.0 | 175.0 | 173.0 | 173.0 | 173.0 | 166.0 | 163.0 |
| 130°   | 183.0 | 182.0 | 183.0 | 181.0 | 184.0 | 181.0 | 171.0 | 169.0 |
| 132.5° | 190.0 | 189.0 | 192.0 | 189.0 | 192.0 | 190.0 | 179.0 | 176.0 |
| 135°   | 196.0 | 197.0 | 201.0 | 199.0 | 199.0 | 195.0 | 185.0 | 184.0 |
| 137.5° | 203.0 | 205.0 | 210.0 | 207.0 | 204.0 | 198.0 | 191.0 | 190.0 |
| 140°   | 212.0 | 214.0 | 217.0 | 214.0 | 209.0 | 202.0 | 195.0 | 195.0 |
| 142.5° | 220.0 | 222.0 | 223.0 | 217.0 | 211.0 | 204.0 | 198.0 | 198.0 |
| 145°   | 230.0 | 230.0 | 227.0 | 217.0 | 211.0 | 205.0 | 201.0 | 202.0 |
| 147.5° | 239.0 | 236.0 | 229.0 | 218.0 | 212.0 | 207.0 | 204.0 | 206.0 |
| 150°   | 242.0 | 240.0 | 232.0 | 220.0 | 214.0 | 211.0 | 210.0 | 211.0 |
| 152.5° | 242.0 | 241.0 | 235.0 | 223.0 | 219.0 | 217.0 | 215.0 | 216.0 |
| 155°   | 238.0 | 237.0 | 234.0 | 227.0 | 224.0 | 223.0 | 220.0 | 219.0 |
| 157.5° | 228.0 | 229.0 | 229.0 | 226.0 | 226.0 | 225.0 | 222.0 | 219.0 |
| 160°   | 215.0 | 217.0 | 219.0 | 219.0 | 221.0 | 222.0 | 218.0 | 215.0 |
| 162.5° | 196.0 | 199.0 | 200.0 | 201.0 | 204.0 | 208.0 | 207.0 | 207.0 |
| 165°   | 176.0 | 179.0 | 181.0 | 181.0 | 185.0 | 189.0 | 190.0 | 192.0 |
| 167.5° | 160.0 | 163.0 | 165.0 | 164.0 | 168.0 | 171.0 | 172.0 | 174.0 |
| 170°   | 148.0 | 150.0 | 152.0 | 152.0 | 155.0 | 158.0 | 159.0 | 160.0 |
| 172.5° | 141.0 | 144.0 | 145.0 | 144.0 | 146.0 | 149.0 | 149.0 | 151.0 |
| 175°   | 138.0 | 140.0 | 141.0 | 140.0 | 141.0 | 143.0 | 143.0 | 144.0 |
| 177.5° | 138.0 | 140.0 | 140.0 | 138.0 | 140.0 | 141.0 | 141.0 | 141.0 |
| 180°   | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 |

(END OF REPORT)