

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: P165315

Luminaire Tested: **VST-E10-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165315
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-E10-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (210) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14458.4 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

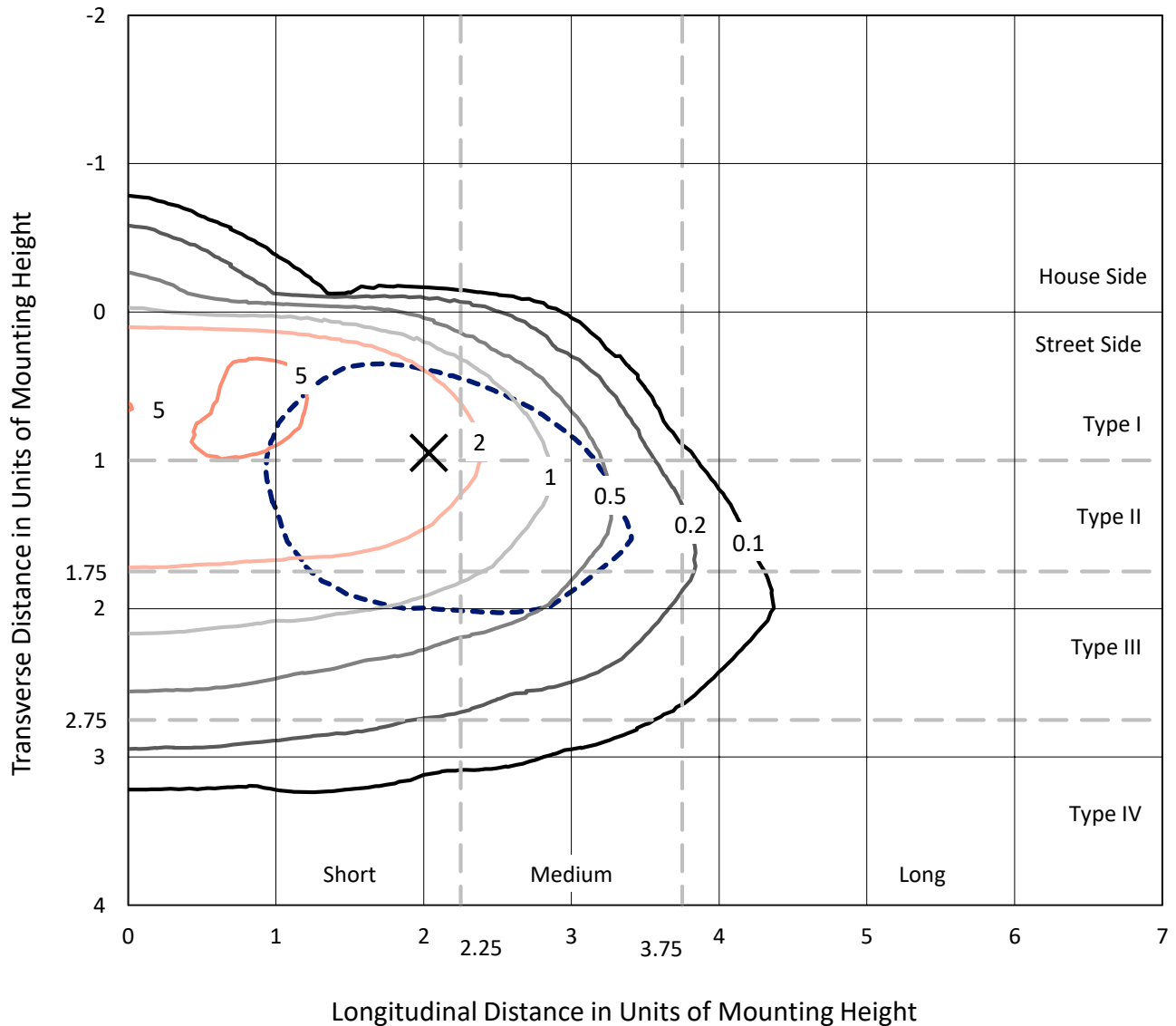
Input Watts (W): 247.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

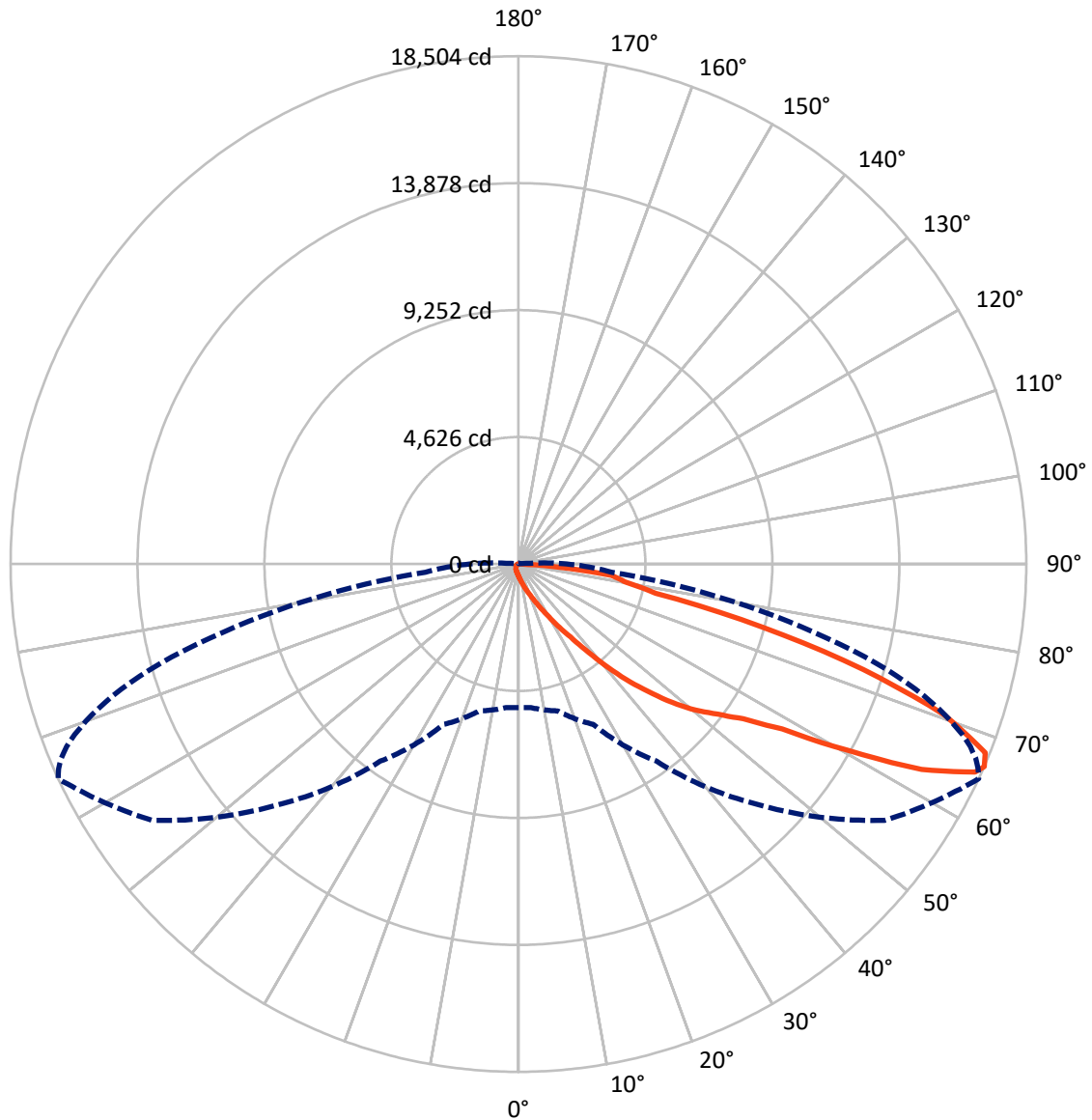
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Non-Cutoff

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CATALOG NUMBER: VST-E10-LED-E-U-SL3-HSS-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	313.3	0.0	313.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	14145.1	0.0	14145.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	14458.4	0.0	14458.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.3
10°-20°	207.2	1.4
20°-30°	446.8	3.1
30°-40°	954.1	6.6
40°-50°	2110.0	14.6
50°-60°	3575.8	24.7
60°-70°	4771.7	33.0
70°-80°	2101.9	14.5
80°-90°	242.1	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°	14458.4	100.0
0°-180°	14458.4	100.0

Coefficient of Utilization



REPORT NUMBER: P165315

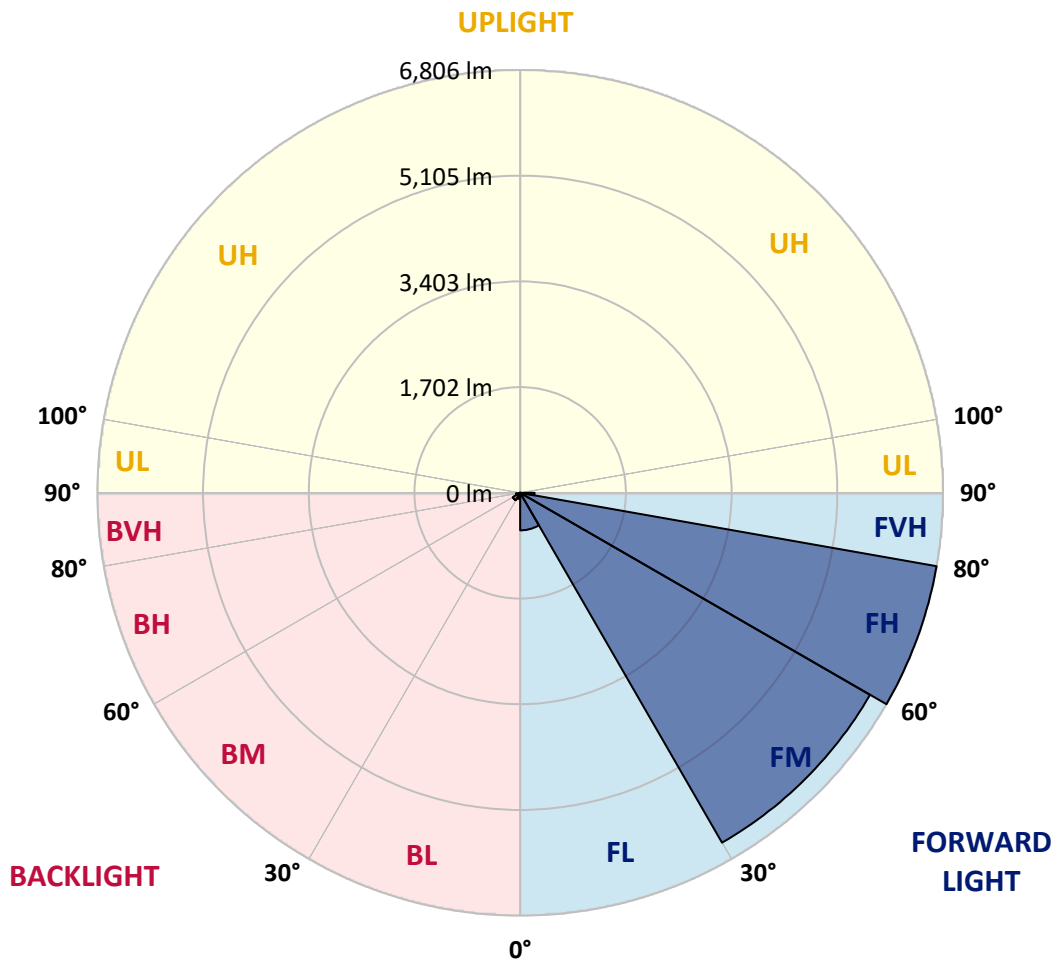
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.9	4.2			
FM	(30°-60°)	6502.4	45.0			
FH	(60°-80°)	6806.3	47.1			G3/7500
FVH	(80°-90°)	232.5	1.6			G3/500
BL	(0°-30°)	98.9	0.7	B0/110		
BM	(30°-60°)	137.6	1.0	B0/220		
BH	(60°-80°)	67.2	0.5	B0/110		G0/110
BVH	(80°-90°)	9.7	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-G3

Type III Short





REPORT NUMBER: P165315
 CATALOG NUMBER: VST-E10-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
2.5°	550.5	547.6	536.4	536.4	519.7	508.8	494.7	480.9	480.9	478.0	475.3
5°	728.2	711.7	708.8	678.2	653.2	617.1	583.7	539.3	533.7	528.2	525.3
7.5°	925.7	922.8	897.8	861.7	811.8	744.9	678.2	606.0	594.8	589.3	578.1
10°	1181.4	1167.4	1134.2	1072.9	997.9	909.0	800.6	686.5	672.7	661.5	655.9
12.5°	1426.0	1401.0	1381.4	1303.6	1209.1	1078.5	947.8	783.9	772.8	758.9	736.6
15°	1653.9	1631.6	1598.4	1531.7	1426.0	1261.9	1109.2	909.0	881.1	861.7	845.0
17.5°	1831.8	1818.0	1779.0	1704.0	1589.9	1445.4	1261.9	1036.8	1014.6	989.5	958.9
20°	2001.4	1981.9	1920.8	1818.0	1695.6	1584.3	1442.7	1203.5	1173.0	1142.4	1109.2
22.5°	2162.6	2143.1	2043.1	1873.5	1742.8	1695.6	1645.6	1392.6	1345.3	1320.3	1286.9
25°	2387.8	2346.1	2190.3	1920.8	1745.7	1781.8	1867.9	1637.2	1592.8	1556.7	1503.8
27.5°	2690.8	2635.1	2390.5	1990.3	1756.7	1876.4	2123.6	1934.6	1887.3	1845.6	1787.4
30°	3032.6	2996.5	2704.7	2157.1	1837.4	2015.3	2409.9	2312.7	2257.2	2207.0	2137.7
32.5°	3377.3	3327.3	3038.2	2473.9	2054.1	2284.9	2768.6	2751.9	2679.7	2632.4	2557.3
35°	3680.3	3655.3	3441.3	2993.6	2549.0	2757.5	3246.7	3266.1	3202.3	3152.1	3068.8
37.5°	3886.1	3886.1	3844.4	3552.4	3335.6	3491.3	3949.9	3952.7	3888.8	3774.8	3733.1
40°	3991.6	4022.1	4172.4	4227.9	4216.7	4416.9	4872.9	4822.7	4769.9	4711.5	4572.6
42.5°	4208.5	4236.2	4555.9	4939.5	5189.7	5453.7	5767.8	5751.1	5687.3	5581.6	5453.7
45°	4575.4	4611.6	4992.4	5601.1	6115.2	6490.6	6690.7	6612.8	6548.9	6448.9	6382.1
47.5°	5042.3	5111.9	5542.7	6296.0	6915.8	7535.7	7744.1	7538.5	7483.0	7405.0	7296.6
50°	5540.0	5606.6	6065.3	6927.0	7627.5	8366.8	8714.4	8366.8	8286.3	8261.2	8138.9
52.5°	5970.7	6026.4	6468.3	7413.4	8172.2	9039.5	9545.4	9086.7	9028.3	8945.0	8856.0
55°	6226.5	6271.0	6685.1	7646.9	8542.0	9645.5	10348.8	9945.8	9859.5	9826.2	9698.3
57.5°	6312.7	6357.1	6729.6	7677.4	8742.1	10198.6	11324.5	11338.3	11235.5	11116.0	11077.0
60°	6312.7	6362.7	6676.8	7602.5	8936.7	10787.9	12625.3	13784.4	13562.1	13539.8	13398.0
62.5°	6051.4	6098.7	6415.5	7371.8	9198.0	11582.9	14437.6	16483.5	16419.7	16275.0	16041.6
65°	5484.3	5512.1	5823.4	6782.5	9097.9	12314.0	16008.1	18279.2	18176.4	17892.8	17592.7
66°	5228.5	5250.8	5542.7	6446.1	8769.9	12414.1	16286.2	18504.3	18334.9	18095.7	17756.6
67.5°	4858.9	4897.8	5103.4	5820.7	7983.3	12066.5	16111.1	18346.0	18198.6	17909.5	17570.4
70°	3244.0	3216.1	3941.6	4466.9	6082.0	9831.8	14454.4	16472.3	16475.2	16339.0	16202.8
72.5°	1539.9	1556.7	1767.8	2749.0	3980.4	6568.4	11505.1	13147.9	13336.9	13092.3	12922.7
75°	1106.3	1131.3	1259.2	1681.7	2373.8	3941.6	7457.8	9195.1	9200.7	8767.0	8380.8
77.5°	322.4	336.4	472.5	1036.8	1779.0	2660.1	4283.4	5111.9	4992.4	4680.9	4389.1
80°	133.4	133.4	138.9	330.8	714.4	1806.8	2996.5	3936.0	3922.2	3802.7	3630.3
82.5°	50.0	52.8	66.7	136.2	169.6	444.8	1998.6	3416.3	3407.9	3238.4	3116.0
85°	5.6	5.6	16.7	58.4	64.0	83.4	400.2	1506.5	1498.3	1506.5	1320.3
87.5°	0.0	0.0	2.7	5.6	8.3	11.1	16.7	58.4	64.0	61.1	55.5
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: P165315
 CATALOG NUMBER: VST-E10-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
2.5°	475.3	469.8	469.8	467.1	467.1	467.1	464.2	461.5	461.5	458.6	455.9
5°	519.7	514.2	511.5	505.9	503.2	500.3	494.7	492.0	486.5	483.6	480.9
7.5°	572.6	561.4	558.7	550.5	542.0	536.4	530.9	522.6	517.0	505.9	503.2
10°	639.4	625.4	614.3	603.1	594.8	581.0	572.6	561.4	550.5	542.0	533.7
12.5°	725.5	706.1	689.4	678.2	658.8	642.1	625.4	617.1	594.8	583.7	569.9
15°	820.0	797.7	778.3	756.0	742.2	714.4	692.1	667.1	655.9	636.5	614.3
17.5°	942.2	906.1	875.6	853.4	825.6	797.7	772.8	747.8	714.4	692.1	664.4
20°	1072.9	1042.3	1000.6	961.8	928.4	895.1	858.8	825.6	795.0	758.9	725.5
22.5°	1239.8	1195.3	1145.3	1106.3	1061.9	1025.8	975.7	931.3	881.1	833.9	795.0
25°	1451.0	1392.6	1345.3	1289.8	1237.0	1181.4	1120.1	1064.6	1000.6	956.2	889.6
27.5°	1712.3	1656.8	1592.8	1520.5	1467.7	1384.3	1303.6	1234.3	1159.1	1089.6	1014.6
30°	2045.8	1965.3	1898.5	1829.1	1723.4	1642.7	1548.2	1453.9	1350.9	1281.5	1167.4
32.5°	2446.1	2360.0	2259.9	2159.8	2062.5	1948.6	1831.8	1715.0	1601.1	1473.3	1356.5
35°	2935.4	2832.4	2718.5	2610.1	2460.1	2337.7	2190.3	2029.1	1901.3	1754.0	1606.6
37.5°	3583.1	3413.4	3313.3	3199.4	2996.5	2829.7	2665.7	2504.5	2279.3	2123.6	1915.2
40°	4394.7	4294.6	4130.7	3947.2	3763.7	3544.1	3321.8	3107.7	2846.4	2629.5	2387.8
42.5°	5348.0	5200.8	5034.1	4769.9	4583.7	4325.1	4072.3	3788.7	3469.0	3191.1	2907.5
45°	6243.2	6068.1	5940.2	5676.2	5481.6	5175.7	4870.0	4569.9	4200.0	3841.5	3513.5
47.5°	7210.6	7065.9	6854.7	6640.7	6443.4	6098.7	5767.8	5403.7	5014.5	4589.3	4163.9
50°	8061.1	7947.2	7802.5	7544.1	7324.5	7035.3	6646.3	6248.7	5756.7	5334.2	4850.6
52.5°	8783.8	8694.8	8491.9	8308.4	8111.1	7838.7	7491.3	7110.5	6579.6	6115.2	5564.9
55°	9637.2	9573.2	9395.3	9281.4	9106.3	8845.0	8519.8	8166.8	7605.2	7099.3	6476.6
57.5°	11035.4	10985.4	10829.6	10782.3	10610.0	10382.1	9981.9	9603.8	8947.8	8319.6	7608.1
60°	13350.8	13250.8	13022.8	12906.1	12541.9	12236.2	11716.5	11196.6	10404.4	9603.8	8747.6
62.5°	15830.2	15549.5	15115.9	14743.5	14226.5	13695.4	13000.5	12205.6	11277.2	10326.6	9342.5
65°	17167.3	16689.2	16141.7	15549.5	14879.7	14098.5	13223.0	12269.6	11271.7	10268.2	9228.5
66°	17320.2	16780.9	16200.1	15541.2	14796.3	13965.2	13075.6	12075.0	11038.1	10059.7	9020.1
67.5°	17128.5	16564.2	15949.9	15218.8	14412.7	13550.9	12617.0	11577.4	10579.4	9587.1	8575.3
70°	15785.8	15224.2	14676.7	13906.8	13047.8	12180.6	11296.6	10134.8	9189.7	8277.9	7377.3
72.5°	12605.8	12225.0	11683.0	11024.2	10187.5	9170.1	8433.5	7394.0	6574.0	5690.0	4992.4
75°	7877.6	7341.2	6671.2	5831.8	5192.4	4366.8	3936.0	3146.6	2679.7	2271.0	1876.4
77.5°	4027.7	3624.8	3155.0	2682.4	2229.3	1779.0	1375.9	973.0	655.9	455.9	339.1
80°	3327.3	2971.5	2582.3	2151.5	1751.3	1359.3	978.5	667.1	425.4	278.0	216.7
82.5°	2749.0	2448.9	2101.4	1701.1	1353.8	1067.5	742.2	483.6	300.1	194.6	152.9
85°	1170.3	1061.9	820.0	650.4	489.2	361.4	253.0	169.6	119.5	97.2	89.0
87.5°	50.0	55.5	52.8	41.7	30.6	30.6	27.9	22.3	22.3	22.3	22.3
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: P165315
 CATALOG NUMBER: VST-E10-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
2.5°	455.9	453.1	450.4	450.4	447.5	444.8	428.1	414.2	397.5	386.4	375.2
5°	475.3	472.5	467.1	464.2	458.6	455.9	419.8	389.1	364.1	344.7	330.8
7.5°	494.7	492.0	483.6	475.3	472.5	467.1	408.7	369.7	336.4	314.1	300.1
10°	519.7	511.5	503.2	492.0	483.6	475.3	397.5	347.4	311.3	291.9	278.0
12.5°	555.9	542.0	528.2	514.2	503.2	489.2	391.9	328.0	291.9	269.6	255.7
15°	597.7	578.1	561.4	544.9	525.3	511.5	380.8	311.3	275.1	253.0	236.3
17.5°	636.5	614.3	589.3	564.3	544.9	525.3	369.7	294.7	258.4	236.3	219.6
20°	692.1	658.8	628.3	597.7	569.9	544.9	353.0	278.0	244.6	219.6	202.9
22.5°	753.3	714.4	675.5	633.8	597.7	564.3	339.1	264.0	230.7	205.8	186.2
25°	831.2	783.9	731.1	678.2	636.5	592.1	325.3	250.2	216.7	191.8	172.3
27.5°	939.5	872.9	814.5	747.8	683.8	633.8	314.1	239.0	202.9	177.9	158.5
30°	1086.9	989.5	897.8	825.6	750.5	678.2	303.0	225.2	191.8	164.1	141.8
32.5°	1250.8	1136.9	1031.2	922.8	828.3	744.9	291.9	214.0	177.9	150.1	130.6
35°	1453.9	1309.2	1167.4	1042.3	928.4	817.2	280.7	202.9	166.8	136.2	116.8
37.5°	1745.7	1564.9	1378.7	1217.5	1070.2	922.8	272.4	191.8	152.9	122.4	102.8
40°	2145.9	1912.5	1684.4	1464.8	1273.1	1089.6	261.3	180.6	141.8	111.2	91.7
42.5°	2579.6	2296.0	1995.9	1748.4	1484.4	1253.7	250.2	169.6	130.6	100.1	80.7
45°	3118.9	2765.8	2401.7	2065.2	1742.8	1445.4	239.0	158.5	116.8	89.0	69.5
47.5°	3708.2	3257.8	2846.4	2423.9	2040.3	1684.4	225.2	150.1	105.7	77.8	61.1
50°	4314.1	3838.8	3318.9	2838.0	2382.2	1923.6	211.3	136.2	94.5	69.5	50.0
52.5°	4967.2	4405.8	3874.9	3277.2	2746.3	2237.6	197.3	125.1	86.1	61.1	41.7
55°	5798.4	5170.3	4547.6	3877.6	3238.4	2601.9	183.5	111.2	75.1	52.8	33.4
57.5°	6843.6	6098.7	5334.2	4578.1	3802.7	3079.9	172.3	97.2	64.0	44.4	27.9
60°	7830.4	6960.4	6034.7	5164.7	4289.0	3446.9	155.6	86.1	55.5	36.1	27.9
62.5°	8341.8	7349.5	6351.5	5392.6	4458.6	3577.5	138.9	72.2	47.3	30.6	25.0
65°	8216.8	7205.0	6237.6	5270.2	4355.8	3494.1	122.4	64.0	41.7	27.9	25.0
66°	8036.1	7035.3	6062.6	5142.4	4269.6	3405.2	113.9	61.1	39.0	27.9	22.3
67.5°	7641.3	6673.9	5745.6	4889.4	4033.3	3235.5	102.8	55.5	36.1	25.0	22.3
70°	6526.8	5648.3	4906.1	4144.5	3446.9	2726.9	83.4	47.3	30.6	22.3	22.3
72.5°	4319.5	3722.0	3227.3	2776.9	2321.0	1801.2	69.5	39.0	25.0	22.3	19.4
75°	1628.9	1473.3	1264.8	1136.9	992.4	870.0	55.5	25.0	19.4	19.4	19.4
77.5°	289.2	266.9	236.3	216.7	200.2	183.5	44.4	16.7	16.7	19.4	19.4
80°	194.6	180.6	164.1	150.1	138.9	125.1	30.6	13.8	16.7	16.7	19.4
82.5°	138.9	130.6	122.4	111.2	102.8	91.7	19.4	13.8	16.7	16.7	16.7
85°	83.4	77.8	72.2	66.7	58.4	55.5	13.8	13.8	13.8	16.7	16.7
87.5°	22.3	19.4	22.3	22.3	16.7	19.4	11.1	11.1	11.1	13.8	13.8
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: P165315

CATALOG NUMBER: VST-E10-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	436.3	436.3	436.3	436.3	436.3
2.5°	369.7	369.7	364.1	372.5	372.5
5°	319.7	319.7	316.8	319.7	319.7
7.5°	291.9	289.2	289.2	289.2	291.9
10°	266.9	264.0	264.0	264.0	264.0
12.5°	244.6	241.9	239.0	241.9	241.9
15°	225.2	219.6	219.6	219.6	219.6
17.5°	208.5	202.9	200.2	200.2	200.2
20°	191.8	183.5	183.5	183.5	183.5
22.5°	175.0	166.8	166.8	166.8	166.8
25°	158.5	150.1	150.1	150.1	150.1
27.5°	144.5	136.2	136.2	136.2	136.2
30°	127.9	122.4	122.4	125.1	122.4
32.5°	116.8	108.4	108.4	111.2	111.2
35°	102.8	97.2	97.2	97.2	97.2
37.5°	89.0	83.4	83.4	83.4	83.4
40°	77.8	72.2	69.5	72.2	72.2
42.5°	66.7	61.1	58.4	58.4	58.4
45°	58.4	50.0	47.3	50.0	50.0
47.5°	47.3	41.7	41.7	44.4	44.4
50°	36.1	36.1	39.0	44.4	44.4
52.5°	33.4	33.4	39.0	44.4	44.4
55°	30.6	33.4	39.0	41.7	44.4
57.5°	27.9	33.4	39.0	41.7	41.7
60°	27.9	30.6	36.1	41.7	41.7
62.5°	25.0	27.9	33.4	39.0	39.0
65°	25.0	27.9	33.4	39.0	39.0
66°	25.0	27.9	33.4	39.0	39.0
67.5°	25.0	27.9	33.4	39.0	39.0
70°	25.0	27.9	33.4	36.1	36.1
72.5°	22.3	25.0	30.6	36.1	36.1
75°	22.3	25.0	30.6	36.1	36.1
77.5°	22.3	25.0	30.6	36.1	36.1
80°	22.3	25.0	30.6	33.4	36.1
82.5°	19.4	25.0	27.9	33.4	33.4
85°	19.4	22.3	27.9	30.6	33.4
87.5°	16.7	19.4	22.3	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)