

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: P162093

Luminaire Tested: **OVF-F01-LED-E-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P162093
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-F01-LED-E-U-T2-7050
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2540 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

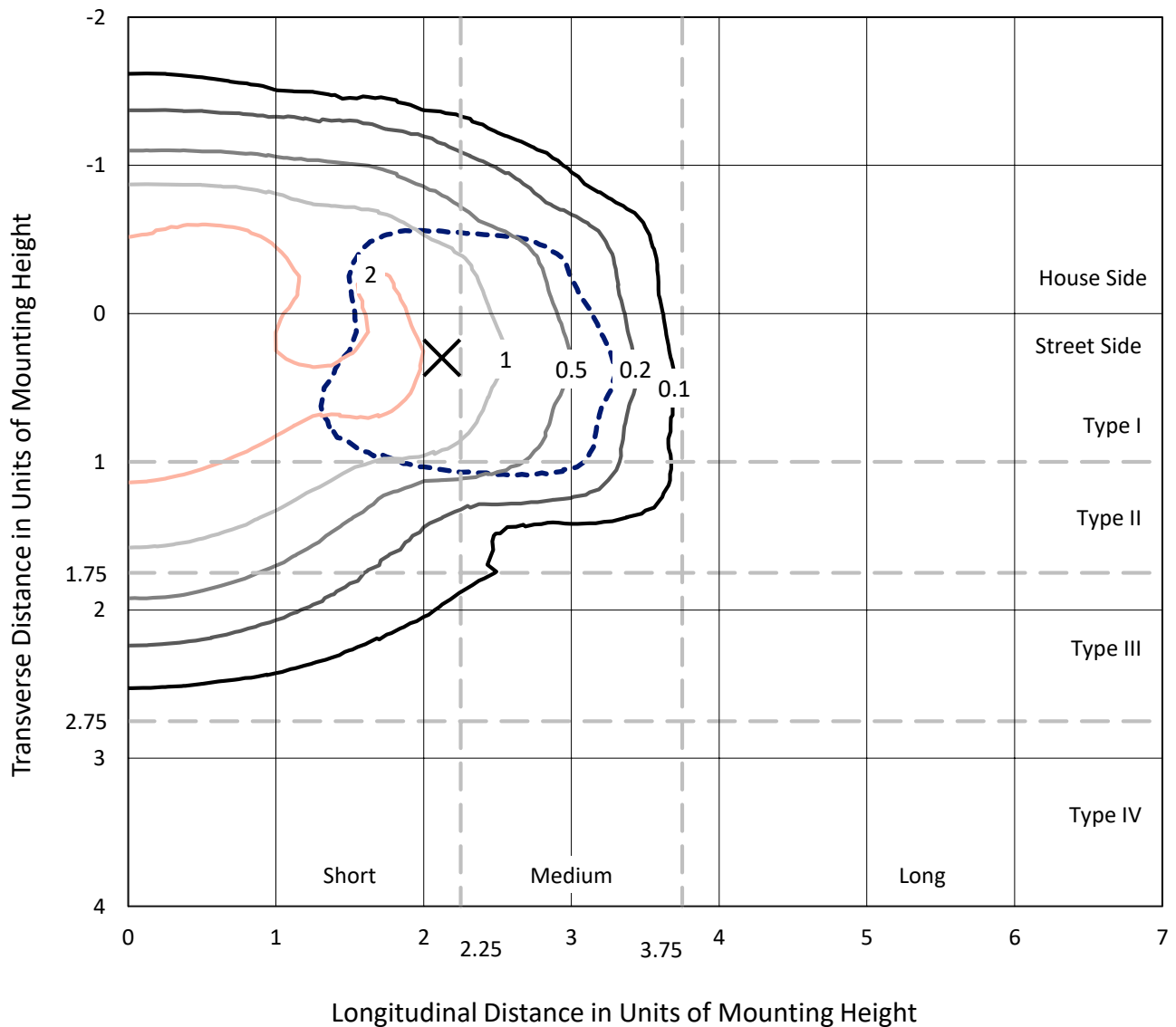
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

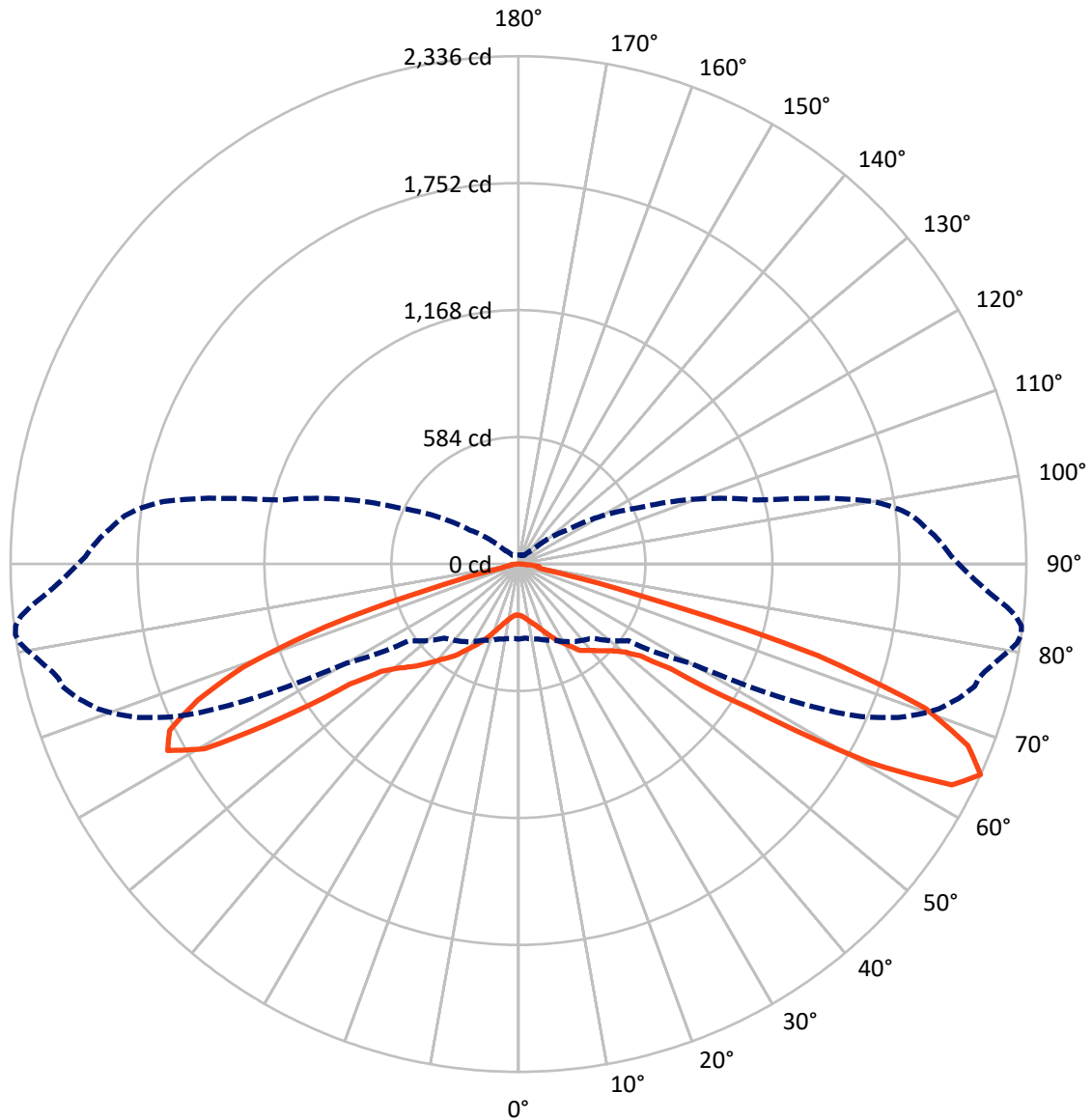
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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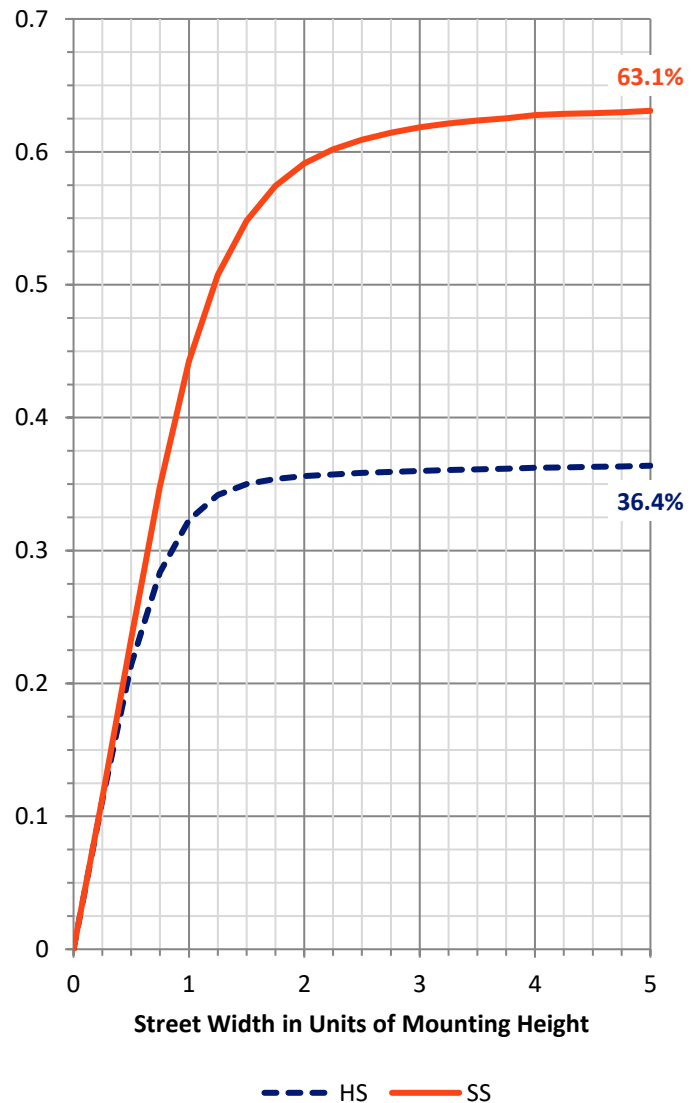
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 935.0 | 0.0 | 935.0 |
| | % Fixture | 36.8 | 0.0 | 36.8 |
| Street Side | Lumens | 1605.0 | 0.0 | 1605.0 |
| | % Fixture | 63.2 | 0.0 | 63.2 |
| Total | Lumens | 2540.0 | 0.0 | 2540.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.9 | 0.9 |
| 10°-20° | 84.1 | 3.3 |
| 20°-30° | 166.8 | 6.6 |
| 30°-40° | 284.7 | 11.2 |
| 40°-50° | 426.9 | 16.8 |
| 50°-60° | 594.2 | 23.4 |
| 60°-70° | 682.7 | 26.9 |
| 70°-80° | 235.6 | 9.3 |
| 80°-90° | 41.2 | 1.6 |
| 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° | 2540.0 | 100.0 |
| 0°-180° | 2540.0 | 100.0 |

Coefficient of Utilization



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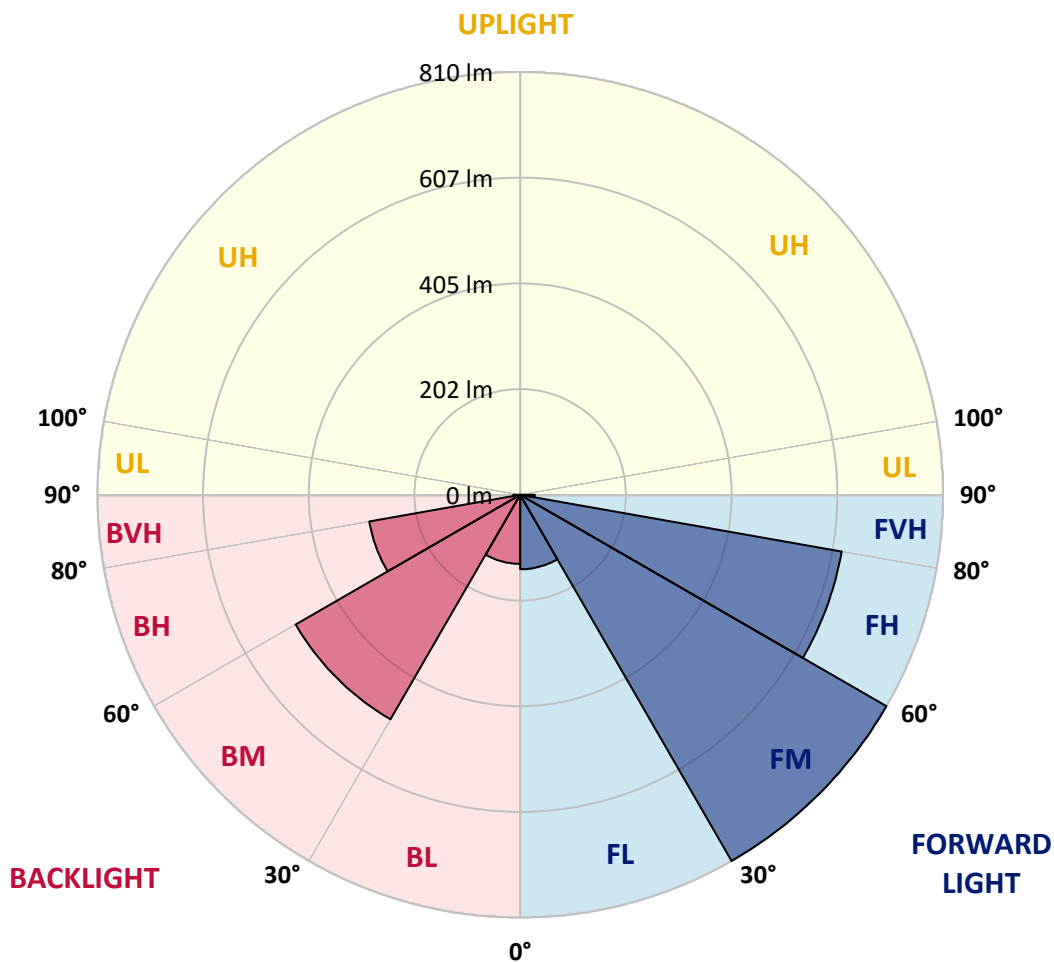
CATALOG NUMBER: OVF-F01-LED-E-U-T2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 142.6 | 5.6 | | | |
| FM (30°-60°) | 809.5 | 31.9 | | | |
| FH (60°-80°) | 624.9 | 24.6 | | | G0/660 |
| FVH (80°-90°) | 28.0 | 1.1 | | | G1/100 |
| BL (0°-30°) | 132.3 | 5.2 | B1/500 | | |
| BM (30°-60°) | 496.2 | 19.5 | B1/1000 | | |
| BH (60°-80°) | 293.3 | 11.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.2 | 0.5 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 |
| 2.5° | 248.4 | 248.2 | 248.0 | 247.3 | 247.0 | 245.7 | 244.3 | 243.4 | 242.8 | 243.1 | 242.1 |
| 5° | 262.8 | 262.8 | 262.1 | 261.2 | 260.2 | 258.4 | 255.0 | 253.3 | 252.9 | 252.9 | 251.8 |
| 7.5° | 277.5 | 278.5 | 276.7 | 276.0 | 274.3 | 271.4 | 267.5 | 265.3 | 264.6 | 264.6 | 263.6 |
| 10° | 296.1 | 295.6 | 293.6 | 292.2 | 288.9 | 285.0 | 279.7 | 277.2 | 276.1 | 277.0 | 275.3 |
| 12.5° | 315.8 | 315.6 | 312.6 | 310.0 | 305.3 | 299.0 | 292.1 | 288.7 | 288.0 | 288.0 | 287.0 |
| 15° | 335.8 | 336.0 | 332.6 | 327.8 | 320.4 | 311.9 | 304.1 | 300.9 | 300.0 | 299.7 | 298.5 |
| 17.5° | 351.0 | 352.7 | 349.3 | 343.2 | 334.1 | 324.8 | 316.5 | 313.2 | 313.1 | 312.7 | 311.4 |
| 20° | 359.7 | 360.0 | 358.1 | 353.7 | 345.6 | 336.6 | 330.9 | 329.3 | 329.2 | 329.3 | 329.7 |
| 22.5° | 359.3 | 359.8 | 359.2 | 357.5 | 352.2 | 347.3 | 346.6 | 347.5 | 348.0 | 347.5 | 348.7 |
| 25° | 356.6 | 357.3 | 357.3 | 358.1 | 356.8 | 358.5 | 363.9 | 366.3 | 366.4 | 366.8 | 369.3 |
| 27.5° | 362.5 | 363.2 | 363.1 | 364.6 | 365.8 | 371.7 | 381.5 | 385.8 | 386.3 | 387.5 | 389.8 |
| 30° | 390.0 | 390.2 | 387.1 | 386.9 | 388.1 | 392.9 | 402.9 | 407.8 | 407.3 | 409.6 | 411.2 |
| 32.5° | 433.4 | 434.7 | 431.7 | 428.5 | 427.9 | 428.6 | 430.5 | 433.9 | 433.4 | 434.5 | 436.6 |
| 35° | 482.8 | 483.0 | 481.3 | 483.2 | 484.2 | 479.6 | 470.8 | 470.0 | 467.2 | 467.8 | 468.4 |
| 37.5° | 528.2 | 529.4 | 532.6 | 544.5 | 551.3 | 540.1 | 522.8 | 512.0 | 510.3 | 509.4 | 503.5 |
| 40° | 570.8 | 576.7 | 584.5 | 599.9 | 609.2 | 613.3 | 588.7 | 566.9 | 560.9 | 558.6 | 549.2 |
| 42.5° | 620.6 | 623.6 | 632.8 | 650.4 | 662.8 | 681.2 | 664.8 | 640.7 | 633.8 | 623.6 | 611.9 |
| 45° | 662.8 | 664.8 | 670.5 | 685.5 | 711.4 | 742.2 | 744.1 | 727.3 | 721.9 | 711.7 | 694.6 |
| 47.5° | 691.0 | 690.9 | 695.1 | 709.7 | 743.4 | 790.5 | 818.4 | 817.8 | 811.5 | 807.9 | 793.4 |
| 50° | 702.1 | 701.9 | 704.6 | 720.9 | 757.6 | 819.3 | 881.0 | 902.1 | 902.0 | 903.3 | 895.9 |
| 52.5° | 704.1 | 703.9 | 704.3 | 717.3 | 754.7 | 829.3 | 926.0 | 976.0 | 983.3 | 992.4 | 1000.7 |
| 55° | 688.8 | 690.5 | 694.3 | 708.0 | 743.9 | 825.2 | 959.4 | 1045.3 | 1062.7 | 1081.4 | 1111.5 |
| 57.5° | 653.6 | 656.8 | 669.7 | 694.3 | 732.4 | 815.2 | 982.6 | 1131.0 | 1166.4 | 1211.5 | 1293.1 |
| 60° | 603.1 | 606.0 | 623.8 | 656.3 | 698.8 | 771.7 | 955.7 | 1166.9 | 1234.2 | 1312.5 | 1479.8 |
| 62.5° | 513.8 | 522.0 | 531.5 | 554.5 | 599.1 | 657.7 | 834.7 | 1106.3 | 1210.5 | 1325.3 | 1555.7 |
| 65° | 345.1 | 341.7 | 357.5 | 386.8 | 435.7 | 481.3 | 615.0 | 912.5 | 1044.3 | 1202.3 | 1487.5 |
| 67.5° | 213.6 | 214.1 | 224.8 | 253.4 | 290.4 | 325.8 | 389.8 | 581.6 | 698.5 | 848.8 | 1191.7 |
| 70° | 176.5 | 178.6 | 187.2 | 213.8 | 245.3 | 285.3 | 289.4 | 308.3 | 360.7 | 433.4 | 736.1 |
| 72.5° | 140.1 | 141.0 | 149.8 | 172.0 | 216.5 | 271.4 | 343.6 | 234.3 | 230.2 | 241.2 | 373.4 |
| 75° | 86.9 | 87.6 | 92.0 | 106.2 | 140.4 | 211.4 | 378.3 | 269.4 | 252.4 | 238.2 | 240.6 |
| 77.5° | 44.9 | 46.3 | 48.6 | 55.1 | 73.7 | 118.1 | 297.8 | 341.5 | 322.2 | 302.9 | 265.1 |
| 80° | 25.4 | 25.4 | 27.6 | 29.1 | 34.9 | 48.1 | 151.5 | 369.7 | 403.9 | 412.2 | 370.2 |
| 82.5° | 11.4 | 12.7 | 17.1 | 18.3 | 20.0 | 22.0 | 50.1 | 222.1 | 308.2 | 384.9 | 475.7 |
| 85° | 6.8 | 6.6 | 10.8 | 11.9 | 12.4 | 10.5 | 18.8 | 90.6 | 144.0 | 210.8 | 315.3 |
| 87.5° | 2.7 | 2.9 | 4.6 | 4.9 | 5.8 | 4.2 | 7.1 | 19.5 | 28.6 | 41.5 | 58.6 |
| 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-F01-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 |
| 2.5° | 241.9 | 241.9 | 241.8 | 241.6 | 241.4 | 240.9 | 240.7 | 240.4 | 240.2 | 239.7 | 239.6 |
| 5° | 251.6 | 251.1 | 250.9 | 250.6 | 250.4 | 249.7 | 249.7 | 249.0 | 248.5 | 247.9 | 247.7 |
| 7.5° | 263.1 | 262.4 | 261.9 | 261.6 | 261.4 | 260.2 | 260.2 | 259.2 | 259.0 | 258.2 | 257.8 |
| 10° | 274.8 | 274.3 | 273.6 | 273.3 | 273.1 | 272.4 | 271.7 | 271.1 | 270.6 | 270.0 | 269.4 |
| 12.5° | 286.5 | 285.5 | 285.1 | 284.6 | 284.3 | 283.8 | 283.6 | 282.1 | 282.1 | 281.6 | 280.9 |
| 15° | 297.8 | 297.7 | 296.5 | 296.3 | 296.0 | 296.1 | 295.1 | 295.3 | 294.8 | 293.9 | 293.6 |
| 17.5° | 311.7 | 310.5 | 311.0 | 310.2 | 310.4 | 310.0 | 309.7 | 309.5 | 309.9 | 309.7 | 310.0 |
| 20° | 329.0 | 328.7 | 329.2 | 328.0 | 329.2 | 329.3 | 329.0 | 329.9 | 329.5 | 329.9 | 328.8 |
| 22.5° | 349.5 | 348.3 | 348.3 | 349.2 | 349.7 | 351.2 | 350.4 | 351.0 | 351.7 | 352.2 | 351.5 |
| 25° | 370.2 | 369.8 | 370.5 | 371.2 | 372.2 | 373.6 | 373.2 | 373.4 | 374.7 | 375.6 | 375.8 |
| 27.5° | 391.2 | 391.2 | 393.2 | 393.2 | 394.6 | 396.1 | 396.6 | 397.3 | 398.3 | 399.5 | 399.5 |
| 30° | 412.9 | 412.9 | 414.7 | 416.4 | 417.1 | 419.0 | 420.0 | 421.0 | 422.9 | 423.2 | 424.7 |
| 32.5° | 437.6 | 438.1 | 440.0 | 441.0 | 442.5 | 444.7 | 445.1 | 446.2 | 448.4 | 449.1 | 450.3 |
| 35° | 469.8 | 468.1 | 469.8 | 471.7 | 472.5 | 471.8 | 475.5 | 477.1 | 478.6 | 479.4 | 481.0 |
| 37.5° | 503.0 | 500.1 | 500.3 | 499.9 | 497.9 | 499.1 | 499.1 | 498.8 | 499.8 | 499.6 | 500.3 |
| 40° | 545.0 | 539.9 | 538.4 | 535.2 | 530.8 | 528.4 | 525.9 | 525.5 | 523.0 | 524.0 | 522.1 |
| 42.5° | 602.6 | 595.0 | 590.9 | 580.9 | 575.5 | 569.1 | 562.8 | 557.4 | 554.5 | 551.3 | 548.9 |
| 45° | 681.7 | 672.7 | 662.9 | 646.8 | 637.5 | 624.6 | 616.3 | 604.0 | 595.7 | 588.7 | 583.8 |
| 47.5° | 781.0 | 765.9 | 758.0 | 742.9 | 726.6 | 707.1 | 689.4 | 672.1 | 658.0 | 642.8 | 630.7 |
| 50° | 896.4 | 877.6 | 871.3 | 851.3 | 842.2 | 820.3 | 801.3 | 780.0 | 758.0 | 734.9 | 712.9 |
| 52.5° | 998.5 | 996.3 | 998.9 | 985.5 | 985.1 | 974.1 | 953.1 | 928.2 | 907.7 | 884.5 | 855.5 |
| 55° | 1121.0 | 1142.9 | 1147.6 | 1145.8 | 1155.7 | 1155.4 | 1153.4 | 1150.8 | 1134.6 | 1101.7 | 1091.7 |
| 57.5° | 1337.2 | 1361.8 | 1398.0 | 1414.4 | 1450.7 | 1454.9 | 1488.5 | 1475.4 | 1500.3 | 1493.6 | 1498.1 |
| 60° | 1557.3 | 1632.7 | 1701.4 | 1753.8 | 1804.6 | 1850.9 | 1907.4 | 1931.7 | 1949.8 | 1978.1 | 2007.9 |
| 62.5° | 1655.7 | 1750.7 | 1832.7 | 1907.3 | 1970.5 | 2029.1 | 2077.7 | 2123.8 | 2160.0 | 2192.6 | 2217.6 |
| 65° | 1615.9 | 1726.2 | 1806.1 | 1883.9 | 1942.9 | 1997.4 | 2045.7 | 2080.2 | 2116.3 | 2145.8 | 2172.4 |
| 67.5° | 1345.3 | 1492.2 | 1596.6 | 1684.8 | 1758.9 | 1821.0 | 1871.2 | 1918.8 | 1944.4 | 1976.6 | 1991.0 |
| 70° | 891.1 | 1079.5 | 1227.1 | 1346.3 | 1463.7 | 1534.2 | 1593.7 | 1649.1 | 1678.2 | 1704.3 | 1720.4 |
| 72.5° | 489.4 | 618.2 | 775.8 | 917.6 | 1030.4 | 1122.9 | 1192.2 | 1244.7 | 1274.7 | 1297.0 | 1273.8 |
| 75° | 277.3 | 340.9 | 417.9 | 496.4 | 581.9 | 647.2 | 665.5 | 687.8 | 693.1 | 681.6 | 651.7 |
| 77.5° | 255.0 | 255.0 | 255.1 | 253.3 | 257.0 | 261.6 | 258.9 | 254.3 | 233.6 | 229.0 | 222.6 |
| 80° | 331.5 | 295.5 | 256.8 | 210.9 | 172.0 | 145.0 | 136.7 | 137.4 | 144.0 | 156.9 | 171.1 |
| 82.5° | 470.0 | 434.4 | 378.6 | 308.7 | 245.7 | 192.8 | 158.1 | 142.1 | 142.0 | 154.8 | 173.3 |
| 85° | 342.7 | 345.6 | 333.2 | 294.8 | 235.1 | 185.2 | 149.6 | 114.9 | 103.7 | 103.7 | 102.3 |
| 87.5° | 60.0 | 61.8 | 53.4 | 47.8 | 33.4 | 23.5 | 21.2 | 18.6 | 18.5 | 19.1 | 17.6 |
| 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-F01-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 |
| 2.5° | 239.6 | 239.2 | 238.9 | 238.7 | 238.7 | 238.4 | 238.4 | 238.0 | 238.2 | 238.0 | 237.5 |
| 5° | 247.3 | 247.2 | 246.7 | 245.8 | 245.7 | 245.0 | 245.1 | 244.5 | 244.5 | 244.1 | 243.3 |
| 7.5° | 257.2 | 256.8 | 256.5 | 255.8 | 255.1 | 255.1 | 254.0 | 254.0 | 253.1 | 252.8 | 252.1 |
| 10° | 268.9 | 267.8 | 267.3 | 266.7 | 266.5 | 266.3 | 265.1 | 265.1 | 264.1 | 263.9 | 263.4 |
| 12.5° | 280.4 | 279.7 | 279.2 | 278.9 | 278.0 | 277.8 | 277.3 | 276.8 | 276.3 | 276.0 | 275.8 |
| 15° | 292.9 | 292.6 | 292.1 | 292.1 | 292.1 | 291.2 | 290.7 | 290.4 | 290.4 | 289.9 | 290.2 |
| 17.5° | 309.2 | 309.7 | 309.0 | 308.7 | 308.2 | 309.0 | 308.2 | 308.2 | 308.7 | 308.7 | 307.5 |
| 20° | 329.3 | 330.0 | 329.3 | 329.5 | 329.2 | 329.3 | 329.5 | 329.9 | 330.5 | 329.3 | 329.5 |
| 22.5° | 351.7 | 351.9 | 352.4 | 351.9 | 352.7 | 352.2 | 353.2 | 354.1 | 353.9 | 353.6 | 353.7 |
| 25° | 376.1 | 375.6 | 375.8 | 377.3 | 378.5 | 378.1 | 378.3 | 379.7 | 379.3 | 379.0 | 379.2 |
| 27.5° | 400.8 | 400.5 | 401.0 | 402.4 | 403.7 | 403.5 | 403.2 | 404.2 | 404.2 | 403.4 | 403.7 |
| 30° | 425.4 | 425.9 | 426.8 | 426.8 | 427.4 | 428.1 | 427.6 | 428.8 | 429.0 | 428.3 | 429.1 |
| 32.5° | 451.3 | 452.3 | 452.0 | 454.4 | 454.4 | 454.5 | 455.0 | 454.9 | 456.6 | 455.2 | 455.7 |
| 35° | 482.5 | 482.8 | 484.9 | 486.6 | 487.6 | 488.4 | 488.4 | 488.9 | 489.8 | 489.1 | 490.1 |
| 37.5° | 501.5 | 502.1 | 502.8 | 503.8 | 503.8 | 503.8 | 504.7 | 504.9 | 505.4 | 505.2 | 505.5 |
| 40° | 522.3 | 522.5 | 522.6 | 522.8 | 523.5 | 523.8 | 523.0 | 524.2 | 523.3 | 523.7 | 524.2 |
| 42.5° | 547.5 | 545.2 | 545.5 | 545.0 | 546.2 | 544.7 | 545.0 | 546.4 | 545.7 | 546.7 | 546.7 |
| 45° | 576.9 | 574.1 | 571.8 | 570.4 | 570.4 | 568.4 | 568.7 | 569.2 | 570.1 | 571.4 | 573.8 |
| 47.5° | 620.2 | 610.9 | 606.3 | 601.6 | 599.2 | 596.7 | 597.5 | 597.7 | 598.0 | 600.2 | 606.2 |
| 50° | 691.2 | 675.6 | 663.6 | 649.2 | 643.8 | 639.4 | 636.8 | 637.0 | 637.0 | 641.6 | 647.5 |
| 52.5° | 828.4 | 799.5 | 770.8 | 745.8 | 724.2 | 713.9 | 701.9 | 698.8 | 699.0 | 702.9 | 707.0 |
| 55° | 1065.5 | 1025.6 | 995.3 | 939.6 | 922.6 | 875.0 | 850.0 | 835.6 | 824.4 | 829.8 | 835.7 |
| 57.5° | 1490.7 | 1453.9 | 1429.9 | 1363.3 | 1302.6 | 1285.4 | 1244.2 | 1210.8 | 1197.1 | 1181.2 | 1182.2 |
| 60° | 2012.3 | 1993.3 | 1987.2 | 1948.3 | 1926.4 | 1858.5 | 1853.1 | 1810.9 | 1771.1 | 1736.7 | 1750.7 |
| 62.5° | 2237.0 | 2245.8 | 2252.9 | 2266.6 | 2271.9 | 2265.4 | 2238.1 | 2219.5 | 2186.8 | 2141.7 | 2114.1 |
| 65° | 2180.2 | 2200.4 | 2230.7 | 2259.3 | 2293.5 | 2322.0 | 2336.1 | 2330.6 | 2301.2 | 2254.7 | 2196.8 |
| 67.5° | 2001.3 | 2021.8 | 2047.9 | 2084.1 | 2136.5 | 2191.9 | 2230.5 | 2255.1 | 2231.7 | 2189.9 | 2130.9 |
| 70° | 1719.6 | 1739.6 | 1740.4 | 1791.1 | 1847.5 | 1917.3 | 1985.7 | 2011.5 | 1984.9 | 1956.9 | 1907.6 |
| 72.5° | 1287.9 | 1275.9 | 1287.0 | 1296.4 | 1328.6 | 1372.6 | 1439.0 | 1436.1 | 1395.5 | 1373.8 | 1298.1 |
| 75° | 605.3 | 597.2 | 585.3 | 577.5 | 570.1 | 554.5 | 561.9 | 530.1 | 519.1 | 523.5 | 458.1 |
| 77.5° | 217.7 | 206.5 | 188.6 | 171.1 | 149.1 | 123.5 | 104.2 | 91.5 | 85.2 | 85.4 | 81.5 |
| 80° | 182.6 | 188.1 | 185.5 | 168.2 | 143.5 | 116.7 | 87.4 | 66.2 | 56.6 | 52.5 | 50.0 |
| 82.5° | 198.0 | 225.3 | 238.9 | 228.2 | 192.8 | 148.4 | 95.6 | 57.8 | 42.4 | 36.3 | 34.7 |
| 85° | 109.8 | 110.0 | 106.6 | 101.8 | 90.3 | 62.0 | 41.3 | 27.4 | 22.0 | 19.7 | 19.0 |
| 87.5° | 18.6 | 17.8 | 17.8 | 16.6 | 14.6 | 14.2 | 12.7 | 12.0 | 10.7 | 9.8 | 9.5 |
| 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: P162093

CATALOG NUMBER: OVF-F01-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° | 95° | 96° | 97° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 |
| 2.5° | 237.0 | 236.7 | 236.5 | 236.3 | 236.3 | 236.2 | 236.2 | 235.8 | 235.5 | 235.3 | 235.1 |
| 5° | 242.4 | 242.1 | 241.8 | 241.4 | 241.4 | 241.1 | 240.7 | 240.4 | 239.9 | 239.0 | 238.9 |
| 7.5° | 251.6 | 250.9 | 250.9 | 249.7 | 249.7 | 249.0 | 248.5 | 248.5 | 247.9 | 246.5 | 246.3 |
| 10° | 262.9 | 261.7 | 261.2 | 260.6 | 260.2 | 259.5 | 259.5 | 258.9 | 258.5 | 258.0 | 256.3 |
| 12.5° | 275.1 | 274.3 | 273.9 | 273.1 | 272.6 | 272.6 | 272.3 | 271.1 | 271.9 | 270.7 | 269.9 |
| 15° | 289.9 | 289.7 | 288.2 | 288.7 | 288.5 | 288.3 | 288.5 | 287.5 | 287.3 | 287.3 | 286.3 |
| 17.5° | 308.3 | 307.0 | 307.1 | 307.1 | 307.5 | 307.5 | 306.1 | 306.8 | 307.0 | 306.6 | 306.3 |
| 20° | 330.0 | 329.5 | 330.0 | 329.0 | 330.0 | 330.0 | 330.7 | 330.5 | 330.7 | 331.0 | 331.0 |
| 22.5° | 353.2 | 354.6 | 354.8 | 355.1 | 353.9 | 355.9 | 355.9 | 356.3 | 357.1 | 357.1 | 357.5 |
| 25° | 381.4 | 380.7 | 379.8 | 381.0 | 381.4 | 382.7 | 383.0 | 383.0 | 384.4 | 384.4 | 384.9 |
| 27.5° | 404.7 | 405.4 | 405.2 | 405.9 | 405.6 | 407.4 | 408.1 | 410.2 | 409.6 | 410.7 | 412.0 |
| 30° | 428.8 | 430.1 | 429.5 | 429.6 | 430.5 | 431.7 | 433.0 | 435.1 | 435.4 | 438.1 | 438.8 |
| 32.5° | 456.6 | 457.6 | 458.4 | 458.8 | 458.8 | 460.8 | 463.0 | 463.7 | 467.2 | 469.3 | 471.7 |
| 35° | 491.8 | 492.0 | 492.5 | 493.0 | 492.7 | 494.9 | 497.1 | 497.7 | 501.5 | 502.0 | 506.9 |
| 37.5° | 506.7 | 507.1 | 509.1 | 510.1 | 510.8 | 513.5 | 517.6 | 520.6 | 524.7 | 528.6 | 534.2 |
| 40° | 525.4 | 527.4 | 529.3 | 530.8 | 533.3 | 537.0 | 543.3 | 546.4 | 552.5 | 559.7 | 565.2 |
| 42.5° | 548.9 | 552.6 | 554.0 | 556.9 | 563.1 | 567.7 | 574.0 | 580.6 | 588.7 | 597.5 | 604.0 |
| 45° | 576.9 | 580.4 | 585.5 | 588.7 | 596.0 | 603.3 | 613.3 | 619.0 | 627.3 | 637.5 | 644.6 |
| 47.5° | 610.7 | 615.7 | 620.7 | 627.3 | 636.0 | 643.6 | 653.6 | 661.1 | 669.4 | 677.7 | 685.5 |
| 50° | 652.9 | 660.2 | 667.0 | 673.9 | 685.5 | 691.9 | 701.7 | 709.5 | 717.3 | 725.6 | 732.7 |
| 52.5° | 709.7 | 720.7 | 729.3 | 734.1 | 749.7 | 756.1 | 768.1 | 773.5 | 780.0 | 787.4 | 796.6 |
| 55° | 833.5 | 850.6 | 865.2 | 873.7 | 897.4 | 905.9 | 921.4 | 929.4 | 925.0 | 934.5 | 950.9 |
| 57.5° | 1191.7 | 1212.7 | 1230.1 | 1241.6 | 1265.9 | 1277.7 | 1278.6 | 1308.4 | 1290.8 | 1308.2 | 1310.8 |
| 60° | 1713.3 | 1729.9 | 1725.7 | 1725.8 | 1718.2 | 1707.2 | 1728.4 | 1696.2 | 1709.7 | 1710.6 | 1680.3 |
| 62.5° | 2063.1 | 2037.7 | 2025.9 | 2006.2 | 1983.3 | 1965.7 | 1953.7 | 1927.8 | 1907.1 | 1890.7 | 1858.7 |
| 65° | 2145.5 | 2101.4 | 2062.5 | 2025.7 | 1992.0 | 1968.6 | 1943.2 | 1915.4 | 1883.0 | 1855.8 | 1824.6 |
| 67.5° | 2065.8 | 2004.2 | 1946.4 | 1898.0 | 1851.9 | 1821.0 | 1784.3 | 1757.9 | 1717.2 | 1681.3 | 1657.6 |
| 70° | 1834.9 | 1749.5 | 1682.1 | 1651.1 | 1605.4 | 1539.1 | 1504.1 | 1471.0 | 1446.1 | 1413.6 | 1399.2 |
| 72.5° | 1287.2 | 1181.8 | 1129.8 | 1131.9 | 1085.4 | 1038.0 | 1039.2 | 1019.0 | 986.8 | 985.8 | 980.9 |
| 75° | 473.0 | 430.3 | 400.3 | 401.7 | 384.4 | 365.9 | 371.0 | 376.4 | 365.9 | 387.3 | 354.2 |
| 77.5° | 75.2 | 73.2 | 72.5 | 71.0 | 67.3 | 70.0 | 68.1 | 71.7 | 72.2 | 76.1 | 76.4 |
| 80° | 47.9 | 45.9 | 45.4 | 44.6 | 44.4 | 44.4 | 44.0 | 44.0 | 44.0 | 44.2 | 43.9 |
| 82.5° | 32.0 | 30.8 | 30.7 | 30.2 | 31.0 | 31.2 | 31.3 | 32.7 | 33.9 | 34.2 | 35.6 |
| 85° | 17.4 | 16.6 | 16.6 | 16.3 | 16.9 | 17.1 | 18.6 | 20.5 | 22.9 | 23.9 | 26.1 |
| 87.5° | 8.8 | 9.3 | 9.1 | 9.5 | 10.0 | 11.2 | 12.4 | 13.6 | 14.9 | 16.8 | 18.3 |
| 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: P162093

CATALOG NUMBER: OVF-F01-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

| | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° | 115° | 125° | 135° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 |
| 2.5° | 234.8 | 234.6 | 234.6 | 234.3 | 234.3 | 234.1 | 233.8 | 233.5 | 231.9 | 230.1 | 228.9 |
| 5° | 238.4 | 238.0 | 237.9 | 237.5 | 237.0 | 237.0 | 236.5 | 235.8 | 232.9 | 229.9 | 228.0 |
| 7.5° | 245.7 | 245.5 | 245.0 | 244.3 | 243.6 | 242.9 | 242.6 | 242.3 | 237.9 | 235.0 | 233.6 |
| 10° | 256.2 | 256.0 | 254.8 | 254.6 | 253.6 | 253.8 | 252.9 | 252.3 | 249.4 | 246.2 | 244.3 |
| 12.5° | 269.5 | 270.2 | 269.5 | 268.0 | 268.4 | 267.8 | 267.0 | 266.2 | 263.6 | 261.1 | 258.2 |
| 15° | 286.1 | 285.3 | 284.6 | 286.0 | 284.8 | 284.6 | 285.1 | 285.3 | 282.2 | 279.5 | 275.5 |
| 17.5° | 306.8 | 306.8 | 306.5 | 306.8 | 306.1 | 306.6 | 306.3 | 306.6 | 305.3 | 301.6 | 295.6 |
| 20° | 330.4 | 331.7 | 331.7 | 331.2 | 331.0 | 332.1 | 332.6 | 330.7 | 331.0 | 327.8 | 317.1 |
| 22.5° | 357.8 | 358.8 | 359.2 | 358.7 | 358.8 | 360.2 | 361.0 | 359.7 | 362.7 | 357.5 | 341.0 |
| 25° | 386.1 | 387.6 | 386.9 | 387.1 | 388.5 | 390.0 | 391.5 | 390.2 | 396.1 | 388.0 | 366.4 |
| 27.5° | 414.1 | 415.4 | 415.1 | 416.1 | 418.3 | 420.3 | 422.0 | 421.5 | 431.3 | 420.7 | 393.2 |
| 30° | 440.5 | 443.7 | 444.4 | 445.6 | 448.3 | 451.7 | 454.4 | 454.2 | 466.9 | 452.5 | 415.1 |
| 32.5° | 473.0 | 476.6 | 477.9 | 480.5 | 485.7 | 488.1 | 491.5 | 491.8 | 504.5 | 480.5 | 433.5 |
| 35° | 510.6 | 514.2 | 517.1 | 518.9 | 524.8 | 527.7 | 531.1 | 532.6 | 541.1 | 506.6 | 446.4 |
| 37.5° | 539.8 | 542.8 | 548.4 | 552.3 | 557.5 | 563.3 | 567.2 | 569.1 | 573.8 | 528.9 | 452.3 |
| 40° | 571.6 | 578.2 | 583.6 | 589.6 | 595.3 | 599.9 | 603.5 | 606.3 | 604.5 | 547.5 | 449.8 |
| 42.5° | 611.9 | 618.9 | 626.2 | 631.2 | 634.3 | 640.4 | 642.1 | 644.1 | 628.9 | 556.0 | 438.3 |
| 45° | 653.9 | 659.5 | 665.6 | 669.4 | 673.4 | 676.5 | 677.0 | 677.2 | 647.0 | 551.1 | 417.4 |
| 47.5° | 694.4 | 699.2 | 703.4 | 705.4 | 707.5 | 707.6 | 706.8 | 705.4 | 656.7 | 534.5 | 392.4 |
| 50° | 738.8 | 741.7 | 743.6 | 743.7 | 745.6 | 742.0 | 739.7 | 733.4 | 655.6 | 509.1 | 365.9 |
| 52.5° | 802.7 | 802.0 | 799.6 | 799.5 | 793.5 | 786.8 | 782.4 | 773.4 | 648.7 | 481.6 | 335.4 |
| 55° | 949.4 | 943.0 | 950.4 | 931.4 | 915.7 | 905.2 | 880.3 | 862.2 | 655.6 | 456.1 | 300.4 |
| 57.5° | 1302.0 | 1279.9 | 1282.3 | 1251.6 | 1218.1 | 1155.2 | 1118.1 | 1068.0 | 710.2 | 441.8 | 256.2 |
| 60° | 1673.8 | 1637.6 | 1603.3 | 1549.0 | 1477.6 | 1397.8 | 1326.0 | 1247.6 | 764.4 | 424.4 | 209.1 |
| 62.5° | 1827.3 | 1780.6 | 1721.1 | 1644.3 | 1552.7 | 1453.8 | 1354.5 | 1265.0 | 734.6 | 371.9 | 150.6 |
| 65° | 1777.8 | 1721.9 | 1658.6 | 1558.4 | 1454.4 | 1339.4 | 1230.6 | 1136.1 | 611.8 | 271.9 | 91.0 |
| 67.5° | 1602.2 | 1554.0 | 1475.9 | 1381.4 | 1252.7 | 1137.3 | 1029.7 | 942.3 | 451.0 | 168.1 | 52.2 |
| 70° | 1349.1 | 1282.5 | 1215.7 | 1124.9 | 989.2 | 880.5 | 780.3 | 703.1 | 286.1 | 83.0 | 38.5 |
| 72.5° | 931.1 | 878.4 | 825.1 | 743.7 | 642.4 | 567.5 | 481.5 | 417.9 | 149.8 | 44.7 | 35.4 |
| 75° | 362.7 | 357.0 | 350.9 | 313.9 | 279.5 | 224.0 | 196.7 | 177.4 | 62.3 | 38.8 | 34.9 |
| 77.5° | 79.6 | 84.4 | 87.1 | 82.5 | 78.6 | 70.1 | 67.1 | 60.0 | 41.7 | 39.8 | 34.6 |
| 80° | 43.9 | 43.9 | 43.9 | 44.4 | 43.5 | 43.5 | 43.0 | 42.2 | 39.0 | 39.8 | 33.9 |
| 82.5° | 35.9 | 36.4 | 37.1 | 37.3 | 37.1 | 37.3 | 36.9 | 36.8 | 38.1 | 40.0 | 32.2 |
| 85° | 27.4 | 29.1 | 30.2 | 31.5 | 32.9 | 33.7 | 34.1 | 34.2 | 35.1 | 37.9 | 28.1 |
| 87.5° | 19.5 | 20.8 | 23.0 | 23.4 | 24.9 | 26.8 | 27.4 | 28.5 | 28.0 | 28.8 | 13.2 |
| 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: P162093

CATALOG NUMBER: OVF-F01-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 |
| 2.5° | 227.9 | 226.5 | 226.0 | 225.8 | 225.5 |
| 5° | 226.5 | 225.7 | 225.0 | 224.5 | 224.8 |
| 7.5° | 232.6 | 232.1 | 230.9 | 230.6 | 231.1 |
| 10° | 243.4 | 242.3 | 240.6 | 240.7 | 240.6 |
| 12.5° | 257.0 | 253.8 | 251.1 | 249.9 | 249.0 |
| 15° | 270.9 | 264.6 | 259.0 | 256.5 | 255.5 |
| 17.5° | 286.3 | 275.6 | 267.0 | 262.4 | 261.6 |
| 20° | 302.6 | 287.8 | 276.7 | 271.2 | 270.4 |
| 22.5° | 321.4 | 301.1 | 286.8 | 279.4 | 278.2 |
| 25° | 339.7 | 312.9 | 293.9 | 284.8 | 283.3 |
| 27.5° | 356.3 | 321.9 | 298.2 | 287.3 | 285.8 |
| 30° | 370.2 | 329.0 | 301.7 | 289.4 | 287.7 |
| 32.5° | 379.3 | 332.9 | 302.9 | 289.5 | 287.5 |
| 35° | 382.2 | 330.4 | 297.8 | 282.4 | 280.7 |
| 37.5° | 376.1 | 320.0 | 284.3 | 266.8 | 265.5 |
| 40° | 362.2 | 300.9 | 262.9 | 244.8 | 243.1 |
| 42.5° | 340.5 | 276.7 | 238.2 | 219.1 | 217.5 |
| 45° | 316.5 | 250.7 | 211.9 | 192.8 | 191.3 |
| 47.5° | 290.2 | 223.3 | 184.3 | 166.7 | 164.3 |
| 50° | 261.4 | 193.5 | 156.2 | 138.9 | 136.7 |
| 52.5° | 227.7 | 160.9 | 126.4 | 110.8 | 109.4 |
| 55° | 188.2 | 128.2 | 100.6 | 89.3 | 87.9 |
| 57.5° | 146.4 | 97.6 | 80.0 | 74.4 | 72.2 |
| 60° | 106.2 | 74.2 | 63.7 | 61.0 | 59.8 |
| 62.5° | 72.2 | 55.4 | 51.3 | 50.5 | 49.6 |
| 65° | 49.0 | 43.4 | 42.2 | 42.4 | 41.8 |
| 67.5° | 38.6 | 36.4 | 35.7 | 36.1 | 35.9 |
| 70° | 33.9 | 32.2 | 32.0 | 32.4 | 32.2 |
| 72.5° | 32.0 | 29.8 | 30.2 | 30.7 | 30.5 |
| 75° | 31.2 | 28.8 | 29.5 | 29.8 | 29.0 |
| 77.5° | 30.3 | 27.3 | 29.3 | 30.0 | 28.3 |
| 80° | 29.1 | 25.9 | 30.7 | 30.3 | 27.1 |
| 82.5° | 26.6 | 22.9 | 30.0 | 27.4 | 24.4 |
| 85° | 21.7 | 17.1 | 33.7 | 24.2 | 17.8 |
| 87.5° | 13.9 | 10.3 | 23.4 | 18.5 | 11.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)