

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: P146515

Luminaire Tested: **OVH-F02-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146515
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: OVH-F02-LED-E-U-T2
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4950.8 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): 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

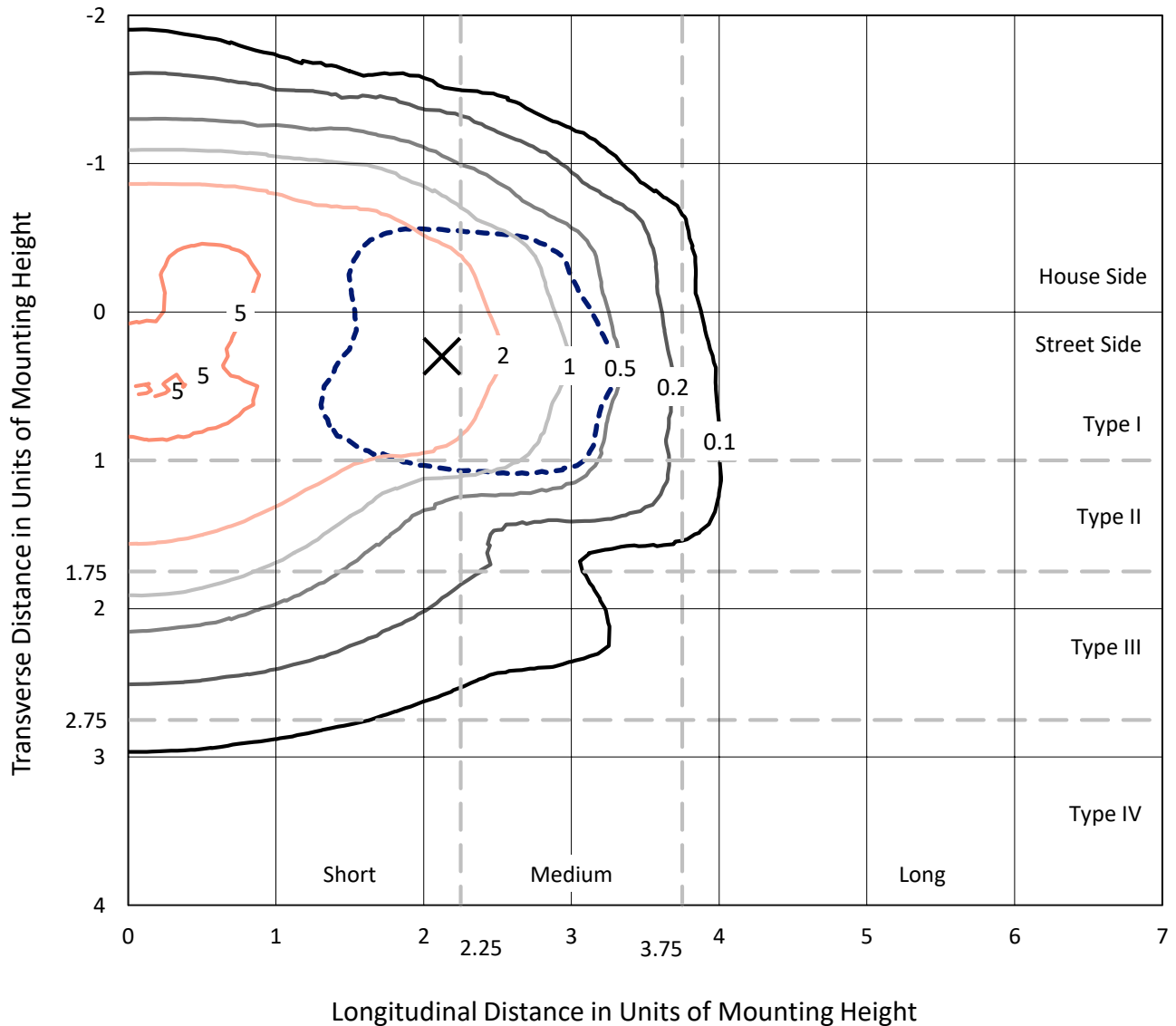


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CATALOG NUMBER: OVH-F02-LED-E-U-T2

Iso-Footcandle Lines of Horizontal Illumination

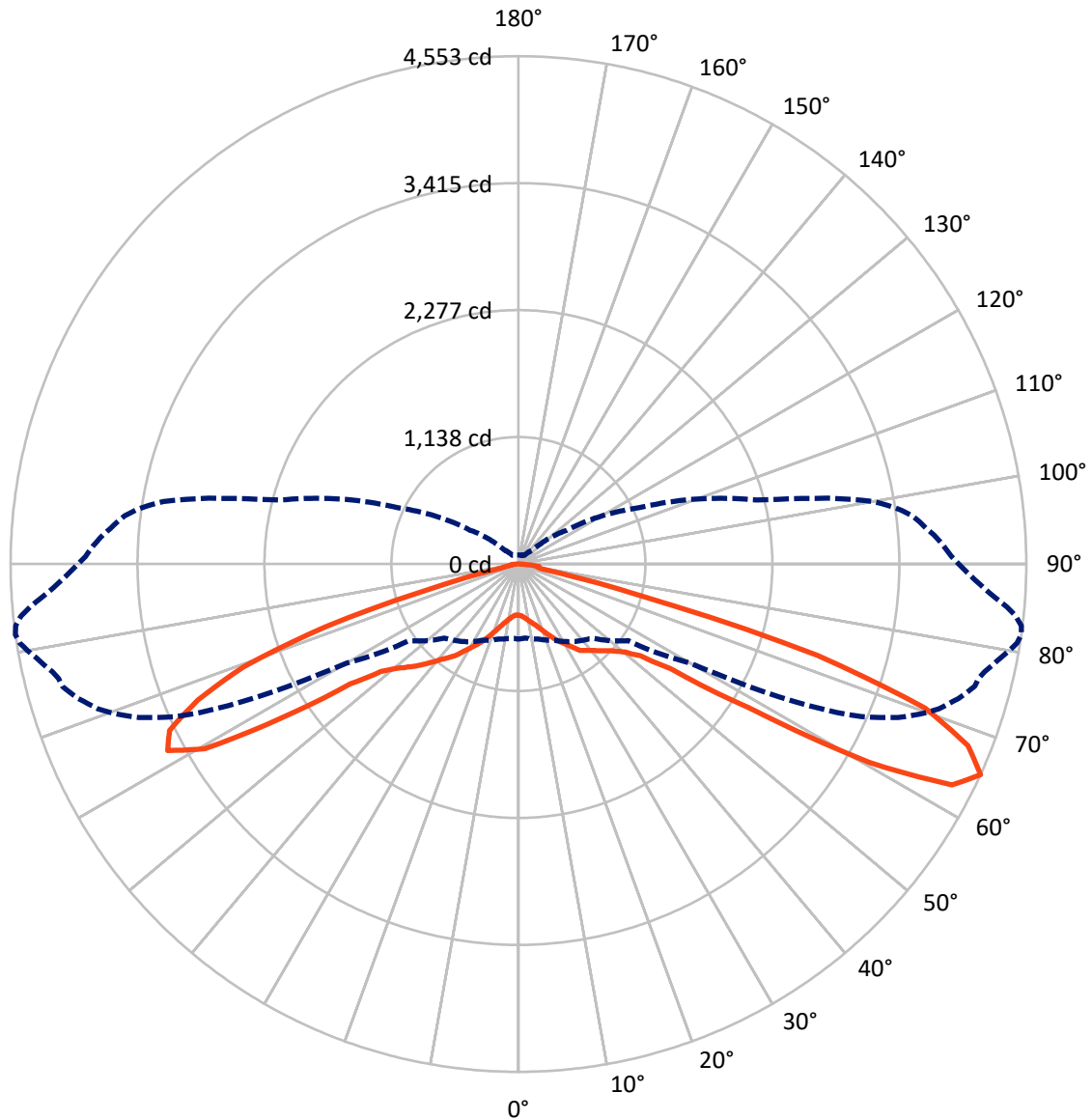
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P146515
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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 | 1822.4 | 0.0 | 1822.4 |
| | % Fixture | 36.8 | 0.0 | 36.8 |
| Street Side | Lumens | 3128.4 | 0.0 | 3128.4 |
| | % Fixture | 63.2 | 0.0 | 63.2 |
| Total | Lumens | 4950.8 | 0.0 | 4950.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.5 | 0.9 |
| 10°-20° | 164.0 | 3.3 |
| 20°-30° | 325.2 | 6.6 |
| 30°-40° | 554.9 | 11.2 |
| 40°-50° | 832.1 | 16.8 |
| 50°-60° | 1158.2 | 23.4 |
| 60°-70° | 1330.6 | 26.9 |
| 70°-80° | 459.2 | 9.3 |
| 80°-90° | 80.3 | 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° | 4950.8 | 100.0 |
| 0°-180° | 4950.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P146515

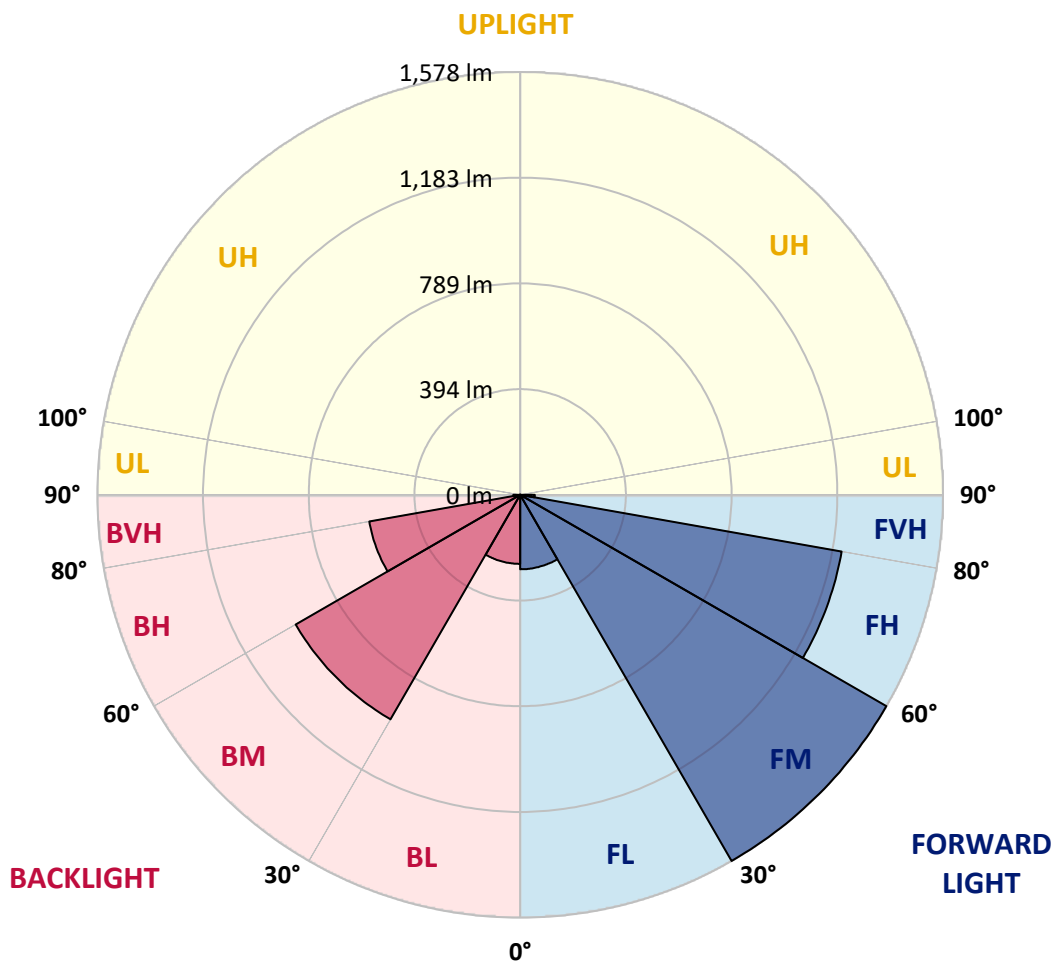
CATALOG NUMBER: OVH-F02-LED-E-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 277.9 | 5.6 | | | |
| FM | (30°-60°) | 1577.9 | 31.9 | | | |
| FH | (60°-80°) | 1218.1 | 24.6 | | | G1/1800 |
| FVH | (80°-90°) | 54.5 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 257.8 | 5.2 | B1/500 | | |
| BM | (30°-60°) | 967.2 | 19.5 | B1/1000 | | |
| BH | (60°-80°) | 571.7 | 11.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 25.8 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P146515

CATALOG NUMBER: OVH-F02-LED-E-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 484.1 | 483.8 | 483.4 | 482.1 | 481.4 | 478.8 | 476.2 | 474.5 | 473.2 | 473.9 | 471.9 |
| 5° | 512.2 | 512.2 | 510.8 | 509.2 | 507.2 | 503.6 | 497.0 | 493.7 | 493.0 | 493.0 | 490.7 |
| 7.5° | 540.9 | 542.9 | 539.2 | 537.9 | 534.6 | 529.0 | 521.4 | 517.1 | 515.8 | 515.8 | 513.8 |
| 10° | 577.2 | 576.2 | 572.3 | 569.6 | 563.0 | 555.4 | 545.2 | 540.2 | 538.2 | 539.9 | 536.6 |
| 12.5° | 615.5 | 615.2 | 609.2 | 604.3 | 595.0 | 582.8 | 569.3 | 562.7 | 561.4 | 561.4 | 559.4 |
| 15° | 654.5 | 654.8 | 648.2 | 639.0 | 624.4 | 607.9 | 592.7 | 586.5 | 584.8 | 584.1 | 581.8 |
| 17.5° | 684.2 | 687.5 | 680.9 | 669.0 | 651.2 | 633.0 | 616.8 | 610.6 | 610.2 | 609.6 | 606.9 |
| 20° | 701.0 | 701.7 | 698.1 | 689.5 | 673.6 | 656.1 | 644.9 | 641.9 | 641.6 | 641.9 | 642.6 |
| 22.5° | 700.4 | 701.4 | 700.0 | 696.7 | 686.5 | 676.9 | 675.6 | 677.3 | 678.3 | 677.3 | 679.6 |
| 25° | 695.1 | 696.4 | 696.4 | 698.1 | 695.4 | 698.7 | 709.3 | 713.9 | 714.2 | 714.9 | 719.9 |
| 27.5° | 706.6 | 708.0 | 707.6 | 710.6 | 712.9 | 724.5 | 743.6 | 751.9 | 752.9 | 755.2 | 759.8 |
| 30° | 760.1 | 760.5 | 754.5 | 754.2 | 756.5 | 765.8 | 785.2 | 794.8 | 793.8 | 798.4 | 801.4 |
| 32.5° | 844.7 | 847.3 | 841.4 | 835.1 | 834.1 | 835.4 | 839.1 | 845.7 | 844.7 | 847.0 | 851.0 |
| 35° | 941.1 | 941.4 | 938.1 | 941.8 | 943.7 | 934.8 | 917.7 | 916.0 | 910.7 | 911.7 | 913.0 |
| 37.5° | 1029.6 | 1031.9 | 1038.2 | 1061.3 | 1074.5 | 1052.7 | 1019.0 | 997.9 | 994.6 | 992.9 | 981.4 |
| 40° | 1112.5 | 1124.0 | 1139.2 | 1169.3 | 1187.4 | 1195.4 | 1147.5 | 1104.9 | 1093.3 | 1088.7 | 1070.5 |
| 42.5° | 1209.6 | 1215.5 | 1233.3 | 1267.7 | 1291.8 | 1327.8 | 1295.7 | 1248.9 | 1235.3 | 1215.5 | 1192.7 |
| 45° | 1291.8 | 1295.7 | 1307.0 | 1336.0 | 1386.6 | 1446.6 | 1450.3 | 1417.6 | 1407.0 | 1387.2 | 1353.9 |
| 47.5° | 1346.9 | 1346.6 | 1354.9 | 1383.2 | 1449.0 | 1540.8 | 1595.2 | 1593.9 | 1581.7 | 1574.8 | 1546.4 |
| 50° | 1368.4 | 1368.1 | 1373.3 | 1405.0 | 1476.7 | 1596.9 | 1717.1 | 1758.4 | 1758.0 | 1760.7 | 1746.2 |
| 52.5° | 1372.4 | 1372.0 | 1372.7 | 1398.1 | 1471.1 | 1616.4 | 1804.9 | 1902.3 | 1916.5 | 1934.4 | 1950.6 |
| 55° | 1342.6 | 1345.9 | 1353.2 | 1379.9 | 1450.0 | 1608.5 | 1870.0 | 2037.4 | 2071.4 | 2107.7 | 2166.5 |
| 57.5° | 1274.0 | 1280.2 | 1305.3 | 1353.2 | 1427.5 | 1589.0 | 1915.2 | 2204.5 | 2273.5 | 2361.3 | 2520.5 |
| 60° | 1175.5 | 1181.2 | 1215.8 | 1279.2 | 1362.1 | 1504.1 | 1862.7 | 2274.5 | 2405.6 | 2558.1 | 2884.4 |
| 62.5° | 1001.5 | 1017.4 | 1035.9 | 1080.8 | 1167.6 | 1281.9 | 1626.9 | 2156.3 | 2359.4 | 2583.2 | 3032.3 |
| 65° | 672.6 | 666.0 | 696.7 | 753.9 | 849.3 | 938.1 | 1198.7 | 1778.5 | 2035.4 | 2343.5 | 2899.2 |
| 67.5° | 416.4 | 417.4 | 438.2 | 494.0 | 566.0 | 635.0 | 759.8 | 1133.6 | 1361.5 | 1654.4 | 2322.7 |
| 70° | 344.1 | 348.0 | 364.9 | 416.7 | 478.1 | 556.1 | 564.0 | 601.0 | 703.0 | 844.7 | 1434.8 |
| 72.5° | 273.1 | 274.7 | 291.9 | 335.2 | 422.0 | 529.0 | 669.7 | 456.7 | 448.8 | 470.2 | 727.8 |
| 75° | 169.4 | 170.7 | 179.3 | 207.0 | 273.7 | 412.1 | 737.4 | 525.0 | 492.0 | 464.3 | 468.9 |
| 77.5° | 87.5 | 90.1 | 94.8 | 107.3 | 143.6 | 230.2 | 580.5 | 665.7 | 628.1 | 590.4 | 516.8 |
| 80° | 49.5 | 49.5 | 53.8 | 56.8 | 68.0 | 93.8 | 295.2 | 720.5 | 787.2 | 803.4 | 721.5 |
| 82.5° | 22.1 | 24.8 | 33.4 | 35.7 | 39.0 | 42.9 | 97.7 | 432.9 | 600.7 | 750.2 | 927.2 |
| 85° | 13.2 | 12.9 | 21.1 | 23.1 | 24.1 | 20.5 | 36.7 | 176.7 | 280.7 | 410.8 | 614.5 |
| 87.5° | 5.3 | 5.6 | 8.9 | 9.6 | 11.2 | 8.3 | 13.9 | 38.0 | 55.8 | 80.9 | 114.3 |
| 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: P146515

CATALOG NUMBER: OVH-F02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 471.5 | 471.5 | 471.2 | 470.9 | 470.5 | 469.6 | 469.2 | 468.6 | 468.2 | 467.2 | 466.9 |
| 5° | 490.4 | 489.4 | 489.0 | 488.4 | 488.1 | 486.7 | 486.7 | 485.4 | 484.4 | 483.1 | 482.8 |
| 7.5° | 512.8 | 511.5 | 510.5 | 509.8 | 509.5 | 507.2 | 507.2 | 505.2 | 504.9 | 503.2 | 502.6 |
| 10° | 535.6 | 534.6 | 533.3 | 532.6 | 532.3 | 531.0 | 529.7 | 528.3 | 527.3 | 526.4 | 525.0 |
| 12.5° | 558.4 | 556.4 | 555.7 | 554.8 | 554.1 | 553.1 | 552.8 | 549.8 | 549.8 | 548.8 | 547.5 |
| 15° | 580.5 | 580.2 | 577.9 | 577.5 | 576.9 | 577.2 | 575.2 | 575.6 | 574.6 | 572.9 | 572.3 |
| 17.5° | 607.6 | 605.3 | 606.3 | 604.6 | 604.9 | 604.3 | 603.6 | 603.3 | 604.0 | 603.6 | 604.3 |
| 20° | 641.3 | 640.6 | 641.6 | 639.3 | 641.6 | 641.9 | 641.3 | 642.9 | 642.3 | 642.9 | 640.9 |
| 22.5° | 681.2 | 678.9 | 678.9 | 680.6 | 681.6 | 684.5 | 682.9 | 684.2 | 685.5 | 686.5 | 685.2 |
| 25° | 721.5 | 720.8 | 722.2 | 723.5 | 725.5 | 728.1 | 727.5 | 727.8 | 730.4 | 732.1 | 732.4 |
| 27.5° | 762.5 | 762.5 | 766.4 | 766.4 | 769.1 | 772.0 | 773.0 | 774.3 | 776.3 | 778.6 | 778.6 |
| 30° | 804.7 | 804.7 | 808.4 | 811.7 | 813.0 | 816.6 | 818.6 | 820.6 | 824.2 | 824.9 | 827.8 |
| 32.5° | 852.9 | 853.9 | 857.6 | 859.5 | 862.5 | 866.8 | 867.5 | 869.8 | 874.1 | 875.4 | 877.7 |
| 35° | 915.7 | 912.4 | 915.7 | 919.3 | 921.0 | 919.6 | 926.9 | 929.9 | 932.8 | 934.5 | 937.5 |
| 37.5° | 980.4 | 974.8 | 975.1 | 974.4 | 970.5 | 972.8 | 972.8 | 972.1 | 974.1 | 973.8 | 975.1 |
| 40° | 1062.3 | 1052.4 | 1049.4 | 1043.1 | 1034.5 | 1029.9 | 1025.0 | 1024.3 | 1019.4 | 1021.3 | 1017.7 |
| 42.5° | 1174.6 | 1159.7 | 1151.8 | 1132.3 | 1121.7 | 1109.2 | 1097.0 | 1086.4 | 1080.8 | 1074.5 | 1069.9 |
| 45° | 1328.8 | 1311.3 | 1292.1 | 1260.7 | 1242.6 | 1217.5 | 1201.3 | 1177.2 | 1161.0 | 1147.5 | 1137.9 |
| 47.5° | 1522.3 | 1492.9 | 1477.4 | 1448.0 | 1416.3 | 1378.3 | 1343.6 | 1309.9 | 1282.5 | 1252.8 | 1229.4 |
| 50° | 1747.1 | 1710.5 | 1698.3 | 1659.3 | 1641.5 | 1598.9 | 1561.9 | 1520.3 | 1477.4 | 1432.5 | 1389.5 |
| 52.5° | 1946.3 | 1942.0 | 1946.9 | 1920.8 | 1920.2 | 1898.7 | 1857.8 | 1809.2 | 1769.3 | 1724.0 | 1667.6 |
| 55° | 2185.0 | 2227.6 | 2236.8 | 2233.2 | 2252.7 | 2252.0 | 2248.1 | 2243.1 | 2211.4 | 2147.4 | 2127.9 |
| 57.5° | 2606.3 | 2654.2 | 2724.9 | 2756.9 | 2827.6 | 2835.8 | 2901.2 | 2875.8 | 2924.3 | 2911.1 | 2920.0 |
| 60° | 3035.3 | 3182.2 | 3316.3 | 3418.3 | 3517.4 | 3607.5 | 3717.8 | 3765.1 | 3800.4 | 3855.5 | 3913.6 |
| 62.5° | 3227.1 | 3412.4 | 3572.2 | 3717.5 | 3840.7 | 3954.9 | 4049.7 | 4139.5 | 4210.2 | 4273.6 | 4322.4 |
| 65° | 3149.5 | 3364.5 | 3520.4 | 3671.9 | 3786.8 | 3893.2 | 3987.3 | 4054.6 | 4125.0 | 4182.4 | 4234.3 |
| 67.5° | 2622.2 | 2908.5 | 3111.9 | 3283.9 | 3428.2 | 3549.4 | 3647.2 | 3740.0 | 3789.8 | 3852.6 | 3880.6 |
| 70° | 1736.9 | 2104.1 | 2391.7 | 2624.2 | 2853.0 | 2990.4 | 3106.3 | 3214.3 | 3271.1 | 3321.9 | 3353.3 |
| 72.5° | 954.0 | 1204.9 | 1512.0 | 1788.4 | 2008.3 | 2188.6 | 2323.7 | 2426.1 | 2484.5 | 2528.1 | 2482.8 |
| 75° | 540.6 | 664.4 | 814.6 | 967.5 | 1134.3 | 1261.4 | 1297.1 | 1340.7 | 1350.9 | 1328.4 | 1270.3 |
| 77.5° | 497.0 | 497.0 | 497.3 | 493.7 | 500.9 | 509.8 | 504.6 | 495.6 | 455.4 | 446.4 | 433.9 |
| 80° | 646.2 | 575.9 | 500.6 | 411.1 | 335.2 | 282.7 | 266.5 | 267.8 | 280.7 | 305.8 | 333.5 |
| 82.5° | 916.0 | 846.7 | 738.0 | 601.6 | 478.8 | 375.8 | 308.1 | 277.0 | 276.7 | 301.8 | 337.8 |
| 85° | 668.0 | 673.6 | 649.5 | 574.6 | 458.3 | 360.9 | 291.6 | 223.9 | 202.1 | 202.1 | 199.4 |
| 87.5° | 116.9 | 120.5 | 104.0 | 93.1 | 65.1 | 45.9 | 41.3 | 36.3 | 36.0 | 37.3 | 34.3 |
| 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: P146515

CATALOG NUMBER: OVH-F02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 466.9 | 466.3 | 465.6 | 465.3 | 465.3 | 464.6 | 464.6 | 463.9 | 464.3 | 463.9 | 463.0 |
| 5° | 482.1 | 481.8 | 480.8 | 479.1 | 478.8 | 477.5 | 477.8 | 476.5 | 476.5 | 475.8 | 474.2 |
| 7.5° | 501.3 | 500.6 | 499.9 | 498.6 | 497.3 | 497.3 | 495.0 | 495.0 | 493.3 | 492.7 | 491.4 |
| 10° | 524.0 | 522.1 | 521.1 | 519.8 | 519.4 | 519.1 | 516.8 | 516.8 | 514.8 | 514.5 | 513.5 |
| 12.5° | 546.5 | 545.2 | 544.2 | 543.5 | 541.9 | 541.5 | 540.6 | 539.6 | 538.6 | 537.9 | 537.6 |
| 15° | 570.9 | 570.3 | 569.3 | 569.3 | 569.3 | 567.6 | 566.6 | 566.0 | 566.0 | 565.0 | 565.6 |
| 17.5° | 602.6 | 603.6 | 602.3 | 601.6 | 600.7 | 602.3 | 600.7 | 600.7 | 601.6 | 601.6 | 599.3 |
| 20° | 641.9 | 643.2 | 641.9 | 642.3 | 641.6 | 641.9 | 642.3 | 642.9 | 644.2 | 641.9 | 642.3 |
| 22.5° | 685.5 | 685.8 | 686.8 | 685.8 | 687.5 | 686.5 | 688.5 | 690.1 | 689.8 | 689.1 | 689.5 |
| 25° | 733.1 | 732.1 | 732.4 | 735.4 | 737.7 | 737.0 | 737.4 | 740.0 | 739.3 | 738.7 | 739.0 |
| 27.5° | 781.3 | 780.6 | 781.6 | 784.2 | 786.9 | 786.6 | 785.9 | 787.9 | 787.9 | 786.2 | 786.9 |
| 30° | 829.2 | 830.1 | 831.8 | 831.8 | 833.1 | 834.4 | 833.4 | 835.8 | 836.1 | 834.8 | 836.4 |
| 32.5° | 879.7 | 881.7 | 881.0 | 885.6 | 885.6 | 886.0 | 886.9 | 886.6 | 889.9 | 887.3 | 888.3 |
| 35° | 940.4 | 941.1 | 945.1 | 948.4 | 950.3 | 952.0 | 952.0 | 953.0 | 954.6 | 953.3 | 955.3 |
| 37.5° | 977.4 | 978.7 | 980.1 | 982.0 | 982.0 | 982.0 | 983.7 | 984.0 | 985.0 | 984.7 | 985.3 |
| 40° | 1018.0 | 1018.4 | 1018.7 | 1019.0 | 1020.3 | 1021.0 | 1019.4 | 1021.7 | 1020.0 | 1020.7 | 1021.7 |
| 42.5° | 1067.2 | 1062.6 | 1063.3 | 1062.3 | 1064.6 | 1061.6 | 1062.3 | 1064.9 | 1063.6 | 1065.6 | 1065.6 |
| 45° | 1124.4 | 1119.1 | 1114.5 | 1111.8 | 1111.8 | 1107.9 | 1108.5 | 1109.5 | 1111.2 | 1113.8 | 1118.4 |
| 47.5° | 1208.9 | 1190.7 | 1181.8 | 1172.6 | 1168.0 | 1163.0 | 1164.7 | 1165.0 | 1165.6 | 1169.9 | 1181.5 |
| 50° | 1347.3 | 1316.9 | 1293.4 | 1265.4 | 1254.8 | 1246.2 | 1241.3 | 1241.6 | 1241.6 | 1250.5 | 1262.1 |
| 52.5° | 1614.7 | 1558.3 | 1502.5 | 1453.6 | 1411.6 | 1391.5 | 1368.1 | 1362.1 | 1362.4 | 1370.0 | 1378.0 |
| 55° | 2076.7 | 1999.1 | 1940.0 | 1831.3 | 1798.3 | 1705.5 | 1656.7 | 1628.6 | 1606.8 | 1617.4 | 1628.9 |
| 57.5° | 2905.5 | 2833.9 | 2787.0 | 2657.2 | 2539.0 | 2505.3 | 2425.1 | 2360.0 | 2333.3 | 2302.2 | 2304.2 |
| 60° | 3922.2 | 3885.3 | 3873.4 | 3797.4 | 3754.8 | 3622.4 | 3611.8 | 3529.6 | 3452.0 | 3385.0 | 3412.4 |
| 62.5° | 4360.1 | 4377.3 | 4391.1 | 4417.9 | 4428.1 | 4415.6 | 4362.4 | 4326.1 | 4262.4 | 4174.5 | 4120.7 |
| 65° | 4249.5 | 4288.8 | 4347.9 | 4403.7 | 4470.4 | 4525.9 | 4553.3 | 4542.7 | 4485.2 | 4394.8 | 4281.8 |
| 67.5° | 3900.8 | 3940.7 | 3991.6 | 4062.2 | 4164.3 | 4272.3 | 4347.5 | 4395.4 | 4349.9 | 4268.3 | 4153.4 |
| 70° | 3351.6 | 3390.6 | 3392.2 | 3491.0 | 3600.9 | 3737.0 | 3870.4 | 3920.6 | 3868.7 | 3814.3 | 3718.2 |
| 72.5° | 2510.3 | 2486.8 | 2508.6 | 2526.8 | 2589.5 | 2675.4 | 2804.8 | 2799.2 | 2719.9 | 2677.7 | 2530.1 |
| 75° | 1179.8 | 1164.0 | 1140.9 | 1125.7 | 1111.2 | 1080.8 | 1095.3 | 1033.2 | 1011.8 | 1020.3 | 892.9 |
| 77.5° | 424.3 | 402.5 | 367.5 | 333.5 | 290.6 | 240.7 | 203.1 | 178.3 | 166.1 | 166.4 | 158.8 |
| 80° | 356.0 | 366.5 | 361.6 | 327.9 | 279.7 | 227.5 | 170.4 | 129.1 | 110.3 | 102.4 | 97.4 |
| 82.5° | 386.0 | 439.2 | 465.6 | 444.8 | 375.8 | 289.3 | 186.2 | 112.6 | 82.6 | 70.7 | 67.7 |
| 85° | 214.0 | 214.3 | 207.7 | 198.5 | 176.0 | 120.9 | 80.6 | 53.5 | 42.9 | 38.3 | 37.0 |
| 87.5° | 36.3 | 34.7 | 34.7 | 32.4 | 28.4 | 27.7 | 24.8 | 23.4 | 20.8 | 19.2 | 18.5 |
| 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: P146515

CATALOG NUMBER: OVH-F02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° | 95° | 96° | 97° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 462.0 | 461.3 | 461.0 | 460.6 | 460.6 | 460.3 | 460.3 | 459.7 | 459.0 | 458.7 | 458.3 |
| 5° | 472.5 | 471.9 | 471.2 | 470.5 | 470.5 | 469.9 | 469.2 | 468.6 | 467.6 | 465.9 | 465.6 |
| 7.5° | 490.4 | 489.0 | 489.0 | 486.7 | 486.7 | 485.4 | 484.4 | 484.4 | 483.1 | 480.5 | 480.1 |
| 10° | 512.5 | 510.2 | 509.2 | 507.9 | 507.2 | 505.9 | 505.9 | 504.6 | 503.9 | 502.9 | 499.6 |
| 12.5° | 536.3 | 534.6 | 533.9 | 532.3 | 531.3 | 531.3 | 530.6 | 528.3 | 530.0 | 527.7 | 526.0 |
| 15° | 565.0 | 564.7 | 561.7 | 562.7 | 562.3 | 562.0 | 562.3 | 560.4 | 560.0 | 560.0 | 558.1 |
| 17.5° | 601.0 | 598.3 | 598.7 | 598.7 | 599.3 | 599.3 | 596.7 | 598.0 | 598.3 | 597.7 | 597.0 |
| 20° | 643.2 | 642.3 | 643.2 | 641.3 | 643.2 | 643.2 | 644.6 | 644.2 | 644.6 | 645.2 | 645.2 |
| 22.5° | 688.5 | 691.1 | 691.5 | 692.1 | 689.8 | 693.8 | 693.8 | 694.4 | 696.1 | 696.1 | 696.7 |
| 25° | 743.3 | 742.0 | 740.3 | 742.6 | 743.3 | 745.9 | 746.6 | 746.6 | 749.2 | 749.2 | 750.2 |
| 27.5° | 788.9 | 790.2 | 789.9 | 791.2 | 790.5 | 794.2 | 795.5 | 799.4 | 798.4 | 800.4 | 803.1 |
| 30° | 835.8 | 838.4 | 837.1 | 837.4 | 839.1 | 841.4 | 844.0 | 848.0 | 848.6 | 853.9 | 855.2 |
| 32.5° | 889.9 | 891.9 | 893.5 | 894.2 | 894.2 | 898.2 | 902.5 | 903.8 | 910.7 | 914.7 | 919.3 |
| 35° | 958.6 | 958.9 | 959.9 | 960.9 | 960.3 | 964.5 | 968.8 | 970.2 | 977.4 | 978.4 | 988.0 |
| 37.5° | 987.7 | 988.3 | 992.3 | 994.3 | 995.6 | 1000.9 | 1008.8 | 1014.7 | 1022.7 | 1030.3 | 1041.2 |
| 40° | 1024.0 | 1027.9 | 1031.6 | 1034.5 | 1039.5 | 1046.8 | 1059.0 | 1064.9 | 1076.8 | 1091.0 | 1101.6 |
| 42.5° | 1069.9 | 1077.1 | 1079.8 | 1085.4 | 1097.6 | 1106.5 | 1118.8 | 1131.6 | 1147.5 | 1164.7 | 1177.2 |
| 45° | 1124.4 | 1131.3 | 1141.2 | 1147.5 | 1161.7 | 1175.9 | 1195.4 | 1206.6 | 1222.8 | 1242.6 | 1256.4 |
| 47.5° | 1190.4 | 1200.0 | 1209.9 | 1222.8 | 1239.6 | 1254.5 | 1274.0 | 1288.5 | 1304.7 | 1320.8 | 1336.0 |
| 50° | 1272.6 | 1286.8 | 1300.0 | 1313.6 | 1336.0 | 1348.6 | 1367.7 | 1382.9 | 1398.1 | 1414.3 | 1428.2 |
| 52.5° | 1383.2 | 1404.7 | 1421.6 | 1430.8 | 1461.2 | 1473.7 | 1497.2 | 1507.7 | 1520.3 | 1534.8 | 1552.6 |
| 55° | 1624.6 | 1658.0 | 1686.4 | 1702.9 | 1749.1 | 1765.6 | 1796.0 | 1811.5 | 1802.9 | 1821.4 | 1853.5 |
| 57.5° | 2322.7 | 2363.6 | 2397.7 | 2420.1 | 2467.3 | 2490.4 | 2492.1 | 2550.2 | 2515.9 | 2549.9 | 2554.8 |
| 60° | 3339.4 | 3371.8 | 3363.5 | 3363.8 | 3349.0 | 3327.5 | 3368.8 | 3306.1 | 3332.5 | 3334.1 | 3275.0 |
| 62.5° | 4021.3 | 3971.8 | 3948.7 | 3910.3 | 3865.8 | 3831.4 | 3808.0 | 3757.5 | 3717.2 | 3685.1 | 3622.7 |
| 65° | 4181.8 | 4095.9 | 4020.0 | 3948.3 | 3882.6 | 3837.0 | 3787.5 | 3733.4 | 3670.3 | 3617.1 | 3556.4 |
| 67.5° | 4026.6 | 3906.4 | 3793.8 | 3699.3 | 3609.5 | 3549.4 | 3477.8 | 3426.3 | 3347.0 | 3277.0 | 3230.8 |
| 70° | 3576.5 | 3410.1 | 3278.7 | 3218.2 | 3129.1 | 3000.0 | 2931.6 | 2867.2 | 2818.7 | 2755.3 | 2727.2 |
| 72.5° | 2508.9 | 2303.5 | 2202.2 | 2206.1 | 2115.7 | 2023.2 | 2025.5 | 1986.2 | 1923.5 | 1921.5 | 1911.9 |
| 75° | 921.9 | 838.7 | 780.3 | 782.9 | 749.2 | 713.3 | 723.2 | 733.7 | 713.3 | 754.9 | 690.5 |
| 77.5° | 146.6 | 142.7 | 141.3 | 138.4 | 131.1 | 136.4 | 132.7 | 139.7 | 140.7 | 148.3 | 148.9 |
| 80° | 93.4 | 89.5 | 88.5 | 86.8 | 86.5 | 86.5 | 85.9 | 85.9 | 85.9 | 86.2 | 85.5 |
| 82.5° | 62.4 | 60.1 | 59.8 | 58.8 | 60.4 | 60.8 | 61.1 | 63.7 | 66.0 | 66.7 | 69.3 |
| 85° | 34.0 | 32.4 | 32.4 | 31.7 | 33.0 | 33.4 | 36.3 | 40.0 | 44.6 | 46.6 | 50.9 |
| 87.5° | 17.2 | 18.2 | 17.8 | 18.5 | 19.5 | 21.8 | 24.1 | 26.4 | 29.1 | 32.7 | 35.7 |
| 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: P146515

CATALOG NUMBER: OVH-F02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° | 115° | 125° | 135° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 457.7 | 457.3 | 457.3 | 456.7 | 456.7 | 456.4 | 455.7 | 455.0 | 452.1 | 448.4 | 446.1 |
| 5° | 464.6 | 463.9 | 463.6 | 463.0 | 462.0 | 462.0 | 461.0 | 459.7 | 454.0 | 448.1 | 444.5 |
| 7.5° | 478.8 | 478.5 | 477.5 | 476.2 | 474.8 | 473.5 | 472.9 | 472.2 | 463.6 | 458.0 | 455.4 |
| 10° | 499.3 | 498.9 | 496.6 | 496.3 | 494.3 | 494.7 | 493.0 | 491.7 | 486.1 | 479.8 | 476.2 |
| 12.5° | 525.4 | 526.7 | 525.4 | 522.4 | 523.1 | 522.1 | 520.4 | 518.8 | 513.8 | 508.9 | 503.2 |
| 15° | 557.7 | 556.1 | 554.8 | 557.4 | 555.1 | 554.8 | 555.7 | 556.1 | 550.1 | 544.8 | 536.9 |
| 17.5° | 598.0 | 598.0 | 597.3 | 598.0 | 596.7 | 597.7 | 597.0 | 597.7 | 595.0 | 587.8 | 576.2 |
| 20° | 643.9 | 646.6 | 646.6 | 645.6 | 645.2 | 647.2 | 648.2 | 644.6 | 645.2 | 639.0 | 618.2 |
| 22.5° | 697.4 | 699.4 | 700.0 | 699.1 | 699.4 | 702.0 | 703.7 | 701.0 | 707.0 | 696.7 | 664.7 |
| 25° | 752.5 | 755.5 | 754.2 | 754.5 | 757.2 | 760.1 | 763.1 | 760.5 | 772.0 | 756.2 | 714.2 |
| 27.5° | 807.0 | 809.7 | 809.0 | 811.0 | 815.3 | 819.3 | 822.6 | 821.6 | 840.7 | 819.9 | 766.4 |
| 30° | 858.5 | 864.8 | 866.1 | 868.5 | 873.7 | 880.3 | 885.6 | 885.3 | 910.1 | 882.0 | 809.0 |
| 32.5° | 921.9 | 928.9 | 931.5 | 936.5 | 946.7 | 951.3 | 957.9 | 958.6 | 983.4 | 936.5 | 845.0 |
| 35° | 995.3 | 1002.2 | 1007.8 | 1011.4 | 1023.0 | 1028.6 | 1035.2 | 1038.2 | 1054.7 | 987.3 | 870.1 |
| 37.5° | 1052.0 | 1058.0 | 1068.9 | 1076.5 | 1086.7 | 1097.9 | 1105.5 | 1109.2 | 1118.4 | 1030.9 | 881.7 |
| 40° | 1114.1 | 1127.0 | 1137.6 | 1149.1 | 1160.4 | 1169.3 | 1176.2 | 1181.8 | 1178.2 | 1067.2 | 876.7 |
| 42.5° | 1192.7 | 1206.3 | 1220.5 | 1230.4 | 1236.3 | 1248.2 | 1251.5 | 1255.5 | 1225.7 | 1083.7 | 854.3 |
| 45° | 1274.6 | 1285.5 | 1297.4 | 1304.7 | 1312.6 | 1318.5 | 1319.5 | 1319.8 | 1261.1 | 1074.2 | 813.6 |
| 47.5° | 1353.5 | 1362.8 | 1371.0 | 1375.0 | 1379.0 | 1379.3 | 1377.6 | 1375.0 | 1279.9 | 1041.8 | 764.8 |
| 50° | 1440.0 | 1445.7 | 1449.3 | 1449.6 | 1453.3 | 1446.3 | 1441.7 | 1429.5 | 1277.9 | 992.3 | 713.3 |
| 52.5° | 1564.5 | 1563.2 | 1558.6 | 1558.3 | 1546.7 | 1533.5 | 1524.9 | 1507.4 | 1264.4 | 938.8 | 653.8 |
| 55° | 1850.5 | 1837.9 | 1852.5 | 1815.5 | 1784.8 | 1764.3 | 1715.8 | 1680.4 | 1277.9 | 888.9 | 585.5 |
| 57.5° | 2537.7 | 2494.7 | 2499.4 | 2439.6 | 2374.2 | 2251.7 | 2179.4 | 2081.6 | 1384.2 | 861.2 | 499.3 |
| 60° | 3262.5 | 3191.8 | 3125.1 | 3019.1 | 2880.1 | 2724.6 | 2584.6 | 2431.7 | 1489.9 | 827.2 | 407.5 |
| 62.5° | 3561.6 | 3470.5 | 3354.6 | 3205.0 | 3026.4 | 2833.5 | 2640.0 | 2465.7 | 1431.8 | 724.8 | 293.6 |
| 65° | 3465.2 | 3356.3 | 3232.8 | 3037.6 | 2834.9 | 2610.6 | 2398.6 | 2214.4 | 1192.4 | 530.0 | 177.3 |
| 67.5° | 3122.8 | 3029.0 | 2876.8 | 2692.5 | 2441.6 | 2216.7 | 2007.0 | 1836.6 | 879.0 | 327.6 | 101.7 |
| 70° | 2629.5 | 2499.7 | 2369.6 | 2192.6 | 1928.1 | 1716.1 | 1520.9 | 1370.4 | 557.7 | 161.8 | 75.0 |
| 72.5° | 1814.8 | 1712.1 | 1608.1 | 1449.6 | 1252.2 | 1106.2 | 938.5 | 814.6 | 291.9 | 87.2 | 69.0 |
| 75° | 707.0 | 695.8 | 683.9 | 611.9 | 544.8 | 436.5 | 383.4 | 345.7 | 121.5 | 75.6 | 68.0 |
| 77.5° | 155.2 | 164.4 | 169.7 | 160.8 | 153.2 | 136.7 | 130.8 | 116.9 | 81.2 | 77.6 | 67.4 |
| 80° | 85.5 | 85.5 | 85.5 | 86.5 | 84.9 | 84.9 | 83.9 | 82.2 | 75.9 | 77.6 | 66.0 |
| 82.5° | 70.0 | 71.0 | 72.3 | 72.6 | 72.3 | 72.6 | 72.0 | 71.7 | 74.3 | 77.9 | 62.7 |
| 85° | 53.5 | 56.8 | 58.8 | 61.4 | 64.1 | 65.7 | 66.4 | 66.7 | 68.4 | 74.0 | 54.8 |
| 87.5° | 38.0 | 40.6 | 44.9 | 45.6 | 48.5 | 52.2 | 53.5 | 55.5 | 54.5 | 56.1 | 25.8 |
| 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: P146515

CATALOG NUMBER: OVH-F02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 444.1 | 441.5 | 440.5 | 440.2 | 439.5 |
| 5° | 441.5 | 439.8 | 438.5 | 437.5 | 438.2 |
| 7.5° | 453.4 | 452.4 | 450.1 | 449.4 | 450.4 |
| 10° | 474.5 | 472.2 | 468.9 | 469.2 | 468.9 |
| 12.5° | 500.9 | 494.7 | 489.4 | 487.1 | 485.4 |
| 15° | 528.0 | 515.8 | 504.9 | 499.9 | 498.0 |
| 17.5° | 558.1 | 537.3 | 520.4 | 511.5 | 509.8 |
| 20° | 589.8 | 561.0 | 539.2 | 528.7 | 527.0 |
| 22.5° | 626.4 | 586.8 | 559.0 | 544.5 | 542.2 |
| 25° | 662.1 | 609.9 | 572.9 | 555.1 | 552.1 |
| 27.5° | 694.4 | 627.4 | 581.2 | 560.0 | 557.1 |
| 30° | 721.5 | 641.3 | 588.1 | 564.0 | 560.7 |
| 32.5° | 739.3 | 648.9 | 590.4 | 564.3 | 560.4 |
| 35° | 745.0 | 643.9 | 580.5 | 550.5 | 547.2 |
| 37.5° | 733.1 | 623.8 | 554.1 | 520.1 | 517.4 |
| 40° | 706.0 | 586.5 | 512.5 | 477.2 | 473.9 |
| 42.5° | 663.7 | 539.2 | 464.3 | 427.0 | 424.0 |
| 45° | 616.8 | 488.7 | 413.1 | 375.8 | 372.8 |
| 47.5° | 565.6 | 435.2 | 359.3 | 324.9 | 320.3 |
| 50° | 509.5 | 377.1 | 304.5 | 270.8 | 266.5 |
| 52.5° | 443.8 | 313.7 | 246.3 | 216.0 | 213.3 |
| 55° | 366.9 | 250.0 | 196.1 | 174.0 | 171.4 |
| 57.5° | 285.3 | 190.2 | 155.9 | 145.0 | 140.7 |
| 60° | 207.0 | 144.6 | 124.2 | 118.9 | 116.6 |
| 62.5° | 140.7 | 108.0 | 100.1 | 98.4 | 96.8 |
| 65° | 95.4 | 84.5 | 82.2 | 82.6 | 81.6 |
| 67.5° | 75.3 | 71.0 | 69.7 | 70.3 | 70.0 |
| 70° | 66.0 | 62.7 | 62.4 | 63.1 | 62.7 |
| 72.5° | 62.4 | 58.1 | 58.8 | 59.8 | 59.4 |
| 75° | 60.8 | 56.1 | 57.5 | 58.1 | 56.5 |
| 77.5° | 59.1 | 53.2 | 57.1 | 58.4 | 55.1 |
| 80° | 56.8 | 50.5 | 59.8 | 59.1 | 52.8 |
| 82.5° | 51.8 | 44.6 | 58.4 | 53.5 | 47.6 |
| 85° | 42.3 | 33.4 | 65.7 | 47.2 | 34.7 |
| 87.5° | 27.1 | 20.1 | 45.6 | 36.0 | 23.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)