

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: P165298

Luminaire Tested: **VST-E08-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165298
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-E08-LED-E-U-SL3-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14062.6 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 194.5
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



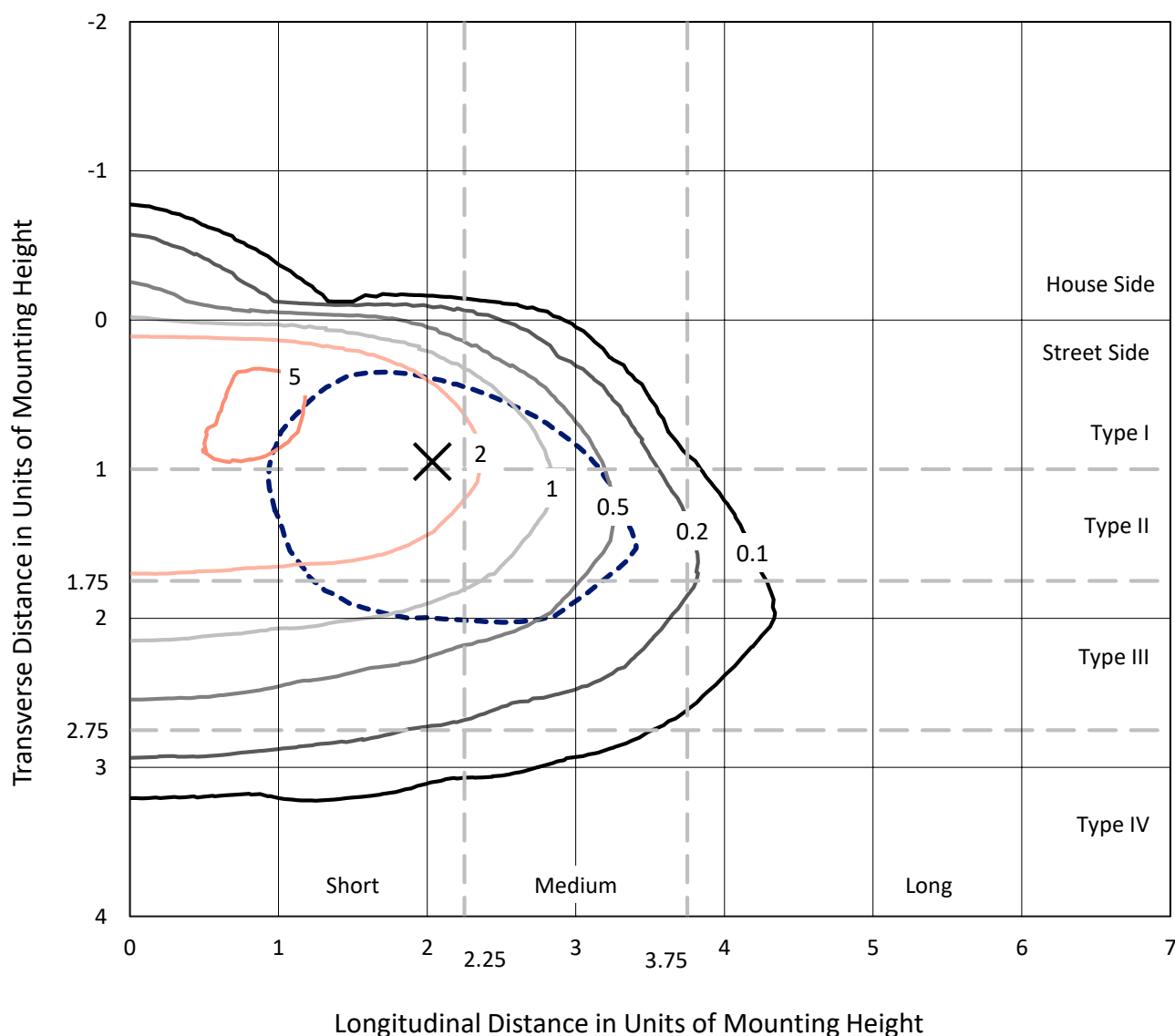
REPORT NUMBER: P165298

CATALOG NUMBER: VST-E08-LED-E-U-SL3-HSS-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

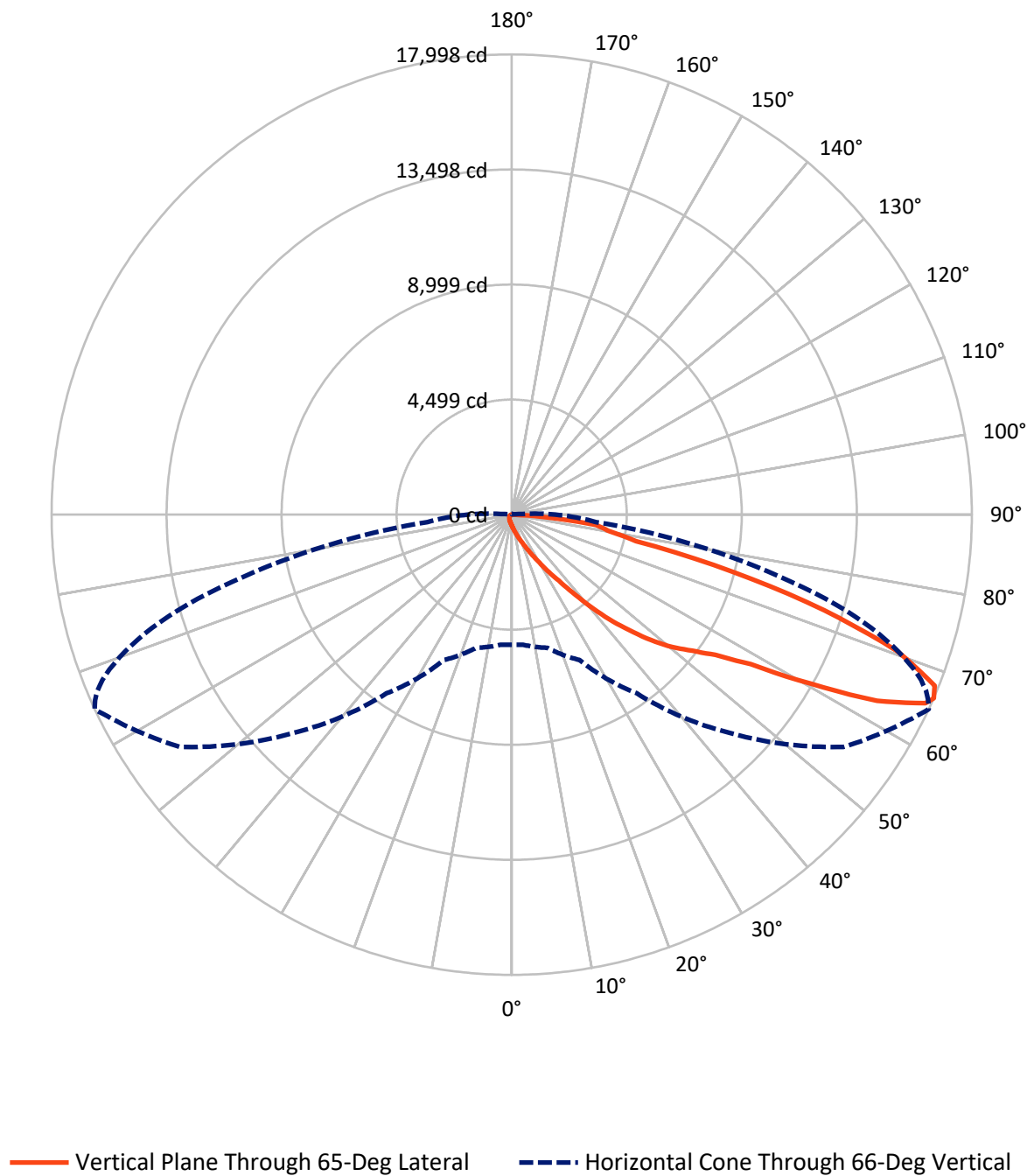


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
Type III - Short - Non-Cutoff

REPORT NUMBER: P165298

CATALOG NUMBER: VST-E08-LED-E-U-SL3-HSS-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P165298

CATALOG NUMBER: VST-E08-LED-E-U-SL3-HSS-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.8	0.0	304.8
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	13757.8	0.0	13757.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	14062.6	0.0	14062.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	0.3
10°-20°	201.5	1.4
20°-30°	434.6	3.1
30°-40°	928.0	6.6
40°-50°	2052.3	14.6
50°-60°	3477.9	24.7
60°-70°	4641.0	33.0
70°-80°	2044.3	14.5
80°-90°	235.5	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°	14062.6	100.0
0°-180°	14062.6	100.0

Coefficient of Utilization



REPORT NUMBER: P165298

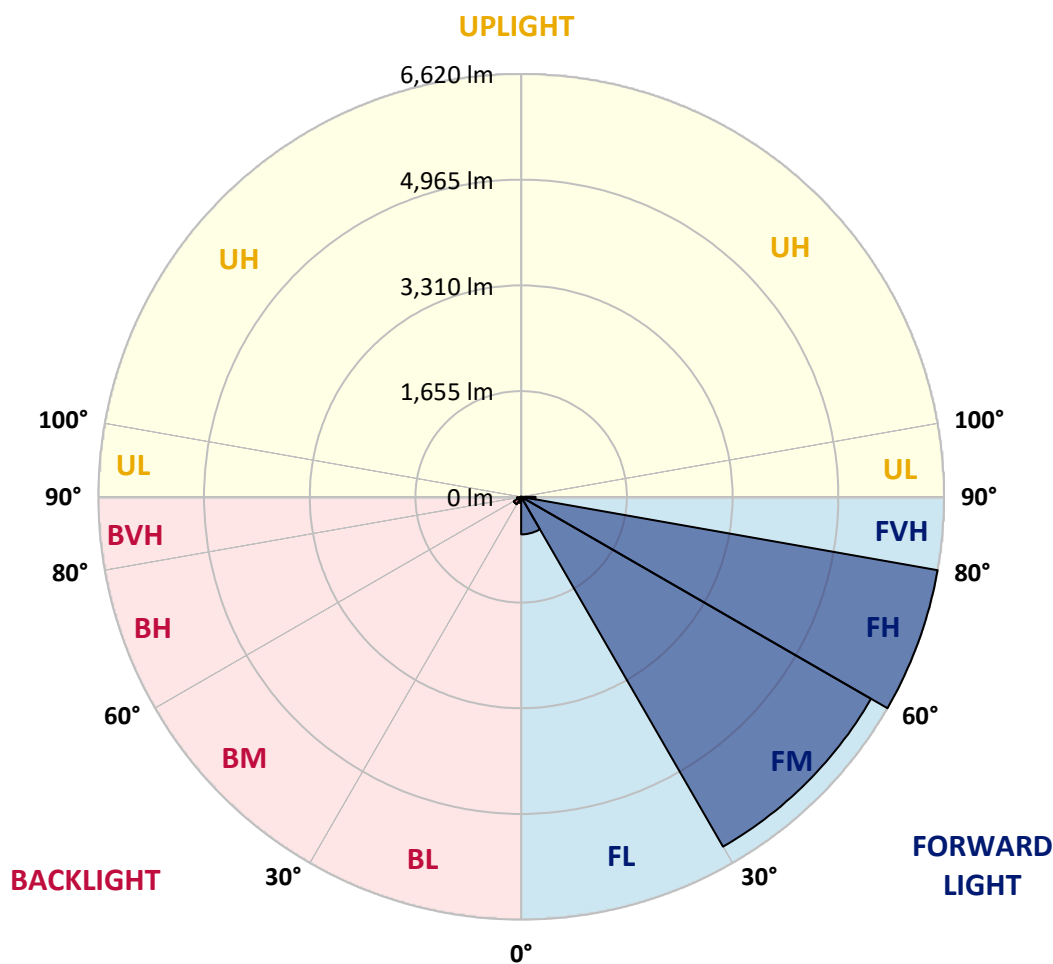
CATALOG NUMBER: VST-E08-LED-E-U-SL3-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	587.4	4.2			
FM	(30°-60°)	6324.4	45.0			
FH	(60°-80°)	6620.0	47.1			G3/7500
FVH	(80°-90°)	226.1	1.6			G3/500
BL	(0°-30°)	96.2	0.7	B0/110		
BM	(30°-60°)	133.8	1.0	B0/220		
BH	(60°-80°)	65.4	0.5	B0/110		G0/110
BVH	(80°-90°)	9.4	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-G3

Type III Short





REPORT NUMBER: P165298

CATALOG NUMBER: VST-E08-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4
2.5°	535.4	532.6	521.8	521.8	505.5	494.8	481.2	467.7	467.7	464.9	462.3
5°	708.3	692.2	689.4	659.7	635.4	600.2	567.7	524.5	519.1	513.7	510.9
7.5°	900.3	897.6	873.3	838.1	789.5	724.5	659.7	589.4	578.6	573.1	562.3
10°	1149.1	1135.4	1103.1	1043.5	970.6	884.1	778.7	667.7	654.2	643.4	638.0
12.5°	1387.0	1362.7	1343.6	1267.9	1176.0	1048.9	921.9	762.4	751.6	738.1	716.5
15°	1608.6	1586.9	1554.6	1489.7	1387.0	1227.4	1078.8	884.1	857.0	838.1	821.9
17.5°	1781.6	1768.2	1730.3	1657.4	1546.4	1405.8	1227.4	1008.4	986.9	962.4	932.7
20°	1946.6	1927.6	1868.2	1768.2	1649.2	1541.0	1403.2	1170.6	1140.9	1111.1	1078.8
22.5°	2103.4	2084.4	1987.2	1822.2	1695.1	1649.2	1600.6	1354.5	1308.5	1284.2	1251.7
25°	2322.4	2281.9	2130.4	1868.2	1697.9	1733.1	1816.8	1592.4	1549.2	1514.0	1462.7
27.5°	2617.1	2563.0	2325.1	1935.8	1708.6	1825.0	2065.5	1881.6	1835.7	1795.1	1738.5
30°	2949.6	2914.5	2630.6	2098.0	1787.1	1960.1	2344.0	2249.4	2195.4	2146.6	2079.1
32.5°	3284.9	3236.3	2955.0	2406.2	1997.9	2222.3	2692.8	2676.6	2606.3	2560.3	2487.3
35°	3579.5	3555.3	3347.1	2911.7	2479.2	2682.0	3157.8	3176.7	3114.6	3065.8	2984.7
37.5°	3779.7	3779.7	3739.1	3455.1	3244.3	3395.7	3841.7	3844.5	3782.3	3671.5	3630.9
40°	3882.3	3912.0	4058.1	4112.1	4101.3	4296.0	4739.5	4690.7	4639.3	4582.5	4447.4
42.5°	4093.3	4120.2	4431.1	4804.3	5047.6	5304.4	5609.9	5593.7	5531.6	5428.8	5304.4
45°	4450.2	4485.3	4855.7	5447.7	5947.8	6312.9	6507.5	6431.8	6369.6	6272.4	6207.4
47.5°	4904.3	4971.9	5390.9	6123.6	6726.5	7329.3	7532.1	7332.1	7278.1	7202.3	7096.9
50°	5388.3	5453.1	5899.2	6737.3	7418.7	8137.8	8475.8	8137.8	8059.4	8035.0	7916.1
52.5°	5807.3	5861.4	6291.3	7210.5	7948.5	8792.0	9284.0	8838.0	8781.2	8700.1	8613.5
55°	6056.0	6099.3	6502.1	7437.5	8308.2	9381.4	10065.5	9673.5	9589.6	9557.2	9432.8
57.5°	6139.9	6183.1	6545.4	7467.3	8502.7	9919.4	11014.5	11027.9	10927.9	10811.7	10773.8
60°	6139.9	6188.5	6494.0	7394.4	8692.0	10492.5	12279.6	13407.0	13190.8	13169.1	13031.2
62.5°	5885.7	5931.7	6239.9	7169.9	8946.2	11265.8	14042.4	16032.2	15970.1	15829.4	15602.4
65°	5334.1	5361.2	5663.9	6596.8	8848.8	11976.9	15569.9	17778.7	17678.7	17402.9	17111.0
66°	5085.4	5107.0	5390.9	6269.6	8529.8	12074.2	15840.3	17997.7	17832.9	17600.3	17270.4
67.5°	4725.8	4763.8	4963.7	5661.3	7764.7	11736.2	15670.0	17843.7	17700.4	17419.2	17089.3
70°	3155.2	3128.1	3833.7	4344.6	5915.5	9562.6	14058.6	16021.4	16024.2	15891.7	15759.2
72.5°	1497.8	1514.0	1719.4	2673.8	3871.5	6388.6	11190.1	12787.9	12971.8	12733.9	12568.9
75°	1076.0	1100.3	1224.8	1635.7	2308.8	3833.7	7253.7	8943.4	8948.8	8527.0	8151.4
77.5°	313.6	327.2	459.5	1008.4	1730.3	2587.3	4166.2	4971.9	4855.7	4552.8	4268.9
80°	129.7	129.7	135.1	321.8	694.8	1757.3	2914.5	3828.3	3814.8	3698.6	3531.0
82.5°	48.6	51.4	64.8	132.5	165.0	432.6	1943.9	3322.8	3314.6	3149.7	3030.7
85°	5.4	5.4	16.3	56.8	62.2	81.1	389.3	1465.3	1457.2	1465.3	1284.2
87.5°	0.0	0.0	2.6	5.4	8.0	10.8	16.3	56.8	62.2	59.4	54.0
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: P165298

CATALOG NUMBER: VST-E08-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4
2.5°	462.3	456.9	456.9	454.3	454.3	454.3	451.5	448.9	448.9	446.1	443.4
5°	505.5	500.1	497.5	492.0	489.4	486.6	481.2	478.6	473.2	470.4	467.7
7.5°	556.9	546.1	543.4	535.4	527.2	521.8	516.3	508.3	502.9	492.0	489.4
10°	621.9	608.3	597.4	586.6	578.6	565.1	556.9	546.1	535.4	527.2	519.1
12.5°	705.6	686.8	670.5	659.7	640.8	624.5	608.3	600.2	578.6	567.7	554.3
15°	797.6	775.9	757.0	735.3	721.9	694.8	673.1	648.8	638.0	619.1	597.4
17.5°	916.4	881.3	851.6	830.1	803.0	775.9	751.6	727.3	694.8	673.1	646.2
20°	1043.5	1013.8	973.2	935.5	903.0	870.6	835.3	803.0	773.3	738.1	705.6
22.5°	1205.9	1162.5	1113.9	1076.0	1032.8	997.7	948.9	905.8	857.0	811.0	773.3
25°	1411.3	1354.5	1308.5	1254.5	1203.1	1149.1	1089.5	1035.5	973.2	930.1	865.2
27.5°	1665.4	1611.4	1549.2	1478.9	1427.5	1346.4	1267.9	1200.5	1127.4	1059.8	986.9
30°	1989.8	1911.5	1846.5	1779.0	1676.2	1597.8	1505.8	1414.1	1313.9	1246.4	1135.4
32.5°	2379.1	2295.4	2198.0	2100.6	2006.1	1895.3	1781.6	1668.0	1557.2	1432.9	1319.3
35°	2855.0	2754.9	2644.1	2538.7	2392.7	2273.7	2130.4	1973.6	1849.3	1706.0	1562.6
37.5°	3485.0	3320.0	3222.6	3111.8	2914.5	2752.3	2592.7	2435.9	2216.9	2065.5	1862.8
40°	4274.3	4177.0	4017.6	3839.1	3660.7	3447.1	3230.8	3022.7	2768.5	2557.5	2322.4
42.5°	5201.6	5058.5	4896.2	4639.3	4458.2	4206.7	3960.8	3684.9	3374.0	3103.8	2827.9
45°	6072.2	5902.0	5777.5	5520.8	5331.5	5034.0	4736.7	4444.8	4085.0	3736.3	3417.3
47.5°	7013.1	6872.4	6667.1	6458.9	6267.0	5931.7	5609.9	5255.8	4877.2	4463.6	4049.9
50°	7840.4	7729.6	7588.9	7337.6	7124.0	6842.7	6464.3	6077.7	5599.1	5188.2	4717.8
52.5°	8543.3	8456.8	8259.4	8080.9	7889.0	7624.0	7286.2	6915.8	6399.5	5947.8	5412.6
55°	9373.4	9311.1	9138.1	9027.3	8857.0	8602.9	8286.5	7943.2	7397.0	6905.0	6299.3
57.5°	10733.2	10684.6	10533.1	10487.1	10319.5	10097.9	9708.6	9340.8	8702.9	8091.8	7399.8
60°	12985.2	12888.0	12666.2	12552.8	12198.5	11901.2	11395.7	10890.0	10119.5	9340.8	8508.1
62.5°	15396.8	15123.8	14702.0	14339.9	13837.0	13320.5	12644.6	11871.5	10968.5	10043.8	9086.7
65°	16697.3	16232.3	15699.7	15123.8	14472.4	13712.5	12861.0	11933.7	10963.1	9987.0	8975.9
66°	16846.0	16321.5	15756.5	15115.8	14391.3	13582.8	12717.6	11744.4	10735.9	9784.3	8773.1
67.5°	16659.5	16110.7	15513.2	14802.2	14018.1	13180.0	12271.6	11260.4	10289.8	9324.6	8340.5
70°	15353.7	14807.4	14274.9	13526.0	12690.5	11847.2	10987.4	9857.3	8938.1	8051.2	7175.4
72.5°	12260.7	11890.3	11363.2	10722.4	9908.6	8919.1	8202.6	7191.6	6394.0	5534.2	4855.7
75°	7662.0	7140.2	6488.6	5672.1	5050.2	4247.3	3828.3	3060.4	2606.3	2208.8	1825.0
77.5°	3917.4	3525.5	3068.6	2608.9	2168.3	1730.3	1338.2	946.3	638.0	443.4	329.8
80°	3236.3	2890.2	2511.6	2092.6	1703.3	1322.1	951.7	648.8	413.7	270.4	210.8
82.5°	2673.8	2381.9	2043.8	1654.6	1316.7	1038.3	721.9	470.4	291.9	189.3	148.7
85°	1138.2	1032.8	797.6	632.6	475.8	351.5	246.1	165.0	116.2	94.6	86.5
87.5°	48.6	54.0	51.4	40.6	29.7	29.7	27.1	21.7	21.7	21.7	21.7
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: P165298

CATALOG NUMBER: VST-E08-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4
2.5°	443.4	440.7	438.0	438.0	435.2	432.6	416.4	402.9	386.6	375.8	365.0
5°	462.3	459.5	454.3	451.5	446.1	443.4	408.3	378.4	354.1	335.2	321.8
7.5°	481.2	478.6	470.4	462.3	459.5	454.3	397.5	359.5	327.2	305.5	291.9
10°	505.5	497.5	489.4	478.6	470.4	462.3	386.6	337.9	302.7	283.9	270.4
12.5°	540.6	527.2	513.7	500.1	489.4	475.8	381.2	319.0	283.9	262.2	248.7
15°	581.4	562.3	546.1	530.0	510.9	497.5	370.4	302.7	267.6	246.1	229.8
17.5°	619.1	597.4	573.1	548.8	530.0	510.9	359.5	286.7	251.4	229.8	213.6
20°	673.1	640.8	611.1	581.4	554.3	530.0	343.3	270.4	237.9	213.6	197.3
22.5°	732.7	694.8	657.0	616.5	581.4	548.8	329.8	256.8	224.4	200.1	181.1
25°	808.4	762.4	711.1	659.7	619.1	575.9	316.4	243.3	210.8	186.5	167.6
27.5°	913.8	849.0	792.2	727.3	665.1	616.5	305.5	232.5	197.3	173.0	154.2
30°	1057.1	962.4	873.3	803.0	729.9	659.7	294.7	219.0	186.5	159.6	137.9
32.5°	1216.6	1105.7	1003.0	897.6	805.6	724.5	283.9	208.2	173.0	146.0	127.1
35°	1414.1	1273.4	1135.4	1013.8	903.0	794.8	273.0	197.3	162.2	132.5	113.6
37.5°	1697.9	1522.1	1341.0	1184.2	1040.9	897.6	265.0	186.5	148.7	119.0	100.0
40°	2087.2	1860.1	1638.3	1424.7	1238.2	1059.8	254.1	175.7	137.9	108.2	89.1
42.5°	2509.0	2233.1	1941.2	1700.5	1443.8	1219.3	243.3	165.0	127.1	97.4	78.5
45°	3033.5	2690.0	2335.9	2008.7	1695.1	1405.8	232.5	154.2	113.6	86.5	67.6
47.5°	3606.6	3168.6	2768.5	2357.6	1984.4	1638.3	219.0	146.0	102.8	75.7	59.4
50°	4196.0	3733.7	3228.0	2760.3	2317.0	1871.0	205.5	132.5	91.9	67.6	48.6
52.5°	4831.2	4285.2	3768.8	3187.5	2671.2	2176.3	191.9	121.7	83.7	59.4	40.6
55°	5639.6	5028.7	4423.1	3771.5	3149.7	2530.6	178.5	108.2	73.1	51.4	32.5
57.5°	6656.2	5931.7	5188.2	4452.8	3698.6	2995.6	167.6	94.6	62.2	43.2	27.1
60°	7616.0	6769.8	5869.5	5023.3	4171.6	3352.5	151.4	83.7	54.0	35.1	27.1
62.5°	8113.5	7148.3	6177.6	5245.0	4336.6	3479.6	135.1	70.3	46.0	29.7	24.3
65°	7991.8	7007.7	6066.8	5125.9	4236.6	3398.5	119.0	62.2	40.6	27.1	24.3
66°	7816.1	6842.7	5896.6	5001.6	4152.7	3311.9	110.8	59.4	37.9	27.1	21.7
67.5°	7432.1	6491.2	5588.3	4755.5	3922.8	3146.9	100.0	54.0	35.1	24.3	21.7
70°	6348.1	5493.7	4771.8	4031.0	3352.5	2652.3	81.1	46.0	29.7	21.7	21.7
72.5°	4201.3	3620.1	3138.9	2700.9	2257.4	1751.9	67.6	37.9	24.3	21.7	18.9
75°	1584.3	1432.9	1230.2	1105.7	965.2	846.2	54.0	24.3	18.9	18.9	18.9
77.5°	281.2	259.6	229.8	210.8	194.7	178.5	43.2	16.3	16.3	18.9	18.9
80°	189.3	175.7	159.6	146.0	135.1	121.7	29.7	13.5	16.3	16.3	18.9
82.5°	135.1	127.1	119.0	108.2	100.0	89.1	18.9	13.5	16.3	16.3	16.3
85°	81.1	75.7	70.3	64.8	56.8	54.0	13.5	13.5	13.5	16.3	16.3
87.5°	21.7	18.9	21.7	21.7	16.3	18.9	10.8	10.8	10.8	13.5	13.5
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: P165298

CATALOG NUMBER: VST-E08-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	424.4	424.4	424.4	424.4	424.4
2.5°	359.5	359.5	354.1	362.3	362.3
5°	311.0	311.0	308.2	311.0	311.0
7.5°	283.9	281.2	281.2	281.2	283.9
10°	259.6	256.8	256.8	256.8	256.8
12.5°	237.9	235.3	232.5	235.3	235.3
15°	219.0	213.6	213.6	213.6	213.6
17.5°	202.8	197.3	194.7	194.7	194.7
20°	186.5	178.5	178.5	178.5	178.5
22.5°	170.3	162.2	162.2	162.2	162.2
25°	154.2	146.0	146.0	146.0	146.0
27.5°	140.5	132.5	132.5	132.5	132.5
30°	124.4	119.0	119.0	121.7	119.0
32.5°	113.6	105.4	105.4	108.2	108.2
35°	100.0	94.6	94.6	94.6	94.6
37.5°	86.5	81.1	81.1	81.1	81.1
40°	75.7	70.3	67.6	70.3	70.3
42.5°	64.8	59.4	56.8	56.8	56.8
45°	56.8	48.6	46.0	48.6	48.6
47.5°	46.0	40.6	40.6	43.2	43.2
50°	35.1	35.1	37.9	43.2	43.2
52.5°	32.5	32.5	37.9	43.2	43.2
55°	29.7	32.5	37.9	40.6	43.2
57.5°	27.1	32.5	37.9	40.6	40.6
60°	27.1	29.7	35.1	40.6	40.6
62.5°	24.3	27.1	32.5	37.9	37.9
65°	24.3	27.1	32.5	37.9	37.9
66°	24.3	27.1	32.5	37.9	37.9
67.5°	24.3	27.1	32.5	37.9	37.9
70°	24.3	27.1	32.5	35.1	35.1
72.5°	21.7	24.3	29.7	35.1	35.1
75°	21.7	24.3	29.7	35.1	35.1
77.5°	21.7	24.3	29.7	35.1	35.1
80°	21.7	24.3	29.7	32.5	35.1
82.5°	18.9	24.3	27.1	32.5	32.5
85°	18.9	21.7	27.1	29.7	32.5
87.5°	16.3	18.9	21.7	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)