

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: P159379

Luminaire Tested: **VST-E10-LED-E-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159379
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-E10-LED-E-U-T2-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (210) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28192.5 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

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



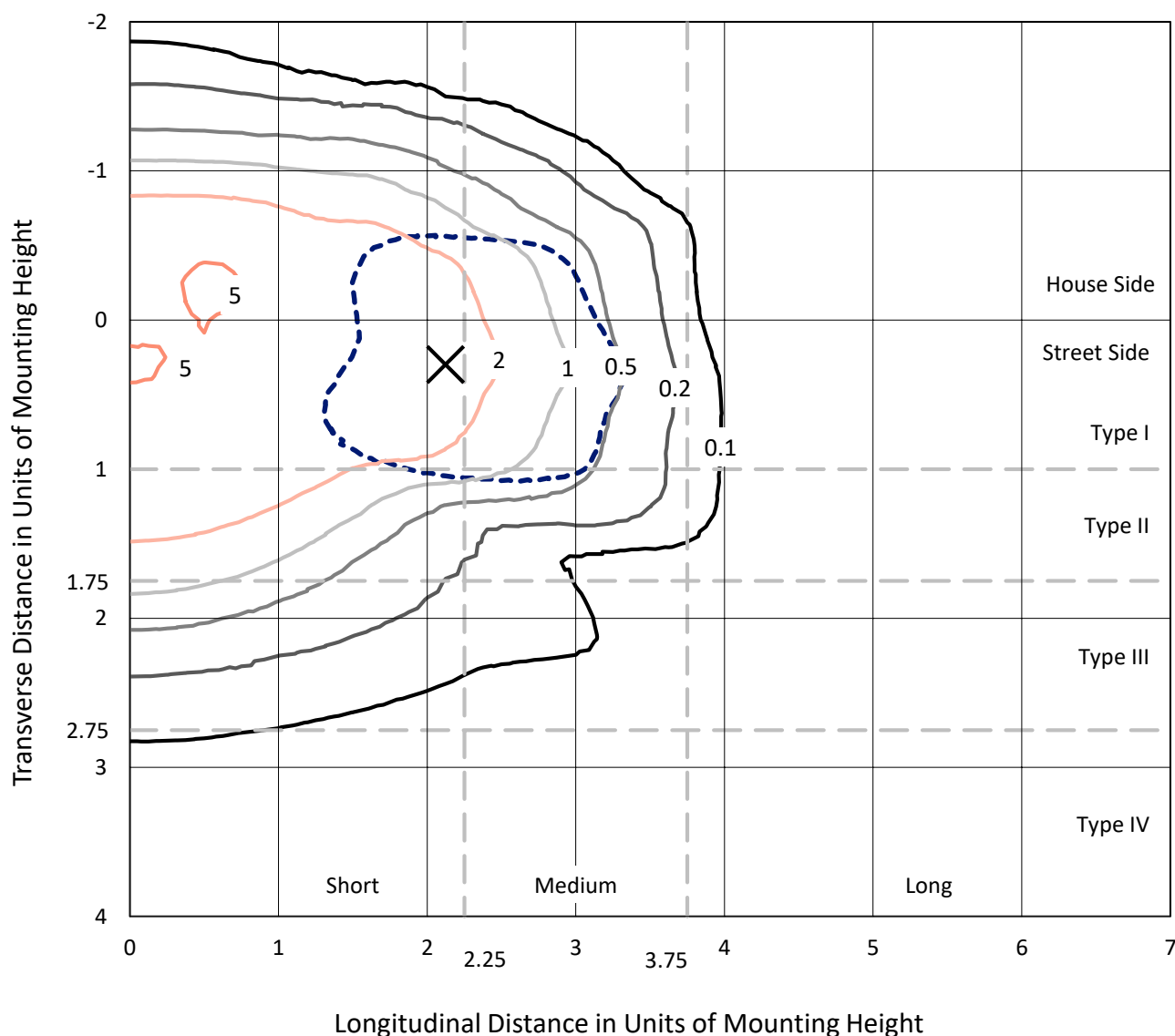
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

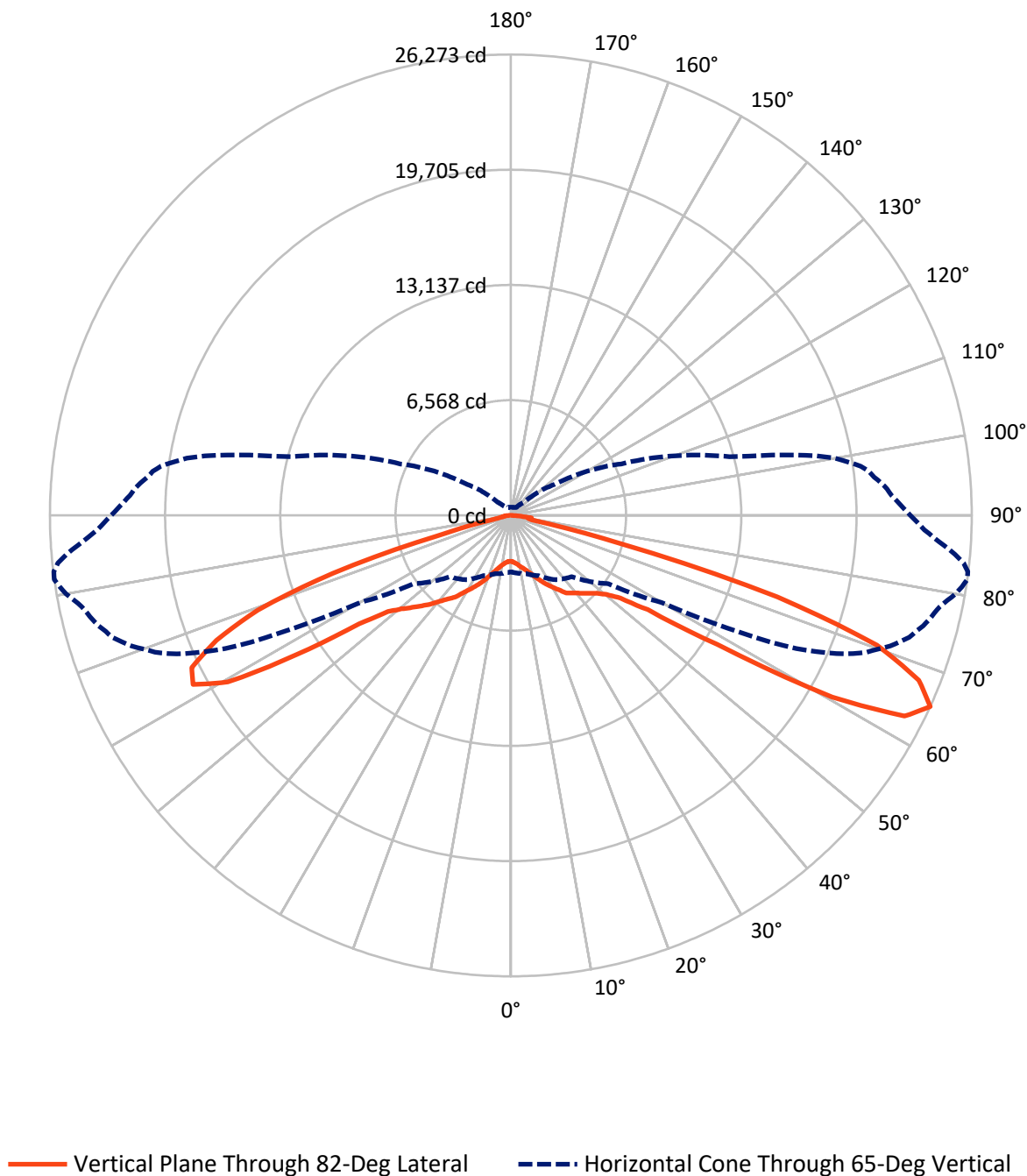


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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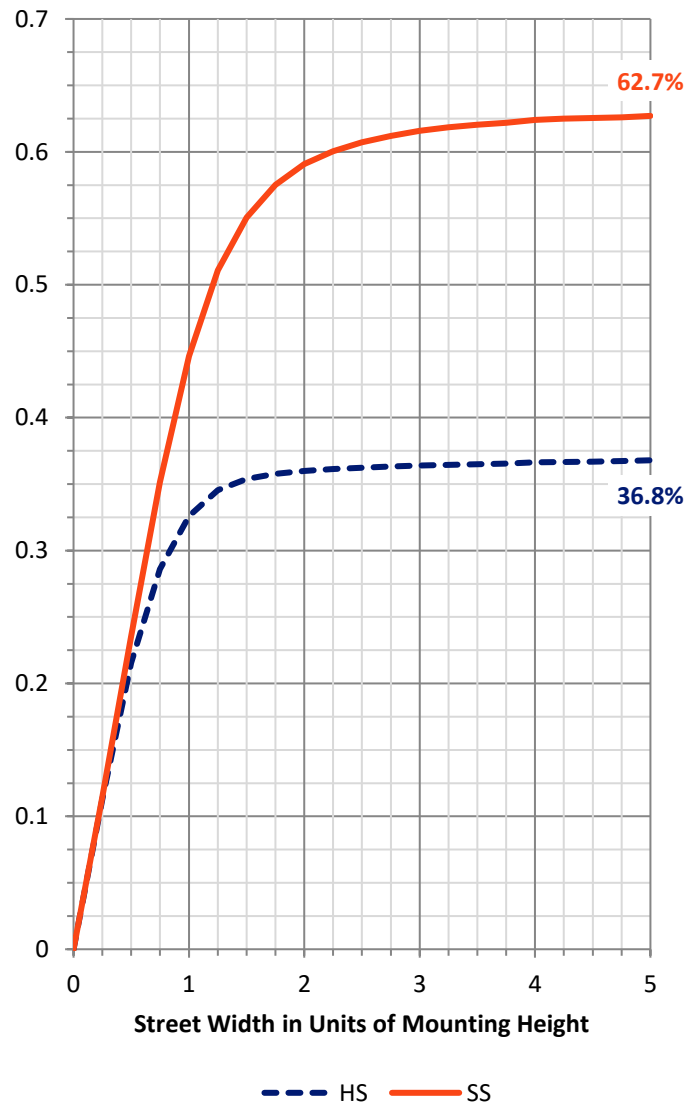
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10497.0	0.0	10497.0
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	17695.5	0.0	17695.5
	% Fixture	62.8	0.0	62.8
Total	Lumens	28192.5	0.0	28192.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	0.9
10°-20°	933.1	3.3
20°-30°	1848.9	6.6
30°-40°	3169.4	11.2
40°-50°	4761.2	16.9
50°-60°	6614.9	23.5
60°-70°	7546.6	26.8
70°-80°	2599.7	9.2
80°-90°	453.1	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°	28192.5	100.0
0°-180°	28192.5	100.0

Coefficient of Utilization



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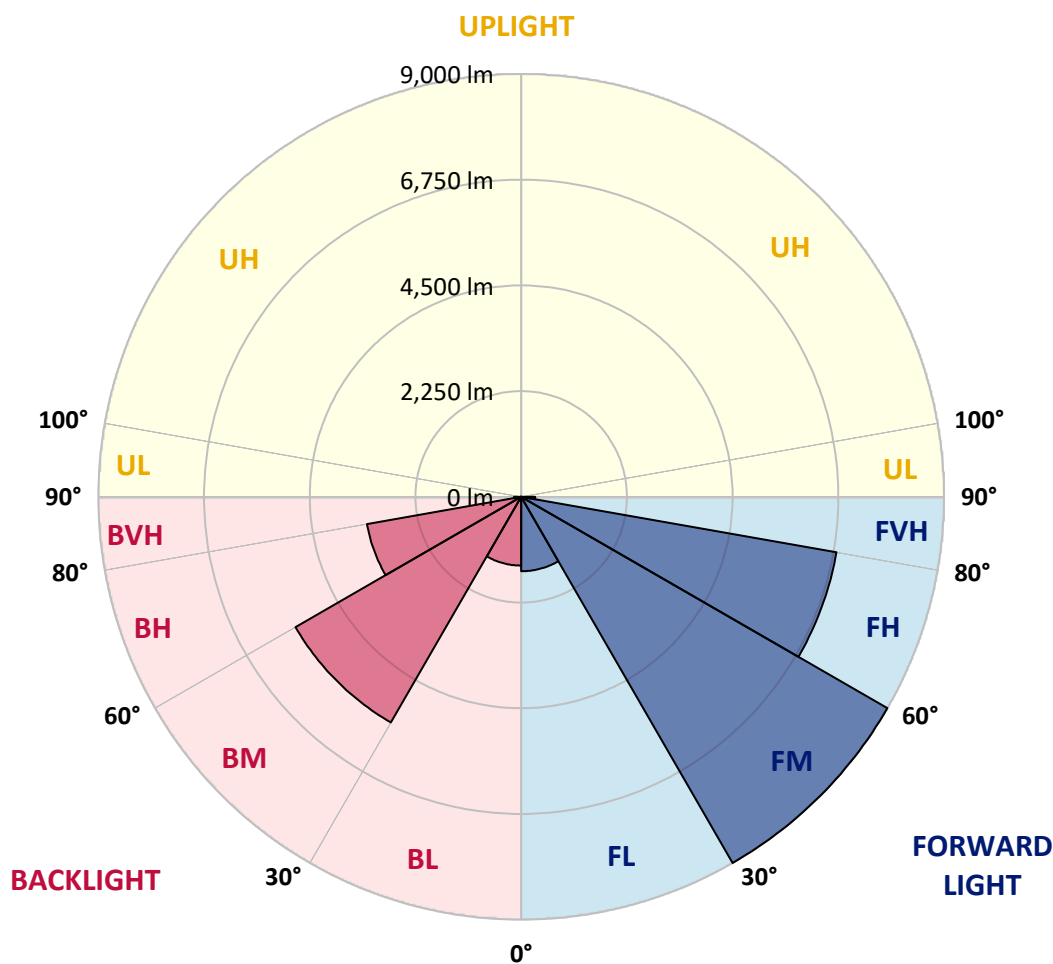
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1583.8	5.6			
FM	(30°-60°)	8999.6	31.9			
FH	(60°-80°)	6813.8	24.2			G3/7500
FVH	(80°-90°)	298.3	1.1			G3/500
BL	(0°-30°)	1463.7	5.2	B3/2500		
BM	(30°-60°)	5545.9	19.7	B4/8500		
BH	(60°-80°)	3332.5	11.8	B4/5000		G4/5000
BVH	(80°-90°)	154.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1
2.5°	2765.6	2767.5	2765.6	2760.1	2758.3	2741.9	2723.6	2714.5	2712.7	2705.3	2707.2
5°	2937.3	2931.9	2924.5	2915.4	2906.3	2878.9	2847.8	2831.4	2825.9	2820.4	2813.1
7.5°	3090.8	3094.4	3090.8	3078.0	3054.2	3019.5	2979.3	2953.8	2951.9	2946.5	2941.0
10°	3288.1	3297.2	3275.3	3253.4	3220.5	3167.5	3121.8	3089.0	3083.5	3076.2	3072.5
12.5°	3501.8	3503.6	3496.3	3447.0	3392.2	3319.1	3253.4	3220.5	3213.2	3204.0	3200.4
15°	3730.1	3731.9	3691.8	3644.3	3560.2	3472.6	3381.2	3344.7	3335.6	3337.4	3322.8
17.5°	3911.0	3914.6	3876.3	3816.0	3715.5	3611.4	3512.7	3483.5	3478.0	3479.9	3472.6
20°	3989.5	3995.0	3971.2	3925.6	3830.6	3739.3	3668.0	3649.7	3647.9	3644.3	3658.9
22.5°	3985.9	3987.7	3978.6	3960.3	3903.7	3850.7	3841.6	3852.5	3850.7	3854.3	3867.1
25°	3953.0	3958.5	3956.6	3963.9	3954.8	3974.9	4016.9	4055.3	4060.8	4068.1	4091.8
27.5°	4037.0	4048.0	4035.2	4042.5	4057.1	4124.7	4210.5	4269.0	4280.0	4300.1	4320.1
30°	4365.8	4351.2	4334.8	4316.5	4325.6	4367.6	4464.5	4515.6	4521.1	4535.7	4563.1
32.5°	4853.5	4837.1	4822.5	4793.3	4786.0	4767.7	4800.6	4813.4	4811.5	4826.1	4833.4
35°	5403.4	5405.2	5401.6	5423.5	5441.7	5348.6	5233.5	5202.4	5215.2	5198.8	5202.4
37.5°	5872.8	5878.3	5975.1	6095.7	6130.4	6072.0	5819.9	5695.7	5653.6	5648.2	5606.1
40°	6393.5	6393.5	6539.6	6687.6	6784.4	6857.4	6557.9	6338.7	6249.1	6223.6	6119.4
42.5°	6965.2	6936.0	7069.3	7231.9	7410.9	7577.2	7421.9	7175.3	7047.4	7001.7	6819.1
45°	7434.7	7416.4	7482.2	7633.8	7924.2	8249.4	8271.3	8145.3	8068.5	7973.5	7805.5
47.5°	7723.3	7714.2	7752.5	7916.9	8280.4	8806.5	9100.6	9164.6	9118.9	9045.8	8883.2
50°	7836.5	7823.8	7851.2	8033.8	8441.2	9135.3	9785.6	10087.0	10109.0	10125.4	10074.3
52.5°	7796.4	7779.9	7836.5	7990.0	8413.8	9250.4	10320.9	10899.9	10996.7	11078.9	11247.0
55°	7410.9	7385.4	7538.8	7827.4	8295.0	9208.4	10711.8	11681.8	11886.3	12105.5	12478.2
57.5°	6820.9	6799.0	7020.0	7416.4	8085.0	9093.3	10974.8	12670.0	13130.3	13524.9	14582.6
60°	6252.8	6234.5	6364.2	6747.8	7403.6	8532.5	10649.7	13002.5	13775.1	14626.4	16557.2
62.5°	5237.2	5187.8	5361.4	5684.7	6099.4	7058.4	9230.3	12262.6	13453.7	14704.9	17322.6
65°	3218.6	3289.9	3439.7	3797.7	4477.2	4933.9	6778.9	9920.8	11491.8	13060.9	16456.7
67.5°	2044.1	2064.2	2175.6	2424.0	2950.1	3408.6	4108.2	6225.4	7436.5	8980.1	12920.3
70°	1751.8	1764.6	1859.6	2119.0	2482.5	3046.9	3109.0	3251.5	3686.3	4669.0	7595.4
72.5°	1381.0	1402.9	1477.8	1702.5	2140.9	2747.4	3837.9	2570.2	2482.5	2564.7	3706.4
75°	822.0	847.6	909.7	1032.1	1375.5	2100.7	4020.6	2990.3	2787.5	2628.6	2557.4
77.5°	434.8	416.5	458.5	529.7	706.9	1119.8	3021.4	3664.4	3521.9	3331.9	2928.2
80°	215.6	222.9	235.6	250.3	316.0	454.8	1510.7	3790.4	4201.4	4384.1	4026.0
82.5°	85.9	96.8	137.0	146.1	173.5	193.6	485.9	2100.7	3008.6	4080.8	5328.5
85°	43.8	42.0	73.1	87.7	102.3	91.3	171.7	783.7	1410.2	2197.5	3560.2
87.5°	5.5	7.3	16.4	21.9	31.1	29.2	49.3	169.9	270.4	383.6	538.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1
2.5°	2698.0	2696.2	2696.2	2688.9	2688.9	2690.7	2685.2	2681.6	2681.6	2683.4	2676.1
5°	2807.6	2802.2	2802.2	2794.9	2785.7	2785.7	2778.4	2776.6	2772.9	2765.6	2760.1
7.5°	2935.5	2930.0	2920.9	2915.4	2911.8	2906.3	2897.1	2893.5	2886.2	2878.9	2871.6
10°	3067.0	3059.7	3056.1	3046.9	3043.3	3032.3	3026.8	3028.7	3014.1	3008.6	3010.4
12.5°	3198.6	3191.2	3178.5	3174.8	3173.0	3162.0	3156.5	3152.9	3141.9	3140.1	3134.6
15°	3315.5	3319.1	3313.6	3304.5	3297.2	3295.4	3289.9	3286.2	3278.9	3271.6	3264.3
17.5°	3467.1	3472.6	3465.3	3452.5	3452.5	3450.6	3452.5	3450.6	3437.9	3443.3	3439.7
20°	3660.7	3664.4	3646.1	3651.6	3655.2	3653.4	3658.9	3664.4	3660.7	3660.7	3666.2
22.5°	3883.6	3889.0	3878.1	3885.4	3896.4	3887.2	3903.7	3901.8	3905.5	3911.0	3912.8
25°	4111.9	4122.9	4113.7	4133.8	4126.5	4133.8	4153.9	4148.4	4157.6	4172.2	4177.7
27.5°	4340.2	4347.5	4349.4	4362.2	4374.9	4385.9	4411.5	4411.5	4418.8	4444.4	4444.4
30°	4579.5	4586.8	4594.2	4612.4	4619.7	4639.8	4665.4	4672.7	4669.0	4705.6	4716.5
32.5°	4855.4	4862.7	4875.5	4897.4	4906.5	4926.6	4926.6	4946.7	4961.3	4992.4	4994.2
35°	5222.5	5228.0	5222.5	5220.7	5233.5	5260.9	5262.7	5292.0	5304.7	5335.8	5344.9
37.5°	5589.7	5587.9	5564.1	5538.6	5540.4	5529.4	5522.1	5534.9	5540.4	5542.2	5562.3
40°	6084.7	6037.2	6000.7	5936.8	5907.6	5861.9	5834.5	5832.7	5803.4	5799.8	5805.3
42.5°	6733.2	6678.4	6592.6	6484.8	6402.6	6318.6	6256.4	6219.9	6156.0	6123.1	6095.7
45°	7639.3	7504.1	7401.8	7273.9	7115.0	6968.9	6815.4	6746.0	6623.6	6548.7	6464.7
47.5°	8746.2	8612.9	8455.8	8324.3	8116.0	7913.3	7703.2	7518.7	7305.0	7135.1	6996.3
50°	9948.2	9869.7	9756.4	9634.0	9365.5	9232.1	8967.3	8717.0	8486.9	8183.6	7918.7
52.5°	11181.2	11226.9	11201.3	11157.5	10987.6	10936.5	10708.1	10403.1	10171.1	9962.8	9502.5
55°	12701.0	12755.9	12865.5	12929.4	12909.3	13039.0	12982.4	12744.9	12651.7	12554.9	12227.9
57.5°	15026.4	15417.4	15835.7	16202.8	16288.7	16749.0	16650.4	16887.8	17055.9	16935.3	16829.4
60°	17505.3	18294.4	19005.0	19748.5	20353.1	20806.1	21405.3	21809.0	22062.9	22519.6	22556.1
62.5°	18504.5	19576.8	20479.1	21341.3	22059.2	22687.6	23228.3	23785.5	24242.1	24655.0	24952.7
65°	17956.5	19076.2	20170.4	21045.4	21735.9	22276.6	22864.8	23306.9	23756.2	24021.1	24333.5
67.5°	14927.8	16411.1	17757.4	18743.8	19688.2	20238.0	20934.0	21368.7	21845.5	22125.0	22325.9
70°	9732.7	11663.5	13503.0	14999.0	16274.1	16915.2	17755.5	18349.2	18922.8	18937.4	19271.7
72.5°	5251.8	6866.6	8406.5	9935.4	11389.5	12242.5	13071.9	13793.4	14363.3	14120.4	14452.9
75°	2924.5	3680.8	4522.9	5441.7	6327.7	6815.4	7434.7	7438.3	7732.4	7270.3	7387.2
77.5°	2813.1	2778.4	2791.2	2816.8	2860.6	2767.5	2765.6	2709.0	2621.3	2462.4	2489.8
80°	3695.4	3253.4	2935.5	2436.8	1961.9	1600.2	1499.7	1523.5	1594.7	1737.2	1918.0
82.5°	5343.1	4970.5	4437.1	3651.6	2866.1	2210.3	1815.7	1611.2	1602.0	1744.5	2018.5
85°	3890.9	4115.6	4080.8	3406.8	2809.5	2281.5	1660.5	1402.9	1161.8	1105.2	1202.0
87.5°	573.6	474.9	535.2	447.5	325.2	252.1	221.0	177.2	169.9	173.5	190.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1
2.5°	2677.9	2670.6	2663.3	2668.8	2663.3	2661.5	2656.0	2652.4	2650.5	2650.5	2650.5
5°	2760.1	2751.0	2745.5	2743.7	2738.2	2732.7	2730.9	2721.8	2720.0	2720.0	2714.5
7.5°	2871.6	2864.3	2855.1	2849.7	2846.0	2836.9	2827.7	2825.9	2824.1	2816.8	2811.3
10°	3001.3	2990.3	2979.3	2979.3	2972.0	2970.2	2961.1	2948.3	2946.5	2935.5	2931.9
12.5°	3123.7	3120.0	3107.2	3103.6	3098.1	3092.6	3087.1	3081.6	3076.2	3067.0	3070.7
15°	3269.8	3260.7	3249.7	3251.5	3249.7	3242.4	3235.1	3229.6	3226.0	3222.3	3222.3
17.5°	3445.2	3441.5	3439.7	3430.5	3423.2	3428.7	3428.7	3428.7	3419.6	3421.4	3423.2
20°	3668.0	3671.7	3668.0	3660.7	3658.9	3664.4	3651.6	3671.7	3660.7	3653.4	3657.1
22.5°	3914.6	3927.4	3912.8	3914.6	3923.8	3927.4	3914.6	3931.1	3925.6	3914.6	3923.8
25°	4183.1	4192.3	4185.0	4183.1	4188.6	4201.4	4199.6	4197.8	4210.5	4199.6	4205.1
27.5°	4459.0	4464.5	4468.1	4473.6	4477.2	4475.4	4482.7	4482.7	4490.0	4477.2	4482.7
30°	4733.0	4733.0	4740.3	4747.6	4747.6	4747.6	4762.2	4764.0	4753.1	4756.7	4743.9
32.5°	5025.3	5027.1	5034.4	5034.4	5049.0	5050.8	5067.3	5045.3	5067.3	5049.0	5052.7
35°	5368.7	5392.4	5396.1	5414.3	5429.0	5434.4	5434.4	5436.3	5456.4	5441.7	5447.2
37.5°	5569.6	5575.1	5589.7	5598.8	5598.8	5606.1	5611.6	5606.1	5611.6	5609.8	5615.3
40°	5807.1	5801.6	5818.0	5821.7	5814.4	5823.5	5821.7	5816.2	5830.8	5819.9	5827.2
42.5°	6095.7	6064.6	6062.8	6077.4	6062.8	6070.1	6068.3	6055.5	6073.8	6079.3	6073.8
45°	6404.4	6388.0	6355.1	6355.1	6340.5	6335.0	6336.8	6335.0	6336.8	6358.7	6366.1
47.5°	6906.8	6806.3	6749.7	6696.7	6652.8	6651.0	6630.9	6641.9	6656.5	6693.0	6725.9
50°	7748.9	7516.9	7374.4	7242.9	7147.9	7115.0	7076.6	7073.0	7085.8	7127.8	7184.4
52.5°	9250.4	8928.9	8625.7	8344.4	8099.6	7911.4	7818.3	7769.0	7750.7	7792.7	7847.5
55°	11997.8	11391.3	10963.9	10678.9	10070.6	9813.0	9482.4	9330.8	9182.8	9197.4	9290.6
57.5°	16692.4	16365.4	16007.4	15508.7	15136.0	14686.7	13861.0	13400.7	13420.8	13528.5	13192.4
60°	22844.7	22514.1	22366.1	21913.1	21653.7	21472.9	21034.5	20270.9	20000.5	19949.4	19332.0
62.5°	25181.1	25259.6	25376.5	25504.4	25497.1	25575.6	25192.0	24943.6	24631.2	24225.7	23615.6
65°	24571.0	24770.1	25007.5	25351.0	25741.9	26030.5	26273.4	26244.2	25951.9	25411.2	24766.4
67.5°	22505.0	22702.2	22875.8	23336.1	23977.3	24563.6	25082.4	25435.0	25239.5	24792.0	24039.4
70°	19399.6	19542.0	19651.6	20051.7	20755.0	21471.0	22148.7	22740.6	22680.3	22137.8	21536.8
72.5°	14056.5	14401.7	14588.0	14560.6	14995.4	15797.3	15892.3	16398.3	16538.9	15954.4	14997.2
75°	6848.3	6853.8	6638.2	6567.0	6588.9	6727.7	6462.9	6479.3	6388.0	5973.3	5631.7
77.5°	2393.0	2327.2	2170.1	1983.8	1717.1	1466.8	1212.9	1103.3	1066.8	959.0	884.1
80°	2062.3	2159.2	2128.1	1974.7	1693.4	1349.9	1008.3	747.1	637.5	599.2	562.6
82.5°	2341.8	2714.5	2951.9	2939.2	2553.7	1918.0	1196.5	686.8	489.6	429.3	394.6
85°	1306.1	1404.7	1432.1	1304.3	1083.2	739.8	412.8	290.4	246.6	224.7	202.8
87.5°	208.2	190.0	186.3	162.6	153.4	140.7	124.2	116.9	107.8	102.3	102.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VST-E10-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1
2.5°	2648.7	2646.9	2641.4	2635.9	2632.3	2630.4	2628.6	2625.0	2623.1	2621.3	2617.7
5°	2710.8	2707.2	2698.0	2688.9	2685.2	2679.8	2674.3	2670.6	2667.0	2665.2	2657.8
7.5°	2807.6	2804.0	2793.0	2785.7	2783.9	2769.3	2767.5	2762.0	2752.8	2751.0	2740.1
10°	2924.5	2922.7	2913.6	2908.1	2904.5	2897.1	2886.2	2877.1	2867.9	2867.9	2860.6
12.5°	3059.7	3052.4	3057.9	3045.1	3041.5	3034.1	3028.7	3026.8	3015.9	3006.7	3004.9
15°	3218.6	3209.5	3209.5	3205.9	3202.2	3194.9	3193.1	3194.9	3183.9	3187.6	3176.6
17.5°	3415.9	3419.6	3417.8	3417.8	3408.6	3408.6	3394.0	3412.3	3399.5	3408.6	3405.0
20°	3662.5	3664.4	3660.7	3666.2	3669.8	3668.0	3666.2	3664.4	3669.8	3677.1	3671.7
22.5°	3925.6	3925.6	3923.8	3943.8	3921.9	3938.4	3943.8	3932.9	3962.1	3958.5	3963.9
25°	4210.5	4210.5	4225.2	4241.6	4245.3	4232.5	4239.8	4230.6	4248.9	4263.5	4267.2
27.5°	4475.4	4499.2	4510.1	4499.2	4508.3	4528.4	4526.6	4526.6	4539.4	4535.7	4570.4
30°	4747.6	4762.2	4776.8	4769.5	4773.2	4798.7	4800.6	4802.4	4818.8	4842.6	4868.2
32.5°	5058.1	5072.7	5065.4	5089.2	5087.4	5118.4	5123.9	5129.4	5180.5	5171.4	5224.4
35°	5439.9	5454.5	5447.2	5472.8	5469.1	5480.1	5500.2	5522.1	5531.2	5584.2	5626.2
37.5°	5618.9	5618.9	5635.4	5664.6	5675.6	5693.8	5724.9	5752.3	5797.9	5854.6	5920.3
40°	5834.5	5840.0	5861.9	5892.9	5913.0	5955.0	6011.7	6050.0	6119.4	6181.6	6258.3
42.5°	6095.7	6119.4	6145.0	6187.0	6230.9	6296.6	6377.0	6426.3	6517.7	6598.0	6693.0
45°	6400.8	6424.5	6484.8	6561.5	6625.4	6698.5	6764.3	6881.2	6963.4	7047.4	7129.6
47.5°	6769.8	6839.2	6888.5	6979.8	7058.4	7155.2	7237.4	7347.0	7436.5	7538.8	7608.2
50°	7242.9	7328.7	7392.7	7511.4	7588.1	7695.9	7800.0	7882.2	7973.5	8074.0	8130.6
52.5°	7922.4	8010.1	8090.5	8238.4	8333.4	8406.5	8545.3	8647.6	8731.6	8804.7	8866.8
55°	9394.7	9369.1	9592.0	9878.8	9911.7	10176.5	10225.9	10311.7	10467.0	10488.9	10662.5
57.5°	13601.6	13470.1	13793.4	14213.6	14140.5	14007.1	14564.3	14599.0	14520.4	14730.5	14493.0
60°	19423.3	19193.1	19280.8	19395.9	19229.7	19151.1	19178.5	19257.1	19180.4	19096.3	18866.2
62.5°	23310.5	22956.1	22702.2	22488.5	22218.2	22022.7	21803.5	21533.1	21460.1	21153.2	20895.6
65°	24139.8	23588.2	23186.3	22782.6	22410.0	22064.7	21734.1	21502.1	21195.2	20831.7	20563.2
67.5°	23228.3	22545.1	21956.9	21370.6	20948.6	20440.8	20192.3	19814.2	19436.1	19019.6	18773.0
70°	20579.6	19867.2	19127.4	18553.8	17980.2	17351.8	17229.4	16781.9	16564.5	15996.4	15897.8
72.5°	14204.4	13729.5	13398.8	12690.1	12341.2	12019.7	11917.4	11502.7	11546.6	10923.7	11150.2
75°	5050.8	4983.2	4886.4	4486.4	4415.1	4290.9	4258.0	4228.8	4524.7	4113.7	4411.5
77.5°	867.7	862.2	812.9	789.1	834.8	805.6	812.9	798.3	884.1	896.9	876.8
80°	538.9	524.3	507.8	496.9	498.7	487.7	489.6	493.2	498.7	496.9	502.3
82.5°	369.0	356.2	348.9	341.6	352.6	356.2	365.3	374.5	389.1	398.2	409.2
85°	200.9	184.5	184.5	182.7	197.3	208.2	222.9	241.1	266.7	288.6	312.4
87.5°	102.3	98.6	100.5	104.1	116.9	126.0	144.3	160.7	182.7	206.4	228.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VST-E10-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1	2623.1
2.5°	2615.8	2615.8	2614.0	2614.0	2612.2	2610.4	2608.5	2603.0	2583.0	2564.7	2551.9
5°	2656.0	2650.5	2648.7	2643.2	2641.4	2637.8	2632.3	2626.8	2590.3	2557.4	2533.6
7.5°	2738.2	2730.9	2727.3	2721.8	2716.3	2709.0	2701.7	2696.2	2652.4	2614.0	2584.8
10°	2846.0	2842.3	2840.5	2833.2	2833.2	2822.3	2820.4	2807.6	2760.1	2725.4	2699.9
12.5°	2995.8	2988.5	2986.7	2977.5	2981.2	2977.5	2973.9	2966.6	2931.9	2891.7	2857.0
15°	3182.1	3182.1	3173.0	3165.7	3167.5	3163.8	3171.2	3162.0	3140.1	3103.6	3046.9
17.5°	3406.8	3403.1	3406.8	3401.3	3405.0	3408.6	3399.5	3401.3	3390.4	3344.7	3260.7
20°	3668.0	3662.5	3684.5	3675.3	3695.4	3677.1	3680.8	3686.3	3686.3	3626.0	3512.7
22.5°	3967.6	3963.9	3963.9	3982.2	3989.5	3991.3	3998.6	4004.1	4018.7	3942.0	3761.2
25°	4267.2	4280.0	4281.8	4305.5	4316.5	4316.5	4322.0	4342.1	4385.9	4280.0	4046.1
27.5°	4572.2	4603.3	4610.6	4627.0	4643.5	4659.9	4672.7	4687.3	4758.6	4643.5	4338.4
30°	4877.3	4912.0	4937.6	4955.8	4975.9	5016.1	5023.4	5052.7	5171.4	5030.7	4616.1
32.5°	5235.3	5284.6	5317.5	5341.3	5372.3	5410.7	5432.6	5469.1	5584.2	5354.1	4818.8
35°	5662.8	5692.0	5739.5	5779.7	5797.9	5863.7	5898.4	5907.6	5995.2	5633.5	4968.6
37.5°	5958.7	6008.0	6090.2	6146.8	6179.7	6216.3	6274.7	6313.1	6397.1	5887.5	5043.5
40°	6335.0	6409.9	6475.7	6559.7	6612.7	6640.1	6698.5	6729.6	6740.5	6104.8	5019.8
42.5°	6793.5	6861.1	6948.8	7016.4	7056.5	7087.6	7135.1	7147.9	7005.4	6207.1	4891.9
45°	7224.6	7328.7	7403.6	7452.9	7482.2	7498.6	7527.8	7529.7	7224.6	6156.0	4672.7
47.5°	7688.6	7763.5	7832.9	7867.6	7863.9	7867.6	7856.6	7849.3	7334.2	5978.8	4391.4
50°	8201.9	8251.2	8280.4	8296.9	8306.0	8271.3	8222.0	8189.1	7343.3	5726.7	4106.4
52.5°	8890.6	8952.7	8947.2	8945.4	8872.3	8839.4	8707.9	8640.3	7290.4	5430.8	3784.9
55°	10635.1	10574.8	10456.0	10514.5	10216.7	10061.5	9856.9	9666.9	7359.8	5149.5	3412.3
57.5°	14588.0	14611.8	14273.8	14093.0	13590.7	12962.3	12456.3	11964.9	7984.5	4977.8	2926.4
60°	18712.7	18402.2	17972.9	17318.9	16672.3	15738.9	14838.3	13987.0	8607.4	4798.7	2351.0
62.5°	20513.8	20071.8	19423.3	18577.5	17561.9	16420.2	15298.6	14261.1	8306.0	4219.7	1709.8
65°	20148.5	19472.6	18756.6	17766.5	16531.6	15280.4	13970.6	12911.1	6948.8	3147.4	1054.0
67.5°	18237.8	17664.2	16907.9	15733.4	14412.7	13110.2	11910.1	10722.7	5162.3	1961.9	590.0
70°	15393.6	14832.8	14065.6	12863.6	11544.7	10298.9	9027.6	8059.4	3289.9	946.2	425.6
72.5°	10678.9	10224.0	9681.5	8824.8	7668.5	6535.9	5675.6	4932.1	1823.0	502.3	389.1
75°	4336.6	4338.4	4239.8	3878.1	3277.1	2825.9	2409.4	2044.1	761.7	427.4	383.6
77.5°	982.8	999.2	1092.4	1035.7	933.4	873.2	781.8	690.5	464.0	440.2	387.3
80°	496.9	498.7	493.2	495.0	489.6	491.4	484.1	478.6	434.8	453.0	387.3
82.5°	414.7	423.8	422.0	422.0	423.8	423.8	423.8	422.0	451.2	476.8	374.5
85°	328.8	347.1	361.7	376.3	392.7	403.7	409.2	414.7	438.4	469.5	339.8
87.5°	248.4	270.4	288.6	303.2	328.8	328.8	347.1	359.9	359.9	367.2	179.0
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: P159379

CATALOG NUMBER: VST-E10-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2623.1	2623.1	2623.1	2623.1	2623.1
2.5°	2533.6	2526.3	2519.0	2515.4	2508.1
5°	2515.4	2500.8	2491.6	2491.6	2484.3
7.5°	2568.3	2562.9	2550.1	2542.8	2550.1
10°	2681.6	2672.5	2657.8	2646.9	2652.4
12.5°	2833.2	2796.7	2767.5	2754.7	2745.5
15°	2990.3	2917.2	2858.8	2825.9	2816.8
17.5°	3158.4	3030.5	2942.8	2893.5	2884.4
20°	3330.1	3171.2	3046.9	2983.0	2981.2
22.5°	3536.5	3324.6	3165.7	3081.6	3076.2
25°	3753.9	3461.6	3251.5	3143.8	3132.8
27.5°	3942.0	3571.2	3304.5	3176.6	3165.7
30°	4099.1	3653.4	3348.3	3200.4	3185.8
32.5°	4212.4	3700.9	3366.6	3207.7	3191.2
35°	4248.9	3682.6	3315.5	3141.9	3123.7
37.5°	4199.6	3563.9	3173.0	2981.2	2959.3
40°	4051.6	3355.6	2941.0	2743.7	2716.3
42.5°	3825.1	3099.9	2661.5	2473.4	2438.6
45°	3545.6	2811.3	2383.8	2173.8	2157.3
47.5°	3253.4	2508.1	2071.5	1881.5	1861.4
50°	2937.3	2157.3	1766.4	1560.0	1560.0
52.5°	2561.0	1815.7	1412.0	1256.8	1244.0
55°	2128.1	1430.3	1125.2	1006.5	990.1
57.5°	1662.3	1099.7	898.7	829.3	811.1
60°	1222.1	825.7	723.4	685.0	677.7
62.5°	829.3	628.4	582.7	566.3	564.5
65°	560.8	489.6	476.8	471.3	473.1
67.5°	431.1	407.4	401.9	400.0	400.0
70°	374.5	359.9	354.4	356.2	354.4
72.5°	352.6	332.5	334.3	337.9	336.1
75°	345.2	319.7	327.0	328.8	321.5
77.5°	339.8	305.1	323.3	328.8	308.7
80°	328.8	292.3	336.1	337.9	303.2
82.5°	301.4	259.4	336.1	310.5	274.0
85°	255.7	197.3	380.0	270.4	202.8
87.5°	162.6	116.9	257.6	184.5	122.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)