

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: P163412

Luminaire Tested: **OVF-F05-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163412
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-F05-LED-E-U-SL2-HSS
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7341.2 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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

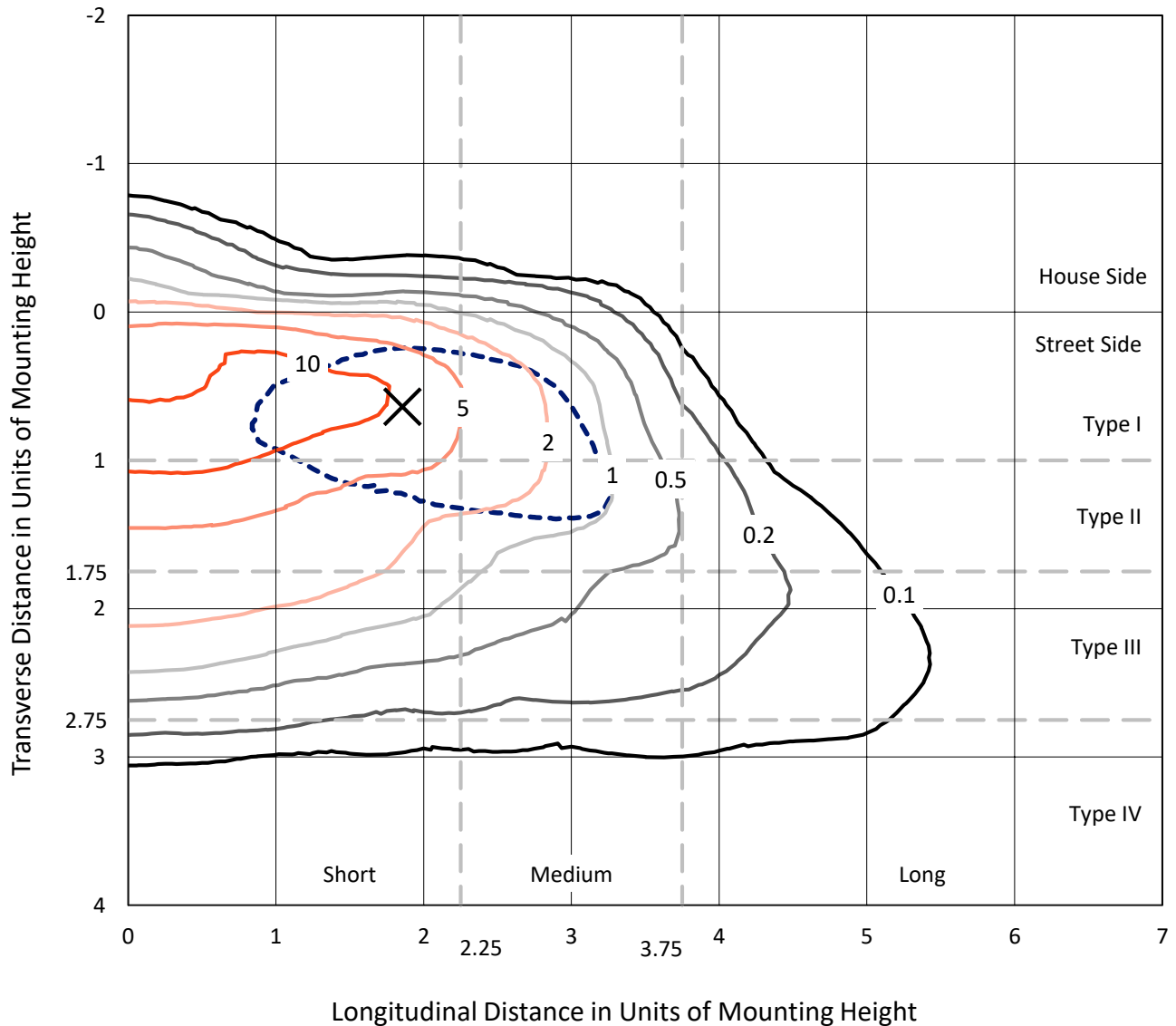


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Iso-Footcandle Lines of Horizontal Illumination

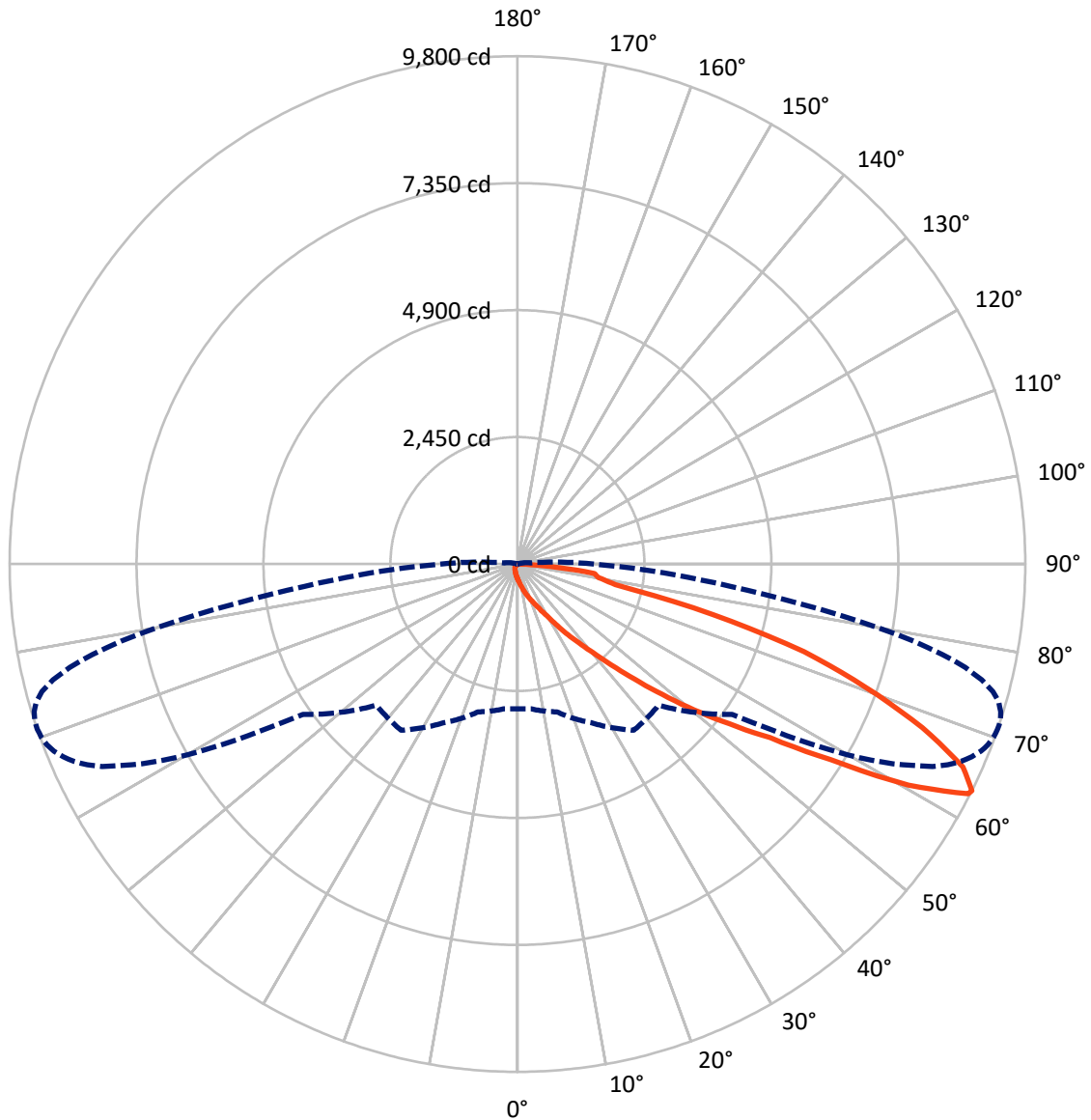
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	155.9	0.0	155.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7185.3	0.0	7185.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	7341.2	0.0	7341.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	0.4
10°-20°	120.7	1.6
20°-30°	245.2	3.3
30°-40°	599.0	8.2
40°-50°	1339.6	18.2
50°-60°	1883.7	25.7
60°-70°	2215.1	30.2
70°-80°	799.8	10.9
80°-90°	107.0	1.5
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°	7341.2	100.0
0°-180°	7341.2	100.0



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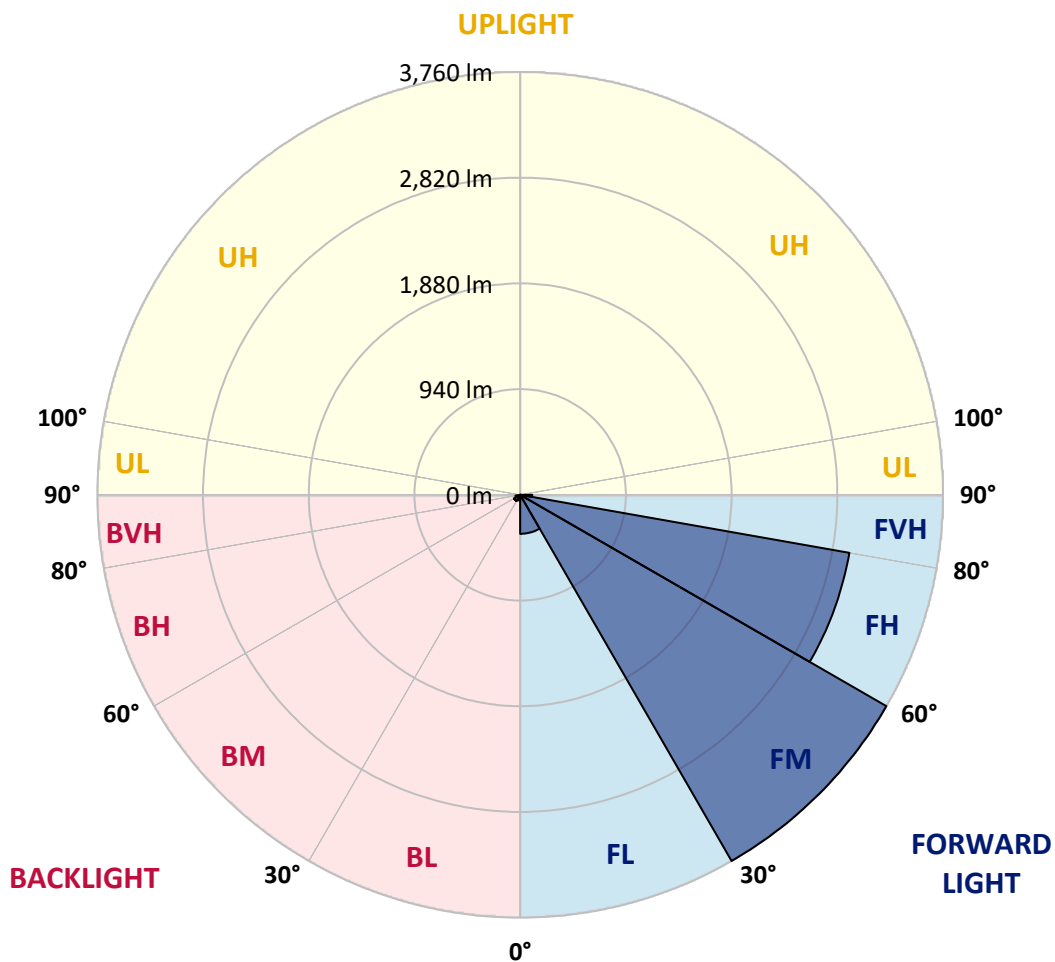
CATALOG NUMBER: OVF-F05-LED-E-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.9	4.7			
FM (30°-60°)	3759.5	51.2			
FH (60°-80°)	2972.2	40.5			G2/5000
FVH (80°-90°)	106.7	1.5			G2/225
BL (0°-30°)	50.1	0.7	B0/110		
BM (30°-60°)	62.8	0.9	B0/220		
BH (60°-80°)	42.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6
2.5°	368.3	372.3	369.7	363.0	355.0	344.3	335.0	335.0	333.7	329.6	331.0
5°	483.1	484.4	479.1	463.1	448.4	425.7	400.4	397.7	395.0	391.1	389.7
7.5°	595.2	600.6	595.2	577.9	548.5	513.8	473.8	469.8	461.8	461.8	456.4
10°	710.0	710.0	704.7	684.6	657.9	608.6	557.9	551.2	541.9	539.2	531.1
12.5°	791.4	791.4	788.7	778.1	756.7	712.7	651.3	644.6	632.6	628.6	619.2
15°	823.5	823.5	824.8	834.1	835.4	815.5	751.4	746.0	734.1	723.3	719.4
17.5°	843.4	842.1	842.1	855.5	879.5	892.8	851.4	846.2	832.8	827.4	814.1
20°	887.5	884.8	876.8	876.8	899.5	946.2	946.2	944.9	930.2	926.2	919.6
22.5°	952.9	950.3	926.2	906.2	916.8	975.6	1030.3	1027.6	1022.3	1017.0	1012.9
25°	1059.6	1050.3	1009.0	950.3	940.9	1003.6	1094.4	1101.0	1105.0	1105.0	1107.7
27.5°	1221.1	1209.1	1135.8	1026.3	984.9	1049.0	1165.1	1178.4	1190.5	1193.1	1205.1
30°	1445.3	1424.0	1318.6	1158.5	1063.7	1115.7	1269.2	1283.9	1301.2	1306.6	1325.2
32.5°	1813.7	1801.7	1700.3	1460.0	1257.2	1246.5	1414.6	1433.4	1456.1	1465.4	1488.1
35°	2374.2	2376.9	2294.1	2077.9	1797.7	1650.9	1674.9	1690.9	1698.9	1726.9	1739.0
37.5°	2754.6	2761.2	2780.0	2694.5	2494.3	2344.9	2156.7	2174.0	2132.7	2136.7	2138.0
40°	2962.8	2984.1	3093.6	3176.3	3160.3	3073.5	2922.8	2932.1	2854.7	2837.3	2753.2
42.5°	3101.6	3129.6	3304.4	3560.7	3691.5	3770.2	3735.5	3731.5	3671.4	3648.7	3578.0
45°	3188.3	3213.7	3433.9	3811.6	4113.2	4342.8	4437.5	4448.2	4397.5	4374.8	4316.0
47.5°	3184.3	3213.7	3449.9	3905.0	4349.4	4716.4	4983.4	4996.7	5027.4	5007.4	5011.3
50°	3008.1	3036.2	3273.7	3746.1	4280.0	4887.3	5375.7	5418.4	5467.8	5501.1	5517.1
52.5°	2794.6	2814.6	3025.5	3473.9	3983.7	4816.5	5608.0	5681.3	5754.7	5817.5	5861.5
55°	2715.9	2738.6	2904.0	3276.4	3746.1	4520.2	5716.0	5824.2	5928.3	6031.0	6115.1
57.5°	2757.3	2778.6	2897.3	3183.0	3604.7	4207.9	5746.7	5914.9	6085.7	6252.5	6418.0
60°	2909.4	2932.1	3033.5	3269.7	3567.3	4027.7	5626.6	5905.6	6189.8	6480.8	6754.4
62.5°	2849.3	2858.7	3008.1	3421.9	3834.2	3874.3	5190.2	5579.9	6013.6	6462.0	6903.8
63°	2791.9	2802.7	2954.8	3380.5	3915.7	3851.7	5055.4	5466.5	5924.2	6407.3	6887.8
65°	2531.7	2533.0	2649.2	2985.4	3824.9	3891.7	4454.9	4847.2	5373.0	5952.3	6559.5
67.5°	1889.8	1880.5	1992.6	2248.8	3002.8	3893.0	3823.6	4043.8	4409.5	4923.3	5467.8
70°	670.0	655.3	836.8	1191.8	1871.1	3184.3	3285.8	3300.4	3401.8	3679.4	4021.1
72.5°	217.5	221.6	266.9	436.4	862.2	2143.3	2974.8	2929.4	2902.7	2901.4	2946.8
75°	86.8	88.1	106.7	193.5	387.0	1033.0	2605.1	2630.5	2639.8	2653.2	2667.8
77.5°	41.4	45.4	60.0	108.1	192.2	511.2	1864.4	2079.2	2202.1	2296.9	2354.2
80°	14.7	17.3	33.4	66.7	89.4	234.9	982.3	1185.1	1365.3	1597.5	1797.7
82.5°	0.0	0.0	6.7	46.7	49.4	94.8	403.0	472.4	540.5	700.6	899.5
85°	0.0	0.0	0.0	13.4	14.7	16.0	136.1	164.1	184.2	214.9	248.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	8.0	20.0	30.7
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6
2.5°	328.3	327.0	327.0	324.3	322.9	320.3	319.0	314.9	313.6	313.6	313.6
5°	388.3	383.0	380.3	373.7	369.7	368.3	361.7	359.0	355.0	356.3	349.7
7.5°	455.1	445.8	441.7	432.4	429.8	420.4	417.7	411.0	407.1	399.1	396.3
10°	528.5	516.4	509.8	495.1	491.1	484.4	476.4	468.4	461.8	453.8	449.7
12.5°	612.5	601.9	596.5	576.5	567.2	557.9	547.2	536.5	525.9	519.2	509.8
15°	711.4	694.0	688.7	670.0	654.0	641.9	627.2	613.9	605.9	592.6	583.2
17.5°	808.8	791.4	787.4	759.4	742.1	734.1	718.0	700.6	686.0	672.6	657.9
20°	906.2	894.2	883.5	856.8	838.2	824.8	803.4	786.1	774.1	755.4	736.7
22.5°	1003.6	991.6	983.6	955.5	938.2	919.6	900.8	882.2	864.8	842.1	820.7
25°	1103.7	1095.7	1091.7	1066.3	1050.3	1033.0	1014.3	992.9	971.6	946.2	923.5
27.5°	1207.8	1210.5	1202.5	1197.1	1179.8	1167.8	1138.4	1123.7	1107.7	1077.0	1049.0
30°	1339.9	1347.9	1345.3	1349.2	1338.6	1330.6	1307.9	1289.2	1270.6	1241.2	1209.1
32.5°	1506.7	1517.4	1522.8	1537.5	1532.1	1529.5	1522.8	1496.1	1482.7	1432.0	1418.7
35°	1764.3	1758.9	1781.6	1793.7	1788.3	1785.7	1777.7	1763.0	1747.0	1710.9	1677.5
37.5°	2099.3	2104.7	2112.7	2088.7	2072.6	2071.2	2047.2	2032.6	2009.9	1969.9	1929.8
40°	2713.2	2679.8	2642.5	2541.0	2497.0	2471.6	2401.0	2380.9	2342.2	2287.4	2246.1
42.5°	3511.3	3477.9	3365.8	3196.3	3105.5	2980.1	2922.8	2852.0	2797.3	2707.9	2659.8
45°	4304.0	4207.9	4194.6	3997.1	3885.0	3719.5	3616.7	3497.9	3373.8	3256.4	3171.0
47.5°	4972.6	4951.3	4886.0	4765.8	4661.7	4522.9	4390.8	4207.9	4079.8	3913.0	3759.5
50°	5507.8	5506.5	5482.5	5413.0	5326.4	5214.3	5098.1	4943.3	4797.9	4593.6	4429.5
52.5°	5908.2	5929.6	5937.6	5916.2	5882.9	5784.1	5725.3	5595.9	5473.1	5299.6	5122.1
55°	6201.8	6280.6	6320.6	6366.0	6356.6	6322.0	6319.2	6235.2	6179.1	6041.7	5916.2
57.5°	6564.8	6694.3	6818.4	7038.6	7046.6	7124.0	7164.1	7204.1	7214.8	7160.0	7118.7
60°	7026.6	7290.9	7525.7	7986.1	8106.2	8295.8	8418.5	8552.0	8665.5	8674.8	8672.1
62.5°	7352.2	7759.3	8138.3	8821.6	9055.2	9274.0	9438.1	9567.7	9646.3	9726.4	9763.8
63°	7361.5	7807.3	8210.3	8915.0	9160.6	9368.8	9524.9	9645.0	9727.8	9775.9	9799.9
65°	7136.0	7676.6	8157.0	8859.0	9089.9	9299.4	9380.8	9459.5	9499.6	9518.2	9447.6
67.5°	6048.4	6576.9	7137.3	7922.1	8119.6	8370.5	8437.3	8477.3	8496.0	8491.9	8431.9
70°	4522.9	4966.0	5589.2	6486.1	6747.7	6993.2	7145.3	7210.8	7232.1	7225.4	7136.0
72.5°	3157.6	3417.8	3931.7	4930.0	5286.3	5601.3	5789.4	5886.8	5906.9	5866.8	5784.1
75°	2651.8	2665.2	2781.3	3327.1	3660.8	3997.1	4209.3	4270.7	4230.7	4109.2	3898.3
77.5°	2367.5	2396.9	2396.9	2478.3	2543.7	2637.1	2657.2	2507.7	2334.2	2110.0	1928.5
80°	1985.9	2088.7	2160.7	2220.7	2227.4	2208.8	2159.3	2075.3	1941.8	1771.0	1581.5
82.5°	1206.5	1409.3	1492.1	1801.7	1953.9	2056.6	2048.6	1936.5	1835.1	1657.6	1496.1
85°	304.3	328.3	356.3	463.1	519.2	633.9	706.0	739.3	751.4	690.0	624.6
87.5°	29.4	20.0	33.4	25.3	36.0	26.7	36.0	33.4	41.4	44.0	48.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6
2.5°	311.0	309.7	308.3	306.9	305.6	304.3	301.6	301.6	298.9	297.6	296.3
5°	345.6	343.0	341.7	339.0	335.0	332.3	328.3	322.9	319.0	317.7	314.9
7.5°	389.7	383.0	380.3	376.4	371.0	363.0	357.7	353.7	347.0	343.0	335.0
10°	439.1	432.4	424.4	416.4	408.4	399.1	392.4	387.0	376.4	371.0	361.7
12.5°	501.8	489.8	480.5	469.8	459.1	448.4	440.4	424.4	415.1	403.0	395.0
15°	565.9	555.2	544.5	531.1	515.1	497.8	489.8	475.1	463.1	444.4	433.7
17.5°	643.2	623.3	607.3	591.2	576.5	560.5	544.5	521.8	504.5	488.5	467.1
20°	719.4	695.3	678.0	656.6	635.2	609.9	591.2	575.2	551.2	529.8	507.1
22.5°	800.8	776.7	748.7	727.4	698.0	678.0	652.6	625.9	601.9	573.9	545.8
25°	899.5	874.1	842.1	814.1	780.7	752.7	722.0	691.3	662.0	630.0	593.9
27.5°	1020.9	994.3	959.6	926.2	882.2	847.5	818.1	776.7	739.3	699.3	657.9
30°	1174.5	1145.1	1102.4	1054.4	1010.3	971.6	930.2	875.5	834.1	786.1	732.7
32.5°	1374.6	1339.9	1282.5	1237.1	1182.5	1131.7	1074.3	1019.6	960.9	898.2	836.8
35°	1626.9	1594.8	1528.1	1461.3	1401.3	1341.2	1269.2	1206.5	1123.7	1047.7	968.9
37.5°	1888.5	1831.0	1769.7	1697.6	1622.8	1550.7	1462.7	1376.0	1281.2	1198.5	1099.7
40°	2187.4	2118.0	2067.3	1989.8	1884.4	1781.6	1700.3	1592.2	1473.4	1362.6	1246.5
42.5°	2597.1	2519.7	2428.9	2311.5	2235.4	2115.3	2009.9	1881.8	1725.6	1601.5	1461.3
45°	3070.9	2965.5	2877.4	2763.9	2671.8	2522.4	2399.6	2228.8	2072.6	1909.8	1739.0
47.5°	3611.4	3480.6	3352.5	3240.4	3093.6	2946.8	2790.6	2609.2	2409.0	2230.1	2027.2
50°	4232.0	4046.5	3869.0	3724.9	3523.3	3353.8	3184.3	2980.1	2758.6	2553.1	2322.2
52.5°	4921.9	4707.1	4472.2	4250.6	4017.1	3799.6	3595.4	3360.5	3113.5	2862.7	2605.1
55°	5754.7	5593.3	5317.0	5035.4	4723.1	4432.2	4169.2	3878.3	3578.0	3248.4	2977.4
57.5°	7058.7	6979.9	6749.0	6467.4	6060.3	5706.7	5260.9	4904.6	4469.6	4015.8	3666.1
60°	8825.6	8728.2	8598.8	8370.5	8047.5	7567.1	7076.0	6522.1	5860.2	5231.6	4635.0
62.5°	9767.9	9733.1	9627.7	9470.2	9168.6	8789.6	8294.5	7685.9	6938.5	6175.1	5414.4
63°	9795.8	9751.8	9661.0	9500.9	9235.3	8868.3	8382.5	7791.3	7060.0	6281.9	5505.2
65°	9416.8	9399.5	9307.4	9132.5	8951.1	8670.8	8294.5	7785.9	7172.1	6436.7	5664.0
67.5°	8351.8	8299.7	8158.3	8104.9	7978.1	7783.3	7496.3	7146.7	6707.6	6129.8	5462.4
70°	7063.9	6986.6	6809.0	6714.3	6559.5	6436.7	6261.9	6012.3	5741.4	5338.3	4840.5
72.5°	5698.7	5538.5	5375.7	5128.8	4912.6	4693.8	4500.2	4324.0	4026.4	3863.6	3485.9
75°	3700.8	3409.8	3131.0	2757.3	2420.9	2123.3	1833.7	1686.9	1381.3	1257.2	1079.7
77.5°	1756.3	1593.5	1374.6	1205.1	988.9	807.4	659.3	495.1	388.3	304.3	232.2
80°	1417.3	1279.9	1147.7	994.3	831.5	663.3	508.4	380.3	269.6	186.8	132.1
82.5°	1263.9	1114.4	951.6	846.2	735.4	601.9	493.8	403.0	297.6	217.5	148.1
85°	491.1	413.8	319.0	260.2	202.8	166.8	150.8	104.1	81.4	64.1	49.4
87.5°	42.7	34.7	28.0	18.7	20.0	10.6	12.0	8.0	6.7	6.7	5.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6
2.5°	295.0	293.6	292.2	289.6	289.6	287.0	285.6	284.2	277.6	262.9	250.9
5°	309.7	306.9	304.3	300.2	297.6	293.6	290.9	287.0	272.3	244.2	220.2
7.5°	331.0	325.7	321.6	313.6	309.7	304.3	300.2	293.6	269.6	226.9	193.5
10°	356.3	347.0	340.3	331.0	322.9	316.3	309.7	300.2	266.9	208.2	169.5
12.5°	387.0	376.4	363.0	352.3	341.7	332.3	322.9	311.0	262.9	192.2	150.8
15°	417.7	401.7	392.4	377.7	363.0	349.7	336.3	325.7	264.3	174.8	134.8
17.5°	452.4	436.4	416.4	400.4	384.4	367.0	351.0	329.6	257.6	161.5	122.8
20°	485.8	463.1	444.4	424.4	401.7	380.3	360.3	341.7	252.2	148.1	112.1
22.5°	521.8	495.1	471.1	445.8	417.7	393.7	369.7	345.6	242.9	136.1	102.8
25°	565.9	535.2	500.4	469.8	440.4	411.0	380.3	351.0	233.5	125.5	96.1
27.5°	619.2	579.2	544.5	505.8	464.4	427.0	393.7	361.7	224.2	117.5	89.4
30°	687.3	640.6	591.2	541.9	497.8	455.1	408.4	368.3	214.9	109.5	82.7
32.5°	778.1	719.4	659.3	601.9	543.2	488.5	439.1	387.0	209.5	102.8	76.0
35°	898.2	822.1	748.7	676.6	605.9	539.2	475.1	416.4	209.5	94.8	68.0
37.5°	1011.6	923.5	830.1	740.7	656.6	579.2	503.2	432.4	198.9	88.1	61.4
40°	1134.4	1028.9	919.6	814.1	712.7	616.6	529.8	448.4	189.5	80.1	54.7
42.5°	1322.6	1189.1	1046.4	923.5	802.1	683.3	575.2	479.1	177.5	72.1	48.0
45°	1569.5	1400.0	1231.8	1082.3	927.6	782.1	654.0	535.2	174.8	65.4	41.4
47.5°	1833.7	1633.5	1436.0	1245.1	1063.7	894.2	740.7	597.9	174.8	58.7	36.0
50°	2096.7	1845.7	1634.9	1413.3	1209.1	1009.0	826.1	663.3	176.2	53.4	29.4
52.5°	2334.2	2066.0	1829.7	1573.5	1347.9	1115.7	916.8	727.4	173.5	46.7	24.0
55°	2663.8	2348.9	2075.3	1792.4	1528.1	1266.5	1041.0	823.5	174.8	41.4	20.0
57.5°	3271.1	2901.4	2571.8	2200.8	1896.5	1558.8	1285.2	1020.9	190.9	34.7	14.7
60°	4142.6	3662.1	3199.0	2746.6	2359.5	1957.8	1602.8	1291.9	224.2	28.0	10.6
62.5°	4728.4	4099.8	3547.4	3048.2	2598.4	2178.1	1791.0	1437.3	246.9	22.7	6.7
63°	4788.5	4138.5	3583.4	3068.2	2609.2	2188.7	1799.0	1448.1	248.2	21.4	6.7
65°	4902.0	4205.3	3603.4	3072.2	2598.4	2174.0	1793.7	1446.6	250.9	17.3	5.4
67.5°	4772.4	4102.5	3487.3	2957.4	2505.1	2087.3	1726.9	1393.3	249.6	12.0	4.0
70°	4268.0	3712.8	3172.3	2678.5	2267.5	1889.8	1572.1	1270.6	229.6	8.0	2.6
72.5°	3133.6	2755.9	2336.9	1980.5	1708.3	1418.7	1210.5	954.2	177.5	5.4	1.3
75°	928.9	846.2	711.4	627.2	553.8	457.8	407.1	317.7	90.7	2.6	0.0
77.5°	185.5	168.2	150.8	137.4	129.4	110.8	105.4	86.8	37.4	1.3	0.0
80°	97.4	80.1	68.0	60.0	52.0	42.7	36.0	29.4	6.7	0.0	0.0
82.5°	93.4	62.7	45.4	37.4	32.0	25.3	20.0	14.7	4.0	0.0	0.0
85°	34.7	26.7	20.0	16.0	13.4	12.0	9.3	8.0	0.0	0.0	0.0
87.5°	5.4	4.0	4.0	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0
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: P163412

CATALOG NUMBER: OVF-F05-LED-E-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	281.6	281.6	281.6	281.6	281.6	281.6	281.6
2.5°	238.9	228.2	222.9	216.2	216.2	214.9	217.5
5°	198.9	184.2	173.5	165.5	166.8	162.8	164.1
7.5°	168.2	153.5	144.1	138.8	137.4	136.1	136.1
10°	145.5	132.1	124.1	120.1	118.8	118.8	118.8
12.5°	129.4	116.1	109.5	106.7	106.7	105.4	105.4
15°	116.1	105.4	98.7	96.1	96.1	94.8	96.1
17.5°	105.4	94.8	89.4	86.8	86.8	85.4	85.4
20°	96.1	86.8	81.4	77.4	77.4	76.0	77.4
22.5°	88.1	78.8	72.1	69.4	68.0	66.7	68.0
25°	80.1	70.7	64.1	60.0	58.7	58.7	57.4
27.5°	73.4	64.1	56.1	52.0	50.7	50.7	49.4
30°	66.7	56.1	48.0	44.0	42.7	42.7	42.7
32.5°	60.0	48.0	41.4	37.4	36.0	36.0	36.0
35°	53.4	41.4	34.7	30.7	29.4	29.4	29.4
37.5°	45.4	34.7	26.7	24.0	22.7	21.4	21.4
40°	38.7	26.7	20.0	17.3	14.7	14.7	14.7
42.5°	32.0	21.4	14.7	10.6	9.3	8.0	9.3
45°	26.7	16.0	9.3	5.4	4.0	4.0	4.0
47.5°	21.4	10.6	4.0	1.3	1.3	1.3	1.3
50°	16.0	6.7	1.3	0.0	0.0	1.3	1.3
52.5°	12.0	4.0	0.0	0.0	0.0	0.0	0.0
55°	6.7	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	4.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)