

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: P161621

Luminaire Tested: **OVF-F02-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161621
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-F02-LED-E-U-5WQ-7030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4622.8 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

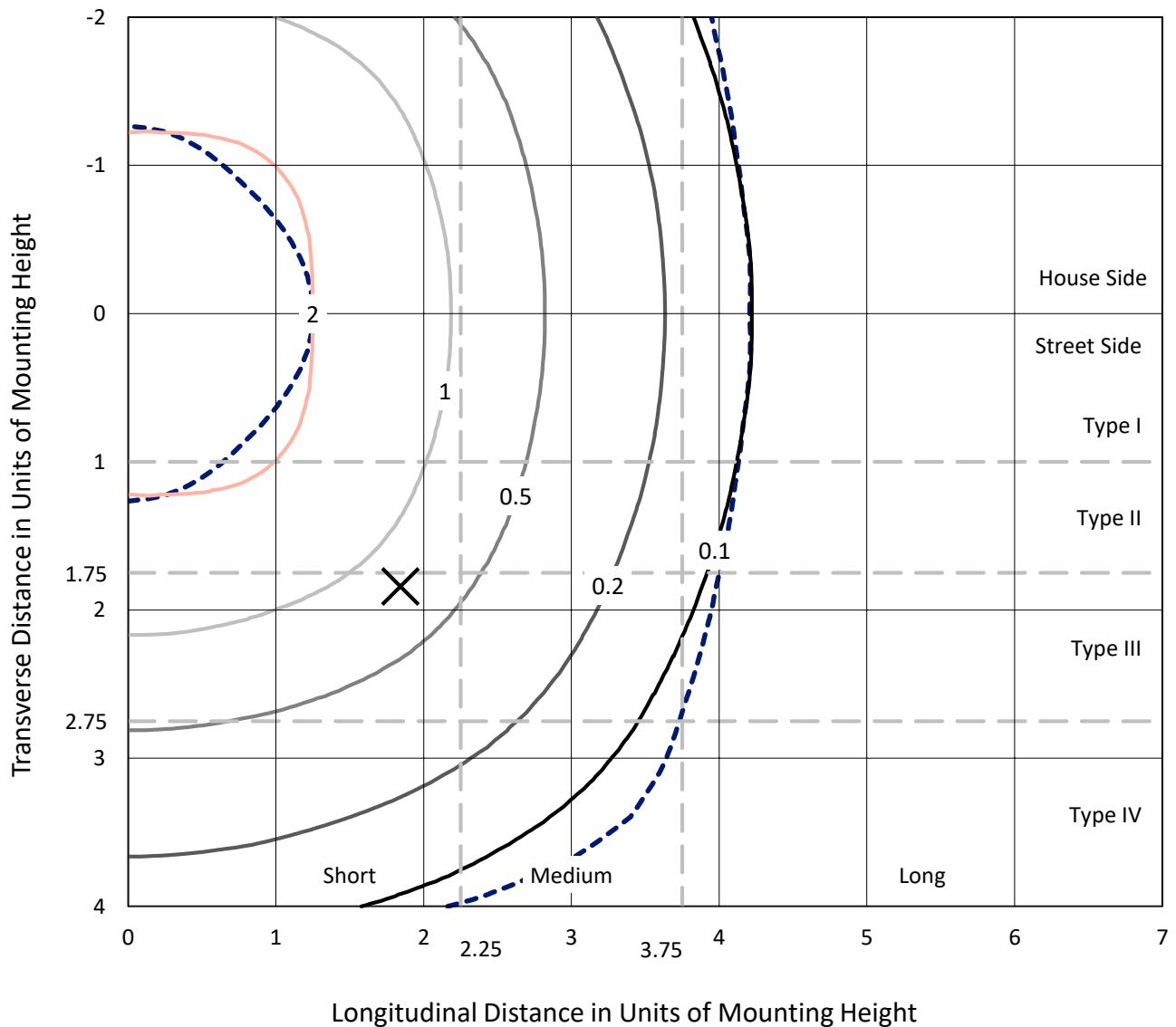
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

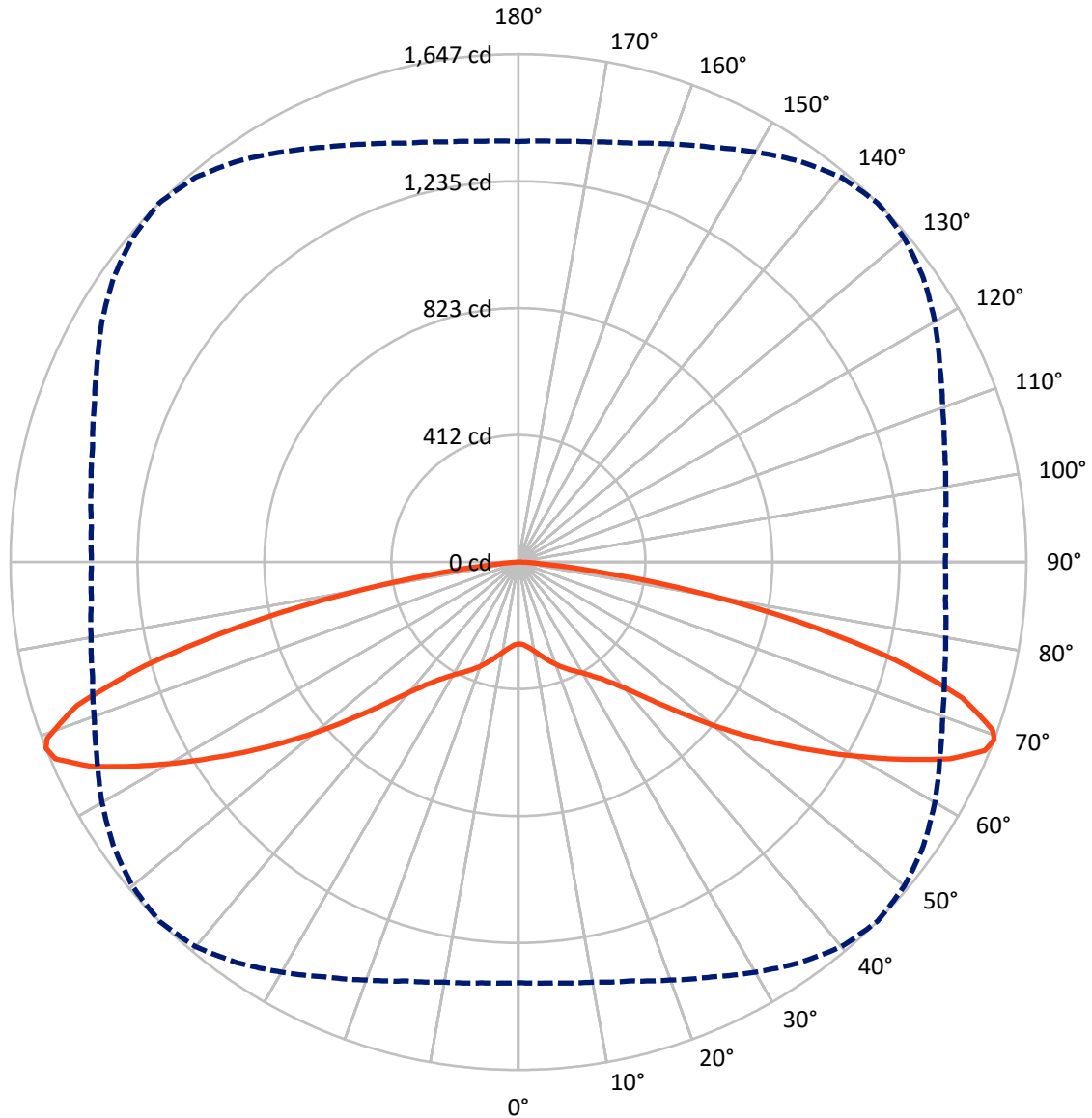
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2311.4 | 0.0 | 2311.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2311.4 | 0.0 | 2311.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4622.8 | 0.0 | 4622.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.8 | 0.6 |
| 10°-20° | 92.4 | 2.0 |
| 20°-30° | 178.1 | 3.9 |
| 30°-40° | 291.8 | 6.3 |
| 40°-50° | 507.4 | 11.0 |
| 50°-60° | 901.3 | 19.5 |
| 60°-70° | 1399.3 | 30.3 |
| 70°-80° | 1114.9 | 24.1 |
| 80°-90° | 110.9 | 2.4 |
| 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° | 4622.8 | 100.0 |
| 0°-180° | 4622.8 | 100.0 |



REPORT NUMBER: P161621

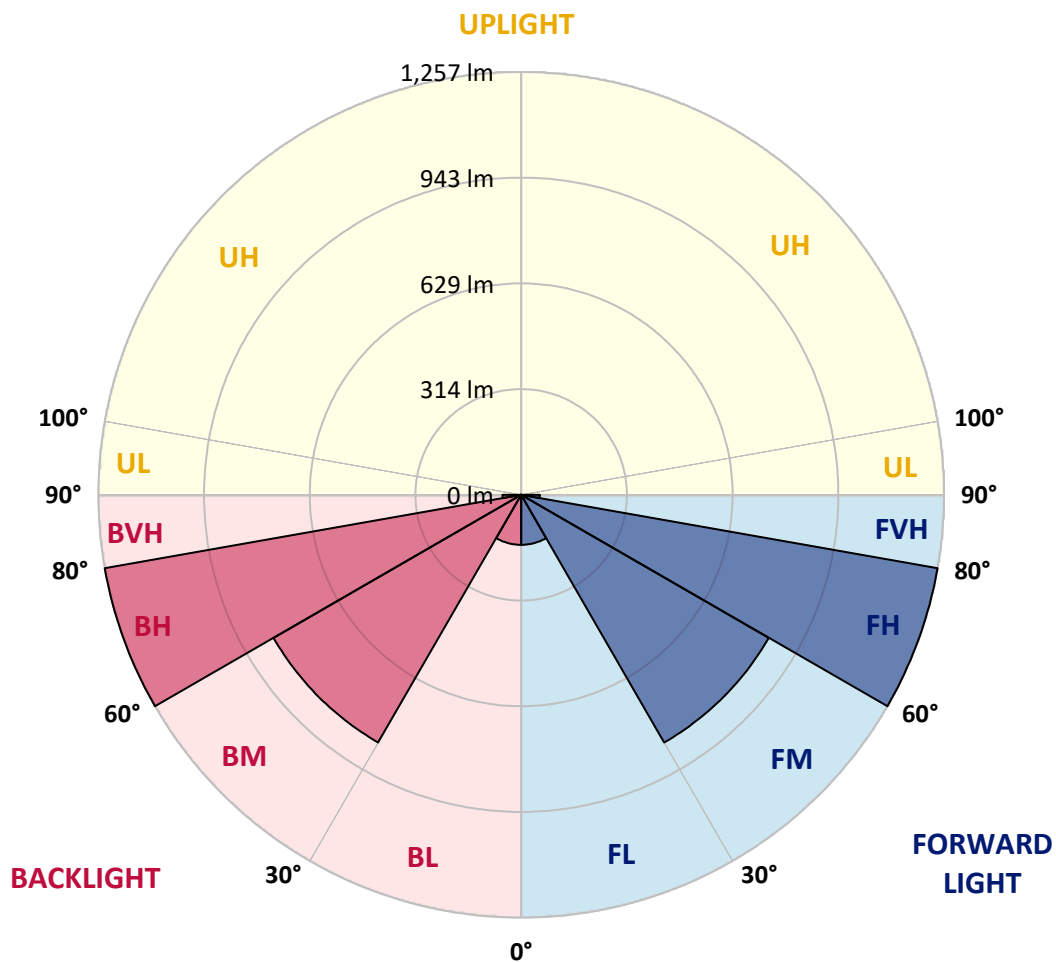
CATALOG NUMBER: OVF-F02-LED-E-U-5WQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 148.6 | 3.2 | | | |
| FM | (30°-60°) | 850.2 | 18.4 | | | |
| FH | (60°-80°) | 1257.1 | 27.2 | | | G1/1800 |
| FVH | (80°-90°) | 55.4 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 148.6 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 850.2 | 18.4 | B1/1000 | | |
| BH | (60°-80°) | 1257.1 | 27.2 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 55.4 | 1.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P161621

CATALOG NUMBER: OVF-F02-LED-E-U-5WQ-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 |
| 2.5° | 267.8 | 267.8 | 267.8 | 267.5 | 267.5 | 267.2 | 267.5 | 267.2 | 267.2 | 267.2 | 267.2 |
| 5° | 274.8 | 274.2 | 274.2 | 273.9 | 274.5 | 274.5 | 273.9 | 274.2 | 273.9 | 274.2 | 274.2 |
| 7.5° | 283.5 | 283.5 | 283.5 | 283.2 | 283.8 | 283.5 | 283.2 | 283.5 | 283.5 | 283.2 | 283.2 |
| 10° | 294.4 | 294.7 | 294.4 | 294.4 | 295.3 | 295.0 | 295.3 | 295.3 | 295.6 | 295.3 | 295.3 |
| 12.5° | 307.0 | 307.0 | 307.3 | 307.6 | 307.9 | 308.2 | 309.1 | 308.8 | 309.4 | 308.8 | 308.8 |
| 15° | 321.8 | 322.4 | 321.8 | 321.8 | 322.7 | 323.3 | 323.6 | 323.6 | 324.2 | 323.9 | 323.3 |
| 17.5° | 337.5 | 337.8 | 337.5 | 337.2 | 338.1 | 339.0 | 339.3 | 339.3 | 340.2 | 339.6 | 339.6 |
| 20° | 353.5 | 353.8 | 353.2 | 352.9 | 354.1 | 354.1 | 354.7 | 355.0 | 355.9 | 356.2 | 355.3 |
| 22.5° | 368.3 | 368.6 | 368.3 | 367.9 | 369.2 | 369.2 | 370.1 | 370.4 | 371.6 | 371.3 | 371.3 |
| 25° | 382.7 | 382.7 | 382.4 | 382.4 | 383.6 | 383.9 | 384.8 | 385.4 | 386.6 | 386.6 | 386.6 |
| 27.5° | 396.0 | 396.3 | 395.7 | 395.4 | 397.8 | 398.7 | 399.3 | 400.5 | 401.4 | 402.0 | 401.7 |
| 30° | 411.1 | 411.1 | 410.8 | 411.7 | 413.2 | 414.4 | 415.6 | 417.4 | 419.2 | 418.6 | 418.6 |
| 32.5° | 428.9 | 429.5 | 429.2 | 430.4 | 432.2 | 434.0 | 435.5 | 437.6 | 438.5 | 440.0 | 438.8 |
| 35° | 452.7 | 453.9 | 453.3 | 454.5 | 456.0 | 457.2 | 460.5 | 462.7 | 464.2 | 465.1 | 464.5 |
| 37.5° | 482.6 | 482.0 | 483.2 | 483.5 | 486.5 | 488.0 | 491.9 | 494.9 | 497.3 | 498.2 | 497.6 |
| 40° | 519.7 | 518.7 | 520.3 | 521.8 | 525.7 | 527.2 | 531.7 | 536.2 | 539.6 | 540.8 | 540.2 |
| 42.5° | 564.0 | 565.2 | 567.6 | 569.7 | 575.1 | 579.4 | 584.5 | 591.1 | 594.8 | 596.3 | 594.1 |
| 45° | 622.2 | 620.1 | 624.6 | 630.0 | 633.1 | 642.4 | 650.8 | 657.8 | 663.8 | 666.2 | 663.8 |
| 47.5° | 688.5 | 688.2 | 693.7 | 700.3 | 708.2 | 716.9 | 726.8 | 735.9 | 746.5 | 747.1 | 744.0 |
| 50° | 761.8 | 767.9 | 770.9 | 777.5 | 792.0 | 802.9 | 815.5 | 829.1 | 838.7 | 841.8 | 836.3 |
| 52.5° | 850.2 | 854.7 | 856.5 | 867.7 | 881.0 | 894.2 | 912.0 | 928.3 | 939.5 | 940.7 | 938.0 |
| 55° | 946.1 | 949.7 | 953.0 | 966.6 | 981.1 | 992.9 | 1015.5 | 1031.5 | 1042.6 | 1046.8 | 1045.0 |
| 57.5° | 1045.3 | 1048.7 | 1052.9 | 1067.7 | 1082.4 | 1099.0 | 1120.4 | 1139.1 | 1152.1 | 1159.9 | 1157.8 |
| 60° | 1155.4 | 1155.4 | 1165.1 | 1179.8 | 1191.9 | 1211.5 | 1233.8 | 1255.5 | 1269.7 | 1282.1 | 1278.8 |
| 62.5° | 1271.2 | 1274.6 | 1283.9 | 1296.0 | 1308.6 | 1326.7 | 1352.1 | 1378.0 | 1399.7 | 1409.1 | 1408.8 |
| 65° | 1359.0 | 1365.0 | 1377.4 | 1391.3 | 1412.4 | 1433.8 | 1465.8 | 1498.0 | 1524.3 | 1537.8 | 1537.8 |
| 67.5° | 1384.6 | 1388.6 | 1403.9 | 1425.0 | 1455.5 | 1489.6 | 1533.0 | 1578.0 | 1613.8 | 1631.6 | 1620.5 |
| 69° | 1364.1 | 1369.9 | 1383.4 | 1406.3 | 1442.5 | 1484.2 | 1535.7 | 1586.7 | 1628.3 | 1646.7 | 1633.8 |
| 70° | 1340.3 | 1346.6 | 1360.2 | 1382.8 | 1420.2 | 1464.6 | 1516.1 | 1571.0 | 1615.7 | 1631.3 | 1616.6 |
| 72.5° | 1243.2 | 1251.0 | 1260.7 | 1280.3 | 1314.1 | 1355.7 | 1402.1 | 1450.4 | 1493.2 | 1505.6 | 1487.2 |
| 75° | 1077.6 | 1079.1 | 1083.9 | 1098.4 | 1110.5 | 1140.0 | 1179.5 | 1217.9 | 1250.1 | 1257.4 | 1237.8 |
| 77.5° | 762.7 | 754.6 | 746.5 | 758.8 | 768.5 | 806.5 | 849.3 | 880.7 | 914.4 | 924.7 | 904.8 |
| 80° | 334.5 | 331.5 | 342.9 | 359.2 | 401.7 | 427.1 | 469.0 | 513.9 | 542.6 | 576.1 | 540.2 |
| 82.5° | 66.0 | 69.7 | 80.5 | 99.5 | 122.8 | 154.4 | 181.9 | 212.9 | 241.0 | 253.6 | 240.7 |
| 85° | 26.8 | 29.3 | 33.2 | 37.1 | 39.8 | 44.6 | 52.5 | 65.1 | 71.8 | 72.7 | 69.1 |
| 87.5° | 11.2 | 13.0 | 17.5 | 20.8 | 21.1 | 20.2 | 20.8 | 21.4 | 17.5 | 14.2 | 17.8 |
| 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: P161621

CATALOG NUMBER: OVF-F02-LED-E-U-5WQ-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 |
| 2.5° | 267.2 | 267.5 | 267.2 | 267.5 | 267.2 | 267.2 | 267.5 | 267.2 |
| 5° | 273.9 | 274.2 | 273.9 | 273.5 | 273.2 | 273.5 | 273.5 | 273.5 |
| 7.5° | 283.2 | 282.9 | 282.6 | 282.6 | 282.3 | 282.0 | 282.6 | 282.6 |
| 10° | 294.7 | 294.4 | 293.8 | 293.8 | 293.5 | 293.5 | 293.5 | 293.5 |
| 12.5° | 308.5 | 307.6 | 307.3 | 306.4 | 306.1 | 305.8 | 305.8 | 306.1 |
| 15° | 323.0 | 322.1 | 321.8 | 320.3 | 320.3 | 320.0 | 320.0 | 320.0 |
| 17.5° | 338.4 | 337.5 | 336.3 | 336.3 | 335.4 | 334.8 | 335.1 | 334.5 |
| 20° | 354.1 | 352.9 | 352.3 | 352.0 | 350.8 | 350.8 | 350.8 | 350.5 |
| 22.5° | 369.5 | 368.6 | 367.6 | 366.4 | 365.2 | 364.9 | 364.9 | 364.6 |
| 25° | 385.1 | 383.6 | 381.8 | 380.6 | 379.4 | 378.5 | 378.5 | 378.5 |
| 27.5° | 400.8 | 399.0 | 396.3 | 394.8 | 393.0 | 392.1 | 392.1 | 391.8 |
| 30° | 417.4 | 415.3 | 412.9 | 410.8 | 408.4 | 407.5 | 407.2 | 406.6 |
| 32.5° | 437.3 | 435.2 | 432.8 | 429.8 | 427.4 | 425.9 | 425.9 | 425.0 |
| 35° | 462.7 | 460.2 | 458.4 | 454.5 | 451.5 | 449.1 | 449.4 | 450.0 |
| 37.5° | 495.8 | 492.8 | 491.3 | 486.5 | 482.6 | 480.1 | 480.1 | 479.8 |
| 40° | 538.0 | 535.0 | 531.7 | 527.2 | 522.4 | 519.0 | 518.1 | 518.1 |
| 42.5° | 591.7 | 589.0 | 584.5 | 578.2 | 572.4 | 568.8 | 565.8 | 566.1 |
| 45° | 659.0 | 655.7 | 649.3 | 641.5 | 634.6 | 629.4 | 625.2 | 625.2 |
| 47.5° | 740.7 | 733.8 | 725.0 | 718.1 | 706.3 | 698.5 | 695.5 | 694.9 |
| 50° | 833.9 | 820.9 | 810.1 | 800.1 | 787.8 | 779.6 | 775.1 | 773.9 |
| 52.5° | 931.6 | 918.1 | 904.5 | 891.5 | 876.4 | 868.0 | 860.8 | 860.2 |
| 55° | 1037.8 | 1020.6 | 1003.4 | 990.7 | 973.0 | 964.2 | 957.0 | 952.7 |
| 57.5° | 1146.1 | 1126.8 | 1114.4 | 1096.3 | 1077.6 | 1071.3 | 1064.3 | 1059.2 |
| 60° | 1267.9 | 1246.8 | 1230.5 | 1211.5 | 1199.5 | 1185.9 | 1179.2 | 1175.3 |
| 62.5° | 1392.5 | 1372.9 | 1352.1 | 1334.0 | 1317.1 | 1307.7 | 1298.7 | 1294.2 |
| 65° | 1519.1 | 1486.9 | 1462.1 | 1437.1 | 1417.2 | 1400.3 | 1386.1 | 1384.3 |
| 67.5° | 1597.0 | 1556.2 | 1514.9 | 1478.4 | 1449.2 | 1425.3 | 1410.9 | 1405.7 |
| 69° | 1603.3 | 1559.0 | 1507.4 | 1463.7 | 1429.9 | 1407.0 | 1389.8 | 1384.3 |
| 70° | 1585.8 | 1541.2 | 1486.9 | 1439.8 | 1404.8 | 1379.8 | 1365.6 | 1356.6 |
| 72.5° | 1457.9 | 1418.7 | 1366.5 | 1320.1 | 1288.4 | 1259.2 | 1245.0 | 1241.4 |
| 75° | 1202.8 | 1161.1 | 1113.2 | 1090.9 | 1068.9 | 1050.5 | 1040.8 | 1039.9 |
| 77.5° | 854.1 | 811.6 | 775.1 | 745.9 | 722.0 | 710.3 | 713.0 | 703.0 |
| 80° | 488.9 | 433.4 | 389.4 | 363.4 | 328.1 | 307.0 | 283.2 | 300.4 |
| 82.5° | 210.2 | 169.8 | 129.4 | 105.3 | 80.2 | 63.6 | 52.5 | 48.9 |
| 85° | 58.8 | 48.0 | 40.1 | 36.8 | 33.2 | 29.6 | 25.0 | 23.2 |
| 87.5° | 19.9 | 19.0 | 16.9 | 16.9 | 15.4 | 13.0 | 9.0 | 8.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)