

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: STREETWORKS

Report Number: P177525

Luminaire Tested: **VAL-F01-LED-E-U-GL4-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177525
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-F01-LED-E-U-GL4-HSS-7060
Description: VALET TUNNEL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE IV W/ GLARE CONTROL AND HOUSE SIDE SHIELD
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1671.9 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

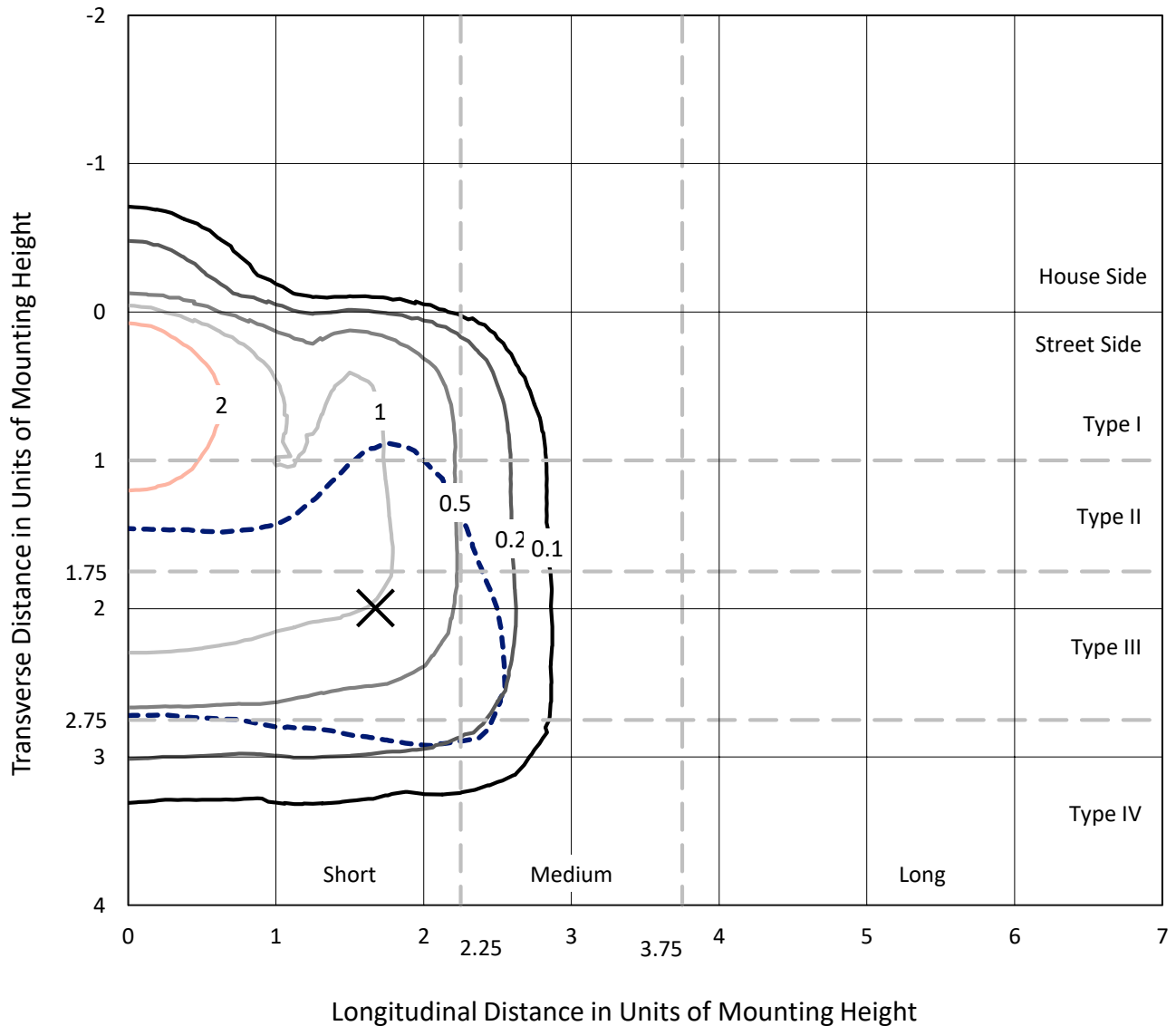
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

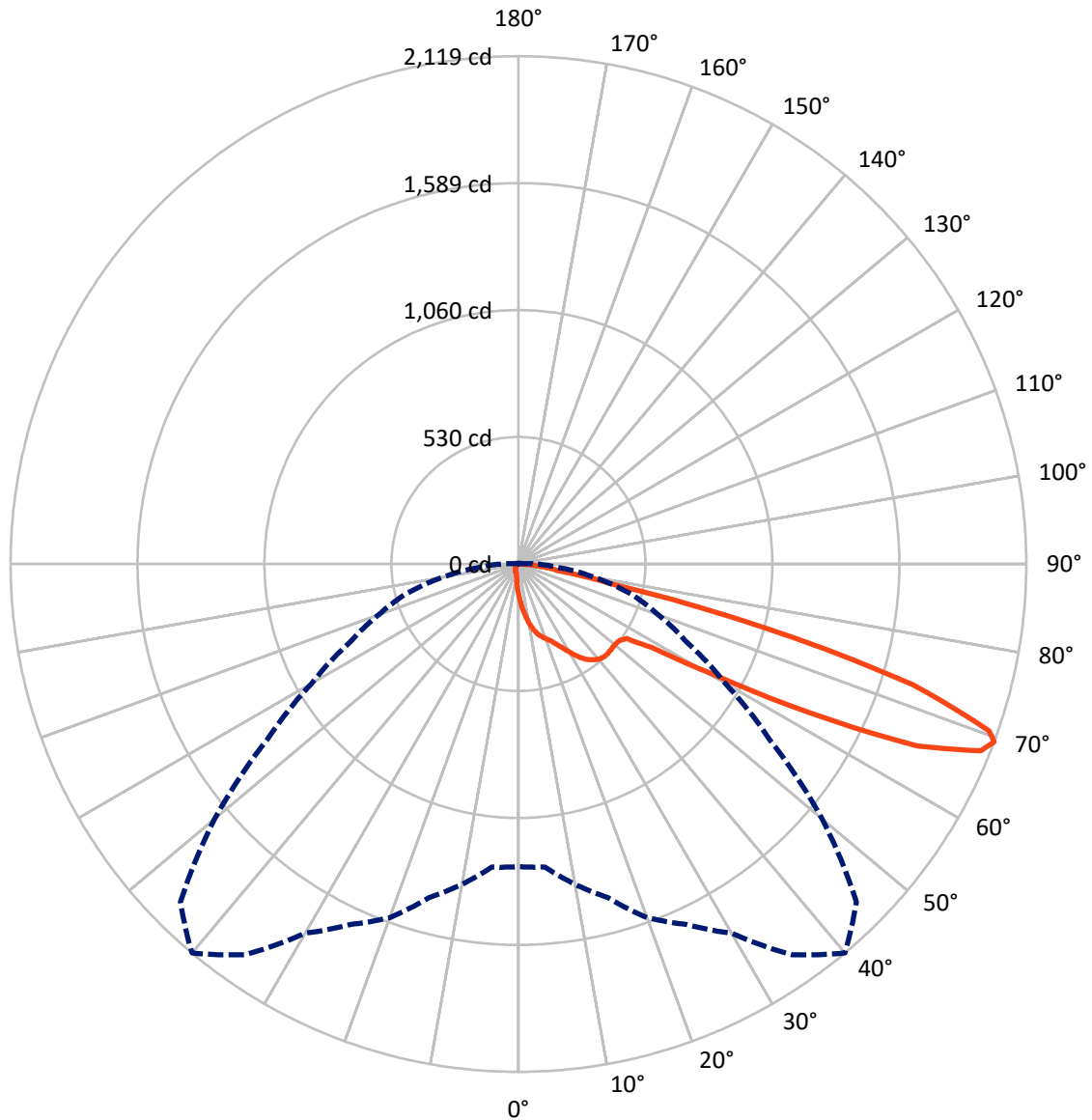
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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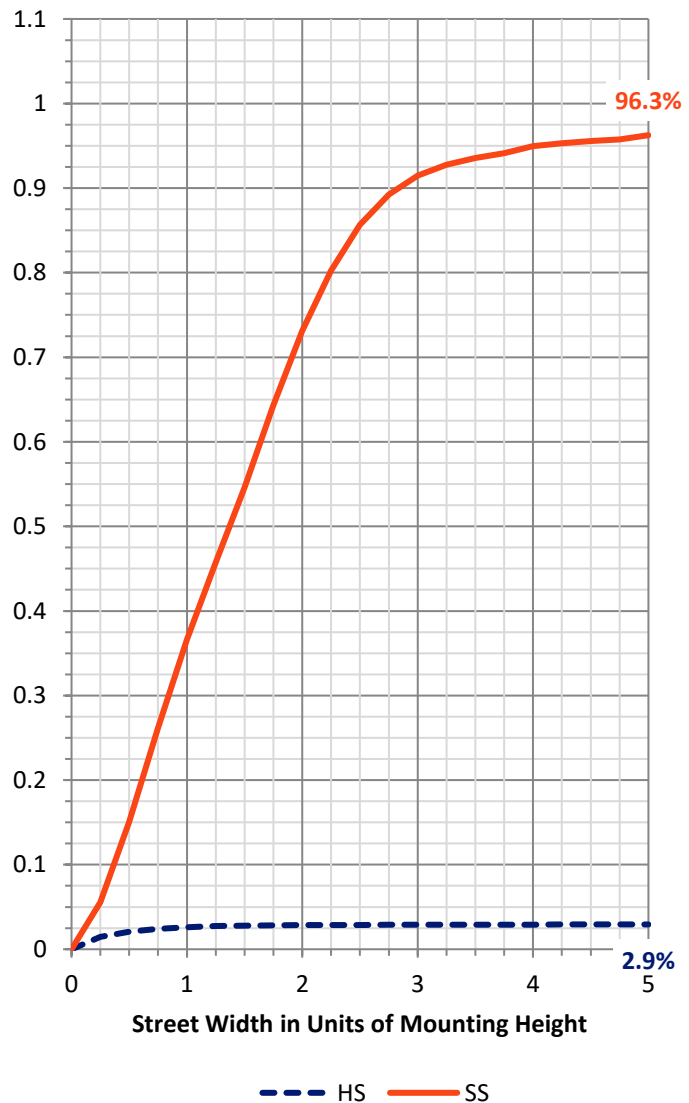
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 49.8 | 0.0 | 49.8 |
| | % Fixture | 3.0 | 0.0 | 3.0 |
| Street Side | Lumens | 1622.1 | 0.0 | 1622.1 |
| | % Fixture | 97.0 | 0.0 | 97.0 |
| Total | Lumens | 1671.9 | 0.0 | 1671.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.0 | 0.8 |
| 10°-20° | 44.7 | 2.7 |
| 20°-30° | 85.6 | 5.1 |
| 30°-40° | 142.4 | 8.5 |
| 40°-50° | 192.7 | 11.5 |
| 50°-60° | 301.4 | 18.0 |
| 60°-70° | 619.6 | 37.1 |
| 70°-80° | 249.3 | 14.9 |
| 80°-90° | 23.1 | 1.4 |
| 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° | 1671.9 | 100.0 |
| 0°-180° | 1671.9 | 100.0 |



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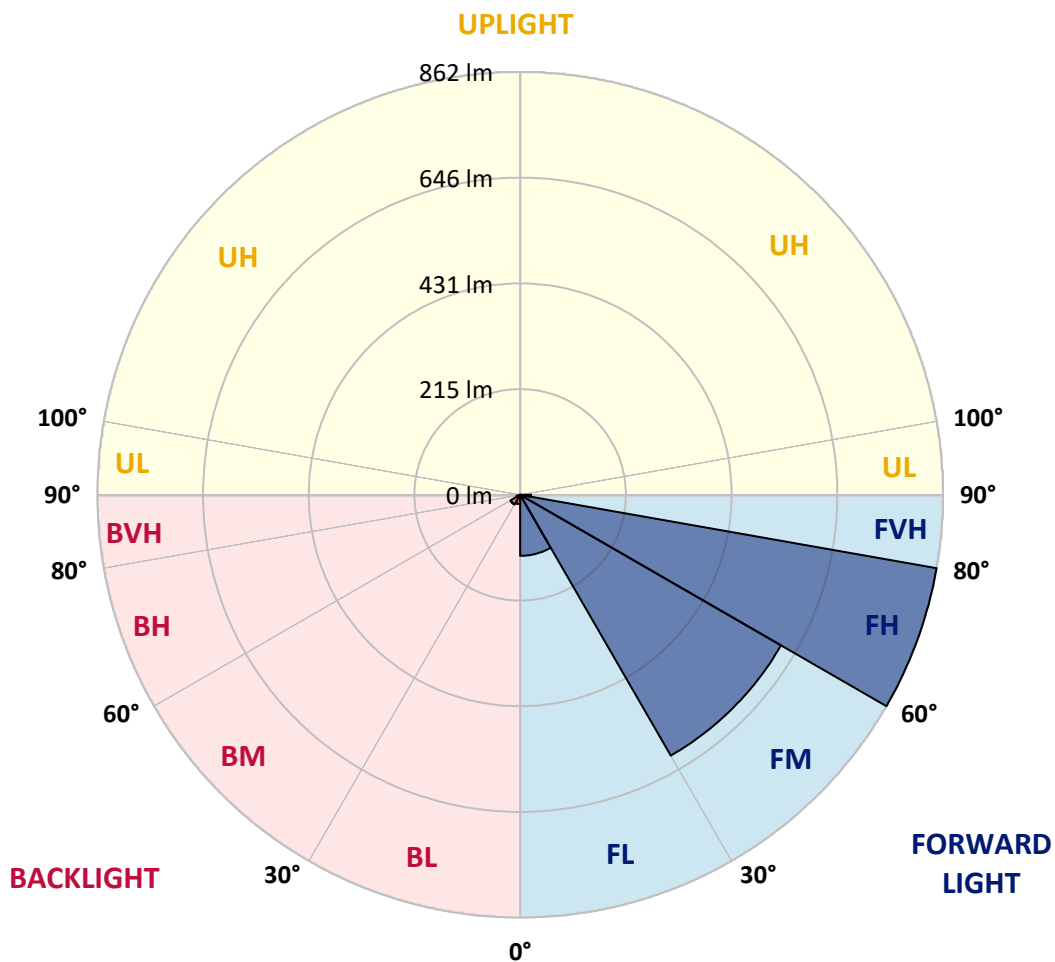
CATALOG NUMBER: VAL-F01-LED-E-U-GL4-HSS-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 124.4 | 7.4 | | | |
| FM | (30°-60°) | 613.8 | 36.7 | | | |
| FH | (60°-80°) | 861.7 | 51.5 | | | G1/1800 |
| FVH | (80°-90°) | 22.2 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 18.9 | 1.1 | B0/110 | | |
| BM | (30°-60°) | 22.7 | 1.4 | B0/220 | | |
| BH | (60°-80°) | 7.3 | 0.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.9 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 |
| 2.5° | 168.4 | 166.5 | 164.3 | 164.3 | 161.6 | 161.6 | 159.9 | 155.6 | 155.0 | 152.6 | 150.1 |
| 5° | 215.0 | 213.4 | 210.6 | 208.2 | 206.0 | 202.1 | 199.4 | 194.2 | 188.4 | 183.0 | 178.0 |
| 7.5° | 260.5 | 259.6 | 254.7 | 253.9 | 250.3 | 244.0 | 238.6 | 230.9 | 221.0 | 213.4 | 204.3 |
| 10° | 302.6 | 300.7 | 299.6 | 295.0 | 289.8 | 282.9 | 274.4 | 265.1 | 253.6 | 241.6 | 228.7 |
| 12.5° | 336.1 | 335.0 | 330.0 | 328.1 | 322.6 | 315.8 | 305.1 | 293.1 | 281.6 | 265.9 | 250.9 |
| 15° | 361.0 | 359.1 | 355.8 | 352.8 | 346.2 | 340.2 | 330.3 | 317.2 | 303.2 | 286.2 | 268.1 |
| 17.5° | 381.8 | 378.2 | 377.4 | 372.8 | 365.9 | 358.8 | 347.8 | 335.8 | 319.3 | 302.4 | 282.7 |
| 20° | 409.7 | 404.8 | 403.2 | 396.3 | 388.4 | 378.5 | 365.9 | 350.8 | 333.6 | 315.0 | 294.7 |
| 22.5° | 442.6 | 439.0 | 435.5 | 429.5 | 419.3 | 405.3 | 387.0 | 370.6 | 348.7 | 328.1 | 306.2 |
| 25° | 489.2 | 486.2 | 480.4 | 472.2 | 459.6 | 442.9 | 420.7 | 396.6 | 370.8 | 344.5 | 318.8 |
| 27.5° | 534.4 | 531.6 | 527.5 | 521.2 | 507.0 | 488.6 | 461.2 | 430.6 | 398.0 | 366.2 | 337.7 |
| 30° | 576.8 | 574.3 | 570.2 | 563.9 | 551.3 | 533.3 | 502.3 | 469.4 | 428.9 | 391.9 | 357.7 |
| 32.5° | 622.5 | 621.7 | 617.1 | 608.0 | 597.1 | 572.7 | 539.0 | 503.7 | 462.6 | 419.9 | 379.9 |
| 35° | 674.3 | 668.0 | 663.6 | 654.6 | 636.0 | 609.9 | 570.5 | 531.9 | 488.6 | 444.8 | 400.1 |
| 37.5° | 718.1 | 712.1 | 706.6 | 695.1 | 672.4 | 639.3 | 594.6 | 552.2 | 507.5 | 462.9 | 417.4 |
| 40° | 750.2 | 747.2 | 740.6 | 725.5 | 700.1 | 660.6 | 612.4 | 566.1 | 521.2 | 476.3 | 431.4 |
| 42.5° | 774.0 | 769.3 | 761.9 | 746.3 | 716.2 | 671.3 | 619.5 | 571.9 | 527.5 | 484.5 | 440.4 |
| 45° | 782.8 | 778.9 | 772.1 | 755.1 | 722.5 | 674.3 | 619.2 | 570.2 | 527.8 | 487.0 | 446.4 |
| 47.5° | 777.6 | 773.7 | 767.7 | 751.8 | 719.8 | 670.7 | 614.3 | 565.6 | 525.0 | 487.8 | 451.9 |
| 50° | 760.3 | 758.1 | 753.5 | 740.0 | 711.3 | 663.9 | 609.9 | 563.1 | 524.5 | 491.9 | 459.6 |
| 52.5° | 758.7 | 757.3 | 751.5 | 738.1 | 708.8 | 661.7 | 609.4 | 564.5 | 529.2 | 497.1 | 465.1 |
| 55° | 927.1 | 907.7 | 864.1 | 827.1 | 766.3 | 694.0 | 637.1 | 586.7 | 548.9 | 517.6 | 495.2 |
| 57.5° | 1317.7 | 1288.6 | 1231.4 | 1161.0 | 1021.3 | 884.1 | 774.3 | 694.8 | 655.7 | 641.4 | 649.9 |
| 60° | 1500.6 | 1495.4 | 1486.4 | 1453.0 | 1381.5 | 1263.4 | 1132.0 | 989.8 | 932.9 | 927.9 | 945.2 |
| 62.5° | 1587.4 | 1584.1 | 1586.9 | 1582.8 | 1560.6 | 1526.1 | 1488.3 | 1426.9 | 1370.5 | 1334.1 | 1256.9 |
| 65° | 1627.4 | 1629.6 | 1645.2 | 1657.6 | 1660.3 | 1669.3 | 1697.0 | 1773.4 | 1829.3 | 1735.3 | 1520.9 |
| 67.5° | 1525.8 | 1538.7 | 1574.6 | 1619.5 | 1672.1 | 1723.0 | 1805.2 | 1966.2 | 2081.0 | 1970.6 | 1666.0 |
| 69° | 1263.2 | 1269.5 | 1357.1 | 1441.7 | 1570.2 | 1660.0 | 1779.2 | 1990.3 | 2119.3 | 1994.7 | 1654.5 |
| 70° | 994.5 | 1000.2 | 1094.2 | 1209.2 | 1426.4 | 1542.0 | 1697.8 | 1949.5 | 2083.5 | 1962.7 | 1595.4 |
| 72.5° | 448.6 | 440.4 | 473.5 | 535.2 | 771.3 | 954.8 | 1227.3 | 1579.5 | 1718.9 | 1572.4 | 1193.6 |
| 75° | 313.3 | 309.8 | 313.3 | 313.6 | 350.3 | 451.9 | 570.2 | 856.2 | 1058.8 | 913.7 | 570.2 |
| 77.5° | 242.7 | 240.2 | 237.7 | 235.0 | 239.4 | 268.1 | 279.6 | 303.7 | 394.4 | 373.0 | 217.5 |
| 80° | 192.0 | 189.8 | 195.8 | 193.9 | 193.9 | 197.2 | 195.0 | 186.0 | 169.0 | 156.7 | 140.2 |
| 82.5° | 89.3 | 89.8 | 89.8 | 97.5 | 117.5 | 137.2 | 143.5 | 134.5 | 119.4 | 101.6 | 81.9 |
| 85° | 8.5 | 9.6 | 16.2 | 24.9 | 49.6 | 55.9 | 56.1 | 46.6 | 46.6 | 36.7 | 29.6 |
| 87.5° | 0.0 | 0.3 | 0.3 | 0.3 | 2.5 | 6.8 | 5.7 | 1.6 | 0.8 | 0.8 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: VAL-F01-LED-E-U-GL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 |
| 2.5° | 145.7 | 144.9 | 141.6 | 138.3 | 135.3 | 132.0 | 129.0 | 126.0 | 122.7 | 120.2 | 117.2 |
| 5° | 170.4 | 164.3 | 157.5 | 150.9 | 144.3 | 137.5 | 130.4 | 124.1 | 117.5 | 111.5 | 105.7 |
| 7.5° | 195.3 | 183.5 | 174.2 | 162.4 | 151.7 | 141.1 | 131.2 | 121.1 | 111.7 | 103.0 | 94.8 |
| 10° | 216.4 | 202.1 | 187.6 | 172.5 | 157.2 | 143.0 | 129.3 | 117.2 | 104.9 | 94.2 | 84.1 |
| 12.5° | 233.6 | 215.5 | 197.7 | 178.9 | 161.6 | 143.5 | 126.5 | 112.0 | 97.5 | 85.5 | 75.1 |
| 15° | 249.2 | 228.4 | 207.1 | 185.2 | 163.2 | 142.7 | 123.8 | 105.7 | 90.9 | 77.2 | 65.5 |
| 17.5° | 261.8 | 238.0 | 213.9 | 189.3 | 165.7 | 141.6 | 120.2 | 101.3 | 84.1 | 69.8 | 58.3 |
| 20° | 272.8 | 247.9 | 221.8 | 194.2 | 167.3 | 141.3 | 117.2 | 95.9 | 78.0 | 63.0 | 51.8 |
| 22.5° | 282.9 | 258.0 | 230.1 | 200.5 | 169.8 | 141.1 | 114.5 | 91.8 | 72.8 | 57.8 | 46.6 |
| 25° | 294.4 | 268.1 | 238.8 | 207.1 | 174.2 | 142.1 | 112.8 | 88.5 | 68.2 | 52.9 | 42.5 |
| 27.5° | 307.3 | 279.6 | 249.2 | 215.3 | 179.9 | 144.3 | 112.3 | 84.9 | 64.1 | 48.2 | 39.2 |
| 30° | 325.4 | 293.3 | 259.6 | 223.5 | 185.2 | 146.8 | 111.7 | 82.7 | 60.0 | 44.6 | 35.9 |
| 32.5° | 341.3 | 306.7 | 271.1 | 232.0 | 190.9 | 149.3 | 111.5 | 79.7 | 56.1 | 41.1 | 33.4 |
| 35° | 358.0 | 319.1 | 281.0 | 240.2 | 195.8 | 152.0 | 111.2 | 77.5 | 52.6 | 37.5 | 31.0 |
| 37.5° | 372.5 | 329.5 | 288.7 | 247.3 | 201.3 | 154.5 | 111.5 | 75.6 | 49.3 | 34.5 | 28.7 |
| 40° | 384.8 | 340.2 | 297.2 | 253.9 | 207.1 | 158.3 | 111.7 | 73.7 | 46.0 | 31.8 | 26.8 |
| 42.5° | 395.8 | 350.3 | 306.2 | 261.3 | 213.6 | 162.7 | 113.4 | 72.0 | 43.3 | 29.3 | 24.9 |
| 45° | 404.3 | 359.6 | 316.1 | 271.7 | 224.3 | 169.8 | 116.4 | 70.9 | 40.5 | 27.1 | 23.3 |
| 47.5° | 413.0 | 373.3 | 332.8 | 288.1 | 239.9 | 181.0 | 121.6 | 70.7 | 38.3 | 25.5 | 21.9 |
| 50° | 425.1 | 387.0 | 347.6 | 304.8 | 254.2 | 192.5 | 127.9 | 70.9 | 35.6 | 23.8 | 20.5 |
| 52.5° | 433.8 | 401.0 | 366.7 | 333.9 | 288.1 | 227.6 | 152.3 | 75.9 | 34.2 | 22.5 | 18.9 |
| 55° | 485.6 | 479.9 | 480.7 | 486.2 | 450.8 | 387.3 | 254.7 | 109.6 | 40.3 | 25.5 | 18.6 |
| 57.5° | 684.7 | 705.0 | 716.8 | 716.5 | 658.1 | 545.9 | 342.1 | 140.8 | 44.9 | 29.6 | 22.2 |
| 60° | 946.5 | 931.2 | 909.6 | 856.2 | 778.6 | 623.1 | 382.6 | 151.5 | 38.9 | 23.5 | 20.3 |
| 62.5° | 1178.0 | 1088.2 | 1008.4 | 921.9 | 820.3 | 649.9 | 390.8 | 150.6 | 34.0 | 17.8 | 14.2 |
| 65° | 1322.3 | 1160.7 | 1032.0 | 923.5 | 803.9 | 627.5 | 369.7 | 138.3 | 28.7 | 14.5 | 11.8 |
| 67.5° | 1356.8 | 1121.6 | 939.4 | 801.1 | 671.6 | 488.3 | 271.4 | 104.1 | 22.5 | 12.0 | 10.4 |
| 69° | 1281.5 | 996.9 | 778.4 | 621.4 | 488.6 | 324.0 | 167.9 | 65.7 | 17.2 | 11.0 | 9.6 |
| 70° | 1178.8 | 867.1 | 634.0 | 498.7 | 361.8 | 227.6 | 117.5 | 46.3 | 14.0 | 10.1 | 8.8 |
| 72.5° | 758.4 | 455.5 | 311.7 | 216.9 | 149.3 | 90.7 | 46.0 | 20.8 | 10.7 | 8.5 | 7.1 |
| 75° | 294.2 | 168.4 | 122.1 | 92.8 | 72.6 | 50.4 | 27.9 | 13.4 | 9.0 | 7.1 | 5.5 |
| 77.5° | 144.9 | 110.9 | 90.7 | 62.2 | 36.2 | 22.5 | 15.1 | 10.4 | 7.4 | 5.2 | 3.6 |
| 80° | 114.5 | 76.1 | 45.5 | 28.2 | 21.4 | 16.2 | 11.5 | 8.5 | 5.5 | 3.3 | 2.5 |
| 82.5° | 58.6 | 32.0 | 23.5 | 19.2 | 15.9 | 12.6 | 9.3 | 6.0 | 3.6 | 2.2 | 1.9 |
| 85° | 18.3 | 13.4 | 12.0 | 11.8 | 11.0 | 9.0 | 6.6 | 3.8 | 2.2 | 1.4 | 1.4 |
| 87.5° | 1.4 | 1.9 | 2.5 | 1.9 | 2.2 | 1.9 | 2.5 | 1.6 | 1.1 | 1.1 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: VAL-F01-LED-E-U-GL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 | 126.3 |
| 2.5° | 115.0 | 111.7 | 108.7 | 106.8 | 103.3 | 101.9 | 100.5 | 100.0 | 97.5 | 98.1 | 95.9 |
| 5° | 100.5 | 94.8 | 90.4 | 86.0 | 81.9 | 78.9 | 76.4 | 73.4 | 70.9 | 69.8 | 67.6 |
| 7.5° | 87.4 | 80.0 | 74.2 | 69.6 | 64.6 | 60.8 | 57.5 | 55.3 | 53.1 | 50.9 | 49.8 |
| 10° | 75.9 | 67.9 | 61.3 | 56.7 | 52.0 | 48.8 | 46.3 | 44.6 | 43.3 | 42.5 | 42.2 |
| 12.5° | 65.2 | 57.5 | 51.5 | 47.4 | 43.8 | 42.2 | 41.1 | 40.3 | 40.0 | 39.7 | 39.7 |
| 15° | 57.0 | 49.3 | 44.6 | 41.6 | 40.0 | 39.2 | 38.9 | 38.3 | 37.8 | 37.5 | 37.5 |
| 17.5° | 49.3 | 43.5 | 40.3 | 38.6 | 37.8 | 37.3 | 36.7 | 36.2 | 35.6 | 35.3 | 35.3 |
| 20° | 44.1 | 39.4 | 37.8 | 36.7 | 35.9 | 35.3 | 34.5 | 34.0 | 33.7 | 33.4 | 33.1 |
| 22.5° | 40.0 | 37.0 | 35.9 | 35.1 | 34.0 | 33.1 | 32.6 | 32.0 | 31.5 | 31.2 | 31.0 |
| 25° | 37.0 | 35.1 | 34.2 | 33.1 | 32.0 | 31.2 | 30.4 | 29.6 | 29.0 | 28.7 | 28.2 |
| 27.5° | 34.8 | 33.4 | 32.3 | 31.0 | 29.9 | 29.0 | 28.2 | 27.4 | 26.8 | 26.3 | 26.0 |
| 30° | 32.9 | 31.5 | 30.1 | 29.0 | 27.7 | 26.8 | 25.8 | 24.9 | 24.6 | 24.1 | 23.5 |
| 32.5° | 31.0 | 29.6 | 28.2 | 26.8 | 25.5 | 24.4 | 23.8 | 22.7 | 22.2 | 21.9 | 21.4 |
| 35° | 28.7 | 27.4 | 25.8 | 24.6 | 23.3 | 22.2 | 21.4 | 20.5 | 20.0 | 19.4 | 19.2 |
| 37.5° | 26.8 | 25.2 | 23.5 | 22.2 | 21.1 | 20.0 | 19.2 | 18.3 | 17.8 | 17.2 | 17.0 |
| 40° | 24.6 | 23.0 | 21.4 | 20.0 | 18.9 | 18.1 | 17.2 | 16.4 | 15.9 | 15.6 | 15.6 |
| 42.5° | 22.7 | 20.8 | 19.2 | 18.1 | 17.2 | 16.2 | 15.3 | 14.5 | 14.2 | 14.0 | 14.2 |
| 45° | 20.8 | 18.9 | 17.5 | 16.4 | 15.6 | 14.5 | 13.7 | 13.1 | 12.9 | 13.1 | 13.4 |
| 47.5° | 19.2 | 17.2 | 15.9 | 15.1 | 14.2 | 13.4 | 12.6 | 12.0 | 12.0 | 12.6 | 13.1 |
| 50° | 17.5 | 15.6 | 14.5 | 14.0 | 13.1 | 12.3 | 11.2 | 11.0 | 11.2 | 11.8 | 12.3 |
| 52.5° | 15.9 | 13.7 | 12.9 | 12.6 | 11.8 | 11.0 | 10.1 | 9.9 | 10.1 | 10.7 | 10.4 |
| 55° | 14.2 | 12.0 | 11.8 | 11.5 | 10.7 | 9.6 | 8.8 | 8.8 | 8.8 | 8.5 | 7.9 |
| 57.5° | 13.7 | 10.7 | 10.4 | 10.1 | 9.3 | 8.2 | 7.7 | 7.1 | 6.8 | 6.0 | 5.7 |
| 60° | 14.2 | 9.6 | 9.6 | 9.0 | 8.2 | 7.1 | 6.3 | 5.5 | 4.9 | 4.4 | 4.4 |
| 62.5° | 11.5 | 8.8 | 8.5 | 7.9 | 6.8 | 5.7 | 4.9 | 4.1 | 3.8 | 3.6 | 3.6 |
| 65° | 9.3 | 7.9 | 7.4 | 6.6 | 5.7 | 4.7 | 3.8 | 3.3 | 3.0 | 3.0 | 3.3 |
| 67.5° | 8.5 | 7.1 | 6.3 | 5.5 | 4.7 | 3.6 | 3.0 | 2.7 | 2.7 | 3.0 | 3.0 |
| 69° | 7.9 | 6.6 | 5.7 | 4.9 | 4.1 | 3.3 | 2.7 | 2.7 | 2.7 | 2.7 | 3.0 |
| 70° | 7.4 | 6.3 | 5.5 | 4.7 | 3.6 | 2.7 | 2.5 | 2.5 | 2.7 | 2.7 | 3.0 |
| 72.5° | 5.7 | 4.9 | 4.7 | 3.8 | 2.7 | 2.5 | 2.2 | 2.5 | 2.5 | 2.7 | 2.7 |
| 75° | 4.4 | 3.6 | 3.6 | 3.0 | 2.2 | 1.9 | 1.9 | 2.2 | 2.2 | 2.5 | 2.5 |
| 77.5° | 3.0 | 2.5 | 2.5 | 2.2 | 1.9 | 1.6 | 1.6 | 1.9 | 2.2 | 2.2 | 2.5 |
| 80° | 2.2 | 1.9 | 1.6 | 1.9 | 1.6 | 1.4 | 1.6 | 1.9 | 1.9 | 2.2 | 2.2 |
| 82.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.4 | 1.4 | 1.6 | 1.6 | 1.9 | 2.2 | 2.2 |
| 85° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 | 1.6 | 1.9 | 1.9 |
| 87.5° | 0.8 | 0.8 | 0.8 | 1.1 | 1.1 | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 | 1.6 |
| 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: P177525

CATALOG NUMBER: VAL-F01-LED-E-U-GL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 126.3 | 126.3 | 126.3 | 126.3 |
| 2.5° | 95.3 | 95.0 | 93.9 | 94.2 |
| 5° | 66.8 | 65.2 | 66.3 | 66.0 |
| 7.5° | 49.0 | 48.8 | 48.5 | 49.0 |
| 10° | 41.9 | 41.9 | 41.6 | 41.9 |
| 12.5° | 39.4 | 39.4 | 39.4 | 39.4 |
| 15° | 37.5 | 37.5 | 37.3 | 37.3 |
| 17.5° | 35.3 | 35.3 | 35.3 | 35.1 |
| 20° | 33.1 | 32.9 | 32.9 | 32.9 |
| 22.5° | 30.7 | 30.4 | 30.4 | 30.4 |
| 25° | 28.2 | 27.9 | 27.9 | 27.9 |
| 27.5° | 25.8 | 25.5 | 25.2 | 25.2 |
| 30° | 23.3 | 23.0 | 22.7 | 22.7 |
| 32.5° | 20.8 | 20.5 | 20.3 | 20.3 |
| 35° | 18.6 | 18.6 | 18.3 | 18.1 |
| 37.5° | 16.7 | 16.7 | 16.7 | 16.7 |
| 40° | 15.3 | 15.6 | 15.6 | 15.6 |
| 42.5° | 14.5 | 14.8 | 15.1 | 15.3 |
| 45° | 14.0 | 14.5 | 14.8 | 14.8 |
| 47.5° | 13.7 | 14.0 | 14.2 | 14.2 |
| 50° | 12.6 | 12.3 | 12.3 | 12.3 |
| 52.5° | 10.1 | 9.6 | 9.3 | 9.0 |
| 55° | 7.4 | 7.1 | 6.6 | 6.6 |
| 57.5° | 5.2 | 5.2 | 4.9 | 4.9 |
| 60° | 4.1 | 4.1 | 3.8 | 4.1 |
| 62.5° | 3.6 | 3.6 | 3.6 | 3.6 |
| 65° | 3.3 | 3.3 | 3.3 | 3.3 |
| 67.5° | 3.3 | 3.3 | 3.3 | 3.3 |
| 69° | 3.0 | 3.0 | 3.0 | 3.0 |
| 70° | 3.0 | 3.0 | 3.0 | 3.0 |
| 72.5° | 2.7 | 2.7 | 2.7 | 2.7 |
| 75° | 2.5 | 2.7 | 2.7 | 2.7 |
| 77.5° | 2.5 | 2.5 | 2.5 | 2.5 |
| 80° | 2.2 | 2.2 | 2.5 | 2.5 |
| 82.5° | 2.2 | 2.2 | 2.2 | 2.2 |
| 85° | 1.9 | 1.9 | 2.2 | 2.2 |
| 87.5° | 1.6 | 1.6 | 1.9 | 1.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)