

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: P158034

Luminaire Tested: **VST-F07-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158034
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F07-LED-E-U-RW-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16443 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 180.5
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

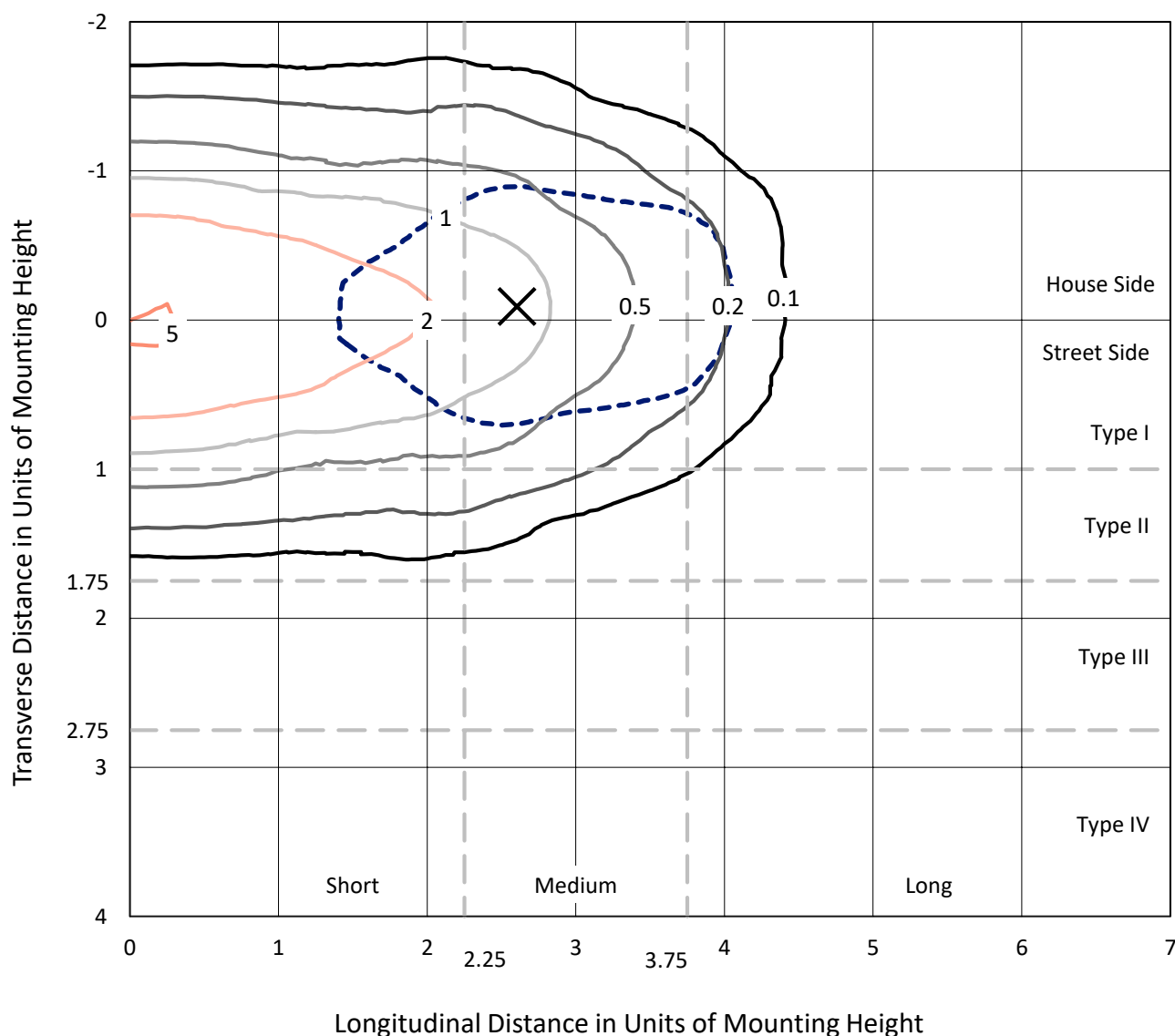


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

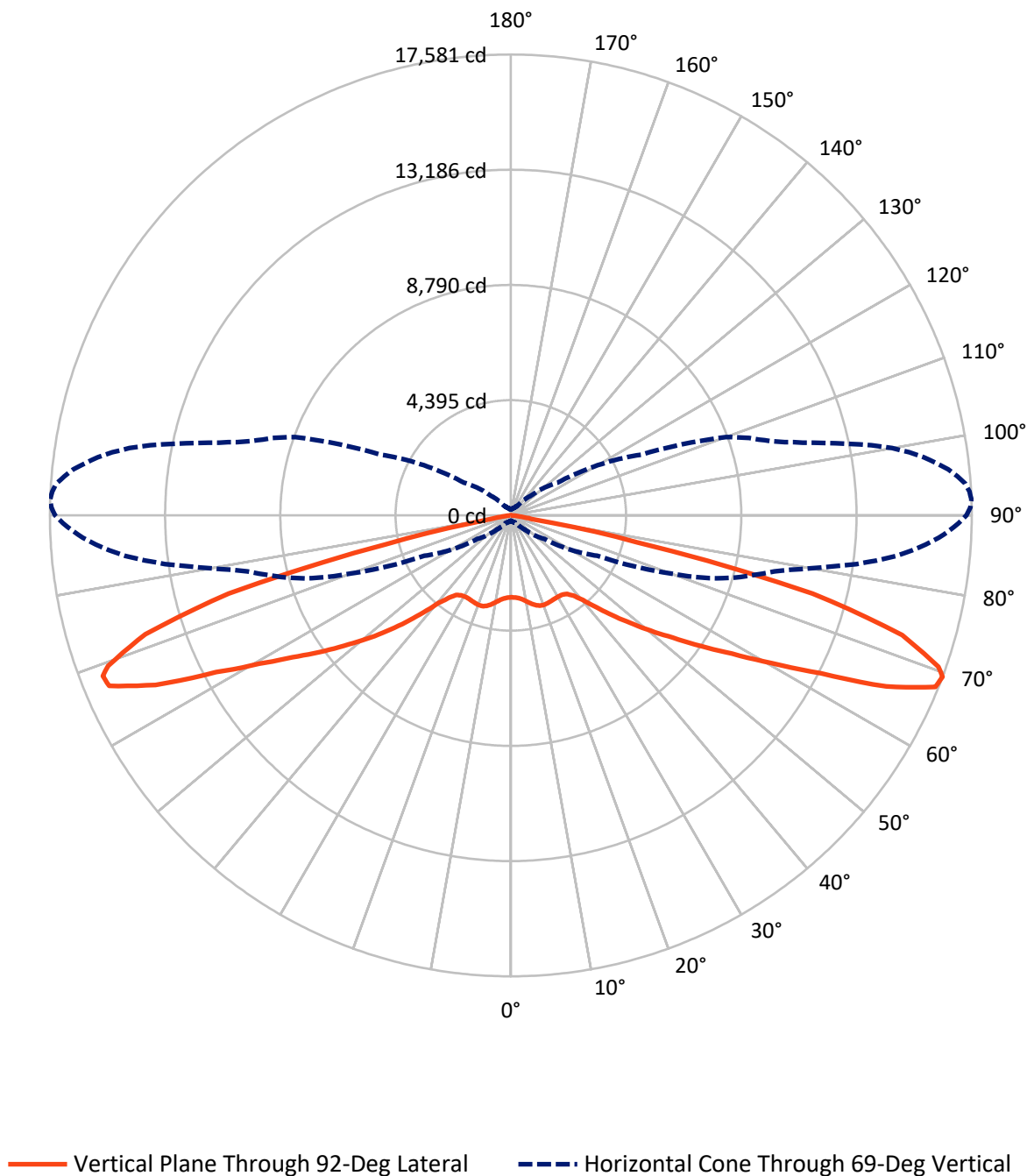


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8720.6	0.0	8720.6
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	7722.4	0.0	7722.4
	% Fixture	47.0	0.0	47.0
Total	Lumens	16443.0	0.0	16443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.6	1.9
10°-20°	965.5	5.9
20°-30°	1566.4	9.5
30°-40°	1952.2	11.9
40°-50°	2430.7	14.8
50°-60°	2997.7	18.2
60°-70°	3722.9	22.6
70°-80°	2287.5	13.9
80°-90°	214.4	1.3
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°	16443.0	100.0
0°-180°	16443.0	100.0

Coefficient of Utilization



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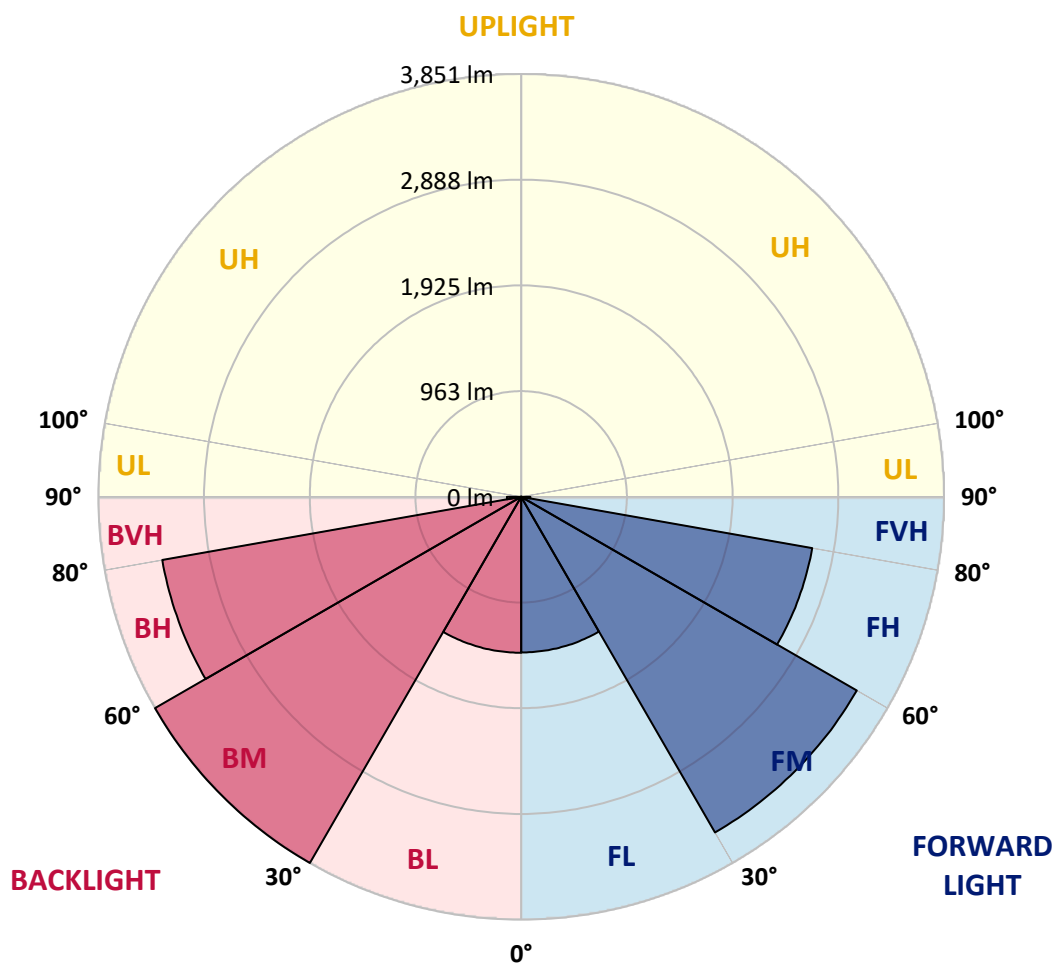
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1417.3	8.6			
FM	(30°-60°)	3529.7	21.5			
FH	(60°-80°)	2691.5	16.4			G2/5000
FVH	(80°-90°)	83.9	0.5			G1/100
BL	(0°-30°)	1420.3	8.6	B3/2500		
BM	(30°-60°)	3850.9	23.4	B3/5000		
BH	(60°-80°)	3318.9	20.2	B4/5000		G4/5000
BVH	(80°-90°)	130.4	0.8			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 I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5
2.5°	3173.1	3164.7	3172.1	3173.1	3172.1	3172.1	3162.6	3160.4	3147.8	3150.9	3149.9
5°	3216.4	3213.2	3218.5	3220.6	3222.7	3218.5	3211.1	3207.9	3199.5	3196.3	3195.3
7.5°	3256.5	3251.2	3259.7	3267.1	3272.3	3273.4	3274.4	3269.2	3269.2	3264.9	3264.9
10°	3290.3	3286.1	3299.8	3309.3	3326.2	3335.7	3346.2	3353.6	3357.8	3358.9	3357.8
12.5°	3305.1	3301.9	3324.1	3352.6	3384.2	3406.4	3432.8	3451.8	3457.1	3456.0	3461.3
15°	3279.7	3281.8	3315.6	3371.6	3439.1	3495.1	3532.0	3547.8	3552.1	3554.2	3555.2
17.5°	3211.1	3215.3	3263.9	3354.7	3472.9	3574.2	3629.1	3629.1	3620.7	3620.7	3619.6
20°	3101.3	3105.5	3168.9	3299.8	3473.9	3629.1	3707.2	3691.4	3659.7	3653.4	3647.1
22.5°	2949.3	2966.2	3035.9	3187.9	3428.6	3645.0	3755.8	3732.6	3683.0	3669.2	3659.7
25°	2777.3	2775.1	2858.5	3029.5	3318.8	3607.0	3769.5	3765.3	3712.5	3697.7	3680.8
27.5°	2580.9	2587.3	2664.3	2837.4	3150.9	3497.2	3746.3	3802.2	3759.0	3744.2	3728.3
30°	2379.3	2385.6	2458.5	2660.1	2959.9	3339.9	3698.8	3838.1	3821.2	3809.6	3799.1
32.5°	2176.6	2178.7	2265.3	2481.7	2798.4	3152.0	3627.0	3870.9	3894.1	3888.8	3884.6
35°	1986.6	1988.7	2082.7	2302.2	2639.0	2991.5	3540.5	3918.4	3993.3	3999.6	4003.9
37.5°	1801.9	1805.1	1901.1	2131.2	2481.7	2870.2	3444.4	3991.2	4132.6	4155.9	4160.1
40°	1618.2	1621.4	1713.2	1957.1	2322.3	2763.5	3370.5	4093.6	4320.5	4352.2	4384.9
42.5°	1443.0	1454.6	1532.7	1766.0	2145.0	2631.6	3338.8	4218.1	4543.3	4592.9	4629.8
45°	1279.4	1280.4	1369.1	1587.6	1934.9	2453.2	3317.7	4359.6	4792.4	4867.3	4918.0
47.5°	1104.1	1116.8	1209.7	1421.9	1738.6	2232.6	3250.2	4525.3	5063.7	5151.3	5253.7
50°	934.2	952.1	1041.9	1251.9	1559.1	2004.6	3068.6	4719.5	5368.7	5482.7	5601.0
52.5°	770.6	769.5	864.5	1083.0	1378.6	1811.4	2774.1	4923.3	5721.3	5843.8	5971.5
55°	582.7	582.7	676.6	876.1	1183.3	1639.3	2458.5	5049.9	6048.5	6196.3	6335.7
57.5°	400.1	410.6	499.3	671.4	979.6	1482.0	2216.7	4977.1	6298.7	6482.4	6648.1
60°	296.6	307.2	372.6	482.4	766.4	1296.3	2035.2	4634.0	6449.7	6693.5	6908.8
62.5°	256.5	263.9	326.2	386.3	552.1	1098.9	1874.7	4198.1	6667.1	7000.7	7300.5
65°	229.1	236.5	298.7	333.6	431.7	883.5	1785.0	3949.0	6926.8	7436.6	7871.5
67.5°	212.2	220.6	273.4	298.7	376.8	799.1	1715.3	3890.9	6924.7	7543.3	8098.5
69°	203.7	210.1	253.3	280.8	364.2	773.7	1564.4	3638.6	6467.6	7131.6	7688.9
70°	198.5	204.8	241.7	269.2	360.0	728.4	1425.0	3305.1	5947.2	6615.4	7181.2
72.5°	181.6	187.9	215.3	240.7	299.8	486.6	993.3	2115.4	4249.8	4726.9	5374.0
75°	160.4	167.8	189.0	210.1	227.0	281.8	573.2	1097.8	2430.0	2792.0	3368.4
77.5°	130.9	138.3	160.4	194.2	192.1	214.3	372.6	674.5	1137.9	1411.3	1624.6
80°	107.7	112.9	131.9	196.3	157.3	179.5	301.9	553.1	801.2	885.6	936.3
82.5°	71.8	79.2	102.4	154.1	120.3	127.7	225.9	517.2	677.7	743.1	804.4
85°	33.8	36.9	62.3	82.3	72.8	68.6	128.8	365.2	504.6	535.2	558.4
87.5°	0.0	0.0	3.2	6.3	9.5	9.5	23.2	77.1	141.4	171.0	168.9
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5
2.5°	3145.7	3146.7	3145.7	3145.7	3144.6	3142.5	3142.5	3140.4	3141.4	3140.4	3142.5
5°	3194.2	3194.2	3191.1	3188.9	3192.1	3188.9	3190.0	3184.7	3184.7	3181.6	3177.3
7.5°	3263.9	3263.9	3264.9	3258.6	3262.8	3263.9	3260.7	3258.6	3256.5	3251.2	3252.3
10°	3356.8	3356.8	3359.9	3351.5	3355.7	3357.8	3358.9	3358.9	3356.8	3347.3	3348.3
12.5°	3460.2	3458.1	3459.2	3454.9	3459.2	3461.3	3463.4	3461.3	3461.3	3459.2	3458.1
15°	3554.2	3553.1	3555.2	3552.1	3553.1	3555.2	3561.6	3560.5	3559.5	3553.1	3553.1
17.5°	3618.6	3615.4	3613.3	3612.2	3612.2	3611.2	3612.2	3612.2	3609.1	3608.0	3608.0
20°	3642.8	3634.4	3629.1	3626.0	3621.7	3619.6	3617.5	3618.6	3616.5	3613.3	3614.3
22.5°	3647.1	3635.5	3624.9	3615.4	3607.0	3601.7	3596.4	3594.3	3589.0	3585.8	3585.8
25°	3667.1	3649.2	3632.3	3616.5	3603.8	3592.2	3580.6	3572.1	3565.8	3558.4	3556.3
27.5°	3711.5	3692.5	3672.4	3652.3	3635.5	3612.2	3596.4	3579.5	3564.7	3553.1	3544.7
30°	3780.1	3761.1	3741.0	3717.8	3695.6	3671.3	3645.0	3624.9	3603.8	3580.6	3567.9
32.5°	3870.9	3858.2	3838.1	3816.0	3795.9	3770.6	3738.9	3708.3	3688.2	3660.8	3640.7
35°	4000.7	3985.9	3979.6	3970.1	3950.0	3934.2	3899.4	3870.9	3851.9	3813.8	3799.1
37.5°	4178.0	4177.0	4182.3	4179.1	4182.3	4162.2	4146.4	4145.3	4117.9	4080.9	4045.0
40°	4419.8	4432.4	4460.9	4481.0	4500.0	4502.1	4524.3	4501.0	4504.2	4498.9	4462.0
42.5°	4695.3	4738.5	4772.3	4831.4	4876.8	4919.1	4947.6	4986.6	5016.2	5042.6	5048.9
45°	5002.4	5066.8	5144.9	5197.7	5286.4	5357.1	5454.2	5529.2	5607.3	5684.4	5711.8
47.5°	5336.0	5416.2	5502.8	5601.0	5712.9	5823.7	5973.6	6088.6	6214.3	6318.8	6411.7
50°	5704.4	5787.8	5903.9	6016.9	6171.0	6298.7	6495.1	6646.0	6848.7	6988.0	7108.3
52.5°	6088.6	6193.2	6323.0	6447.5	6604.8	6768.4	6987.0	7209.7	7453.5	7664.6	7839.9
55°	6464.4	6593.2	6717.8	6863.5	7037.6	7227.6	7474.6	7768.1	8072.1	8313.8	8546.1
57.5°	6799.1	6947.9	7094.6	7242.4	7420.8	7641.4	7919.0	8235.7	8584.1	8906.0	9224.8
60°	7109.4	7287.8	7467.2	7652.0	7856.8	8129.1	8462.7	8852.2	9302.9	9743.1	10160.1
62.5°	7600.3	7834.6	8057.3	8295.9	8542.9	8862.7	9256.5	9767.4	10284.6	10834.6	11262.1
65°	8265.3	8594.6	8886.0	9195.3	9515.1	9942.6	10413.4	11024.6	11765.6	12329.3	13015.4
67.5°	8595.7	9029.5	9404.3	9748.4	10144.2	10576.0	11135.4	11858.5	12649.1	13466.2	14231.5
69°	8207.2	8654.8	9069.6	9454.9	9855.0	10274.1	10858.9	11600.9	12437.0	13320.5	14067.9
70°	7703.7	8151.3	8593.6	9032.7	9397.9	9806.4	10393.3	11158.7	11993.6	12912.0	13653.0
72.5°	5901.8	6440.2	6840.2	7251.9	7675.2	8021.4	8699.1	9344.1	10213.9	11146.0	11962.0
75°	3775.8	4270.9	4707.9	5058.4	5472.2	5887.0	6387.4	7104.1	7648.8	8414.1	9076.0
77.5°	1940.2	2086.9	2508.1	2633.7	2920.8	3146.7	3422.2	3601.7	4045.0	4139.0	4529.5
80°	919.4	828.6	780.1	735.7	748.4	743.1	721.0	691.4	728.4	712.5	706.2
82.5°	801.2	714.6	570.0	484.5	419.1	355.7	306.1	280.8	284.0	292.4	295.6
85°	561.6	527.8	411.7	312.5	243.8	189.0	152.0	145.7	149.9	161.5	157.3
87.5°	162.6	170.0	149.9	104.5	72.8	52.8	41.2	46.4	44.3	43.3	45.4
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5
2.5°	3142.5	3141.4	3138.3	3135.1	3135.1	3133.0	3135.1	3136.2	3135.1	3135.1	3133.0
5°	3178.4	3179.4	3182.6	3176.3	3175.2	3176.3	3172.1	3171.0	3171.0	3171.0	3166.8
7.5°	3247.0	3250.2	3250.2	3245.9	3244.9	3248.1	3241.7	3239.6	3239.6	3235.4	3234.3
10°	3349.4	3352.6	3347.3	3344.1	3340.9	3345.2	3339.9	3339.9	3339.9	3333.6	3332.5
12.5°	3463.4	3461.3	3459.2	3461.3	3458.1	3458.1	3454.9	3452.8	3451.8	3450.7	3448.6
15°	3552.1	3559.5	3559.5	3561.6	3559.5	3559.5	3555.2	3556.3	3554.2	3553.1	3554.2
17.5°	3609.1	3611.2	3616.5	3619.6	3619.6	3620.7	3618.6	3620.7	3618.6	3618.6	3622.8
20°	3616.5	3618.6	3623.8	3629.1	3632.3	3634.4	3634.4	3637.6	3639.7	3641.8	3647.1
22.5°	3586.9	3590.1	3596.4	3605.9	3611.2	3613.3	3617.5	3622.8	3628.1	3632.3	3639.7
25°	3556.3	3557.3	3563.7	3573.2	3579.5	3584.8	3592.2	3598.5	3605.9	3614.3	3622.8
27.5°	3539.4	3538.3	3543.6	3553.1	3558.4	3565.8	3572.1	3581.6	3590.1	3600.6	3608.0
30°	3554.2	3545.7	3546.8	3551.0	3555.2	3560.5	3567.9	3576.3	3585.8	3595.3	3603.8
32.5°	3619.6	3600.6	3588.0	3584.8	3585.8	3586.9	3591.1	3596.4	3603.8	3611.2	3614.3
35°	3761.1	3728.3	3711.5	3697.7	3686.1	3676.6	3678.7	3677.7	3677.7	3684.0	3676.6
37.5°	4030.2	3989.1	3971.1	3946.9	3933.1	3898.3	3888.8	3886.7	3873.0	3873.0	3857.1
40°	4452.5	4428.2	4414.5	4392.3	4325.8	4334.3	4286.8	4287.8	4248.8	4253.0	4225.5
42.5°	5053.1	5056.3	5039.4	5024.6	4972.9	4949.7	4905.3	4842.0	4792.4	4791.3	4736.4
45°	5747.7	5785.7	5731.9	5750.9	5705.5	5643.2	5591.5	5510.2	5433.1	5408.8	5352.9
47.5°	6473.9	6536.2	6495.1	6502.4	6480.3	6391.6	6321.9	6221.7	6121.4	6053.8	6020.0
50°	7249.8	7291.0	7289.9	7269.9	7259.3	7172.7	7060.8	6984.8	6911.0	6820.2	6790.6
52.5°	7952.8	8048.9	8113.3	8098.5	8067.9	8016.2	7916.9	7851.5	7742.8	7730.1	7742.8
55°	8705.5	8830.0	8895.5	8974.6	8975.7	8966.2	8925.0	8900.7	8799.4	8811.0	8796.2
57.5°	9418.0	9600.6	9700.9	9869.8	9927.8	10004.9	9976.4	10008.1	9946.8	9986.9	9975.3
60°	10383.8	10637.2	10804.0	11035.1	11142.8	11336.0	11374.0	11397.2	11431.0	11513.3	11466.9
62.5°	11598.8	11970.4	12316.6	12631.2	12734.6	13024.9	13072.4	13254.0	13263.5	13319.4	13217.1
65°	13587.6	14040.4	14421.5	14798.3	15015.8	15355.7	15492.9	15845.5	15737.8	15783.2	15564.7
67.5°	14890.2	15416.9	15927.8	16284.6	16645.6	16992.9	17243.1	17471.1	17469.0	17424.6	17230.4
69°	14775.1	15362.0	15865.5	16343.7	16723.7	17080.5	17381.4	17529.1	17580.9	17516.5	17378.2
70°	14377.1	14979.9	15596.4	15990.1	16403.9	16795.5	17105.8	17267.4	17303.2	17257.9	17138.6
72.5°	12538.3	13116.8	13796.6	14154.4	14654.8	14937.7	15365.2	15574.2	15611.1	15553.1	15475.0
75°	9785.3	9889.8	10582.3	10810.3	11173.4	11499.6	11765.6	11698.1	11887.0	11850.1	11820.5
77.5°	4609.8	4331.1	4779.7	4988.7	4878.9	4586.5	5011.9	4704.8	4908.5	5173.5	5105.9
80°	760.0	757.9	778.0	822.3	769.5	817.0	816.0	792.7	794.9	851.9	822.3
82.5°	292.4	298.7	301.9	310.3	310.3	311.4	316.7	323.0	317.7	328.3	326.2
85°	158.3	168.9	159.4	152.0	157.3	160.4	164.7	170.0	164.7	180.5	172.1
87.5°	41.2	43.3	38.0	38.0	36.9	33.8	33.8	35.9	39.1	46.4	50.7
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-F07-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5
2.5°	3128.8	3129.8	3130.9	3127.7	3125.6	3125.6	3124.5	3122.4	3121.4	3121.4	3121.4
5°	3164.7	3166.8	3161.5	3160.4	3158.3	3156.2	3156.2	3154.1	3155.2	3155.2	3149.9
7.5°	3236.4	3233.3	3226.9	3222.7	3226.9	3219.6	3216.4	3218.5	3216.4	3217.4	3215.3
10°	3332.5	3332.5	3325.1	3329.3	3324.1	3315.6	3318.8	3315.6	3313.5	3306.1	3310.3
12.5°	3451.8	3448.6	3444.4	3434.9	3431.7	3430.7	3421.2	3422.2	3419.1	3416.9	3413.8
15°	3556.3	3555.2	3545.7	3540.5	3539.4	3535.2	3531.0	3528.8	3523.6	3522.5	3520.4
17.5°	3626.0	3622.8	3618.6	3613.3	3613.3	3607.0	3604.8	3599.6	3598.5	3595.3	3592.2
20°	3649.2	3650.2	3646.0	3641.8	3639.7	3635.5	3632.3	3628.1	3626.0	3621.7	3618.6
22.5°	3643.9	3643.9	3639.7	3638.6	3634.4	3628.1	3623.8	3618.6	3613.3	3608.0	3601.7
25°	3627.0	3626.0	3622.8	3617.5	3612.2	3602.7	3594.3	3585.8	3578.5	3572.1	3562.6
27.5°	3612.2	3610.1	3603.8	3596.4	3585.8	3575.3	3559.5	3547.8	3538.3	3529.9	3519.3
30°	3607.0	3599.6	3590.1	3578.5	3565.8	3550.0	3533.1	3518.3	3507.7	3499.3	3495.1
32.5°	3613.3	3603.8	3589.0	3574.2	3558.4	3539.4	3522.5	3509.8	3500.3	3498.2	3498.2
35°	3671.3	3655.5	3635.5	3614.3	3594.3	3578.5	3566.8	3565.8	3559.5	3566.8	3578.5
37.5°	3841.3	3827.6	3797.0	3769.5	3755.8	3748.4	3737.8	3740.0	3725.2	3748.4	3767.4
40°	4202.3	4185.4	4149.5	4127.4	4099.9	4073.5	4094.6	4088.3	4098.9	4094.6	4114.7
42.5°	4729.0	4712.2	4655.2	4646.7	4635.1	4624.5	4624.5	4616.1	4611.9	4626.7	4609.8
45°	5369.8	5336.0	5314.9	5340.2	5305.4	5316.0	5352.9	5303.3	5314.9	5246.3	5183.0
47.5°	6034.8	6031.6	6026.4	6057.0	6062.3	6078.1	6098.1	6047.5	5955.6	5903.9	5775.1
50°	6800.1	6832.8	6845.5	6875.1	6887.7	6899.3	6867.7	6792.7	6637.6	6500.3	6348.3
52.5°	7730.1	7673.1	7751.2	7779.7	7767.0	7720.6	7606.6	7514.8	7300.5	7103.1	6867.7
55°	8813.1	8826.9	8772.0	8749.8	8706.5	8577.7	8420.4	8213.6	7942.3	7684.7	7387.0
57.5°	9916.2	9910.9	9825.4	9705.1	9558.4	9403.2	9168.9	8872.2	8555.6	8209.3	7849.4
60°	11257.9	11252.6	11079.5	10873.6	10664.6	10414.5	10047.1	9690.3	9266.0	8811.0	8382.4
62.5°	13020.7	12793.8	12623.8	12316.6	11993.6	11666.4	11169.2	10695.2	10128.4	9554.2	9053.8
65°	15279.7	14906.0	14712.8	14267.4	13767.0	13256.1	12750.5	12127.7	11364.5	10669.9	10058.7
67.5°	16950.7	16608.7	16255.0	15810.6	15261.7	14691.7	13999.2	13214.9	12348.3	11569.3	10903.2
69°	17097.4	16777.6	16353.2	15907.8	15388.4	14768.8	14013.0	13134.7	12256.5	11467.9	10812.4
70°	16874.7	16534.8	16088.3	15624.9	15044.3	14459.5	13667.8	12752.6	11873.3	11082.6	10443.0
72.5°	15213.2	14881.7	14406.7	13852.5	13257.2	12756.8	12005.2	11051.0	10094.6	9364.1	8865.9
75°	11568.2	11495.4	11158.7	10835.6	10367.0	9808.6	9121.4	8479.6	7695.3	6922.6	6458.1
77.5°	4935.9	5103.8	5279.0	5304.3	5321.2	5149.2	5042.6	4881.1	4356.4	4117.9	3871.9
80°	912.0	814.9	869.8	876.1	912.0	931.0	1000.7	1186.5	1207.6	1253.0	1308.9
82.5°	324.1	329.3	337.8	341.0	344.1	356.8	404.3	484.5	557.4	652.4	779.0
85°	183.7	186.8	194.2	200.6	204.8	217.5	243.8	291.3	363.1	471.8	639.7
87.5°	55.9	63.3	67.6	76.0	79.2	81.3	92.9	124.6	160.4	237.5	346.2
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5	3123.5
2.5°	3121.4	3120.3	3118.2	3116.1	3117.2	3115.0	3108.7	3106.6	3099.2	3093.9	3089.7
5°	3149.9	3148.8	3144.6	3145.7	3144.6	3134.0	3126.7	3114.0	3106.6	3095.0	3090.8
7.5°	3209.0	3207.9	3200.6	3203.7	3201.6	3185.8	3173.1	3153.0	3142.5	3127.7	3116.1
10°	3297.7	3297.7	3289.2	3290.3	3290.3	3269.2	3247.0	3213.2	3188.9	3165.7	3145.7
12.5°	3405.3	3401.1	3400.1	3394.8	3390.6	3367.3	3333.6	3288.2	3242.8	3204.8	3177.3
15°	3514.1	3507.7	3504.6	3498.2	3493.0	3471.8	3426.4	3370.5	3309.3	3248.1	3202.7
17.5°	3584.8	3580.6	3574.2	3572.1	3564.7	3543.6	3512.0	3456.0	3380.0	3294.5	3225.9
20°	3611.2	3603.8	3599.6	3595.3	3591.1	3576.3	3576.3	3540.5	3456.0	3335.7	3231.2
22.5°	3594.3	3590.1	3583.7	3580.6	3576.3	3578.5	3619.6	3614.3	3517.2	3345.2	3193.2
25°	3555.2	3550.0	3544.7	3544.7	3543.6	3565.8	3665.0	3678.7	3535.2	3298.7	3109.8
27.5°	3515.1	3507.7	3509.8	3510.9	3516.2	3563.7	3714.6	3695.6	3486.6	3186.8	2966.2
30°	3490.8	3490.8	3496.1	3504.6	3515.1	3598.5	3753.7	3657.6	3361.0	3017.9	2776.2
32.5°	3501.4	3512.0	3523.6	3544.7	3560.5	3675.6	3767.4	3559.5	3178.4	2808.9	2577.8
35°	3595.3	3608.0	3630.2	3662.9	3681.9	3786.4	3767.4	3415.9	2966.2	2629.5	2373.0
37.5°	3800.1	3812.8	3839.2	3864.5	3883.5	3925.7	3751.6	3233.3	2788.9	2443.7	2189.3
40°	4129.5	4147.4	4166.4	4162.2	4149.5	4108.4	3719.9	3063.3	2625.3	2281.1	2008.8
42.5°	4592.9	4576.0	4573.9	4532.7	4490.5	4314.2	3696.7	2952.5	2484.9	2110.1	1829.3
45°	5128.1	5059.4	4988.7	4933.8	4869.4	4540.1	3690.3	2862.8	2329.7	1920.1	1634.1
47.5°	5666.4	5556.6	5419.4	5333.9	5229.4	4780.8	3709.3	2742.4	2130.2	1713.2	1451.4
50°	6194.2	6014.8	5844.8	5742.4	5624.2	5057.3	3740.0	2539.8	1891.6	1525.3	1284.7
52.5°	6682.9	6451.8	6277.6	6157.3	6012.6	5379.3	3712.5	2273.7	1684.7	1344.8	1126.3
55°	7147.4	6892.0	6711.4	6584.8	6414.8	5702.3	3514.1	2032.0	1487.3	1168.5	947.9
57.5°	7553.8	7308.9	7121.0	6949.0	6805.4	5983.1	3122.4	1832.5	1297.3	966.9	754.7
60°	8028.8	7753.3	7530.6	7346.9	7178.0	6127.7	2683.3	1655.2	1094.6	748.4	545.7
62.5°	8669.6	8352.9	8095.3	7885.3	7664.6	6159.4	2383.5	1477.8	868.8	541.5	396.9
65°	9619.6	9229.0	8907.1	8617.8	8319.1	6028.5	2235.7	1284.7	646.0	402.2	332.5
67.5°	10374.3	9969.0	9596.4	9224.8	8842.7	5785.7	2203.0	1106.3	496.1	342.0	298.7
69°	10282.5	9896.2	9554.2	9152.0	8728.7	5480.6	2170.3	1037.6	452.8	317.7	282.9
70°	9928.9	9562.6	9215.3	8888.1	8369.8	5140.7	2083.7	999.6	436.0	306.1	271.3
72.5°	8389.8	7965.5	7628.8	7221.3	6675.6	3820.2	1580.2	808.6	400.1	279.7	244.9
75°	6119.3	5767.7	5432.1	4981.3	4450.4	2210.4	983.8	462.3	293.5	253.3	221.7
77.5°	3573.2	3494.0	3169.9	2873.3	2347.6	1125.3	564.7	276.6	228.0	230.1	195.3
80°	1344.8	1432.4	1465.2	1362.8	1259.3	776.9	410.6	224.8	198.5	227.0	165.7
82.5°	980.6	1137.9	1156.9	1108.4	1031.3	724.1	328.3	180.5	161.5	243.8	142.5
85°	818.1	905.7	919.4	868.8	843.4	613.3	229.1	126.7	118.2	175.2	106.6
87.5°	413.8	436.0	447.6	405.3	407.5	286.1	91.8	53.8	64.4	74.9	59.1
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-F07-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3123.5	3123.5
2.5°	3080.2	3086.5
5°	3084.4	3084.4
7.5°	3108.7	3108.7
10°	3135.1	3136.2
12.5°	3159.4	3158.3
15°	3178.4	3175.2
17.5°	3190.0	3186.8
20°	3178.4	3173.1
22.5°	3119.3	3104.5
25°	3011.6	2992.6
27.5°	2869.1	2856.4
30°	2683.3	2664.3
32.5°	2465.9	2456.4
35°	2257.9	2246.3
37.5°	2067.9	2064.7
40°	1907.5	1890.6
42.5°	1719.6	1712.2
45°	1528.5	1524.3
47.5°	1349.0	1344.8
50°	1183.3	1174.9
52.5°	1020.8	1007.0
55°	840.3	830.8
57.5°	645.0	636.5
60°	453.9	444.4
62.5°	323.0	312.5
65°	269.2	260.7
67.5°	243.8	234.3
69°	232.2	223.8
70°	224.8	218.5
72.5°	209.0	204.8
75°	191.1	187.9
77.5°	167.8	162.6
80°	140.4	135.1
82.5°	118.2	112.9
85°	79.2	71.8
87.5°	35.9	31.7
90°	0.0	0.0

(END OF REPORT)