

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: P158044

Luminaire Tested: **VST-F08-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158044
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18792 lumens
Efficiency: N/A
Efficacy: 91.9 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

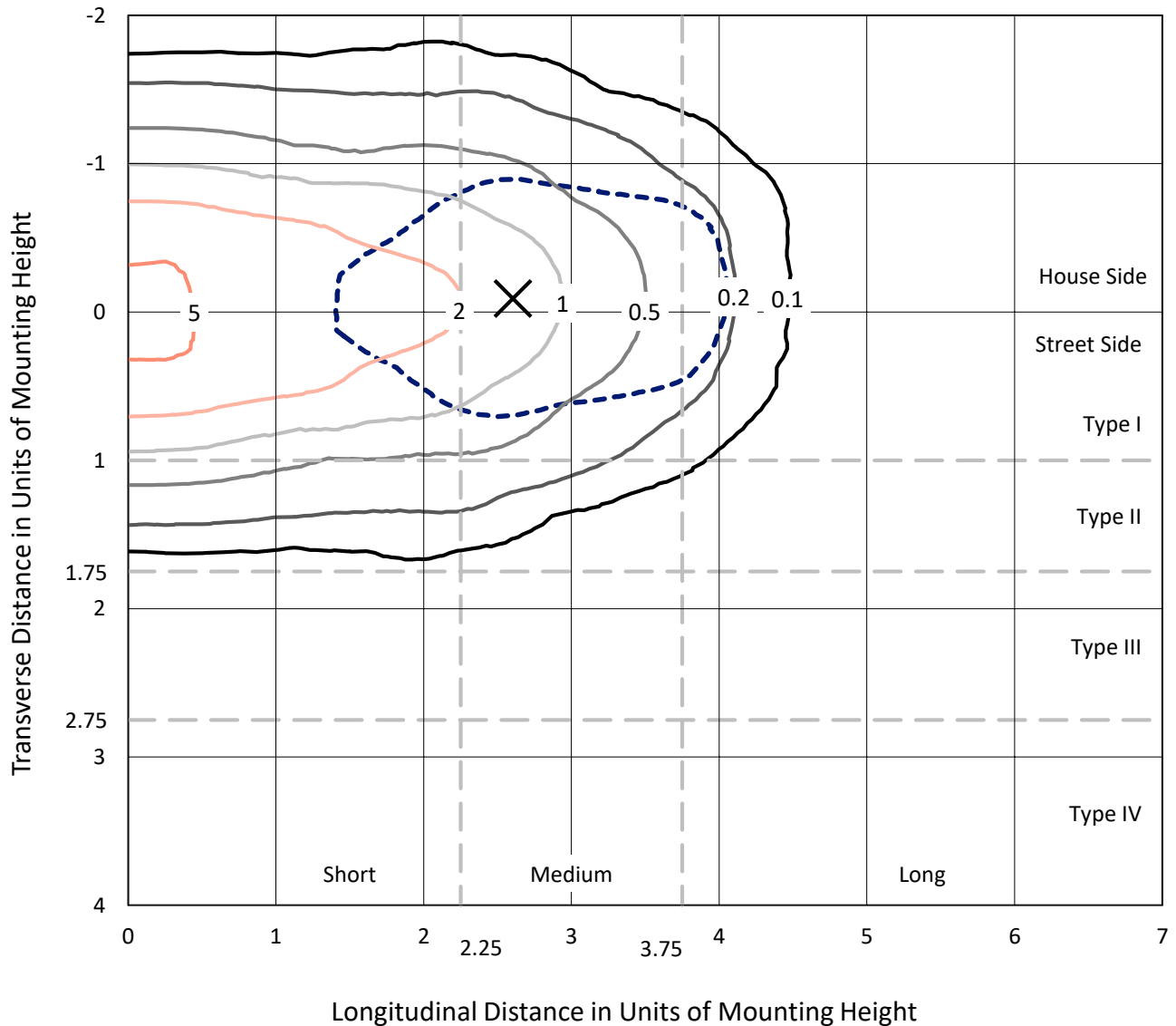
Input Watts (W): 204.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

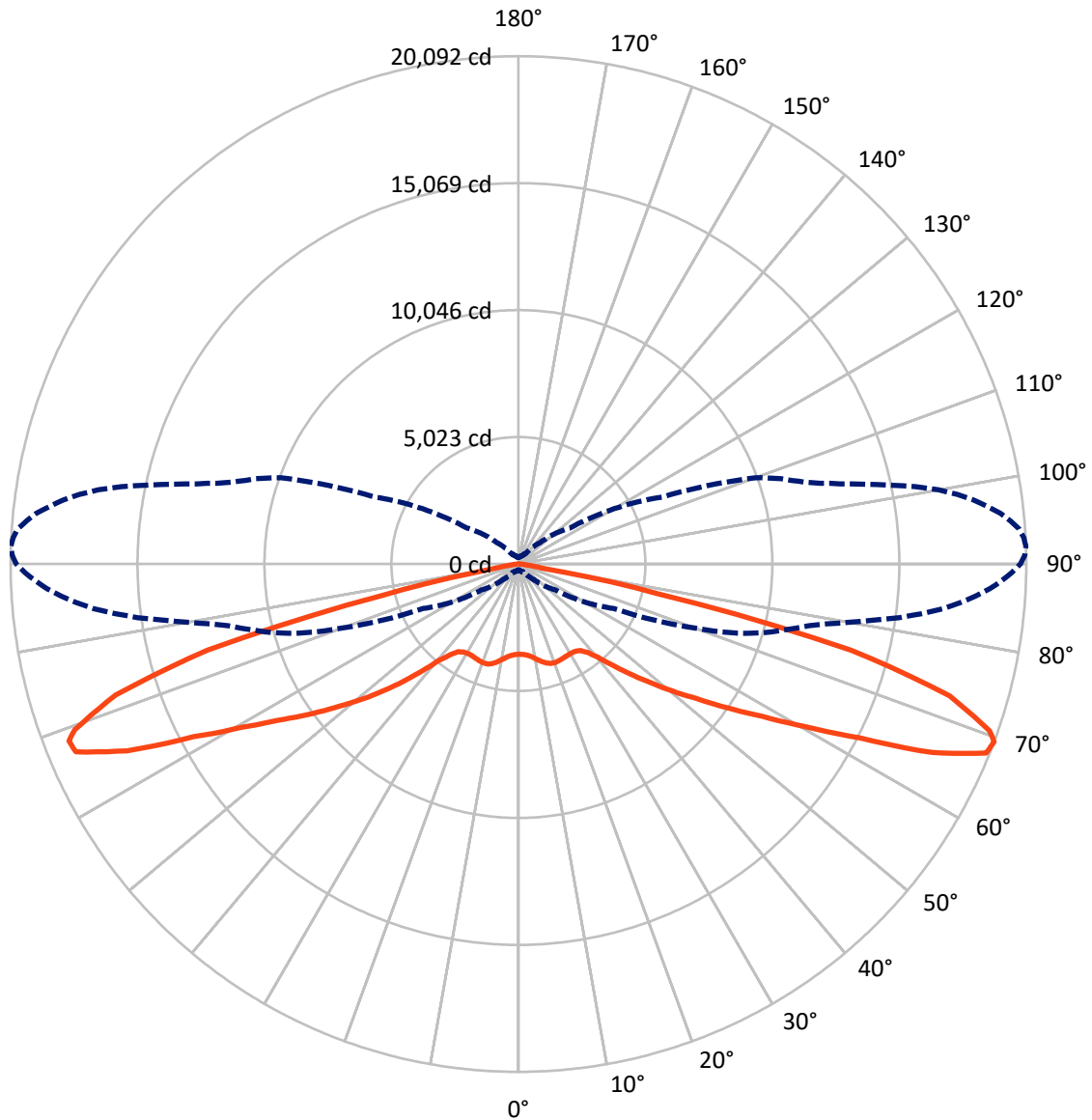
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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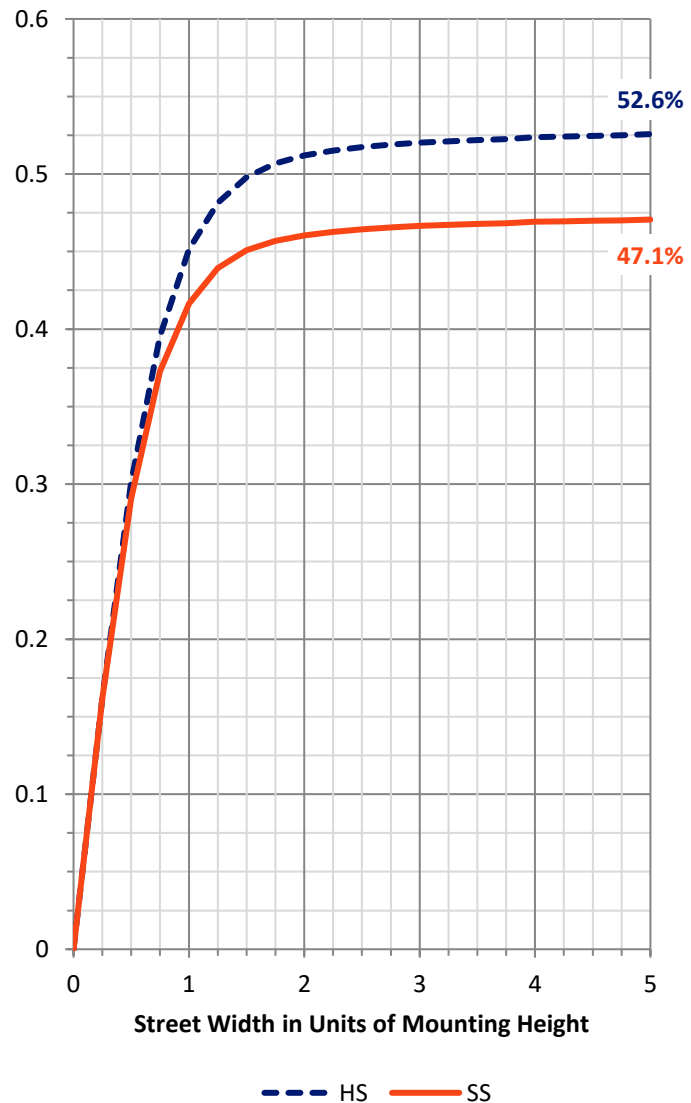
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9966.4	0.0	9966.4
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	8825.6	0.0	8825.6
	% Fixture	47.0	0.0	47.0
Total	Lumens	18792.0	0.0	18792.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	1.9
10°-20°	1103.4	5.9
20°-30°	1790.2	9.5
30°-40°	2231.1	11.9
40°-50°	2777.9	14.8
50°-60°	3425.9	18.2
60°-70°	4254.8	22.6
70°-80°	2614.3	13.9
80°-90°	245.0	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°	18792.0	100.0
0°-180°	18792.0	100.0



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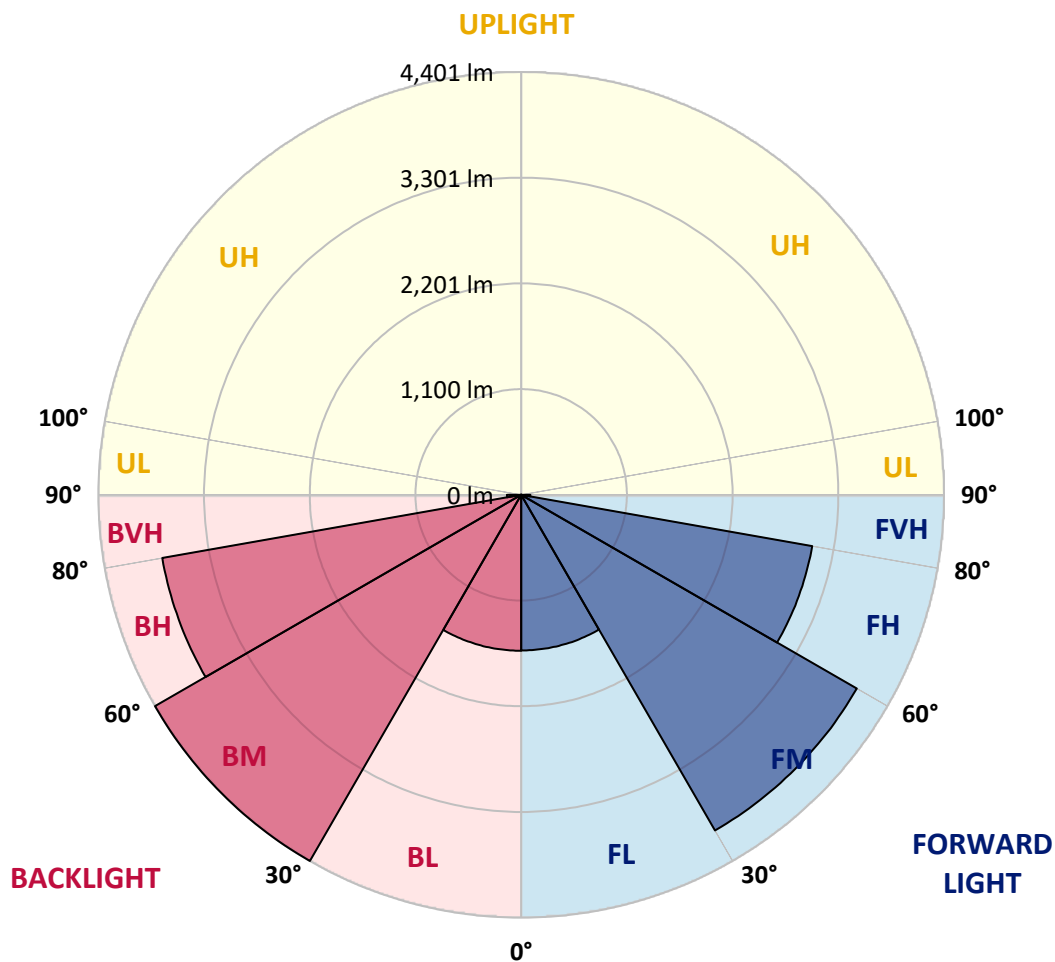
CATALOG NUMBER: VST-F08-LED-E-U-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.8	8.6			
FM (30°-60°)	4033.9	21.5			
FH (60°-80°)	3076.0	16.4			G2/5000
FVH (80°-90°)	95.9	0.5			G1/100
BL (0°-30°)	1623.2	8.6	B3/2500		
BM (30°-60°)	4401.1	23.4	B3/5000		
BH (60°-80°)	3793.1	20.2	B4/5000		G4/5000
BVH (80°-90°)	149.1	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°	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7
2.5°	3626.4	3616.8	3625.2	3626.4	3625.2	3625.2	3614.3	3611.9	3597.5	3601.1	3599.9
5°	3675.9	3672.2	3678.3	3680.7	3683.1	3678.3	3669.8	3666.2	3656.6	3652.9	3651.7
7.5°	3721.7	3715.7	3725.3	3733.8	3739.8	3741.0	3742.2	3736.2	3736.2	3731.4	3731.4
10°	3760.3	3755.5	3771.2	3782.0	3801.3	3812.2	3824.3	3832.7	3837.5	3838.7	3837.5
12.5°	3777.2	3773.6	3798.9	3831.5	3867.7	3893.0	3923.2	3944.9	3950.9	3949.7	3955.8
15°	3748.3	3750.7	3789.3	3853.2	3930.4	3994.4	4036.6	4054.7	4059.5	4061.9	4063.1
17.5°	3669.8	3674.7	3730.2	3833.9	3969.0	4084.8	4147.6	4147.6	4137.9	4137.9	4136.7
20°	3544.4	3549.2	3621.6	3771.2	3970.2	4147.6	4236.8	4218.7	4182.6	4175.3	4168.1
22.5°	3370.7	3390.0	3469.6	3643.3	3918.4	4165.7	4292.3	4265.8	4209.1	4193.4	4182.6
25°	3174.0	3171.6	3266.9	3462.3	3792.9	4122.2	4308.0	4303.2	4242.9	4226.0	4206.7
27.5°	2949.6	2956.9	3044.9	3242.8	3601.1	3996.8	4281.5	4345.4	4296.0	4279.1	4261.0
30°	2719.2	2726.4	2809.7	3040.1	3382.7	3817.0	4227.2	4386.4	4367.1	4353.9	4341.8
32.5°	2487.6	2490.0	2588.9	2836.2	3198.1	3602.3	4145.2	4423.8	4450.4	4444.3	4439.5
35°	2270.4	2272.8	2380.2	2631.1	3016.0	3418.9	4046.2	4478.1	4563.8	4571.0	4575.8
37.5°	2059.3	2062.9	2172.7	2435.7	2836.2	3280.2	3936.4	4561.4	4723.0	4749.6	4754.4
40°	1849.4	1853.0	1958.0	2236.6	2654.1	3158.3	3852.0	4678.4	4937.8	4973.9	5011.3
42.5°	1649.1	1662.4	1751.7	2018.3	2451.4	3007.5	3815.8	4820.7	5192.3	5249.0	5291.2
45°	1462.1	1463.4	1564.7	1814.4	2211.3	2803.6	3791.7	4982.4	5477.0	5562.7	5620.6
47.5°	1261.9	1276.4	1382.5	1625.0	1986.9	2551.5	3714.5	5171.8	5787.1	5887.2	6004.2
50°	1067.7	1088.2	1190.7	1430.8	1781.8	2290.9	3507.0	5393.8	6135.7	6266.0	6401.1
52.5°	880.7	879.5	988.0	1237.8	1575.5	2070.2	3170.4	5626.6	6538.6	6678.6	6824.5
55°	665.9	665.9	773.3	1001.3	1352.4	1873.5	2809.7	5771.4	6912.6	7081.5	7240.8
57.5°	457.2	469.3	570.6	767.3	1119.5	1693.8	2533.4	5688.1	7198.5	7408.4	7597.8
60°	339.0	351.1	425.9	551.3	875.8	1481.4	2325.9	5296.1	7371.0	7649.7	7895.8
62.5°	293.2	301.6	372.8	441.5	630.9	1255.9	2142.5	4797.8	7619.6	8000.8	8343.4
65°	261.8	270.2	341.4	381.2	493.4	1009.7	2040.0	4513.1	7916.3	8499.0	8996.0
67.5°	242.5	252.1	312.5	341.4	430.7	913.2	1960.4	4446.8	7913.9	8620.9	9255.4
69°	232.8	240.1	289.5	320.9	416.2	884.3	1787.9	4158.4	7391.5	8150.4	8787.3
70°	226.8	234.0	276.3	307.6	411.4	832.4	1628.6	3777.2	6796.8	7560.4	8207.1
72.5°	207.5	214.7	246.1	275.1	342.6	556.1	1135.2	2417.6	4856.9	5402.2	6141.7
75°	183.4	191.8	215.9	240.1	259.4	322.1	655.1	1254.6	2777.1	3190.9	3849.6
77.5°	149.6	158.0	183.4	222.0	219.6	244.9	425.9	770.9	1300.5	1612.9	1856.6
80°	123.1	129.1	150.8	224.4	179.8	205.1	345.0	632.1	915.6	1012.2	1070.1
82.5°	82.0	90.5	117.0	176.1	137.5	146.0	258.2	591.1	774.5	849.3	919.3
85°	38.6	42.2	71.2	94.1	83.2	78.4	147.2	417.4	576.7	611.6	638.2
87.5°	0.0	0.0	3.6	7.2	10.9	10.9	26.5	88.1	161.7	195.4	193.0
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7
2.5°	3595.0	3596.2	3595.0	3595.0	3593.8	3591.4	3591.4	3589.0	3590.2	3589.0	3591.4
5°	3650.5	3650.5	3646.9	3644.5	3648.1	3644.5	3645.7	3639.7	3639.7	3636.1	3631.2
7.5°	3730.2	3730.2	3731.4	3724.1	3729.0	3730.2	3726.5	3724.1	3721.7	3715.7	3716.9
10°	3836.3	3836.3	3839.9	3830.3	3835.1	3837.5	3838.7	3838.7	3836.3	3825.5	3826.7
12.5°	3954.5	3952.1	3953.3	3948.5	3953.3	3955.8	3958.2	3955.8	3955.8	3953.3	3952.1
15°	4061.9	4060.7	4063.1	4059.5	4060.7	4063.1	4070.4	4069.2	4067.9	4060.7	4060.7
17.5°	4135.5	4131.9	4129.5	4128.3	4128.3	4127.1	4128.3	4128.3	4124.6	4123.4	4123.4
20°	4163.3	4153.6	4147.6	4143.9	4139.1	4136.7	4134.3	4135.5	4133.1	4129.5	4130.7
22.5°	4168.1	4154.8	4142.7	4131.9	4122.2	4116.2	4110.2	4107.8	4101.7	4098.1	4098.1
25°	4191.0	4170.5	4151.2	4133.1	4118.6	4105.3	4092.1	4082.4	4075.2	4066.7	4064.3
27.5°	4241.7	4220.0	4197.0	4174.1	4154.8	4128.3	4110.2	4090.9	4074.0	4060.7	4051.1
30°	4320.1	4298.4	4275.4	4248.9	4223.6	4195.8	4165.7	4142.7	4118.6	4092.1	4077.6
32.5°	4423.8	4409.4	4386.4	4361.1	4338.2	4309.2	4273.0	4238.0	4215.1	4183.8	4160.8
35°	4572.2	4555.3	4548.1	4537.2	4514.3	4496.2	4456.4	4423.8	4402.1	4358.7	4341.8
37.5°	4774.9	4773.7	4779.7	4776.1	4779.7	4756.8	4738.7	4737.5	4706.1	4663.9	4622.9
40°	5051.2	5065.6	5098.2	5121.1	5142.8	5145.3	5170.6	5144.0	5147.7	5141.6	5099.4
42.5°	5366.0	5415.5	5454.1	5521.6	5573.5	5621.8	5654.3	5699.0	5732.8	5762.9	5770.2
45°	5717.1	5790.7	5879.9	5940.3	6041.6	6122.4	6233.4	6319.1	6408.3	6496.4	6527.8
47.5°	6098.3	6190.0	6288.9	6401.1	6529.0	6655.7	6827.0	6958.5	7102.0	7221.4	7327.6
50°	6519.3	6614.6	6747.3	6876.4	7052.6	7198.5	7422.9	7595.4	7827.1	7986.3	8123.8
52.5°	6958.5	7077.9	7226.3	7368.6	7548.4	7735.4	7985.1	8239.6	8518.3	8759.6	8959.9
55°	7387.9	7535.1	7677.5	7843.9	8043.0	8260.1	8542.4	8877.8	9225.3	9501.5	9766.9
57.5°	7770.4	7940.5	8108.1	8277.0	8480.9	8733.1	9050.3	9412.3	9810.4	10178.3	10542.6
60°	8125.0	8328.9	8534.0	8745.1	8979.2	9290.4	9671.6	10116.8	10631.9	11135.0	11611.5
62.5°	8686.0	8953.8	9208.4	9481.0	9763.3	10128.8	10578.8	11162.7	11753.9	12382.4	12871.0
65°	9446.0	9822.4	10155.4	10508.9	10874.4	11363.0	11901.0	12599.5	13446.4	14090.6	14874.8
67.5°	9823.6	10319.5	10747.7	11141.0	11593.4	12086.8	12726.2	13552.6	14456.2	15389.9	16264.5
69°	9379.7	9891.2	10365.3	10805.6	11262.9	11741.8	12410.1	13258.2	14213.7	15223.4	16077.6
70°	8804.2	9315.7	9821.2	10323.1	10740.5	11207.4	11878.1	12752.7	13707.0	14756.6	15603.4
72.5°	6744.9	7360.2	7817.4	8287.9	8771.7	9167.4	9941.9	10679.0	11673.0	12738.3	13670.8
75°	4315.3	4881.1	5380.5	5781.0	6253.9	6728.0	7299.9	8119.0	8741.5	9616.1	10372.5
77.5°	2217.3	2385.0	2866.4	3009.9	3338.1	3596.2	3911.1	4116.2	4622.9	4730.3	5176.6
80°	1050.8	947.0	891.5	840.9	855.3	849.3	824.0	790.2	832.4	814.3	807.1
82.5°	915.6	816.7	651.5	553.7	478.9	406.6	349.9	320.9	324.5	334.2	337.8
85°	641.8	603.2	470.5	357.1	278.7	215.9	173.7	166.5	171.3	184.6	179.8
87.5°	185.8	194.2	171.3	119.4	83.2	60.3	47.0	53.1	50.7	49.5	51.9
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°	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7
2.5°	3591.4	3590.2	3586.6	3583.0	3583.0	3580.6	3583.0	3584.2	3583.0	3583.0	3580.6
5°	3632.4	3633.6	3637.3	3630.0	3628.8	3630.0	3625.2	3624.0	3620.4	3624.0	3619.2
7.5°	3710.9	3714.5	3714.5	3709.6	3708.4	3712.1	3704.8	3702.4	3698.8	3697.6	3696.4
10°	3827.9	3831.5	3825.5	3821.8	3818.2	3823.0	3817.0	3817.0	3813.4	3809.8	3808.6
12.5°	3958.2	3955.8	3953.3	3955.8	3952.1	3952.1	3948.5	3946.1	3944.9	3943.7	3941.3
15°	4059.5	4067.9	4067.9	4070.4	4067.9	4067.9	4063.1	4064.3	4061.9	4060.7	4061.9
17.5°	4124.6	4127.1	4133.1	4136.7	4136.7	4137.9	4135.5	4137.9	4135.5	4135.5	4140.3
20°	4133.1	4135.5	4141.5	4147.6	4151.2	4153.6	4153.6	4157.2	4159.6	4162.0	4168.1
22.5°	4099.3	4102.9	4110.2	4121.0	4127.1	4129.5	4134.3	4140.3	4146.4	4151.2	4159.6
25°	4064.3	4065.5	4072.8	4083.6	4090.9	4096.9	4105.3	4112.6	4121.0	4130.7	4140.3
27.5°	4045.0	4043.8	4049.8	4060.7	4066.7	4075.2	4082.4	4093.3	4102.9	4115.0	4123.4
30°	4061.9	4052.3	4053.5	4058.3	4063.1	4069.2	4077.6	4087.2	4098.1	4109.0	4118.6
32.5°	4136.7	4115.0	4100.5	4096.9	4098.1	4099.3	4104.1	4110.2	4118.6	4127.1	4130.7
35°	4298.4	4261.0	4241.7	4226.0	4212.7	4201.9	4204.3	4203.1	4203.1	4210.3	4201.9
37.5°	4606.0	4558.9	4538.4	4510.7	4495.0	4455.2	4444.3	4441.9	4426.2	4426.2	4408.1
40°	5088.6	5060.8	5045.1	5019.8	4943.8	4953.4	4899.1	4900.4	4855.7	4860.5	4829.2
42.5°	5775.0	5778.6	5759.3	5742.4	5683.3	5656.8	5606.1	5533.7	5477.0	5475.8	5413.1
45°	6568.8	6612.2	6550.7	6572.4	6520.5	6449.4	6390.2	6297.4	6209.3	6181.5	6117.6
47.5°	7398.8	7470.0	7422.9	7431.4	7406.0	7304.7	7225.1	7110.5	6995.9	6918.6	6880.0
50°	8285.5	8332.5	8331.3	8308.4	8296.3	8197.4	8069.5	7982.7	7898.2	7794.5	7760.7
52.5°	9088.9	9198.7	9272.3	9255.4	9220.4	9161.3	9047.9	8973.1	8848.9	8834.4	8848.9
55°	9949.1	10091.4	10166.2	10256.7	10257.9	10247.1	10200.0	10172.3	10056.5	10069.7	10052.8
57.5°	10763.4	10972.1	11086.7	11279.7	11346.1	11434.2	11401.6	11437.8	11367.8	11413.7	11400.4
60°	11867.3	12156.8	12347.4	12611.6	12734.6	12955.4	12998.8	13025.4	13064.0	13158.1	13105.0
62.5°	13255.8	13680.5	14076.2	14435.7	14553.9	14885.6	14939.9	15147.4	15158.3	15222.2	15105.2
65°	15528.6	16046.2	16481.7	16912.4	17160.9	17549.3	17706.2	18109.1	17986.1	18037.9	17788.2
67.5°	17017.3	17619.3	18203.2	18611.0	19023.6	19420.5	19706.4	19967.0	19964.5	19913.9	19691.9
69°	16885.8	17556.6	18132.0	18678.5	19112.8	19520.6	19864.4	20033.3	20092.4	20018.8	19860.8
70°	16431.0	17119.9	17824.4	18274.4	18747.3	19194.9	19549.5	19734.1	19775.1	19723.3	19586.9
72.5°	14329.5	14990.6	15767.5	16176.5	16748.3	17071.6	17560.2	17799.1	17841.3	17774.9	17685.7
75°	11183.2	11302.7	12094.1	12354.6	12769.6	13142.4	13446.4	13369.2	13585.2	13542.9	13509.2
77.5°	5268.3	4949.8	5462.5	5701.4	5575.9	5241.8	5727.9	5376.9	5609.7	5912.5	5835.3
80°	868.6	866.2	889.1	939.8	879.5	933.7	932.5	906.0	908.4	973.6	939.8
82.5°	334.2	341.4	345.0	354.7	354.7	355.9	361.9	369.2	363.1	375.2	372.8
85°	181.0	193.0	182.2	173.7	179.8	183.4	188.2	194.2	188.2	206.3	196.6
87.5°	47.0	49.5	43.4	43.4	42.2	38.6	38.6	41.0	44.6	53.1	57.9
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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CATALOG NUMBER: VST-F08-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7
2.5°	3575.7	3576.9	3578.2	3574.5	3572.1	3572.1	3570.9	3568.5	3567.3	3567.3	3567.3
5°	3616.8	3619.2	3613.1	3611.9	3609.5	3607.1	3607.1	3604.7	3605.9	3605.9	3599.9
7.5°	3698.8	3695.2	3687.9	3683.1	3687.9	3679.5	3675.9	3678.3	3675.9	3677.1	3674.7
10°	3808.6	3808.6	3800.1	3805.0	3798.9	3789.3	3792.9	3789.3	3786.9	3778.4	3783.2
12.5°	3944.9	3941.3	3936.4	3925.6	3922.0	3920.8	3909.9	3911.1	3907.5	3905.1	3901.5
15°	4064.3	4063.1	4052.3	4046.2	4045.0	4040.2	4035.4	4033.0	4026.9	4025.7	4023.3
17.5°	4143.9	4140.3	4135.5	4129.5	4129.5	4122.2	4119.8	4113.8	4112.6	4109.0	4105.3
20°	4170.5	4171.7	4166.9	4162.0	4159.6	4154.8	4151.2	4146.4	4143.9	4139.1	4135.5
22.5°	4164.5	4164.5	4159.6	4158.4	4153.6	4146.4	4141.5	4135.5	4129.5	4123.4	4116.2
25°	4145.2	4143.9	4140.3	4134.3	4128.3	4117.4	4107.8	4098.1	4089.7	4082.4	4071.6
27.5°	4128.3	4125.9	4118.6	4110.2	4098.1	4086.0	4067.9	4054.7	4043.8	4034.2	4022.1
30°	4122.2	4113.8	4102.9	4089.7	4075.2	4057.1	4037.8	4020.9	4008.8	3999.2	3994.4
32.5°	4129.5	4118.6	4101.7	4084.8	4066.7	4045.0	4025.7	4011.2	4000.4	3998.0	3998.0
35°	4195.8	4177.7	4154.8	4130.7	4107.8	4089.7	4076.4	4075.2	4067.9	4076.4	4089.7
37.5°	4390.1	4374.4	4339.4	4308.0	4292.3	4283.9	4271.8	4274.2	4257.3	4283.9	4305.6
40°	4802.6	4783.3	4742.3	4717.0	4685.6	4655.5	4679.6	4672.3	4684.4	4679.6	4702.5
42.5°	5404.6	5385.3	5320.2	5310.5	5297.3	5285.2	5285.2	5275.5	5270.7	5287.6	5268.3
45°	6136.9	6098.3	6074.2	6103.1	6063.3	6075.4	6117.6	6060.9	6074.2	5995.8	5923.4
47.5°	6896.9	6893.3	6887.3	6922.3	6928.3	6946.4	6969.3	6911.4	6806.4	6747.3	6600.2
50°	7771.6	7809.0	7823.4	7857.2	7871.7	7885.0	7848.8	7763.1	7585.8	7428.9	7255.2
52.5°	8834.4	8769.2	8858.5	8891.1	8876.6	8823.5	8693.2	8588.3	8343.4	8117.8	7848.8
55°	10072.1	10087.8	10025.1	9999.8	9950.3	9803.1	9623.4	9386.9	9076.9	8782.5	8442.3
57.5°	11332.8	11326.8	11229.1	11091.5	10923.9	10746.5	10478.7	10139.7	9777.8	9382.1	8970.7
60°	12866.1	12860.1	12662.3	12427.0	12188.2	11902.2	11482.4	11074.7	10589.7	10069.7	9579.9
62.5°	14880.8	14621.4	14427.2	14076.2	13707.0	13333.0	12764.8	12223.1	11575.3	10919.0	10347.2
65°	17462.5	17035.4	16814.7	16305.6	15733.7	15149.8	14572.0	13860.2	12988.0	12194.2	11495.7
67.5°	19372.2	18981.3	18577.2	18069.3	17442.0	16790.5	15999.1	15102.8	14112.3	13222.0	12460.8
69°	19539.9	19174.4	18689.4	18180.3	17586.7	16878.6	16014.8	15011.1	14007.4	13106.2	12357.0
70°	19285.3	18896.9	18386.6	17857.0	17193.5	16525.1	15620.3	14574.4	13569.5	12665.9	11934.8
72.5°	17386.5	17007.7	16464.8	15831.5	15151.0	14579.2	13720.3	12629.7	11536.7	10701.9	10132.5
75°	13220.8	13137.6	12752.7	12383.6	11848.0	11209.8	10424.4	9690.9	8794.6	7911.5	7380.7
77.5°	5641.1	5832.9	6033.2	6062.1	6081.4	5884.8	5762.9	5578.3	4978.8	4706.1	4425.0
80°	1042.3	931.3	994.1	1001.3	1042.3	1064.0	1143.7	1356.0	1380.1	1432.0	1495.9
82.5°	370.4	376.4	386.0	389.7	393.3	407.8	462.0	553.7	637.0	745.5	890.3
85°	209.9	213.5	222.0	229.2	234.0	248.5	278.7	333.0	415.0	539.3	731.1
87.5°	63.9	72.4	77.2	86.9	90.5	92.9	106.2	142.4	183.4	271.4	395.7
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-F08-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7	3569.7
2.5°	3567.3	3566.1	3563.7	3561.3	3562.5	3560.1	3552.8	3550.4	3542.0	3535.9	3531.1
5°	3599.9	3598.7	3593.8	3595.0	3593.8	3581.8	3573.3	3558.8	3550.4	3537.1	3532.3
7.5°	3667.4	3666.2	3657.8	3661.4	3659.0	3640.9	3626.4	3603.5	3591.4	3574.5	3561.3
10°	3768.8	3768.8	3759.1	3760.3	3760.3	3736.2	3710.9	3672.2	3644.5	3618.0	3595.0
12.5°	3891.8	3887.0	3885.8	3879.7	3874.9	3848.4	3809.8	3757.9	3706.0	3662.6	3631.2
15°	4016.1	4008.8	4005.2	3998.0	3991.9	3967.8	3915.9	3852.0	3782.0	3712.1	3660.2
17.5°	4096.9	4092.1	4084.8	4082.4	4074.0	4049.8	4013.7	3949.7	3862.9	3765.1	3686.7
20°	4127.1	4118.6	4113.8	4109.0	4104.1	4087.2	4087.2	4046.2	3949.7	3812.2	3692.8
22.5°	4107.8	4102.9	4095.7	4092.1	4087.2	4089.7	4136.7	4130.7	4019.7	3823.0	3649.3
25°	4063.1	4057.1	4051.1	4051.1	4049.8	4075.2	4188.6	4204.3	4040.2	3770.0	3554.0
27.5°	4017.3	4008.8	4011.2	4012.5	4018.5	4072.8	4245.3	4223.6	3984.7	3642.1	3390.0
30°	3989.5	3989.5	3995.6	4005.2	4017.3	4112.6	4289.9	4180.1	3841.1	3449.1	3172.8
32.5°	4001.6	4013.7	4026.9	4051.1	4069.2	4200.6	4305.6	4067.9	3632.4	3210.2	2946.0
35°	4109.0	4123.4	4148.8	4186.2	4207.9	4327.3	4305.6	3903.9	3390.0	3005.1	2712.0
37.5°	4343.0	4357.5	4387.6	4416.6	4438.3	4486.6	4287.5	3695.2	3187.3	2792.8	2502.1
40°	4719.4	4739.9	4761.6	4756.8	4742.3	4695.3	4251.3	3500.9	3000.3	2607.0	2295.8
42.5°	5249.0	5229.7	5227.3	5180.2	5132.0	4930.5	4224.8	3374.3	2839.8	2411.6	2090.7
45°	5860.6	5782.2	5701.4	5638.7	5565.1	5188.7	4217.5	3271.7	2662.5	2194.4	1867.5
47.5°	6475.9	6350.4	6193.6	6095.9	5976.5	5463.7	4239.3	3134.2	2434.5	1958.0	1658.8
50°	7079.1	6874.0	6679.8	6562.8	6427.6	5779.8	4274.2	2902.6	2161.9	1743.2	1468.2
52.5°	7637.7	7373.5	7174.4	7036.9	6871.6	6147.8	4242.9	2598.6	1925.4	1536.9	1287.2
55°	8168.5	7876.5	7670.2	7525.5	7331.2	6516.9	4016.1	2322.3	1699.8	1335.5	1083.3
57.5°	8632.9	8353.0	8138.3	7941.7	7777.6	6837.8	3568.5	2094.3	1482.7	1105.1	862.6
60°	9175.8	8860.9	8606.4	8396.5	8203.4	7003.1	3066.6	1891.6	1251.0	855.3	623.7
62.5°	9908.1	9546.2	9251.8	9011.7	8759.6	7039.3	2724.0	1688.9	992.9	618.9	453.6
65°	10993.8	10547.5	10179.5	9849.0	9507.6	6889.7	2555.1	1468.2	738.3	459.6	380.0
67.5°	11856.4	11393.1	10967.3	10542.6	10105.9	6612.2	2517.7	1264.3	567.0	390.9	341.4
69°	11751.4	11309.9	10919.0	10459.4	9975.6	6263.6	2480.3	1185.9	517.5	363.1	323.3
70°	11347.3	10928.7	10531.8	10157.8	9565.5	5875.1	2381.4	1142.5	498.2	349.9	310.0
72.5°	9588.4	9103.4	8718.6	8252.9	7629.2	4365.9	1806.0	924.1	457.2	319.7	279.9
75°	6993.4	6591.7	6208.1	5693.0	5086.1	2526.2	1124.4	528.4	335.4	289.5	253.3
77.5°	4083.6	3993.1	3622.8	3283.8	2683.0	1286.0	645.4	316.1	260.6	263.0	223.2
80°	1536.9	1637.1	1674.5	1557.4	1439.2	887.9	469.3	257.0	226.8	259.4	189.4
82.5°	1120.7	1300.5	1322.2	1266.7	1178.6	827.6	375.2	206.3	184.6	278.7	162.9
85°	935.0	1035.1	1050.8	992.9	963.9	700.9	261.8	144.8	135.1	200.3	121.8
87.5°	472.9	498.2	511.5	463.3	465.7	326.9	105.0	61.5	73.6	85.7	67.6
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: P158044

CATALOG NUMBER: VST-F08-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3569.7	3569.7
2.5°	3520.2	3527.5
5°	3525.1	3525.1
7.5°	3552.8	3552.8
10°	3583.0	3584.2
12.5°	3610.7	3609.5
15°	3632.4	3628.8
17.5°	3645.7	3642.1
20°	3632.4	3626.4
22.5°	3564.9	3548.0
25°	3441.8	3420.1
27.5°	3279.0	3264.5
30°	3066.6	3044.9
32.5°	2818.1	2807.3
35°	2580.5	2567.2
37.5°	2363.3	2359.7
40°	2179.9	2160.6
42.5°	1965.2	1956.8
45°	1746.9	1742.0
47.5°	1541.8	1536.9
50°	1352.4	1342.7
52.5°	1166.6	1150.9
55°	960.3	949.4
57.5°	737.1	727.5
60°	518.7	507.9
62.5°	369.2	357.1
65°	307.6	298.0
67.5°	278.7	267.8
69°	265.4	255.8
70°	257.0	249.7
72.5°	238.9	234.0
75°	218.4	214.7
77.5°	191.8	185.8
80°	160.4	154.4
82.5°	135.1	129.1
85°	90.5	82.0
87.5°	41.0	36.2
90°	0.0	0.0

(END OF REPORT)