

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: P163972

Luminaire Tested: **OVF-F05-LED-E-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163972
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-SL4-HSS
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 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: 8146.8 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

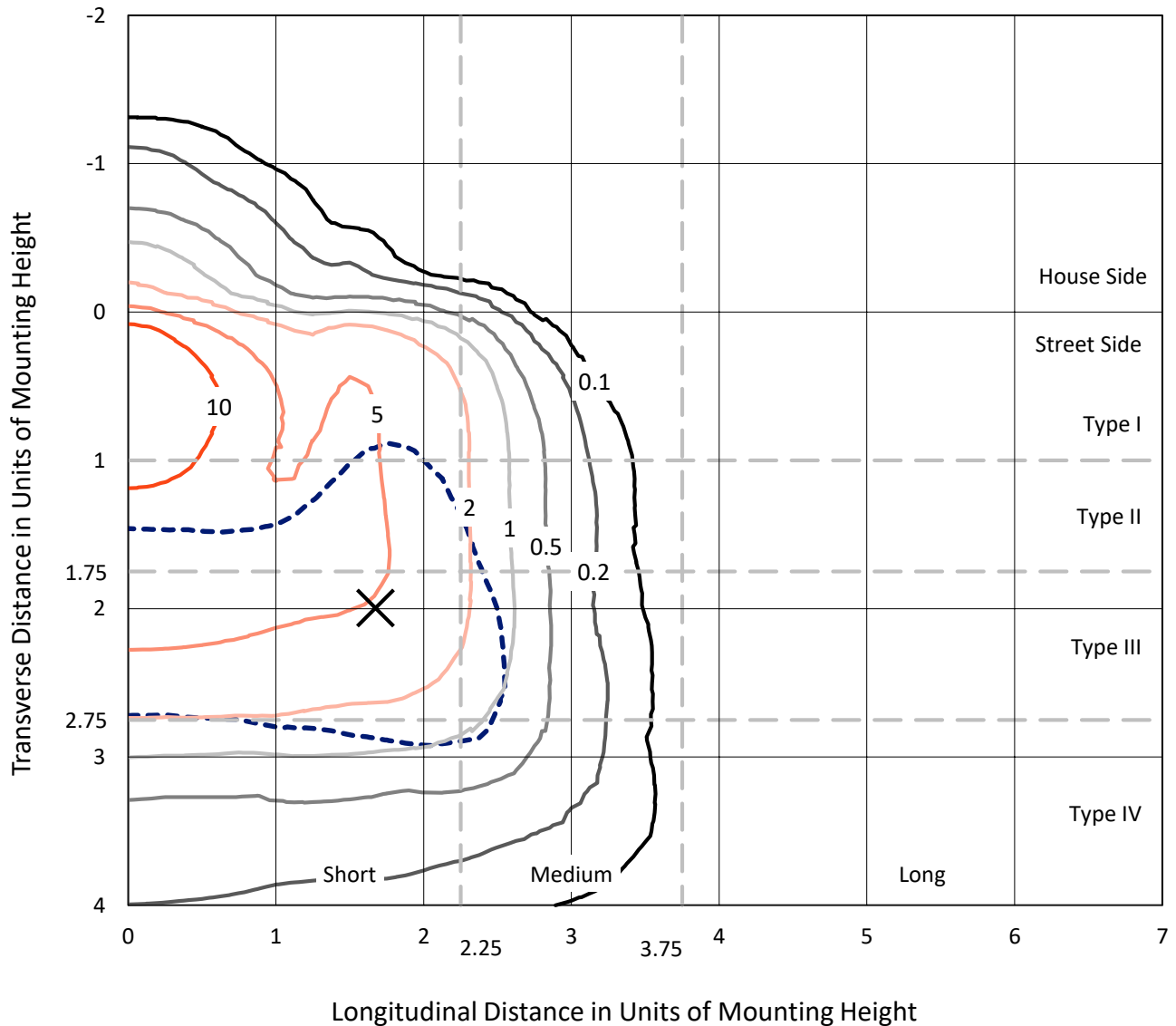
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P163972
 CATALOG NUMBER: OVF-F05-LED-E-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

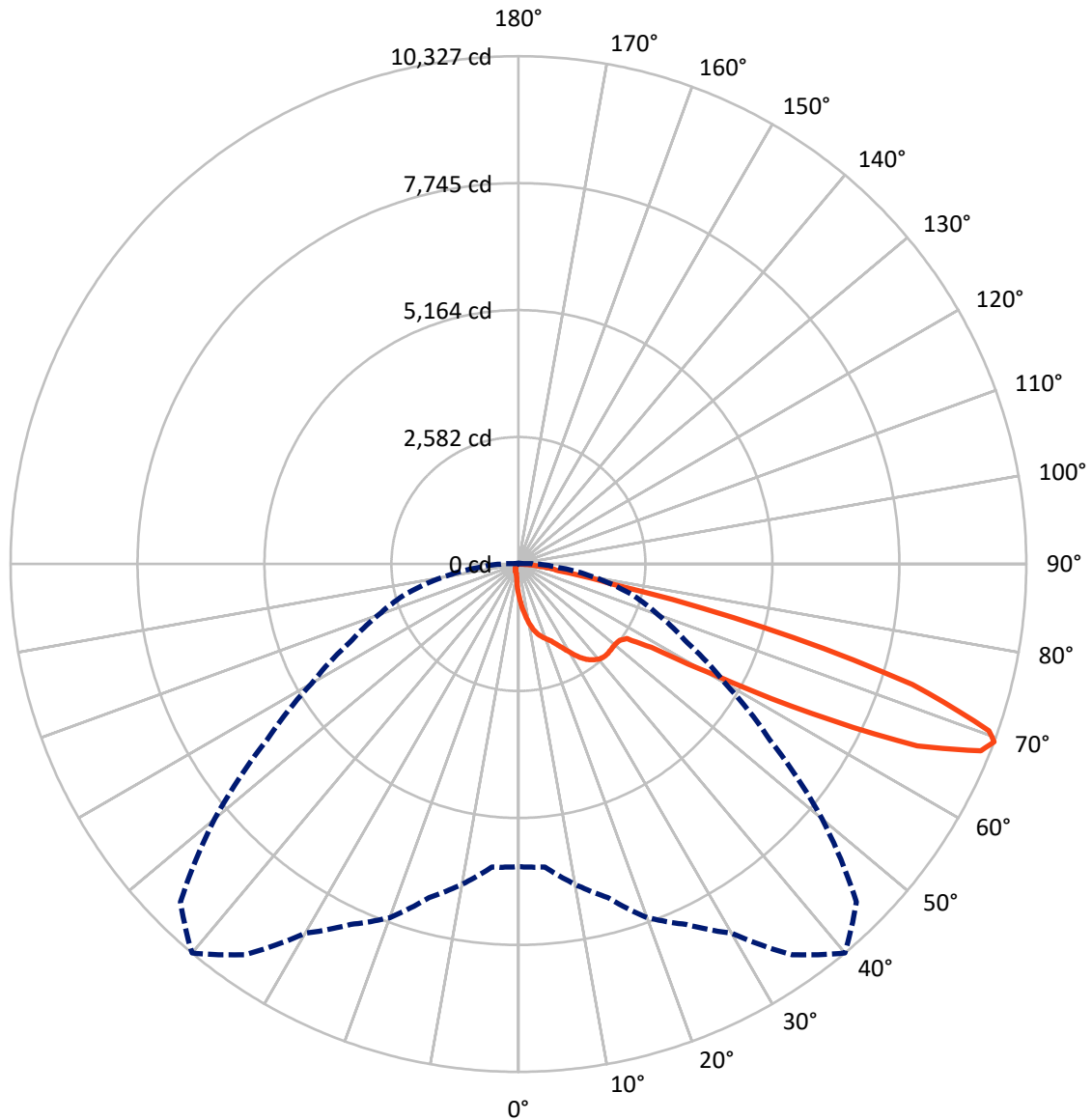


Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P163972

CATALOG NUMBER: OVF-F05-LED-E-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P163972

CATALOG NUMBER: OVF-F05-LED-E-U-SL4-HSS

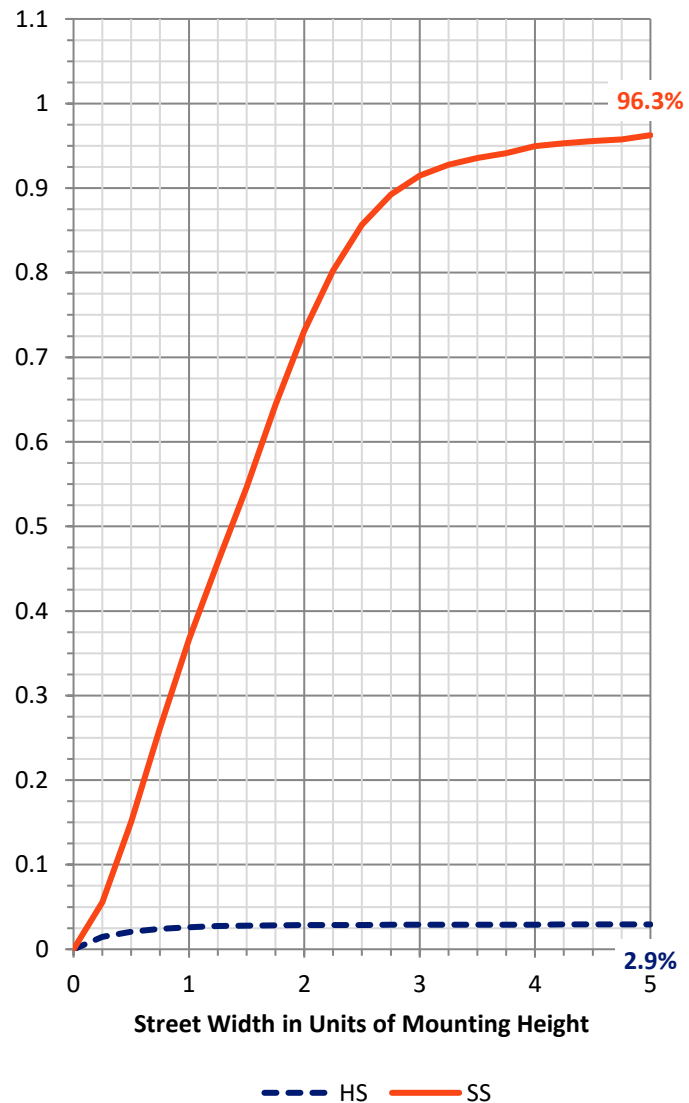
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	242.6	0.0	242.6
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	7904.3	0.0	7904.3
	% Fixture	97.0	0.0	97.0
Total	Lumens	8146.8	0.0	8146.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	0.8
10°-20°	218.0	2.7
20°-30°	417.3	5.1
30°-40°	694.0	8.5
40°-50°	939.0	11.5
50°-60°	1468.6	18.0
60°-70°	3019.4	37.1
70°-80°	1214.9	14.9
80°-90°	112.4	1.4
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°	8146.8	100.0
0°-180°	8146.8	100.0



REPORT NUMBER: P163972

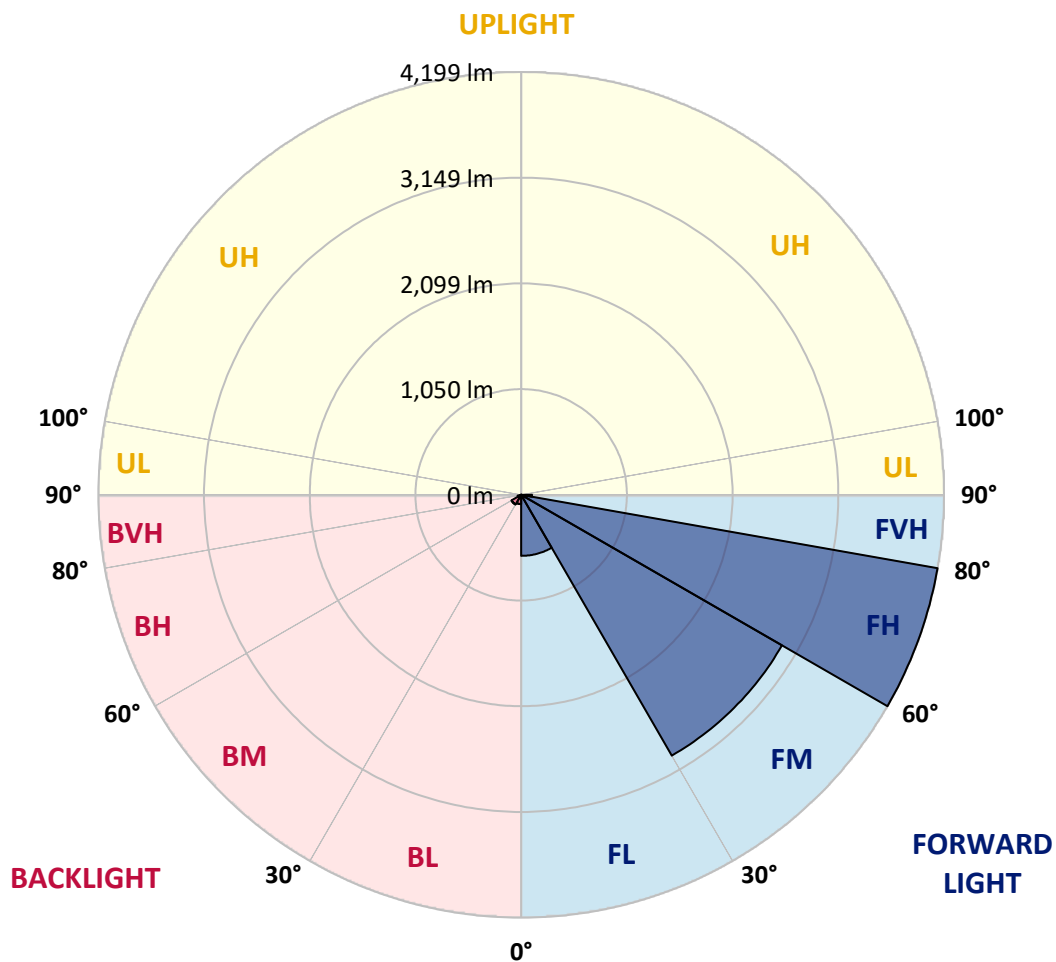
CATALOG NUMBER: OVF-F05-LED-E-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.3	7.4			
FM (30°-60°)	2990.8	36.7			
FH (60°-80°)	4198.9	51.5			G2/5000
FVH (80°-90°)	108.2	1.3			G2/225
BL (0°-30°)	92.3	1.1	B0/110		
BM (30°-60°)	110.8	1.4	B0/220		
BH (60°-80°)	35.4	0.4	B0/110		G0/110
BVH (80°-90°)	4.2	0.1			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 IV Short





REPORT NUMBER: P163972

CATALOG NUMBER: OVF-F05-LED-E-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3
2.5°	820.7	811.4	800.8	800.8	787.4	787.4	779.4	758.1	755.4	743.4	731.3
5°	1047.7	1039.7	1026.3	1014.3	1003.6	984.9	971.6	946.2	918.2	891.5	867.5
7.5°	1269.2	1265.2	1241.2	1237.1	1219.8	1189.1	1162.4	1125.0	1077.0	1039.7	995.6
10°	1474.7	1465.4	1460.0	1437.3	1412.0	1378.6	1337.3	1291.9	1235.8	1177.1	1114.4
12.5°	1637.5	1632.2	1608.2	1598.8	1572.1	1538.8	1486.7	1428.0	1371.9	1295.9	1222.5
15°	1758.9	1749.6	1733.6	1718.9	1686.9	1657.6	1609.5	1545.5	1477.4	1394.6	1306.6
17.5°	1860.4	1843.1	1839.0	1816.4	1783.0	1748.3	1694.9	1636.2	1556.1	1473.4	1377.3
20°	1996.5	1972.5	1964.5	1931.2	1892.4	1844.4	1783.0	1709.6	1625.5	1534.7	1436.0
22.5°	2156.7	2139.3	2122.0	2092.6	2043.3	1975.2	1885.7	1805.7	1698.9	1598.8	1492.1
25°	2383.5	2368.9	2340.9	2300.8	2239.4	2158.0	2049.9	1932.5	1807.0	1678.9	1553.5
27.5°	2603.8	2590.4	2570.4	2539.7	2470.3	2380.9	2247.4	2098.0	1939.2	1784.4	1645.5
30°	2810.7	2798.6	2778.6	2747.9	2686.5	2598.4	2447.6	2287.4	2090.0	1909.8	1742.9
32.5°	3033.5	3029.5	3006.8	2962.8	2909.4	2790.6	2626.5	2454.3	2254.1	2045.9	1851.1
35°	3285.8	3255.0	3233.7	3189.7	3098.9	2972.1	2780.0	2591.7	2380.9	2167.3	1949.8
37.5°	3499.3	3469.9	3443.3	3387.2	3276.4	3115.0	2897.3	2690.6	2473.0	2255.4	2033.9
40°	3655.4	3640.7	3608.7	3535.3	3411.2	3219.1	2984.1	2758.6	2539.7	2320.9	2102.0
42.5°	3771.6	3748.9	3712.8	3636.8	3489.9	3271.1	3018.9	2786.6	2570.4	2360.9	2146.0
45°	3814.3	3795.6	3762.2	3679.4	3520.6	3285.8	3017.5	2778.6	2571.8	2372.9	2175.3
47.5°	3788.9	3770.2	3740.9	3663.4	3507.3	3268.4	2993.4	2755.9	2558.4	2376.9	2202.1
50°	3704.8	3694.1	3671.4	3606.1	3465.9	3235.1	2972.1	2743.9	2555.7	2396.9	2239.4
52.5°	3696.8	3690.1	3662.1	3596.7	3453.9	3224.3	2969.4	2750.6	2578.4	2422.3	2266.1
55°	4517.6	4422.8	4210.6	4030.5	3734.2	3381.8	3104.2	2858.7	2674.5	2522.4	2412.9
57.5°	6420.7	6279.2	6000.3	5657.3	4976.7	4308.0	3772.9	3385.8	3195.0	3125.6	3167.0
60°	7312.2	7286.8	7242.8	7079.9	6731.7	6156.4	5515.8	4823.2	4545.6	4521.6	4605.7
62.5°	7735.3	7719.2	7732.6	7712.5	7604.5	7436.3	7252.2	6953.1	6678.2	6500.8	6124.4
65°	7930.1	7940.8	8016.8	8076.9	8090.2	8134.3	8269.1	8641.4	8913.7	8455.9	7411.0
67.5°	7435.0	7497.7	7672.5	7891.4	8147.6	8395.8	8796.2	9581.0	10140.2	9602.3	8118.3
69°	6155.1	6185.8	6612.9	7025.2	7651.2	8088.9	8669.5	9698.4	10327.0	9719.8	8062.2
70°	4845.9	4873.9	5331.7	5892.2	6950.5	7513.7	8273.1	9499.6	10152.2	9563.6	7774.0
72.5°	2186.1	2146.0	2307.5	2607.8	3758.2	4652.3	5980.3	7696.5	8375.9	7661.9	5816.2
75°	1526.7	1509.4	1526.7	1528.1	1706.9	2202.1	2778.6	4171.9	5159.5	4452.1	2778.6
77.5°	1182.5	1170.4	1158.5	1145.1	1166.5	1306.6	1362.6	1480.1	1921.8	1817.7	1059.6
80°	935.6	924.8	954.2	944.9	944.9	960.9	950.3	906.2	823.5	763.4	683.3
82.5°	435.1	437.8	437.8	475.1	572.5	668.6	699.3	655.3	581.9	495.1	399.1
85°	41.4	46.7	78.8	121.4	241.5	272.3	273.6	226.9	226.9	178.8	144.1
87.5°	0.0	1.3	1.3	1.3	12.0	33.4	28.0	8.0	4.0	4.0	6.7
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: P163972

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3
2.5°	710.0	706.0	690.0	674.0	659.3	643.2	628.6	613.9	597.9	585.9	571.2
5°	830.1	800.8	767.4	735.4	703.3	670.0	635.2	604.5	572.5	543.2	515.1
7.5°	951.6	894.2	848.8	791.4	739.3	687.3	639.3	589.9	544.5	501.8	461.8
10°	1054.4	984.9	914.2	840.8	766.1	696.7	630.0	571.2	511.2	459.1	409.7
12.5°	1138.4	1050.3	963.6	871.5	787.4	699.3	616.6	545.8	475.1	416.4	365.7
15°	1214.5	1113.1	1009.0	902.2	795.4	695.3	603.2	515.1	443.1	376.4	319.0
17.5°	1275.8	1159.8	1042.3	922.2	807.4	690.0	585.9	493.8	409.7	340.3	284.2
20°	1329.3	1207.8	1081.0	946.2	815.5	688.7	571.2	467.1	380.3	306.9	252.2
22.5°	1378.6	1257.2	1121.1	976.9	827.4	687.3	557.9	447.1	355.0	281.6	226.9
25°	1434.7	1306.6	1163.7	1009.0	848.8	692.6	549.9	431.1	332.3	257.6	206.9
27.5°	1497.4	1362.6	1214.5	1049.0	876.8	703.3	547.2	413.8	312.3	234.9	190.9
30°	1585.5	1429.3	1265.2	1089.0	902.2	715.3	544.5	403.0	292.2	217.5	174.8
32.5°	1662.9	1494.7	1321.3	1130.4	930.2	727.4	543.2	388.3	273.6	200.2	162.8
35°	1744.3	1554.8	1369.3	1170.4	954.2	740.7	541.9	377.7	256.2	182.9	150.8
37.5°	1815.0	1605.5	1406.6	1205.1	980.9	752.7	543.2	368.3	240.2	168.2	140.1
40°	1875.1	1657.6	1448.1	1237.1	1009.0	771.4	544.5	359.0	224.2	154.8	130.8
42.5°	1928.5	1706.9	1492.1	1273.2	1041.0	792.8	552.5	351.0	210.8	142.8	121.4
45°	1969.9	1752.3	1540.1	1323.9	1093.0	827.4	567.2	345.6	197.5	132.1	113.4
47.5°	2012.5	1819.0	1621.5	1404.0	1169.1	882.2	592.6	344.3	186.8	124.1	106.7
50°	2071.2	1885.7	1693.6	1485.4	1238.5	938.2	623.3	345.6	173.5	116.1	100.1
52.5°	2114.0	1953.9	1787.0	1626.9	1404.0	1109.0	742.1	369.7	166.8	109.5	92.0
55°	2366.2	2338.2	2342.2	2368.9	2196.7	1887.1	1241.2	533.9	196.1	124.1	90.7
57.5°	3336.4	3435.3	3492.6	3491.3	3207.0	2659.8	1666.9	686.0	218.8	144.1	108.1
60°	4612.3	4537.6	4432.2	4171.9	3794.2	3036.2	1864.4	738.0	189.5	114.7	98.7
62.5°	5740.0	5302.3	4913.9	4492.2	3997.1	3167.0	1904.5	734.1	165.5	86.8	69.4
65°	6443.4	5656.0	5028.7	4500.2	3917.0	3057.5	1801.7	674.0	140.1	70.7	57.4
67.5°	6611.5	5465.1	4577.6	3903.7	3272.4	2379.6	1322.6	507.1	109.5	58.7	50.7
69°	6244.5	4857.9	3792.9	3028.2	2380.9	1578.8	818.1	320.3	84.0	53.4	46.7
70°	5744.1	4225.3	3089.5	2430.3	1763.0	1109.0	572.5	225.5	68.0	49.4	42.7
72.5°	3695.5	2219.4	1518.7	1057.0	727.4	441.7	224.2	101.5	52.0	41.4	34.7
75°	1433.4	820.7	595.2	452.4	353.7	245.6	136.1	65.4	44.0	34.7	26.7
77.5°	706.0	540.5	441.7	303.0	176.2	109.5	73.4	50.7	36.0	25.3	17.3
80°	557.9	371.0	221.6	137.4	104.1	78.8	56.1	41.4	26.7	16.0	12.0
82.5°	285.6	156.1	114.7	93.4	77.4	61.4	45.4	29.4	17.3	10.6	9.3
85°	89.4	65.4	58.7	57.4	53.4	44.0	32.0	18.7	10.6	6.7	6.7
87.5°	6.7	9.3	12.0	9.3	10.6	9.3	12.0	8.0	5.4	5.4	4.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3
2.5°	560.5	544.5	529.8	520.5	503.2	496.5	489.8	487.1	475.1	477.8	467.1
5°	489.8	461.8	440.4	419.0	399.1	384.4	372.3	357.7	345.6	340.3	329.6
7.5°	425.7	389.7	361.7	339.0	314.9	296.3	280.3	269.6	258.9	248.2	242.9
10°	369.7	331.0	298.9	276.2	253.6	237.6	225.5	217.5	210.8	206.9	205.6
12.5°	317.7	280.3	250.9	230.9	213.6	205.6	200.2	196.1	194.8	193.5	193.5
15°	277.6	240.2	217.5	202.8	194.8	190.9	189.5	186.8	184.2	182.9	182.9
17.5°	240.2	212.2	196.1	188.1	184.2	181.5	178.8	176.2	173.5	172.1	172.1
20°	214.9	192.2	184.2	178.8	174.8	172.1	168.2	165.5	164.1	162.8	161.5
22.5°	194.8	180.1	174.8	170.8	165.5	161.5	158.8	156.1	153.5	152.1	150.8
25°	180.1	170.8	166.8	161.5	156.1	152.1	148.1	144.1	141.5	140.1	137.4
27.5°	169.5	162.8	157.5	150.8	145.5	141.5	137.4	133.5	130.8	128.1	126.8
30°	160.2	153.5	146.8	141.5	134.8	130.8	125.5	121.4	120.1	117.5	114.7
32.5°	150.8	144.1	137.4	130.8	124.1	118.8	116.1	110.8	108.1	106.7	104.1
35°	140.1	133.5	125.5	120.1	113.4	108.1	104.1	100.1	97.4	94.8	93.4
37.5°	130.8	122.8	114.7	108.1	102.8	97.4	93.4	89.4	86.8	84.0	82.7
40°	120.1	112.1	104.1	97.4	92.0	88.1	84.0	80.1	77.4	76.0	76.0
42.5°	110.8	101.5	93.4	88.1	84.0	78.8	74.7	70.7	69.4	68.0	69.4
45°	101.5	92.0	85.4	80.1	76.0	70.7	66.7	64.1	62.7	64.1	65.4
47.5°	93.4	84.0	77.4	73.4	69.4	65.4	61.4	58.7	58.7	61.4	64.1
50°	85.4	76.0	70.7	68.0	64.1	60.0	54.7	53.4	54.7	57.4	60.0
52.5°	77.4	66.7	62.7	61.4	57.4	53.4	49.4	48.0	49.4	52.0	50.7
55°	69.4	58.7	57.4	56.1	52.0	46.7	42.7	42.7	42.7	41.4	38.7
57.5°	66.7	52.0	50.7	49.4	45.4	40.0	37.4	34.7	33.4	29.4	28.0
60°	69.4	46.7	46.7	44.0	40.0	34.7	30.7	26.7	24.0	21.4	21.4
62.5°	56.1	42.7	41.4	38.7	33.4	28.0	24.0	20.0	18.7	17.3	17.3
65°	45.4	38.7	36.0	32.0	28.0	22.7	18.7	16.0	14.7	14.7	16.0
67.5°	41.4	34.7	30.7	26.7	22.7	17.3	14.7	13.4	13.4	14.7	14.7
69°	38.7	32.0	28.0	24.0	20.0	16.0	13.4	13.4	13.4	13.4	14.7
70°	36.0	30.7	26.7	22.7	17.3	13.4	12.0	12.0	13.4	13.4	14.7
72.5°	28.0	24.0	22.7	18.7	13.4	12.0	10.6	12.0	12.0	13.4	13.4
75°	21.4	17.3	17.3	14.7	10.6	9.3	9.3	10.6	10.6	12.0	12.0
77.5°	14.7	12.0	12.0	10.6	9.3	8.0	8.0	9.3	10.6	10.6	12.0
80°	10.6	9.3	8.0	9.3	8.0	6.7	8.0	9.3	9.3	10.6	10.6
82.5°	8.0	8.0	8.0	8.0	6.7	6.7	8.0	8.0	9.3	10.6	10.6
85°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.0	8.0	9.3	9.3
87.5°	4.0	4.0	4.0	5.4	5.4	6.7	6.7	6.7	6.7	8.0	8.0
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: P163972

CATALOG NUMBER: OVF-F05-LED-E-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	615.3	615.3	615.3	615.3
2.5°	464.4	463.1	457.8	459.1
5°	325.7	317.7	322.9	321.6
7.5°	238.9	237.6	236.2	238.9
10°	204.2	204.2	202.8	204.2
12.5°	192.2	192.2	192.2	192.2
15°	182.9	182.9	181.5	181.5
17.5°	172.1	172.1	172.1	170.8
20°	161.5	160.2	160.2	160.2
22.5°	149.5	148.1	148.1	148.1
25°	137.4	136.1	136.1	136.1
27.5°	125.5	124.1	122.8	122.8
30°	113.4	112.1	110.8	110.8
32.5°	101.5	100.1	98.7	98.7
35°	90.7	90.7	89.4	88.1
37.5°	81.4	81.4	81.4	81.4
40°	74.7	76.0	76.0	76.0
42.5°	70.7	72.1	73.4	74.7
45°	68.0	70.7	72.1	72.1
47.5°	66.7	68.0	69.4	69.4
50°	61.4	60.0	60.0	60.0
52.5°	49.4	46.7	45.4	44.0
55°	36.0	34.7	32.0	32.0
57.5°	25.3	25.3	24.0	24.0
60°	20.0	20.0	18.7	20.0
62.5°	17.3	17.3	17.3	17.3
65°	16.0	16.0	16.0	16.0
67.5°	16.0	16.0	16.0	16.0
69°	14.7	14.7	14.7	14.7
70°	14.7	14.7	14.7	14.7
72.5°	13.4	13.4	13.4	13.4
75°	12.0	13.4	13.4	13.4
77.5°	12.0	12.0	12.0	12.0
80°	10.6	10.6	12.0	12.0
82.5°	10.6	10.6	10.6	10.6
85°	9.3	9.3	10.6	10.6
87.5°	8.0	8.0	9.3	9.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)