

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: P146232

Luminaire Tested: **VPL-E04-LED-E1-CPR-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146232
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-E04-LED-E1-CPR-7060
Description: VALET LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER RIGHT
Light Source: (84) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11055 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

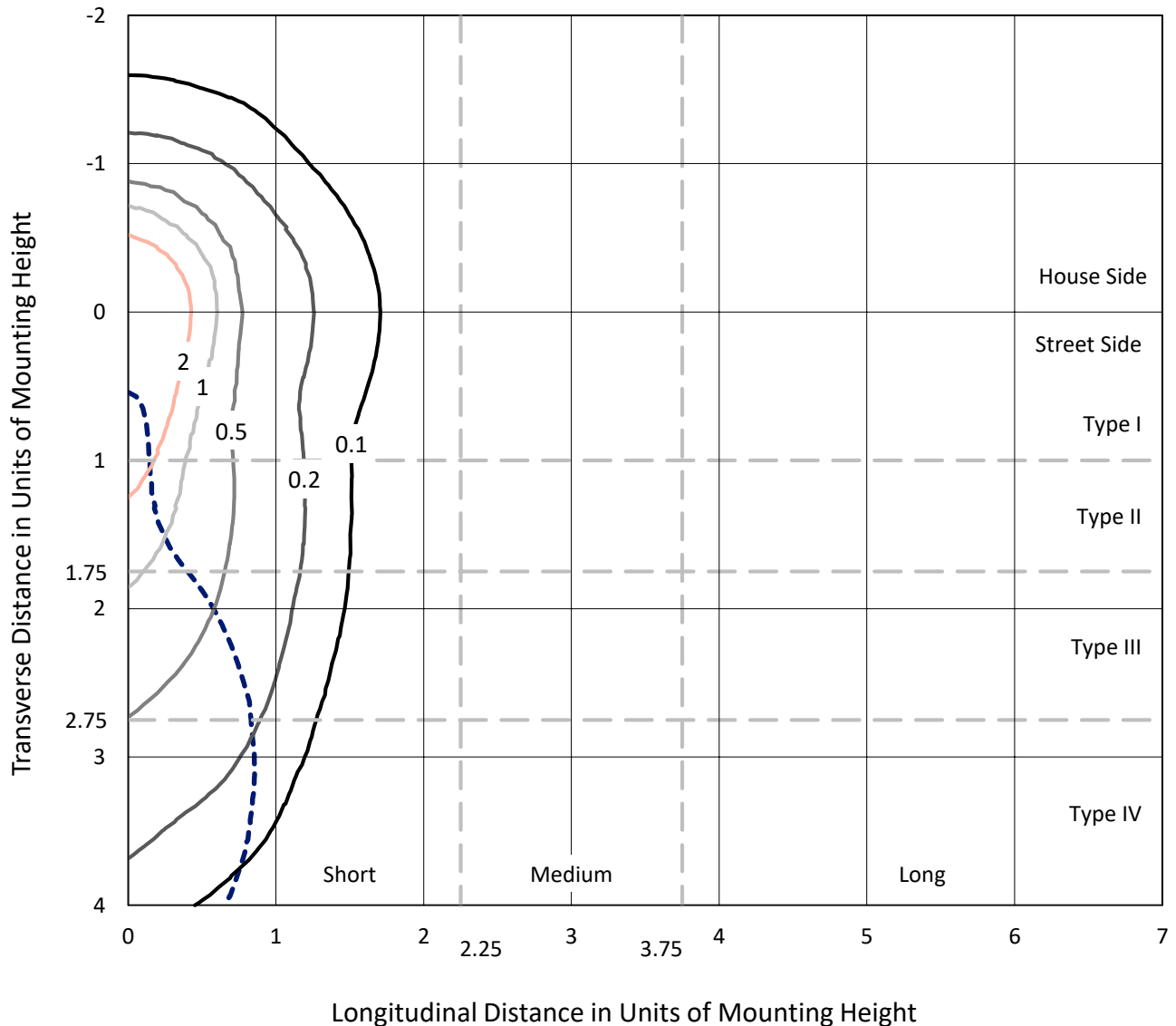
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146232
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Iso-Footcandle Lines of Horizontal Illumination

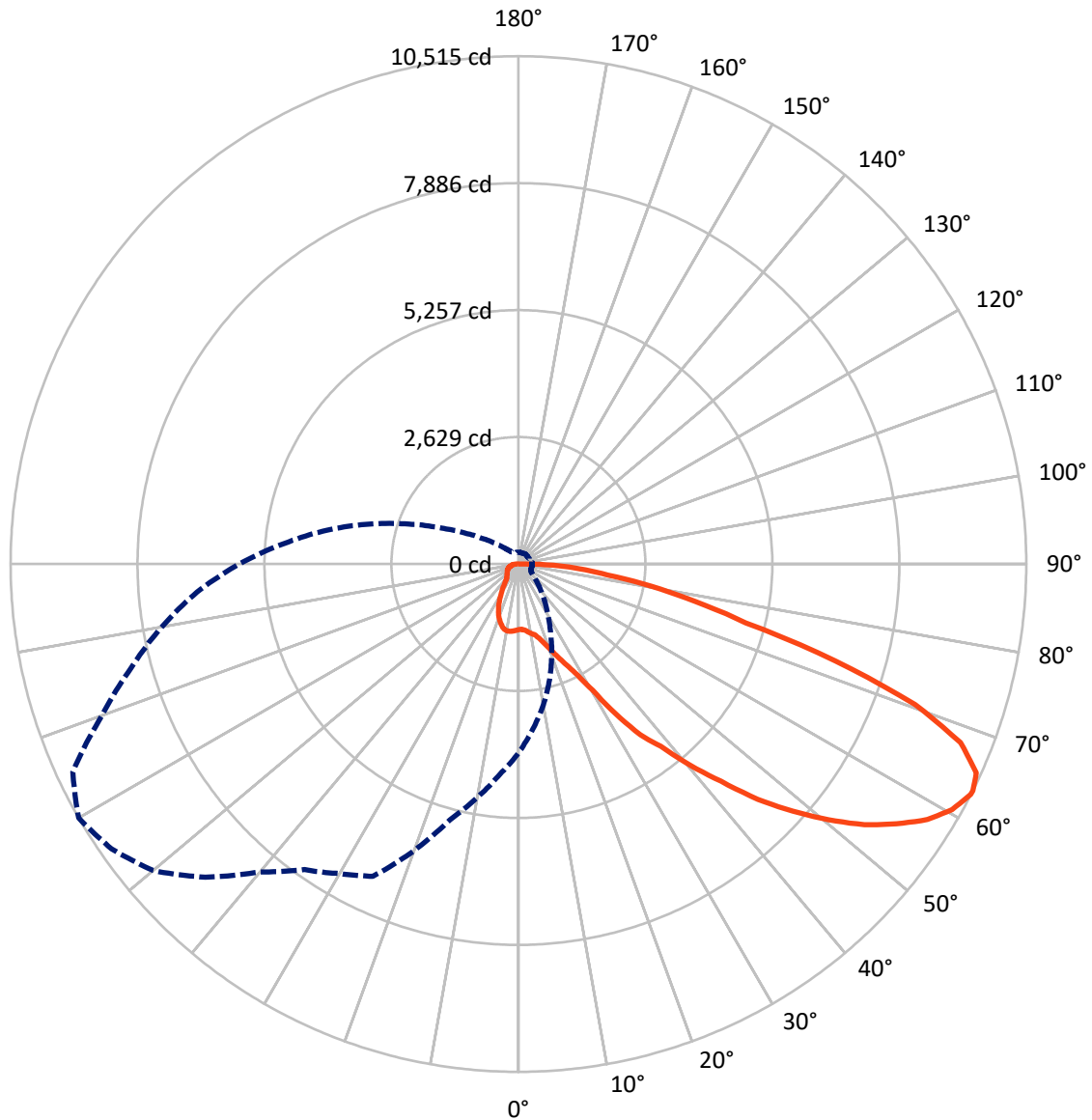
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2314.1 | 0.0 | 2314.1 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 8740.9 | 0.0 | 8740.9 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 11055.0 | 0.0 | 11055.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 133.4 | 1.2 |
| 10°-20° | 416.2 | 3.8 |
| 20°-30° | 736.0 | 6.7 |
| 30°-40° | 1161.9 | 10.5 |
| 40°-50° | 1708.6 | 15.5 |
| 50°-60° | 2250.7 | 20.4 |
| 60°-70° | 2508.6 | 22.7 |
| 70°-80° | 1648.2 | 14.9 |
| 80°-90° | 491.5 | 4.4 |
| 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° | 11055.0 | 100.0 |
| 0°-180° | 11055.0 | 100.0 |

Coefficient of Utilization



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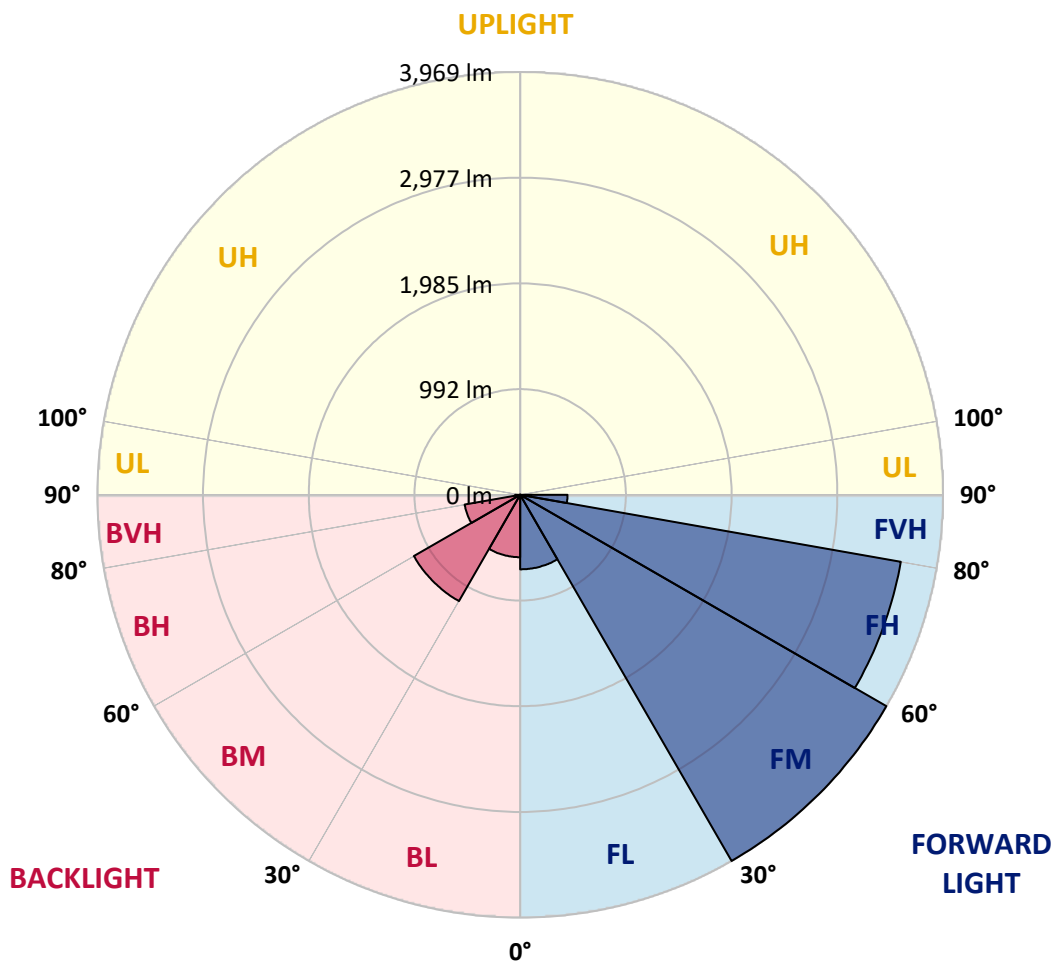
CATALOG NUMBER: VPL-E04-LED-E1-CPR-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 699.7 | 6.3 | | | |
| FM | (30°-60°) | 3969.0 | 35.9 | | | |
| FH | (60°-80°) | 3627.9 | 32.8 | | | G2/5000 |
| FVH | (80°-90°) | 444.2 | 4.0 | | | G3/500 |
| BL | (0°-30°) | 585.8 | 5.3 | B2/1000 | | |
| BM | (30°-60°) | 1152.1 | 10.4 | B2/2500 | | |
| BH | (60°-80°) | 528.9 | 4.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 47.3 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P146232

CATALOG NUMBER: VPL-E04-LED-E1-CPR-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 |
| 2.5° | 1356.1 | 1358.6 | 1358.6 | 1356.1 | 1358.6 | 1357.7 | 1357.7 | 1360.2 | 1361.0 | 1365.1 | 1362.7 |
| 5° | 1349.5 | 1350.4 | 1351.2 | 1349.5 | 1350.4 | 1350.4 | 1352.0 | 1354.5 | 1355.3 | 1360.2 | 1357.7 |
| 7.5° | 1342.1 | 1343.8 | 1340.5 | 1341.3 | 1343.8 | 1347.1 | 1347.1 | 1350.4 | 1356.1 | 1358.6 | 1357.7 |
| 10° | 1346.3 | 1344.6 | 1342.1 | 1341.3 | 1343.0 | 1343.8 | 1345.4 | 1351.2 | 1356.1 | 1358.6 | 1362.7 |
| 12.5° | 1378.3 | 1373.3 | 1370.9 | 1370.1 | 1370.9 | 1369.2 | 1375.0 | 1376.6 | 1378.3 | 1381.5 | 1379.9 |
| 15° | 1439.0 | 1432.4 | 1428.3 | 1424.2 | 1433.3 | 1429.2 | 1429.2 | 1424.2 | 1416.0 | 1403.7 | 1388.1 |
| 17.5° | 1523.6 | 1516.2 | 1512.9 | 1511.2 | 1512.1 | 1504.7 | 1489.9 | 1466.1 | 1437.4 | 1404.5 | 1374.2 |
| 20° | 1645.1 | 1656.5 | 1651.6 | 1629.5 | 1621.2 | 1588.4 | 1541.6 | 1492.4 | 1442.3 | 1389.8 | 1339.7 |
| 22.5° | 1855.2 | 1848.6 | 1826.5 | 1771.5 | 1722.2 | 1648.3 | 1564.6 | 1485.0 | 1411.1 | 1334.8 | 1269.1 |
| 25° | 2099.0 | 2044.0 | 1981.6 | 1873.3 | 1760.0 | 1638.5 | 1517.8 | 1423.4 | 1324.9 | 1241.2 | 1162.4 |
| 27.5° | 2397.8 | 2278.8 | 2119.5 | 1943.0 | 1773.9 | 1612.2 | 1469.4 | 1344.6 | 1232.1 | 1142.7 | 1054.8 |
| 30° | 2691.7 | 2493.0 | 2271.4 | 2037.4 | 1809.2 | 1590.9 | 1402.1 | 1257.6 | 1127.9 | 1013.0 | 924.3 |
| 32.5° | 2895.3 | 2654.7 | 2378.9 | 2090.0 | 1812.5 | 1556.4 | 1328.2 | 1155.8 | 1009.7 | 893.9 | 787.2 |
| 35° | 3062.7 | 2762.3 | 2416.7 | 2081.8 | 1760.0 | 1476.0 | 1222.3 | 1031.0 | 875.9 | 756.0 | 662.5 |
| 37.5° | 3177.6 | 2817.3 | 2414.2 | 2034.2 | 1666.4 | 1347.9 | 1100.8 | 906.3 | 761.8 | 650.1 | 563.9 |
| 40° | 3258.1 | 2834.5 | 2382.2 | 1952.9 | 1558.9 | 1223.9 | 971.1 | 793.8 | 667.4 | 580.4 | 518.0 |
| 42.5° | 3296.7 | 2823.0 | 2334.6 | 1875.7 | 1452.1 | 1123.8 | 873.4 | 718.3 | 615.7 | 550.0 | 504.0 |
| 45° | 3313.1 | 2795.1 | 2281.2 | 1800.2 | 1365.1 | 1037.6 | 823.3 | 695.3 | 614.8 | 558.2 | 508.1 |
| 47.5° | 3309.0 | 2764.7 | 2233.6 | 1737.8 | 1313.4 | 1014.6 | 833.2 | 726.5 | 645.2 | 574.6 | 510.6 |
| 50° | 3297.5 | 2736.8 | 2203.3 | 1714.8 | 1312.6 | 1049.1 | 888.2 | 779.0 | 680.5 | 589.4 | 508.1 |
| 52.5° | 3296.7 | 2734.4 | 2219.7 | 1741.9 | 1360.2 | 1127.1 | 971.1 | 839.8 | 715.0 | 605.8 | 508.9 |
| 55° | 3316.4 | 2778.7 | 2289.4 | 1815.0 | 1475.1 | 1236.3 | 1064.7 | 904.6 | 753.6 | 617.3 | 506.5 |
| 57.5° | 3396.0 | 2889.5 | 2421.6 | 1978.3 | 1622.9 | 1369.2 | 1155.0 | 953.0 | 768.3 | 614.0 | 495.0 |
| 60° | 3570.8 | 3084.1 | 2625.2 | 2209.0 | 1812.5 | 1490.7 | 1208.3 | 969.5 | 761.8 | 594.3 | 470.4 |
| 62.5° | 3843.4 | 3365.6 | 2904.3 | 2435.6 | 1980.8 | 1563.8 | 1220.7 | 956.3 | 735.5 | 561.5 | 440.0 |
| 63° | 3913.2 | 3430.5 | 2960.9 | 2482.4 | 2009.5 | 1571.2 | 1219.8 | 951.4 | 728.1 | 553.3 | 432.6 |
| 65° | 4204.6 | 3708.8 | 3188.3 | 2636.7 | 2086.7 | 1585.9 | 1201.0 | 920.2 | 695.3 | 514.7 | 398.9 |
| 67.5° | 4642.9 | 4015.8 | 3414.1 | 2780.3 | 2129.4 | 1559.7 | 1141.9 | 843.0 | 610.7 | 447.4 | 348.9 |
| 70° | 4935.2 | 4219.3 | 3548.7 | 2827.1 | 2079.3 | 1439.8 | 1006.4 | 706.8 | 499.1 | 368.6 | 298.0 |
| 72.5° | 4942.5 | 4037.1 | 3366.4 | 2584.1 | 1795.3 | 1187.8 | 788.0 | 534.4 | 388.3 | 299.6 | 256.9 |
| 75° | 4414.7 | 3411.6 | 2751.6 | 2122.0 | 1381.5 | 839.8 | 554.1 | 389.9 | 298.0 | 247.1 | 222.5 |
| 77.5° | 3281.9 | 2488.9 | 1985.7 | 1427.5 | 897.2 | 544.2 | 385.8 | 289.0 | 236.4 | 204.4 | 186.3 |
| 80° | 2036.6 | 1555.6 | 1205.1 | 853.7 | 537.7 | 362.0 | 282.4 | 229.8 | 198.7 | 170.7 | 156.0 |
| 82.5° | 1228.0 | 871.0 | 680.5 | 515.5 | 344.0 | 261.0 | 217.5 | 193.7 | 168.3 | 143.7 | 132.2 |
| 85° | 899.7 | 623.1 | 456.4 | 318.5 | 212.6 | 172.4 | 152.7 | 147.8 | 130.5 | 110.8 | 104.3 |
| 87.5° | 283.2 | 297.2 | 308.7 | 188.0 | 102.6 | 78.0 | 66.5 | 78.0 | 74.7 | 52.5 | 57.5 |
| 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: P146232

CATALOG NUMBER: VPL-E04-LED-E1-CPR-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 |
| 2.5° | 1366.8 | 1370.1 | 1367.6 | 1367.6 | 1366.0 | 1365.1 | 1370.9 | 1369.2 | 1370.9 | 1370.1 | 1371.7 |
| 5° | 1361.8 | 1364.3 | 1362.7 | 1364.3 | 1362.7 | 1362.7 | 1370.1 | 1370.1 | 1373.3 | 1375.0 | 1379.1 |
| 7.5° | 1363.5 | 1364.3 | 1363.5 | 1366.0 | 1364.3 | 1362.7 | 1366.8 | 1369.2 | 1375.0 | 1379.9 | 1384.0 |
| 10° | 1369.2 | 1371.7 | 1370.9 | 1370.9 | 1366.0 | 1362.7 | 1365.1 | 1366.8 | 1372.5 | 1375.0 | 1379.9 |
| 12.5° | 1383.2 | 1379.9 | 1373.3 | 1369.2 | 1357.7 | 1351.2 | 1347.9 | 1346.3 | 1350.4 | 1353.6 | 1356.1 |
| 15° | 1379.9 | 1361.8 | 1347.1 | 1334.8 | 1317.5 | 1306.8 | 1298.6 | 1297.8 | 1298.6 | 1299.5 | 1301.9 |
| 17.5° | 1346.3 | 1321.6 | 1292.1 | 1276.5 | 1256.8 | 1245.3 | 1239.5 | 1235.4 | 1234.6 | 1236.3 | 1240.4 |
| 20° | 1297.8 | 1261.7 | 1228.9 | 1201.8 | 1180.4 | 1162.4 | 1166.5 | 1157.4 | 1161.6 | 1164.0 | 1171.4 |
| 22.5° | 1223.9 | 1173.9 | 1136.1 | 1103.3 | 1077.8 | 1058.9 | 1058.9 | 1050.7 | 1052.4 | 1059.8 | 1069.6 |
| 25° | 1104.1 | 1057.3 | 1003.1 | 980.1 | 951.4 | 938.3 | 935.8 | 934.2 | 940.7 | 949.8 | 955.5 |
| 27.5° | 995.7 | 931.7 | 878.3 | 848.0 | 817.6 | 820.9 | 804.5 | 814.3 | 821.7 | 829.1 | 835.7 |
| 30° | 849.6 | 797.1 | 748.6 | 718.3 | 682.2 | 683.0 | 685.4 | 687.1 | 693.6 | 703.5 | 716.6 |
| 32.5° | 709.2 | 652.6 | 607.5 | 574.6 | 553.3 | 546.7 | 537.7 | 552.5 | 560.7 | 570.5 | 583.6 |
| 35° | 593.5 | 534.4 | 496.6 | 467.9 | 455.6 | 446.6 | 444.1 | 442.5 | 449.8 | 454.8 | 465.4 |
| 37.5° | 510.6 | 470.4 | 442.5 | 421.9 | 410.4 | 400.6 | 398.1 | 396.5 | 395.7 | 394.0 | 400.6 |
| 40° | 476.9 | 444.9 | 421.1 | 402.2 | 391.6 | 385.8 | 383.4 | 380.1 | 376.8 | 372.7 | 371.9 |
| 42.5° | 467.1 | 432.6 | 404.7 | 385.8 | 377.6 | 376.8 | 376.8 | 375.1 | 371.9 | 366.1 | 362.0 |
| 45° | 463.0 | 421.1 | 389.1 | 374.3 | 368.6 | 369.4 | 369.4 | 369.4 | 366.9 | 361.2 | 354.6 |
| 47.5° | 455.6 | 407.2 | 374.3 | 362.0 | 359.5 | 361.2 | 362.8 | 362.8 | 361.2 | 356.3 | 348.9 |
| 50° | 441.6 | 385.8 | 351.3 | 339.8 | 339.0 | 339.8 | 339.8 | 341.5 | 339.8 | 335.7 | 329.2 |
| 52.5° | 431.0 | 369.4 | 334.1 | 325.1 | 325.1 | 324.2 | 323.4 | 323.4 | 322.6 | 319.3 | 314.4 |
| 55° | 421.1 | 358.7 | 326.7 | 319.3 | 321.0 | 321.0 | 319.3 | 318.5 | 315.2 | 311.1 | 306.2 |
| 57.5° | 407.2 | 347.2 | 319.3 | 314.4 | 316.0 | 315.2 | 314.4 | 313.6 | 310.3 | 305.4 | 298.8 |
| 60° | 382.5 | 326.7 | 304.5 | 301.3 | 303.7 | 304.5 | 307.8 | 308.7 | 307.0 | 301.3 | 292.2 |
| 62.5° | 355.4 | 301.3 | 284.8 | 282.4 | 284.8 | 287.3 | 289.8 | 288.1 | 288.1 | 282.4 | 274.2 |
| 63° | 346.4 | 297.2 | 279.1 | 279.1 | 281.6 | 284.0 | 285.7 | 284.0 | 284.8 | 278.3 | 270.1 |
| 65° | 325.9 | 282.4 | 268.4 | 269.3 | 271.7 | 273.4 | 274.2 | 274.2 | 273.4 | 268.4 | 261.0 |
| 67.5° | 291.4 | 261.0 | 252.8 | 256.9 | 260.2 | 261.0 | 261.0 | 262.7 | 261.0 | 257.8 | 251.2 |
| 70° | 260.2 | 240.5 | 234.8 | 239.7 | 241.3 | 242.2 | 242.2 | 242.2 | 240.5 | 237.2 | 231.5 |
| 72.5° | 236.4 | 226.6 | 225.7 | 224.9 | 225.7 | 223.3 | 223.3 | 221.6 | 217.5 | 215.1 | 210.1 |
| 75° | 210.1 | 205.2 | 206.0 | 205.2 | 203.6 | 202.8 | 198.7 | 197.0 | 192.1 | 188.8 | 182.2 |
| 77.5° | 180.6 | 181.4 | 180.6 | 181.4 | 183.1 | 183.9 | 178.1 | 174.0 | 169.9 | 166.6 | 163.4 |
| 80° | 150.2 | 151.9 | 150.2 | 151.9 | 152.7 | 152.7 | 146.9 | 140.4 | 137.1 | 139.6 | 140.4 |
| 82.5° | 133.8 | 133.8 | 127.2 | 128.9 | 127.2 | 124.8 | 120.7 | 118.2 | 115.7 | 114.1 | 118.2 |
| 85° | 105.9 | 106.7 | 108.4 | 106.7 | 103.4 | 101.0 | 96.9 | 93.6 | 91.1 | 93.6 | 99.3 |
| 87.5° | 63.2 | 68.1 | 65.7 | 65.7 | 64.8 | 64.8 | 61.6 | 59.9 | 57.5 | 67.3 | 72.2 |
| 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: P146232

CATALOG NUMBER: VPL-E04-LED-E1-CPR-7060

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 |
| 2.5° | 1370.9 | 1373.3 | 1374.2 | 1373.3 | 1374.2 | 1375.8 | 1369.2 | 1375.8 | 1376.6 | 1371.7 | 1373.3 |
| 5° | 1382.4 | 1386.5 | 1392.2 | 1392.2 | 1396.3 | 1398.8 | 1395.5 | 1404.5 | 1406.2 | 1405.4 | 1409.5 |
| 7.5° | 1390.6 | 1396.3 | 1403.7 | 1407.8 | 1415.2 | 1418.5 | 1421.0 | 1429.2 | 1430.8 | 1434.1 | 1437.4 |
| 10° | 1389.8 | 1398.0 | 1404.5 | 1416.0 | 1425.1 | 1431.6 | 1436.5 | 1445.6 | 1448.9 | 1453.8 | 1456.2 |
| 12.5° | 1366.0 | 1375.0 | 1387.3 | 1403.7 | 1420.1 | 1430.8 | 1443.9 | 1457.1 | 1462.0 | 1468.6 | 1472.7 |
| 15° | 1312.6 | 1320.0 | 1337.2 | 1358.6 | 1380.7 | 1407.8 | 1426.7 | 1447.2 | 1456.2 | 1462.8 | 1468.6 |
| 17.5° | 1242.8 | 1249.4 | 1265.0 | 1283.9 | 1313.4 | 1339.7 | 1368.4 | 1399.6 | 1415.2 | 1422.6 | 1425.1 |
| 20° | 1178.0 | 1187.8 | 1191.9 | 1214.1 | 1223.9 | 1250.2 | 1274.8 | 1309.3 | 1329.0 | 1342.1 | 1350.4 |
| 22.5° | 1076.2 | 1081.1 | 1102.4 | 1111.5 | 1118.9 | 1135.3 | 1165.7 | 1196.0 | 1222.3 | 1243.6 | 1250.2 |
| 25° | 963.7 | 976.9 | 988.3 | 995.7 | 1013.0 | 1013.8 | 1038.4 | 1059.8 | 1092.6 | 1113.1 | 1129.5 |
| 27.5° | 839.8 | 859.5 | 866.0 | 871.0 | 884.1 | 899.7 | 908.7 | 930.1 | 948.9 | 972.7 | 1002.3 |
| 30° | 715.0 | 733.9 | 747.0 | 754.4 | 766.7 | 781.5 | 788.0 | 802.0 | 826.6 | 852.9 | 875.9 |
| 32.5° | 598.4 | 618.1 | 624.7 | 648.5 | 651.8 | 665.7 | 670.7 | 692.8 | 706.8 | 728.9 | 756.0 |
| 35° | 484.3 | 504.8 | 524.5 | 537.7 | 552.5 | 551.6 | 564.8 | 585.3 | 597.6 | 620.6 | 638.6 |
| 37.5° | 406.3 | 418.7 | 432.6 | 447.4 | 463.8 | 476.1 | 488.4 | 497.5 | 507.3 | 522.9 | 539.3 |
| 40° | 371.9 | 375.1 | 380.9 | 389.9 | 401.4 | 410.4 | 419.5 | 426.9 | 434.2 | 446.6 | 457.2 |
| 42.5° | 357.9 | 355.4 | 355.4 | 353.8 | 357.9 | 362.8 | 370.2 | 372.7 | 384.2 | 391.6 | 395.7 |
| 45° | 348.1 | 342.3 | 338.2 | 333.3 | 331.6 | 333.3 | 337.4 | 343.1 | 350.5 | 353.0 | 353.0 |
| 47.5° | 342.3 | 333.3 | 326.7 | 319.3 | 315.2 | 315.2 | 317.7 | 321.8 | 325.9 | 326.7 | 325.9 |
| 50° | 322.6 | 313.6 | 305.4 | 298.8 | 295.5 | 295.5 | 296.3 | 302.1 | 302.9 | 301.3 | 302.1 |
| 52.5° | 307.8 | 298.8 | 290.6 | 284.8 | 280.7 | 281.6 | 284.0 | 286.5 | 289.0 | 287.3 | 285.7 |
| 55° | 298.8 | 288.1 | 280.7 | 274.2 | 269.3 | 270.9 | 273.4 | 276.6 | 280.7 | 278.3 | 275.8 |
| 57.5° | 290.6 | 281.6 | 272.5 | 266.0 | 260.2 | 261.9 | 264.3 | 269.3 | 274.2 | 269.3 | 266.0 |
| 60° | 283.2 | 274.2 | 265.1 | 258.6 | 252.0 | 253.7 | 256.9 | 261.9 | 266.0 | 259.4 | 255.3 |
| 62.5° | 265.1 | 256.9 | 250.4 | 247.1 | 243.0 | 245.4 | 247.9 | 253.7 | 252.0 | 245.4 | 240.5 |
| 63° | 261.9 | 253.7 | 247.9 | 244.6 | 241.3 | 244.6 | 245.4 | 251.2 | 248.7 | 242.2 | 238.1 |
| 65° | 252.0 | 245.4 | 239.7 | 236.4 | 233.1 | 234.8 | 234.8 | 237.2 | 234.0 | 229.0 | 225.7 |
| 67.5° | 243.0 | 235.6 | 229.8 | 223.3 | 220.0 | 218.4 | 217.5 | 216.7 | 214.3 | 211.8 | 211.0 |
| 70° | 223.3 | 218.4 | 213.4 | 207.7 | 202.8 | 199.5 | 197.8 | 196.2 | 194.5 | 193.7 | 192.9 |
| 72.5° | 201.9 | 197.8 | 192.9 | 189.6 | 185.5 | 183.1 | 179.0 | 178.1 | 176.5 | 174.8 | 174.0 |
| 75° | 179.0 | 174.0 | 172.4 | 169.1 | 166.6 | 165.0 | 161.7 | 160.9 | 159.3 | 156.8 | 156.0 |
| 77.5° | 158.4 | 156.8 | 154.3 | 153.5 | 149.4 | 146.9 | 145.3 | 144.5 | 142.8 | 141.2 | 139.6 |
| 80° | 141.2 | 140.4 | 138.7 | 137.9 | 135.4 | 132.2 | 130.5 | 131.3 | 128.9 | 128.1 | 125.6 |
| 82.5° | 127.2 | 128.1 | 128.1 | 125.6 | 123.1 | 119.0 | 117.4 | 119.8 | 118.2 | 114.9 | 111.6 |
| 85° | 108.4 | 107.5 | 108.4 | 107.5 | 102.6 | 98.5 | 96.9 | 98.5 | 97.7 | 92.8 | 91.9 |
| 87.5° | 77.2 | 76.3 | 74.7 | 79.6 | 73.1 | 59.1 | 60.7 | 69.0 | 66.5 | 64.0 | 62.4 |
| 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: P146232

CATALOG NUMBER: VPL-E04-LED-E1-CPR-7060

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 |
| 2.5° | 1376.6 | 1374.2 | 1375.8 | 1376.6 | 1374.2 | 1379.9 | 1374.2 | 1375.0 | 1376.6 | 1371.7 | 1370.9 |
| 5° | 1412.7 | 1412.7 | 1419.3 | 1420.1 | 1419.3 | 1426.7 | 1425.9 | 1426.7 | 1425.1 | 1424.2 | 1421.0 |
| 7.5° | 1442.3 | 1445.6 | 1450.5 | 1457.9 | 1460.4 | 1466.1 | 1467.7 | 1468.6 | 1471.8 | 1475.1 | 1473.5 |
| 10° | 1463.6 | 1472.7 | 1476.8 | 1484.2 | 1491.5 | 1495.7 | 1499.8 | 1506.3 | 1508.8 | 1511.2 | 1508.0 |
| 12.5° | 1478.4 | 1489.1 | 1495.7 | 1504.7 | 1513.7 | 1520.3 | 1527.7 | 1535.9 | 1544.1 | 1546.5 | 1542.4 |
| 15° | 1471.0 | 1483.3 | 1493.2 | 1503.0 | 1517.0 | 1529.3 | 1543.3 | 1558.0 | 1568.7 | 1572.8 | 1567.9 |
| 17.5° | 1425.1 | 1437.4 | 1452.1 | 1466.9 | 1481.7 | 1504.7 | 1524.4 | 1549.0 | 1566.2 | 1578.6 | 1580.2 |
| 20° | 1361.8 | 1369.2 | 1390.6 | 1405.4 | 1429.2 | 1456.2 | 1485.8 | 1514.5 | 1534.2 | 1556.4 | 1569.5 |
| 22.5° | 1268.3 | 1283.0 | 1306.8 | 1332.3 | 1356.1 | 1391.4 | 1422.6 | 1460.4 | 1494.0 | 1524.4 | 1553.1 |
| 25° | 1154.2 | 1174.7 | 1202.6 | 1237.9 | 1269.1 | 1306.8 | 1352.0 | 1393.9 | 1450.5 | 1498.1 | 1559.7 |
| 27.5° | 1031.0 | 1068.8 | 1107.4 | 1144.3 | 1178.8 | 1221.5 | 1268.3 | 1315.1 | 1379.9 | 1456.2 | 1536.7 |
| 30° | 914.5 | 945.7 | 994.1 | 1036.8 | 1077.0 | 1129.5 | 1178.0 | 1229.7 | 1291.3 | 1381.5 | 1472.7 |
| 32.5° | 793.0 | 818.4 | 856.2 | 908.7 | 955.5 | 1017.1 | 1059.8 | 1121.3 | 1192.7 | 1288.0 | 1391.4 |
| 35° | 667.4 | 702.7 | 733.0 | 769.2 | 804.5 | 866.0 | 930.1 | 998.2 | 1080.3 | 1182.1 | 1295.4 |
| 37.5° | 556.6 | 578.7 | 593.5 | 630.4 | 661.6 | 714.2 | 788.9 | 871.0 | 961.3 | 1064.7 | 1186.2 |
| 40° | 464.6 | 478.6 | 495.0 | 519.6 | 545.9 | 593.5 | 662.5 | 754.4 | 848.8 | 952.2 | 1073.7 |
| 42.5° | 401.4 | 410.4 | 412.1 | 431.0 | 455.6 | 502.4 | 557.4 | 641.9 | 746.2 | 854.5 | 976.0 |
| 45° | 357.9 | 357.9 | 357.1 | 365.3 | 385.0 | 425.2 | 475.3 | 550.8 | 650.1 | 763.4 | 889.8 |
| 47.5° | 327.5 | 330.0 | 329.2 | 332.5 | 345.6 | 375.1 | 420.3 | 484.3 | 574.6 | 685.4 | 812.7 |
| 50° | 304.5 | 307.8 | 308.7 | 309.5 | 314.4 | 339.0 | 377.6 | 429.3 | 509.8 | 615.7 | 743.7 |
| 52.5° | 286.5 | 287.3 | 287.3 | 286.5 | 288.1 | 302.1 | 334.1 | 381.7 | 456.4 | 551.6 | 674.8 |
| 55° | 276.6 | 277.5 | 277.5 | 277.5 | 277.5 | 286.5 | 309.5 | 348.1 | 408.0 | 497.5 | 609.1 |
| 57.5° | 265.1 | 265.1 | 266.8 | 266.8 | 266.8 | 270.1 | 286.5 | 318.5 | 364.5 | 435.9 | 535.2 |
| 60° | 255.3 | 257.8 | 261.0 | 261.9 | 261.0 | 261.0 | 269.3 | 290.6 | 321.0 | 372.7 | 456.4 |
| 62.5° | 240.5 | 243.8 | 247.9 | 249.5 | 250.4 | 248.7 | 252.8 | 261.9 | 279.9 | 307.0 | 363.7 |
| 63° | 238.1 | 241.3 | 244.6 | 246.3 | 247.1 | 245.4 | 248.7 | 256.1 | 270.9 | 293.1 | 344.0 |
| 65° | 227.4 | 231.5 | 232.3 | 233.1 | 232.3 | 231.5 | 230.7 | 230.7 | 234.8 | 243.0 | 270.1 |
| 67.5° | 212.6 | 215.1 | 215.1 | 216.7 | 212.6 | 211.0 | 209.3 | 207.7 | 205.2 | 206.0 | 215.9 |
| 70° | 195.4 | 197.0 | 196.2 | 195.4 | 193.7 | 191.3 | 189.6 | 187.2 | 182.2 | 180.6 | 185.5 |
| 72.5° | 175.7 | 177.3 | 177.3 | 177.3 | 174.0 | 172.4 | 170.7 | 169.1 | 167.5 | 169.1 | 170.7 |
| 75° | 157.6 | 157.6 | 159.3 | 158.4 | 156.0 | 154.3 | 153.5 | 152.7 | 152.7 | 152.7 | 151.9 |
| 77.5° | 140.4 | 139.6 | 139.6 | 137.1 | 135.4 | 134.6 | 136.3 | 137.1 | 136.3 | 134.6 | 133.8 |
| 80° | 125.6 | 121.5 | 117.4 | 114.1 | 113.3 | 114.9 | 116.6 | 121.5 | 119.0 | 119.0 | 117.4 |
| 82.5° | 106.7 | 97.7 | 91.9 | 92.8 | 90.3 | 91.1 | 92.8 | 98.5 | 96.9 | 97.7 | 101.0 |
| 85° | 85.4 | 77.2 | 68.1 | 69.8 | 69.8 | 68.1 | 72.2 | 73.9 | 75.5 | 79.6 | 76.3 |
| 87.5° | 59.9 | 52.5 | 43.5 | 37.8 | 39.4 | 41.0 | 42.7 | 41.0 | 36.1 | 37.8 | 36.9 |
| 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: P146232

CATALOG NUMBER: VPL-E04-LED-E1-CPR-7060

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 |
| 2.5° | 1369.2 | 1370.1 | 1370.1 | 1364.3 | 1362.7 | 1364.3 | 1363.5 | 1363.5 | 1358.6 | 1359.4 | 1357.7 |
| 5° | 1419.3 | 1421.0 | 1416.0 | 1411.9 | 1406.2 | 1405.4 | 1404.5 | 1401.2 | 1398.0 | 1391.4 | 1388.1 |
| 7.5° | 1472.7 | 1465.3 | 1463.6 | 1456.2 | 1453.8 | 1447.2 | 1442.3 | 1437.4 | 1433.3 | 1430.0 | 1427.5 |
| 10° | 1506.3 | 1500.6 | 1498.9 | 1485.8 | 1481.7 | 1473.5 | 1468.6 | 1462.8 | 1457.9 | 1453.0 | 1452.1 |
| 12.5° | 1536.7 | 1526.8 | 1521.1 | 1503.0 | 1494.8 | 1485.8 | 1481.7 | 1476.8 | 1475.1 | 1474.3 | 1477.6 |
| 15° | 1560.5 | 1546.5 | 1535.9 | 1519.5 | 1512.9 | 1508.0 | 1508.8 | 1506.3 | 1516.2 | 1521.9 | 1532.6 |
| 17.5° | 1576.1 | 1570.4 | 1567.9 | 1555.6 | 1559.7 | 1559.7 | 1571.2 | 1576.9 | 1595.0 | 1609.8 | 1624.5 |
| 20° | 1584.3 | 1595.0 | 1615.5 | 1619.6 | 1629.5 | 1640.1 | 1657.4 | 1667.2 | 1686.1 | 1707.4 | 1728.0 |
| 22.5° | 1591.7 | 1636.8 | 1678.7 | 1709.9 | 1732.1 | 1756.7 | 1769.0 | 1789.5 | 1802.7 | 1818.3 | 1849.5 |
| 25° | 1632.7 | 1708.3 | 1782.1 | 1822.4 | 1874.9 | 1910.2 | 1938.1 | 1958.6 | 1981.6 | 1994.7 | 2030.0 |
| 27.5° | 1621.2 | 1717.3 | 1815.8 | 1889.7 | 1971.8 | 2038.3 | 2097.4 | 2136.8 | 2166.3 | 2213.9 | 2243.5 |
| 30° | 1568.7 | 1680.4 | 1799.4 | 1904.5 | 2019.4 | 2127.7 | 2230.3 | 2322.3 | 2401.1 | 2465.1 | 2508.6 |
| 32.5° | 1494.0 | 1622.1 | 1761.6 | 1891.3 | 2038.3 | 2182.7 | 2330.5 | 2470.9 | 2604.7 | 2710.6 | 2777.1 |
| 35° | 1410.3 | 1548.2 | 1702.5 | 1856.0 | 2032.5 | 2221.3 | 2420.8 | 2609.6 | 2803.3 | 2972.4 | 3105.4 |
| 37.5° | 1308.5 | 1457.9 | 1627.0 | 1805.1 | 2007.9 | 2234.4 | 2485.6 | 2742.6 | 2989.7 | 3245.8 | 3432.9 |
| 40° | 1201.8 | 1347.9 | 1523.6 | 1727.1 | 1961.1 | 2227.9 | 2535.7 | 2869.0 | 3226.9 | 3556.9 | 3841.7 |
| 42.5° | 1110.7 | 1253.5 | 1437.4 | 1638.5 | 1890.5 | 2203.3 | 2569.4 | 2982.3 | 3423.1 | 3850.8 | 4229.2 |
| 45° | 1021.2 | 1173.9 | 1359.4 | 1572.0 | 1847.0 | 2193.4 | 2612.9 | 3080.8 | 3584.0 | 4091.3 | 4574.0 |
| 47.5° | 950.6 | 1101.6 | 1288.8 | 1517.0 | 1811.7 | 2187.7 | 2653.9 | 3172.7 | 3715.3 | 4270.2 | 4842.4 |
| 50° | 883.3 | 1027.7 | 1210.0 | 1450.5 | 1774.8 | 2178.6 | 2678.5 | 3245.8 | 3817.9 | 4410.6 | 5032.8 |
| 52.5° | 814.3 | 964.5 | 1141.9 | 1375.0 | 1726.3 | 2160.6 | 2685.9 | 3303.2 | 3923.8 | 4545.2 | 5211.0 |
| 55° | 744.5 | 894.8 | 1072.1 | 1313.4 | 1660.6 | 2125.3 | 2680.2 | 3345.1 | 4034.6 | 4687.2 | 5373.5 |
| 57.5° | 659.2 | 806.9 | 992.4 | 1235.4 | 1576.1 | 2054.7 | 2652.3 | 3363.2 | 4103.6 | 4820.2 | 5536.9 |
| 60° | 563.1 | 702.7 | 878.3 | 1126.3 | 1472.7 | 1952.9 | 2589.9 | 3337.7 | 4134.8 | 4908.1 | 5710.1 |
| 62.5° | 442.5 | 563.9 | 725.7 | 971.9 | 1322.4 | 1805.9 | 2453.6 | 3225.3 | 4059.3 | 4885.9 | 5784.8 |
| 63° | 415.4 | 532.8 | 699.4 | 930.9 | 1278.1 | 1755.1 | 2413.4 | 3186.7 | 4025.6 | 4865.4 | 5775.7 |
| 65° | 316.9 | 403.9 | 541.8 | 748.6 | 1080.3 | 1520.3 | 2201.6 | 2968.3 | 3813.8 | 4661.0 | 5633.7 |
| 67.5° | 234.0 | 279.1 | 363.7 | 502.4 | 760.1 | 1182.9 | 1804.3 | 2563.6 | 3364.0 | 4160.2 | 5150.2 |
| 70° | 193.7 | 211.0 | 250.4 | 321.8 | 470.4 | 784.8 | 1274.8 | 1951.2 | 2704.0 | 3389.4 | 4283.4 |
| 72.5° | 173.2 | 185.5 | 203.6 | 235.6 | 297.2 | 460.5 | 829.1 | 1266.6 | 1883.1 | 2475.8 | 3231.0 |
| 75° | 155.1 | 163.4 | 178.1 | 197.0 | 224.9 | 288.1 | 438.4 | 751.1 | 1150.9 | 1668.0 | 2216.4 |
| 77.5° | 136.3 | 144.5 | 159.3 | 174.0 | 192.1 | 219.2 | 271.7 | 427.7 | 688.7 | 973.6 | 1360.2 |
| 80° | 118.2 | 122.3 | 134.6 | 156.0 | 169.1 | 191.3 | 208.5 | 267.6 | 375.1 | 509.8 | 724.8 |
| 82.5° | 97.7 | 98.5 | 106.7 | 123.1 | 139.6 | 147.8 | 152.7 | 168.3 | 215.9 | 269.3 | 355.4 |
| 85° | 69.8 | 66.5 | 71.4 | 78.0 | 91.1 | 83.7 | 89.5 | 94.4 | 114.9 | 138.7 | 254.5 |
| 87.5° | 31.2 | 24.6 | 28.7 | 32.0 | 28.7 | 19.7 | 28.7 | 23.8 | 29.6 | 58.3 | 65.7 |
| 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: P146232
 CATALOG NUMBER: VPL-E04-LED-E1-CPR-7060

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° | |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|-------|
| 0° | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 0° |
| 2.5° | 1359.4 | 1354.5 | 1354.5 | 1353.6 | 1354.5 | 1352.8 | 1349.5 | 1349.5 | 1352.0 | 1351.2 | 1351.2 | 2.5° |
| 5° | 1388.1 | 1381.5 | 1379.9 | 1379.1 | 1379.1 | 1375.0 | 1370.1 | 1367.6 | 1366.8 | 1363.5 | 1361.0 | 5° |
| 7.5° | 1425.9 | 1421.8 | 1424.2 | 1419.3 | 1417.7 | 1416.8 | 1410.3 | 1405.4 | 1398.0 | 1394.7 | 1382.4 | 7.5° |
| 10° | 1457.1 | 1454.6 | 1461.2 | 1460.4 | 1461.2 | 1461.2 | 1452.1 | 1447.2 | 1436.5 | 1430.8 | 1415.2 | 10° |
| 12.5° | 1484.2 | 1485.8 | 1498.1 | 1498.1 | 1500.6 | 1503.9 | 1498.9 | 1488.3 | 1484.2 | 1478.4 | 1462.0 | 12.5° |
| 15° | 1553.1 | 1559.7 | 1568.7 | 1583.5 | 1587.6 | 1588.4 | 1592.5 | 1583.5 | 1572.8 | 1558.0 | 1538.3 | 15° |
| 17.5° | 1646.7 | 1659.8 | 1690.2 | 1711.5 | 1715.6 | 1719.8 | 1717.3 | 1715.6 | 1695.9 | 1683.6 | 1663.1 | 17.5° |
| 20° | 1764.1 | 1796.1 | 1838.8 | 1868.3 | 1881.5 | 1883.1 | 1899.5 | 1888.0 | 1870.0 | 1845.3 | 1815.8 | 20° |
| 22.5° | 1895.4 | 1948.8 | 2003.0 | 2046.5 | 2071.9 | 2083.4 | 2100.6 | 2084.2 | 2060.4 | 2045.6 | 2006.2 | 22.5° |
| 25° | 2075.2 | 2133.5 | 2195.9 | 2230.3 | 2295.2 | 2314.1 | 2323.9 | 2319.0 | 2294.4 | 2305.0 | 2268.9 | 25° |
| 27.5° | 2321.5 | 2371.5 | 2459.4 | 2502.9 | 2563.6 | 2598.9 | 2591.5 | 2632.6 | 2640.0 | 2665.4 | 2669.5 | 27.5° |
| 30° | 2589.9 | 2672.8 | 2791.0 | 2878.8 | 2971.6 | 3031.5 | 3079.1 | 3115.3 | 3157.1 | 3227.7 | 3270.4 | 30° |
| 32.5° | 2879.7 | 2999.5 | 3150.6 | 3336.9 | 3533.9 | 3694.8 | 3876.2 | 3907.4 | 4001.0 | 3973.9 | 3955.8 | 32.5° |
| 35° | 3202.3 | 3353.3 | 3547.0 | 3791.7 | 4078.2 | 4344.1 | 4519.0 | 4606.8 | 4643.7 | 4664.3 | 4539.5 | 35° |
| 37.5° | 3634.1 | 3838.5 | 4054.3 | 4321.1 | 4540.3 | 4789.0 | 4990.2 | 5208.5 | 5308.7 | 5261.0 | 5022.2 | 37.5° |
| 40° | 4112.6 | 4303.9 | 4596.1 | 4814.5 | 5073.1 | 5482.7 | 5755.2 | 6017.9 | 6100.0 | 5941.6 | 5567.2 | 40° |
| 42.5° | 4592.8 | 4855.5 | 5172.4 | 5482.7 | 5779.8 | 6150.9 | 6512.1 | 6771.5 | 6861.8 | 6590.9 | 6146.8 | 42.5° |
| 45° | 5020.5 | 5357.1 | 5729.8 | 6048.3 | 6463.6 | 6948.8 | 7391.2 | 7599.7 | 7583.3 | 7148.3 | 6648.3 | 45° |
| 47.5° | 5393.2 | 5829.9 | 6250.2 | 6679.5 | 7098.2 | 7645.7 | 8084.1 | 8323.8 | 8153.8 | 7696.6 | 7130.2 | 47.5° |
| 50° | 5701.0 | 6228.9 | 6736.2 | 7229.5 | 7743.4 | 8325.4 | 8748.2 | 8969.8 | 8711.2 | 8132.5 | 7499.6 | 50° |
| 52.5° | 5935.0 | 6589.2 | 7173.7 | 7725.3 | 8339.4 | 8968.2 | 9344.1 | 9477.9 | 9074.9 | 8469.9 | 7776.2 | 52.5° |
| 55° | 6155.8 | 6895.4 | 7542.3 | 8168.6 | 8932.9 | 9496.8 | 9849.0 | 9824.3 | 9303.9 | 8616.8 | 7949.4 | 55° |
| 57.5° | 6322.5 | 7156.5 | 7845.2 | 8558.5 | 9381.9 | 9984.4 | 10188.0 | 10025.5 | 9399.1 | 8660.3 | 7999.5 | 57.5° |
| 60° | 6532.6 | 7360.0 | 8114.4 | 8910.7 | 9808.7 | 10318.5 | 10345.6 | 10054.2 | 9372.0 | 8578.2 | 7928.9 | 60° |
| 62.5° | 6667.2 | 7487.3 | 8286.0 | 9152.0 | 10133.8 | 10506.5 | 10312.8 | 9930.2 | 9216.1 | 8375.5 | 7767.2 | 62.5° |
| 63° | 6680.4 | 7499.6 | 8300.0 | 9175.8 | 10179.8 | 10514.7 | 10282.4 | 9874.4 | 9170.1 | 8319.7 | 7724.5 | 63° |
| 65° | 6621.3 | 7464.3 | 8235.9 | 9133.2 | 10191.3 | 10417.8 | 10059.9 | 9645.4 | 8916.4 | 8034.8 | 7473.3 | 65° |
| 67.5° | 6208.3 | 7085.1 | 7821.4 | 8662.8 | 9748.0 | 9873.6 | 9514.9 | 9064.2 | 8379.6 | 7420.8 | 6924.2 | 67.5° |
| 70° | 5468.7 | 6301.9 | 6824.0 | 7605.5 | 8560.2 | 8710.4 | 8389.4 | 8040.6 | 7432.3 | 6631.1 | 6219.0 | 70° |
| 72.5° | 4405.7 | 5224.1 | 5537.7 | 6136.1 | 6894.6 | 6861.8 | 6636.0 | 6592.5 | 6272.4 | 5600.1 | 5352.2 | 72.5° |
| 75° | 3293.4 | 4072.4 | 4204.6 | 4448.4 | 4871.9 | 4861.3 | 4913.8 | 5101.0 | 5261.0 | 4863.7 | 4546.1 | 75° |
| 77.5° | 2172.1 | 2947.0 | 3029.1 | 3313.1 | 3430.5 | 3752.3 | 4129.9 | 4600.2 | 4833.4 | 4670.8 | 4280.9 | 77.5° |
| 80° | 1201.8 | 2016.1 | 1999.7 | 2110.5 | 2318.2 | 2786.1 | 3358.2 | 4056.8 | 4523.1 | 4406.5 | 3979.6 | 80° |
| 82.5° | 624.7 | 1274.0 | 1255.1 | 1274.8 | 1467.7 | 1860.9 | 2296.0 | 2867.3 | 3349.2 | 3359.9 | 3216.2 | 82.5° |
| 85° | 464.6 | 914.5 | 968.6 | 1013.0 | 1141.0 | 1278.1 | 1357.7 | 1540.8 | 1805.1 | 2051.4 | 2139.2 | 85° |
| 87.5° | 170.7 | 549.2 | 683.8 | 734.7 | 738.0 | 720.7 | 586.9 | 646.0 | 587.8 | 695.3 | 971.1 | 87.5° |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90° |



NUMBER: P146232

NUMBER: VPL-E04-LED-E1-CPR-7060

DISTRIBUTION (continued):

| 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 | 1357.7 |
| 1352.8 | 1352.8 | 1352.0 | 1353.6 | 1354.5 | 1356.9 | 1356.1 |
| 1358.6 | 1356.1 | 1353.6 | 1352.0 | 1350.4 | 1351.2 | 1349.5 |
| 1373.3 | 1365.1 | 1358.6 | 1352.8 | 1347.9 | 1347.1 | 1342.1 |
| 1406.2 | 1391.4 | 1379.1 | 1370.1 | 1360.2 | 1355.3 | 1346.3 |
| 1448.0 | 1431.6 | 1416.0 | 1402.9 | 1391.4 | 1384.8 | 1378.3 |
| 1521.1 | 1497.3 | 1478.4 | 1464.5 | 1453.0 | 1445.6 | 1439.0 |
| 1629.5 | 1599.9 | 1571.2 | 1544.1 | 1540.8 | 1523.6 | 1523.6 |
| 1778.9 | 1738.6 | 1701.7 | 1678.7 | 1668.0 | 1645.1 | 1645.1 |
| 1985.7 | 1946.3 | 1891.3 | 1863.4 | 1865.9 | 1846.2 | 1855.2 |
| 2253.3 | 2220.5 | 2163.9 | 2152.4 | 2152.4 | 2131.0 | 2099.0 |
| 2654.7 | 2643.2 | 2580.9 | 2596.5 | 2563.6 | 2484.0 | 2397.8 |
| 3250.7 | 3250.7 | 3130.0 | 3043.0 | 2967.5 | 2843.5 | 2691.7 |
| 3847.5 | 3769.5 | 3584.8 | 3437.0 | 3280.3 | 3090.6 | 2895.3 |
| 4351.5 | 4143.8 | 3956.7 | 3776.1 | 3540.5 | 3336.9 | 3062.7 |
| 4776.7 | 4579.7 | 4365.5 | 4090.5 | 3813.8 | 3529.8 | 3177.6 |
| 5303.7 | 5064.0 | 4742.2 | 4396.7 | 4056.8 | 3666.1 | 3258.1 |
| 5785.6 | 5485.1 | 5078.8 | 4641.3 | 4208.7 | 3772.8 | 3296.7 |
| 6238.7 | 5851.3 | 5349.7 | 4824.3 | 4331.8 | 3838.5 | 3313.1 |
| 6665.6 | 6146.0 | 5562.3 | 4954.9 | 4416.4 | 3873.8 | 3309.0 |
| 6947.1 | 6361.9 | 5696.1 | 5033.7 | 4467.3 | 3886.1 | 3297.5 |
| 7123.6 | 6494.0 | 5774.9 | 5077.2 | 4492.7 | 3888.5 | 3296.7 |
| 7223.0 | 6568.7 | 5817.6 | 5107.5 | 4520.6 | 3903.3 | 3316.4 |
| 7300.1 | 6627.8 | 5865.2 | 5159.3 | 4587.1 | 3972.3 | 3396.0 |
| 7373.2 | 6783.0 | 5989.2 | 5254.5 | 4702.8 | 4101.1 | 3570.8 |
| 7403.6 | 7077.7 | 6241.2 | 5430.2 | 4864.6 | 4308.0 | 3843.4 |
| 7401.1 | 7133.5 | 6314.2 | 5478.6 | 4907.2 | 4363.0 | 3913.2 |
| 7311.6 | 7310.8 | 6646.7 | 5710.1 | 5105.9 | 4617.5 | 4204.6 |
| 7046.5 | 7399.5 | 7014.5 | 6015.4 | 5414.6 | 5036.9 | 4642.9 |
| 6627.0 | 7291.9 | 7064.5 | 6095.9 | 5633.7 | 5421.9 | 4935.2 |
| 5904.6 | 6778.0 | 6595.8 | 5752.8 | 5559.0 | 5497.5 | 4942.5 |
| 4775.9 | 5449.0 | 5371.0 | 4914.6 | 4986.1 | 5112.5 | 4414.7 |
| 3847.5 | 3826.1 | 3814.6 | 3648.8 | 3952.6 | 4209.5 | 3281.9 |
| 3213.8 | 2647.4 | 2458.5 | 2394.5 | 2895.3 | 3092.3 | 2036.6 |
| 3004.4 | 2378.1 | 1907.7 | 1827.3 | 2169.6 | 2274.7 | 1228.0 |
| 2296.0 | 2309.1 | 1998.9 | 1713.2 | 1687.7 | 1544.9 | 899.7 |
| 1123.8 | 1142.7 | 1207.5 | 1102.4 | 945.7 | 797.1 | 283.2 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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