

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: P162117

Luminaire Tested: **OVF-E04-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P162117
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-E04-LED-E-U-T2
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11994.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

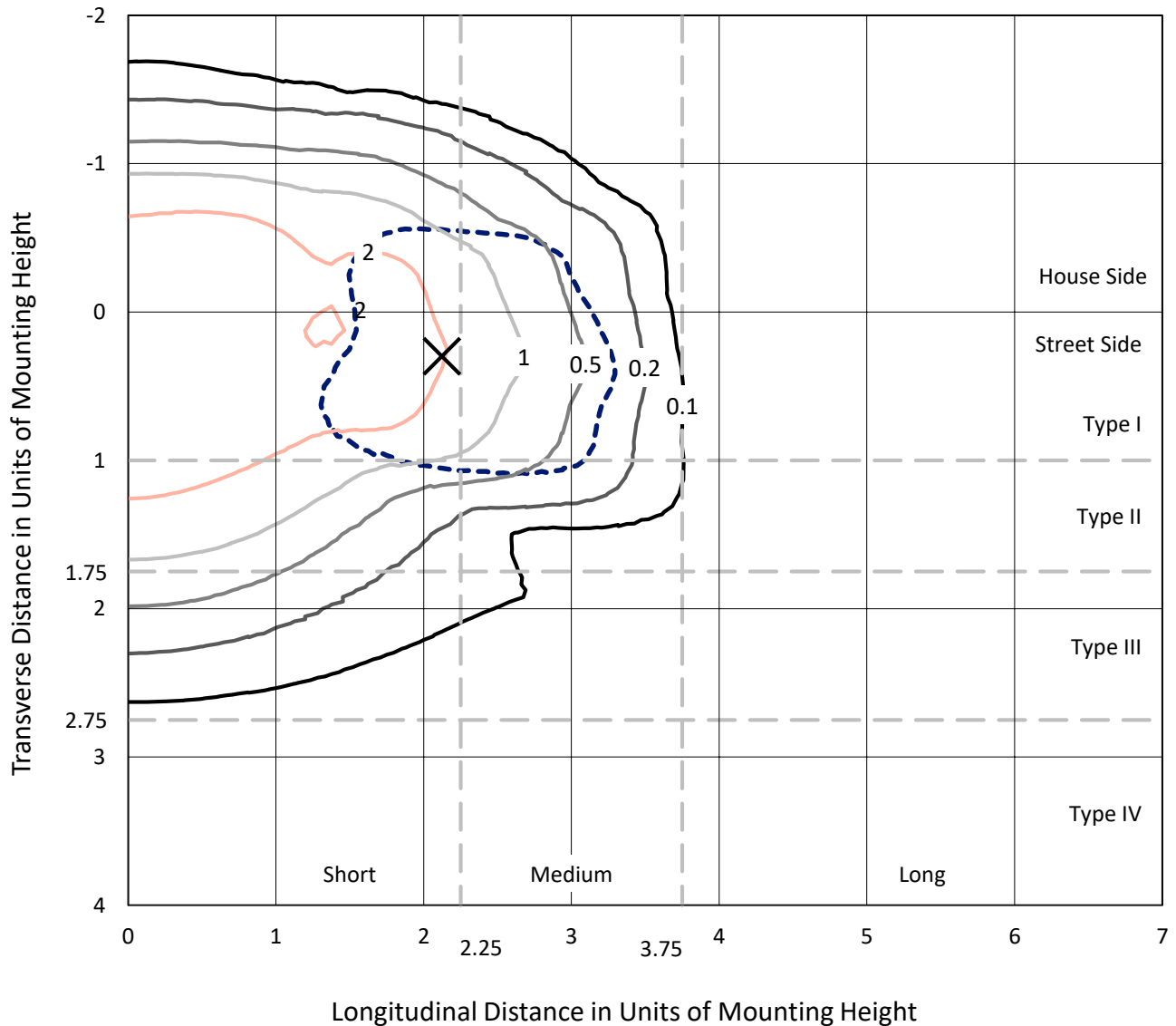
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

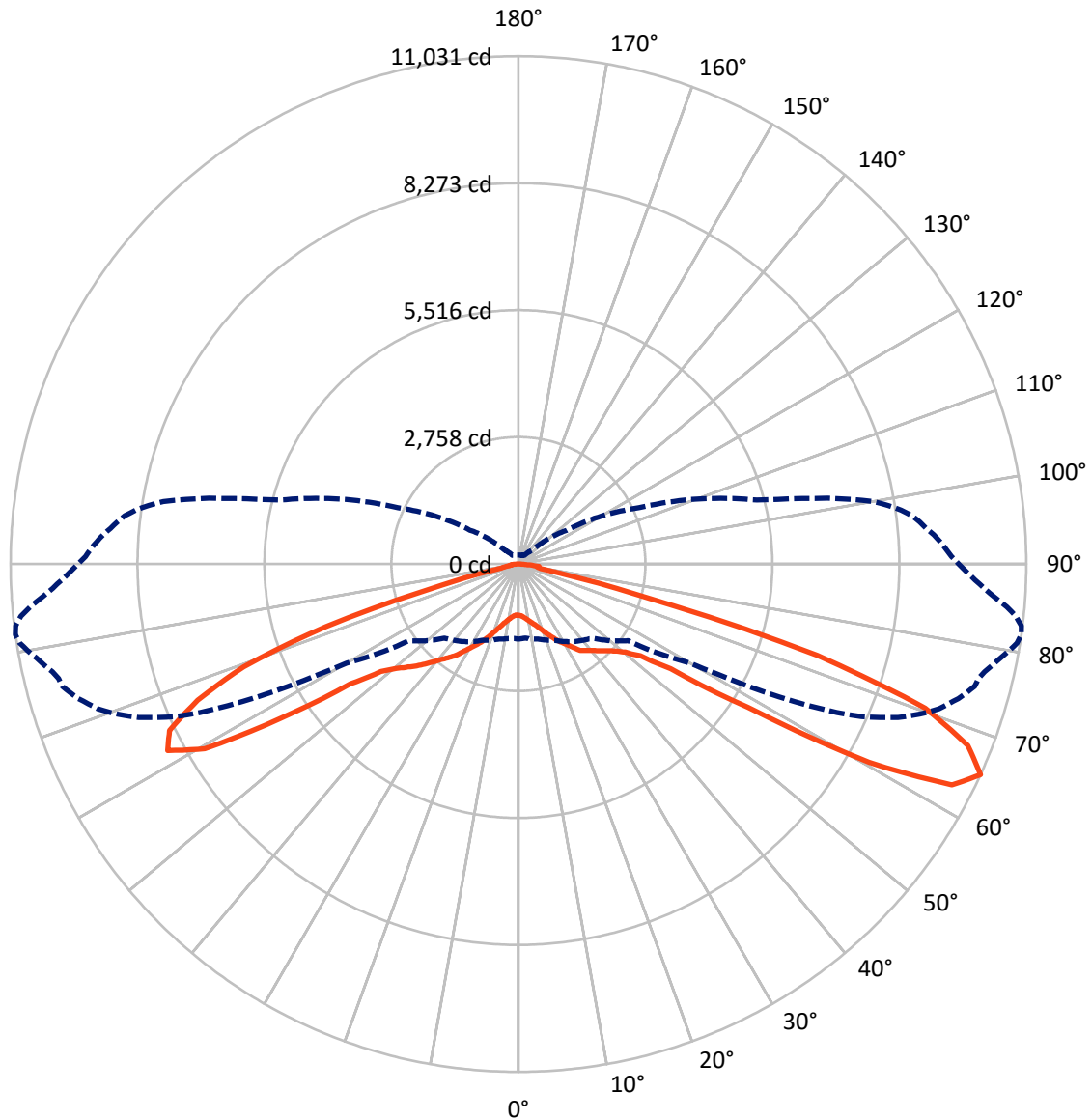


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - Semi-Cutoff

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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	4415.2	0.0	4415.2
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	7579.1	0.0	7579.1
	% Fixture	63.2	0.0	63.2
Total	Lumens	11994.3	0.0	11994.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	0.9
10°-20°	397.2	3.3
20°-30°	787.9	6.6
30°-40°	1344.3	11.2
40°-50°	2015.8	16.8
50°-60°	2805.9	23.4
60°-70°	3223.6	26.9
70°-80°	1112.4	9.3
80°-90°	194.5	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°	11994.3	100.0
0°-180°	11994.3	100.0

Coefficient of Utilization



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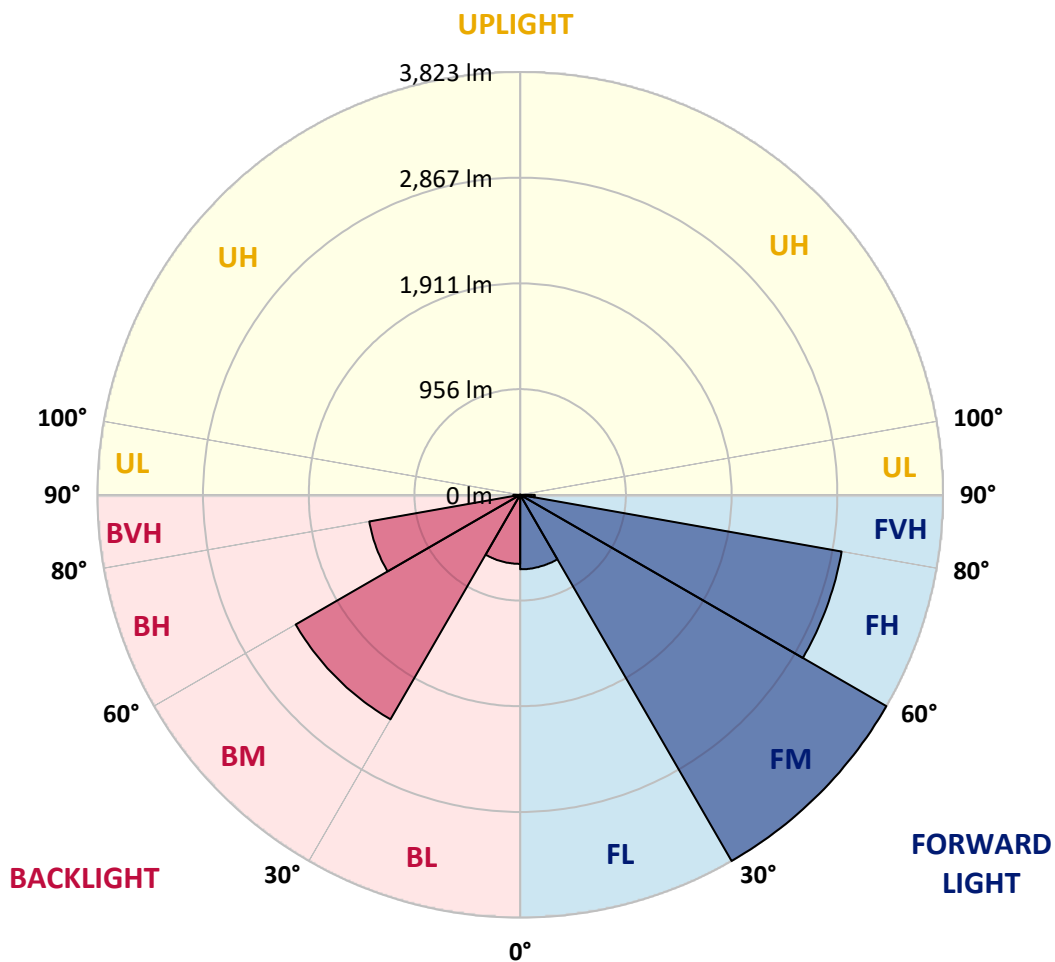
CATALOG NUMBER: OVF-E04-LED-E-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.3	5.6			
FM (30°-60°)	3822.7	31.9			
FH (60°-80°)	2951.0	24.6			G2/5000
FVH (80°-90°)	132.1	1.1			G2/225
BL (0°-30°)	624.5	5.2	B2/1000		
BM (30°-60°)	2343.3	19.5	B2/2500		
BH (60°-80°)	1385.0	11.5	B3/2500		G3/2500
BVH (80°-90°)	62.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2
2.5°	1172.8	1172.0	1171.2	1168.0	1166.4	1160.0	1153.6	1149.6	1146.4	1148.0	1143.2
5°	1240.8	1240.8	1237.6	1233.6	1228.8	1220.0	1204.0	1196.0	1194.4	1194.4	1188.8
7.5°	1310.4	1315.2	1306.4	1303.2	1295.2	1281.6	1263.2	1252.8	1249.6	1249.6	1244.8
10°	1398.4	1396.0	1386.4	1380.0	1364.0	1345.6	1320.8	1308.8	1304.0	1308.0	1300.0
12.5°	1491.2	1490.4	1476.0	1464.0	1441.6	1412.0	1379.2	1363.2	1360.0	1360.0	1355.2
15°	1585.6	1586.4	1570.4	1548.0	1512.8	1472.8	1436.0	1420.8	1416.8	1415.2	1409.6
17.5°	1657.6	1665.6	1649.6	1620.8	1577.6	1533.6	1494.4	1479.2	1478.4	1476.8	1470.4
20°	1698.4	1700.0	1691.2	1670.4	1632.0	1589.6	1562.4	1555.2	1554.4	1555.2	1556.8
22.5°	1696.8	1699.2	1696.0	1688.0	1663.2	1640.0	1636.8	1640.8	1643.2	1640.8	1646.4
25°	1684.0	1687.2	1687.2	1691.2	1684.8	1692.8	1718.4	1729.6	1730.4	1732.0	1744.0
27.5°	1712.0	1715.2	1714.4	1721.6	1727.2	1755.2	1801.6	1821.6	1824.0	1829.6	1840.8
30°	1841.6	1842.4	1828.0	1827.2	1832.8	1855.2	1902.4	1925.6	1923.2	1934.4	1941.6
32.5°	2046.4	2052.8	2038.4	2023.2	2020.8	2024.0	2032.8	2048.8	2046.4	2052.0	2061.6
35°	2280.0	2280.8	2272.8	2281.6	2286.4	2264.8	2223.2	2219.2	2206.4	2208.8	2212.0
37.5°	2494.4	2500.0	2515.2	2571.2	2603.2	2550.4	2468.8	2417.6	2409.6	2405.6	2377.6
40°	2695.2	2723.2	2760.0	2832.8	2876.8	2896.0	2780.0	2676.8	2648.8	2637.6	2593.6
42.5°	2930.4	2944.8	2988.0	3071.2	3129.6	3216.8	3139.2	3025.6	2992.8	2944.8	2889.6
45°	3129.6	3139.2	3166.4	3236.8	3359.2	3504.8	3513.6	3434.4	3408.8	3360.8	3280.0
47.5°	3263.2	3262.4	3282.4	3351.2	3510.4	3732.8	3864.8	3861.6	3832.0	3815.2	3746.4
50°	3315.2	3314.4	3327.2	3404.0	3577.6	3868.8	4160.0	4260.0	4259.2	4265.6	4230.4
52.5°	3324.8	3324.0	3325.6	3387.2	3564.0	3916.0	4372.8	4608.8	4643.2	4686.4	4725.6
55°	3252.8	3260.8	3278.4	3343.2	3512.8	3896.8	4530.4	4936.0	5018.4	5106.4	5248.8
57.5°	3086.4	3101.6	3162.4	3278.4	3458.4	3849.6	4640.0	5340.8	5508.0	5720.8	6106.4
60°	2848.0	2861.6	2945.6	3099.2	3300.0	3644.0	4512.8	5510.4	5828.0	6197.6	6988.0
62.5°	2426.4	2464.8	2509.6	2618.4	2828.8	3105.6	3941.6	5224.0	5716.0	6258.4	7346.4
65°	1629.6	1613.6	1688.0	1826.4	2057.6	2272.8	2904.0	4308.8	4931.2	5677.6	7024.0
67.5°	1008.8	1011.2	1061.6	1196.8	1371.2	1538.4	1840.8	2746.4	3298.4	4008.0	5627.2
70°	833.6	843.2	884.0	1009.6	1158.4	1347.2	1366.4	1456.0	1703.2	2046.4	3476.0
72.5°	661.6	665.6	707.2	812.0	1022.4	1281.6	1622.4	1106.4	1087.2	1139.2	1763.2
75°	410.4	413.6	434.4	501.6	663.2	998.4	1786.4	1272.0	1192.0	1124.8	1136.0
77.5°	212.0	218.4	229.6	260.0	348.0	557.6	1406.4	1612.8	1521.6	1430.4	1252.0
80°	120.0	120.0	130.4	137.6	164.8	227.2	715.2	1745.6	1907.2	1946.4	1748.0
82.5°	53.6	60.0	80.8	86.4	94.4	104.0	236.8	1048.8	1455.2	1817.6	2246.4
85°	32.0	31.2	51.2	56.0	58.4	49.6	88.8	428.0	680.0	995.2	1488.8
87.5°	12.8	13.6	21.6	23.2	27.2	20.0	33.6	92.0	135.2	196.0	276.8
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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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2
2.5°	1142.4	1142.4	1141.6	1140.8	1140.0	1137.6	1136.8	1135.2	1134.4	1132.0	1131.2
5°	1188.0	1185.6	1184.8	1183.2	1182.4	1179.2	1179.2	1176.0	1173.6	1170.4	1169.6
7.5°	1242.4	1239.2	1236.8	1235.2	1234.4	1228.8	1228.8	1224.0	1223.2	1219.2	1217.6
10°	1297.6	1295.2	1292.0	1290.4	1289.6	1286.4	1283.2	1280.0	1277.6	1275.2	1272.0
12.5°	1352.8	1348.0	1346.4	1344.0	1342.4	1340.0	1339.2	1332.0	1332.0	1329.6	1326.4
15°	1406.4	1405.6	1400.0	1399.2	1397.6	1398.4	1393.6	1394.4	1392.0	1388.0	1386.4
17.5°	1472.0	1466.4	1468.8	1464.8	1465.6	1464.0	1462.4	1461.6	1463.2	1462.4	1464.0
20°	1553.6	1552.0	1554.4	1548.8	1554.4	1555.2	1553.6	1557.6	1556.0	1557.6	1552.8
22.5°	1650.4	1644.8	1644.8	1648.8	1651.2	1658.4	1654.4	1657.6	1660.8	1663.2	1660.0
25°	1748.0	1746.4	1749.6	1752.8	1757.6	1764.0	1762.4	1763.2	1769.6	1773.6	1774.4
27.5°	1847.2	1847.2	1856.8	1856.8	1863.2	1870.4	1872.8	1876.0	1880.8	1886.4	1886.4
30°	1949.6	1949.6	1958.4	1966.4	1969.6	1978.4	1983.2	1988.0	1996.8	1998.4	2005.6
32.5°	2066.4	2068.8	2077.6	2082.4	2089.6	2100.0	2101.6	2107.2	2117.6	2120.8	2126.4
35°	2218.4	2210.4	2218.4	2227.2	2231.2	2228.0	2245.6	2252.8	2260.0	2264.0	2271.2
37.5°	2375.2	2361.6	2362.4	2360.8	2351.2	2356.8	2356.8	2355.2	2360.0	2359.2	2362.4
40°	2573.6	2549.6	2542.4	2527.2	2506.4	2495.2	2483.2	2481.6	2469.6	2474.4	2465.6
42.5°	2845.6	2809.6	2790.4	2743.2	2717.6	2687.2	2657.6	2632.0	2618.4	2603.2	2592.0
45°	3219.2	3176.8	3130.4	3054.4	3010.4	2949.6	2910.4	2852.0	2812.8	2780.0	2756.8
47.5°	3688.0	3616.8	3579.2	3508.0	3431.2	3339.2	3255.2	3173.6	3107.2	3035.2	2978.4
50°	4232.8	4144.0	4114.4	4020.0	3976.8	3873.6	3784.0	3683.2	3579.2	3470.4	3366.4
52.5°	4715.2	4704.8	4716.8	4653.6	4652.0	4600.0	4500.8	4383.2	4286.4	4176.8	4040.0
55°	5293.6	5396.8	5419.2	5410.4	5457.6	5456.0	5446.4	5434.4	5357.6	5202.4	5155.2
57.5°	6314.4	6430.4	6601.6	6679.2	6850.4	6870.4	7028.8	6967.2	7084.8	7052.8	7074.4
60°	7353.6	7709.6	8034.4	8281.6	8521.6	8740.0	9007.2	9121.6	9207.2	9340.8	9481.6
62.5°	7818.4	8267.2	8654.4	9006.4	9304.8	9581.6	9811.2	10028.8	10200.0	10353.6	10472.0
65°	7630.4	8151.2	8528.8	8896.0	9174.4	9432.0	9660.0	9823.2	9993.6	10132.8	10258.4
67.5°	6352.8	7046.4	7539.2	7956.0	8305.6	8599.2	8836.0	9060.8	9181.6	9333.6	9401.6
70°	4208.0	5097.6	5794.4	6357.6	6912.0	7244.8	7525.6	7787.2	7924.8	8048.0	8124.0
72.5°	2311.2	2919.2	3663.2	4332.8	4865.6	5302.4	5629.6	5877.6	6019.2	6124.8	6015.2
75°	1309.6	1609.6	1973.6	2344.0	2748.0	3056.0	3142.4	3248.0	3272.8	3218.4	3077.6
77.5°	1204.0	1204.0	1204.8	1196.0	1213.6	1235.2	1222.4	1200.8	1103.2	1081.6	1051.2
80°	1565.6	1395.2	1212.8	996.0	812.0	684.8	645.6	648.8	680.0	740.8	808.0
82.5°	2219.2	2051.2	1788.0	1457.6	1160.0	910.4	746.4	671.2	670.4	731.2	818.4
85°	1618.4	1632.0	1573.6	1392.0	1110.4	874.4	706.4	542.4	489.6	489.6	483.2
87.5°	283.2	292.0	252.0	225.6	157.6	111.2	100.0	88.0	87.2	90.4	83.2
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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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2
2.5°	1131.2	1129.6	1128.0	1127.2	1127.2	1125.6	1125.6	1124.0	1124.8	1124.0	1121.6
5°	1168.0	1167.2	1164.8	1160.8	1160.0	1156.8	1157.6	1154.4	1154.4	1152.8	1148.8
7.5°	1214.4	1212.8	1211.2	1208.0	1204.8	1204.8	1199.2	1199.2	1195.2	1193.6	1190.4
10°	1269.6	1264.8	1262.4	1259.2	1258.4	1257.6	1252.0	1252.0	1247.2	1246.4	1244.0
12.5°	1324.0	1320.8	1318.4	1316.8	1312.8	1312.0	1309.6	1307.2	1304.8	1303.2	1302.4
15°	1383.2	1381.6	1379.2	1379.2	1379.2	1375.2	1372.8	1371.2	1371.2	1368.8	1370.4
17.5°	1460.0	1462.4	1459.2	1457.6	1455.2	1459.2	1455.2	1455.2	1457.6	1457.6	1452.0
20°	1555.2	1558.4	1555.2	1556.0	1554.4	1555.2	1556.0	1557.6	1560.8	1555.2	1556.0
22.5°	1660.8	1661.6	1664.0	1661.6	1665.6	1663.2	1668.0	1672.0	1671.2	1669.6	1670.4
25°	1776.0	1773.6	1774.4	1781.6	1787.2	1785.6	1786.4	1792.8	1791.2	1789.6	1790.4
27.5°	1892.8	1891.2	1893.6	1900.0	1906.4	1905.6	1904.0	1908.8	1908.8	1904.8	1906.4
30°	2008.8	2011.2	2015.2	2015.2	2018.4	2021.6	2019.2	2024.8	2025.6	2022.4	2026.4
32.5°	2131.2	2136.0	2134.4	2145.6	2145.6	2146.4	2148.8	2148.0	2156.0	2149.6	2152.0
35°	2278.4	2280.0	2289.6	2297.6	2302.4	2306.4	2306.4	2308.8	2312.8	2309.6	2314.4
37.5°	2368.0	2371.2	2374.4	2379.2	2379.2	2379.2	2383.2	2384.0	2386.4	2385.6	2387.2
40°	2466.4	2467.2	2468.0	2468.8	2472.0	2473.6	2469.6	2475.2	2471.2	2472.8	2475.2
42.5°	2585.6	2574.4	2576.0	2573.6	2579.2	2572.0	2573.6	2580.0	2576.8	2581.6	2581.6
45°	2724.0	2711.2	2700.0	2693.6	2693.6	2684.0	2685.6	2688.0	2692.0	2698.4	2709.6
47.5°	2928.8	2884.8	2863.2	2840.8	2829.6	2817.6	2821.6	2822.4	2824.0	2834.4	2862.4
50°	3264.0	3190.4	3133.6	3065.6	3040.0	3019.2	3007.2	3008.0	3008.0	3029.6	3057.6
52.5°	3912.0	3775.2	3640.0	3521.6	3420.0	3371.2	3314.4	3300.0	3300.8	3319.2	3338.4
55°	5031.2	4843.2	4700.0	4436.8	4356.8	4132.0	4013.6	3945.6	3892.8	3918.4	3946.4
57.5°	7039.2	6865.6	6752.0	6437.6	6151.2	6069.6	5875.2	5717.6	5652.8	5577.6	5582.4
60°	9502.4	9412.8	9384.0	9200.0	9096.8	8776.0	8750.4	8551.2	8363.2	8200.8	8267.2
62.5°	10563.2	10604.8	10638.4	10703.2	10728.0	10697.6	10568.8	10480.8	10326.4	10113.6	9983.2
65°	10295.2	10390.4	10533.6	10668.8	10830.4	10964.8	11031.2	11005.6	10866.4	10647.2	10373.6
67.5°	9450.4	9547.2	9670.4	9841.6	10088.8	10350.4	10532.8	10648.8	10538.4	10340.8	10062.4
70°	8120.0	8214.4	8218.4	8457.6	8724.0	9053.6	9376.8	9498.4	9372.8	9240.8	9008.0
72.5°	6081.6	6024.8	6077.6	6121.6	6273.6	6481.6	6795.2	6781.6	6589.6	6487.2	6129.6
75°	2858.4	2820.0	2764.0	2727.2	2692.0	2618.4	2653.6	2503.2	2451.2	2472.0	2163.2
77.5°	1028.0	975.2	890.4	808.0	704.0	583.2	492.0	432.0	402.4	403.2	384.8
80°	862.4	888.0	876.0	794.4	677.6	551.2	412.8	312.8	267.2	248.0	236.0
82.5°	935.2	1064.0	1128.0	1077.6	910.4	700.8	451.2	272.8	200.0	171.2	164.0
85°	518.4	519.2	503.2	480.8	426.4	292.8	195.2	129.6	104.0	92.8	89.6
87.5°	88.0	84.0	84.0	78.4	68.8	67.2	60.0	56.8	50.4	46.4	44.8
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-E04-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2
2.5°	1119.2	1117.6	1116.8	1116.0	1116.0	1115.2	1115.2	1113.6	1112.0	1111.2	1110.4
5°	1144.8	1143.2	1141.6	1140.0	1140.0	1138.4	1136.8	1135.2	1132.8	1128.8	1128.0
7.5°	1188.0	1184.8	1184.8	1179.2	1179.2	1176.0	1173.6	1173.6	1170.4	1164.0	1163.2
10°	1241.6	1236.0	1233.6	1230.4	1228.8	1225.6	1225.6	1222.4	1220.8	1218.4	1210.4
12.5°	1299.2	1295.2	1293.6	1289.6	1287.2	1287.2	1285.6	1280.0	1284.0	1278.4	1274.4
15°	1368.8	1368.0	1360.8	1363.2	1362.4	1361.6	1362.4	1357.6	1356.8	1356.8	1352.0
17.5°	1456.0	1449.6	1450.4	1450.4	1452.0	1452.0	1445.6	1448.8	1449.6	1448.0	1446.4
20°	1558.4	1556.0	1558.4	1553.6	1558.4	1558.4	1561.6	1560.8	1561.6	1563.2	1563.2
22.5°	1668.0	1674.4	1675.2	1676.8	1671.2	1680.8	1680.8	1682.4	1686.4	1686.4	1688.0
25°	1800.8	1797.6	1793.6	1799.2	1800.8	1807.2	1808.8	1808.8	1815.2	1815.2	1817.6
27.5°	1911.2	1914.4	1913.6	1916.8	1915.2	1924.0	1927.2	1936.8	1934.4	1939.2	1945.6
30°	2024.8	2031.2	2028.0	2028.8	2032.8	2038.4	2044.8	2054.4	2056.0	2068.8	2072.0
32.5°	2156.0	2160.8	2164.8	2166.4	2166.4	2176.0	2186.4	2189.6	2206.4	2216.0	2227.2
35°	2322.4	2323.2	2325.6	2328.0	2326.4	2336.8	2347.2	2350.4	2368.0	2370.4	2393.6
37.5°	2392.8	2394.4	2404.0	2408.8	2412.0	2424.8	2444.0	2458.4	2477.6	2496.0	2522.4
40°	2480.8	2490.4	2499.2	2506.4	2518.4	2536.0	2565.6	2580.0	2608.8	2643.2	2668.8
42.5°	2592.0	2609.6	2616.0	2629.6	2659.2	2680.8	2710.4	2741.6	2780.0	2821.6	2852.0
45°	2724.0	2740.8	2764.8	2780.0	2814.4	2848.8	2896.0	2923.2	2962.4	3010.4	3044.0
47.5°	2884.0	2907.2	2931.2	2962.4	3003.2	3039.2	3086.4	3121.6	3160.8	3200.0	3236.8
50°	3083.2	3117.6	3149.6	3182.4	3236.8	3267.2	3313.6	3350.4	3387.2	3426.4	3460.0
52.5°	3351.2	3403.2	3444.0	3466.4	3540.0	3570.4	3627.2	3652.8	3683.2	3718.4	3761.6
55°	3936.0	4016.8	4085.6	4125.6	4237.6	4277.6	4351.2	4388.8	4368.0	4412.8	4490.4
57.5°	5627.2	5726.4	5808.8	5863.2	5977.6	6033.6	6037.6	6178.4	6095.2	6177.6	6189.6
60°	8090.4	8168.8	8148.8	8149.6	8113.6	8061.6	8161.6	8009.6	8073.6	8077.6	7934.4
62.5°	9742.4	9622.4	9566.4	9473.6	9365.6	9282.4	9225.6	9103.2	9005.6	8928.0	8776.8
65°	10131.2	9923.2	9739.2	9565.6	9406.4	9296.0	9176.0	9044.8	8892.0	8763.2	8616.0
67.5°	9755.2	9464.0	9191.2	8962.4	8744.8	8599.2	8425.6	8300.8	8108.8	7939.2	7827.2
70°	8664.8	8261.6	7943.2	7796.8	7580.8	7268.0	7102.4	6946.4	6828.8	6675.2	6607.2
72.5°	6078.4	5580.8	5335.2	5344.8	5125.6	4901.6	4907.2	4812.0	4660.0	4655.2	4632.0
75°	2233.6	2032.0	1890.4	1896.8	1815.2	1728.0	1752.0	1777.6	1728.0	1828.8	1672.8
77.5°	355.2	345.6	342.4	335.2	317.6	330.4	321.6	338.4	340.8	359.2	360.8
80°	226.4	216.8	214.4	210.4	209.6	209.6	208.0	208.0	208.0	208.8	207.2
82.5°	151.2	145.6	144.8	142.4	146.4	147.2	148.0	154.4	160.0	161.6	168.0
85°	82.4	78.4	78.4	76.8	80.0	80.8	88.0	96.8	108.0	112.8	123.2
87.5°	41.6	44.0	43.2	44.8	47.2	52.8	58.4	64.0	70.4	79.2	86.4
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: P162117

CATALOG NUMBER: OVF-E04-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2
2.5°	1108.8	1108.0	1108.0	1106.4	1106.4	1105.6	1104.0	1102.4	1095.2	1086.4	1080.8
5°	1125.6	1124.0	1123.2	1121.6	1119.2	1119.2	1116.8	1113.6	1100.0	1085.6	1076.8
7.5°	1160.0	1159.2	1156.8	1153.6	1150.4	1147.2	1145.6	1144.0	1123.2	1109.6	1103.2
10°	1209.6	1208.8	1203.2	1202.4	1197.6	1198.4	1194.4	1191.2	1177.6	1162.4	1153.6
12.5°	1272.8	1276.0	1272.8	1265.6	1267.2	1264.8	1260.8	1256.8	1244.8	1232.8	1219.2
15°	1351.2	1347.2	1344.0	1350.4	1344.8	1344.0	1346.4	1347.2	1332.8	1320.0	1300.8
17.5°	1448.8	1448.8	1447.2	1448.8	1445.6	1448.0	1446.4	1448.0	1441.6	1424.0	1396.0
20°	1560.0	1566.4	1566.4	1564.0	1563.2	1568.0	1570.4	1561.6	1563.2	1548.0	1497.6
22.5°	1689.6	1694.4	1696.0	1693.6	1694.4	1700.8	1704.8	1698.4	1712.8	1688.0	1610.4
25°	1823.2	1830.4	1827.2	1828.0	1834.4	1841.6	1848.8	1842.4	1870.4	1832.0	1730.4
27.5°	1955.2	1961.6	1960.0	1964.8	1975.2	1984.8	1992.8	1990.4	2036.8	1986.4	1856.8
30°	2080.0	2095.2	2098.4	2104.0	2116.8	2132.8	2145.6	2144.8	2204.8	2136.8	1960.0
32.5°	2233.6	2250.4	2256.8	2268.8	2293.6	2304.8	2320.8	2322.4	2382.4	2268.8	2047.2
35°	2411.2	2428.0	2441.6	2450.4	2478.4	2492.0	2508.0	2515.2	2555.2	2392.0	2108.0
37.5°	2548.8	2563.2	2589.6	2608.0	2632.8	2660.0	2678.4	2687.2	2709.6	2497.6	2136.0
40°	2699.2	2730.4	2756.0	2784.0	2811.2	2832.8	2849.6	2863.2	2854.4	2585.6	2124.0
42.5°	2889.6	2922.4	2956.8	2980.8	2995.2	3024.0	3032.0	3041.6	2969.6	2625.6	2069.6
45°	3088.0	3114.4	3143.2	3160.8	3180.0	3194.4	3196.8	3197.6	3055.2	2602.4	1971.2
47.5°	3279.2	3301.6	3321.6	3331.2	3340.8	3341.6	3337.6	3331.2	3100.8	2524.0	1852.8
50°	3488.8	3502.4	3511.2	3512.0	3520.8	3504.0	3492.8	3463.2	3096.0	2404.0	1728.0
52.5°	3790.4	3787.2	3776.0	3775.2	3747.2	3715.2	3694.4	3652.0	3063.2	2274.4	1584.0
55°	4483.2	4452.8	4488.0	4398.4	4324.0	4274.4	4156.8	4071.2	3096.0	2153.6	1418.4
57.5°	6148.0	6044.0	6055.2	5910.4	5752.0	5455.2	5280.0	5043.2	3353.6	2086.4	1209.6
60°	7904.0	7732.8	7571.2	7314.4	6977.6	6600.8	6261.6	5891.2	3609.6	2004.0	987.2
62.5°	8628.8	8408.0	8127.2	7764.8	7332.0	6864.8	6396.0	5973.6	3468.8	1756.0	711.2
65°	8395.2	8131.2	7832.0	7359.2	6868.0	6324.8	5811.2	5364.8	2888.8	1284.0	429.6
67.5°	7565.6	7338.4	6969.6	6523.2	5915.2	5370.4	4862.4	4449.6	2129.6	793.6	246.4
70°	6370.4	6056.0	5740.8	5312.0	4671.2	4157.6	3684.8	3320.0	1351.2	392.0	181.6
72.5°	4396.8	4148.0	3896.0	3512.0	3033.6	2680.0	2273.6	1973.6	707.2	211.2	167.2
75°	1712.8	1685.6	1656.8	1482.4	1320.0	1057.6	928.8	837.6	294.4	183.2	164.8
77.5°	376.0	398.4	411.2	389.6	371.2	331.2	316.8	283.2	196.8	188.0	163.2
80°	207.2	207.2	207.2	209.6	205.6	205.6	203.2	199.2	184.0	188.0	160.0
82.5°	169.6	172.0	175.2	176.0	175.2	176.0	174.4	173.6	180.0	188.8	152.0
85°	129.6	137.6	142.4	148.8	155.2	159.2	160.8	161.6	165.6	179.2	132.8
87.5°	92.0	98.4	108.8	110.4	117.6	126.4	129.6	134.4	132.0	136.0	62.4
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: P162117

CATALOG NUMBER: OVF-E04-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1111.2	1111.2	1111.2	1111.2	1111.2
2.5°	1076.0	1069.6	1067.2	1066.4	1064.8
5°	1069.6	1065.6	1062.4	1060.0	1061.6
7.5°	1098.4	1096.0	1090.4	1088.8	1091.2
10°	1149.6	1144.0	1136.0	1136.8	1136.0
12.5°	1213.6	1198.4	1185.6	1180.0	1176.0
15°	1279.2	1249.6	1223.2	1211.2	1206.4
17.5°	1352.0	1301.6	1260.8	1239.2	1235.2
20°	1428.8	1359.2	1306.4	1280.8	1276.8
22.5°	1517.6	1421.6	1354.4	1319.2	1313.6
25°	1604.0	1477.6	1388.0	1344.8	1337.6
27.5°	1682.4	1520.0	1408.0	1356.8	1349.6
30°	1748.0	1553.6	1424.8	1366.4	1358.4
32.5°	1791.2	1572.0	1430.4	1367.2	1357.6
35°	1804.8	1560.0	1406.4	1333.6	1325.6
37.5°	1776.0	1511.2	1342.4	1260.0	1253.6
40°	1710.4	1420.8	1241.6	1156.0	1148.0
42.5°	1608.0	1306.4	1124.8	1034.4	1027.2
45°	1494.4	1184.0	1000.8	910.4	903.2
47.5°	1370.4	1054.4	870.4	787.2	776.0
50°	1234.4	913.6	737.6	656.0	645.6
52.5°	1075.2	760.0	596.8	523.2	516.8
55°	888.8	605.6	475.2	421.6	415.2
57.5°	691.2	460.8	377.6	351.2	340.8
60°	501.6	350.4	300.8	288.0	282.4
62.5°	340.8	261.6	242.4	238.4	234.4
65°	231.2	204.8	199.2	200.0	197.6
67.5°	182.4	172.0	168.8	170.4	169.6
70°	160.0	152.0	151.2	152.8	152.0
72.5°	151.2	140.8	142.4	144.8	144.0
75°	147.2	136.0	139.2	140.8	136.8
77.5°	143.2	128.8	138.4	141.6	133.6
80°	137.6	122.4	144.8	143.2	128.0
82.5°	125.6	108.0	141.6	129.6	115.2
85°	102.4	80.8	159.2	114.4	84.0
87.5°	65.6	48.8	110.4	87.2	56.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)