

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: P165251

Luminaire Tested: **VST-F03-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165251
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F03-LED-E-U-SL3-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3875 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 78.3
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



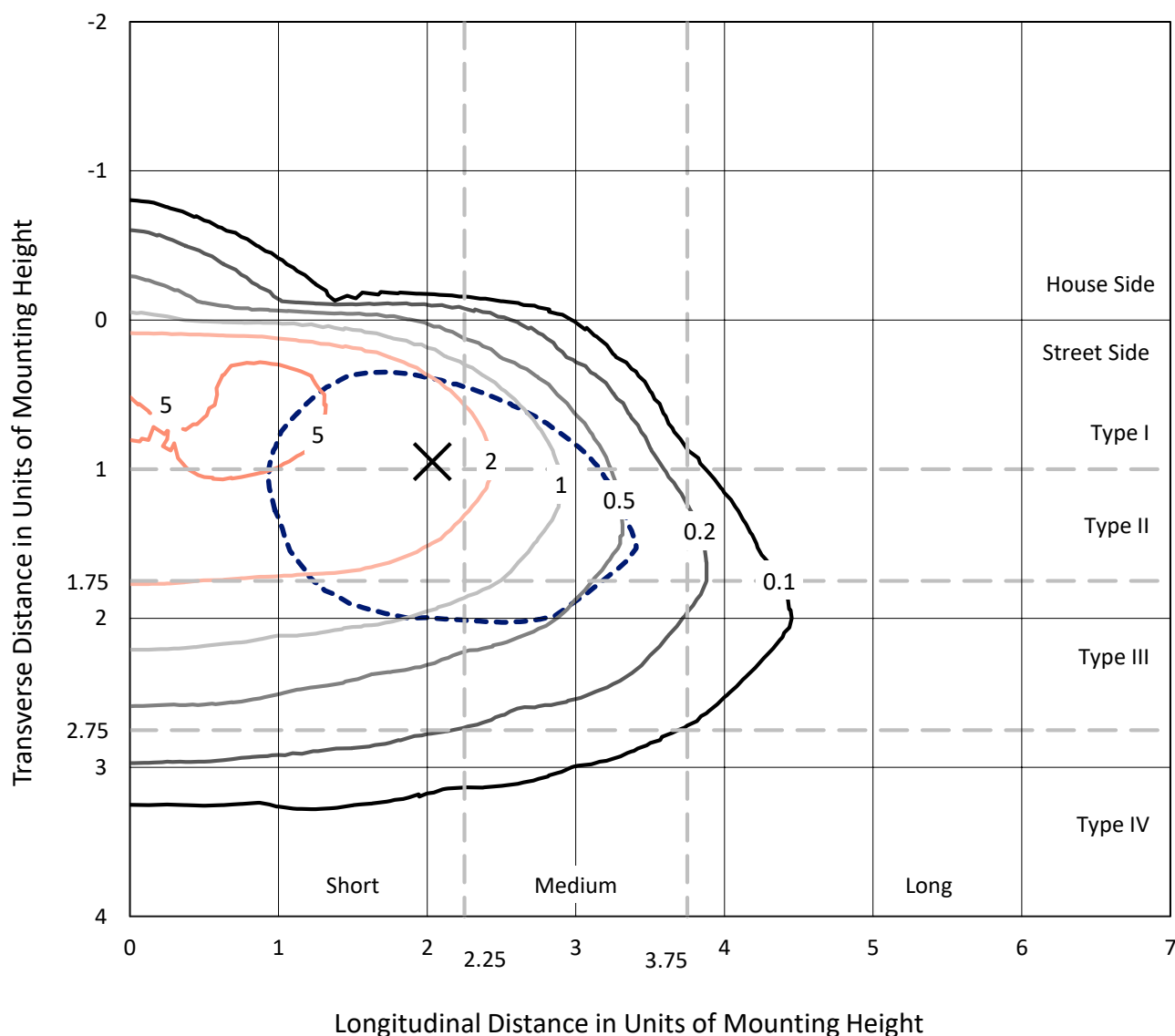
REPORT NUMBER: P165251

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

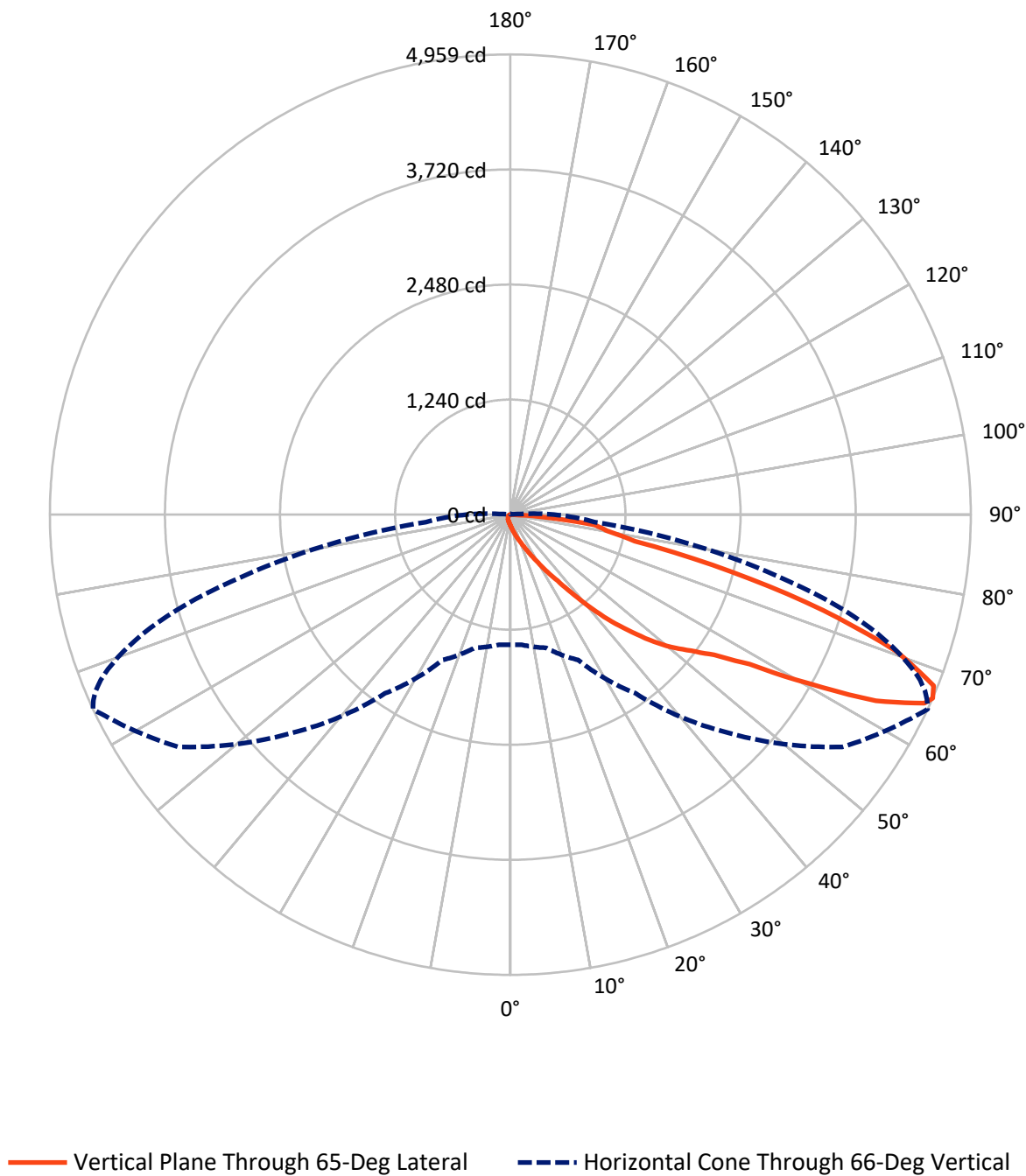


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165251

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P165251

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	84.0	0.0	84.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3791.0	0.0	3791.0
	% Fixture	97.8	0.0	97.8
Total	Lumens	3875.0	0.0	3875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.3
10°-20°	55.5	1.4
20°-30°	119.7	3.1
30°-40°	255.7	6.6
40°-50°	565.5	14.6
50°-60°	958.4	24.7
60°-70°	1278.9	33.0
70°-80°	563.3	14.5
80°-90°	64.9	1.7
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°	3875.0	100.0
0°-180°	3875.0	100.0

Coefficient of Utilization



REPORT NUMBER: P165251

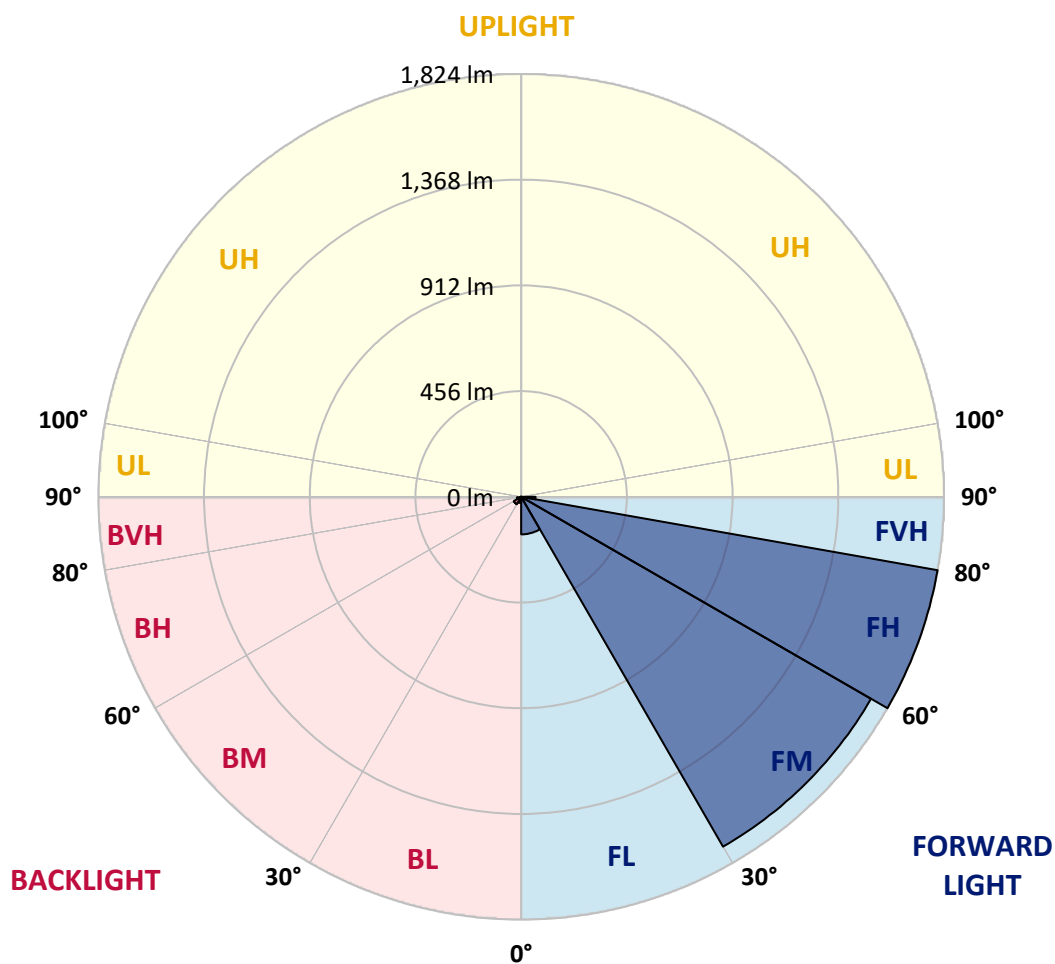
CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	161.9	4.2			
FM	(30°-60°)	1742.7	45.0			
FH	(60°-80°)	1824.2	47.1			G2/5000
FVH	(80°-90°)	62.3	1.6			G1/100
BL	(0°-30°)	26.5	0.7	B0/110		
BM	(30°-60°)	36.9	1.0	B0/220		
BH	(60°-80°)	18.0	0.5	B0/110		G0/110
BVH	(80°-90°)	2.6	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 III Short





REPORT NUMBER: P165251

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	147.5	146.8	143.8	143.8	139.3	136.4	132.6	128.9	128.9	128.1	127.4
5°	195.2	190.7	190.0	181.8	175.1	165.4	156.4	144.5	143.0	141.5	140.8
7.5°	248.1	247.3	240.6	230.9	217.6	199.6	181.8	162.4	159.4	157.9	154.9
10°	316.6	312.9	304.0	287.5	267.5	243.6	214.6	184.0	180.3	177.3	175.8
12.5°	382.2	375.5	370.3	349.4	324.1	289.0	254.0	210.1	207.1	203.4	197.4
15°	443.3	437.3	428.4	410.5	382.2	338.2	297.2	243.6	236.2	230.9	226.4
17.5°	490.9	487.3	476.8	456.7	426.1	387.4	338.2	277.9	271.9	265.2	257.0
20°	536.4	531.2	514.8	487.3	454.4	424.6	386.6	322.6	314.4	306.2	297.2
22.5°	579.6	574.4	547.6	502.1	467.1	454.4	441.1	373.2	360.5	353.9	344.9
25°	640.0	628.8	587.0	514.8	467.9	477.5	500.6	438.8	426.9	417.2	403.0
27.5°	721.1	706.3	640.7	533.4	470.8	502.9	569.2	518.5	505.8	494.6	479.0
30°	812.8	803.1	724.9	578.1	492.4	540.1	645.9	619.8	604.9	591.5	572.9
32.5°	905.2	891.8	814.3	663.1	550.5	612.4	742.0	737.5	718.2	705.5	685.4
35°	986.3	979.7	922.3	802.3	683.2	739.0	870.1	875.3	858.2	844.8	822.5
37.5°	1041.5	1041.5	1030.3	952.1	894.0	935.7	1058.6	1059.4	1042.3	1011.7	1000.5
40°	1069.8	1078.0	1118.2	1133.1	1130.2	1183.8	1306.0	1292.5	1278.4	1262.7	1225.5
42.5°	1127.9	1135.3	1221.0	1323.8	1390.9	1461.7	1545.8	1541.3	1524.2	1495.9	1461.7
45°	1226.3	1235.9	1338.0	1501.1	1639.0	1739.6	1793.2	1772.3	1755.2	1728.4	1710.5
47.5°	1351.4	1370.0	1485.5	1687.4	1853.5	2019.7	2075.5	2020.4	2005.5	1984.6	1955.6
50°	1484.8	1502.6	1625.5	1856.5	2044.3	2242.4	2335.6	2242.4	2220.8	2214.1	2181.3
52.5°	1600.2	1615.1	1733.6	1986.9	2190.2	2422.7	2558.3	2435.3	2419.7	2397.4	2373.5
55°	1668.8	1680.7	1791.7	2049.4	2289.4	2585.1	2773.6	2665.6	2642.5	2633.5	2599.3
57.5°	1691.9	1703.8	1803.6	2057.6	2342.9	2733.4	3035.1	3038.8	3011.2	2979.2	2968.7
60°	1691.9	1705.3	1789.4	2037.5	2395.1	2891.3	3383.7	3694.4	3634.8	3628.8	3590.8
62.5°	1621.9	1634.5	1719.4	1975.7	2465.2	3104.3	3869.5	4417.7	4400.6	4361.9	4299.3
65°	1469.8	1477.3	1560.7	1817.8	2438.3	3300.3	4290.4	4899.0	4871.5	4795.4	4715.0
66°	1401.3	1407.2	1485.5	1727.6	2350.4	3327.1	4364.9	4959.4	4913.9	4849.8	4759.0
67.5°	1302.2	1312.7	1367.8	1560.0	2139.6	3233.9	4318.0	4916.9	4877.4	4799.9	4709.0
70°	869.4	862.0	1056.4	1197.2	1630.0	2635.0	3873.9	4414.7	4415.5	4379.0	4342.5
72.5°	412.7	417.2	473.8	736.8	1066.8	1760.4	3083.5	3523.7	3574.4	3508.9	3463.4
75°	296.5	303.2	337.5	450.7	636.2	1056.4	1998.8	2464.4	2465.9	2349.7	2246.2
77.5°	86.4	90.2	126.6	277.9	476.8	712.9	1148.0	1370.0	1338.0	1254.5	1176.3
80°	35.8	35.8	37.3	88.7	191.5	484.3	803.1	1054.9	1051.2	1019.2	973.0
82.5°	13.4	14.2	17.9	36.5	45.5	119.2	535.6	915.6	913.3	867.9	835.1
85°	1.5	1.5	4.5	15.7	17.2	22.3	107.3	403.7	401.5	403.7	353.9
87.5°	0.0	0.0	0.7	1.5	2.2	3.0	4.5	15.7	17.2	16.4	14.9
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: P165251

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	127.4	125.9	125.9	125.2	125.2	125.2	124.4	123.7	123.7	122.9	122.2
5°	139.3	137.8	137.1	135.6	134.9	134.1	132.6	131.9	130.4	129.6	128.9
7.5°	153.5	150.5	149.8	147.5	145.3	143.8	142.3	140.0	138.5	135.6	134.9
10°	171.4	167.6	164.6	161.6	159.4	155.7	153.5	150.5	147.5	145.3	143.0
12.5°	194.5	189.2	184.7	181.8	176.6	172.1	167.6	165.4	159.4	156.4	152.7
15°	219.8	213.8	208.6	202.6	198.9	191.5	185.5	178.8	175.8	170.6	164.6
17.5°	252.5	242.8	234.7	228.7	221.3	213.8	207.1	200.4	191.5	185.5	178.1
20°	287.5	279.4	268.2	257.8	248.8	239.9	230.2	221.3	213.1	203.4	194.5
22.5°	332.3	320.3	307.0	296.5	284.6	274.9	261.5	249.6	236.2	223.5	213.1
25°	388.9	373.2	360.5	345.7	331.5	316.6	300.2	285.3	268.2	256.3	238.4
27.5°	458.9	444.0	426.9	407.5	393.4	371.0	349.4	330.8	310.7	292.0	271.9
30°	548.3	526.7	508.8	490.2	461.9	440.3	415.0	389.6	362.0	343.4	312.9
32.5°	655.6	632.5	605.6	578.8	552.8	522.2	490.9	459.7	429.1	394.9	363.5
35°	786.7	759.1	728.6	699.5	659.3	626.5	587.0	543.8	509.6	470.1	430.6
37.5°	960.3	914.8	888.0	857.5	803.1	758.4	714.4	671.2	610.9	569.2	513.3
40°	1177.8	1151.0	1107.1	1057.9	1008.7	949.9	890.3	832.9	762.9	704.8	640.0
42.5°	1433.3	1393.9	1349.2	1278.4	1228.5	1159.2	1091.4	1015.4	929.7	855.2	779.3
45°	1673.2	1626.3	1592.0	1521.3	1469.1	1387.1	1305.2	1224.8	1125.7	1029.5	941.6
47.5°	1932.5	1893.7	1837.1	1779.8	1726.9	1634.5	1545.8	1448.3	1343.9	1230.0	1116.0
50°	2160.5	2129.9	2091.2	2021.9	1963.0	1885.6	1781.3	1674.7	1542.8	1429.6	1300.0
52.5°	2354.2	2330.3	2275.9	2226.7	2173.9	2100.8	2007.7	1905.7	1763.4	1639.0	1491.5
55°	2582.9	2565.7	2518.0	2487.5	2440.6	2370.5	2283.4	2188.8	2038.3	1902.7	1735.8
57.5°	2957.6	2944.2	2902.4	2889.8	2843.6	2782.5	2675.2	2573.9	2398.1	2229.7	2039.0
60°	3578.2	3551.3	3490.3	3459.0	3361.3	3279.4	3140.1	3000.8	2788.5	2573.9	2344.4
62.5°	4242.7	4167.4	4051.2	3951.4	3812.8	3670.5	3484.3	3271.3	3022.4	2767.6	2503.9
65°	4601.0	4472.9	4326.1	4167.4	3987.9	3778.6	3543.9	3288.4	3020.9	2752.0	2473.3
66°	4642.0	4497.5	4341.8	4165.2	3965.6	3742.8	3504.4	3236.2	2958.3	2696.1	2417.5
67.5°	4590.6	4439.3	4274.8	4078.8	3862.7	3631.8	3381.5	3102.8	2835.4	2569.4	2298.2
70°	4230.8	4080.2	3933.5	3727.1	3496.9	3264.5	3027.6	2716.3	2462.9	2218.6	1977.2
72.5°	3378.5	3276.4	3131.2	2954.6	2730.4	2457.7	2260.3	1981.7	1761.9	1525.0	1338.0
75°	2111.3	1967.5	1787.9	1563.0	1391.6	1170.4	1054.9	843.3	718.2	608.6	502.9
77.5°	1079.5	971.5	845.6	718.9	597.5	476.8	368.8	260.8	175.8	122.2	90.9
80°	891.8	796.4	692.1	576.6	469.4	364.3	262.3	178.8	114.0	74.5	58.1
82.5°	736.8	656.3	563.2	455.9	362.8	286.1	198.9	129.6	80.5	52.1	41.0
85°	313.6	284.6	219.8	174.3	131.1	96.8	67.8	45.5	32.0	26.0	23.8
87.5°	13.4	14.9	14.2	11.2	8.2	8.2	7.4	6.0	6.0	6.0	6.0
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: P165251

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	122.2	121.4	120.7	120.7	119.9	119.2	114.7	111.0	106.6	103.6	100.6
5°	127.4	126.6	125.2	124.4	122.9	122.2	112.5	104.3	97.6	92.4	88.7
7.5°	132.6	131.9	129.6	127.4	126.6	125.2	109.5	99.1	90.2	84.2	80.5
10°	139.3	137.1	134.9	131.9	129.6	127.4	106.6	93.1	83.4	78.2	74.5
12.5°	149.0	145.3	141.5	137.8	134.9	131.1	105.1	87.9	78.2	72.2	68.5
15°	160.2	154.9	150.5	146.0	140.8	137.1	102.1	83.4	73.7	67.8	63.4
17.5°	170.6	164.6	157.9	151.3	146.0	140.8	99.1	79.0	69.2	63.4	58.9
20°	185.5	176.6	168.4	160.2	152.7	146.0	94.6	74.5	65.6	58.9	54.4
22.5°	201.9	191.5	181.0	169.9	160.2	151.3	90.9	70.7	61.9	55.1	49.9
25°	222.8	210.1	196.0	181.8	170.6	158.7	87.2	67.0	58.1	51.4	46.2
27.5°	251.8	233.9	218.3	200.4	183.2	169.9	84.2	64.1	54.4	47.7	42.5
30°	291.3	265.2	240.6	221.3	201.1	181.8	81.2	60.4	51.4	44.0	38.0
32.5°	335.2	304.7	276.4	247.3	222.0	199.6	78.2	57.4	47.7	40.2	35.0
35°	389.6	350.9	312.9	279.4	248.8	219.0	75.2	54.4	44.7	36.5	31.3
37.5°	467.9	419.4	369.5	326.3	286.8	247.3	73.0	51.4	41.0	32.8	27.5
40°	575.2	512.6	451.4	392.6	341.2	292.0	70.0	48.4	38.0	29.8	24.5
42.5°	691.4	615.4	534.9	468.6	397.9	336.0	67.0	45.5	35.0	26.8	21.6
45°	835.9	741.2	643.7	553.5	467.1	387.4	64.1	42.5	31.3	23.8	18.7
47.5°	993.8	873.1	762.9	649.6	546.8	451.4	60.4	40.2	28.3	20.9	16.4
50°	1156.3	1028.8	889.5	760.6	638.5	515.6	56.6	36.5	25.3	18.7	13.4
52.5°	1331.3	1180.8	1038.5	878.3	736.0	599.7	52.9	33.5	23.1	16.4	11.2
55°	1554.0	1385.7	1218.8	1039.3	867.9	697.3	49.2	29.8	20.2	14.2	8.9
57.5°	1834.1	1634.5	1429.6	1227.0	1019.2	825.4	46.2	26.0	17.2	11.9	7.4
60°	2098.6	1865.5	1617.4	1384.2	1149.5	923.8	41.7	23.1	14.9	9.7	7.4
62.5°	2235.7	1969.7	1702.3	1445.3	1195.0	958.8	37.3	19.4	12.7	8.2	6.7
65°	2202.2	1931.0	1671.7	1412.5	1167.4	936.5	32.8	17.2	11.2	7.4	6.7
66°	2153.8	1885.6	1624.8	1378.2	1144.3	912.6	30.5	16.4	10.4	7.4	6.0
67.5°	2048.0	1788.7	1539.8	1310.4	1081.0	867.2	27.5	14.9	9.7	6.7	6.0
70°	1749.2	1513.8	1314.9	1110.8	923.8	730.9	22.3	12.7	8.2	6.0	6.0
72.5°	1157.7	997.6	865.0	744.2	622.0	482.8	18.7	10.4	6.7	6.0	5.2
75°	436.6	394.9	339.0	304.7	266.0	233.2	14.9	6.7	5.2	5.2	5.2
77.5°	77.5	71.5	63.4	58.1	53.6	49.2	11.9	4.5	4.5	5.2	5.2
80°	52.1	48.4	44.0	40.2	37.3	33.5	8.2	3.7	4.5	4.5	5.2
82.5°	37.3	35.0	32.8	29.8	27.5	24.5	5.2	3.7	4.5	4.5	4.5
85°	22.3	20.9	19.4	17.9	15.7	14.9	3.7	3.7	3.7	4.5	4.5
87.5°	6.0	5.2	6.0	6.0	4.5	5.2	3.0	3.0	3.0	3.7	3.7
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: P165251

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	116.9	116.9	116.9	116.9	116.9
2.5°	99.1	99.1	97.6	99.8	99.8
5°	85.7	85.7	84.9	85.7	85.7
7.5°	78.2	77.5	77.5	77.5	78.2
10°	71.5	70.7	70.7	70.7	70.7
12.5°	65.6	64.8	64.1	64.8	64.8
15°	60.4	58.9	58.9	58.9	58.9
17.5°	55.9	54.4	53.6	53.6	53.6
20°	51.4	49.2	49.2	49.2	49.2
22.5°	46.9	44.7	44.7	44.7	44.7
25°	42.5	40.2	40.2	40.2	40.2
27.5°	38.7	36.5	36.5	36.5	36.5
30°	34.3	32.8	32.8	33.5	32.8
32.5°	31.3	29.0	29.0	29.8	29.8
35°	27.5	26.0	26.0	26.0	26.0
37.5°	23.8	22.3	22.3	22.3	22.3
40°	20.9	19.4	18.7	19.4	19.4
42.5°	17.9	16.4	15.7	15.7	15.7
45°	15.7	13.4	12.7	13.4	13.4
47.5°	12.7	11.2	11.2	11.9	11.9
50°	9.7	9.7	10.4	11.9	11.9
52.5°	8.9	8.9	10.4	11.9	11.9
55°	8.2	8.9	10.4	11.2	11.9
57.5°	7.4	8.9	10.4	11.2	11.2
60°	7.4	8.2	9.7	11.2	11.2
62.5°	6.7	7.4	8.9	10.4	10.4
65°	6.7	7.4	8.9	10.4	10.4
66°	6.7	7.4	8.9	10.4	10.4
67.5°	6.7	7.4	8.9	10.4	10.4
70°	6.7	7.4	8.9	9.7	9.7
72.5°	6.0	6.7	8.2	9.7	9.7
75°	6.0	6.7	8.2	9.7	9.7
77.5°	6.0	6.7	8.2	9.7	9.7
80°	6.0	6.7	8.2	8.9	9.7
82.5°	5.2	6.7	7.4	8.9	8.9
85°	5.2	6.0	7.4	8.2	8.9
87.5°	4.5	5.2	6.0	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)