

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: P145599

Luminaire Tested: **VPL-E01-LED-E1-GL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145599
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33703)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-E01-LED-E1-GL4-7030
Description: VALET LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ GLARE CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2632.3 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

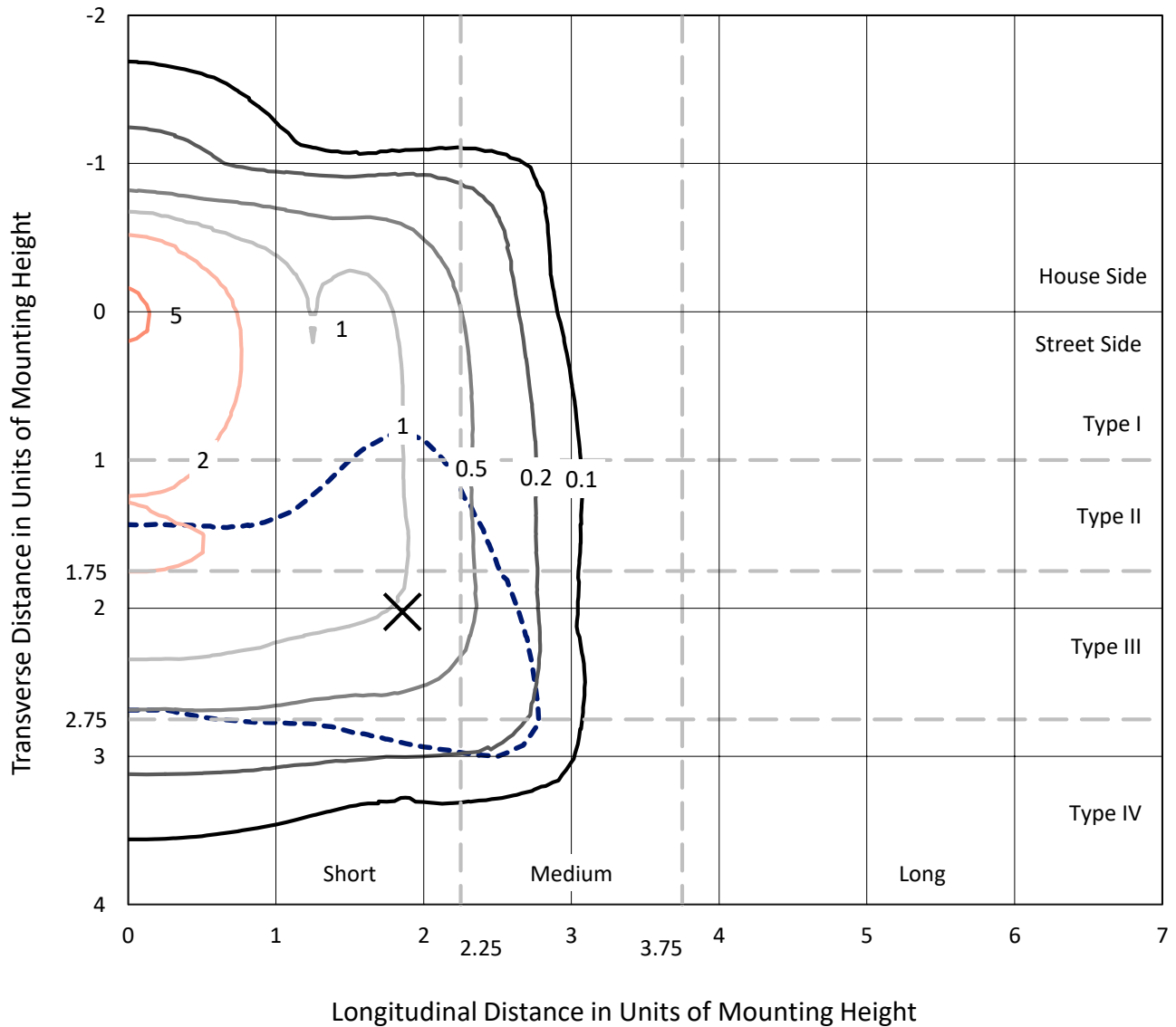
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P145599
 CATALOG NUMBER: VPL-E01-LED-E1-GL4-7030

Iso-Footcandle Lines of Horizontal Illumination

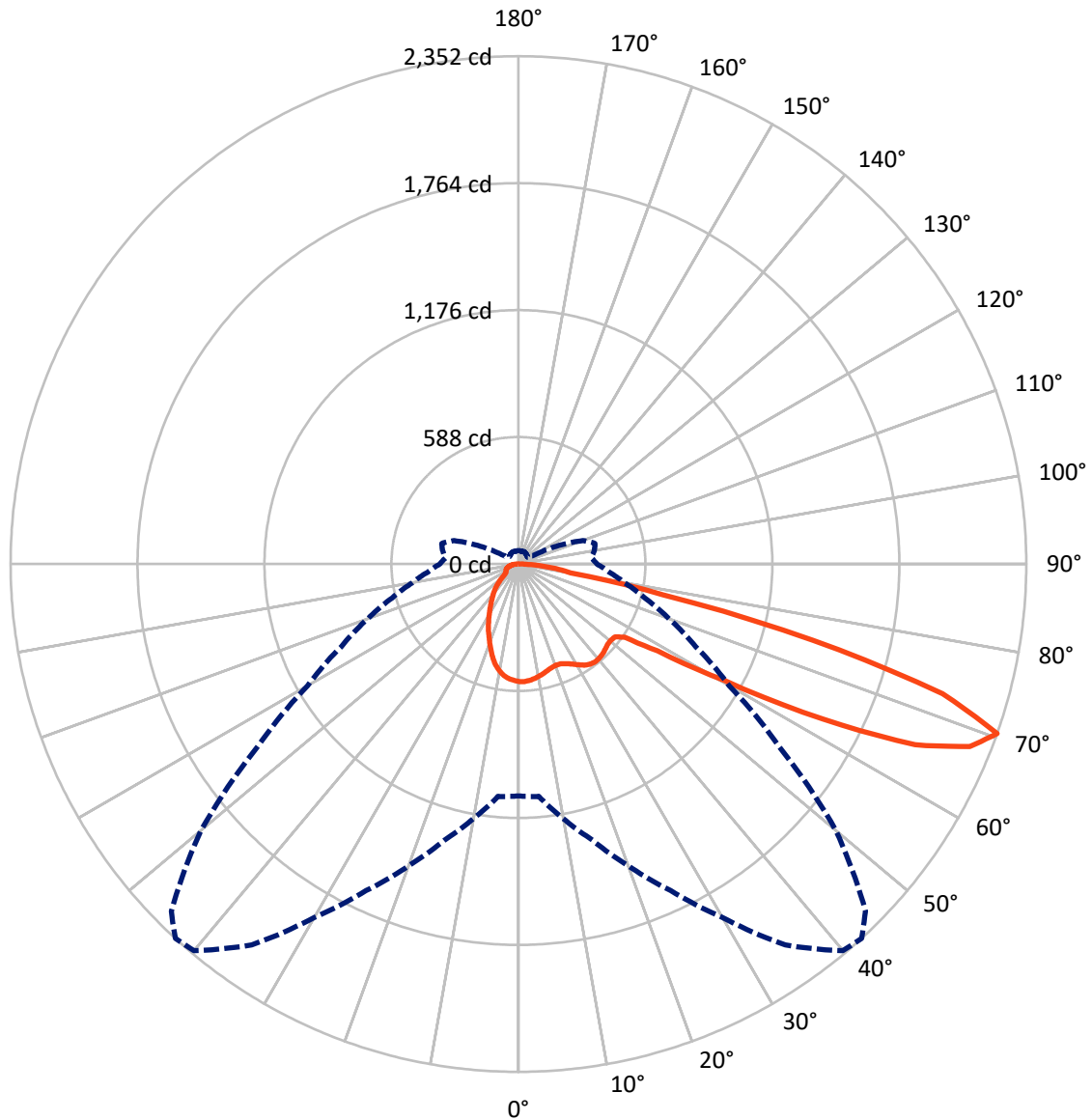
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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CATALOG NUMBER: VPL-E01-LED-E1-GL4-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 568.6 | 0.0 | 568.6 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 2063.7 | 0.0 | 2063.7 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 2632.3 | 0.0 | 2632.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.6 | 1.9 |
| 10°-20° | 136.4 | 5.2 |
| 20°-30° | 199.0 | 7.6 |
| 30°-40° | 253.8 | 9.6 |
| 40°-50° | 296.3 | 11.3 |
| 50°-60° | 453.1 | 17.2 |
| 60°-70° | 821.3 | 31.2 |
| 70°-80° | 365.2 | 13.9 |
| 80°-90° | 56.5 | 2.1 |
| 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° | 2632.3 | 100.0 |
| 0°-180° | 2632.3 | 100.0 |



REPORT NUMBER: P145599

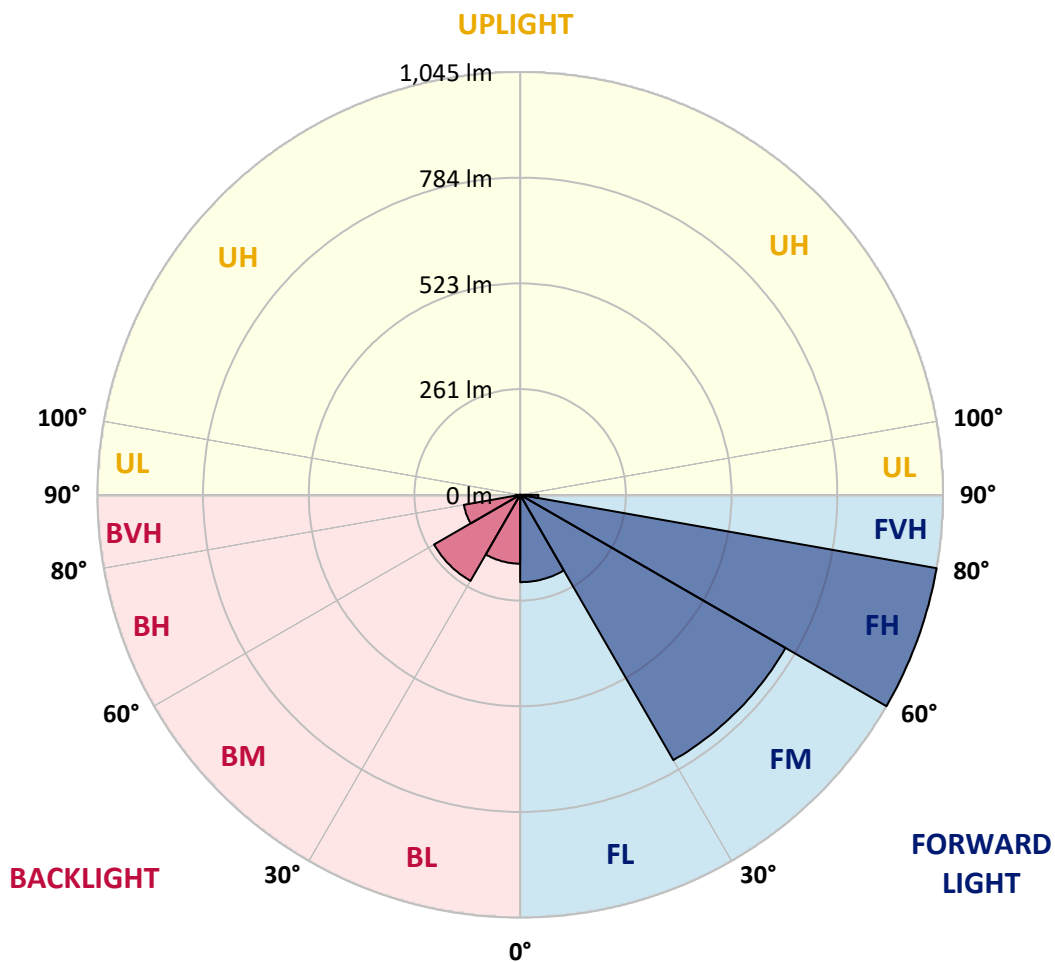
CATALOG NUMBER: VPL-E01-LED-E1-GL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 215.9 | 8.2 | | | |
| FM (30°-60°) | 757.4 | 28.8 | | | |
| FH (60°-80°) | 1045.2 | 39.7 | | | G1/1800 |
| FVH (80°-90°) | 45.1 | 1.7 | | | G1/100 |
| BL (0°-30°) | 170.2 | 6.5 | B1/500 | | |
| BM (30°-60°) | 245.8 | 9.3 | B1/1000 | | |
| BH (60°-80°) | 141.3 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.4 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P145599

CATALOG NUMBER: VPL-E01-LED-E1-GL4-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 42.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |
| 2.5° | 546.9 | 546.4 | 546.7 | 547.1 | 547.1 | 547.3 | 545.6 | 545.8 | 545.1 | 545.3 | 545.5 |
| 5° | 544.9 | 544.4 | 544.7 | 544.7 | 544.7 | 544.5 | 542.3 | 542.2 | 541.3 | 541.3 | 540.9 |
| 7.5° | 541.1 | 539.1 | 540.2 | 540.3 | 540.0 | 539.1 | 537.8 | 536.5 | 536.0 | 536.0 | 534.7 |
| 10° | 535.2 | 533.0 | 533.6 | 533.9 | 533.8 | 531.9 | 531.4 | 530.1 | 528.6 | 528.1 | 526.6 |
| 12.5° | 527.7 | 526.3 | 527.0 | 526.8 | 526.8 | 525.2 | 524.3 | 522.4 | 520.6 | 519.7 | 517.9 |
| 15° | 523.0 | 521.2 | 521.9 | 521.9 | 521.2 | 519.5 | 518.2 | 514.9 | 511.8 | 510.7 | 508.4 |
| 17.5° | 525.9 | 524.1 | 524.8 | 524.3 | 523.0 | 519.5 | 516.2 | 510.9 | 506.0 | 503.1 | 500.0 |
| 20° | 537.6 | 535.8 | 536.3 | 536.0 | 534.1 | 528.5 | 522.4 | 513.3 | 504.2 | 499.8 | 495.0 |
| 22.5° | 556.2 | 554.8 | 555.7 | 555.1 | 552.2 | 544.9 | 536.0 | 522.8 | 509.1 | 502.5 | 495.8 |
| 25° | 583.8 | 583.4 | 584.9 | 583.3 | 579.1 | 568.1 | 555.1 | 537.4 | 519.5 | 511.3 | 501.8 |
| 27.5° | 617.1 | 614.0 | 616.1 | 614.7 | 611.8 | 597.9 | 580.3 | 557.9 | 535.0 | 524.3 | 512.9 |
| 30° | 647.0 | 644.3 | 648.3 | 647.6 | 643.2 | 628.9 | 606.8 | 580.5 | 554.8 | 541.1 | 528.1 |
| 32.5° | 681.7 | 678.3 | 681.4 | 681.4 | 674.8 | 655.6 | 630.4 | 600.3 | 573.2 | 558.6 | 543.1 |
| 35° | 718.1 | 714.4 | 717.3 | 716.4 | 704.7 | 679.3 | 647.7 | 615.1 | 585.3 | 570.3 | 554.4 |
| 37.5° | 751.9 | 751.3 | 752.1 | 746.0 | 729.8 | 697.3 | 659.4 | 622.9 | 591.3 | 575.6 | 559.0 |
| 40° | 785.7 | 784.4 | 781.3 | 770.7 | 746.9 | 707.8 | 665.5 | 625.6 | 591.7 | 575.2 | 558.4 |
| 42.5° | 806.9 | 804.5 | 799.2 | 784.8 | 755.0 | 710.4 | 663.6 | 621.4 | 587.3 | 570.5 | 554.0 |
| 45° | 814.2 | 811.8 | 805.4 | 789.1 | 755.2 | 706.4 | 656.5 | 613.0 | 579.1 | 563.7 | 547.1 |
| 47.5° | 808.1 | 806.7 | 800.8 | 784.6 | 749.3 | 698.9 | 647.6 | 604.6 | 571.2 | 556.2 | 540.7 |
| 50° | 797.9 | 797.0 | 791.9 | 776.9 | 743.8 | 694.3 | 643.4 | 600.6 | 569.0 | 555.1 | 540.5 |
| 52.5° | 823.5 | 820.7 | 811.6 | 793.9 | 755.3 | 702.5 | 649.9 | 606.6 | 574.1 | 560.1 | 545.1 |
| 55° | 1137.9 | 1117.6 | 1072.3 | 987.3 | 868.4 | 776.2 | 698.5 | 646.3 | 611.2 | 597.5 | 583.3 |
| 57.5° | 1496.4 | 1475.2 | 1456.4 | 1391.6 | 1250.4 | 1076.1 | 919.4 | 827.7 | 764.8 | 758.8 | 753.1 |
| 60° | 1634.5 | 1641.3 | 1639.6 | 1615.5 | 1543.2 | 1460.4 | 1329.3 | 1221.0 | 1101.0 | 1096.0 | 1103.1 |
| 62.5° | 1729.7 | 1735.4 | 1736.1 | 1728.8 | 1705.2 | 1677.6 | 1650.2 | 1615.5 | 1592.7 | 1582.8 | 1519.1 |
| 65° | 1769.0 | 1777.2 | 1795.3 | 1808.8 | 1812.6 | 1822.1 | 1847.0 | 1941.4 | 2020.1 | 2019.6 | 1944.9 |
| 67.5° | 1619.0 | 1628.9 | 1697.4 | 1764.6 | 1821.0 | 1886.4 | 1987.1 | 2140.7 | 2259.3 | 2255.6 | 2194.4 |
| 70° | 1074.5 | 1080.7 | 1197.0 | 1323.6 | 1487.8 | 1669.4 | 1889.4 | 2154.2 | 2338.0 | 2352.4 | 2273.5 |
| 72.5° | 659.1 | 673.3 | 711.3 | 762.6 | 850.3 | 1018.6 | 1345.5 | 1798.2 | 2067.8 | 2054.3 | 1991.5 |
| 75° | 445.0 | 445.7 | 444.6 | 450.1 | 455.0 | 489.0 | 620.7 | 988.8 | 1400.7 | 1408.0 | 1381.0 |
| 77.5° | 304.1 | 308.2 | 310.4 | 308.9 | 313.8 | 312.4 | 320.0 | 338.9 | 536.9 | 685.2 | 629.7 |
| 80° | 265.8 | 267.4 | 269.8 | 266.3 | 257.2 | 252.1 | 259.2 | 252.5 | 237.8 | 245.7 | 235.3 |
| 82.5° | 168.2 | 173.2 | 173.7 | 185.8 | 203.7 | 204.4 | 213.5 | 206.8 | 188.2 | 175.9 | 160.9 |
| 85° | 120.9 | 122.8 | 126.0 | 126.8 | 120.6 | 115.3 | 118.6 | 112.9 | 101.7 | 95.2 | 84.2 |
| 87.5° | 70.5 | 72.3 | 75.6 | 73.6 | 67.4 | 59.7 | 53.9 | 46.4 | 36.7 | 34.3 | 30.3 |
| 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: P145599

CATALOG NUMBER: VPL-E01-LED-E1-GL4-7030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |
| 2.5° | 545.6 | 544.7 | 544.0 | 543.6 | 544.4 | 543.6 | 542.9 | 542.5 | 541.8 | 542.0 | 541.1 |
| 5° | 540.5 | 539.2 | 538.1 | 537.2 | 538.0 | 536.7 | 535.6 | 534.9 | 533.9 | 533.8 | 532.8 |
| 7.5° | 533.4 | 531.4 | 529.9 | 528.3 | 526.5 | 525.4 | 524.1 | 522.8 | 520.8 | 520.6 | 520.2 |
| 10° | 524.1 | 522.4 | 519.5 | 517.0 | 514.4 | 511.7 | 508.9 | 506.9 | 504.5 | 503.6 | 502.3 |
| 12.5° | 514.8 | 511.5 | 508.0 | 504.0 | 500.9 | 496.5 | 492.8 | 489.0 | 485.5 | 483.3 | 481.0 |
| 15° | 503.8 | 500.3 | 495.4 | 491.6 | 487.2 | 482.2 | 477.5 | 471.8 | 466.2 | 462.7 | 459.4 |
| 17.5° | 494.3 | 489.9 | 485.9 | 480.4 | 476.0 | 470.4 | 463.3 | 457.2 | 450.5 | 444.8 | 438.8 |
| 20° | 487.0 | 482.1 | 477.3 | 472.4 | 467.1 | 460.7 | 452.8 | 444.3 | 435.7 | 427.6 | 418.7 |
| 22.5° | 484.1 | 476.2 | 470.9 | 466.4 | 460.9 | 453.6 | 444.8 | 434.2 | 423.6 | 413.4 | 403.0 |
| 25° | 486.6 | 474.9 | 466.7 | 461.6 | 456.7 | 449.2 | 439.3 | 427.3 | 414.8 | 401.9 | 389.5 |
| 27.5° | 493.6 | 478.8 | 467.1 | 459.0 | 453.4 | 446.1 | 435.1 | 422.5 | 408.5 | 393.8 | 380.5 |
| 30° | 503.6 | 485.2 | 470.6 | 459.0 | 450.6 | 442.2 | 430.4 | 416.1 | 401.3 | 386.0 | 371.0 |
| 32.5° | 514.6 | 492.3 | 474.8 | 459.6 | 446.6 | 436.0 | 423.6 | 409.7 | 394.0 | 377.8 | 361.7 |
| 35° | 522.8 | 497.4 | 476.6 | 457.6 | 441.0 | 427.6 | 414.3 | 400.8 | 385.4 | 369.0 | 352.9 |
| 37.5° | 526.3 | 499.4 | 476.2 | 453.4 | 433.1 | 418.5 | 404.6 | 391.1 | 376.3 | 360.8 | 346.0 |
| 40° | 526.5 | 499.4 | 474.0 | 447.7 | 424.9 | 409.0 | 394.4 | 381.8 | 367.9 | 354.6 | 341.4 |
| 42.5° | 523.0 | 496.9 | 470.0 | 442.4 | 418.9 | 401.0 | 386.0 | 373.0 | 361.9 | 350.0 | 338.9 |
| 45° | 516.8 | 491.7 | 466.4 | 439.5 | 416.7 | 399.0 | 382.9 | 370.6 | 360.6 | 350.0 | 340.3 |
| 47.5° | 512.0 | 488.8 | 466.5 | 443.7 | 422.0 | 403.7 | 386.3 | 373.4 | 364.8 | 356.4 | 349.4 |
| 50° | 512.9 | 489.9 | 468.7 | 447.0 | 425.6 | 407.2 | 390.4 | 379.2 | 374.1 | 371.4 | 369.7 |
| 52.5° | 517.7 | 494.3 | 478.2 | 463.8 | 456.9 | 445.5 | 436.2 | 427.8 | 429.1 | 422.5 | 414.1 |
| 55° | 566.6 | 558.8 | 577.2 | 590.6 | 597.1 | 608.7 | 625.3 | 609.4 | 607.2 | 586.9 | 526.6 |
| 57.5° | 760.8 | 779.5 | 807.8 | 827.9 | 829.9 | 826.4 | 812.7 | 799.5 | 778.2 | 747.7 | 663.3 |
| 60° | 1086.5 | 1082.1 | 1055.8 | 1020.6 | 993.2 | 957.2 | 921.0 | 890.5 | 856.2 | 809.4 | 719.5 |
| 62.5° | 1429.0 | 1323.4 | 1229.7 | 1149.9 | 1082.1 | 1022.0 | 967.4 | 921.6 | 874.4 | 807.2 | 711.5 |
| 65° | 1705.6 | 1502.5 | 1337.3 | 1208.9 | 1108.1 | 1023.1 | 952.6 | 889.4 | 826.4 | 748.6 | 655.8 |
| 67.5° | 1903.2 | 1581.0 | 1331.8 | 1151.2 | 1009.8 | 892.9 | 790.2 | 718.3 | 653.6 | 592.4 | 550.6 |
| 70° | 1918.9 | 1472.3 | 1126.7 | 905.7 | 742.6 | 605.2 | 498.7 | 420.1 | 363.9 | 338.5 | 356.6 |
| 72.5° | 1639.8 | 1089.3 | 749.1 | 554.4 | 440.1 | 342.0 | 274.9 | 219.8 | 174.4 | 152.2 | 155.3 |
| 75° | 965.8 | 523.0 | 337.4 | 251.4 | 205.3 | 164.0 | 141.9 | 119.8 | 105.8 | 84.8 | 67.8 |
| 77.5° | 367.7 | 227.4 | 170.2 | 141.4 | 100.8 | 72.5 | 57.2 | 49.3 | 45.3 | 44.8 | 42.4 |
| 80° | 211.9 | 166.8 | 116.7 | 76.4 | 55.9 | 47.3 | 40.6 | 34.7 | 32.3 | 31.8 | 32.7 |
| 82.5° | 133.9 | 103.9 | 64.1 | 49.1 | 40.7 | 35.1 | 29.2 | 25.4 | 23.4 | 22.7 | 23.9 |
| 85° | 69.2 | 52.1 | 39.1 | 33.6 | 31.2 | 28.5 | 23.4 | 19.5 | 19.4 | 20.3 | 23.4 |
| 87.5° | 25.6 | 22.3 | 17.5 | 15.2 | 16.3 | 15.2 | 11.0 | 9.5 | 8.6 | 11.3 | 16.4 |
| 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: P145599

CATALOG NUMBER: VPL-E01-LED-E1-GL4-7030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |
| 2.5° | 541.1 | 540.7 | 540.9 | 540.5 | 540.5 | 541.1 | 540.3 | 539.8 | 540.7 | 540.7 | 541.3 |
| 5° | 532.7 | 533.0 | 533.0 | 532.8 | 533.2 | 534.1 | 533.9 | 533.9 | 535.4 | 536.0 | 536.7 |
| 7.5° | 519.3 | 519.9 | 520.1 | 520.6 | 520.8 | 522.1 | 523.0 | 524.1 | 526.3 | 526.8 | 528.5 |
| 10° | 501.2 | 500.9 | 502.2 | 502.0 | 503.6 | 504.7 | 505.4 | 507.8 | 511.1 | 512.9 | 514.6 |
| 12.5° | 479.9 | 479.9 | 480.6 | 480.8 | 482.2 | 483.7 | 484.6 | 487.5 | 490.3 | 492.7 | 496.3 |
| 15° | 457.2 | 456.5 | 454.8 | 454.7 | 455.2 | 456.7 | 458.7 | 460.9 | 465.1 | 468.5 | 471.7 |
| 17.5° | 433.5 | 431.3 | 429.3 | 426.7 | 426.5 | 426.4 | 427.4 | 429.1 | 435.7 | 439.1 | 443.5 |
| 20° | 412.5 | 407.7 | 403.0 | 397.7 | 394.6 | 393.1 | 393.7 | 395.8 | 402.1 | 406.6 | 411.2 |
| 22.5° | 393.7 | 386.5 | 379.0 | 370.6 | 365.5 | 362.4 | 362.8 | 363.7 | 368.3 | 371.0 | 373.4 |
| 25° | 377.6 | 367.7 | 357.3 | 346.5 | 339.4 | 334.7 | 334.5 | 334.5 | 332.5 | 332.8 | 331.5 |
| 27.5° | 366.6 | 352.9 | 339.6 | 327.0 | 317.7 | 312.9 | 306.5 | 302.0 | 297.9 | 292.5 | 290.1 |
| 30° | 356.0 | 342.0 | 326.8 | 312.9 | 301.8 | 292.5 | 280.6 | 270.7 | 262.9 | 255.4 | 249.0 |
| 32.5° | 346.5 | 331.9 | 317.5 | 302.3 | 287.0 | 270.9 | 255.4 | 244.0 | 232.9 | 221.4 | 213.7 |
| 35° | 338.1 | 324.4 | 310.0 | 292.8 | 271.3 | 250.3 | 232.7 | 217.4 | 204.2 | 190.3 | 179.2 |
| 37.5° | 333.4 | 321.0 | 306.0 | 282.6 | 255.6 | 231.6 | 212.1 | 194.9 | 177.4 | 160.7 | 147.0 |
| 40° | 331.0 | 320.0 | 301.8 | 272.2 | 241.5 | 215.9 | 194.2 | 173.5 | 152.9 | 133.3 | 119.1 |
| 42.5° | 330.6 | 320.0 | 295.6 | 261.6 | 229.4 | 202.0 | 177.7 | 152.9 | 127.9 | 108.9 | 96.3 |
| 45° | 333.9 | 319.7 | 289.0 | 252.1 | 218.7 | 189.6 | 160.4 | 131.2 | 105.4 | 88.8 | 81.8 |
| 47.5° | 343.4 | 321.0 | 283.9 | 244.0 | 208.4 | 175.9 | 140.7 | 107.0 | 85.1 | 77.6 | 77.5 |
| 50° | 358.8 | 326.8 | 282.8 | 238.2 | 198.4 | 158.7 | 117.5 | 85.7 | 75.1 | 74.7 | 76.7 |
| 52.5° | 383.1 | 337.8 | 285.5 | 234.2 | 186.3 | 136.5 | 93.0 | 74.0 | 72.0 | 74.0 | 76.5 |
| 55° | 436.6 | 357.3 | 289.2 | 227.1 | 166.8 | 108.1 | 76.5 | 70.1 | 71.1 | 73.4 | 75.8 |
| 57.5° | 533.9 | 397.9 | 293.0 | 211.0 | 135.2 | 83.1 | 68.9 | 68.7 | 70.3 | 72.3 | 74.5 |
| 60° | 595.7 | 447.9 | 302.3 | 187.2 | 102.1 | 68.7 | 65.9 | 67.8 | 69.8 | 71.2 | 73.1 |
| 62.5° | 597.7 | 461.1 | 307.3 | 161.8 | 76.0 | 62.8 | 63.4 | 66.9 | 69.2 | 69.8 | 70.7 |
| 65° | 559.2 | 436.2 | 285.0 | 131.7 | 63.0 | 59.6 | 61.6 | 64.7 | 67.0 | 67.4 | 68.1 |
| 67.5° | 488.5 | 384.7 | 241.5 | 99.4 | 57.4 | 57.0 | 59.2 | 61.6 | 63.2 | 64.7 | 65.8 |
| 70° | 367.9 | 317.5 | 194.2 | 77.1 | 53.9 | 53.5 | 55.7 | 57.7 | 59.2 | 61.0 | 62.8 |
| 72.5° | 186.5 | 219.8 | 147.2 | 63.0 | 49.1 | 49.5 | 51.9 | 53.7 | 54.8 | 56.4 | 58.3 |
| 75° | 63.6 | 95.9 | 93.2 | 51.0 | 43.8 | 45.3 | 46.4 | 48.4 | 50.1 | 51.1 | 52.1 |
| 77.5° | 39.8 | 41.6 | 48.0 | 41.1 | 38.7 | 39.1 | 40.9 | 42.7 | 44.6 | 45.3 | 45.7 |
| 80° | 33.2 | 33.4 | 33.6 | 32.9 | 33.1 | 34.2 | 35.3 | 37.3 | 39.1 | 39.5 | 39.6 |
| 82.5° | 26.3 | 28.1 | 27.9 | 27.8 | 28.7 | 29.8 | 30.5 | 31.2 | 32.0 | 32.3 | 32.9 |
| 85° | 23.2 | 22.8 | 23.0 | 23.6 | 22.8 | 22.1 | 21.9 | 21.9 | 23.0 | 24.3 | 24.8 |
| 87.5° | 21.2 | 18.1 | 13.5 | 12.8 | 12.8 | 12.4 | 11.7 | 11.7 | 12.8 | 13.9 | 14.4 |
| 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: P145599

CATALOG NUMBER: VPL-E01-LED-E1-GL4-7030

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |
| 2.5° | 541.1 | 541.3 | 541.1 | 541.1 | 542.0 |
| 5° | 537.0 | 537.8 | 537.4 | 538.0 | 538.5 |
| 7.5° | 528.8 | 530.7 | 531.0 | 532.5 | 531.9 |
| 10° | 517.0 | 518.2 | 520.1 | 521.5 | 521.0 |
| 12.5° | 498.1 | 501.2 | 504.0 | 505.6 | 505.3 |
| 15° | 474.2 | 478.6 | 482.2 | 483.5 | 482.1 |
| 17.5° | 448.6 | 451.4 | 455.8 | 456.7 | 458.1 |
| 20° | 416.3 | 416.1 | 420.0 | 420.0 | 419.2 |
| 22.5° | 374.1 | 376.8 | 376.8 | 374.3 | 373.0 |
| 25° | 331.0 | 331.9 | 329.2 | 329.7 | 326.2 |
| 27.5° | 287.7 | 285.3 | 283.1 | 284.1 | 281.5 |
| 30° | 246.4 | 241.3 | 239.1 | 239.5 | 236.7 |
| 32.5° | 206.8 | 200.8 | 198.6 | 195.6 | 193.3 |
| 35° | 170.8 | 161.3 | 155.6 | 154.2 | 155.8 |
| 37.5° | 135.5 | 128.8 | 122.0 | 117.1 | 117.6 |
| 40° | 107.2 | 100.3 | 95.9 | 93.9 | 93.5 |
| 42.5° | 88.6 | 84.6 | 83.7 | 83.8 | 83.8 |
| 45° | 80.4 | 80.6 | 81.3 | 82.0 | 82.2 |
| 47.5° | 78.7 | 79.8 | 81.1 | 82.0 | 82.2 |
| 50° | 78.5 | 79.6 | 80.6 | 81.7 | 82.0 |
| 52.5° | 78.4 | 79.1 | 79.6 | 80.2 | 80.7 |
| 55° | 77.6 | 78.0 | 77.8 | 78.2 | 78.7 |
| 57.5° | 75.8 | 76.0 | 75.6 | 75.8 | 76.9 |
| 60° | 74.2 | 74.3 | 73.6 | 74.5 | 74.7 |
| 62.5° | 72.2 | 72.0 | 71.6 | 72.2 | 72.2 |
| 65° | 69.2 | 68.1 | 68.5 | 69.0 | 69.2 |
| 67.5° | 65.8 | 64.7 | 64.7 | 65.0 | 65.6 |
| 70° | 61.4 | 60.8 | 60.8 | 61.6 | 62.3 |
| 72.5° | 56.4 | 56.8 | 57.9 | 59.0 | 60.1 |
| 75° | 52.4 | 53.3 | 54.4 | 57.2 | 58.8 |
| 77.5° | 47.3 | 47.5 | 48.4 | 51.1 | 54.1 |
| 80° | 40.2 | 40.0 | 40.2 | 40.6 | 41.1 |
| 82.5° | 31.8 | 31.4 | 30.3 | 30.7 | 30.0 |
| 85° | 23.4 | 22.8 | 21.6 | 20.6 | 20.5 |
| 87.5° | 13.5 | 13.5 | 13.0 | 12.2 | 11.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)