

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: P165501

Luminaire Tested: **VST-F06-LED-E-U-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165501
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: VST-F06-LED-E-U-SL4-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9095.4 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5
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

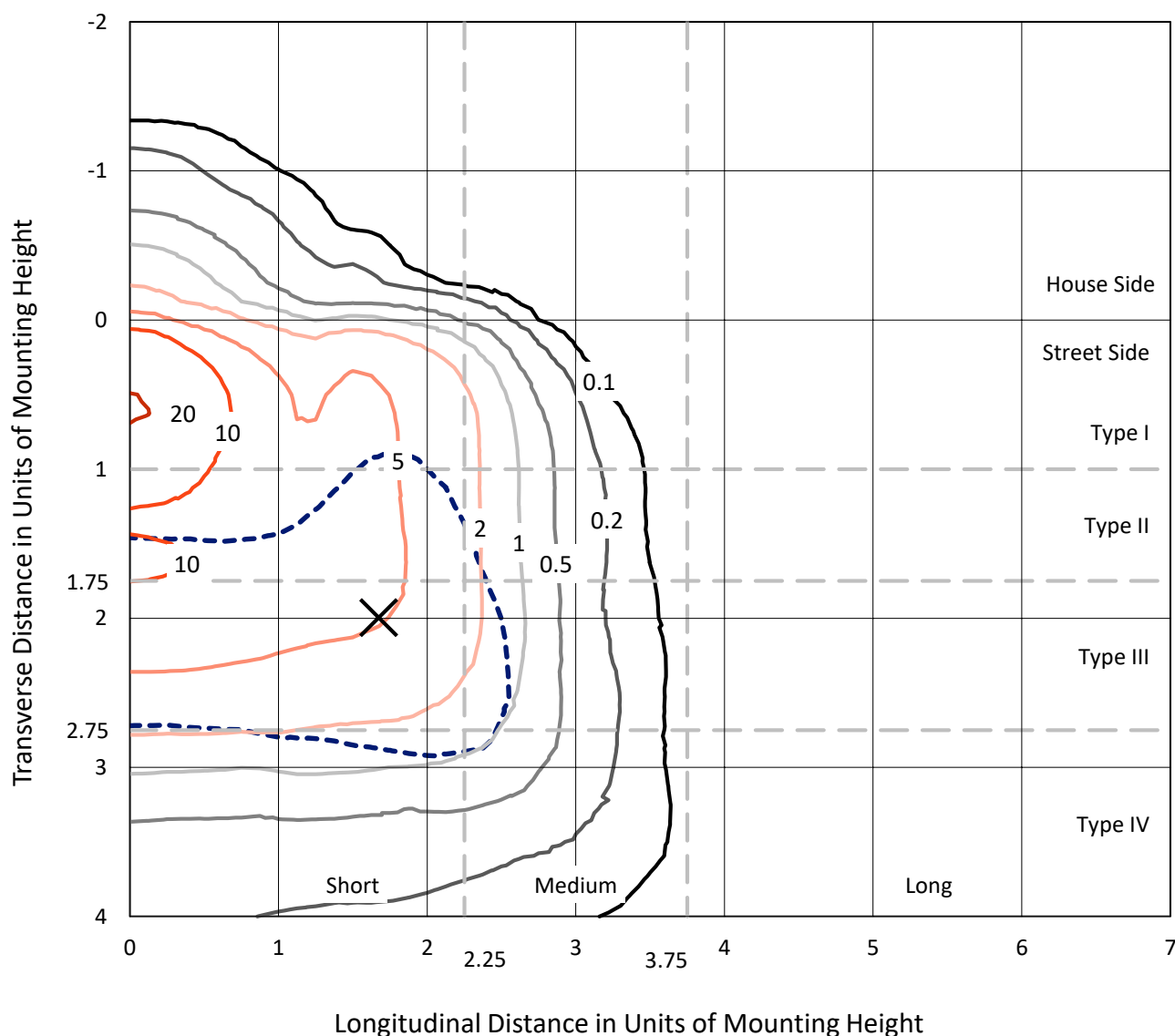


REPORT NUMBER: P165501

CATALOG NUMBER: VST-F06-LED-E-U-SL4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

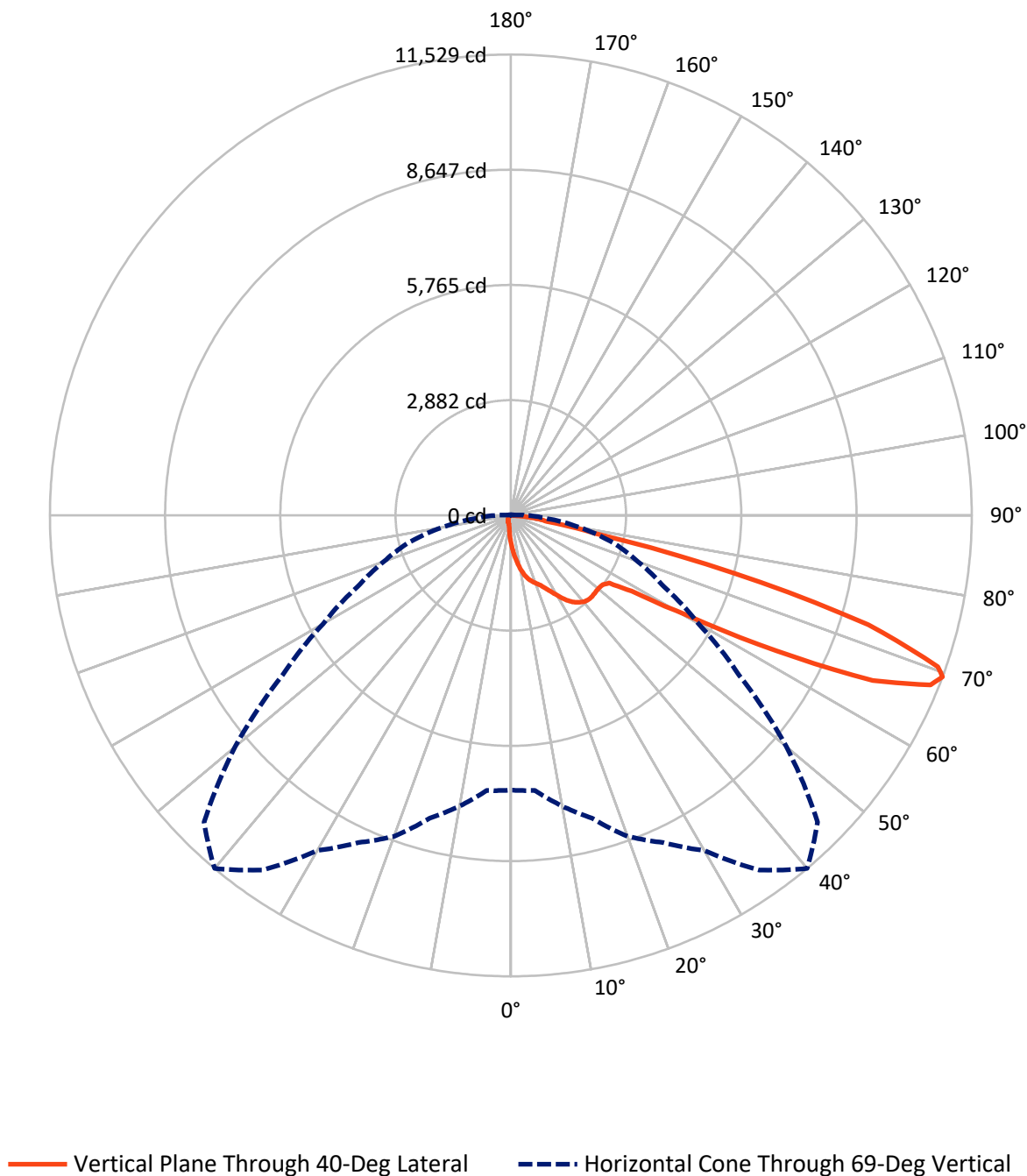


Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P165501

CATALOG NUMBER: VST-F06-LED-E-U-SL4-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P165501

CATALOG NUMBER: VST-F06-LED-E-U-SL4-HSS-7030

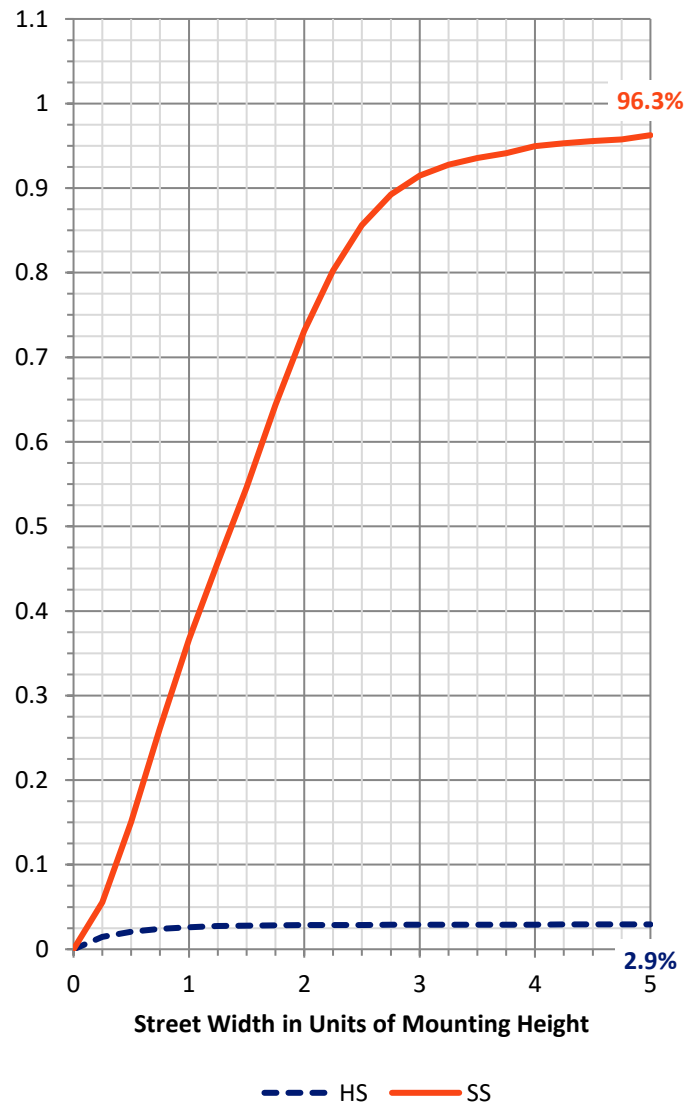
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	270.9	0.0	270.9
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	8824.5	0.0	8824.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	9095.4	0.0	9095.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	0.8
10°-20°	243.4	2.7
20°-30°	465.9	5.1
30°-40°	774.8	8.5
40°-50°	1048.4	11.5
50°-60°	1639.6	18.0
60°-70°	3370.9	37.1
70°-80°	1356.4	14.9
80°-90°	125.5	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°	9095.4	100.0
0°-180°	9095.4	100.0

Coefficient of Utilization



REPORT NUMBER: P165501

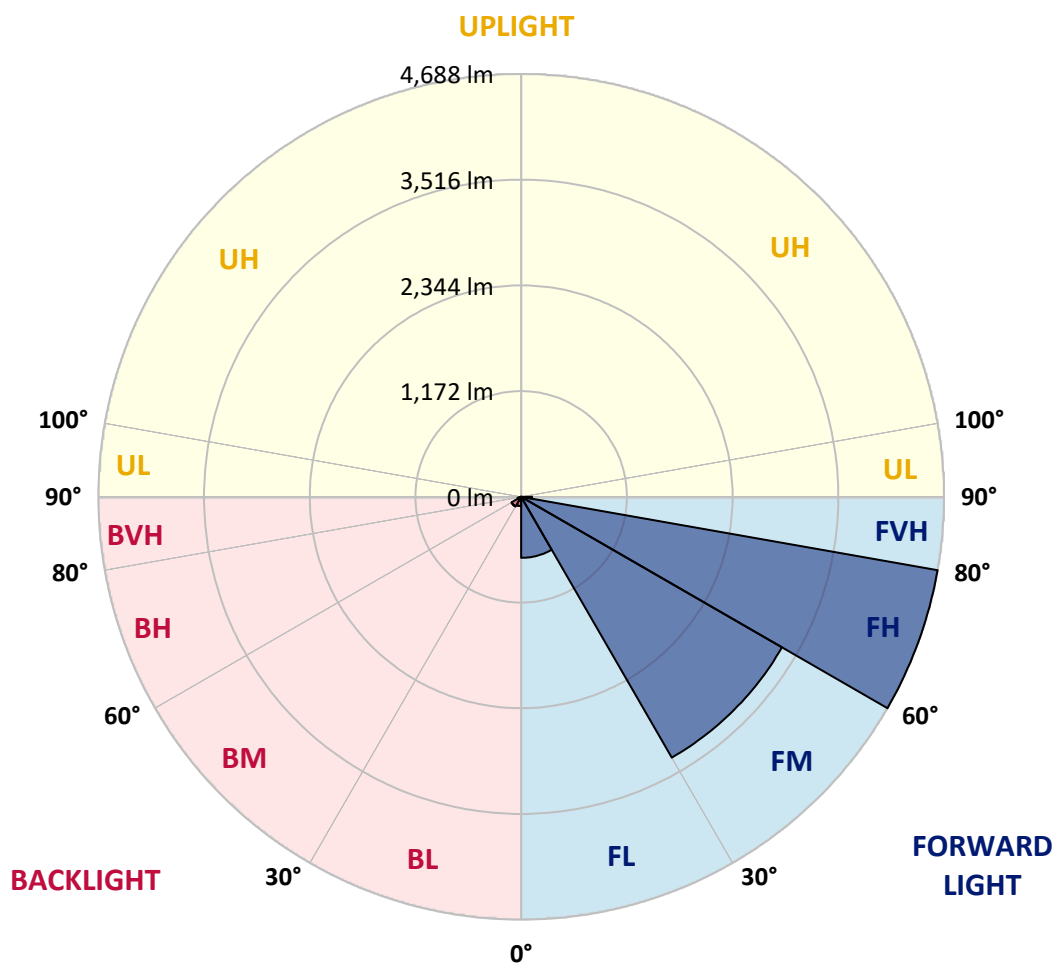
CATALOG NUMBER: VST-F06-LED-E-U-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	676.9	7.4			
FM	(30°-60°)	3339.1	36.7			
FH	(60°-80°)	4687.8	51.5			G2/5000
FVH	(80°-90°)	120.8	1.3			G2/225
BL	(0°-30°)	103.0	1.1	B0/110		
BM	(30°-60°)	123.7	1.4	B0/220		
BH	(60°-80°)	39.5	0.4	B0/110		G0/110
BVH	(80°-90°)	4.7	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: P165501

CATALOG NUMBER: VST-F06-LED-E-U-SL4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	916.4	905.9	893.9	893.9	879.1	879.1	870.1	846.3	843.4	829.9	816.5
5°	1169.6	1160.7	1145.8	1132.3	1120.5	1099.6	1084.7	1056.3	1025.1	995.3	968.5
7.5°	1417.0	1412.5	1385.7	1381.2	1361.8	1327.6	1297.7	1256.0	1202.4	1160.7	1111.5
10°	1646.5	1636.0	1630.0	1604.6	1576.4	1539.1	1492.9	1442.3	1379.7	1314.1	1244.1
12.5°	1828.2	1822.3	1795.4	1785.0	1755.2	1717.9	1659.8	1594.2	1531.7	1446.8	1364.8
15°	1963.8	1953.4	1935.4	1919.1	1883.3	1850.6	1796.9	1725.3	1649.4	1557.1	1458.7
17.5°	2077.0	2057.7	2053.2	2027.8	1990.6	1951.8	1892.3	1826.7	1737.3	1644.9	1537.6
20°	2229.0	2202.2	2193.2	2155.9	2112.8	2059.1	1990.6	1908.7	1814.7	1713.5	1603.2
22.5°	2407.7	2388.4	2369.0	2336.3	2281.2	2205.2	2105.4	2016.0	1896.7	1785.0	1665.8
25°	2661.1	2644.7	2613.4	2568.7	2500.1	2409.3	2288.6	2157.5	2017.4	1874.4	1734.3
27.5°	2906.9	2892.0	2869.6	2835.4	2757.9	2658.1	2509.1	2342.2	2164.9	1992.1	1837.1
30°	3137.9	3124.4	3102.1	3067.9	2999.3	2900.9	2732.6	2553.8	2333.3	2132.1	1945.9
32.5°	3386.7	3382.2	3356.9	3307.7	3248.1	3115.6	2932.3	2740.1	2516.6	2284.1	2066.5
35°	3668.3	3634.0	3610.2	3561.0	3459.7	3318.1	3103.6	2893.5	2658.1	2419.7	2176.8
37.5°	3906.7	3874.0	3844.1	3781.6	3657.9	3477.6	3234.7	3003.7	2760.9	2518.0	2270.7
40°	4081.0	4064.6	4028.9	3946.9	3808.4	3593.8	3331.5	3079.7	2835.4	2591.1	2346.7
42.5°	4210.6	4185.3	4145.1	4060.2	3896.3	3651.9	3370.3	3111.0	2869.6	2635.8	2395.9
45°	4258.3	4237.5	4200.2	4107.8	3930.5	3668.3	3368.8	3102.1	2871.2	2649.1	2428.6
47.5°	4230.0	4209.2	4176.3	4089.9	3915.7	3648.9	3342.0	3076.7	2856.2	2653.7	2458.4
50°	4136.2	4124.2	4098.9	4025.9	3869.4	3611.7	3318.1	3063.4	2853.3	2676.0	2500.1
52.5°	4127.2	4119.8	4088.5	4015.5	3856.0	3599.7	3315.2	3070.9	2878.6	2704.3	2530.0
55°	5043.5	4937.7	4700.8	4499.7	4168.9	3775.6	3465.6	3191.5	2985.9	2816.1	2693.8
57.5°	7168.2	7010.3	6698.9	6316.0	5556.1	4809.6	4212.2	3780.0	3567.0	3489.5	3535.7
60°	8163.5	8135.3	8086.0	7904.3	7515.4	6873.3	6158.0	5384.8	5074.8	5048.0	5141.8
62.5°	8635.9	8618.0	8632.9	8610.5	8489.8	8302.1	8096.4	7762.8	7455.8	7257.6	6837.4
65°	8853.4	8865.3	8950.2	9017.2	9032.2	9081.3	9231.9	9647.5	9951.4	9440.4	8273.8
67.5°	8300.6	8370.6	8565.8	8810.1	9096.2	9373.4	9820.3	10696.5	11320.8	10720.3	9063.5
69°	6871.7	6906.0	7382.7	7843.2	8542.0	9030.7	9678.8	10827.6	11529.4	10851.4	9000.9
70°	5410.0	5441.3	5952.4	6578.2	7759.8	8388.5	9236.3	10605.6	11334.2	10677.1	8679.0
72.5°	2440.6	2395.9	2576.1	2911.3	4195.7	5194.0	6676.6	8592.6	9351.0	8553.9	6493.2
75°	1704.5	1685.2	1704.5	1706.0	1905.7	2458.4	3102.1	4657.6	5760.2	4970.6	3102.1
77.5°	1320.1	1306.7	1293.3	1278.4	1302.3	1458.7	1521.2	1652.3	2145.5	2029.4	1183.0
80°	1044.5	1032.5	1065.3	1054.9	1054.9	1072.8	1060.9	1011.6	919.3	852.2	762.8
82.5°	485.7	488.7	488.7	530.4	639.2	746.5	780.7	731.6	649.6	552.7	445.5
85°	46.1	52.1	87.9	135.6	269.7	303.9	305.5	253.3	253.3	199.7	160.9
87.5°	0.0	1.4	1.4	1.4	13.4	37.3	31.3	9.0	4.4	4.4	7.4
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: P165501

CATALOG NUMBER: VST-F06-LED-E-U-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	792.7	788.2	770.3	752.4	736.0	718.1	701.8	685.4	667.5	654.1	637.7
5°	926.8	893.9	856.7	821.0	785.2	748.0	709.3	675.0	639.2	606.4	575.1
7.5°	1062.3	998.3	947.6	883.5	825.4	767.4	713.7	658.6	607.9	560.2	515.6
10°	1177.0	1099.6	1020.6	938.7	855.2	777.8	703.3	637.7	570.7	512.6	457.5
12.5°	1271.0	1172.6	1075.8	972.9	879.1	780.7	688.4	609.4	530.4	464.9	408.2
15°	1355.8	1242.6	1126.4	1007.2	888.1	776.3	673.4	575.1	494.6	420.2	356.1
17.5°	1424.4	1294.8	1163.7	1029.6	901.4	770.3	654.1	551.3	457.5	379.9	317.4
20°	1484.0	1348.4	1206.9	1056.3	910.4	768.8	637.7	521.5	424.6	342.7	281.6
22.5°	1539.1	1403.5	1251.6	1090.6	923.8	767.4	622.8	499.2	396.3	314.4	253.3
25°	1601.8	1458.7	1299.3	1126.4	947.6	773.3	613.9	481.3	371.0	287.5	230.9
27.5°	1671.8	1521.2	1355.8	1171.1	978.9	785.2	610.9	461.9	348.6	262.2	213.1
30°	1770.0	1595.8	1412.5	1215.8	1007.2	798.7	607.9	450.0	326.3	242.8	195.2
32.5°	1856.5	1668.8	1475.1	1262.0	1038.5	812.1	606.4	433.6	305.5	223.5	181.8
35°	1947.4	1735.8	1528.7	1306.7	1065.3	826.9	604.9	421.6	286.1	204.1	168.4
37.5°	2026.4	1792.4	1570.4	1345.4	1095.2	840.4	606.4	411.2	268.2	187.7	156.4
40°	2093.4	1850.6	1616.6	1381.2	1126.4	861.2	607.9	400.8	250.4	172.8	146.0
42.5°	2153.0	1905.7	1665.8	1421.4	1162.2	885.1	616.9	391.9	235.4	159.4	135.6
45°	2199.2	1956.3	1719.4	1478.1	1220.3	923.8	633.3	385.9	220.5	147.5	126.7
47.5°	2246.9	2030.8	1810.3	1567.5	1305.3	984.9	661.6	384.4	208.6	138.5	119.2
50°	2312.5	2105.4	1890.7	1658.3	1382.7	1047.5	695.8	385.9	193.7	129.7	111.7
52.5°	2360.2	2181.3	1995.1	1816.3	1567.5	1238.1	828.4	412.7	186.2	122.1	102.8
55°	2641.7	2610.4	2614.8	2644.7	2452.5	2106.8	1385.7	596.0	219.1	138.5	101.3
57.5°	3724.9	3835.1	3899.2	3897.8	3580.4	2969.5	1861.0	765.8	244.4	160.9	120.7
60°	5149.4	5065.9	4948.2	4657.6	4236.0	3389.7	2081.5	824.0	211.5	128.1	110.3
62.5°	6408.4	5919.6	5486.0	5015.3	4462.4	3535.7	2126.2	819.5	184.8	96.8	77.5
65°	7193.6	6314.5	5614.2	5024.1	4373.0	3413.5	2011.4	752.4	156.4	79.0	64.1
67.5°	7381.3	6101.4	5110.6	4358.1	3653.4	2656.7	1476.5	566.2	122.1	65.6	56.6
69°	6971.5	5423.5	4234.5	3380.8	2658.1	1762.6	913.4	357.6	93.8	59.6	52.1
70°	6412.8	4717.2	3449.2	2713.2	1968.3	1238.1	639.2	251.8	76.0	55.1	47.7
72.5°	4125.8	2477.8	1695.6	1180.0	812.1	493.2	250.4	113.3	58.1	46.1	38.7
75°	1600.2	916.4	664.6	505.1	394.9	274.2	152.0	73.0	49.1	38.7	29.8
77.5°	788.2	603.4	493.2	338.2	196.7	122.1	82.0	56.6	40.3	28.3	19.4
80°	622.8	414.2	247.4	153.5	116.2	87.9	62.6	46.1	29.8	17.9	13.4
82.5°	318.8	174.4	128.1	104.3	86.4	68.6	50.7	32.8	19.4	11.9	10.4
85°	99.8	73.0	65.6	64.1	59.6	49.1	35.7	20.9	11.9	7.4	7.4
87.5°	7.4	10.4	13.4	10.4	11.9	10.4	13.4	9.0	6.0	6.0	4.4
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: P165501

CATALOG NUMBER: VST-F06-LED-E-U-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	625.8	607.9	591.6	581.1	561.7	554.3	546.9	543.9	530.4	533.4	521.5
5°	546.9	515.6	491.7	467.9	445.5	429.1	415.7	399.3	385.9	379.9	368.0
7.5°	475.3	435.1	403.8	378.5	351.6	330.8	312.9	300.9	289.1	277.1	271.2
10°	412.7	369.5	333.8	308.4	283.1	265.2	251.8	242.8	235.4	230.9	229.5
12.5°	354.6	312.9	280.1	257.8	238.4	229.5	223.5	219.1	217.5	216.1	216.1
15°	309.9	268.2	242.8	226.5	217.5	213.1	211.5	208.6	205.7	204.1	204.1
17.5°	268.2	236.9	219.1	210.1	205.7	202.7	199.7	196.7	193.7	192.2	192.2
20°	239.9	214.5	205.7	199.7	195.2	192.2	187.7	184.8	183.3	181.8	180.3
22.5°	217.5	201.1	195.2	190.7	184.8	180.3	177.3	174.4	171.4	169.8	168.4
25°	201.1	190.7	186.2	180.3	174.4	169.8	165.4	160.9	158.0	156.4	153.5
27.5°	189.2	181.8	175.8	168.4	162.4	158.0	153.5	149.0	146.0	143.0	141.5
30°	178.8	171.4	163.9	158.0	150.5	146.0	140.1	135.6	134.1	131.1	128.1
32.5°	168.4	160.9	153.5	146.0	138.5	132.6	129.7	123.7	120.7	119.2	116.2
35°	156.4	149.0	140.1	134.1	126.7	120.7	116.2	111.7	108.8	105.8	104.3
37.5°	146.0	137.1	128.1	120.7	114.7	108.8	104.3	99.8	96.8	93.8	92.4
40°	134.1	125.1	116.2	108.8	102.8	98.4	93.8	89.4	86.4	85.0	85.0
42.5°	123.7	113.3	104.3	98.4	93.8	87.9	83.4	79.0	77.5	76.0	77.5
45°	113.3	102.8	95.4	89.4	85.0	79.0	74.5	71.5	70.0	71.5	73.0
47.5°	104.3	93.8	86.4	82.0	77.5	73.0	68.6	65.6	65.6	68.6	71.5
50°	95.4	85.0	79.0	76.0	71.5	67.0	61.1	59.6	61.1	64.1	67.0
52.5°	86.4	74.5	70.0	68.6	64.1	59.6	55.1	53.7	55.1	58.1	56.6
55°	77.5	65.6	64.1	62.6	58.1	52.1	47.7	47.7	47.7	46.1	43.2
57.5°	74.5	58.1	56.6	55.1	50.7	44.7	41.7	38.7	37.3	32.8	31.3
60°	77.5	52.1	52.1	49.1	44.7	38.7	34.3	29.8	26.8	23.8	23.8
62.5°	62.6	47.7	46.1	43.2	37.3	31.3	26.8	22.3	20.9	19.4	19.4
65°	50.7	43.2	40.3	35.7	31.3	25.3	20.9	17.9	16.4	16.4	17.9
67.5°	46.1	38.7	34.3	29.8	25.3	19.4	16.4	14.9	14.9	16.4	16.4
69°	43.2	35.7	31.3	26.8	22.3	17.9	14.9	14.9	14.9	14.9	16.4
70°	40.3	34.3	29.8	25.3	19.4	14.9	13.4	13.4	14.9	14.9	16.4
72.5°	31.3	26.8	25.3	20.9	14.9	13.4	11.9	13.4	13.4	14.9	14.9
75°	23.8	19.4	19.4	16.4	11.9	10.4	10.4	11.9	11.9	13.4	13.4
77.5°	16.4	13.4	13.4	11.9	10.4	9.0	9.0	10.4	11.9	11.9	13.4
80°	11.9	10.4	9.0	10.4	9.0	7.4	9.0	10.4	10.4	11.9	11.9
82.5°	9.0	9.0	9.0	9.0	7.4	7.4	9.0	9.0	10.4	11.9	11.9
85°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.0	9.0	10.4	10.4
87.5°	4.4	4.4	4.4	6.0	6.0	7.4	7.4	7.4	7.4	9.0	9.0
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: P165501

CATALOG NUMBER: VST-F06-LED-E-U-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	686.9	686.9	686.9	686.9
2.5°	518.5	517.0	511.0	512.6
5°	363.5	354.6	360.6	359.1
7.5°	266.7	265.2	263.7	266.7
10°	228.0	228.0	226.5	228.0
12.5°	214.5	214.5	214.5	214.5
15°	204.1	204.1	202.7	202.7
17.5°	192.2	192.2	192.2	190.7
20°	180.3	178.8	178.8	178.8
22.5°	166.8	165.4	165.4	165.4
25°	153.5	152.0	152.0	152.0
27.5°	140.1	138.5	137.1	137.1
30°	126.7	125.1	123.7	123.7
32.5°	113.3	111.7	110.3	110.3
35°	101.3	101.3	99.8	98.4
37.5°	90.9	90.9	90.9	90.9
40°	83.4	85.0	85.0	85.0
42.5°	79.0	80.4	82.0	83.4
45°	76.0	79.0	80.4	80.4
47.5°	74.5	76.0	77.5	77.5
50°	68.6	67.0	67.0	67.0
52.5°	55.1	52.1	50.7	49.1
55°	40.3	38.7	35.7	35.7
57.5°	28.3	28.3	26.8	26.8
60°	22.3	22.3	20.9	22.3
62.5°	19.4	19.4	19.4	19.4
65°	17.9	17.9	17.9	17.9
67.5°	17.9	17.9	17.9	17.9
69°	16.4	16.4	16.4	16.4
70°	16.4	16.4	16.4	16.4
72.5°	14.9	14.9	14.9	14.9
75°	13.4	14.9	14.9	14.9
77.5°	13.4	13.4	13.4	13.4
80°	11.9	11.9	13.4	13.4
82.5°	11.9	11.9	11.9	11.9
85°	10.4	10.4	11.9	11.9
87.5°	9.0	9.0	10.4	10.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)