

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: P165081

Luminaire Tested: **VST-F08-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165081
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-F08-LED-E-U-SL2-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10927.8 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 204.4
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



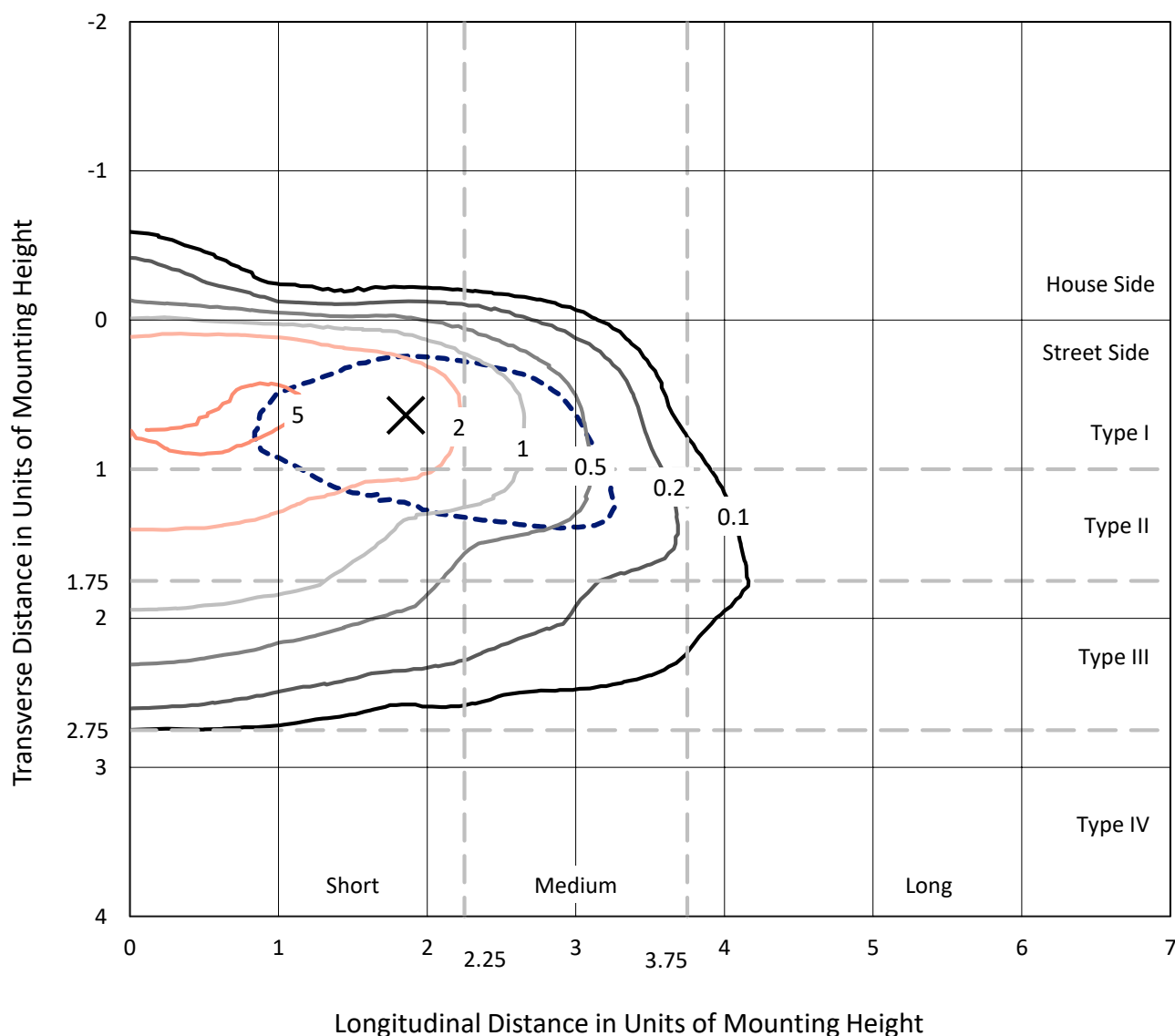
REPORT NUMBER: P165081

CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

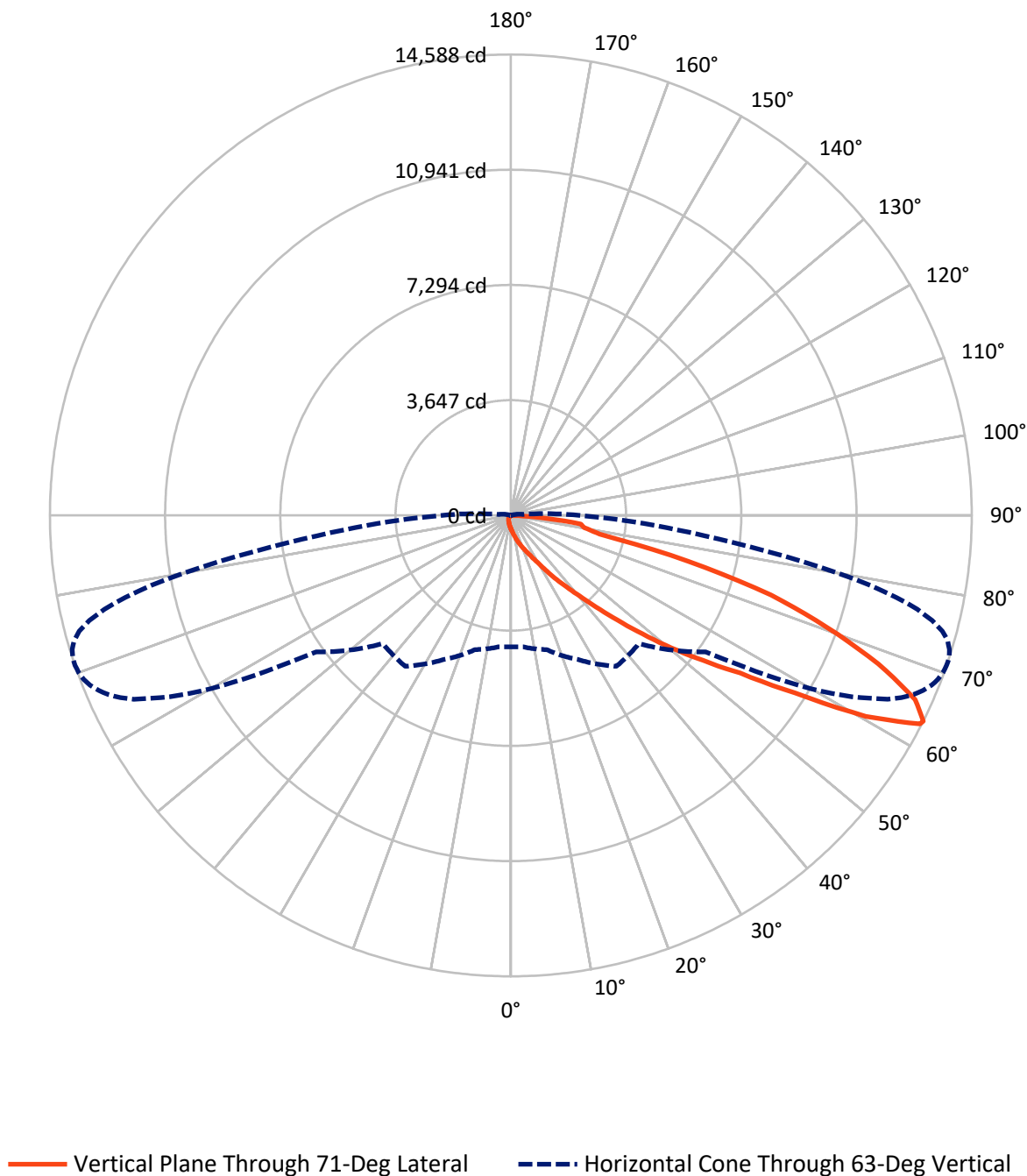


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
Type II - Short - Non-Cutoff

REPORT NUMBER: P165081

CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P165081

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	232.0	0.0	232.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	10695.8	0.0	10695.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	10927.8	0.0	10927.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	0.4
10°-20°	179.7	1.6
20°-30°	365.0	3.3
30°-40°	891.7	8.2
40°-50°	1994.1	18.2
50°-60°	2804.0	25.7
60°-70°	3297.3	30.2
70°-80°	1190.6	10.9
80°-90°	159.2	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°	10927.8	100.0
0°-180°	10927.8	100.0

Coefficient of Utilization



REPORT NUMBER: P165081

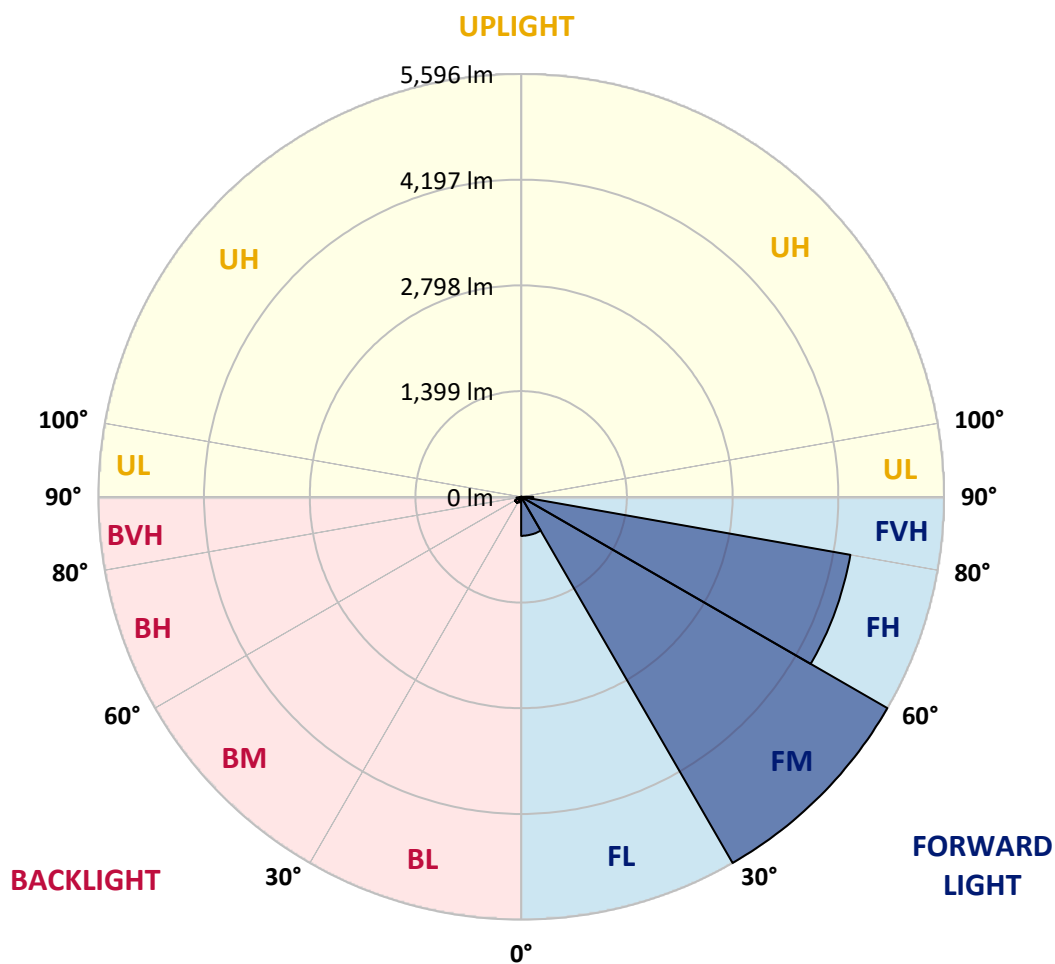
CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.4	4.7			
FM	(30°-60°)	5596.3	51.2			
FH	(60°-80°)	4424.3	40.5			G2/5000
FVH	(80°-90°)	158.9	1.5			G2/225
BL	(0°-30°)	74.6	0.7	B0/110		
BM	(30°-60°)	93.5	0.9	B0/220		
BH	(60°-80°)	63.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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





REPORT NUMBER: P165081

CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2
2.5°	548.3	554.2	550.2	540.3	528.4	512.6	498.6	498.6	496.7	490.6	492.7
5°	719.1	721.2	713.2	689.3	667.5	633.7	596.0	592.0	588.0	582.1	580.2
7.5°	886.1	893.9	886.1	860.2	816.5	764.9	705.3	699.3	687.4	687.4	679.4
10°	1056.9	1056.9	1049.0	1019.2	979.3	905.9	830.4	820.5	806.6	802.6	790.7
12.5°	1178.0	1178.0	1174.1	1158.3	1126.4	1060.9	969.5	959.6	941.7	935.7	921.8
15°	1225.7	1225.7	1227.7	1241.6	1243.7	1213.9	1118.4	1110.5	1092.6	1076.7	1070.8
17.5°	1255.5	1253.6	1253.6	1273.5	1309.2	1329.1	1267.4	1259.5	1239.7	1231.7	1211.8
20°	1321.1	1317.1	1305.2	1305.2	1339.0	1408.5	1408.5	1406.5	1384.7	1378.7	1368.8
22.5°	1418.5	1414.5	1378.7	1348.9	1364.8	1452.3	1533.7	1529.7	1521.7	1513.8	1507.9
25°	1577.4	1563.5	1501.8	1414.5	1400.6	1494.0	1629.0	1639.0	1644.9	1644.9	1648.9
27.5°	1817.8	1799.9	1690.6	1527.8	1466.1	1561.4	1734.3	1754.2	1772.1	1776.0	1793.9
30°	2151.5	2119.7	1962.8	1724.4	1583.4	1660.8	1889.3	1911.2	1937.0	1944.9	1972.7
32.5°	2699.8	2681.9	2531.0	2173.3	1871.4	1855.5	2105.9	2133.6	2167.4	2181.3	2215.1
35°	3534.2	3538.2	3415.0	3093.2	2676.0	2457.4	2493.2	2517.0	2529.0	2570.7	2588.6
37.5°	4100.4	4110.3	4138.2	4011.0	3713.0	3490.4	3210.3	3236.3	3174.6	3180.5	3182.6
40°	4410.3	4442.0	4605.0	4728.2	4704.3	4575.2	4350.7	4364.6	4249.4	4223.6	4098.3
42.5°	4616.9	4658.6	4918.9	5300.3	5495.0	5612.2	5560.6	5554.6	5465.2	5431.4	5326.1
45°	4746.1	4783.8	5111.6	5673.8	6122.8	6464.4	6605.5	6621.4	6545.9	6512.1	6424.7
47.5°	4740.0	4783.8	5135.4	5812.9	6474.5	7020.7	7418.1	7437.9	7483.6	7453.8	7459.7
50°	4477.9	4519.6	4873.2	5576.4	6371.1	7275.0	8002.1	8065.7	8139.1	8188.9	8212.7
52.5°	4160.0	4189.8	4503.7	5171.2	5930.0	7169.7	8347.7	8457.0	8566.3	8659.7	8725.2
55°	4042.7	4076.5	4322.9	4877.2	5576.4	6728.6	8508.7	8669.6	8824.6	8977.6	9102.7
57.5°	4104.4	4136.1	4313.0	4738.1	5365.9	6263.8	8554.4	8804.7	9059.0	9307.3	9553.6
60°	4330.8	4364.6	4515.6	4867.2	5310.3	5995.6	8375.6	8790.8	9213.9	9647.0	10054.3
62.5°	4241.4	4255.3	4477.9	5093.7	5707.5	5767.1	7726.0	8306.1	8951.8	9619.3	10276.8
63°	4156.0	4171.9	4398.4	5032.1	5828.8	5733.4	7525.3	8137.2	8818.6	9537.7	10253.0
65°	3768.6	3770.6	3943.4	4444.1	5693.7	5793.0	6631.4	7215.4	7998.1	8860.3	9764.3
67.5°	2813.1	2799.2	2966.0	3347.5	4469.9	5795.0	5691.6	6019.5	6563.8	7328.7	8139.1
70°	997.3	975.5	1245.6	1774.0	2785.2	4740.0	4891.1	4912.9	5063.9	5477.1	5985.7
72.5°	323.8	329.8	397.3	649.6	1283.4	3190.5	4428.2	4360.6	4320.9	4318.9	4386.4
75°	129.1	131.1	158.9	288.1	576.2	1537.7	3877.9	3915.6	3929.6	3949.4	3971.3
77.5°	61.5	67.6	89.4	160.9	286.0	760.9	2775.3	3095.1	3277.9	3419.0	3504.4
80°	21.8	25.8	49.7	99.3	133.1	349.6	1462.1	1764.1	2032.3	2378.0	2676.0
82.5°	0.0	0.0	9.9	69.5	73.5	141.0	599.9	703.2	804.5	1042.9	1339.0
85°	0.0	0.0	0.0	19.9	21.8	23.9	202.7	244.4	274.2	319.8	369.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.9	11.9	29.8	45.7
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: P165081

CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2
2.5°	488.7	486.8	486.8	482.8	480.7	476.8	474.8	468.8	466.9	466.9	466.9
5°	578.1	570.1	566.2	556.3	550.2	548.3	538.4	534.4	528.4	530.4	520.4
7.5°	677.4	663.5	657.6	643.6	639.7	625.8	621.8	611.9	606.0	594.0	590.0
10°	786.7	768.8	758.9	737.0	731.1	721.2	709.2	697.3	687.4	675.5	669.5
12.5°	911.9	896.0	888.0	858.2	844.4	830.4	814.6	798.6	782.7	772.8	758.9
15°	1058.8	1033.0	1025.1	997.3	973.4	955.6	933.7	913.8	901.9	882.1	868.1
17.5°	1203.9	1178.0	1172.1	1130.4	1104.6	1092.6	1068.9	1042.9	1021.1	1001.3	979.3
20°	1348.9	1331.0	1315.1	1275.4	1247.6	1227.7	1195.9	1170.1	1152.2	1124.5	1096.6
22.5°	1494.0	1476.0	1464.2	1422.5	1396.6	1368.8	1341.0	1313.2	1287.3	1253.6	1221.8
25°	1643.0	1631.0	1625.0	1587.4	1563.5	1537.7	1509.8	1478.1	1446.2	1408.5	1374.8
27.5°	1797.9	1801.9	1789.9	1782.0	1756.1	1738.3	1694.6	1672.8	1648.9	1603.2	1561.4
30°	1994.5	2006.5	2002.5	2008.5	1992.6	1980.7	1946.9	1919.1	1891.3	1847.6	1799.9
32.5°	2242.9	2258.8	2266.7	2288.6	2280.7	2276.7	2266.7	2227.0	2207.1	2131.7	2111.8
35°	2626.3	2618.3	2652.1	2670.0	2662.0	2658.2	2646.2	2624.4	2600.5	2546.8	2497.2
37.5°	3124.9	3132.9	3144.8	3109.1	3085.2	3083.3	3047.5	3025.6	2991.8	2932.3	2872.7
40°	4038.8	3989.2	3933.6	3782.5	3717.0	3679.2	3573.9	3544.1	3486.5	3405.0	3343.5
42.5°	5226.8	5177.1	5010.3	4758.0	4622.9	4436.1	4350.7	4245.4	4164.0	4030.9	3959.4
45°	6406.9	6263.8	6243.9	5949.9	5783.1	5536.7	5383.8	5206.9	5022.2	4847.4	4720.2
47.5°	7402.2	7370.3	7273.1	7094.2	6939.3	6732.6	6536.0	6263.8	6073.1	5824.8	5596.3
50°	8198.7	8196.8	8161.0	8057.7	7928.6	7761.8	7588.9	7358.5	7141.9	6837.9	6593.6
52.5°	8794.8	8826.5	8838.5	8806.6	8757.1	8610.0	8522.7	8329.9	8147.1	7888.8	7624.6
55°	9231.8	9349.0	9408.6	9476.2	9462.3	9410.7	9406.7	9281.5	9198.1	8993.4	8806.6
57.5°	9772.2	9964.9	10149.6	10477.5	10489.3	10604.6	10664.2	10723.8	10739.6	10658.2	10596.7
60°	10459.5	10852.9	11202.5	11888.0	12066.8	12348.8	12531.6	12730.3	12899.1	12913.1	12909.1
62.5°	10944.2	11550.2	12114.4	13131.6	13479.2	13805.1	14049.4	14242.2	14359.3	14478.5	14534.1
63°	10958.2	11621.8	12221.7	13270.6	13636.2	13946.1	14178.6	14357.4	14480.5	14552.0	14587.8
65°	10622.5	11427.0	12142.2	13187.2	13530.9	13842.8	13964.0	14081.2	14140.8	14168.6	14063.2
67.5°	9003.4	9790.1	10624.4	11792.6	12086.6	12460.1	12559.5	12619.1	12646.8	12640.9	12551.5
70°	6732.6	7392.3	8320.0	9655.0	10044.4	10409.9	10636.4	10733.7	10765.5	10755.6	10622.5
72.5°	4700.3	5087.7	5852.6	7338.6	7869.0	8337.8	8618.0	8763.0	8792.8	8733.2	8610.0
75°	3947.4	3967.3	4140.1	4952.6	5449.3	5949.9	6265.7	6357.2	6297.6	6116.8	5803.0
77.5°	3524.2	3568.0	3568.0	3689.1	3786.5	3925.6	3955.4	3732.8	3474.6	3140.8	2870.7
80°	2956.1	3109.1	3216.4	3305.7	3315.6	3287.9	3214.3	3089.2	2890.5	2636.2	2354.1
82.5°	1796.0	2097.9	2221.1	2681.9	2908.4	3061.3	3049.5	2882.5	2731.6	2467.4	2227.0
85°	453.0	488.7	530.4	689.3	772.8	943.6	1050.9	1100.6	1118.4	1027.1	929.8
87.5°	43.7	29.8	49.7	37.8	53.7	39.7	53.7	49.7	61.5	65.5	71.5
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: P165081

CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2
2.5°	462.9	460.8	458.9	457.0	454.9	453.0	449.0	449.0	445.0	443.0	441.1
5°	514.5	510.5	508.6	504.6	498.6	494.6	488.7	480.7	474.8	472.8	468.8
7.5°	580.2	570.1	566.2	560.2	552.3	540.3	532.4	526.5	516.6	510.5	498.6
10°	653.6	643.6	631.8	619.8	607.9	594.0	584.0	576.2	560.2	552.3	538.4
12.5°	747.0	729.1	715.1	699.3	683.4	667.5	655.6	631.8	617.8	599.9	588.0
15°	842.3	826.4	810.6	790.7	766.8	741.0	729.1	707.2	689.3	661.6	645.7
17.5°	957.5	927.7	903.9	880.1	858.2	834.3	810.6	776.8	751.0	727.1	695.4
20°	1070.8	1035.1	1009.1	977.4	945.7	907.9	880.1	856.2	820.5	788.7	755.0
22.5°	1191.9	1156.2	1114.5	1082.7	1039.1	1009.1	971.5	931.7	896.0	854.2	812.5
25°	1339.0	1301.2	1253.6	1211.8	1162.1	1120.5	1074.8	1029.1	985.4	937.7	884.0
27.5°	1519.8	1480.0	1428.4	1378.7	1313.2	1261.5	1217.9	1156.2	1100.6	1041.0	979.3
30°	1748.2	1704.5	1640.9	1569.4	1503.9	1446.2	1384.7	1303.3	1241.6	1170.1	1090.7
32.5°	2046.3	1994.5	1909.1	1841.6	1760.1	1684.6	1599.2	1517.8	1430.4	1337.0	1245.6
35°	2421.7	2374.1	2274.6	2175.4	2086.0	1996.6	1889.3	1796.0	1672.8	1559.5	1442.2
37.5°	2811.1	2725.6	2634.3	2527.0	2415.7	2308.4	2177.3	2048.2	1907.2	1784.0	1636.9
40°	3256.0	3152.8	3077.3	2962.0	2805.1	2652.1	2531.0	2370.1	2193.2	2028.3	1855.5
42.5°	3866.0	3750.8	3615.7	3440.9	3327.6	3148.8	2991.8	2801.1	2568.6	2383.9	2175.4
45°	4571.3	4414.3	4283.2	4114.3	3977.2	3754.8	3572.0	3317.7	3085.2	2842.9	2588.6
47.5°	5375.8	5181.1	4990.4	4823.5	4605.0	4386.4	4154.1	3883.9	3585.9	3319.6	3017.7
50°	6299.5	6023.4	5759.2	5544.7	5244.7	4992.4	4740.0	4436.1	4106.3	3800.4	3456.7
52.5°	7326.6	7006.8	6657.2	6327.4	5979.7	5655.9	5351.9	5002.3	4634.8	4261.3	3877.9
55°	8566.3	8325.9	7914.8	7495.5	7030.6	6597.6	6206.2	5773.2	5326.1	4835.5	4432.2
57.5°	10507.3	10390.0	10046.3	9627.2	9021.3	8494.8	7831.3	7300.8	6653.2	5977.8	5457.2
60°	13137.6	12992.5	12799.8	12460.1	11979.3	11264.2	10533.1	9708.7	8723.3	7787.6	6899.6
62.5°	14540.1	14488.4	14331.5	14097.0	13648.1	13083.9	12346.9	11440.9	10328.5	9192.1	8059.8
63°	14581.8	14516.2	14381.1	14142.7	13747.4	13201.2	12477.9	11597.9	10509.2	9351.1	8194.8
65°	14017.6	13991.8	13854.7	13594.4	13324.3	12907.0	12346.9	11589.9	10676.1	9581.5	8431.2
67.5°	12432.3	12354.8	12144.2	12064.7	11876.1	11585.9	11158.9	10638.3	9984.8	9124.5	8131.2
70°	10515.1	10399.9	10135.7	9994.7	9764.3	9581.5	9321.3	8949.7	8546.4	7946.5	7205.5
72.5°	8482.8	8244.5	8002.1	7634.6	7312.8	6986.9	6698.8	6436.7	5993.6	5751.2	5189.0
75°	5508.9	5075.8	4660.6	4104.4	3603.7	3160.7	2729.6	2511.1	2056.2	1871.4	1607.2
77.5°	2614.4	2372.0	2046.3	1793.9	1472.0	1201.9	981.4	737.0	578.1	453.0	345.6
80°	2109.7	1905.1	1708.5	1480.0	1237.6	987.3	756.9	566.2	401.2	278.1	196.6
82.5°	1881.4	1658.8	1416.4	1259.5	1094.7	896.0	735.1	599.9	443.0	323.8	220.5
85°	731.1	615.9	474.8	387.4	302.0	248.3	224.5	154.9	121.2	95.3	73.5
87.5°	63.6	51.6	41.7	27.9	29.8	15.9	17.9	11.9	9.9	9.9	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: P165081

CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2	419.2
2.5°	439.0	437.1	435.0	431.0	431.0	427.2	425.1	423.2	413.2	391.4	373.5
5°	460.8	457.0	453.0	447.0	443.0	437.1	433.1	427.2	405.2	363.6	327.8
7.5°	492.7	484.7	478.8	466.9	460.8	453.0	447.0	437.1	401.2	337.7	288.1
10°	530.4	516.6	506.6	492.7	480.7	470.9	460.8	447.0	397.3	309.9	252.3
12.5°	576.2	560.2	540.3	524.4	508.6	494.6	480.7	462.9	391.4	286.0	224.5
15°	621.8	598.0	584.0	562.2	540.3	520.4	500.7	484.7	393.4	260.2	200.6
17.5°	673.4	649.6	619.8	596.0	572.2	546.4	522.5	490.6	383.4	240.4	182.8
20°	723.1	689.3	661.6	631.8	598.0	566.2	536.4	508.6	375.4	220.5	166.8
22.5°	776.8	737.0	701.3	663.5	621.8	586.1	550.2	514.5	361.6	202.7	153.0
25°	842.3	796.6	744.9	699.3	655.6	611.9	566.2	522.5	347.7	186.7	143.1
27.5°	921.8	862.2	810.6	752.9	691.4	635.8	586.1	538.4	333.8	174.8	133.1
30°	1023.1	953.5	880.1	806.6	741.0	677.4	607.9	548.3	319.8	162.9	123.2
32.5°	1158.3	1070.8	981.4	896.0	808.5	727.1	653.6	576.2	311.9	153.0	113.3
35°	1337.0	1223.8	1114.5	1007.2	901.9	802.6	707.2	619.8	311.9	141.0	101.3
37.5°	1505.8	1374.8	1235.7	1102.5	977.4	862.2	748.9	643.6	296.0	131.1	91.4
40°	1688.6	1531.6	1368.8	1211.8	1060.9	917.8	788.7	667.5	282.1	119.2	81.4
42.5°	1968.7	1770.1	1557.6	1374.8	1194.0	1017.1	856.2	713.2	264.2	107.2	71.5
45°	2336.3	2083.9	1833.7	1611.1	1380.7	1164.2	973.4	796.6	260.2	97.4	61.5
47.5°	2729.6	2431.6	2137.6	1853.5	1583.4	1331.0	1102.5	890.0	260.2	87.5	53.7
50°	3120.9	2747.6	2433.6	2103.8	1799.9	1501.8	1229.7	987.3	262.3	79.5	43.7
52.5°	3474.6	3075.3	2723.7	2342.2	2006.5	1660.8	1364.8	1082.7	258.3	69.5	35.7
55°	3965.3	3496.5	3089.2	2668.1	2274.6	1885.3	1549.6	1225.7	260.2	61.5	29.8
57.5°	4869.2	4318.9	3828.2	3276.0	2823.0	2320.4	1913.1	1519.8	284.1	51.6	21.8
60°	6166.5	5451.3	4762.0	4088.5	3512.4	2914.4	2385.9	1923.1	333.8	41.7	15.9
62.5°	7038.6	6102.9	5280.5	4537.5	3867.9	3242.2	2666.0	2139.5	367.5	33.8	9.9
63°	7128.0	6160.5	5334.1	4567.3	3883.9	3258.1	2677.9	2155.5	369.5	31.7	9.9
65°	7296.8	6259.8	5363.8	4573.2	3867.9	3236.3	2670.0	2153.5	373.5	25.8	8.0
67.5°	7104.2	6106.9	5191.1	4402.4	3728.8	3107.1	2570.7	2074.0	371.4	17.9	5.9
70°	6353.2	5526.8	4722.2	3987.1	3375.2	2813.1	2340.3	1891.3	341.6	11.9	4.0
72.5°	4664.6	4102.3	3478.6	2948.2	2542.8	2111.8	1801.9	1420.4	264.2	8.0	1.9
75°	1382.6	1259.5	1058.8	933.7	824.4	681.4	606.0	472.8	135.1	4.0	0.0
77.5°	276.1	250.3	224.5	204.6	192.7	164.9	157.0	129.1	55.6	1.9	0.0
80°	145.0	119.2	101.3	89.4	77.5	63.6	53.7	43.7	9.9	0.0	0.0
82.5°	139.1	93.4	67.6	55.6	47.7	37.8	29.8	21.8	5.9	0.0	0.0
85°	51.6	39.7	29.8	23.9	19.9	17.9	13.9	11.9	0.0	0.0	0.0
87.5°	8.0	5.9	5.9	4.0	4.0	1.9	1.9	1.9	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: P165081

CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	419.2	419.2	419.2	419.2	419.2	419.2	419.2
2.5°	355.6	339.7	331.8	321.9	321.9	319.8	323.8
5°	296.0	274.2	258.3	246.3	248.3	242.4	244.4
7.5°	250.3	228.5	214.5	206.7	204.6	202.7	202.7
10°	216.5	196.6	184.7	178.8	176.9	176.9	176.9
12.5°	192.7	172.9	162.9	158.9	158.9	157.0	157.0
15°	172.9	157.0	147.1	143.1	143.1	141.0	143.1
17.5°	157.0	141.0	133.1	129.1	129.1	127.2	127.2
20°	143.1	129.1	121.2	115.2	115.2	113.3	115.2
22.5°	131.1	117.3	107.2	103.3	101.3	99.3	101.3
25°	119.2	105.3	95.3	89.4	87.5	87.5	85.4
27.5°	109.3	95.3	83.5	77.5	75.5	75.5	73.5
30°	99.3	83.5	71.5	65.5	63.6	63.6	63.6
32.5°	89.4	71.5	61.5	55.6	53.7	53.7	53.7
35°	79.5	61.5	51.6	45.7	43.7	43.7	43.7
37.5°	67.6	51.6	39.7	35.7	33.8	31.7	31.7
40°	57.7	39.7	29.8	25.8	21.8	21.8	21.8
42.5°	47.7	31.7	21.8	15.9	13.9	11.9	13.9
45°	39.7	23.9	13.9	8.0	5.9	5.9	5.9
47.5°	31.7	15.9	5.9	1.9	1.9	1.9	1.9
50°	23.9	9.9	1.9	0.0	0.0	1.9	1.9
52.5°	17.9	5.9	0.0	0.0	0.0	0.0	0.0
55°	9.9	1.9	0.0	0.0	0.0	0.0	0.0
57.5°	5.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	4.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.9	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)