

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: P158043

Luminaire Tested: **VST-F08-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158043
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-F08-LED-E-U-RW-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17365 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 204.4
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

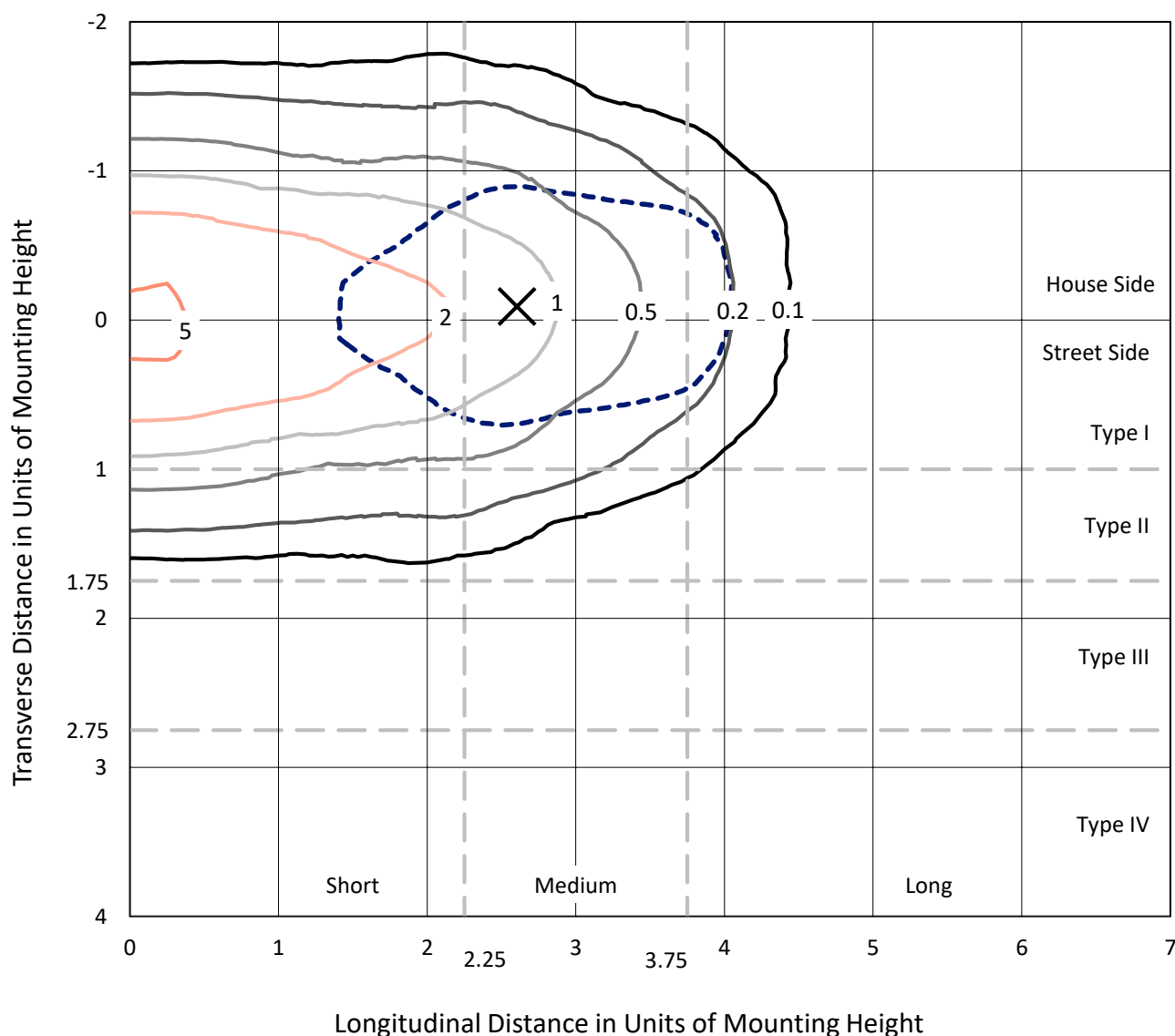


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

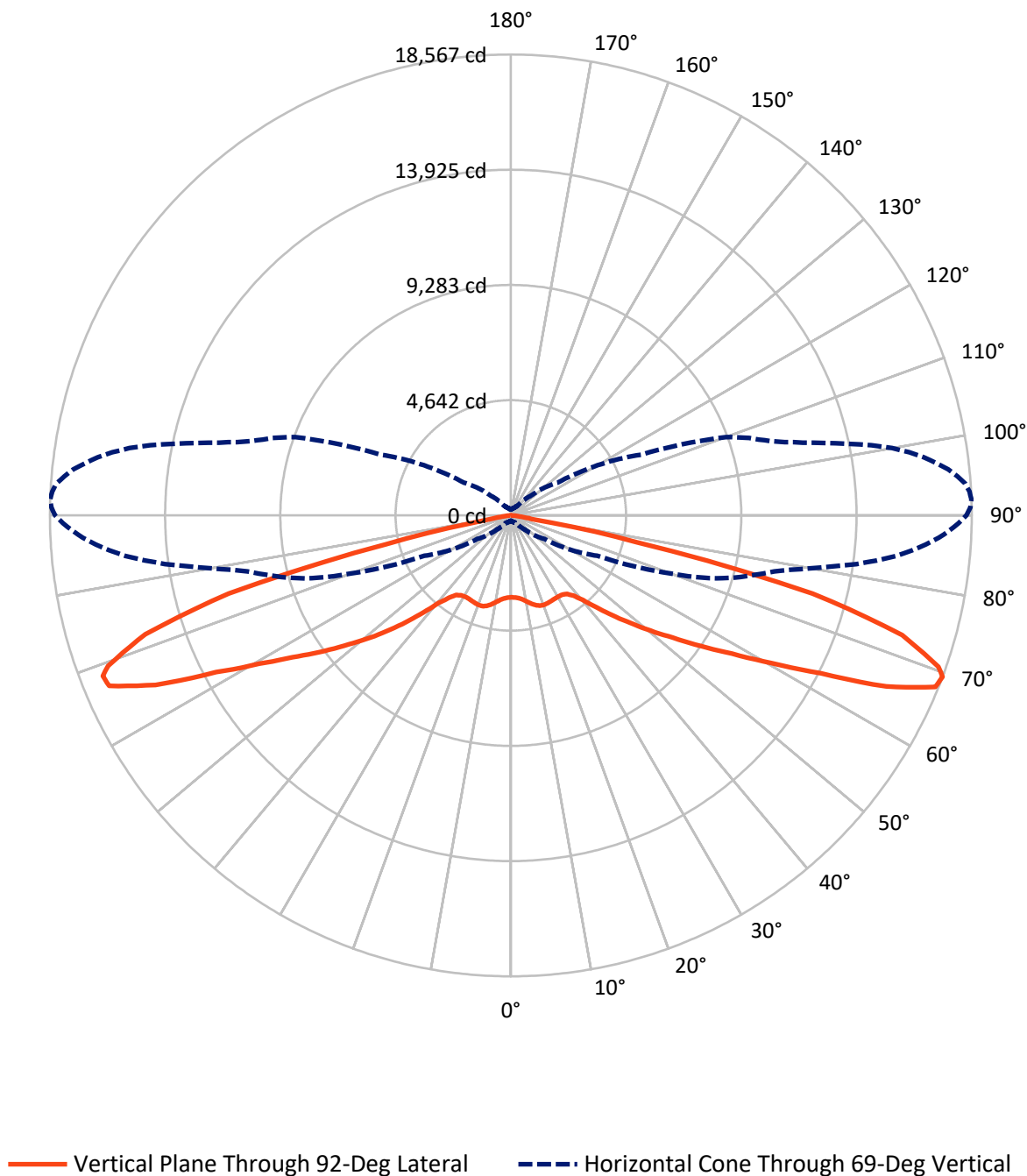


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9209.6	0.0	9209.6
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	8155.4	0.0	8155.4
	% Fixture	47.0	0.0	47.0
Total	Lumens	17365.0	0.0	17365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	1.9
10°-20°	1019.6	5.9
20°-30°	1654.3	9.5
30°-40°	2061.7	11.9
40°-50°	2567.0	14.8
50°-60°	3165.8	18.2
60°-70°	3931.7	22.6
70°-80°	2415.8	13.9
80°-90°	226.4	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°	17365.0	100.0
0°-180°	17365.0	100.0

Coefficient of Utilization



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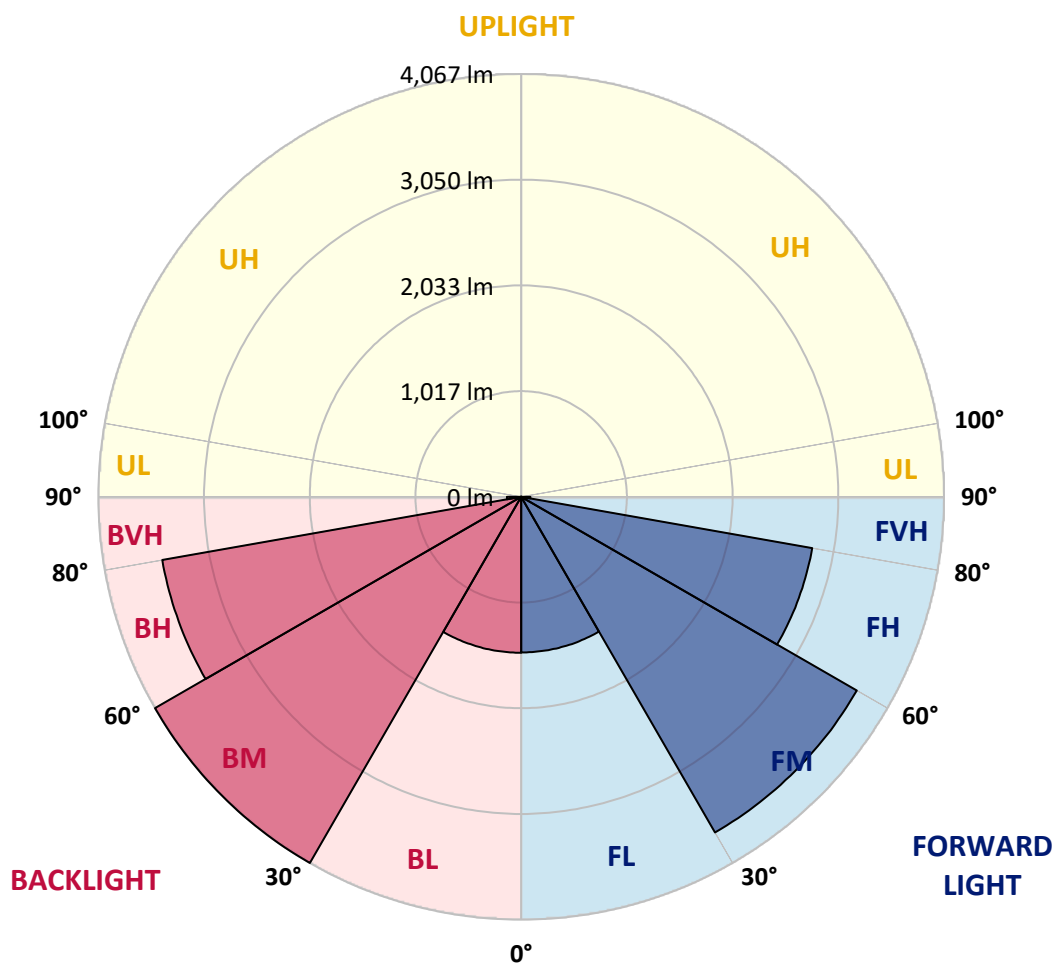
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1496.8	8.6			
FM	(30°-60°)	3727.6	21.5			
FH	(60°-80°)	2842.4	16.4			G2/5000
FVH	(80°-90°)	88.7	0.5			G1/100
BL	(0°-30°)	1499.9	8.6	B3/2500		
BM	(30°-60°)	4066.8	23.4	B3/5000		
BH	(60°-80°)	3505.0	20.2	B4/5000		G4/5000
BVH	(80°-90°)	137.8	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°	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6
2.5°	3351.0	3342.1	3349.9	3351.0	3349.9	3349.9	3339.9	3337.6	3324.3	3327.6	3326.5
5°	3396.7	3393.4	3399.0	3401.2	3403.4	3399.0	3391.2	3387.8	3378.9	3375.5	3374.4
7.5°	3439.1	3433.5	3442.4	3450.2	3455.8	3456.9	3458.0	3452.5	3452.5	3448.0	3448.0
10°	3474.8	3470.3	3484.8	3494.8	3512.7	3522.7	3533.8	3541.6	3546.1	3547.2	3546.1
12.5°	3490.4	3487.0	3510.4	3540.5	3574.0	3597.4	3625.3	3645.3	3650.9	3649.8	3655.4
15°	3463.6	3465.8	3501.5	3560.6	3631.9	3691.0	3730.0	3746.8	3751.2	3753.5	3754.6
17.5°	3391.2	3395.6	3446.9	3542.8	3667.6	3774.6	3832.6	3832.6	3823.7	3823.7	3822.6
20°	3275.2	3279.7	3346.6	3484.8	3668.7	3832.6	3915.1	3898.4	3864.9	3858.2	3851.6
22.5°	3114.7	3132.5	3206.1	3366.6	3620.8	3849.3	3966.4	3941.9	3889.5	3875.0	3864.9
25°	2933.0	2930.7	3018.8	3199.4	3504.9	3809.2	3980.9	3976.4	3920.7	3905.1	3887.2
27.5°	2725.6	2732.3	2813.7	2996.5	3327.6	3693.3	3956.3	4015.4	3969.7	3954.1	3937.4
30°	2512.7	2519.4	2596.3	2809.2	3125.8	3527.2	3906.2	4053.3	4035.5	4023.2	4012.1
32.5°	2298.7	2300.9	2392.3	2620.8	2955.3	3328.7	3830.4	4087.9	4112.4	4106.8	4102.4
35°	2098.0	2100.2	2199.5	2431.3	2786.9	3159.3	3739.0	4138.1	4217.2	4223.9	4228.3
37.5°	1902.9	1906.3	2007.7	2250.7	2620.8	3031.1	3637.5	4215.0	4364.4	4388.9	4393.3
40°	1709.0	1712.3	1809.3	2066.8	2452.5	2918.5	3559.5	4323.1	4562.8	4596.2	4630.8
42.5°	1523.9	1536.2	1618.7	1865.0	2265.2	2779.1	3526.0	4454.6	4798.0	4850.4	4889.4
45°	1351.1	1352.2	1445.9	1676.6	2043.4	2590.7	3503.7	4604.0	5061.1	5140.2	5193.7
47.5°	1166.1	1179.4	1277.5	1501.6	1836.0	2357.8	3432.4	4779.0	5347.6	5440.1	5548.2
50°	986.6	1005.5	1100.3	1322.1	1646.5	2117.0	3240.7	4984.2	5669.8	5790.2	5915.0
52.5°	813.8	812.7	913.0	1143.8	1455.9	1913.0	2929.6	5199.3	6042.1	6171.4	6306.3
55°	615.4	615.4	714.6	925.3	1249.7	1731.2	2596.3	5333.1	6387.7	6543.7	6690.9
57.5°	422.5	433.6	527.3	709.0	1034.5	1565.1	2341.0	5256.2	6651.9	6845.8	7020.9
60°	313.3	324.4	393.5	509.5	809.3	1368.9	2149.3	4893.9	6811.3	7068.8	7296.2
62.5°	270.9	278.7	344.5	408.0	583.0	1160.5	1979.8	4433.5	7040.9	7393.2	7709.8
65°	241.9	249.7	315.5	352.3	455.9	933.1	1885.1	4170.4	7315.2	7853.6	8312.9
67.5°	224.1	233.0	288.7	315.5	398.0	843.9	1811.5	4109.1	7312.9	7966.2	8552.6
69°	215.2	221.8	267.5	296.5	384.6	817.1	1652.1	3842.6	6830.2	7531.4	8120.0
70°	209.6	216.3	255.3	284.3	380.1	769.2	1504.9	3490.4	6280.7	6986.3	7583.8
72.5°	191.7	198.4	227.4	254.2	316.6	513.9	1049.0	2234.0	4488.1	4992.0	5675.3
75°	169.4	177.2	199.5	221.8	239.7	297.6	605.3	1159.4	2566.2	2948.6	3557.3
77.5°	138.2	146.0	169.4	205.1	202.9	226.3	393.5	712.3	1201.7	1490.5	1715.6
80°	113.7	119.3	139.3	207.3	166.1	189.5	318.8	584.1	846.1	935.3	988.8
82.5°	75.8	83.6	108.1	162.8	127.1	134.9	238.6	546.2	715.7	784.8	849.5
85°	35.7	39.0	65.8	87.0	76.9	72.5	136.0	385.7	532.9	565.2	589.7
87.5°	0.0	0.0	3.3	6.7	10.0	10.0	24.5	81.4	149.4	180.6	178.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6
2.5°	3322.0	3323.1	3322.0	3322.0	3320.9	3318.7	3318.7	3316.5	3317.6	3316.5	3318.7
5°	3373.3	3373.3	3370.0	3367.7	3371.1	3367.7	3368.9	3363.3	3363.3	3359.9	3355.5
7.5°	3446.9	3446.9	3448.0	3441.3	3445.8	3446.9	3443.5	3441.3	3439.1	3433.5	3434.6
10°	3545.0	3545.0	3548.3	3539.4	3543.9	3546.1	3547.2	3547.2	3545.0	3535.0	3536.1
12.5°	3654.2	3652.0	3653.1	3648.7	3653.1	3655.4	3657.6	3655.4	3655.4	3653.1	3652.0
15°	3753.5	3752.3	3754.6	3751.2	3752.3	3754.6	3761.3	3760.1	3759.0	3752.3	3752.3
17.5°	3821.5	3818.1	3815.9	3814.8	3814.8	3813.7	3814.8	3814.8	3811.4	3810.3	3810.3
20°	3847.1	3838.2	3832.6	3829.3	3824.8	3822.6	3820.3	3821.5	3819.2	3815.9	3817.0
22.5°	3851.6	3839.3	3828.1	3818.1	3809.2	3803.6	3798.0	3795.8	3790.2	3786.9	3786.9
25°	3872.7	3853.8	3835.9	3819.2	3805.8	3793.6	3781.3	3772.4	3765.7	3757.9	3755.7
27.5°	3919.6	3899.5	3878.3	3857.1	3839.3	3814.8	3798.0	3780.2	3764.6	3752.3	3743.4
30°	3992.0	3972.0	3950.8	3926.2	3902.8	3877.2	3849.3	3828.1	3805.8	3781.3	3767.9
32.5°	4087.9	4074.5	4053.3	4029.9	4008.7	3982.0	3948.5	3916.2	3895.0	3866.0	3844.9
35°	4225.0	4209.4	4202.7	4192.7	4171.5	4154.8	4118.0	4087.9	4067.8	4027.7	4012.1
37.5°	4412.3	4411.2	4416.7	4413.4	4416.7	4395.6	4378.8	4377.7	4348.7	4309.7	4271.8
40°	4667.6	4680.9	4711.0	4732.2	4752.3	4754.5	4777.9	4753.4	4756.8	4751.2	4712.2
42.5°	4958.5	5004.2	5039.9	5102.3	5150.3	5194.9	5225.0	5266.2	5297.4	5325.3	5332.0
45°	5282.9	5350.9	5433.4	5489.2	5582.8	5657.5	5760.1	5839.2	5921.7	6003.1	6032.1
47.5°	5635.2	5719.9	5811.3	5915.0	6033.2	6150.2	6308.5	6430.0	6562.7	6673.1	6771.2
50°	6024.3	6112.3	6234.9	6354.2	6517.0	6651.9	6859.2	7018.6	7232.7	7379.8	7506.9
52.5°	6430.0	6540.4	6677.5	6809.1	6975.2	7147.9	7378.7	7613.9	7871.4	8094.4	8279.4
55°	6826.9	6962.9	7094.4	7248.3	7432.2	7632.9	7893.7	8203.6	8524.7	8780.0	9025.2
57.5°	7180.3	7337.5	7492.4	7648.5	7836.9	8069.9	8363.1	8697.5	9065.4	9405.4	9742.0
60°	7508.0	7696.4	7885.9	8081.0	8297.3	8584.9	8937.2	9348.5	9824.5	10289.4	10729.7
62.5°	8026.4	8273.9	8509.1	8761.0	9021.9	9359.7	9775.5	10315.0	10861.3	11442.1	11893.6
65°	8728.7	9076.5	9384.2	9710.8	10048.6	10500.1	10997.3	11642.7	12425.3	13020.6	13745.2
67.5°	9077.6	9535.8	9931.5	10295.0	10713.0	11168.9	11759.8	12523.4	13358.4	14221.2	15029.4
69°	8667.4	9140.1	9578.2	9985.1	10407.6	10850.1	11467.7	12251.4	13134.3	14067.4	14856.6
70°	8135.6	8608.3	9075.4	9539.1	9924.9	10356.3	10976.1	11784.3	12666.1	13636.0	14418.5
72.5°	6232.7	6801.3	7223.8	7658.5	8105.5	8471.2	9186.9	9868.0	10786.6	11770.9	12632.7
75°	3987.6	4510.4	4971.9	5342.0	5779.0	6217.1	6745.5	7502.4	8077.7	8885.9	9584.9
77.5°	2049.0	2203.9	2648.7	2781.4	3084.6	3323.1	3614.1	3803.6	4271.8	4371.0	4783.5
80°	971.0	875.1	823.8	777.0	790.4	784.8	761.4	730.2	769.2	752.5	745.8
82.5°	846.1	754.7	602.0	511.7	442.6	375.7	323.3	296.5	299.9	308.8	312.1
85°	593.1	557.4	434.8	330.0	257.5	199.5	160.5	153.8	158.3	170.6	166.1
87.5°	171.7	179.5	158.3	110.4	76.9	55.7	43.5	49.1	46.8	45.7	47.9
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6
2.5°	3318.7	3317.6	3314.2	3310.9	3310.9	3308.7	3310.9	3312.0	3310.9	3310.9	3308.7
5°	3356.6	3357.7	3361.1	3354.4	3353.2	3354.4	3349.9	3348.8	3345.4	3348.8	3344.3
7.5°	3429.1	3432.4	3432.4	3427.9	3426.8	3430.2	3423.5	3421.3	3417.9	3416.8	3415.7
10°	3537.2	3540.5	3535.0	3531.6	3528.3	3532.7	3527.2	3527.2	3523.8	3520.5	3519.4
12.5°	3657.6	3655.4	3653.1	3655.4	3652.0	3652.0	3648.7	3646.4	3645.3	3644.2	3642.0
15°	3751.2	3759.0	3759.0	3761.3	3759.0	3759.0	3754.6	3755.7	3753.5	3752.3	3753.5
17.5°	3811.4	3813.7	3819.2	3822.6	3822.6	3823.7	3821.5	3823.7	3821.5	3821.5	3825.9
20°	3819.2	3821.5	3827.0	3832.6	3835.9	3838.2	3838.2	3841.5	3843.8	3846.0	3851.6
22.5°	3788.0	3791.4	3798.0	3808.1	3813.7	3815.9	3820.3	3825.9	3831.5	3835.9	3843.8
25°	3755.7	3756.8	3763.5	3773.5	3780.2	3785.8	3793.6	3800.3	3808.1	3817.0	3825.9
27.5°	3737.8	3736.7	3742.3	3752.3	3757.9	3765.7	3772.4	3782.4	3791.4	3802.5	3810.3
30°	3753.5	3744.5	3745.7	3750.1	3754.6	3760.1	3767.9	3776.9	3786.9	3796.9	3805.8
32.5°	3822.6	3802.5	3789.1	3785.8	3786.9	3788.0	3792.5	3798.0	3805.8	3813.7	3817.0
35°	3972.0	3937.4	3919.6	3905.1	3892.8	3882.8	3885.0	3883.9	3883.9	3890.6	3882.8
37.5°	4256.2	4212.7	4193.8	4168.2	4153.7	4116.9	4106.8	4104.6	4090.1	4090.1	4073.4
40°	4702.1	4676.5	4662.0	4638.6	4568.4	4577.3	4527.1	4528.2	4487.0	4491.4	4462.5
42.5°	5336.4	5339.8	5321.9	5306.3	5251.7	5227.2	5180.4	5113.5	5061.1	5060.0	5002.0
45°	6070.0	6110.1	6053.2	6073.3	6025.4	5959.6	5905.0	5819.1	5737.8	5712.1	5653.0
47.5°	6836.9	6902.7	6859.2	6867.0	6843.6	6750.0	6676.4	6570.5	6464.6	6393.2	6357.6
50°	7656.3	7699.8	7698.6	7677.5	7666.3	7574.9	7456.7	7376.5	7298.4	7202.6	7171.4
52.5°	8398.7	8500.2	8568.2	8552.6	8520.2	8465.6	8360.8	8291.7	8176.9	8163.5	8176.9
55°	9193.6	9325.1	9394.2	9477.8	9478.9	9468.9	9425.4	9399.8	9292.8	9305.0	9289.4
57.5°	9946.0	10138.9	10244.8	10423.2	10484.5	10565.9	10535.8	10569.2	10504.5	10546.9	10534.6
60°	10966.1	11233.6	11409.7	11653.9	11767.6	11971.6	12011.7	12036.2	12071.9	12158.9	12109.8
62.5°	12249.2	12641.6	13007.2	13339.4	13448.7	13755.2	13805.4	13997.1	14007.2	14066.3	13958.1
65°	14349.4	14827.6	15230.1	15628.1	15857.7	16216.7	16361.6	16733.9	16620.2	16668.1	16437.4
67.5°	15725.0	16281.3	16820.9	17197.7	17578.9	17945.7	18209.9	18450.7	18448.4	18401.6	18196.5
69°	15603.5	16223.3	16755.1	17260.1	17661.4	18038.2	18355.9	18512.0	18566.6	18498.6	18352.6
70°	15183.3	15819.8	16470.8	16886.6	17323.6	17737.2	18065.0	18235.5	18273.4	18225.5	18099.5
72.5°	13241.3	13852.2	14570.1	14948.0	15476.4	15775.2	16226.7	16447.4	16486.4	16425.1	16342.6
75°	10334.0	10444.3	11175.6	11416.4	11799.9	12144.4	12425.3	12354.0	12553.5	12514.5	12483.3
77.5°	4868.2	4573.9	5047.7	5268.4	5152.5	4843.7	5293.0	4968.6	5183.7	5463.5	5392.2
80°	802.6	800.4	821.6	868.4	812.7	862.8	861.7	837.2	839.4	899.6	868.4
82.5°	308.8	315.5	318.8	327.7	327.7	328.9	334.4	341.1	335.5	346.7	344.5
85°	167.2	178.4	168.3	160.5	166.1	169.4	173.9	179.5	173.9	190.6	181.7
87.5°	43.5	45.7	40.1	40.1	39.0	35.7	35.7	37.9	41.2	49.1	53.5
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-F08-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6
2.5°	3304.2	3305.3	3306.4	3303.1	3300.9	3300.9	3299.7	3297.5	3296.4	3296.4	3296.4
5°	3342.1	3344.3	3338.8	3337.6	3335.4	3333.2	3333.2	3331.0	3332.1	3332.1	3326.5
7.5°	3417.9	3414.6	3407.9	3403.4	3407.9	3400.1	3396.7	3399.0	3396.7	3397.8	3395.6
10°	3519.4	3519.4	3511.5	3516.0	3510.4	3501.5	3504.9	3501.5	3499.3	3491.5	3495.9
12.5°	3645.3	3642.0	3637.5	3627.5	3624.1	3623.0	3613.0	3614.1	3610.8	3608.5	3605.2
15°	3755.7	3754.6	3744.5	3739.0	3737.8	3733.4	3728.9	3726.7	3721.1	3720.0	3717.8
17.5°	3829.3	3825.9	3821.5	3815.9	3815.9	3809.2	3807.0	3801.4	3800.3	3796.9	3793.6
20°	3853.8	3854.9	3850.4	3846.0	3843.8	3839.3	3835.9	3831.5	3829.3	3824.8	3821.5
22.5°	3848.2	3848.2	3843.8	3842.6	3838.2	3831.5	3827.0	3821.5	3815.9	3810.3	3803.6
25°	3830.4	3829.3	3825.9	3820.3	3814.8	3804.7	3795.8	3786.9	3779.1	3772.4	3762.4
27.5°	3814.8	3812.5	3805.8	3798.0	3786.9	3775.7	3759.0	3746.8	3736.7	3727.8	3716.7
30°	3809.2	3801.4	3791.4	3779.1	3765.7	3749.0	3731.2	3715.6	3704.4	3695.5	3691.0
32.5°	3815.9	3805.8	3790.2	3774.6	3757.9	3737.8	3720.0	3706.6	3696.6	3694.4	3694.4
35°	3877.2	3860.5	3839.3	3817.0	3795.8	3779.1	3766.8	3765.7	3759.0	3766.8	3779.1
37.5°	4056.7	4042.2	4009.9	3980.9	3966.4	3958.6	3947.4	3949.7	3934.0	3958.6	3978.6
40°	4437.9	4420.1	4382.2	4358.8	4329.8	4301.9	4324.2	4317.5	4328.7	4324.2	4345.4
42.5°	4994.2	4976.4	4916.2	4907.2	4895.0	4883.8	4883.8	4874.9	4870.5	4886.1	4868.2
45°	5670.9	5635.2	5612.9	5639.7	5602.9	5614.0	5653.0	5600.6	5612.9	5540.4	5473.6
47.5°	6373.2	6369.8	6364.3	6396.6	6402.2	6418.9	6440.1	6386.6	6289.6	6234.9	6098.9
50°	7181.4	7216.0	7229.3	7260.5	7273.9	7286.2	7252.7	7173.6	7009.7	6864.8	6704.3
52.5°	8163.5	8103.3	8185.8	8215.9	8202.5	8153.5	8033.1	7936.1	7709.8	7501.3	7252.7
55°	9307.3	9321.8	9263.8	9240.4	9194.7	9058.7	8892.6	8674.1	8387.6	8115.6	7801.2
57.5°	10472.2	10466.6	10376.3	10249.3	10094.3	9930.4	9683.0	9369.7	9035.3	8669.6	8289.5
60°	11889.1	11883.5	11700.7	11483.3	11262.6	10998.4	10610.4	10233.7	9785.5	9305.0	8852.4
62.5°	13750.8	13511.1	13331.6	13007.2	12666.1	12320.5	11795.5	11294.9	10696.3	10089.8	9561.4
65°	16136.4	15741.8	15537.8	15067.3	14538.9	13999.4	13465.4	12807.7	12001.7	11268.2	10622.7
67.5°	17901.1	17539.9	17166.4	16697.1	16117.4	15515.5	14784.2	13955.9	13040.7	12218.0	11514.5
69°	18056.0	17718.3	17270.1	16799.7	16251.2	15596.8	14798.7	13871.2	12943.7	12110.9	11418.7
70°	17820.8	17461.9	16990.3	16500.9	15887.8	15270.2	14434.1	13467.6	12539.0	11704.0	11028.5
72.5°	16066.2	15716.1	15214.5	14629.2	14000.5	13472.1	12678.4	11670.6	10660.6	9889.2	9363.0
75°	12216.8	12139.9	11784.3	11443.2	10948.2	10358.5	9632.8	8955.0	8126.7	7310.7	6820.2
77.5°	5212.7	5389.9	5575.0	5601.8	5619.6	5437.9	5325.3	5154.7	4600.7	4348.7	4089.0
80°	963.2	860.6	918.6	925.3	963.2	983.2	1056.8	1253.0	1275.3	1323.2	1382.3
82.5°	342.2	347.8	356.7	360.1	363.4	376.8	427.0	511.7	588.6	688.9	822.7
85°	194.0	197.3	205.1	211.8	216.3	229.6	257.5	307.7	383.5	498.3	675.6
87.5°	59.1	66.9	71.3	80.3	83.6	85.8	98.1	131.5	169.4	250.8	365.6
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-F08-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6
2.5°	3296.4	3295.3	3293.1	3290.8	3291.9	3289.7	3283.0	3280.8	3273.0	3267.4	3263.0
5°	3326.5	3325.4	3320.9	3322.0	3320.9	3309.8	3302.0	3288.6	3280.8	3268.5	3264.1
7.5°	3388.9	3387.8	3380.0	3383.3	3381.1	3364.4	3351.0	3329.8	3318.7	3303.1	3290.8
10°	3482.6	3482.6	3473.6	3474.8	3474.8	3452.5	3429.1	3393.4	3367.7	3343.2	3322.0
12.5°	3596.3	3591.8	3590.7	3585.1	3580.7	3556.1	3520.5	3472.5	3424.6	3384.5	3355.5
15°	3711.1	3704.4	3701.1	3694.4	3688.8	3666.5	3618.6	3559.5	3494.8	3430.2	3382.2
17.5°	3785.8	3781.3	3774.6	3772.4	3764.6	3742.3	3708.9	3649.8	3569.5	3479.2	3406.8
20°	3813.7	3805.8	3801.4	3796.9	3792.5	3776.9	3776.9	3739.0	3649.8	3522.7	3412.3
22.5°	3795.8	3791.4	3784.7	3781.3	3776.9	3779.1	3822.6	3817.0	3714.4	3532.7	3372.2
25°	3754.6	3749.0	3743.4	3743.4	3742.3	3765.7	3870.5	3885.0	3733.4	3483.7	3284.1
27.5°	3712.2	3704.4	3706.6	3707.7	3713.3	3763.5	3922.9	3902.8	3682.1	3365.5	3132.5
30°	3686.6	3686.6	3692.1	3701.1	3712.2	3800.3	3964.1	3862.7	3549.4	3187.1	2931.9
32.5°	3697.7	3708.9	3721.1	3743.4	3760.1	3881.7	3978.6	3759.0	3356.6	2966.4	2722.3
35°	3796.9	3810.3	3833.7	3868.3	3888.3	3998.7	3978.6	3607.4	3132.5	2776.9	2506.0
37.5°	4013.2	4026.6	4054.4	4081.2	4101.3	4145.9	3961.9	3414.6	2945.2	2580.7	2312.0
40°	4361.0	4380.0	4400.0	4395.6	4382.2	4338.7	3928.5	3235.1	2772.5	2409.0	2121.4
42.5°	4850.4	4832.6	4830.3	4786.9	4742.3	4556.1	3903.9	3118.0	2624.2	2228.4	1931.9
45°	5415.6	5343.1	5268.4	5210.5	5142.5	4794.7	3897.3	3023.3	2460.3	2027.8	1725.7
47.5°	5984.1	5868.2	5723.3	5633.0	5522.6	5048.8	3917.3	2896.2	2249.6	1809.3	1532.8
50°	6541.5	6352.0	6172.5	6064.4	5939.5	5340.9	3949.7	2682.2	1997.7	1610.9	1356.7
52.5°	7057.7	6813.5	6629.6	6502.5	6349.8	5680.9	3920.7	2401.2	1779.2	1420.2	1189.5
55°	7548.2	7278.4	7087.8	6954.0	6774.5	6022.0	3711.1	2145.9	1570.7	1234.1	1001.1
57.5°	7977.3	7718.7	7520.3	7338.6	7187.0	6318.6	3297.5	1935.3	1370.1	1021.1	797.1
60°	8479.0	8188.0	7952.8	7758.8	7580.5	6471.3	2833.8	1748.0	1156.0	790.4	576.3
62.5°	9155.7	8821.2	8549.2	8327.4	8094.4	6504.7	2517.2	1560.7	917.5	571.9	419.2
65°	10159.0	9746.5	9406.5	9101.0	8785.6	6366.5	2361.1	1356.7	682.2	424.7	351.2
67.5°	10956.0	10528.0	10134.4	9742.0	9338.5	6110.1	2326.5	1168.3	523.9	361.2	315.5
69°	10859.0	10451.0	10089.8	9665.1	9218.1	5787.9	2292.0	1095.8	478.2	335.5	298.8
70°	10485.6	10098.8	9732.0	9386.4	8839.1	5429.0	2200.6	1055.7	460.4	323.3	286.5
72.5°	8860.2	8412.1	8056.5	7626.2	7049.8	4034.4	1668.8	853.9	422.5	295.4	258.6
75°	6462.4	6091.1	5736.6	5260.6	4699.9	2334.3	1039.0	488.3	309.9	267.5	234.1
77.5°	3773.5	3689.9	3347.7	3034.4	2479.3	1188.4	596.4	292.1	240.8	243.0	206.2
80°	1420.2	1512.8	1547.3	1439.2	1329.9	820.5	433.6	237.4	209.6	239.7	175.0
82.5°	1035.6	1201.7	1221.8	1170.5	1089.1	764.7	346.7	190.6	170.6	257.5	150.5
85°	864.0	956.5	971.0	917.5	890.7	647.7	241.9	133.8	124.9	185.1	112.6
87.5°	437.0	460.4	472.7	428.1	430.3	302.1	97.0	56.9	68.0	79.1	62.4
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: P158043

CATALOG NUMBER: VST-F08-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3298.6	3298.6
2.5°	3252.9	3259.6
5°	3257.4	3257.4
7.5°	3283.0	3283.0
10°	3310.9	3312.0
12.5°	3336.5	3335.4
15°	3356.6	3353.2
17.5°	3368.9	3365.5
20°	3356.6	3351.0
22.5°	3294.2	3278.6
25°	3180.5	3160.4
27.5°	3030.0	3016.6
30°	2833.8	2813.7
32.5°	2604.1	2594.1
35°	2384.5	2372.2
37.5°	2183.8	2180.5
40°	2014.4	1996.6
42.5°	1816.0	1808.2
45°	1614.2	1609.7
47.5°	1424.7	1420.2
50°	1249.7	1240.7
52.5°	1078.0	1063.5
55°	887.4	877.3
57.5°	681.1	672.2
60°	479.4	469.3
62.5°	341.1	330.0
65°	284.3	275.3
67.5°	257.5	247.5
69°	245.3	236.3
70°	237.4	230.8
72.5°	220.7	216.3
75°	201.8	198.4
77.5°	177.2	171.7
80°	148.3	142.7
82.5°	124.9	119.3
85°	83.6	75.8
87.5°	37.9	33.4
90°	0.0	0.0

(END OF REPORT)