

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: P145054

Luminaire Tested: **OVH-F02-LED-E-U-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145054
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
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-SL2-7030
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4415.4 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
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

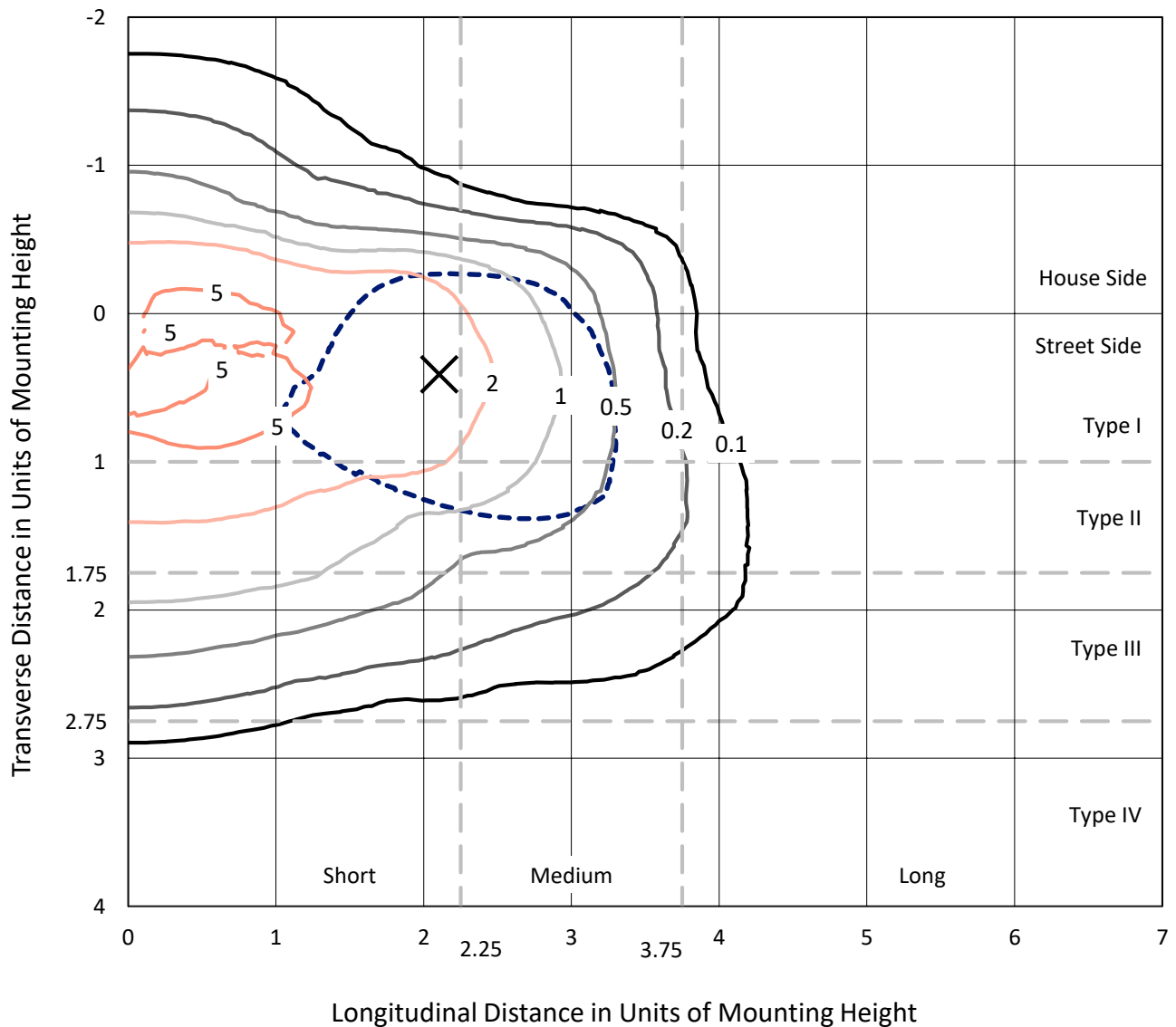


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

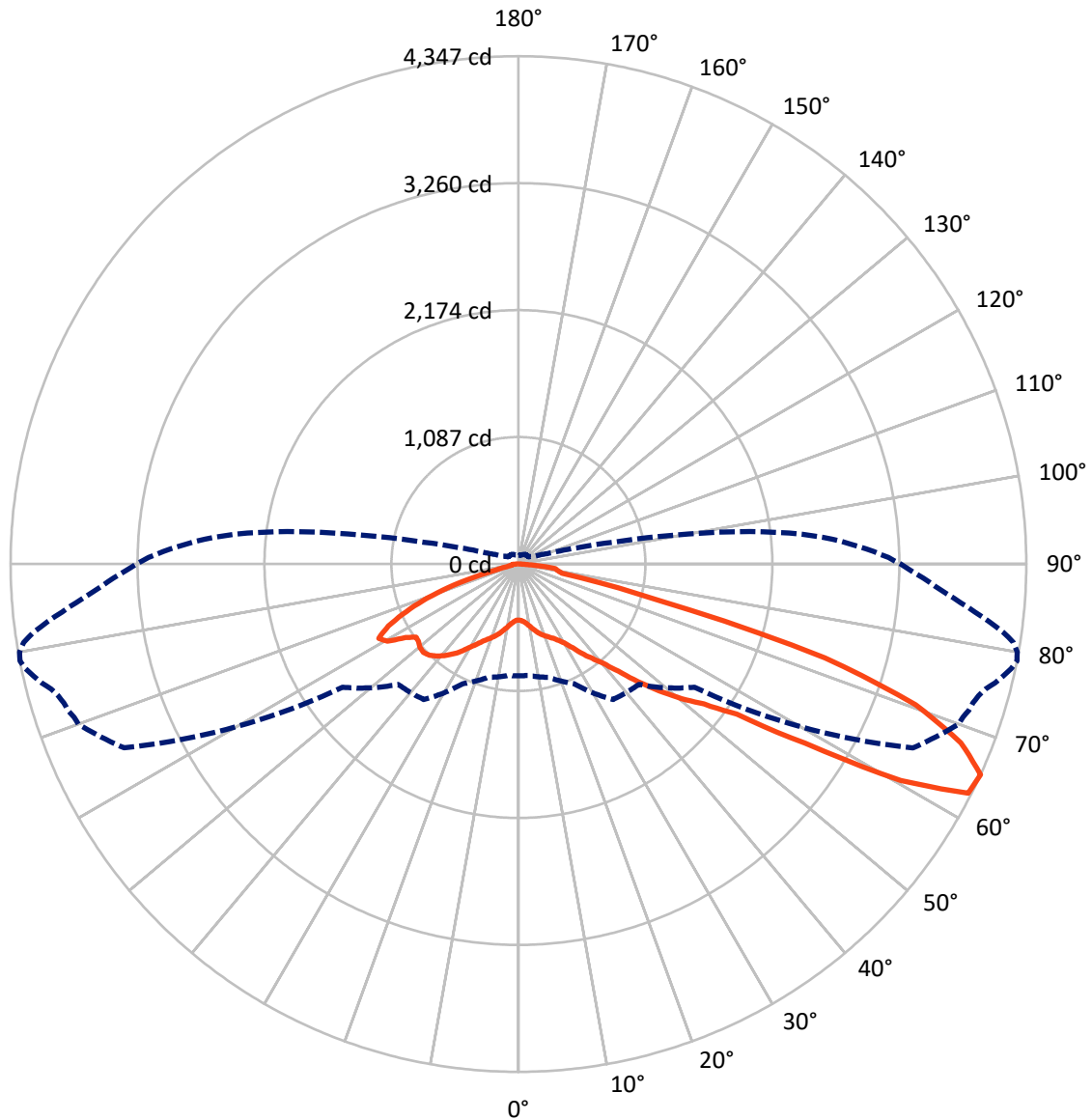


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1002.2 | 0.0 | 1002.2 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 3413.1 | 0.0 | 3413.1 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 4415.4 | 0.0 | 4415.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.6 | 1.1 |
| 10°-20° | 155.0 | 3.5 |
| 20°-30° | 267.3 | 6.1 |
| 30°-40° | 435.9 | 9.9 |
| 40°-50° | 727.7 | 16.5 |
| 50°-60° | 984.0 | 22.3 |
| 60°-70° | 1222.4 | 27.7 |
| 70°-80° | 489.5 | 11.1 |
| 80°-90° | 86.0 | 1.9 |
| 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° | 4415.4 | 100.0 |
| 0°-180° | 4415.4 | 100.0 |



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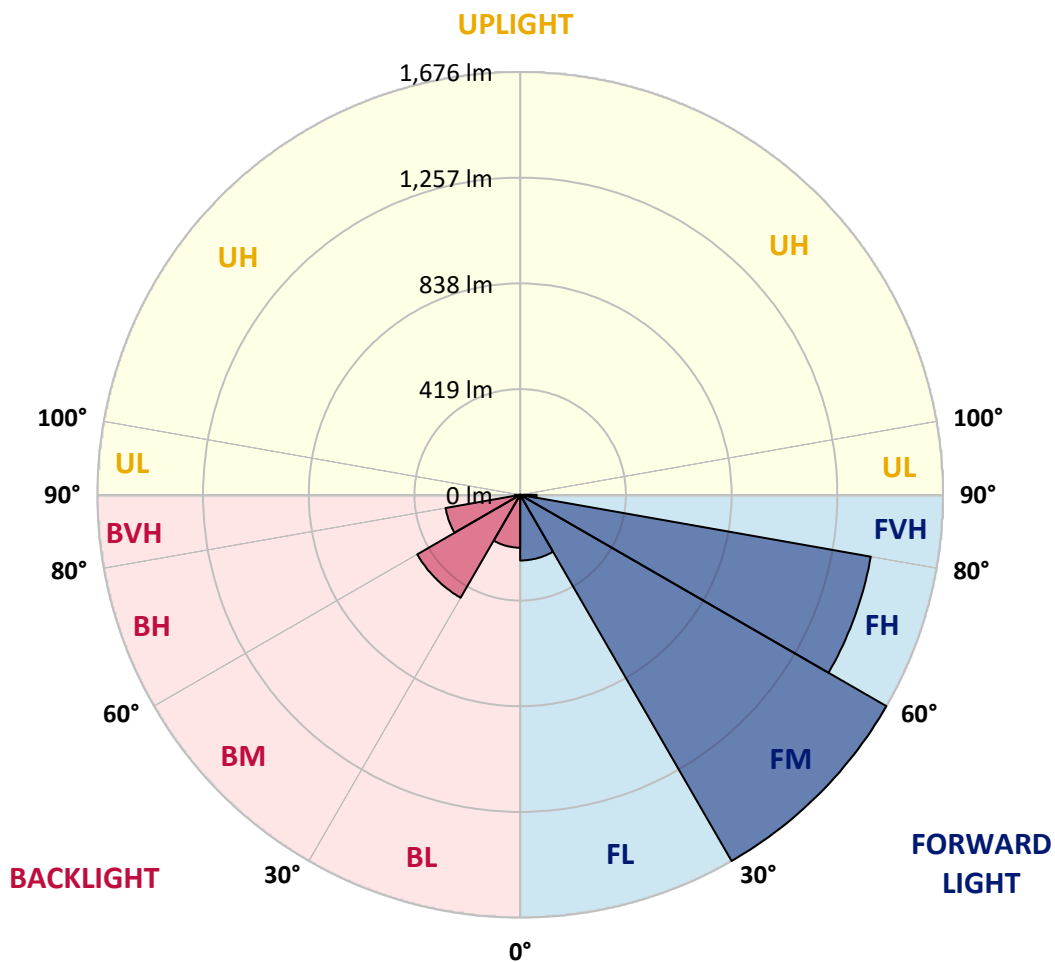
CATALOG NUMBER: OVH-F02-LED-E-U-SL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 260.4 | 5.9 | | | |
| FM | (30°-60°) | 1676.1 | 38.0 | | | |
| FH | (60°-80°) | 1411.4 | 32.0 | | | G1/1800 |
| FVH | (80°-90°) | 65.2 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 209.6 | 4.7 | B1/500 | | |
| BM | (30°-60°) | 471.4 | 10.7 | B1/1000 | | |
| BH | (60°-80°) | 300.4 | 6.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 20.8 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 71° | 72° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 |
| 2.5° | 483.5 | 483.2 | 484.7 | 485.9 | 485.9 | 486.5 | 486.2 | 484.4 | 484.7 | 485.3 | 484.7 |
| 5° | 488.9 | 487.7 | 489.2 | 491.0 | 492.2 | 493.7 | 495.2 | 495.5 | 496.7 | 496.7 | 496.4 |
| 7.5° | 500.7 | 499.7 | 501.9 | 502.5 | 505.2 | 507.6 | 510.6 | 512.7 | 513.9 | 514.5 | 515.4 |
| 10° | 520.9 | 520.3 | 520.9 | 522.1 | 523.3 | 526.0 | 531.1 | 535.6 | 538.4 | 538.4 | 539.6 |
| 12.5° | 545.3 | 542.9 | 543.5 | 541.1 | 541.7 | 547.4 | 553.4 | 561.0 | 565.5 | 566.1 | 566.7 |
| 15° | 564.3 | 563.1 | 562.2 | 558.9 | 561.3 | 568.8 | 578.2 | 589.0 | 592.9 | 596.3 | 596.0 |
| 17.5° | 582.1 | 580.6 | 578.5 | 573.9 | 576.4 | 588.4 | 602.6 | 614.7 | 621.3 | 621.9 | 622.5 |
| 20° | 603.2 | 601.4 | 597.5 | 588.1 | 587.5 | 604.4 | 623.4 | 636.4 | 642.4 | 645.1 | 646.0 |
| 22.5° | 630.0 | 627.6 | 620.4 | 602.3 | 597.5 | 617.4 | 640.0 | 656.0 | 662.3 | 665.0 | 666.5 |
| 25° | 664.4 | 659.6 | 648.1 | 619.8 | 609.8 | 630.6 | 657.8 | 677.1 | 685.8 | 688.5 | 690.4 |
| 27.5° | 695.5 | 691.9 | 678.0 | 644.5 | 627.3 | 648.4 | 679.5 | 704.2 | 716.3 | 719.6 | 722.3 |
| 30° | 731.7 | 726.5 | 715.4 | 679.8 | 656.9 | 675.6 | 715.1 | 746.5 | 761.2 | 761.5 | 767.6 |
| 32.5° | 816.7 | 813.4 | 803.2 | 763.9 | 725.3 | 726.5 | 763.3 | 806.5 | 821.2 | 823.7 | 829.1 |
| 35° | 942.8 | 941.6 | 941.3 | 919.6 | 890.9 | 861.4 | 864.1 | 897.0 | 906.9 | 910.8 | 912.6 |
| 37.5° | 1025.7 | 1036.3 | 1061.9 | 1077.6 | 1070.4 | 1076.7 | 1043.5 | 1003.4 | 997.7 | 993.5 | 995.3 |
| 40° | 1097.2 | 1106.6 | 1158.4 | 1230.8 | 1274.9 | 1305.9 | 1276.7 | 1153.6 | 1107.8 | 1094.5 | 1089.4 |
| 42.5° | 1139.4 | 1150.0 | 1224.2 | 1340.0 | 1452.2 | 1525.8 | 1533.6 | 1362.6 | 1246.2 | 1244.7 | 1225.4 |
| 45° | 1162.4 | 1172.9 | 1261.6 | 1417.5 | 1576.1 | 1708.9 | 1777.6 | 1619.9 | 1448.9 | 1436.2 | 1409.4 |
| 47.5° | 1157.8 | 1167.8 | 1260.1 | 1446.2 | 1649.4 | 1830.4 | 1967.9 | 1879.9 | 1682.6 | 1652.2 | 1615.1 |
| 50° | 1102.6 | 1109.9 | 1206.7 | 1399.4 | 1629.8 | 1881.1 | 2098.2 | 2118.4 | 1947.1 | 1905.8 | 1850.3 |
| 52.5° | 1045.6 | 1058.6 | 1138.8 | 1316.5 | 1540.9 | 1849.7 | 2176.0 | 2335.6 | 2194.1 | 2165.8 | 2094.6 |
| 55° | 1014.9 | 1025.1 | 1090.6 | 1242.3 | 1447.1 | 1742.6 | 2208.3 | 2540.4 | 2494.2 | 2482.7 | 2432.4 |
| 57.5° | 1013.7 | 1023.6 | 1075.8 | 1197.3 | 1370.8 | 1631.0 | 2217.6 | 2856.7 | 2992.1 | 2995.2 | 2980.7 |
| 60° | 1063.1 | 1073.4 | 1117.1 | 1219.1 | 1347.2 | 1535.4 | 2184.2 | 3305.5 | 3604.7 | 3631.2 | 3675.6 |
| 62.5° | 1070.1 | 1074.9 | 1127.7 | 1265.2 | 1432.9 | 1464.0 | 2046.3 | 3679.2 | 4025.7 | 4050.2 | 4074.6 |
| 65° | 957.3 | 957.0 | 1003.7 | 1130.4 | 1415.1 | 1456.7 | 1839.1 | 3725.0 | 4008.8 | 4023.6 | 4054.1 |
| 67.5° | 713.9 | 707.8 | 734.4 | 850.2 | 1122.8 | 1458.5 | 1593.6 | 3379.1 | 3696.4 | 3724.4 | 3734.7 |
| 70° | 367.9 | 377.3 | 395.4 | 466.3 | 713.0 | 1174.1 | 1369.0 | 2851.0 | 3244.9 | 3255.4 | 3291.9 |
| 72.5° | 151.1 | 147.2 | 159.5 | 196.0 | 356.8 | 776.0 | 1132.5 | 2249.9 | 2680.0 | 2672.8 | 2679.4 |
| 75° | 84.1 | 85.4 | 89.0 | 102.2 | 173.4 | 389.7 | 973.0 | 1592.7 | 1822.6 | 1697.7 | 1660.0 |
| 77.5° | 67.6 | 68.2 | 68.5 | 70.9 | 94.7 | 207.8 | 746.8 | 1049.0 | 916.6 | 851.1 | 826.1 |
| 80° | 49.5 | 52.8 | 56.4 | 57.0 | 65.1 | 117.9 | 409.6 | 883.1 | 773.6 | 719.3 | 674.7 |
| 82.5° | 39.8 | 41.3 | 49.2 | 50.4 | 51.9 | 70.3 | 185.5 | 829.4 | 770.6 | 715.1 | 653.6 |
| 85° | 23.8 | 26.5 | 40.1 | 40.4 | 41.0 | 42.8 | 102.5 | 337.8 | 420.1 | 371.3 | 339.9 |
| 87.5° | 8.4 | 10.9 | 19.9 | 16.6 | 21.1 | 17.5 | 44.9 | 113.1 | 139.3 | 132.4 | 117.3 |
| 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: OVH-F02-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 |
| 2.5° | 484.4 | 484.4 | 485.0 | 484.7 | 484.7 | 484.7 | 484.7 | 484.1 | 484.1 | 483.2 | 483.8 |
| 5° | 496.4 | 496.1 | 496.4 | 496.7 | 496.4 | 497.0 | 496.7 | 496.4 | 496.7 | 496.4 | 496.7 |
| 7.5° | 515.7 | 514.2 | 516.3 | 515.1 | 514.8 | 516.6 | 515.7 | 516.6 | 516.9 | 516.6 | 516.3 |
| 10° | 540.2 | 541.1 | 541.1 | 541.1 | 540.5 | 542.3 | 542.6 | 543.2 | 543.5 | 544.7 | 544.7 |
| 12.5° | 568.2 | 568.5 | 569.7 | 569.4 | 570.0 | 572.1 | 573.6 | 573.9 | 574.2 | 575.1 | 573.9 |
| 15° | 598.4 | 599.0 | 599.0 | 601.7 | 600.8 | 603.8 | 604.7 | 604.7 | 605.0 | 608.6 | 608.9 |
| 17.5° | 625.2 | 625.2 | 627.6 | 627.6 | 630.0 | 630.6 | 633.4 | 633.7 | 634.9 | 638.2 | 638.5 |
| 20° | 647.8 | 649.0 | 650.5 | 652.4 | 653.3 | 655.1 | 656.9 | 658.7 | 660.2 | 662.9 | 663.2 |
| 22.5° | 669.2 | 670.5 | 672.9 | 674.1 | 676.2 | 677.4 | 678.9 | 681.0 | 683.4 | 687.0 | 687.9 |
| 25° | 694.0 | 695.2 | 697.9 | 699.7 | 702.1 | 703.9 | 706.6 | 709.4 | 710.9 | 714.5 | 717.2 |
| 27.5° | 725.3 | 729.0 | 732.6 | 733.5 | 735.3 | 739.5 | 743.1 | 746.8 | 750.1 | 751.9 | 755.2 |
| 30° | 771.2 | 771.2 | 778.7 | 778.7 | 782.0 | 786.0 | 788.4 | 792.3 | 798.3 | 800.1 | 804.4 |
| 32.5° | 832.7 | 834.2 | 836.9 | 845.1 | 851.1 | 852.9 | 854.7 | 860.5 | 864.1 | 868.6 | 873.7 |
| 35° | 920.5 | 922.0 | 923.5 | 931.3 | 938.3 | 940.1 | 941.9 | 945.5 | 951.5 | 959.4 | 957.0 |
| 37.5° | 999.2 | 1000.1 | 1004.9 | 1013.7 | 1017.6 | 1022.4 | 1023.9 | 1030.6 | 1033.9 | 1041.1 | 1041.4 |
| 40° | 1093.9 | 1091.8 | 1094.5 | 1104.4 | 1110.5 | 1110.2 | 1115.0 | 1127.1 | 1129.5 | 1132.8 | 1141.2 |
| 42.5° | 1226.0 | 1218.2 | 1226.6 | 1229.9 | 1239.0 | 1244.7 | 1254.3 | 1262.5 | 1268.2 | 1280.9 | 1286.9 |
| 45° | 1396.7 | 1388.6 | 1395.5 | 1397.0 | 1415.7 | 1421.4 | 1435.9 | 1446.8 | 1459.1 | 1473.6 | 1477.8 |
| 47.5° | 1591.2 | 1576.1 | 1567.7 | 1577.1 | 1599.4 | 1608.7 | 1622.9 | 1633.1 | 1646.1 | 1653.7 | 1651.2 |
| 50° | 1816.5 | 1780.3 | 1763.4 | 1758.6 | 1774.6 | 1787.9 | 1809.9 | 1814.7 | 1820.7 | 1820.4 | 1820.7 |
| 52.5° | 2067.8 | 2030.1 | 1994.8 | 1970.3 | 1967.9 | 1985.7 | 1991.1 | 1992.4 | 1990.5 | 1977.0 | 1968.5 |
| 55° | 2395.9 | 2393.2 | 2356.1 | 2305.4 | 2302.1 | 2300.0 | 2268.3 | 2264.4 | 2257.2 | 2236.3 | 2207.7 |
| 57.5° | 2991.2 | 3021.4 | 2997.0 | 2995.8 | 2969.2 | 2951.7 | 2893.5 | 2864.6 | 2834.1 | 2777.7 | 2732.8 |
| 60° | 3679.5 | 3723.2 | 3747.3 | 3757.9 | 3809.8 | 3809.8 | 3762.1 | 3721.1 | 3671.6 | 3585.7 | 3501.8 |
| 62.5° | 4093.9 | 4132.2 | 4167.8 | 4223.6 | 4289.6 | 4318.9 | 4321.3 | 4284.8 | 4222.4 | 4124.3 | 4005.8 |
| 65° | 4067.6 | 4096.0 | 4139.1 | 4204.9 | 4259.5 | 4311.9 | 4347.2 | 4336.1 | 4288.4 | 4190.4 | 4061.3 |
| 67.5° | 3770.6 | 3811.9 | 3867.7 | 3928.3 | 3979.0 | 4028.4 | 4085.4 | 4089.7 | 4077.0 | 3983.8 | 3867.1 |
| 70° | 3312.1 | 3365.2 | 3400.5 | 3476.8 | 3499.7 | 3549.8 | 3607.1 | 3634.6 | 3614.0 | 3542.3 | 3473.8 |
| 72.5° | 2690.9 | 2732.8 | 2738.8 | 2705.6 | 2717.1 | 2729.5 | 2743.3 | 2679.1 | 2654.4 | 2558.5 | 2514.4 |
| 75° | 1631.6 | 1576.4 | 1530.0 | 1483.9 | 1346.0 | 1297.2 | 1222.1 | 1074.0 | 1057.1 | 955.5 | 884.9 |
| 77.5° | 776.0 | 752.8 | 710.9 | 640.6 | 547.1 | 457.5 | 379.7 | 308.5 | 282.0 | 232.2 | 197.8 |
| 80° | 649.6 | 621.9 | 584.2 | 532.0 | 466.6 | 401.4 | 339.9 | 287.1 | 234.0 | 190.6 | 152.3 |
| 82.5° | 596.0 | 547.7 | 494.6 | 449.7 | 403.5 | 359.2 | 317.9 | 270.2 | 242.2 | 195.4 | 159.5 |
| 85° | 301.3 | 263.9 | 213.8 | 180.1 | 152.0 | 123.7 | 107.1 | 91.4 | 81.4 | 64.8 | 56.4 |
| 87.5° | 101.0 | 82.6 | 61.5 | 52.2 | 47.0 | 40.4 | 37.1 | 35.3 | 34.4 | 30.5 | 27.1 |
| 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: OVH-F02-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 |
| 2.5° | 483.8 | 483.8 | 483.8 | 483.8 | 483.5 | 483.5 | 483.5 | 483.5 | 483.5 | 483.5 | 483.8 |
| 5° | 496.1 | 496.1 | 496.4 | 497.3 | 495.5 | 496.1 | 496.7 | 495.8 | 496.7 | 495.8 | 497.0 |
| 7.5° | 516.0 | 516.9 | 516.3 | 517.5 | 516.9 | 518.7 | 517.5 | 516.6 | 517.2 | 517.2 | 517.5 |
| 10° | 544.1 | 545.3 | 544.4 | 545.0 | 545.0 | 546.2 | 544.7 | 545.0 | 545.3 | 544.7 | 545.0 |
| 12.5° | 575.1 | 575.7 | 575.4 | 577.3 | 576.4 | 577.3 | 576.4 | 577.6 | 578.2 | 578.8 | 578.8 |
| 15° | 608.9 | 609.5 | 611.3 | 611.0 | 612.8 | 612.2 | 612.5 | 611.0 | 614.1 | 612.2 | 612.8 |
| 17.5° | 640.0 | 639.7 | 642.1 | 643.0 | 643.3 | 643.6 | 644.5 | 643.3 | 643.6 | 644.5 | 643.9 |
| 20° | 664.1 | 666.2 | 666.8 | 669.2 | 671.1 | 671.7 | 671.4 | 672.3 | 673.5 | 672.3 | 672.3 |
| 22.5° | 689.8 | 692.8 | 693.7 | 695.2 | 697.0 | 697.3 | 699.1 | 700.0 | 700.6 | 700.3 | 700.6 |
| 25° | 720.5 | 722.6 | 724.7 | 727.8 | 729.9 | 730.2 | 731.7 | 732.9 | 733.2 | 732.9 | 734.7 |
| 27.5° | 758.2 | 760.9 | 763.6 | 767.3 | 769.7 | 770.3 | 773.6 | 773.6 | 775.4 | 776.3 | 776.9 |
| 30° | 806.8 | 807.7 | 814.6 | 818.2 | 817.3 | 821.6 | 826.1 | 825.8 | 827.9 | 828.5 | 830.0 |
| 32.5° | 877.3 | 877.3 | 883.4 | 887.9 | 892.7 | 891.2 | 898.2 | 897.0 | 900.3 | 902.1 | 901.2 |
| 35° | 963.0 | 966.0 | 970.5 | 973.3 | 978.4 | 981.1 | 985.9 | 988.6 | 990.1 | 989.8 | 986.5 |
| 37.5° | 1051.4 | 1056.2 | 1058.0 | 1064.6 | 1069.8 | 1074.3 | 1074.9 | 1071.9 | 1073.1 | 1067.1 | 1065.2 |
| 40° | 1152.4 | 1159.3 | 1163.6 | 1173.5 | 1172.9 | 1178.6 | 1179.2 | 1170.5 | 1169.0 | 1161.1 | 1153.0 |
| 42.5° | 1293.6 | 1303.2 | 1306.5 | 1314.1 | 1308.0 | 1310.7 | 1295.7 | 1292.0 | 1280.0 | 1267.3 | 1248.9 |
| 45° | 1483.9 | 1479.0 | 1481.1 | 1479.0 | 1463.0 | 1451.3 | 1438.9 | 1421.1 | 1403.3 | 1378.9 | 1352.7 |
| 47.5° | 1651.2 | 1653.7 | 1638.0 | 1628.0 | 1602.1 | 1585.5 | 1562.9 | 1531.8 | 1510.1 | 1477.2 | 1442.5 |
| 50° | 1813.8 | 1787.0 | 1764.9 | 1742.0 | 1719.1 | 1688.6 | 1654.6 | 1627.1 | 1595.5 | 1554.4 | 1511.9 |
| 52.5° | 1945.9 | 1911.2 | 1884.7 | 1852.1 | 1821.0 | 1787.3 | 1751.7 | 1711.9 | 1670.2 | 1629.2 | 1576.8 |
| 55° | 2179.9 | 2129.6 | 2095.5 | 2038.5 | 2003.2 | 1955.9 | 1928.1 | 1876.5 | 1818.6 | 1764.3 | 1708.5 |
| 57.5° | 2682.1 | 2606.7 | 2567.8 | 2535.5 | 2480.6 | 2402.8 | 2353.4 | 2268.6 | 2186.0 | 2128.1 | 2035.2 |
| 60° | 3438.5 | 3361.9 | 3297.4 | 3221.1 | 3136.9 | 3031.4 | 2984.3 | 2884.5 | 2766.3 | 2670.6 | 2547.9 |
| 62.5° | 3909.9 | 3804.0 | 3699.4 | 3592.3 | 3507.9 | 3425.2 | 3327.8 | 3227.1 | 3110.1 | 2980.1 | 2845.9 |
| 65° | 3928.9 | 3801.9 | 3676.8 | 3567.6 | 3468.7 | 3361.3 | 3269.9 | 3167.7 | 3044.6 | 2910.7 | 2771.4 |
| 67.5° | 3731.7 | 3589.6 | 3455.4 | 3335.7 | 3222.6 | 3123.0 | 3027.4 | 2931.2 | 2799.4 | 2687.2 | 2544.6 |
| 70° | 3338.7 | 3209.0 | 3087.5 | 2951.1 | 2864.6 | 2752.7 | 2659.5 | 2558.1 | 2463.7 | 2358.8 | 2225.2 |
| 72.5° | 2452.3 | 2354.6 | 2215.8 | 2157.9 | 2111.5 | 1993.0 | 1923.6 | 1915.1 | 1854.8 | 1729.1 | 1629.2 |
| 75° | 912.0 | 776.3 | 735.3 | 759.7 | 719.0 | 732.6 | 727.5 | 698.5 | 699.7 | 678.3 | 653.0 |
| 77.5° | 178.5 | 165.9 | 155.9 | 158.6 | 147.5 | 142.7 | 152.9 | 149.9 | 144.5 | 146.0 | 143.6 |
| 80° | 121.5 | 102.8 | 93.2 | 89.6 | 85.1 | 82.9 | 82.3 | 81.4 | 79.6 | 78.7 | 76.0 |
| 82.5° | 119.7 | 89.0 | 70.3 | 60.3 | 56.7 | 54.9 | 53.4 | 53.1 | 52.5 | 52.2 | 53.1 |
| 85° | 47.7 | 38.6 | 35.3 | 32.3 | 31.4 | 30.5 | 30.5 | 30.2 | 29.9 | 30.5 | 31.7 |
| 87.5° | 23.2 | 19.6 | 17.8 | 16.3 | 15.7 | 15.4 | 15.4 | 15.7 | 16.0 | 17.2 | 19.6 |
| 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: P145054

CATALOG NUMBER: OVH-F02-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 95° | 96° | 97° | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 |
| 2.5° | 483.2 | 483.5 | 482.9 | 483.2 | 482.9 | 482.3 | 482.0 | 482.9 | 482.6 | 482.3 | 482.3 |
| 5° | 495.5 | 496.7 | 496.1 | 495.5 | 495.5 | 495.2 | 495.2 | 495.2 | 494.9 | 495.2 | 494.3 |
| 7.5° | 516.9 | 516.6 | 516.6 | 516.0 | 515.4 | 516.0 | 515.7 | 514.8 | 515.1 | 514.5 | 513.6 |
| 10° | 544.4 | 543.5 | 545.0 | 545.0 | 543.8 | 543.5 | 542.9 | 542.0 | 542.0 | 541.1 | 541.1 |
| 12.5° | 577.0 | 576.1 | 578.2 | 576.7 | 574.8 | 574.5 | 572.7 | 572.1 | 573.0 | 572.7 | 572.1 |
| 15° | 610.1 | 610.4 | 611.3 | 611.0 | 608.9 | 608.9 | 606.5 | 606.8 | 605.0 | 604.4 | 602.9 |
| 17.5° | 642.4 | 642.7 | 641.8 | 641.8 | 640.3 | 639.4 | 636.7 | 637.0 | 635.8 | 633.4 | 631.5 |
| 20° | 671.4 | 671.1 | 668.9 | 670.8 | 667.7 | 667.1 | 664.7 | 662.3 | 662.9 | 660.5 | 656.9 |
| 22.5° | 699.7 | 699.1 | 698.5 | 697.6 | 696.1 | 695.5 | 692.8 | 692.5 | 689.5 | 685.8 | 682.8 |
| 25° | 732.6 | 732.3 | 731.4 | 731.7 | 728.7 | 729.0 | 724.1 | 722.9 | 721.1 | 717.2 | 714.8 |
| 27.5° | 775.1 | 775.1 | 772.7 | 771.8 | 770.9 | 769.7 | 765.5 | 762.4 | 757.9 | 753.4 | 748.6 |
| 30° | 827.3 | 826.7 | 826.1 | 823.7 | 820.3 | 818.5 | 811.0 | 806.2 | 800.1 | 791.7 | 784.5 |
| 32.5° | 901.8 | 896.6 | 892.4 | 887.0 | 881.6 | 875.8 | 864.1 | 855.9 | 846.3 | 832.7 | 821.2 |
| 35° | 984.7 | 976.0 | 971.4 | 960.3 | 950.0 | 938.6 | 924.4 | 907.8 | 894.5 | 876.7 | 858.0 |
| 37.5° | 1053.2 | 1046.5 | 1034.5 | 1021.8 | 1007.3 | 985.6 | 969.6 | 951.8 | 928.6 | 909.0 | 886.4 |
| 40° | 1137.6 | 1122.5 | 1105.4 | 1084.2 | 1064.3 | 1039.9 | 1017.9 | 992.3 | 963.9 | 935.6 | 906.0 |
| 42.5° | 1226.3 | 1203.1 | 1174.7 | 1150.3 | 1120.1 | 1088.2 | 1059.5 | 1024.8 | 988.6 | 950.6 | 911.1 |
| 45° | 1316.8 | 1288.1 | 1250.4 | 1215.7 | 1173.8 | 1133.7 | 1092.7 | 1045.3 | 995.9 | 945.2 | 895.4 |
| 47.5° | 1399.7 | 1357.8 | 1315.0 | 1268.2 | 1220.0 | 1168.4 | 1110.2 | 1048.1 | 982.9 | 916.3 | 854.1 |
| 50° | 1464.9 | 1412.4 | 1358.4 | 1304.4 | 1245.3 | 1178.3 | 1105.1 | 1023.9 | 943.7 | 863.8 | 792.3 |
| 52.5° | 1522.5 | 1463.7 | 1397.3 | 1330.3 | 1257.4 | 1175.0 | 1083.3 | 987.7 | 890.0 | 801.6 | 721.4 |
| 55° | 1634.1 | 1560.2 | 1472.7 | 1386.4 | 1294.2 | 1190.4 | 1076.1 | 959.1 | 846.6 | 750.4 | 665.0 |
| 57.5° | 1937.2 | 1837.3 | 1701.9 | 1582.2 | 1465.2 | 1314.1 | 1153.0 | 1008.8 | 865.6 | 751.9 | 656.9 |
| 60° | 2414.6 | 2252.0 | 2097.0 | 1914.5 | 1725.1 | 1517.9 | 1302.0 | 1107.8 | 933.1 | 790.5 | 676.2 |
| 62.5° | 2691.5 | 2519.8 | 2320.5 | 2099.4 | 1853.9 | 1601.5 | 1353.6 | 1126.8 | 935.3 | 779.9 | 653.3 |
| 65° | 2616.7 | 2444.1 | 2224.9 | 1998.7 | 1737.5 | 1479.3 | 1233.2 | 1015.5 | 829.7 | 686.1 | 564.9 |
| 67.5° | 2394.7 | 2214.3 | 2008.3 | 1757.4 | 1507.7 | 1268.5 | 1044.1 | 839.0 | 674.7 | 540.8 | 433.7 |
| 70° | 2071.7 | 1911.2 | 1712.8 | 1481.4 | 1239.3 | 1024.2 | 835.1 | 650.2 | 511.2 | 388.5 | 304.0 |
| 72.5° | 1537.5 | 1395.5 | 1271.5 | 1078.2 | 900.9 | 732.3 | 578.2 | 452.4 | 332.7 | 251.5 | 193.6 |
| 75° | 645.4 | 597.5 | 577.3 | 506.4 | 440.3 | 361.0 | 271.7 | 216.5 | 175.5 | 149.3 | 118.5 |
| 77.5° | 156.5 | 156.5 | 147.2 | 137.8 | 126.7 | 114.6 | 101.3 | 90.5 | 85.1 | 80.2 | 76.3 |
| 80° | 76.0 | 75.4 | 73.0 | 72.7 | 70.6 | 67.9 | 66.4 | 64.2 | 63.3 | 62.1 | 61.5 |
| 82.5° | 53.4 | 53.1 | 52.2 | 53.4 | 53.1 | 54.3 | 54.9 | 55.2 | 55.2 | 55.5 | 55.8 |
| 85° | 33.8 | 35.0 | 37.4 | 40.4 | 43.1 | 46.4 | 49.5 | 51.9 | 53.7 | 55.2 | 56.4 |
| 87.5° | 21.4 | 24.4 | 26.2 | 30.8 | 35.3 | 40.4 | 46.1 | 48.6 | 50.7 | 51.0 | 49.2 |
| 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: P145054

CATALOG NUMBER: OVH-F02-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 106° | 107° | 108° | 109° | 110° | 115° | 125° | 135° | 145° | 155° | 165° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 |
| 2.5° | 482.3 | 482.0 | 482.6 | 482.0 | 482.0 | 481.7 | 480.7 | 479.8 | 478.9 | 478.6 | 477.7 |
| 5° | 494.0 | 494.0 | 494.6 | 493.4 | 493.7 | 492.5 | 489.8 | 486.8 | 484.1 | 481.7 | 478.9 |
| 7.5° | 513.9 | 513.0 | 513.3 | 513.0 | 512.4 | 510.0 | 504.0 | 496.4 | 489.2 | 481.7 | 475.6 |
| 10° | 540.5 | 538.7 | 538.7 | 538.0 | 537.1 | 533.8 | 521.2 | 506.1 | 491.0 | 477.4 | 467.5 |
| 12.5° | 570.0 | 570.3 | 567.9 | 566.4 | 564.9 | 558.0 | 539.0 | 514.8 | 491.0 | 469.3 | 453.3 |
| 15° | 600.8 | 600.5 | 597.8 | 596.9 | 593.5 | 583.3 | 554.6 | 519.4 | 485.3 | 453.3 | 429.5 |
| 17.5° | 628.5 | 627.3 | 624.6 | 622.8 | 619.2 | 605.6 | 565.2 | 517.2 | 470.2 | 428.3 | 398.4 |
| 20° | 653.9 | 652.4 | 649.9 | 646.6 | 643.0 | 623.4 | 569.1 | 506.4 | 446.4 | 398.4 | 368.3 |
| 22.5° | 680.1 | 676.8 | 674.1 | 669.5 | 665.6 | 639.4 | 566.4 | 487.1 | 419.2 | 365.2 | 333.0 |
| 25° | 709.4 | 705.4 | 699.7 | 694.3 | 688.2 | 652.4 | 558.9 | 463.0 | 386.6 | 329.3 | 296.8 |
| 27.5° | 741.0 | 735.3 | 727.8 | 720.8 | 711.2 | 662.0 | 545.9 | 436.1 | 351.1 | 293.8 | 260.0 |
| 30° | 774.5 | 763.9 | 754.6 | 744.0 | 731.7 | 666.5 | 527.2 | 402.9 | 311.9 | 257.6 | 223.8 |
| 32.5° | 807.1 | 792.9 | 779.0 | 763.6 | 746.8 | 664.7 | 500.7 | 363.7 | 272.6 | 223.8 | 195.4 |
| 35° | 840.3 | 819.7 | 800.4 | 779.6 | 759.1 | 655.7 | 464.2 | 320.3 | 235.5 | 195.7 | 175.2 |
| 37.5° | 862.9 | 837.2 | 811.6 | 786.6 | 761.8 | 636.1 | 415.6 | 271.7 | 202.1 | 175.5 | 160.8 |
| 40° | 874.3 | 843.0 | 811.6 | 780.5 | 750.1 | 603.5 | 358.9 | 227.4 | 178.2 | 160.4 | 149.9 |
| 42.5° | 871.0 | 832.1 | 793.2 | 756.4 | 719.0 | 551.6 | 297.4 | 190.9 | 161.7 | 148.7 | 139.3 |
| 45° | 843.6 | 797.1 | 752.8 | 713.9 | 667.1 | 485.0 | 244.3 | 168.3 | 149.0 | 139.0 | 130.3 |
| 47.5° | 792.0 | 740.1 | 685.8 | 641.8 | 598.1 | 407.8 | 203.3 | 154.1 | 137.8 | 129.7 | 120.9 |
| 50° | 726.2 | 666.2 | 611.9 | 564.3 | 521.5 | 335.7 | 175.2 | 142.1 | 128.8 | 121.8 | 112.5 |
| 52.5° | 653.9 | 589.3 | 539.9 | 489.8 | 447.9 | 280.2 | 155.6 | 128.8 | 120.0 | 112.8 | 105.3 |
| 55° | 593.8 | 534.1 | 483.8 | 433.4 | 391.2 | 245.2 | 139.3 | 118.5 | 111.9 | 104.4 | 98.3 |
| 57.5° | 577.9 | 509.7 | 454.8 | 407.2 | 363.7 | 223.8 | 127.6 | 109.2 | 104.7 | 98.9 | 92.3 |
| 60° | 584.5 | 509.4 | 447.9 | 395.7 | 350.2 | 206.6 | 118.8 | 102.8 | 99.2 | 94.1 | 87.2 |
| 62.5° | 560.7 | 481.3 | 419.2 | 363.7 | 320.6 | 184.9 | 112.5 | 99.8 | 97.4 | 90.5 | 82.6 |
| 65° | 477.7 | 405.0 | 345.3 | 297.4 | 260.3 | 155.6 | 107.4 | 102.5 | 100.1 | 88.1 | 79.6 |
| 67.5° | 363.7 | 303.1 | 255.2 | 219.3 | 192.4 | 128.8 | 106.2 | 111.6 | 106.8 | 89.3 | 78.7 |
| 70° | 251.5 | 205.7 | 174.9 | 153.2 | 136.3 | 108.6 | 110.1 | 121.5 | 114.6 | 93.2 | 83.8 |
| 72.5° | 159.5 | 133.3 | 118.2 | 110.1 | 101.9 | 91.7 | 109.2 | 120.3 | 111.0 | 93.8 | 83.8 |
| 75° | 102.2 | 91.4 | 86.3 | 83.2 | 80.8 | 79.9 | 96.2 | 98.9 | 89.3 | 81.4 | 78.1 |
| 77.5° | 72.4 | 70.6 | 69.7 | 69.4 | 69.7 | 71.8 | 79.6 | 74.5 | 64.8 | 65.1 | 67.0 |
| 80° | 61.2 | 61.2 | 60.6 | 60.9 | 61.5 | 62.4 | 63.6 | 54.9 | 49.8 | 53.7 | 59.7 |
| 82.5° | 56.1 | 57.0 | 57.6 | 58.2 | 59.1 | 57.9 | 54.0 | 41.6 | 40.1 | 52.2 | 58.5 |
| 85° | 57.0 | 57.0 | 57.3 | 57.9 | 58.2 | 52.2 | 44.9 | 31.4 | 30.8 | 58.5 | 55.2 |
| 87.5° | 48.9 | 48.3 | 46.1 | 44.6 | 42.5 | 35.9 | 29.9 | 17.5 | 18.1 | 36.2 | 38.6 |
| 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: P145054

CATALOG NUMBER: OVH-F02-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 175° | 180° |
|-------|-------|-------|
| 0° | 479.8 | 479.8 |
| 2.5° | 477.4 | 477.4 |
| 5° | 477.4 | 477.4 |
| 7.5° | 473.5 | 472.3 |
| 10° | 462.0 | 460.5 |
| 12.5° | 444.6 | 443.0 |
| 15° | 417.7 | 415.9 |
| 17.5° | 384.2 | 381.2 |
| 20° | 349.2 | 345.0 |
| 22.5° | 314.3 | 310.9 |
| 25° | 278.4 | 275.4 |
| 27.5° | 243.1 | 240.1 |
| 30° | 210.5 | 209.3 |
| 32.5° | 186.4 | 185.2 |
| 35° | 168.6 | 168.0 |
| 37.5° | 156.5 | 155.9 |
| 40° | 146.0 | 145.4 |
| 42.5° | 136.3 | 135.4 |
| 45° | 126.7 | 127.0 |
| 47.5° | 117.0 | 116.7 |
| 50° | 108.6 | 108.6 |
| 52.5° | 101.6 | 101.3 |
| 55° | 95.3 | 95.0 |
| 57.5° | 89.0 | 88.7 |
| 60° | 83.5 | 82.6 |
| 62.5° | 78.4 | 77.8 |
| 65° | 75.1 | 74.8 |
| 67.5° | 72.7 | 71.8 |
| 70° | 72.1 | 69.7 |
| 72.5° | 70.3 | 67.3 |
| 75° | 66.0 | 64.5 |
| 77.5° | 58.2 | 56.4 |
| 80° | 44.9 | 41.6 |
| 82.5° | 37.7 | 32.6 |
| 85° | 27.7 | 25.6 |
| 87.5° | 20.2 | 16.0 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)