

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: P165106

Luminaire Tested: **VST-E11-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165106
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: VST-E11-LED-E-U-SL2-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (231) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18201.5 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 269.7
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

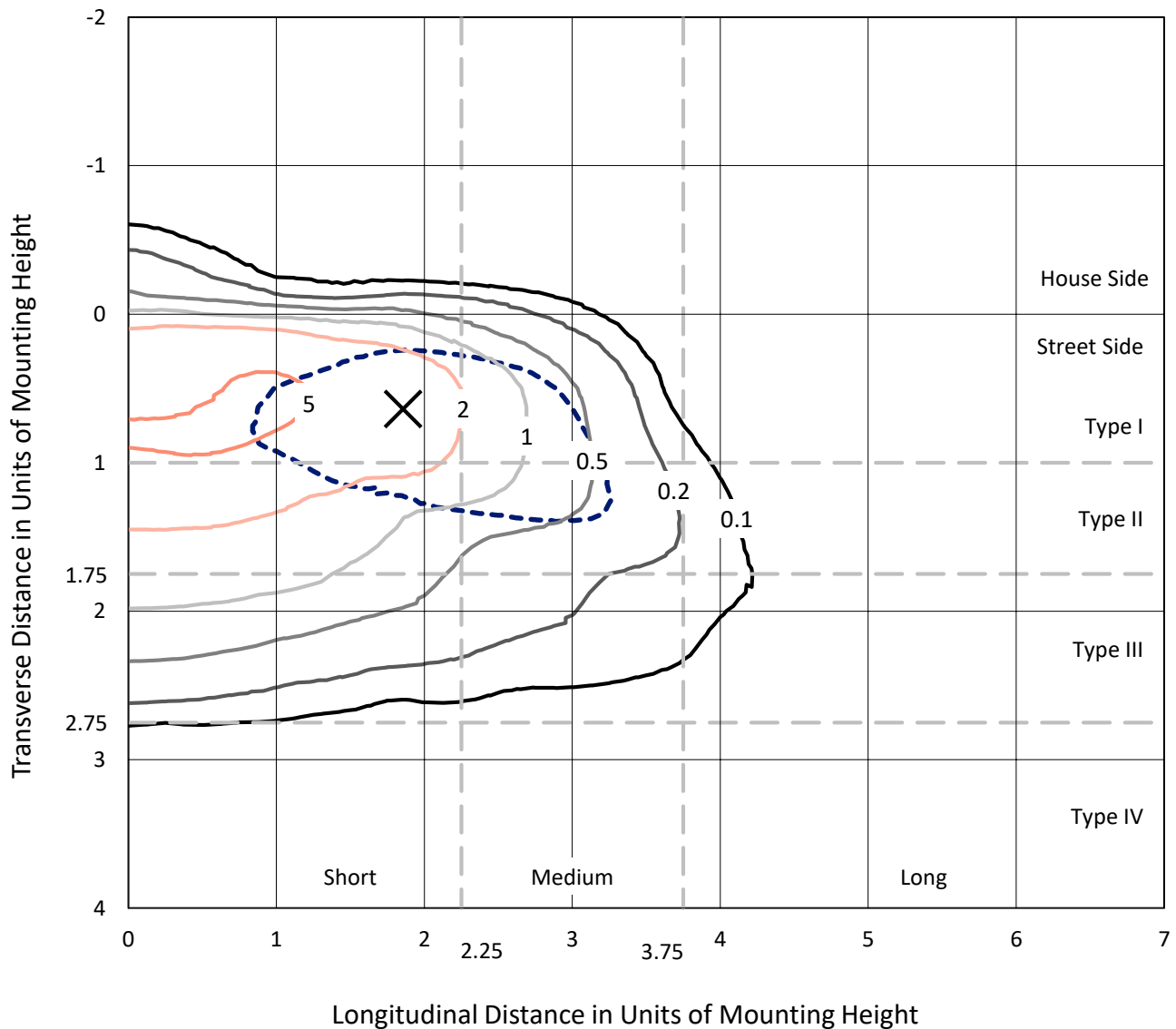


REPORT NUMBER: P165106

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

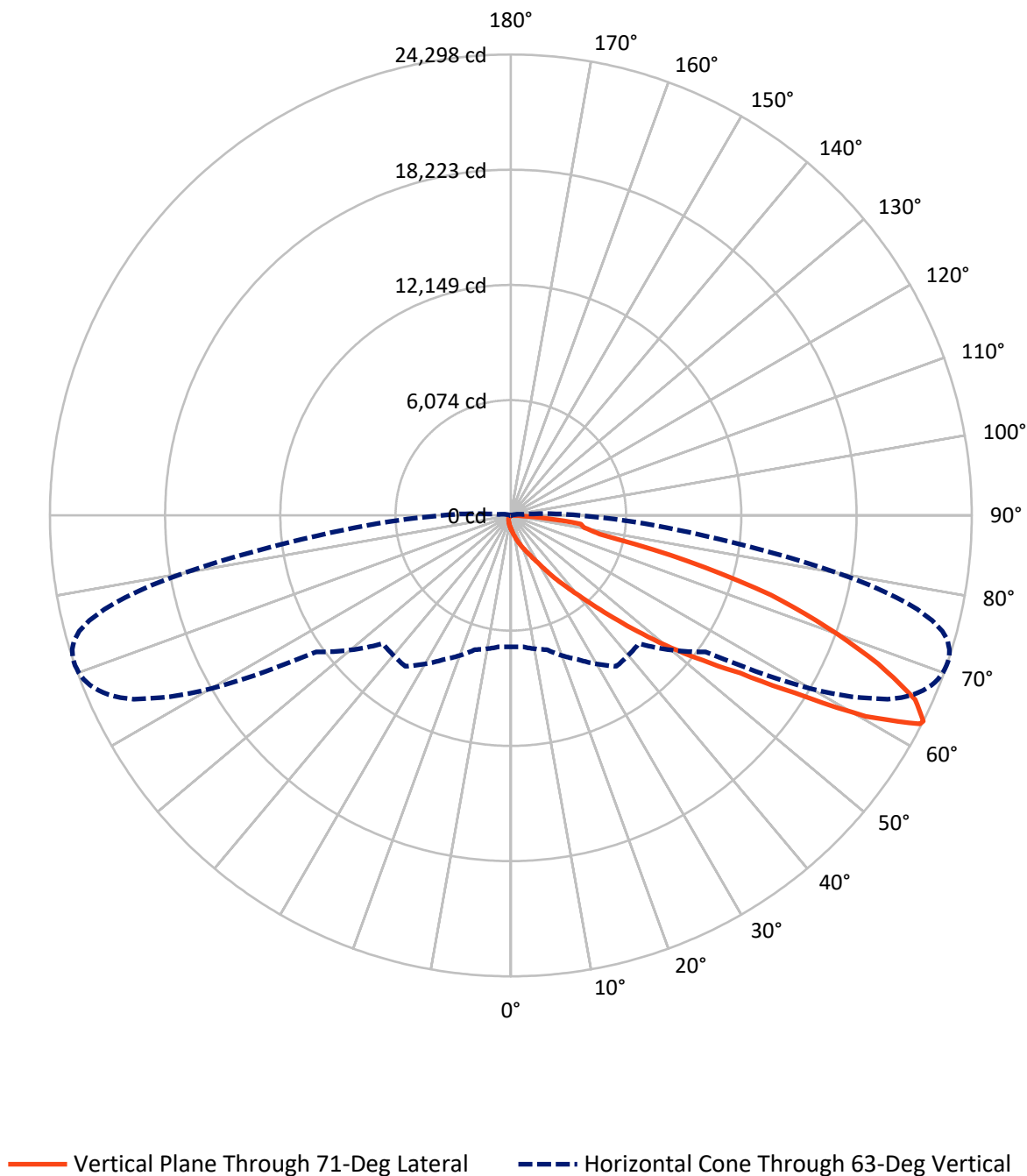


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - Non-Cutoff

REPORT NUMBER: P165106

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P165106

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

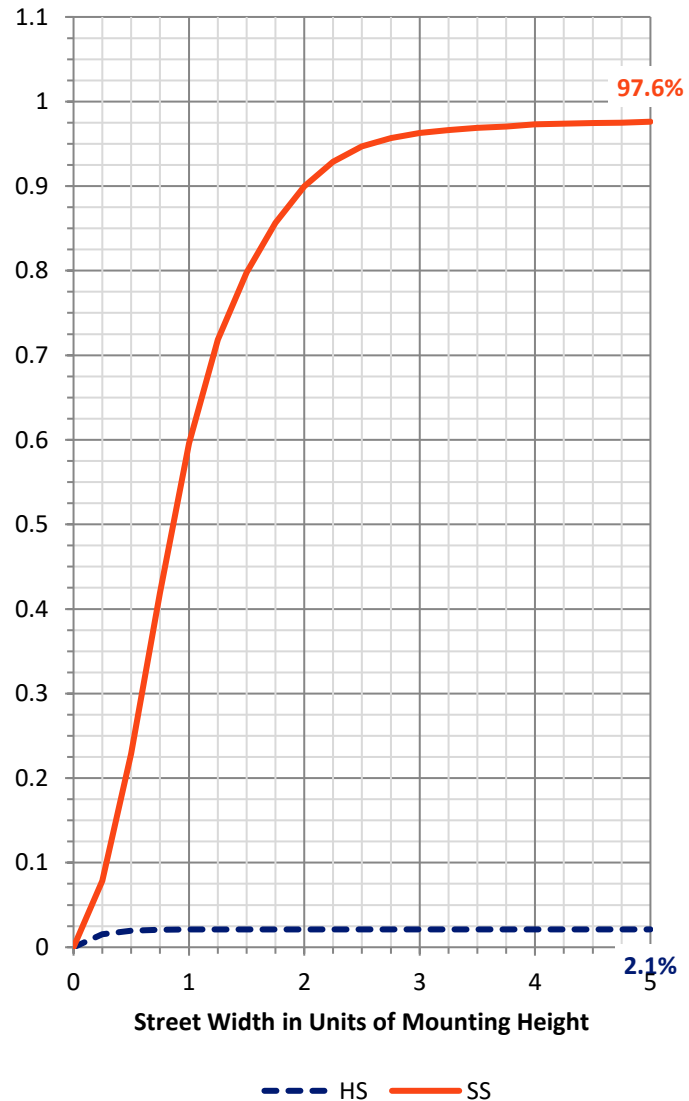
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.4	0.0	386.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	17815.1	0.0	17815.1
	% Fixture	97.9	0.0	97.9
Total	Lumens	18201.5	0.0	18201.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	0.4
10°-20°	299.3	1.6
20°-30°	607.9	3.3
30°-40°	1485.2	8.2
40°-50°	3321.4	18.2
50°-60°	4670.3	25.7
60°-70°	5491.9	30.2
70°-80°	1983.1	10.9
80°-90°	265.2	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°	18201.5	100.0
0°-180°	18201.5	100.0

Coefficient of Utilization



REPORT NUMBER: P165106

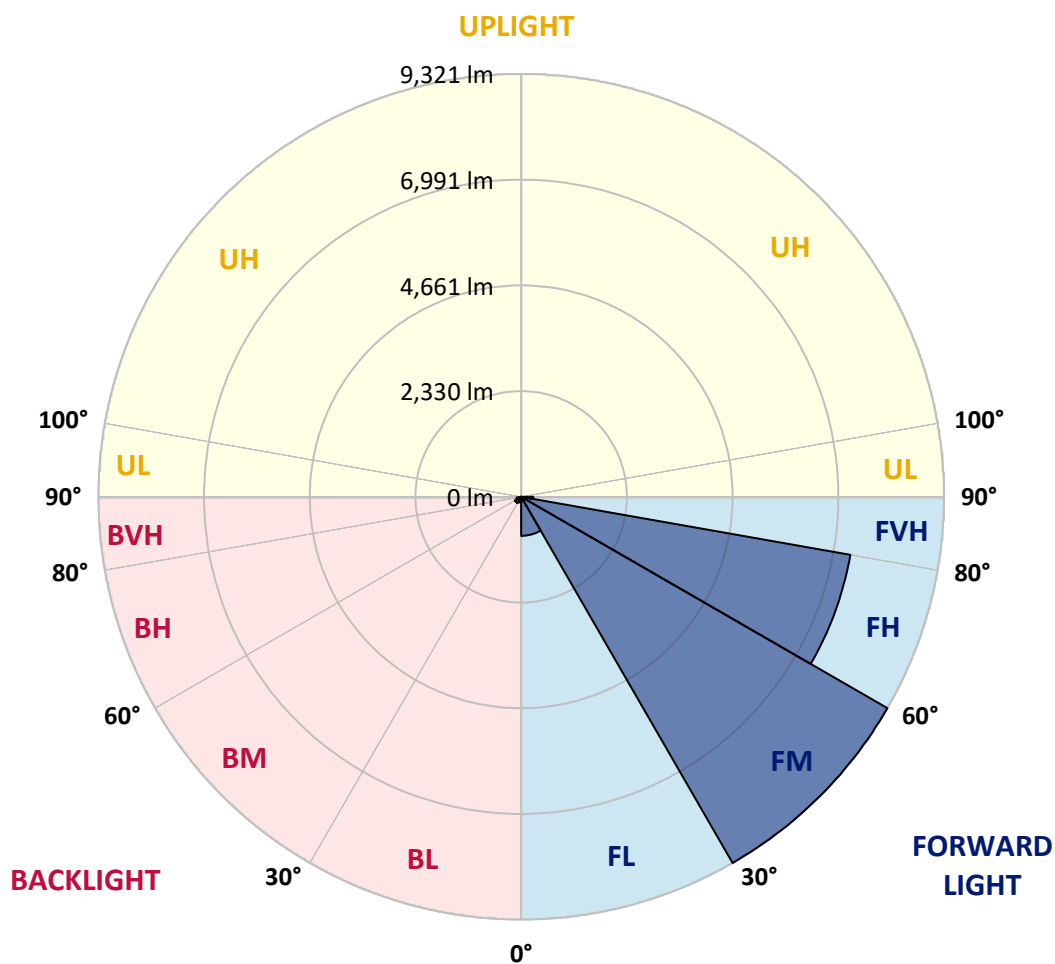
CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	860.1	4.7			
FM	(30°-60°)	9321.3	51.2			
FH	(60°-80°)	7369.1	40.5			G3/7500
FVH	(80°-90°)	264.6	1.5			G3/500
BL	(0°-30°)	124.2	0.7	B1/500		
BM	(30°-60°)	155.7	0.9	B0/220		
BH	(60°-80°)	105.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





REPORT NUMBER: P165106

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3
2.5°	913.3	923.1	916.5	900.0	880.1	853.8	830.5	830.5	827.3	817.2	820.6
5°	1197.8	1201.2	1187.9	1148.2	1111.8	1055.5	992.6	986.0	979.4	969.5	966.3
7.5°	1475.9	1488.9	1475.9	1432.7	1359.9	1273.9	1174.7	1164.8	1144.9	1144.9	1131.7
10°	1760.4	1760.4	1747.1	1697.5	1631.2	1508.8	1383.0	1366.6	1343.5	1336.8	1316.9
12.5°	1962.2	1962.2	1955.5	1929.2	1876.1	1767.0	1614.7	1598.3	1568.5	1558.5	1535.4
15°	2041.5	2041.5	2044.9	2068.0	2071.5	2021.8	1862.9	1849.6	1819.9	1793.4	1783.5
17.5°	2091.2	2087.9	2087.9	2121.1	2180.6	2213.7	2111.0	2097.8	2064.8	2051.6	2018.4
20°	2200.5	2193.8	2173.9	2173.9	2230.2	2345.9	2345.9	2342.7	2306.4	2296.3	2279.8
22.5°	2362.6	2356.0	2296.3	2246.7	2273.2	2418.9	2554.5	2547.9	2534.6	2521.4	2511.5
25°	2627.3	2604.1	2501.5	2356.0	2332.9	2488.4	2713.3	2729.9	2739.8	2739.8	2746.4
27.5°	3027.7	2998.0	2815.9	2544.7	2442.0	2600.7	2888.7	2921.8	2951.6	2958.2	2987.9
30°	3583.5	3530.7	3269.2	2872.2	2637.3	2766.3	3146.9	3183.2	3226.2	3239.5	3285.7
32.5°	4496.8	4467.0	4215.7	3619.9	3116.9	3090.6	3507.6	3553.8	3610.0	3633.1	3689.4
35°	5886.7	5893.3	5688.1	5152.0	4457.2	4093.1	4152.8	4192.4	4212.2	4281.8	4311.5
37.5°	6829.7	6846.1	6892.5	6680.8	6184.4	5813.7	5347.1	5390.3	5287.7	5297.5	5300.9
40°	7345.9	7398.7	7670.2	7875.3	7835.5	7620.5	7246.6	7269.7	7077.8	7034.8	6826.2
42.5°	7689.9	7759.4	8193.0	8828.2	9152.5	9347.8	9261.8	9251.7	9102.9	9046.6	8871.2
45°	7905.1	7968.0	8513.9	9450.3	10198.2	10767.2	11002.1	11028.6	10902.8	10846.6	10701.1
47.5°	7895.0	7968.0	8553.5	9682.0	10783.9	11693.7	12355.6	12388.6	12464.7	12415.1	12424.9
50°	7458.4	7527.9	8116.9	9288.1	10611.7	12117.3	13328.4	13434.3	13556.6	13639.4	13679.2
52.5°	6928.9	6978.5	7501.4	8613.2	9877.1	11941.9	13904.0	14086.1	14268.1	14423.7	14532.8
55°	6733.6	6789.9	7200.2	8123.5	9288.1	11207.3	14172.1	14440.1	14698.3	14953.1	15161.5
57.5°	6836.3	6889.1	7183.7	7891.8	8937.5	10433.1	14248.2	14665.2	15088.8	15502.3	15912.6
60°	7213.4	7269.7	7521.3	8106.8	8844.8	9986.4	13950.5	14642.1	15346.8	16068.1	16746.5
62.5°	7064.5	7087.7	7458.4	8484.2	9506.5	9605.8	12868.4	13834.7	14910.1	16021.9	17117.0
63°	6922.3	6948.8	7326.0	8381.5	9708.5	9549.5	12534.3	13553.4	14688.3	15886.1	17077.4
65°	6277.1	6280.3	6568.2	7402.1	9483.4	9648.8	11045.3	12018.0	13321.7	14757.8	16263.4
67.5°	4685.5	4662.3	4940.2	5575.6	7445.1	9652.2	9480.0	10026.2	10932.8	12206.7	13556.6
70°	1661.1	1624.8	2074.7	2954.8	4639.0	7895.0	8146.6	8183.0	8434.5	9122.7	9969.9
72.5°	539.3	549.4	661.7	1082.0	2137.6	5314.2	7375.6	7263.1	7197.0	7193.5	7306.1
75°	215.0	218.4	264.6	479.8	959.7	2561.1	6459.1	6521.8	6545.1	6578.1	6614.6
77.5°	102.5	112.5	148.9	268.1	476.4	1267.3	4622.6	5155.2	5459.7	5694.8	5837.0
80°	36.4	43.0	82.8	165.4	221.6	582.3	2435.4	2938.3	3385.0	3960.9	4457.2
82.5°	0.0	0.0	16.5	115.7	122.4	234.9	999.3	1171.3	1340.0	1737.1	2230.2
85°	0.0	0.0	0.0	33.2	36.4	39.8	337.6	407.1	456.7	532.7	615.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.8	19.9	49.6	76.2
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: P165106

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3
2.5°	814.0	810.8	810.8	804.2	800.7	794.1	790.9	780.8	777.6	777.6	777.6
5°	962.9	949.6	943.0	926.5	916.5	913.3	896.8	890.2	880.1	883.5	866.8
7.5°	1128.3	1105.2	1095.3	1072.0	1065.6	1042.3	1035.6	1019.2	1009.3	989.4	982.8
10°	1310.3	1280.6	1264.1	1227.5	1217.7	1201.2	1181.3	1161.4	1144.9	1125.0	1115.2
12.5°	1518.9	1492.4	1479.1	1429.5	1406.4	1383.0	1356.7	1330.2	1303.7	1287.2	1264.1
15°	1763.6	1720.6	1707.4	1661.1	1621.4	1591.6	1555.3	1522.1	1502.2	1469.3	1445.9
17.5°	2005.2	1962.2	1952.3	1882.8	1839.8	1819.9	1780.3	1737.1	1700.7	1667.8	1631.2
20°	2246.7	2216.9	2190.4	2124.3	2078.1	2044.9	1991.9	1948.9	1919.2	1872.9	1826.5
22.5°	2488.4	2458.5	2438.8	2369.2	2326.2	2279.8	2233.6	2187.2	2144.2	2087.9	2035.1
25°	2736.6	2716.7	2706.6	2643.9	2604.1	2561.1	2514.7	2461.9	2408.8	2345.9	2289.9
27.5°	2994.6	3001.2	2981.3	2968.0	2925.0	2895.3	2822.6	2786.2	2746.4	2670.3	2600.7
30°	3322.1	3342.0	3335.4	3345.4	3318.9	3299.0	3242.7	3196.5	3150.1	3077.4	2998.0
32.5°	3735.8	3762.3	3775.4	3812.0	3798.7	3792.1	3775.4	3709.3	3676.1	3550.6	3517.4
35°	4374.4	4361.1	4417.4	4447.1	4433.9	4427.4	4407.6	4371.2	4331.4	4242.0	4159.4
37.5°	5204.9	5218.1	5238.0	5178.6	5138.8	5135.5	5075.9	5039.5	4983.2	4884.0	4784.7
40°	6727.0	6644.4	6551.8	6300.2	6191.1	6128.2	5952.8	5903.1	5807.1	5671.4	5569.0
42.5°	8705.8	8623.0	8345.1	7925.0	7699.9	7388.9	7246.6	7071.2	6935.5	6713.9	6594.8
45°	10671.4	10433.1	10399.9	9910.2	9632.3	9222.0	8967.2	8672.6	8365.0	8073.9	7862.1
47.5°	12329.1	12276.0	12114.1	11816.1	11558.1	11213.9	10886.4	10433.1	10115.4	9701.8	9321.3
50°	13655.9	13652.7	13593.0	13421.0	13206.0	12928.1	12640.1	12256.4	11895.7	11389.3	10982.4
52.5°	14648.7	14701.6	14721.5	14668.4	14585.8	14340.9	14195.4	13874.3	13569.9	13139.7	12699.6
55°	15376.5	15571.8	15671.1	15783.6	15760.5	15674.5	15667.9	15459.3	15320.4	14979.5	14668.4
57.5°	16276.7	16597.6	16905.2	17451.4	17471.1	17663.2	17762.4	17861.7	17888.0	17752.4	17649.9
60°	17421.4	18076.7	18659.0	19800.7	20098.5	20568.3	20872.7	21203.7	21484.8	21508.1	21501.5
62.5°	18228.8	19238.1	20177.9	21872.0	22451.1	22993.8	23400.7	23721.8	23916.9	24115.5	24208.1
63°	18252.1	19357.3	20356.5	22103.7	22712.5	23228.7	23615.9	23913.7	24118.9	24237.8	24297.5
65°	17692.9	19033.0	20224.1	21964.6	22537.1	23056.7	23258.5	23453.8	23553.0	23599.3	23423.8
67.5°	14996.1	16306.4	17696.1	19641.8	20131.5	20753.6	20919.2	21018.4	21064.6	21054.8	20905.9
70°	11213.9	12312.6	13857.8	16081.4	16730.0	17338.9	17716.0	17878.2	17931.0	17914.5	17692.9
72.5°	7828.9	8474.1	9748.1	12223.2	13106.7	13887.6	14354.1	14595.7	14645.3	14546.0	14340.9
75°	6574.9	6608.0	6895.8	8249.1	9076.3	9910.2	10436.3	10588.6	10489.3	10188.1	9665.5
77.5°	5870.0	5942.9	5942.9	6144.7	6306.8	6538.5	6588.1	6217.4	5787.4	5231.4	4781.5
80°	4923.8	5178.6	5357.2	5506.1	5522.6	5476.3	5353.8	5145.4	4814.5	4390.9	3921.1
82.5°	2991.4	3494.3	3699.5	4467.0	4844.2	5099.0	5079.3	4801.2	4549.8	4109.8	3709.3
85°	754.5	814.0	883.5	1148.2	1287.2	1571.7	1750.4	1833.1	1862.9	1710.8	1548.6
87.5°	72.7	49.6	82.8	62.9	89.4	66.1	89.4	82.8	102.5	109.1	119.2
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: P165106

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3
2.5°	771.0	767.6	764.4	761.1	757.7	754.5	747.9	747.9	741.3	737.8	734.6
5°	857.0	850.4	847.2	840.5	830.5	823.8	814.0	800.7	790.9	787.5	780.8
7.5°	966.3	949.6	943.0	933.2	919.9	900.0	886.7	876.9	860.4	850.4	830.5
10°	1088.7	1072.0	1052.3	1032.4	1012.5	989.4	972.7	959.7	933.2	919.9	896.8
12.5°	1244.2	1214.5	1191.2	1164.8	1138.3	1111.8	1091.9	1052.3	1029.0	999.3	979.4
15°	1402.9	1376.4	1350.1	1316.9	1277.2	1234.2	1214.5	1177.9	1148.2	1101.9	1075.4
17.5°	1594.8	1545.2	1505.6	1465.8	1429.5	1389.7	1350.1	1293.8	1250.8	1211.0	1158.2
20°	1783.5	1724.0	1680.8	1628.0	1575.1	1512.3	1465.8	1426.1	1366.6	1313.7	1257.5
22.5°	1985.3	1925.8	1856.3	1803.4	1730.7	1680.8	1618.1	1551.8	1492.4	1422.8	1353.3
25°	2230.2	2167.3	2087.9	2018.4	1935.6	1866.3	1790.1	1714.0	1641.3	1561.9	1472.5
27.5°	2531.4	2465.1	2379.1	2296.3	2187.2	2101.2	2028.5	1925.8	1833.1	1733.9	1631.2
30°	2911.8	2839.0	2733.1	2614.0	2504.9	2408.8	2306.4	2170.7	2068.0	1948.9	1816.7
32.5°	3408.3	3322.1	3179.8	3067.3	2931.7	2805.9	2663.6	2528.0	2382.5	2227.0	2074.7
35°	4033.6	3954.2	3788.7	3623.3	3474.4	3325.5	3146.9	2991.4	2786.2	2597.5	2402.2
37.5°	4682.2	4539.8	4387.7	4209.0	4023.6	3844.9	3626.5	3411.5	3176.6	2971.5	2726.5
40°	5423.3	5251.3	5125.5	4933.6	4672.2	4417.4	4215.7	3947.6	3653.0	3378.4	3090.6
42.5°	6439.2	6247.3	6022.3	5731.1	5542.4	5244.7	4983.2	4665.6	4278.4	3970.7	3623.3
45°	7613.9	7352.5	7134.1	6852.8	6624.5	6254.0	5949.5	5526.0	5138.8	4735.1	4311.5
47.5°	8954.0	8629.6	8312.0	8034.1	7670.2	7306.1	6919.1	6469.0	5972.7	5529.2	5026.2
50°	10492.5	10032.6	9592.5	9235.3	8735.5	8315.4	7895.0	7388.9	6839.5	6329.9	5757.5
52.5°	12203.3	11670.6	11088.3	10538.9	9959.8	9420.5	8914.2	8331.9	7719.8	7097.7	6459.1
55°	14268.1	13867.7	13182.9	12484.6	11710.2	10989.0	10337.0	9615.8	8871.2	8054.0	7382.2
57.5°	17501.0	17305.7	16733.2	16035.2	15025.9	14149.0	13043.8	12160.3	11081.7	9956.6	9089.6
60°	21882.0	21640.3	21319.4	20753.6	19952.9	18761.7	17544.0	16170.8	14529.6	12971.1	11492.0
62.5°	24218.1	24131.9	23870.7	23480.1	22732.4	21792.6	20565.1	19056.1	17203.2	15310.4	13424.4
63°	24287.5	24178.4	23953.3	23556.3	22897.8	21987.9	20783.3	19317.5	17504.2	15575.2	13649.3
65°	23347.9	23304.9	23076.4	22643.0	22193.1	21498.1	20565.1	19304.2	17782.1	15959.0	14043.1
67.5°	20707.4	20578.2	20227.5	20095.1	19780.8	19297.6	18586.3	17719.2	16630.8	15197.9	13543.4
70°	17514.1	17322.2	16882.1	16647.2	16263.4	15959.0	15525.6	14906.7	14235.0	13235.7	12001.6
72.5°	14129.1	13732.0	13328.4	12716.3	12180.2	11637.5	11157.6	10721.0	9983.0	9579.3	8642.9
75°	9175.6	8454.2	7762.8	6836.3	6002.4	5264.6	4546.4	4182.5	3424.8	3116.9	2676.9
77.5°	4354.5	3950.8	3408.3	2987.9	2451.8	2001.9	1634.6	1227.5	962.9	754.5	575.7
80°	3514.0	3173.2	2845.7	2465.1	2061.4	1644.5	1260.7	943.0	668.3	463.2	327.5
82.5°	3133.6	2762.9	2359.2	2097.8	1823.3	1492.4	1224.3	999.3	737.8	539.3	367.3
85°	1217.7	1025.8	790.9	645.2	502.9	413.5	373.9	258.0	201.9	158.7	122.4
87.5°	105.9	86.0	69.5	46.4	49.6	26.5	29.7	19.9	16.5	16.5	13.3
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: P165106

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3
2.5°	731.2	728.0	724.6	717.9	717.9	711.5	708.1	704.9	688.2	651.8	622.1
5°	767.6	761.1	754.5	744.5	737.8	728.0	721.4	711.5	674.9	605.6	545.9
7.5°	820.6	807.4	797.5	777.6	767.6	754.5	744.5	728.0	668.3	562.4	479.8
10°	883.5	860.4	843.7	820.6	800.7	784.3	767.6	744.5	661.7	516.2	420.2
12.5°	959.7	933.2	900.0	873.5	847.2	823.8	800.7	771.0	651.8	476.4	373.9
15°	1035.6	996.0	972.7	936.4	900.0	866.8	833.9	807.4	655.3	433.4	334.2
17.5°	1121.6	1082.0	1032.4	992.6	953.0	910.0	870.3	817.2	638.6	400.5	304.4
20°	1204.4	1148.2	1101.9	1052.3	996.0	943.0	893.4	847.2	625.3	367.3	277.9
22.5°	1293.8	1227.5	1168.0	1105.2	1035.6	976.2	916.5	857.0	602.2	337.6	254.8
25°	1402.9	1326.8	1240.8	1164.8	1091.9	1019.2	943.0	870.3	579.1	311.1	238.3
27.5°	1535.4	1436.1	1350.1	1254.0	1151.6	1058.9	976.2	896.8	556.0	291.2	221.6
30°	1704.1	1588.2	1465.8	1343.5	1234.2	1128.3	1012.5	913.3	532.7	271.3	205.2
32.5°	1929.2	1783.5	1634.6	1492.4	1346.7	1211.0	1088.7	959.7	519.4	254.8	188.7
35°	2227.0	2038.3	1856.3	1677.6	1502.2	1336.8	1177.9	1032.4	519.4	234.9	168.8
37.5°	2508.1	2289.9	2058.2	1836.4	1628.0	1436.1	1247.4	1072.0	493.1	218.4	152.3
40°	2812.5	2551.1	2279.8	2018.4	1767.0	1528.7	1313.7	1111.8	469.8	198.5	135.6
42.5°	3279.1	2948.3	2594.3	2289.9	1988.7	1694.1	1426.1	1187.9	440.1	178.6	119.2
45°	3891.3	3471.0	3054.2	2683.5	2299.7	1939.0	1621.4	1326.8	433.4	162.2	102.5
47.5°	4546.4	4050.1	3560.4	3087.2	2637.3	2216.9	1836.4	1482.3	433.4	145.7	89.4
50°	5198.2	4576.3	4053.5	3504.1	2998.0	2501.5	2048.2	1644.5	436.8	132.4	72.7
52.5°	5787.4	5122.3	4536.6	3901.2	3342.0	2766.3	2273.2	1803.4	430.2	115.7	59.5
55°	6604.6	5823.8	5145.4	4443.9	3788.7	3140.2	2581.0	2041.5	433.4	102.5	49.6
57.5°	8110.2	7193.5	6376.3	5456.4	4701.9	3864.8	3186.5	2531.4	473.2	86.0	36.4
60°	10270.9	9079.7	7931.6	6809.8	5850.3	4854.2	3973.9	3203.1	556.0	69.5	26.5
62.5°	11723.5	10165.0	8795.2	7557.6	6442.4	5400.2	4440.5	3563.6	612.1	56.3	16.5
63°	11872.4	10261.1	8884.4	7607.3	6469.0	5426.7	4460.4	3590.1	615.5	52.8	16.5
65°	12153.7	10426.4	8934.1	7617.1	6442.4	5390.3	4447.1	3586.9	622.1	43.0	13.3
67.5°	11832.8	10171.6	8646.3	7332.6	6210.8	5175.1	4281.8	3454.5	618.7	29.7	9.8
70°	10581.9	9205.5	7865.3	6641.0	5621.8	4685.5	3898.0	3150.1	569.1	19.9	6.6
72.5°	7769.4	6832.9	5794.0	4910.5	4235.4	3517.4	3001.2	2365.8	440.1	13.3	3.2
75°	2302.9	2097.8	1763.6	1555.3	1373.2	1134.9	1009.3	787.5	225.0	6.6	0.0
77.5°	459.9	416.9	373.9	340.8	320.9	274.7	261.4	215.0	92.6	3.2	0.0
80°	241.5	198.5	168.8	148.9	129.0	105.9	89.4	72.7	16.5	0.0	0.0
82.5°	231.7	155.5	112.5	92.6	79.4	62.9	49.6	36.4	9.8	0.0	0.0
85°	86.0	66.1	49.6	39.8	33.2	29.7	23.1	19.9	0.0	0.0	0.0
87.5°	13.3	9.8	9.8	6.6	6.6	3.2	3.2	3.2	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: P165106

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	698.3	698.3	698.3	698.3	698.3	698.3	698.3
2.5°	592.4	565.8	552.6	536.1	536.1	532.7	539.3
5°	493.1	456.7	430.2	410.3	413.5	403.7	407.1
7.5°	416.9	380.6	357.3	344.2	340.8	337.6	337.6
10°	360.7	327.5	307.6	297.8	294.6	294.6	294.6
12.5°	320.9	287.9	271.3	264.6	264.6	261.4	261.4
15°	287.9	261.4	244.9	238.3	238.3	234.9	238.3
17.5°	261.4	234.9	221.6	215.0	215.0	211.8	211.8
20°	238.3	215.0	201.9	191.9	191.9	188.7	191.9
22.5°	218.4	195.3	178.6	172.0	168.8	165.4	168.8
25°	198.5	175.4	158.7	148.9	145.7	145.7	142.3
27.5°	182.0	158.7	139.0	129.0	125.8	125.8	122.4
30°	165.4	139.0	119.2	109.1	105.9	105.9	105.9
32.5°	148.9	119.2	102.5	92.6	89.4	89.4	89.4
35°	132.4	102.5	86.0	76.2	72.7	72.7	72.7
37.5°	112.5	86.0	66.1	59.5	56.3	52.8	52.8
40°	96.0	66.1	49.6	43.0	36.4	36.4	36.4
42.5°	79.4	52.8	36.4	26.5	23.1	19.9	23.1
45°	66.1	39.8	23.1	13.3	9.8	9.8	9.8
47.5°	52.8	26.5	9.8	3.2	3.2	3.2	3.2
50°	39.8	16.5	3.2	0.0	0.0	3.2	3.2
52.5°	29.7	9.8	0.0	0.0	0.0	0.0	0.0
55°	16.5	3.2	0.0	0.0	0.0	0.0	0.0
57.5°	9.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	6.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
63°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	3.2	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)