

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: P163939

Luminaire Tested: **OVF-E02-LED-E-U-SL4-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163939
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: OVF-E02-LED-E-U-SL4-HSS-7060
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4050.5 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

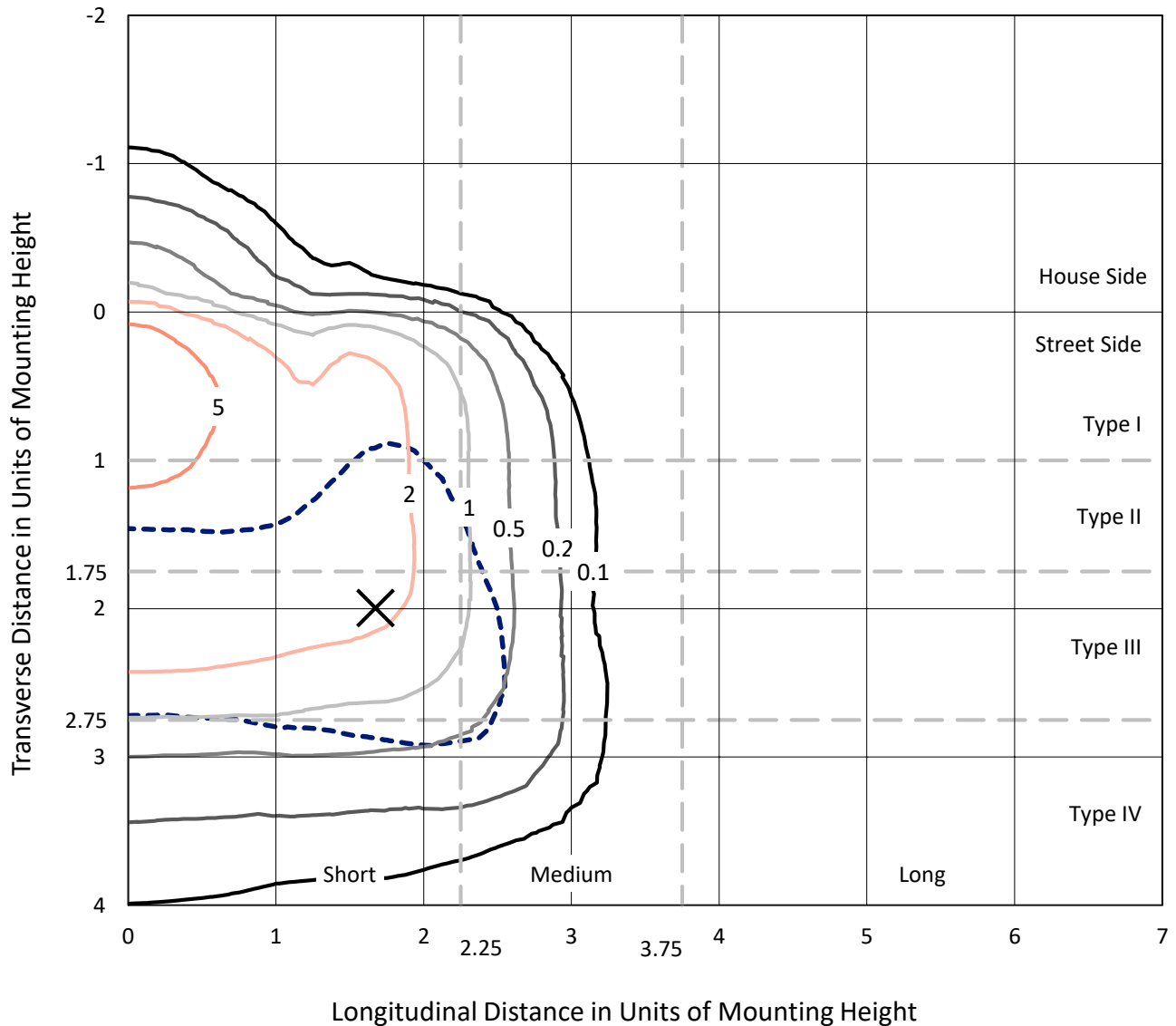
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

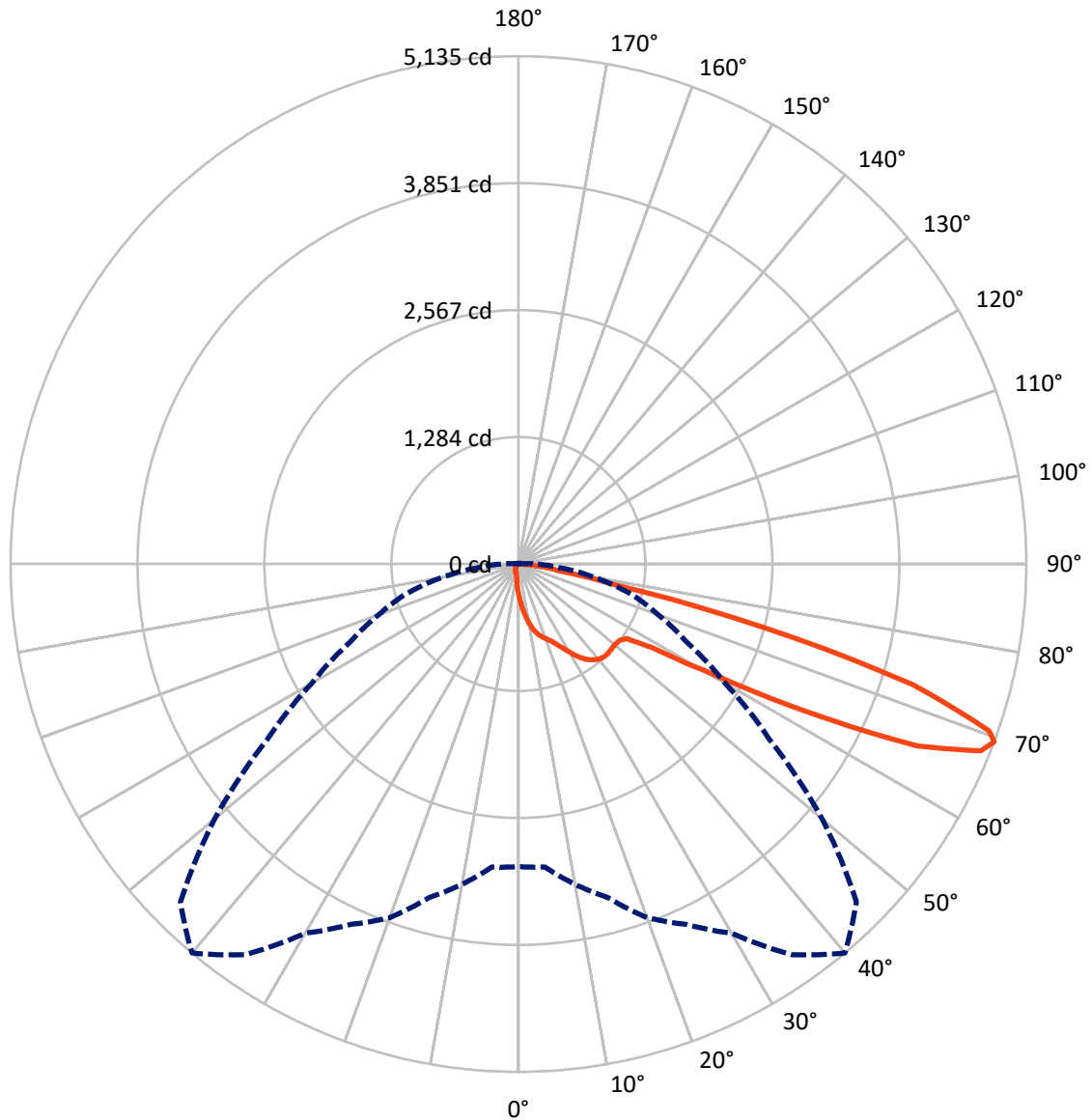
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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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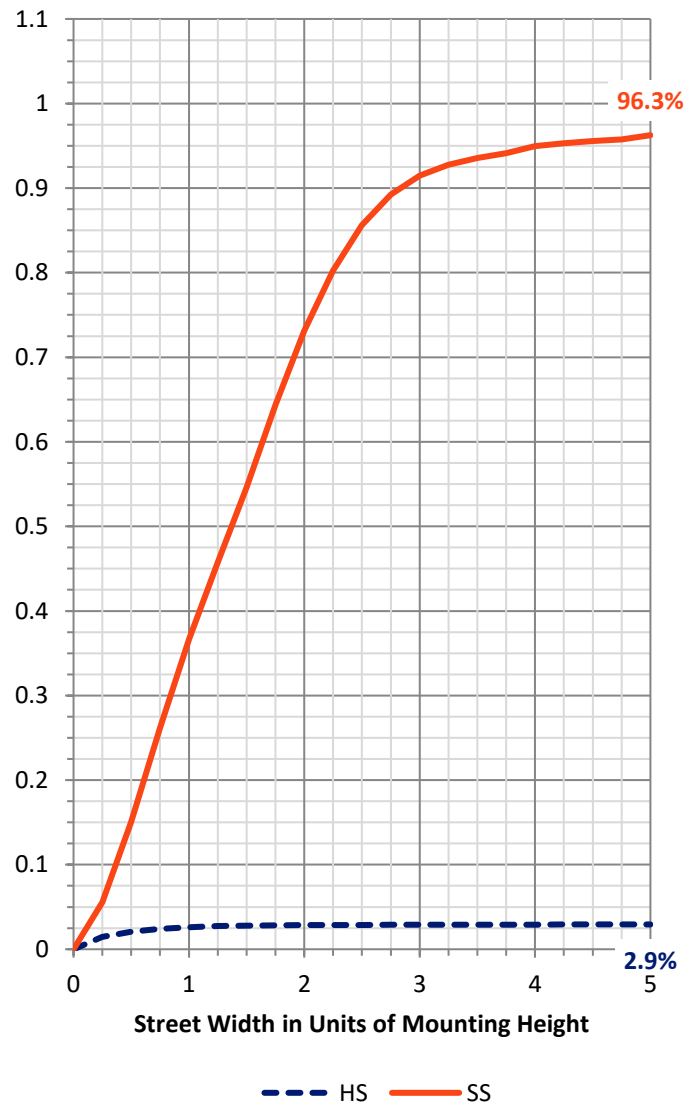
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 120.6 | 0.0 | 120.6 |
| | % Fixture | 3.0 | 0.0 | 3.0 |
| Street Side | Lumens | 3929.9 | 0.0 | 3929.9 |
| | % Fixture | 97.0 | 0.0 | 97.0 |
| Total | Lumens | 4050.5 | 0.0 | 4050.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.4 | 0.8 |
| 10°-20° | 108.4 | 2.7 |
| 20°-30° | 207.5 | 5.1 |
| 30°-40° | 345.0 | 8.5 |
| 40°-50° | 466.9 | 11.5 |
| 50°-60° | 730.2 | 18.0 |
| 60°-70° | 1501.2 | 37.1 |
| 70°-80° | 604.1 | 14.9 |
| 80°-90° | 55.9 | 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° | 4050.5 | 100.0 |
| 0°-180° | 4050.5 | 100.0 |



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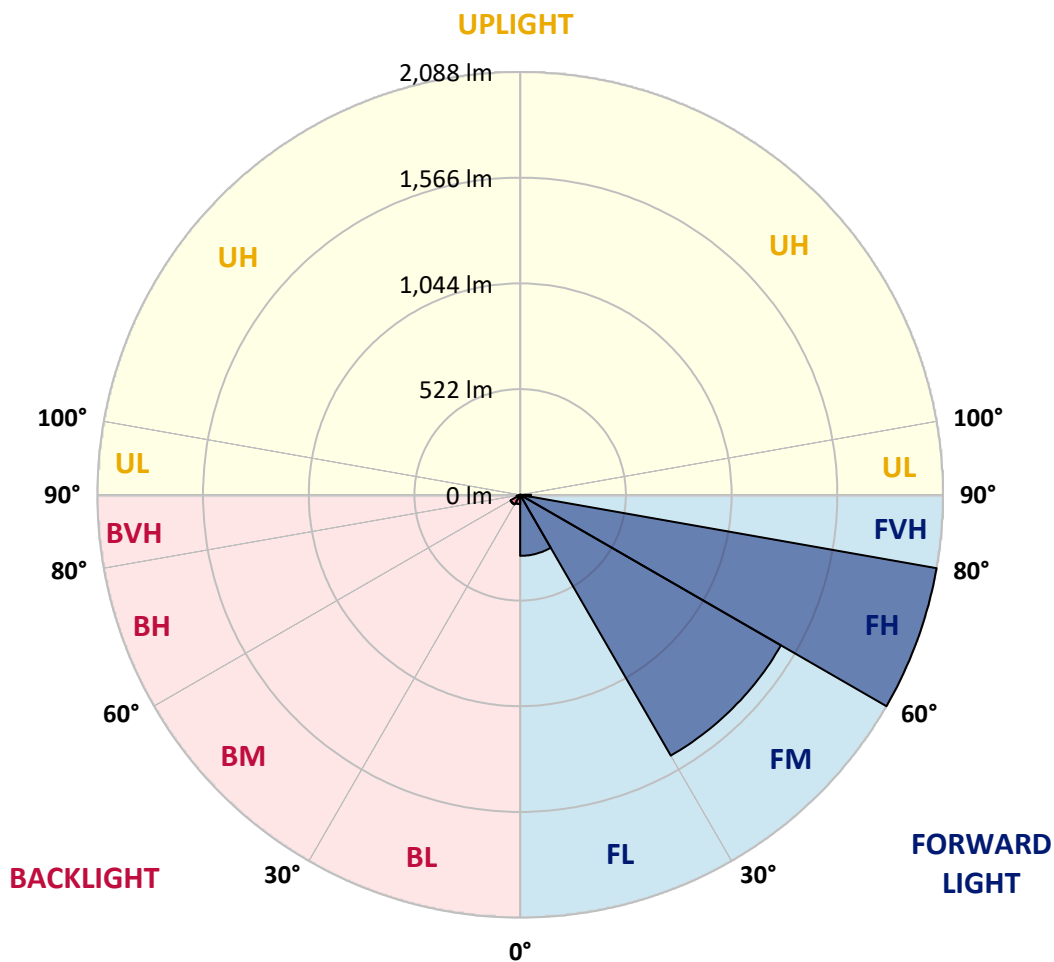
CATALOG NUMBER: OVF-E02-LED-E-U-SL4-HSS-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 301.4 | 7.4 | | | |
| FM (30°-60°) | 1487.0 | 36.7 | | | |
| FH (60°-80°) | 2087.7 | 51.5 | | | G2/5000 |
| FVH (80°-90°) | 53.8 | 1.3 | | | G1/100 |
| BL (0°-30°) | 45.9 | 1.1 | B0/110 | | |
| BM (30°-60°) | 55.1 | 1.4 | B0/220 | | |
| BH (60°-80°) | 17.6 | 0.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.1 | 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-G2

Type IV Short





REPORT NUMBER: P163939

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 |
| 2.5° | 408.1 | 403.4 | 398.1 | 398.1 | 391.5 | 391.5 | 387.5 | 376.9 | 375.6 | 369.6 | 363.6 |
| 5° | 520.9 | 516.9 | 510.3 | 504.3 | 499.0 | 489.7 | 483.0 | 470.4 | 456.5 | 443.2 | 431.3 |
| 7.5° | 631.0 | 629.0 | 617.1 | 615.1 | 606.5 | 591.2 | 577.9 | 559.4 | 535.5 | 516.9 | 495.0 |
| 10° | 733.2 | 728.6 | 725.9 | 714.6 | 702.0 | 685.4 | 664.9 | 642.3 | 614.4 | 585.2 | 554.1 |
| 12.5° | 814.2 | 811.5 | 799.6 | 794.9 | 781.6 | 765.1 | 739.2 | 710.0 | 682.1 | 644.3 | 607.8 |
| 15° | 874.5 | 869.9 | 861.9 | 854.6 | 838.7 | 824.1 | 800.2 | 768.4 | 734.5 | 693.4 | 649.6 |
| 17.5° | 925.0 | 916.4 | 914.3 | 903.1 | 886.5 | 869.2 | 842.7 | 813.5 | 773.7 | 732.6 | 684.8 |
| 20° | 992.7 | 980.7 | 976.7 | 960.1 | 940.9 | 917.0 | 886.5 | 850.0 | 808.2 | 763.1 | 714.0 |
| 22.5° | 1072.3 | 1063.7 | 1055.0 | 1040.4 | 1015.9 | 982.0 | 937.6 | 897.8 | 844.7 | 794.9 | 741.8 |
| 25° | 1185.1 | 1177.8 | 1163.8 | 1143.9 | 1113.4 | 1072.9 | 1019.2 | 960.8 | 898.4 | 834.7 | 772.4 |
| 27.5° | 1294.6 | 1287.9 | 1278.0 | 1262.7 | 1228.2 | 1183.8 | 1117.4 | 1043.1 | 964.1 | 887.2 | 818.1 |
| 30° | 1397.4 | 1391.4 | 1381.5 | 1366.2 | 1335.7 | 1291.9 | 1216.9 | 1137.3 | 1039.1 | 949.5 | 866.6 |
| 32.5° | 1508.2 | 1506.2 | 1495.0 | 1473.1 | 1446.5 | 1387.5 | 1305.9 | 1220.2 | 1120.7 | 1017.2 | 920.3 |
| 35° | 1633.6 | 1618.4 | 1607.7 | 1585.9 | 1540.8 | 1477.7 | 1382.2 | 1288.6 | 1183.8 | 1077.6 | 969.4 |
| 37.5° | 1739.8 | 1725.2 | 1712.0 | 1684.1 | 1629.0 | 1548.7 | 1440.5 | 1337.7 | 1229.6 | 1121.4 | 1011.2 |
| 40° | 1817.4 | 1810.1 | 1794.2 | 1757.7 | 1696.0 | 1600.5 | 1483.7 | 1371.5 | 1262.7 | 1153.9 | 1045.1 |
| 42.5° | 1875.2 | 1863.9 | 1846.0 | 1808.2 | 1735.1 | 1626.3 | 1500.9 | 1385.5 | 1278.0 | 1173.8 | 1067.0 |
| 45° | 1896.4 | 1887.1 | 1870.5 | 1829.4 | 1750.4 | 1633.6 | 1500.2 | 1381.5 | 1278.7 | 1179.8 | 1081.6 |
| 47.5° | 1883.8 | 1874.5 | 1859.9 | 1821.4 | 1743.8 | 1625.0 | 1488.3 | 1370.2 | 1272.0 | 1181.8 | 1094.9 |
| 50° | 1842.0 | 1836.7 | 1825.4 | 1792.9 | 1723.2 | 1608.4 | 1477.7 | 1364.2 | 1270.7 | 1191.7 | 1113.4 |
| 52.5° | 1838.0 | 1834.7 | 1820.8 | 1788.3 | 1717.2 | 1603.1 | 1476.4 | 1367.6 | 1282.0 | 1204.3 | 1126.7 |
| 55° | 2246.1 | 2199.0 | 2093.5 | 2003.9 | 1856.6 | 1681.4 | 1543.4 | 1421.3 | 1329.8 | 1254.1 | 1199.7 |
| 57.5° | 3192.3 | 3121.9 | 2983.3 | 2812.8 | 2474.4 | 2141.9 | 1875.8 | 1683.4 | 1588.5 | 1554.0 | 1574.6 |
| 60° | 3635.5 | 3622.9 | 3601.1 | 3520.1 | 3346.9 | 3060.9 | 2742.4 | 2398.0 | 2260.0 | 2248.1 | 2289.9 |
| 62.5° | 3845.9 | 3837.9 | 3844.6 | 3834.6 | 3780.9 | 3697.3 | 3605.7 | 3457.0 | 3320.4 | 3232.1 | 3045.0 |
| 65° | 3942.7 | 3948.1 | 3985.9 | 4015.8 | 4022.4 | 4044.3 | 4111.3 | 4296.4 | 4431.8 | 4204.2 | 3684.7 |
| 67.5° | 3696.6 | 3727.8 | 3814.7 | 3923.5 | 4050.9 | 4174.3 | 4373.4 | 4763.6 | 5041.6 | 4774.2 | 4036.3 |
| 69° | 3060.3 | 3075.5 | 3287.8 | 3492.9 | 3804.1 | 4021.7 | 4310.4 | 4822.0 | 5134.5 | 4832.6 | 4008.5 |
| 70° | 2409.3 | 2423.3 | 2650.8 | 2929.5 | 3455.7 | 3735.7 | 4113.3 | 4723.1 | 5047.6 | 4754.9 | 3865.1 |
| 72.5° | 1086.9 | 1067.0 | 1147.3 | 1296.5 | 1868.5 | 2313.1 | 2973.3 | 3826.6 | 4164.4 | 3809.4 | 2891.7 |
| 75° | 759.1 | 750.5 | 759.1 | 759.8 | 848.7 | 1094.9 | 1381.5 | 2074.2 | 2565.3 | 2213.6 | 1381.5 |
| 77.5° | 587.9 | 581.9 | 576.0 | 569.3 | 580.0 | 649.6 | 677.5 | 735.9 | 955.5 | 903.8 | 526.8 |
| 80° | 465.2 | 459.8 | 474.4 | 469.8 | 469.8 | 477.8 | 472.5 | 450.5 | 409.4 | 379.5 | 339.7 |
| 82.5° | 216.3 | 217.7 | 217.7 | 236.2 | 284.6 | 332.4 | 347.7 | 325.8 | 289.3 | 246.2 | 198.4 |
| 85° | 20.6 | 23.2 | 39.2 | 60.4 | 120.1 | 135.4 | 136.0 | 112.8 | 112.8 | 88.9 | 71.7 |
| 87.5° | 0.0 | 0.7 | 0.7 | 0.7 | 6.0 | 16.6 | 13.9 | 4.0 | 2.0 | 2.0 | 3.3 |
| 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: OVF-E02-LED-E-U-SL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 |
| 2.5° | 353.0 | 351.0 | 343.0 | 335.1 | 327.8 | 319.8 | 312.5 | 305.2 | 297.3 | 291.3 | 284.0 |
| 5° | 412.7 | 398.1 | 381.5 | 365.6 | 349.7 | 333.1 | 315.8 | 300.6 | 284.6 | 270.1 | 256.1 |
| 7.5° | 473.1 | 444.6 | 422.0 | 393.5 | 367.6 | 341.7 | 317.8 | 293.3 | 270.7 | 249.5 | 229.6 |
| 10° | 524.2 | 489.7 | 454.5 | 418.0 | 380.9 | 346.4 | 313.2 | 284.0 | 254.1 | 228.2 | 203.7 |
| 12.5° | 566.0 | 522.2 | 479.1 | 433.3 | 391.5 | 347.7 | 306.6 | 271.4 | 236.2 | 207.0 | 181.8 |
| 15° | 603.8 | 553.4 | 501.6 | 448.6 | 395.5 | 345.7 | 299.9 | 256.1 | 220.3 | 187.1 | 158.6 |
| 17.5° | 634.3 | 576.6 | 518.2 | 458.5 | 401.5 | 343.0 | 291.3 | 245.5 | 203.7 | 169.2 | 141.3 |
| 20° | 660.9 | 600.5 | 537.5 | 470.4 | 405.4 | 342.4 | 284.0 | 232.2 | 189.1 | 152.6 | 125.4 |
| 22.5° | 685.4 | 625.1 | 557.4 | 485.7 | 411.4 | 341.7 | 277.4 | 222.3 | 176.5 | 140.0 | 112.8 |
| 25° | 713.3 | 649.6 | 578.6 | 501.6 | 422.0 | 344.4 | 273.4 | 214.3 | 165.2 | 128.1 | 102.9 |
| 27.5° | 744.5 | 677.5 | 603.8 | 521.5 | 435.9 | 349.7 | 272.0 | 205.7 | 155.3 | 116.8 | 94.9 |
| 30° | 788.3 | 710.6 | 629.0 | 541.5 | 448.6 | 355.6 | 270.7 | 200.4 | 145.3 | 108.2 | 86.9 |
| 32.5° | 826.8 | 743.1 | 656.9 | 562.0 | 462.5 | 361.6 | 270.1 | 193.1 | 136.0 | 99.5 | 80.9 |
| 35° | 867.3 | 773.0 | 680.8 | 581.9 | 474.4 | 368.2 | 269.4 | 187.8 | 127.4 | 90.9 | 75.0 |
| 37.5° | 902.4 | 798.2 | 699.4 | 599.2 | 487.7 | 374.2 | 270.1 | 183.1 | 119.4 | 83.6 | 69.7 |
| 40° | 932.3 | 824.1 | 720.0 | 615.1 | 501.6 | 383.5 | 270.7 | 178.5 | 111.5 | 77.0 | 65.0 |
| 42.5° | 958.8 | 848.7 | 741.8 | 633.0 | 517.6 | 394.1 | 274.7 | 174.5 | 104.8 | 71.0 | 60.4 |
| 45° | 979.4 | 871.2 | 765.7 | 658.2 | 543.4 | 411.4 | 282.0 | 171.9 | 98.2 | 65.7 | 56.4 |
| 47.5° | 1000.6 | 904.4 | 806.2 | 698.0 | 581.3 | 438.6 | 294.6 | 171.2 | 92.9 | 61.7 | 53.1 |
| 50° | 1029.8 | 937.6 | 842.0 | 738.5 | 615.8 | 466.5 | 309.9 | 171.9 | 86.3 | 57.7 | 49.7 |
| 52.5° | 1051.1 | 971.4 | 888.5 | 808.9 | 698.0 | 551.4 | 368.9 | 183.8 | 83.0 | 54.4 | 45.8 |
| 55° | 1176.5 | 1162.5 | 1164.5 | 1177.8 | 1092.2 | 938.2 | 617.1 | 265.4 | 97.5 | 61.7 | 45.1 |
| 57.5° | 1658.8 | 1708.0 | 1736.5 | 1735.8 | 1594.5 | 1322.4 | 828.8 | 341.1 | 108.8 | 71.7 | 53.7 |
| 60° | 2293.2 | 2256.0 | 2203.6 | 2074.2 | 1886.4 | 1509.6 | 927.0 | 366.9 | 94.2 | 57.1 | 49.1 |
| 62.5° | 2853.9 | 2636.3 | 2443.2 | 2233.5 | 1987.3 | 1574.6 | 946.9 | 365.0 | 82.3 | 43.1 | 34.5 |
| 65° | 3203.6 | 2812.1 | 2500.2 | 2237.4 | 1947.5 | 1520.2 | 895.8 | 335.1 | 69.7 | 35.2 | 28.5 |
| 67.5° | 3287.2 | 2717.2 | 2275.9 | 1940.9 | 1627.0 | 1183.1 | 657.6 | 252.1 | 54.4 | 29.2 | 25.2 |
| 69° | 3104.7 | 2415.3 | 1885.8 | 1505.6 | 1183.8 | 785.0 | 406.7 | 159.3 | 41.8 | 26.6 | 23.2 |
| 70° | 2855.9 | 2100.8 | 1536.1 | 1208.3 | 876.5 | 551.4 | 284.6 | 112.1 | 33.8 | 24.5 | 21.2 |
| 72.5° | 1837.3 | 1103.5 | 755.1 | 525.5 | 361.6 | 219.6 | 111.5 | 50.4 | 25.9 | 20.6 | 17.2 |
| 75° | 712.7 | 408.1 | 295.9 | 224.9 | 175.8 | 122.1 | 67.7 | 32.5 | 21.9 | 17.2 | 13.3 |
| 77.5° | 351.0 | 268.7 | 219.6 | 150.6 | 87.6 | 54.4 | 36.5 | 25.2 | 17.9 | 12.6 | 8.6 |
| 80° | 277.4 | 184.5 | 110.2 | 68.3 | 51.8 | 39.2 | 27.9 | 20.6 | 13.3 | 8.0 | 6.0 |
| 82.5° | 142.0 | 77.6 | 57.1 | 46.5 | 38.5 | 30.5 | 22.6 | 14.6 | 8.6 | 5.3 | 4.6 |
| 85° | 44.5 | 32.5 | 29.2 | 28.5 | 26.6 | 21.9 | 15.9 | 9.3 | 5.3 | 3.3 | 3.3 |
| 87.5° | 3.3 | 4.6 | 6.0 | 4.6 | 5.3 | 4.6 | 6.0 | 4.0 | 2.7 | 2.7 | 2.0 |
| 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: P163939

CATALOG NUMBER: OVF-E02-LED-E-U-SL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 |
| 2.5° | 278.7 | 270.7 | 263.4 | 258.8 | 250.2 | 246.8 | 243.5 | 242.2 | 236.2 | 237.6 | 232.2 |
| 5° | 243.5 | 229.6 | 219.0 | 208.3 | 198.4 | 191.1 | 185.1 | 177.8 | 171.9 | 169.2 | 163.9 |
| 7.5° | 211.7 | 193.8 | 179.8 | 168.5 | 156.6 | 147.3 | 139.3 | 134.1 | 128.7 | 123.4 | 120.8 |
| 10° | 183.8 | 164.5 | 148.6 | 137.3 | 126.1 | 118.1 | 112.1 | 108.2 | 104.8 | 102.9 | 102.2 |
| 12.5° | 157.9 | 139.3 | 124.7 | 114.8 | 106.2 | 102.2 | 99.5 | 97.5 | 96.9 | 96.2 | 96.2 |
| 15° | 138.0 | 119.4 | 108.2 | 100.8 | 96.9 | 94.9 | 94.2 | 92.9 | 91.6 | 90.9 | 90.9 |
| 17.5° | 119.4 | 105.5 | 97.5 | 93.5 | 91.6 | 90.3 | 88.9 | 87.6 | 86.3 | 85.6 | 85.6 |
| 20° | 106.8 | 95.6 | 91.6 | 88.9 | 86.9 | 85.6 | 83.6 | 82.3 | 81.6 | 80.9 | 80.3 |
| 22.5° | 96.9 | 89.6 | 86.9 | 84.9 | 82.3 | 80.3 | 79.0 | 77.6 | 76.3 | 75.6 | 75.0 |
| 25° | 89.6 | 84.9 | 83.0 | 80.3 | 77.6 | 75.6 | 73.6 | 71.7 | 70.3 | 69.7 | 68.3 |
| 27.5° | 84.3 | 80.9 | 78.3 | 75.0 | 72.3 | 70.3 | 68.3 | 66.4 | 65.0 | 63.7 | 63.0 |
| 30° | 79.6 | 76.3 | 73.0 | 70.3 | 67.0 | 65.0 | 62.4 | 60.4 | 59.7 | 58.4 | 57.1 |
| 32.5° | 75.0 | 71.7 | 68.3 | 65.0 | 61.7 | 59.1 | 57.7 | 55.1 | 53.7 | 53.1 | 51.8 |
| 35° | 69.7 | 66.4 | 62.4 | 59.7 | 56.4 | 53.7 | 51.8 | 49.7 | 48.4 | 47.1 | 46.5 |
| 37.5° | 65.0 | 61.0 | 57.1 | 53.7 | 51.1 | 48.4 | 46.5 | 44.5 | 43.1 | 41.8 | 41.1 |
| 40° | 59.7 | 55.7 | 51.8 | 48.4 | 45.8 | 43.8 | 41.8 | 39.8 | 38.5 | 37.8 | 37.8 |
| 42.5° | 55.1 | 50.4 | 46.5 | 43.8 | 41.8 | 39.2 | 37.1 | 35.2 | 34.5 | 33.8 | 34.5 |
| 45° | 50.4 | 45.8 | 42.5 | 39.8 | 37.8 | 35.2 | 33.2 | 31.9 | 31.2 | 31.9 | 32.5 |
| 47.5° | 46.5 | 41.8 | 38.5 | 36.5 | 34.5 | 32.5 | 30.5 | 29.2 | 29.2 | 30.5 | 31.9 |
| 50° | 42.5 | 37.8 | 35.2 | 33.8 | 31.9 | 29.8 | 27.2 | 26.6 | 27.2 | 28.5 | 29.8 |
| 52.5° | 38.5 | 33.2 | 31.2 | 30.5 | 28.5 | 26.6 | 24.5 | 23.9 | 24.5 | 25.9 | 25.2 |
| 55° | 34.5 | 29.2 | 28.5 | 27.9 | 25.9 | 23.2 | 21.2 | 21.2 | 21.2 | 20.6 | 19.2 |
| 57.5° | 33.2 | 25.9 | 25.2 | 24.5 | 22.6 | 19.9 | 18.6 | 17.2 | 16.6 | 14.6 | 13.9 |
| 60° | 34.5 | 23.2 | 23.2 | 21.9 | 19.9 | 17.2 | 15.3 | 13.3 | 11.9 | 10.6 | 10.6 |
| 62.5° | 27.9 | 21.2 | 20.6 | 19.2 | 16.6 | 13.9 | 11.9 | 9.9 | 9.3 | 8.6 | 8.6 |
| 65° | 22.6 | 19.2 | 17.9 | 15.9 | 13.9 | 11.3 | 9.3 | 8.0 | 7.3 | 7.3 | 8.0 |
| 67.5° | 20.6 | 17.2 | 15.3 | 13.3 | 11.3 | 8.6 | 7.3 | 6.6 | 6.6 | 7.3 | 7.3 |
| 69° | 19.2 | 15.9 | 13.9 | 11.9 | 9.9 | 8.0 | 6.6 | 6.6 | 6.6 | 6.6 | 7.3 |
| 70° | 17.9 | 15.3 | 13.3 | 11.3 | 8.6 | 6.6 | 6.0 | 6.0 | 6.6 | 6.6 | 7.3 |
| 72.5° | 13.9 | 11.9 | 11.3 | 9.3 | 6.6 | 6.0 | 5.3 | 6.0 | 6.0 | 6.6 | 6.6 |
| 75° | 10.6 | 8.6 | 8.6 | 7.3 | 5.3 | 4.6 | 4.6 | 5.3 | 5.3 | 6.0 | 6.0 |
| 77.5° | 7.3 | 6.0 | 6.0 | 5.3 | 4.6 | 4.0 | 4.0 | 4.6 | 5.3 | 5.3 | 6.0 |
| 80° | 5.3 | 4.6 | 4.0 | 4.6 | 4.0 | 3.3 | 4.0 | 4.6 | 4.6 | 5.3 | 5.3 |
| 82.5° | 4.0 | 4.0 | 4.0 | 4.0 | 3.3 | 3.3 | 4.0 | 4.0 | 4.6 | 5.3 | 5.3 |
| 85° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 4.0 | 4.0 | 4.6 | 4.6 |
| 87.5° | 2.0 | 2.0 | 2.0 | 2.7 | 2.7 | 3.3 | 3.3 | 3.3 | 3.3 | 4.0 | 4.0 |
| 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: P163939

CATALOG NUMBER: OVF-E02-LED-E-U-SL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 305.9 | 305.9 | 305.9 | 305.9 |
| 2.5° | 230.9 | 230.3 | 227.6 | 228.2 |
| 5° | 161.9 | 157.9 | 160.6 | 159.9 |
| 7.5° | 118.8 | 118.1 | 117.4 | 118.8 |
| 10° | 101.5 | 101.5 | 100.8 | 101.5 |
| 12.5° | 95.6 | 95.6 | 95.6 | 95.6 |
| 15° | 90.9 | 90.9 | 90.3 | 90.3 |
| 17.5° | 85.6 | 85.6 | 85.6 | 84.9 |
| 20° | 80.3 | 79.6 | 79.6 | 79.6 |
| 22.5° | 74.3 | 73.6 | 73.6 | 73.6 |
| 25° | 68.3 | 67.7 | 67.7 | 67.7 |
| 27.5° | 62.4 | 61.7 | 61.0 | 61.0 |
| 30° | 56.4 | 55.7 | 55.1 | 55.1 |
| 32.5° | 50.4 | 49.7 | 49.1 | 49.1 |
| 35° | 45.1 | 45.1 | 44.5 | 43.8 |
| 37.5° | 40.5 | 40.5 | 40.5 | 40.5 |
| 40° | 37.1 | 37.8 | 37.8 | 37.8 |
| 42.5° | 35.2 | 35.8 | 36.5 | 37.1 |
| 45° | 33.8 | 35.2 | 35.8 | 35.8 |
| 47.5° | 33.2 | 33.8 | 34.5 | 34.5 |
| 50° | 30.5 | 29.8 | 29.8 | 29.8 |
| 52.5° | 24.5 | 23.2 | 22.6 | 21.9 |
| 55° | 17.9 | 17.2 | 15.9 | 15.9 |
| 57.5° | 12.6 | 12.6 | 11.9 | 11.9 |
| 60° | 9.9 | 9.9 | 9.3 | 9.9 |
| 62.5° | 8.6 | 8.6 | 8.6 | 8.6 |
| 65° | 8.0 | 8.0 | 8.0 | 8.0 |
| 67.5° | 8.0 | 8.0 | 8.0 | 8.0 |
| 69° | 7.3 | 7.3 | 7.3 | 7.3 |
| 70° | 7.3 | 7.3 | 7.3 | 7.3 |
| 72.5° | 6.6 | 6.6 | 6.6 | 6.6 |
| 75° | 6.0 | 6.6 | 6.6 | 6.6 |
| 77.5° | 6.0 | 6.0 | 6.0 | 6.0 |
| 80° | 5.3 | 5.3 | 6.0 | 6.0 |
| 82.5° | 5.3 | 5.3 | 5.3 | 5.3 |
| 85° | 4.6 | 4.6 | 5.3 | 5.3 |
| 87.5° | 4.0 | 4.0 | 4.6 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)