

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: P159362

Luminaire Tested: **VST-E08-LED-E-U-T2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159362
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)
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-T2-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (168) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25338.4 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

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



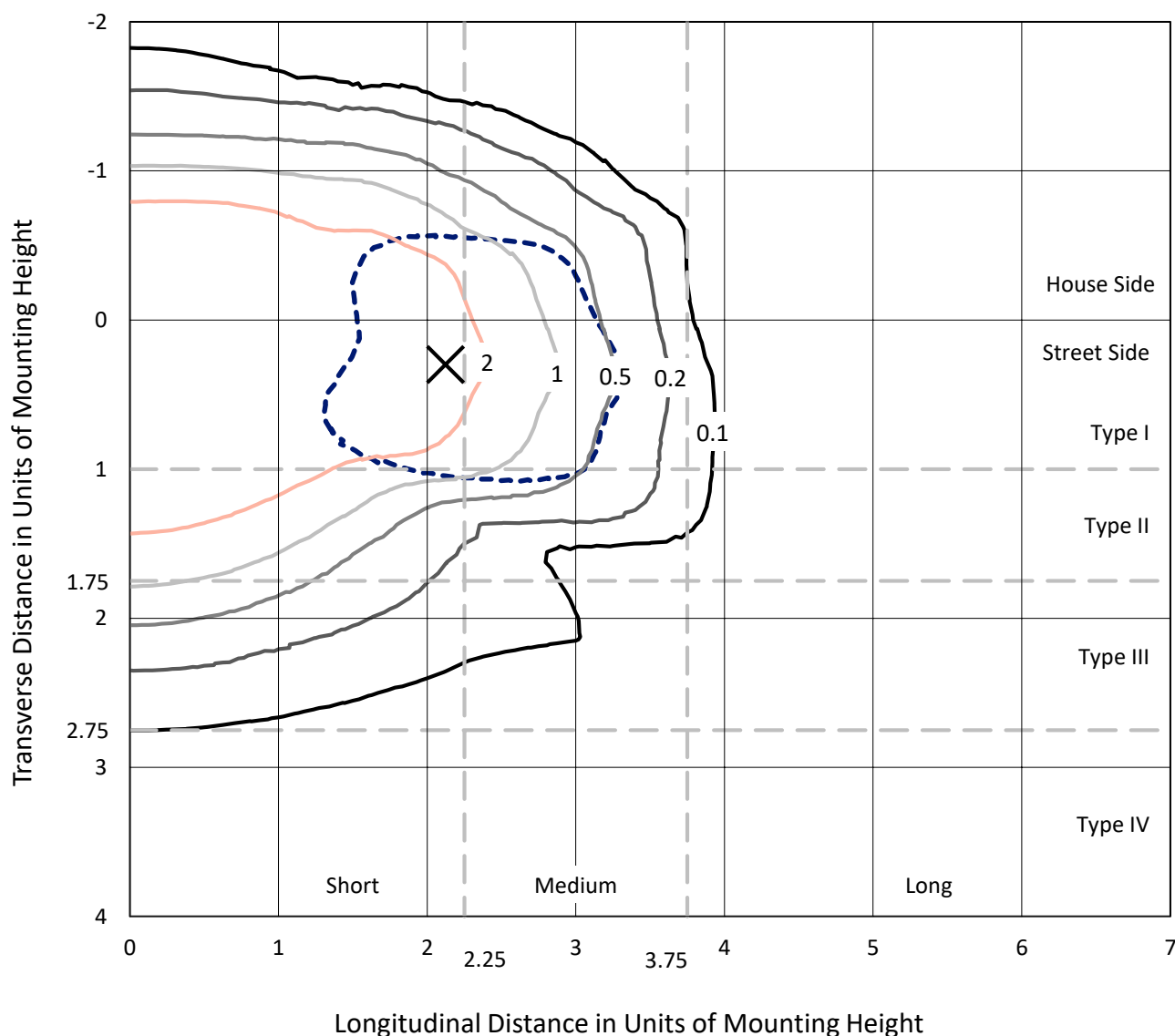
REPORT NUMBER: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

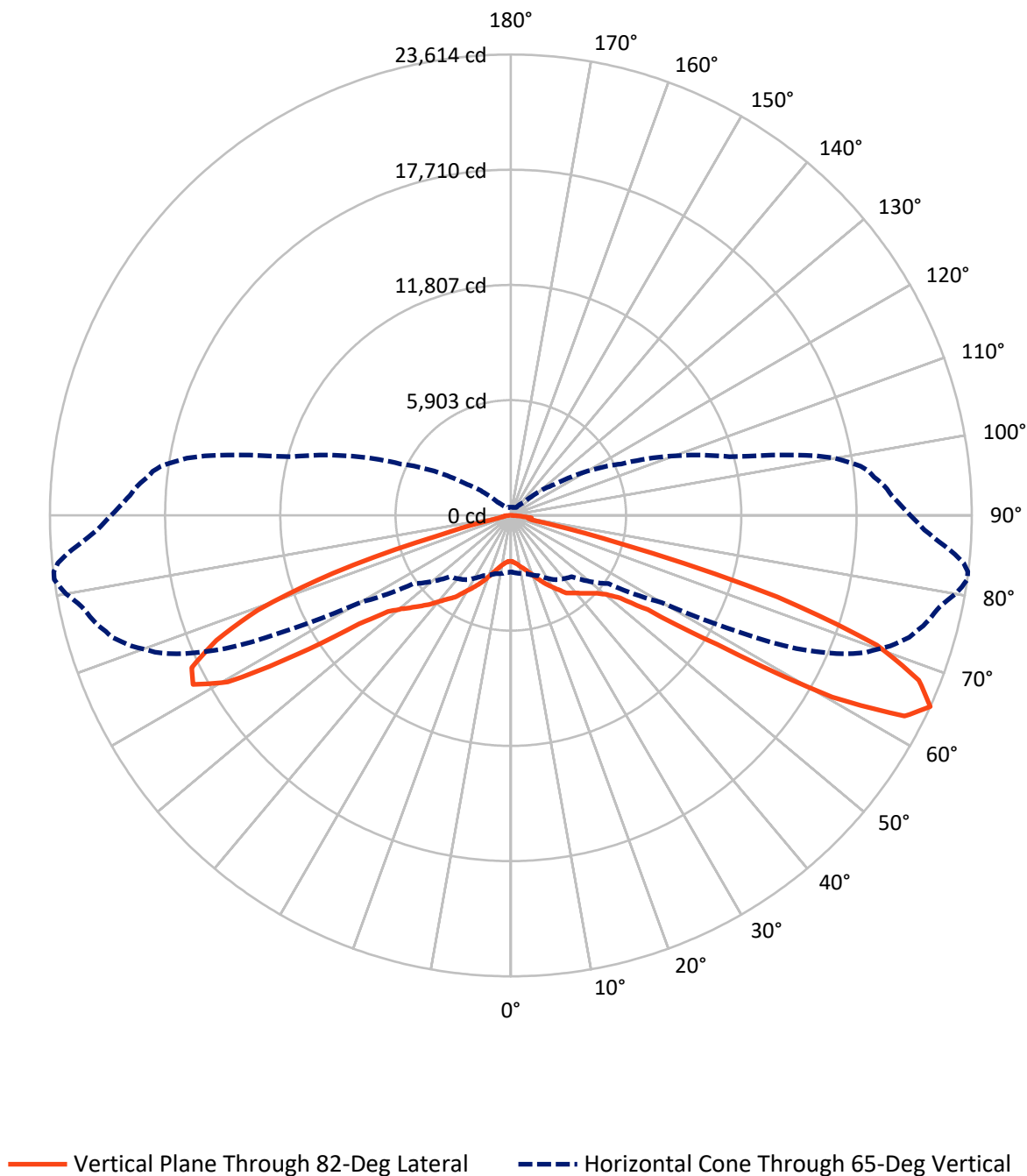


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

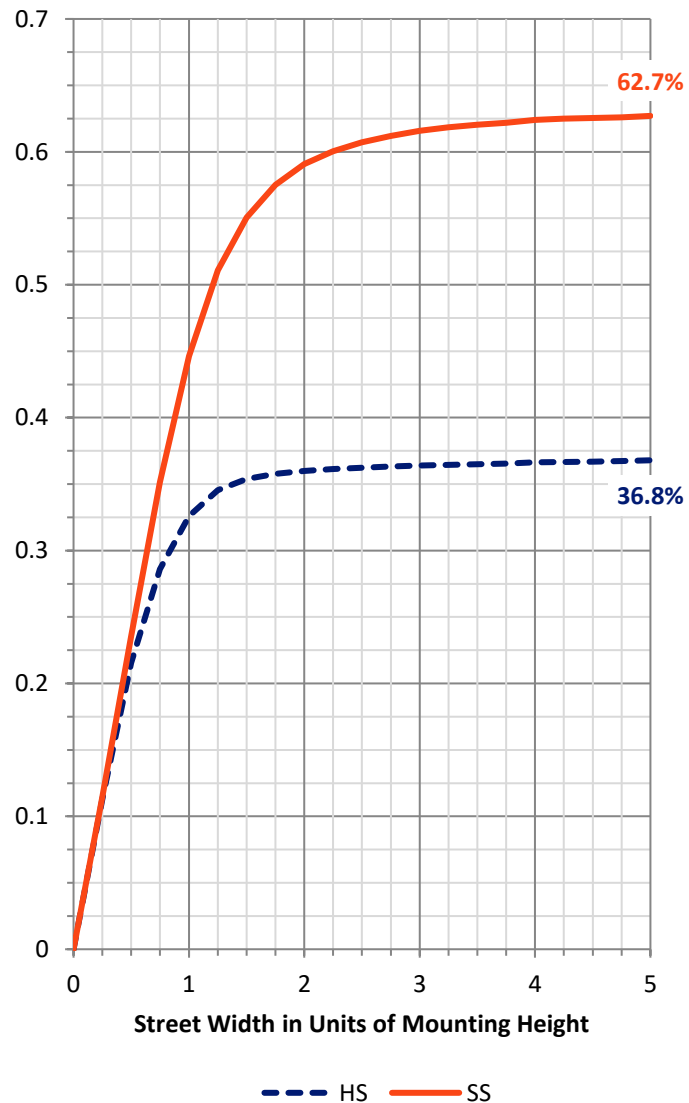
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9434.3	0.0	9434.3
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	15904.1	0.0	15904.1
	% Fixture	62.8	0.0	62.8
Total	Lumens	25338.4	0.0	25338.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	0.9
10°-20°	838.6	3.3
20°-30°	1661.7	6.6
30°-40°	2848.5	11.2
40°-50°	4279.2	16.9
50°-60°	5945.2	23.5
60°-70°	6782.6	26.8
70°-80°	2336.5	9.2
80°-90°	407.2	1.6
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°	25338.4	100.0
0°-180°	25338.4	100.0

Coefficient of Utilization



REPORT NUMBER: P159362

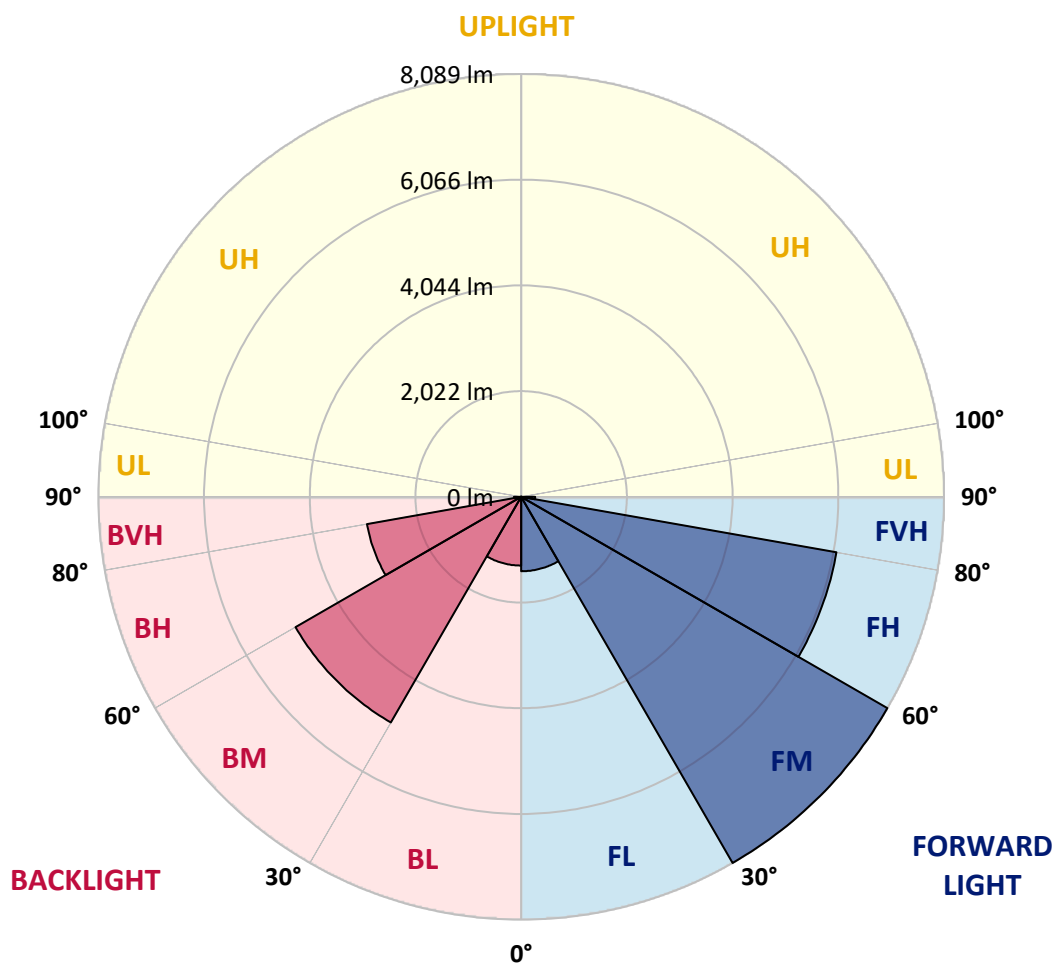
CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1423.5	5.6			
FM	(30°-60°)	8088.5	31.9			
FH	(60°-80°)	6124.0	24.2			G3/7500
FVH	(80°-90°)	268.1	1.1			G3/500
BL	(0°-30°)	1315.6	5.2	B3/2500		
BM	(30°-60°)	4984.5	19.7	B3/5000		
BH	(60°-80°)	2995.1	11.8	B4/5000		G4/5000
BVH	(80°-90°)	139.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2485.6	2487.3	2485.6	2480.7	2479.1	2464.3	2447.9	2439.7	2438.0	2431.5	2433.1
5°	2640.0	2635.0	2628.5	2620.3	2612.1	2587.4	2559.5	2544.7	2539.8	2534.9	2528.3
7.5°	2777.9	2781.2	2777.9	2766.4	2745.0	2713.8	2677.7	2654.7	2653.1	2648.2	2643.2
10°	2955.2	2963.4	2943.7	2924.0	2894.4	2846.8	2805.8	2776.2	2771.3	2764.7	2761.5
12.5°	3147.3	3148.9	3142.3	3098.0	3048.8	2983.1	2924.0	2894.4	2887.9	2879.7	2876.4
15°	3352.5	3354.1	3318.0	3275.3	3199.8	3121.0	3038.9	3006.1	2997.9	2999.5	2986.4
17.5°	3515.0	3518.3	3483.8	3429.7	3339.4	3245.8	3157.1	3130.9	3125.9	3127.6	3121.0
20°	3585.6	3590.5	3569.2	3528.2	3442.8	3360.7	3296.7	3280.3	3278.6	3275.3	3288.5
22.5°	3582.3	3584.0	3575.8	3559.4	3508.5	3460.8	3452.6	3462.5	3460.8	3464.1	3475.6
25°	3552.8	3557.7	3556.1	3562.6	3554.4	3572.5	3610.2	3644.7	3649.7	3656.2	3677.6
27.5°	3628.3	3638.2	3626.7	3633.2	3646.4	3707.1	3784.3	3836.8	3846.7	3864.7	3882.8
30°	3923.8	3910.7	3895.9	3879.5	3887.7	3925.5	4012.5	4058.5	4063.4	4076.5	4101.1
32.5°	4362.2	4347.4	4334.3	4308.0	4301.4	4285.0	4314.6	4326.1	4324.4	4337.6	4344.1
35°	4856.4	4858.0	4854.7	4874.4	4890.8	4807.1	4703.7	4675.8	4687.2	4672.5	4675.8
37.5°	5278.3	5283.2	5370.2	5478.6	5509.8	5457.2	5230.7	5119.0	5081.3	5076.3	5038.6
40°	5746.2	5746.2	5877.5	6010.5	6097.5	6163.2	5893.9	5696.9	5616.5	5593.5	5499.9
42.5°	6260.1	6233.8	6353.6	6499.8	6660.7	6810.1	6670.5	6448.9	6333.9	6292.9	6128.7
45°	6682.0	6665.6	6724.7	6861.0	7122.0	7414.2	7433.9	7320.6	7251.7	7166.3	7015.3
47.5°	6941.4	6933.2	6967.7	7115.4	7442.1	7915.0	8179.3	8236.8	8195.7	8130.0	7983.9
50°	7043.2	7031.7	7056.3	7220.5	7586.6	8210.5	8795.0	9065.8	9085.5	9100.3	9054.4
52.5°	7007.1	6992.3	7043.2	7181.1	7562.0	8313.9	9276.0	9796.4	9883.4	9957.3	10108.4
55°	6660.7	6637.7	6775.6	7035.0	7455.3	8276.2	9627.3	10499.1	10683.0	10880.0	11214.9
57.5°	6130.4	6110.7	6309.3	6665.6	7266.5	8172.7	9863.7	11387.3	11801.0	12155.7	13106.2
60°	5619.8	5603.4	5719.9	6064.7	6654.1	7668.7	9571.5	11686.1	12380.6	13145.6	14881.0
62.5°	4707.0	4662.6	4818.6	5109.2	5481.9	6343.8	8295.9	11021.2	12091.6	13216.2	15568.9
65°	2892.8	2956.8	3091.5	3413.2	4024.0	4434.4	6092.6	8916.4	10328.4	11738.6	14790.7
67.5°	1837.1	1855.2	1955.3	2178.6	2651.5	3063.5	3692.3	5595.1	6683.6	8070.9	11612.2
70°	1574.5	1585.9	1671.3	1904.5	2231.2	2738.5	2794.3	2922.3	3313.1	4196.4	6826.5
72.5°	1241.2	1260.9	1328.2	1530.1	1924.2	2469.2	3449.4	2310.0	2231.2	2305.0	3331.1
75°	738.8	761.8	817.6	927.6	1236.3	1888.0	3613.5	2687.6	2505.3	2362.5	2298.5
77.5°	390.7	374.3	412.1	476.1	635.4	1006.4	2715.5	3293.4	3165.3	2994.6	2631.8
80°	193.7	200.3	211.8	224.9	284.0	408.8	1357.7	3406.7	3776.1	3940.2	3618.5
82.5°	77.2	87.0	123.1	131.3	156.0	174.0	436.7	1888.0	2704.0	3667.7	4789.0
85°	39.4	37.8	65.7	78.8	91.9	82.1	154.3	704.3	1267.4	1975.0	3199.8
87.5°	4.9	6.6	14.8	19.7	27.9	26.3	44.3	152.7	243.0	344.8	484.3
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: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2424.9	2423.3	2423.3	2416.7	2416.7	2418.3	2413.4	2410.1	2410.1	2411.8	2405.2
5°	2523.4	2518.5	2518.5	2511.9	2503.7	2503.7	2497.1	2495.5	2492.2	2485.6	2480.7
7.5°	2638.3	2633.4	2625.2	2620.3	2617.0	2612.1	2603.8	2600.6	2594.0	2587.4	2580.9
10°	2756.5	2750.0	2746.7	2738.5	2735.2	2725.3	2720.4	2722.1	2708.9	2704.0	2705.6
12.5°	2874.7	2868.2	2856.7	2853.4	2851.8	2841.9	2837.0	2833.7	2823.8	2822.2	2817.3
15°	2979.8	2983.1	2978.2	2970.0	2963.4	2961.8	2956.8	2953.5	2947.0	2940.4	2933.8
17.5°	3116.1	3121.0	3114.4	3102.9	3102.9	3101.3	3102.9	3101.3	3089.8	3094.7	3091.5
20°	3290.1	3293.4	3277.0	3281.9	3285.2	3283.5	3288.5	3293.4	3290.1	3290.1	3295.0
22.5°	3490.4	3495.3	3485.5	3492.0	3501.9	3493.7	3508.5	3506.8	3510.1	3515.0	3516.7
25°	3695.6	3705.5	3697.3	3715.3	3708.8	3715.3	3733.4	3728.5	3736.7	3749.8	3754.7
27.5°	3900.8	3907.4	3909.1	3920.5	3932.0	3941.9	3964.9	3964.9	3971.4	3994.4	3994.4
30°	4115.9	4122.5	4129.0	4145.5	4152.0	4170.1	4193.1	4199.6	4196.4	4229.2	4239.0
32.5°	4363.8	4370.4	4381.9	4401.6	4409.8	4427.9	4427.9	4445.9	4459.0	4487.0	4488.6
35°	4693.8	4698.7	4693.8	4692.2	4703.7	4728.3	4729.9	4756.2	4767.7	4795.6	4803.8
37.5°	5023.8	5022.2	5000.8	4977.8	4979.5	4969.6	4963.1	4974.6	4979.5	4981.1	4999.2
40°	5468.7	5426.0	5393.2	5335.7	5309.5	5268.4	5243.8	5242.2	5215.9	5212.6	5217.5
42.5°	6051.6	6002.3	5925.1	5828.3	5754.4	5678.9	5623.1	5590.2	5532.8	5503.2	5478.6
45°	6865.9	6744.4	6652.4	6537.5	6394.7	6263.3	6125.4	6063.1	5953.1	5885.7	5810.2
47.5°	7860.8	7740.9	7599.7	7481.5	7294.4	7112.1	6923.3	6757.5	6565.4	6412.7	6288.0
50°	8941.1	8870.5	8768.7	8658.7	8417.3	8297.5	8059.4	7834.5	7627.7	7355.1	7117.1
52.5°	10049.3	10090.3	10067.3	10027.9	9875.2	9829.3	9624.0	9349.9	9141.4	8954.2	8540.5
55°	11415.2	11464.5	11563.0	11620.4	11602.4	11718.9	11668.1	11454.6	11370.9	11283.9	10990.0
57.5°	13505.2	13856.5	14232.5	14562.5	14639.7	15053.4	14964.7	15178.2	15329.2	15220.8	15125.6
60°	15733.1	16442.3	17081.0	17749.2	18292.6	18699.7	19238.2	19601.1	19829.3	20239.7	20272.6
62.5°	16631.1	17594.8	18405.9	19180.8	19826.0	20390.8	20876.7	21377.5	21787.9	22159.0	22426.6
65°	16138.6	17145.0	18128.4	18914.8	19535.4	20021.4	20550.0	20947.3	21351.2	21589.3	21870.0
67.5°	13416.5	14749.7	15959.6	16846.2	17695.0	18189.2	18814.7	19205.4	19633.9	19885.1	20065.7
70°	8747.3	10482.7	12136.0	13480.6	14626.5	15202.8	15958.0	16491.6	17007.1	17020.2	17320.7
72.5°	4720.1	6171.4	7555.4	8929.6	10236.4	11003.1	11748.5	12397.0	12909.2	12690.9	12989.7
75°	2628.5	3308.2	4065.0	4890.8	5687.1	6125.4	6682.0	6685.3	6949.6	6534.2	6639.3
77.5°	2528.3	2497.1	2508.6	2531.6	2571.0	2487.3	2485.6	2434.7	2355.9	2213.1	2237.7
80°	3321.3	2924.0	2638.3	2190.1	1763.3	1438.2	1347.9	1369.2	1433.3	1561.3	1723.9
82.5°	4802.2	4467.3	3987.9	3281.9	2575.9	1986.5	1631.9	1448.0	1439.8	1567.9	1814.2
85°	3497.0	3698.9	3667.7	3061.9	2525.0	2050.6	1492.4	1260.9	1044.2	993.3	1080.3
87.5°	515.5	426.9	481.0	402.2	292.2	226.6	198.7	159.3	152.7	156.0	170.7
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: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2406.8	2400.3	2393.7	2398.6	2393.7	2392.1	2387.1	2383.8	2382.2	2382.2	2382.2
5°	2480.7	2472.5	2467.6	2465.9	2461.0	2456.1	2454.4	2446.2	2444.6	2444.6	2439.7
7.5°	2580.9	2574.3	2566.1	2561.2	2557.9	2549.7	2541.5	2539.8	2538.2	2531.6	2526.7
10°	2697.4	2687.6	2677.7	2677.7	2671.2	2669.5	2661.3	2649.8	2648.2	2638.3	2635.0
12.5°	2807.4	2804.1	2792.6	2789.4	2784.4	2779.5	2774.6	2769.7	2764.7	2756.5	2759.8
15°	2938.8	2930.6	2920.7	2922.3	2920.7	2914.1	2907.6	2902.6	2899.4	2896.1	2896.1
17.5°	3096.4	3093.1	3091.5	3083.2	3076.7	3081.6	3081.6	3081.6	3073.4	3075.0	3076.7
20°	3296.7	3300.0	3296.7	3290.1	3288.5	3293.4	3281.9	3300.0	3290.1	3283.5	3286.8
22.5°	3518.3	3529.8	3516.7	3518.3	3526.5	3529.8	3518.3	3533.1	3528.2	3518.3	3526.5
25°	3759.7	3767.9	3761.3	3759.7	3764.6	3776.1	3774.4	3772.8	3784.3	3774.4	3779.4
27.5°	4007.6	4012.5	4015.8	4020.7	4024.0	4022.3	4028.9	4028.9	4035.5	4024.0	4028.9
30°	4253.8	4253.8	4260.4	4267.0	4267.0	4267.0	4280.1	4281.7	4271.9	4275.2	4263.7
32.5°	4516.5	4518.1	4524.7	4524.7	4537.8	4539.5	4554.3	4534.6	4554.3	4537.8	4541.1
35°	4825.2	4846.5	4849.8	4866.2	4879.3	4884.3	4884.3	4885.9	4904.0	4890.8	4895.8
37.5°	5005.8	5010.7	5023.8	5032.0	5032.0	5038.6	5043.5	5038.6	5043.5	5041.9	5046.8
40°	5219.2	5214.3	5229.0	5232.3	5225.7	5234.0	5232.3	5227.4	5240.5	5230.7	5237.2
42.5°	5478.6	5450.7	5449.0	5462.2	5449.0	5455.6	5454.0	5442.5	5458.9	5463.8	5458.9
45°	5756.0	5741.3	5711.7	5711.7	5698.6	5693.7	5695.3	5693.7	5695.3	5715.0	5721.6
47.5°	6207.5	6117.2	6066.3	6018.7	5979.3	5977.7	5959.6	5969.5	5982.6	6015.4	6045.0
50°	6964.4	6755.9	6627.8	6509.6	6424.2	6394.7	6360.2	6356.9	6368.4	6406.2	6457.1
52.5°	8313.9	8025.0	7752.4	7499.6	7279.6	7110.5	7026.8	6982.4	6966.0	7003.8	7053.0
55°	10783.1	10238.1	9853.9	9597.8	9051.1	8819.6	8522.4	8386.2	8253.2	8266.3	8350.0
57.5°	15002.5	14708.6	14386.8	13938.6	13603.7	13199.8	12457.7	12044.0	12062.1	12158.9	11856.9
60°	20532.0	20234.8	20101.8	19694.7	19461.5	19299.0	18905.0	18218.7	17975.7	17929.8	17374.8
62.5°	22631.8	22702.4	22807.5	22922.4	22915.8	22986.4	22641.6	22418.4	22137.6	21773.1	21224.8
65°	22083.4	22262.4	22475.8	22784.5	23135.8	23395.2	23613.6	23587.3	23324.6	22838.6	22259.1
67.5°	20226.6	20403.9	20559.9	20973.6	21549.9	22076.9	22543.1	22860.0	22684.3	22282.1	21605.7
70°	17435.6	17563.6	17662.1	18021.7	18653.8	19297.3	19906.4	20438.4	20384.2	19896.6	19356.5
72.5°	12633.4	12943.7	13111.2	13086.5	13477.3	14198.0	14283.4	14738.2	14864.6	14339.2	13478.9
75°	6155.0	6159.9	5966.2	5902.2	5921.9	6046.6	5808.6	5823.4	5741.3	5368.6	5061.6
77.5°	2150.7	2091.6	1950.4	1783.0	1543.3	1318.3	1090.1	991.6	958.8	861.9	794.6
80°	1853.6	1940.6	1912.7	1774.8	1521.9	1213.3	906.3	671.5	573.0	538.5	505.7
82.5°	2104.7	2439.7	2653.1	2641.6	2295.2	1723.9	1075.4	617.3	440.0	385.8	354.6
85°	1173.9	1262.5	1287.1	1172.2	973.6	664.9	371.0	261.0	221.6	201.9	182.2
87.5°	187.2	170.7	167.5	146.1	137.9	126.4	111.6	105.1	96.9	91.9	91.9
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: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2380.6	2378.9	2374.0	2369.1	2365.8	2364.1	2362.5	2359.2	2357.6	2355.9	2352.7
5°	2436.4	2433.1	2424.9	2416.7	2413.4	2408.5	2403.5	2400.3	2397.0	2395.3	2388.8
7.5°	2523.4	2520.1	2510.3	2503.7	2502.1	2488.9	2487.3	2482.4	2474.1	2472.5	2462.7
10°	2628.5	2626.8	2618.6	2613.7	2610.4	2603.8	2594.0	2585.8	2577.6	2577.6	2571.0
12.5°	2750.0	2743.4	2748.3	2736.8	2733.5	2727.0	2722.1	2720.4	2710.6	2702.4	2700.7
15°	2892.8	2884.6	2884.6	2881.3	2878.0	2871.5	2869.8	2871.5	2861.6	2864.9	2855.0
17.5°	3070.1	3073.4	3071.7	3071.7	3063.5	3063.5	3050.4	3066.8	3055.3	3063.5	3060.3
20°	3291.7	3293.4	3290.1	3295.0	3298.3	3296.7	3295.0	3293.4	3298.3	3304.9	3300.0
22.5°	3528.2	3528.2	3526.5	3544.6	3524.9	3539.7	3544.6	3534.7	3561.0	3557.7	3562.6
25°	3784.3	3784.3	3797.4	3812.2	3815.5	3804.0	3810.5	3802.3	3818.8	3831.9	3835.2
27.5°	4022.3	4043.7	4053.5	4043.7	4051.9	4069.9	4068.3	4068.3	4079.8	4076.5	4107.7
30°	4267.0	4280.1	4293.2	4286.7	4289.9	4312.9	4314.6	4316.2	4331.0	4352.3	4375.3
32.5°	4546.1	4559.2	4552.6	4574.0	4572.3	4600.2	4605.2	4610.1	4656.1	4647.8	4695.5
35°	4889.2	4902.3	4895.8	4918.7	4915.5	4925.3	4943.4	4963.1	4971.3	5018.9	5056.6
37.5°	5050.1	5050.1	5064.9	5091.1	5101.0	5117.4	5145.3	5169.9	5211.0	5261.9	5321.0
40°	5243.8	5248.7	5268.4	5296.3	5314.4	5352.2	5403.1	5437.5	5499.9	5555.7	5624.7
42.5°	5478.6	5499.9	5522.9	5560.7	5600.1	5659.2	5731.4	5775.7	5857.8	5930.1	6015.4
45°	5752.8	5774.1	5828.3	5897.2	5954.7	6020.4	6079.5	6184.5	6258.4	6333.9	6407.8
47.5°	6084.4	6146.8	6191.1	6273.2	6343.8	6430.8	6504.7	6603.2	6683.6	6775.6	6838.0
50°	6509.6	6586.8	6644.2	6751.0	6819.9	6916.8	7010.4	7084.2	7166.3	7256.6	7307.5
52.5°	7120.4	7199.2	7271.4	7404.4	7489.7	7555.4	7680.2	7772.1	7847.7	7913.3	7969.1
55°	8443.6	8420.6	8620.9	8878.7	8908.2	9146.3	9190.6	9267.8	9407.3	9427.0	9583.0
57.5°	12224.6	12106.4	12397.0	12774.6	12708.9	12589.1	13089.8	13121.0	13050.4	13239.2	13025.8
60°	17456.9	17250.1	17328.9	17432.3	17282.9	17212.3	17236.9	17307.5	17238.6	17163.1	16956.2
62.5°	20950.6	20632.1	20403.9	20211.8	19968.8	19793.2	19596.2	19353.2	19287.5	19011.7	18780.2
65°	21696.0	21200.2	20839.0	20476.1	20141.2	19830.9	19533.8	19325.3	19049.4	18722.7	18481.4
67.5°	20876.7	20262.7	19734.1	19207.1	18827.8	18371.4	18148.1	17808.3	17468.4	17094.1	16872.5
70°	18496.2	17855.9	17191.0	16675.4	16159.9	15595.2	15485.2	15082.9	14887.6	14377.0	14288.3
72.5°	12766.4	12339.5	12042.4	11405.4	11091.8	10802.8	10710.9	10338.2	10377.6	9817.8	10021.4
75°	4539.5	4478.7	4391.7	4032.2	3968.2	3856.5	3827.0	3800.7	4066.7	3697.3	3964.9
77.5°	779.8	774.9	730.6	709.2	750.3	724.0	730.6	717.5	794.6	806.1	788.0
80°	484.3	471.2	456.4	446.6	448.2	438.4	440.0	443.3	448.2	446.6	451.5
82.5°	331.6	320.1	313.6	307.0	316.9	320.1	328.4	336.6	349.7	357.9	367.8
85°	180.6	165.8	165.8	164.2	177.3	187.2	200.3	216.7	239.7	259.4	280.7
87.5°	91.9	88.7	90.3	93.6	105.1	113.3	129.7	144.5	164.2	185.5	205.2
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: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2351.0	2351.0	2349.4	2349.4	2347.7	2346.1	2344.4	2339.5	2321.5	2305.0	2293.6
5°	2387.1	2382.2	2380.6	2375.6	2374.0	2370.7	2365.8	2360.9	2328.0	2298.5	2277.1
7.5°	2461.0	2454.4	2451.2	2446.2	2441.3	2434.7	2428.2	2423.3	2383.8	2349.4	2323.1
10°	2557.9	2554.6	2553.0	2546.4	2546.4	2536.5	2534.9	2523.4	2480.7	2449.5	2426.5
12.5°	2692.5	2685.9	2684.3	2676.1	2679.4	2676.1	2672.8	2666.2	2635.0	2598.9	2567.7
15°	2860.0	2860.0	2851.8	2845.2	2846.8	2843.5	2850.1	2841.9	2822.2	2789.4	2738.5
17.5°	3061.9	3058.6	3061.9	3057.0	3060.3	3063.5	3055.3	3057.0	3047.1	3006.1	2930.6
20°	3296.7	3291.7	3311.4	3303.2	3321.3	3304.9	3308.2	3313.1	3313.1	3258.9	3157.1
22.5°	3565.9	3562.6	3562.6	3579.1	3585.6	3587.3	3593.8	3598.8	3611.9	3542.9	3380.4
25°	3835.2	3846.7	3848.3	3869.6	3879.5	3879.5	3884.4	3902.5	3941.9	3846.7	3636.5
27.5°	4109.3	4137.3	4143.8	4158.6	4173.4	4188.2	4199.6	4212.8	4276.8	4173.4	3899.2
30°	4383.5	4414.7	4437.7	4454.1	4472.2	4508.3	4514.9	4541.1	4647.8	4521.4	4148.7
32.5°	4705.3	4749.6	4779.2	4800.5	4828.4	4862.9	4882.6	4915.5	5018.9	4812.0	4331.0
35°	5089.5	5115.8	5158.4	5194.6	5211.0	5270.1	5301.3	5309.5	5388.3	5063.2	4465.6
37.5°	5355.4	5399.8	5473.7	5524.6	5554.1	5586.9	5639.5	5674.0	5749.5	5291.4	4532.9
40°	5693.7	5761.0	5820.1	5895.6	5943.2	5967.8	6020.4	6048.3	6058.1	5486.8	4511.6
42.5°	6105.7	6166.5	6245.3	6306.0	6342.2	6370.1	6412.7	6424.2	6296.2	5578.7	4396.7
45°	6493.2	6586.8	6654.1	6698.4	6724.7	6739.5	6765.7	6767.4	6493.2	5532.8	4199.6
47.5°	6910.2	6977.5	7039.9	7071.1	7067.8	7071.1	7061.2	7054.7	6591.7	5373.5	3946.8
50°	7371.5	7415.9	7442.1	7456.9	7465.1	7433.9	7389.6	7360.0	6599.9	5146.9	3690.7
52.5°	7990.5	8046.3	8041.4	8039.7	7974.1	7944.5	7826.3	7765.6	6552.3	4881.0	3401.7
55°	9558.4	9504.2	9397.5	9450.0	9182.4	9042.9	8859.0	8688.2	6614.7	4628.1	3066.8
57.5°	13111.2	13132.5	12828.8	12666.2	12214.8	11650.0	11195.2	10753.6	7176.2	4473.8	2630.1
60°	16818.3	16539.2	16153.4	15565.6	14984.4	14145.5	13336.1	12571.0	7736.0	4312.9	2113.0
62.5°	18437.1	18039.8	17456.9	16696.8	15784.0	14757.9	13749.8	12817.3	7465.1	3792.5	1536.7
65°	18108.7	17501.3	16857.7	15967.8	14858.0	13733.4	12556.2	11604.0	6245.3	2828.8	947.3
67.5°	16391.4	15875.9	15196.2	14140.6	12953.6	11783.0	10704.3	9637.2	4639.6	1763.3	530.3
70°	13835.2	13331.2	12641.6	11561.3	10376.0	9256.3	8113.6	7243.5	2956.8	850.4	382.5
72.5°	9597.8	9189.0	8701.4	7931.4	6892.1	5874.2	5101.0	4432.8	1638.5	451.5	349.7
75°	3897.6	3899.2	3810.5	3485.5	2945.3	2539.8	2165.5	1837.1	684.6	384.2	344.8
77.5°	883.3	898.0	981.8	930.9	838.9	784.8	702.7	620.6	417.0	395.7	348.1
80°	446.6	448.2	443.3	444.9	440.0	441.6	435.1	430.1	390.7	407.2	348.1
82.5°	372.7	380.9	379.2	379.2	380.9	380.9	380.9	379.2	405.5	428.5	336.6
85°	295.5	311.9	325.1	338.2	353.0	362.8	367.8	372.7	394.0	421.9	305.4
87.5°	223.3	243.0	259.4	272.5	295.5	295.5	311.9	323.4	323.4	330.0	160.9
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: P159362

CATALOG NUMBER: VST-E08-LED-E-U-T2-7060

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2277.1	2270.6	2264.0	2260.7	2254.1
5°	2260.7	2247.6	2239.4	2239.4	2232.8
7.5°	2308.3	2303.4	2291.9	2285.3	2291.9
10°	2410.1	2401.9	2388.8	2378.9	2383.8
12.5°	2546.4	2513.5	2487.3	2475.8	2467.6
15°	2687.6	2621.9	2569.4	2539.8	2531.6
17.5°	2838.6	2723.7	2644.9	2600.6	2592.4
20°	2992.9	2850.1	2738.5	2681.0	2679.4
22.5°	3178.5	2988.0	2845.2	2769.7	2764.7
25°	3373.8	3111.2	2922.3	2825.5	2815.6
27.5°	3542.9	3209.7	2970.0	2855.0	2845.2
30°	3684.1	3283.5	3009.4	2876.4	2863.2
32.5°	3785.9	3326.2	3025.8	2882.9	2868.2
35°	3818.8	3309.8	2979.8	2823.8	2807.4
37.5°	3774.4	3203.1	2851.8	2679.4	2659.7
40°	3641.4	3015.9	2643.2	2465.9	2441.3
42.5°	3437.9	2786.1	2392.1	2223.0	2191.8
45°	3186.7	2526.7	2142.5	1953.7	1938.9
47.5°	2924.0	2254.1	1861.8	1691.0	1673.0
50°	2640.0	1938.9	1587.6	1402.1	1402.1
52.5°	2301.8	1631.9	1269.1	1129.5	1118.0
55°	1912.7	1285.5	1011.3	904.6	889.8
57.5°	1494.0	988.3	807.8	745.4	728.9
60°	1098.3	742.1	650.1	615.7	609.1
62.5°	745.4	564.8	523.7	508.9	507.3
65°	504.0	440.0	428.5	423.6	425.2
67.5°	387.5	366.1	361.2	359.5	359.5
70°	336.6	323.4	318.5	320.1	318.5
72.5°	316.9	298.8	300.4	303.7	302.1
75°	310.3	287.3	293.9	295.5	289.0
77.5°	305.4	274.2	290.6	295.5	277.5
80°	295.5	262.7	302.1	303.7	272.5
82.5°	270.9	233.1	302.1	279.1	246.3
85°	229.8	177.3	341.5	243.0	182.2
87.5°	146.1	105.1	231.5	165.8	110.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)