

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: P157840

Luminaire Tested: **VST-E10-LED-E-U-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
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-5XQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (210) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31625.8 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U2 - G5

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



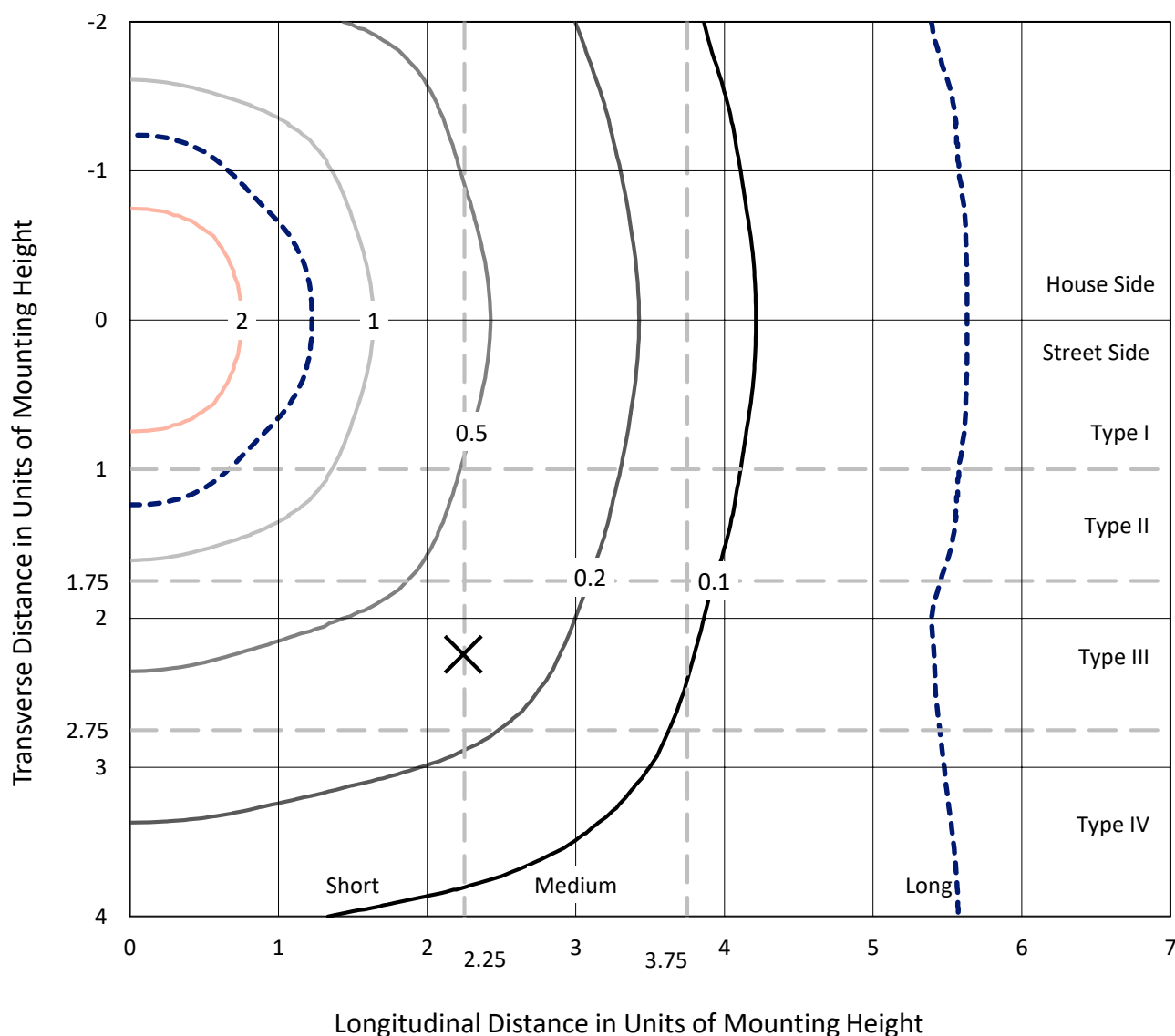
REPORT NUMBER: P157840

CATALOG NUMBER: VST-E10-LED-E-U-5XQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

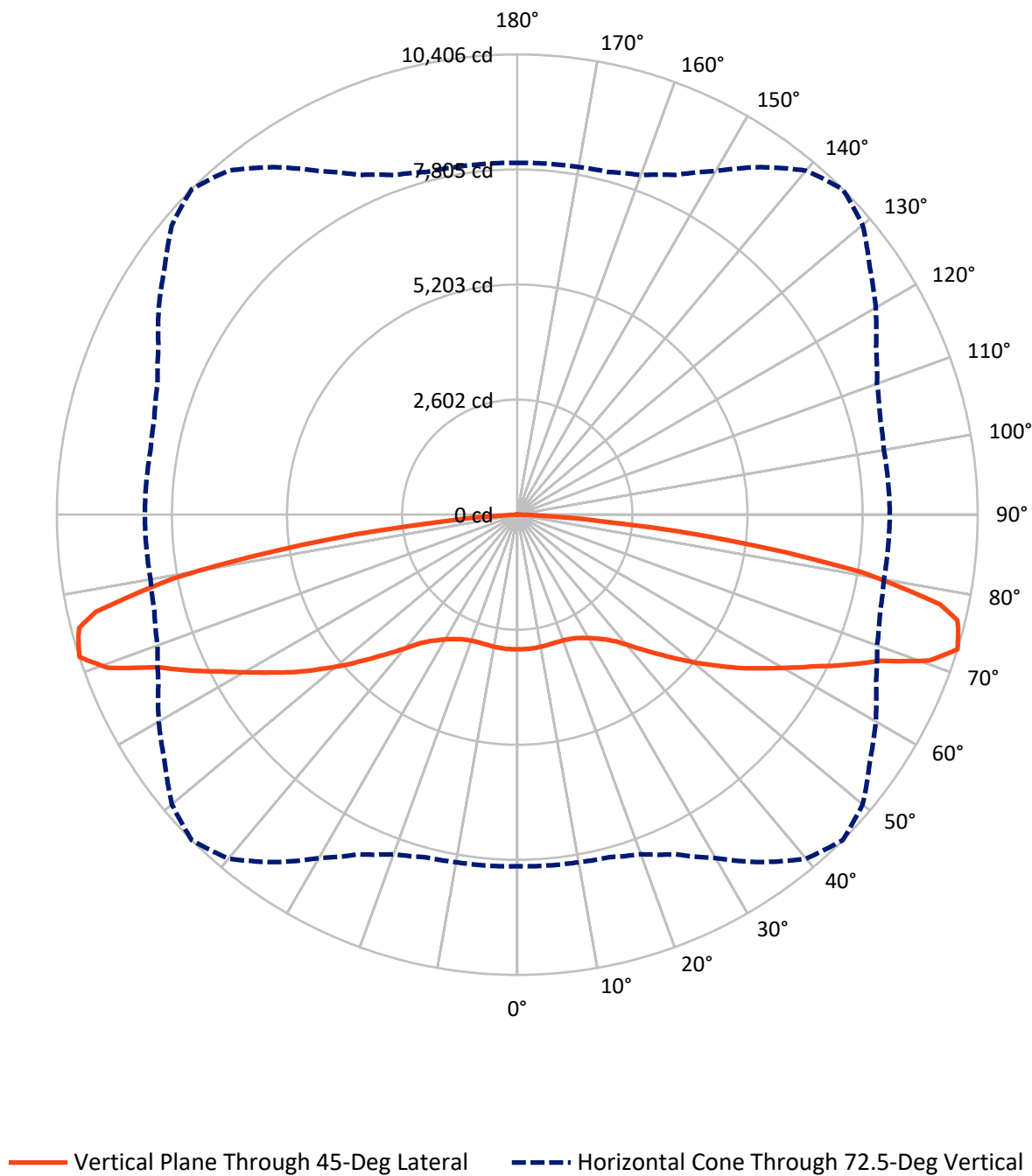


Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157840

CATALOG NUMBER: VST-E10-LED-E-U-5XQ

Luminous Intensity Polar Plot



REPORT NUMBER: P157840

CATALOG NUMBER: VST-E10-LED-E-U-5XQ

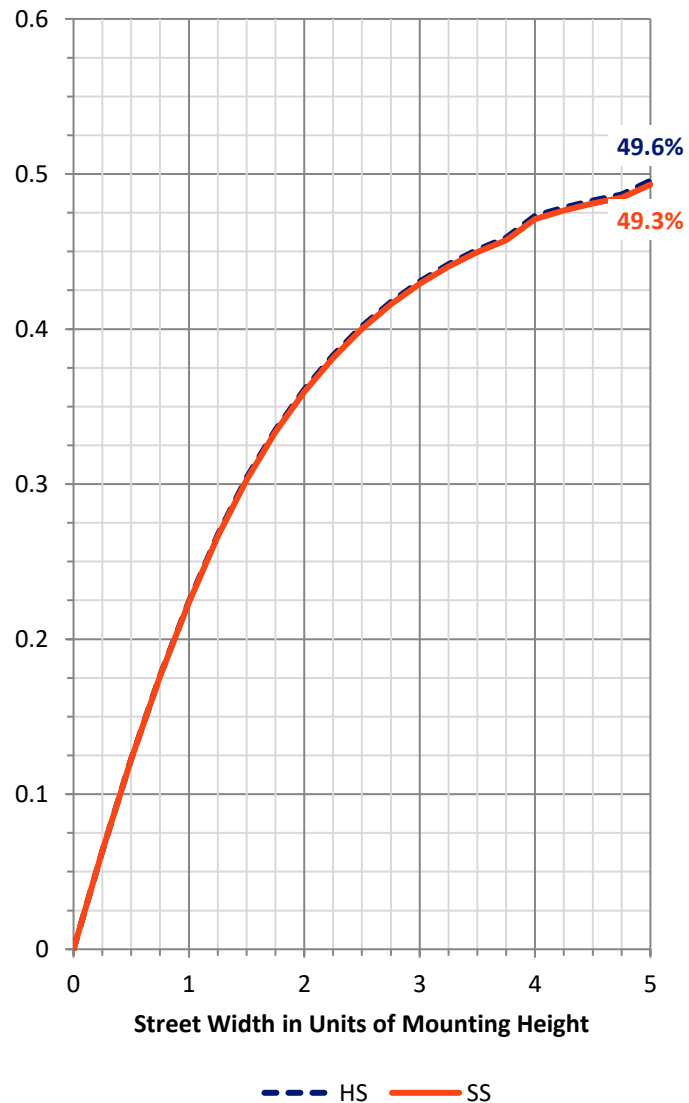
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15805.2	7.7	15812.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15805.2	7.7	15812.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	31610.4	15.4	31625.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.4	0.9
10°-20°	857.8	2.7
20°-30°	1434.4	4.5
30°-40°	2180.2	6.9
40°-50°	3453.0	10.9
50°-60°	5281.9	16.7
60°-70°	7559.4	23.9
70°-80°	8649.6	27.3
80°-90°	1903.7	6.0
90°-100°	1.6	0.0
100°-110°	3.3	0.0
110°-120°	2.3	0.0
120°-130°	2.5	0.0
130°-140°	2.3	0.0
140°-150°	1.8	0.0
150°-160°	1.2	0.0
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-90°	31610.4	100.0
0°-180°	31625.8	100.0

Coefficient of Utilization



REPORT NUMBER: P157840

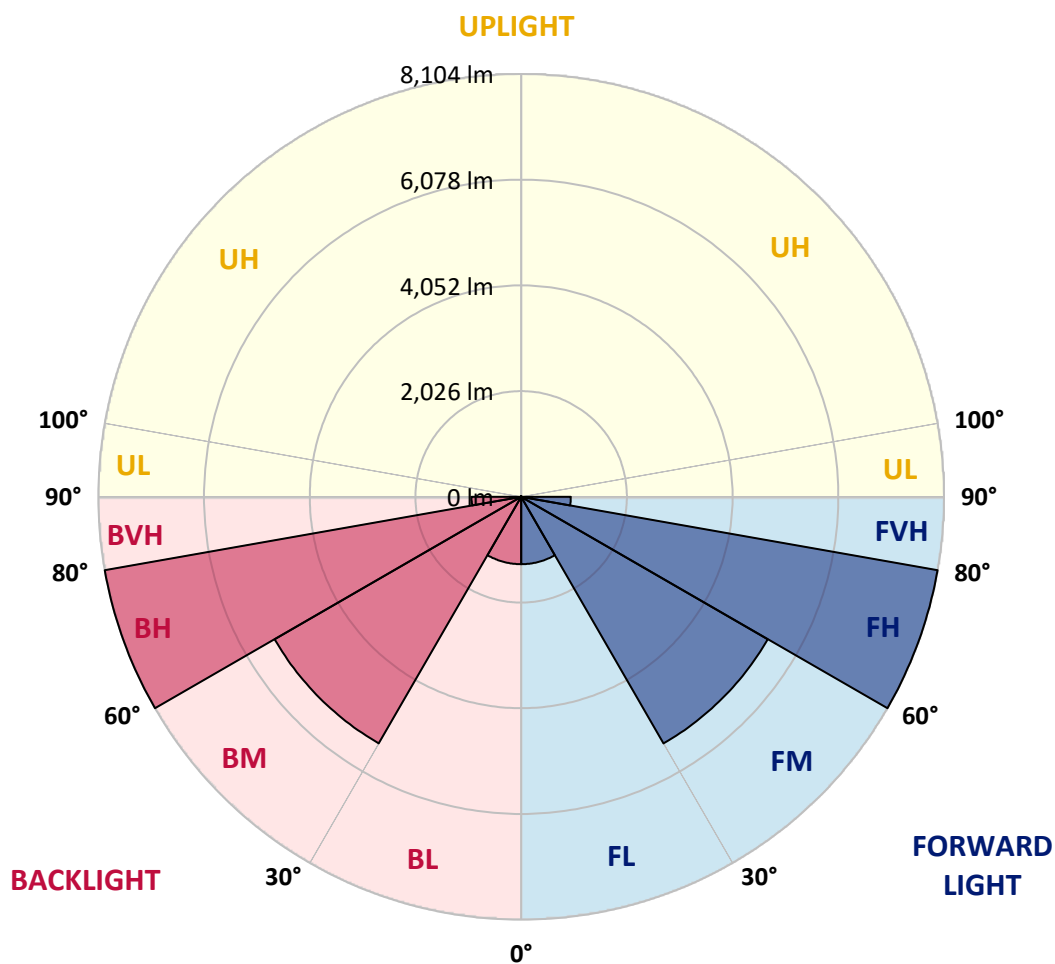
CATALOG NUMBER: VST-E10-LED-E-U-5XQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1291.3	4.1			
FM	(30°-60°)	5457.6	17.3			
FH	(60°-80°)	8104.5	25.6			G4/12000
FVH	(80°-90°)	951.8	3.0			G5
BL	(0°-30°)	1291.3	4.1	B3/2500		
BM	(30°-60°)	5457.6	17.3	B4/8500		
BH	(60°-80°)	8104.5	25.6	B5		G4/12000
BVH	(80°-90°)	951.8	3.0			G5
UL	(90°-100°)	1.6	0.0		U1/10	
UH	(100°-180°)	7.7	0.0		U1/10	

BUG Rating: B5-U2-G5

Type V Short





REPORT NUMBER: P157840

CATALOG NUMBER: VST-E10-LED-E-U-5XQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3044	3044	3044	3044	3044	3044	3044	3044	3044	3044	3044
2.5°	3046	3042	3044	3048	3046	3046	3044	3044	3048	3044	3046
5°	3048	3044	3046	3048	3046	3048	3046	3046	3046	3044	3048
7.5°	3040	3040	3042	3042	3040	3042	3042	3042	3040	3040	3044
10°	3036	3034	3034	3036	3034	3034	3036	3036	3032	3032	3036
12.5°	3030	3028	3028	3028	3026	3026	3028	3028	3026	3024	3030
15°	3026	3024	3024	3024	3020	3022	3022	3022	3020	3018	3024
17.5°	3024	3022	3022	3022	3020	3020	3020	3020	3018	3018	3022
20°	3028	3028	3028	3028	3026	3026	3026	3028	3028	3028	3032
22.5°	3038	3038	3040	3042	3042	3046	3048	3050	3050	3052	3056
25°	3064	3064	3066	3068	3074	3078	3086	3090	3092	3092	3094
27.5°	3112	3114	3118	3122	3130	3136	3144	3152	3154	3156	3158
30°	3172	3174	3182	3186	3196	3208	3218	3226	3232	3236	3234
32.5°	3258	3262	3272	3278	3292	3304	3318	3330	3336	3342	3340
35°	3378	3388	3398	3404	3418	3428	3446	3458	3470	3466	3468
37.5°	3556	3564	3566	3570	3584	3592	3612	3628	3634	3638	3640
40°	3796	3796	3806	3798	3816	3818	3842	3864	3870	3886	3874
42.5°	4076	4074	4080	4074	4074	4094	4114	4154	4158	4178	4166
45°	4380	4380	4374	4376	4380	4402	4426	4470	4490	4502	4494
47.5°	4710	4702	4700	4698	4710	4734	4770	4812	4862	4866	4862
50°	5044	5042	5028	5040	5048	5060	5128	5184	5236	5268	5258
52.5°	5396	5378	5378	5378	5398	5436	5496	5572	5642	5676	5670
55°	5752	5746	5728	5720	5746	5800	5886	5978	6070	6122	6102
57.5°	6078	6068	6070	6072	6102	6174	6274	6396	6496	6552	6538
60°	6334	6322	6344	6350	6404	6524	6684	6838	6970	7026	7004
62.5°	6624	6616	6630	6628	6686	6820	7034	7280	7480	7552	7520
65°	7092	7068	7062	7040	7078	7182	7396	7682	8002	8186	8142
67.5°	7652	7646	7626	7614	7628	7758	7964	8240	8566	8820	8876
70°	8022	8030	8050	8080	8196	8448	8824	9242	9690	9880	9846
72.5°	7952	7964	7980	8018	8170	8472	8968	9592	10154	10406	10190
75°	7610	7620	7656	7714	7900	8266	8800	9462	10042	10294	10068
76°	7294	7326	7392	7460	7684	8082	8652	9358	9972	10228	10010
77.5°	6578	6606	6660	6778	7032	7542	8208	8902	9542	9772	9588
80°	4950	4974	5024	5166	5386	5702	6218	6896	7598	7900	7780
82.5°	2090	2118	2316	2522	2764	3106	3442	4042	4558	4902	4718
85°	230	284	350	476	584	778	968	1332	1684	1898	1678
87.5°	40	46	66	84	94	108	130	182	248	214	218
90°	6	6	6	6	6	6	6	4	4	4	4
92.5°	0	0	0	0	0	0	0	0	0	2	2
95°	0	0	0	0	0	0	2	2	2	2	2
97.5°	0	0	0	2	2	2	2	2	2	2	2
100°	2	2	2	2	2	2	2	2	4	4	4
102.5°	2	2	2	2	2	4	4	4	4	4	4
105°	2	2	2	4	4	4	4	4	4	4	4
107.5°	2	2	2	2	4	4	2	2	2	4	2



REPORT NUMBER: P157840

CATALOG NUMBER: VST-E10-LED-E-U-5XQ

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	2	2	2	2	2	2	2	2	2	2	2
112.5°	2	2	2	2	2	2	2	2	2	2	2
115°	2	2	2	2	2	2	2	2	2	2	2
117.5°	4	4	4	2	2	2	2	2	2	2	2
120°	4	4	4	2	2	2	2	2	2	2	2
122.5°	4	4	4	4	2	2	2	2	2	2	2
125°	4	4	4	4	2	2	2	2	2	2	2
127.5°	4	4	4	4	2	2	2	2	2	2	2
130°	4	4	4	4	4	2	2	2	2	2	2
132.5°	4	4	4	4	2	2	2	2	2	2	2
135°	4	4	4	4	4	2	2	2	2	2	2
137.5°	4	4	4	4	4	2	2	2	2	2	2
140°	4	4	4	4	4	2	2	2	2	2	2
142.5°	4	4	4	4	2	2	2	2	2	2	2
145°	4	4	4	4	4	2	2	2	2	2	2
147.5°	4	4	4	4	4	2	2	2	2	2	2
150°	4	4	4	4	4	2	2	2	0	0	0
152.5°	4	4	4	4	4	2	2	2	2	0	0
155°	4	4	4	4	4	2	2	2	2	0	2
157.5°	4	4	4	4	2	2	2	2	0	0	0
160°	4	4	4	4	2	2	2	2	0	0	0
162.5°	4	4	4	4	2	2	2	2	0	0	0
165°	4	4	4	4	2	2	2	2	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P157840

CATALOG NUMBER: VST-E10-LED-E-U-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3044	3044	3044	3044	3044	3044	3044	3044
2.5°	3044	3044	3048	3046	3046	3048	3052	3050
5°	3046	3048	3044	3046	3048	3048	3050	3048
7.5°	3042	3042	3042	3044	3046	3044	3046	3046
10°	3034	3036	3034	3038	3040	3040	3042	3042
12.5°	3028	3028	3028	3032	3034	3034	3036	3034
15°	3022	3022	3020	3024	3028	3028	3030	3030
17.5°	3020	3020	3018	3022	3026	3026	3028	3028
20°	3026	3028	3024	3028	3032	3034	3034	3034
22.5°	3050	3048	3042	3044	3046	3046	3046	3046
25°	3086	3082	3076	3074	3072	3070	3070	3070
27.5°	3148	3142	3132	3130	3128	3124	3124	3124
30°	3222	3214	3202	3198	3192	3188	3186	3184
32.5°	3328	3312	3298	3288	3282	3270	3268	3264
35°	3450	3438	3418	3412	3402	3396	3394	3384
37.5°	3618	3604	3586	3582	3580	3574	3574	3572
40°	3852	3838	3822	3806	3810	3812	3812	3804
42.5°	4138	4116	4084	4094	4088	4080	4096	4086
45°	4464	4434	4410	4400	4400	4390	4406	4406
47.5°	4826	4778	4734	4736	4720	4724	4734	4748
50°	5208	5144	5102	5082	5066	5072	5090	5094
52.5°	5604	5526	5470	5440	5420	5428	5442	5454
55°	6016	5930	5846	5814	5790	5806	5808	5824
57.5°	6446	6328	6230	6182	6158	6174	6186	6202
60°	6880	6744	6628	6572	6538	6560	6588	6596
62.5°	7384	7196	7066	6986	6970	6992	7000	7024
65°	7980	7754	7574	7476	7472	7484	7502	7508
67.5°	8660	8408	8166	8068	8030	8066	8084	8108
70°	9620	9274	8924	8706	8614	8586	8594	8620
72.5°	9728	9356	8948	8652	8490	8416	8414	8418
75°	9492	8898	8610	8270	8040	7920	7904	7902
76°	9374	8672	8256	7986	7710	7588	7570	7560
77.5°	8876	8122	7496	7332	7068	6914	6946	6920
80°	7116	6368	5778	5316	5330	5218	5172	5158
82.5°	4194	3580	2928	2546	2182	2086	1796	1730
85°	1340	950	576	418	284	238	186	170
87.5°	178	140	114	110	100	86	56	40
90°	2	2	2	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0
95°	2	2	2	2	0	0	0	0
97.5°	2	2	2	2	2	2	2	2
100°	4	2	2	2	2	2	2	2
102.5°	4	4	4	4	2	2	2	2
105°	4	4	4	4	4	4	4	4
107.5°	4	4	4	4	4	4	4	4



REPORT NUMBER: P157840

CATALOG NUMBER: VST-E10-LED-E-U-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	2	2	2	2	2	4	4	4
112.5°	2	2	2	2	2	2	2	4
115°	2	2	2	2	2	2	2	4
117.5°	2	2	2	2	2	4	4	4
120°	2	2	2	2	2	4	4	4
122.5°	2	2	2	2	4	4	4	4
125°	2	2	2	2	4	4	4	4
127.5°	2	2	2	2	4	4	4	4
130°	2	2	2	4	4	4	4	4
132.5°	2	2	2	4	4	4	4	4
135°	2	2	2	4	4	4	4	4
137.5°	2	2	2	4	4	4	4	4
140°	2	2	2	4	4	4	4	4
142.5°	2	2	2	4	4	4	4	4
145°	2	2	2	2	4	4	4	4
147.5°	2	2	2	4	4	4	4	4
150°	2	2	2	2	4	4	4	4
152.5°	2	2	2	2	4	4	4	4
155°	2	2	2	4	4	4	4	4
157.5°	2	2	2	2	4	4	4	4
160°	2	2	2	2	4	4	4	4
162.5°	2	2	2	4	4	4	4	4
165°	2	2	2	4	4	4	4	4
167.5°	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0

(END OF REPORT)