

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: P158045

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158045
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (56) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20574.8 lumens
Efficiency: N/A
Efficacy: 100.7 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



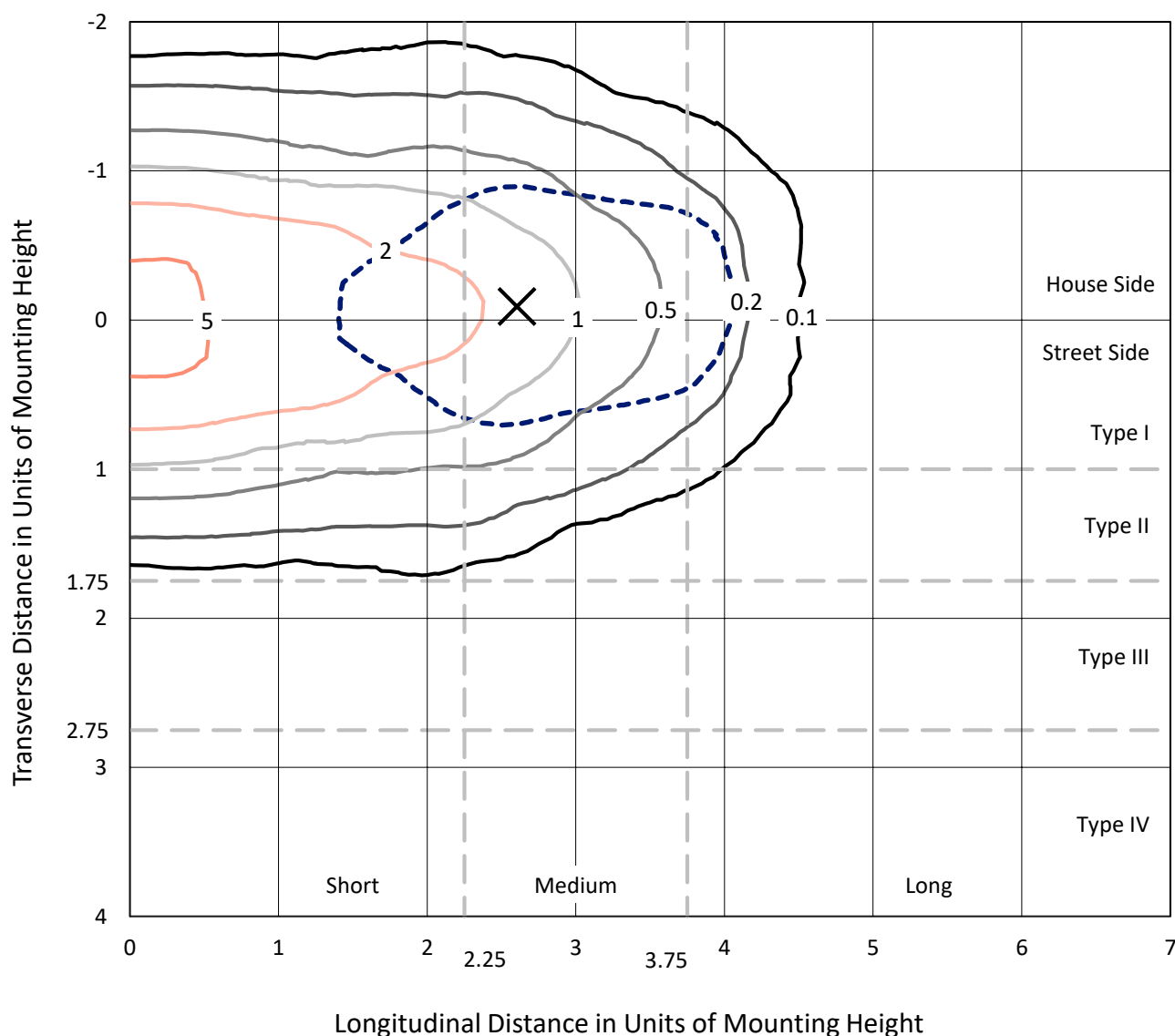
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

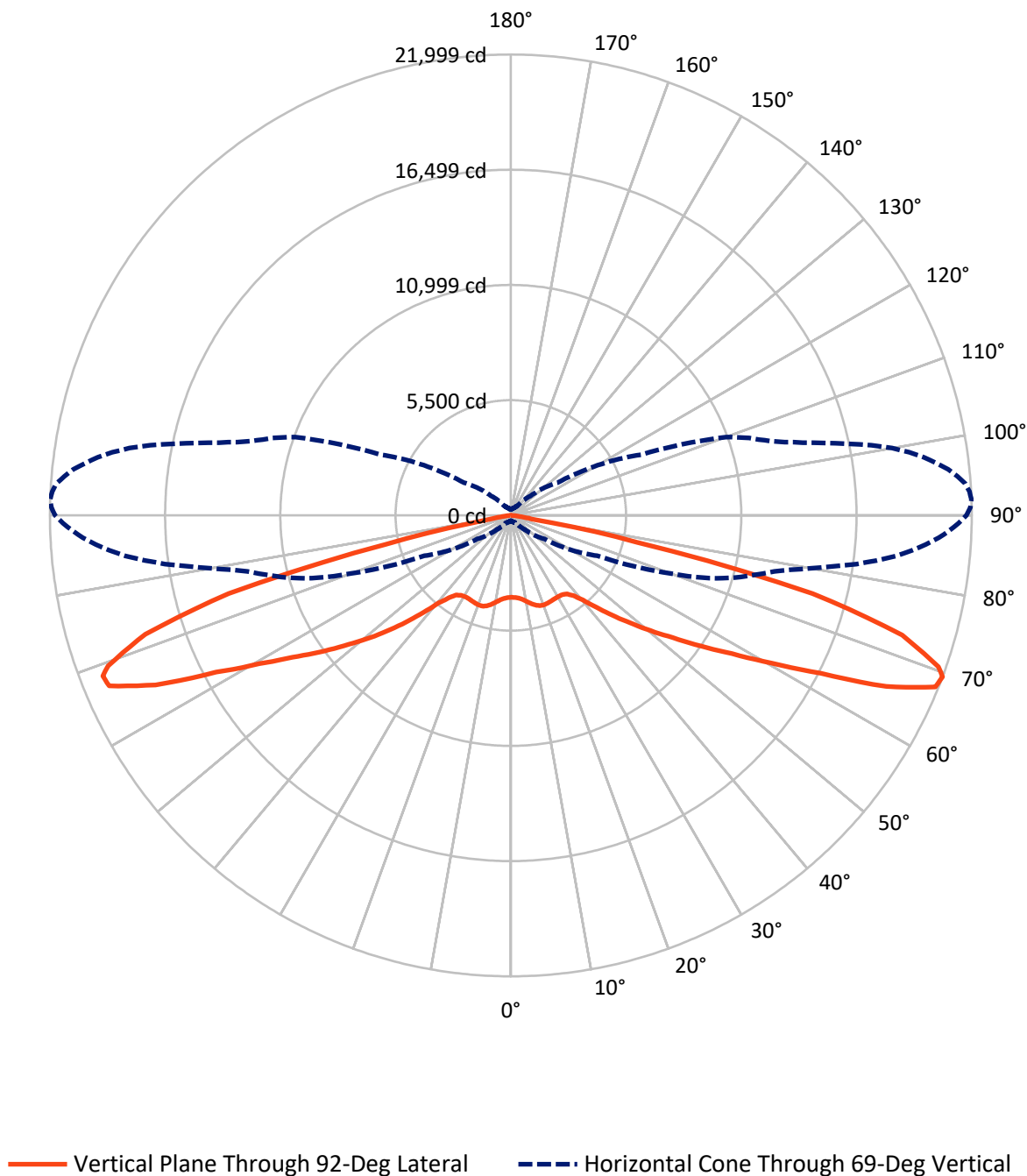


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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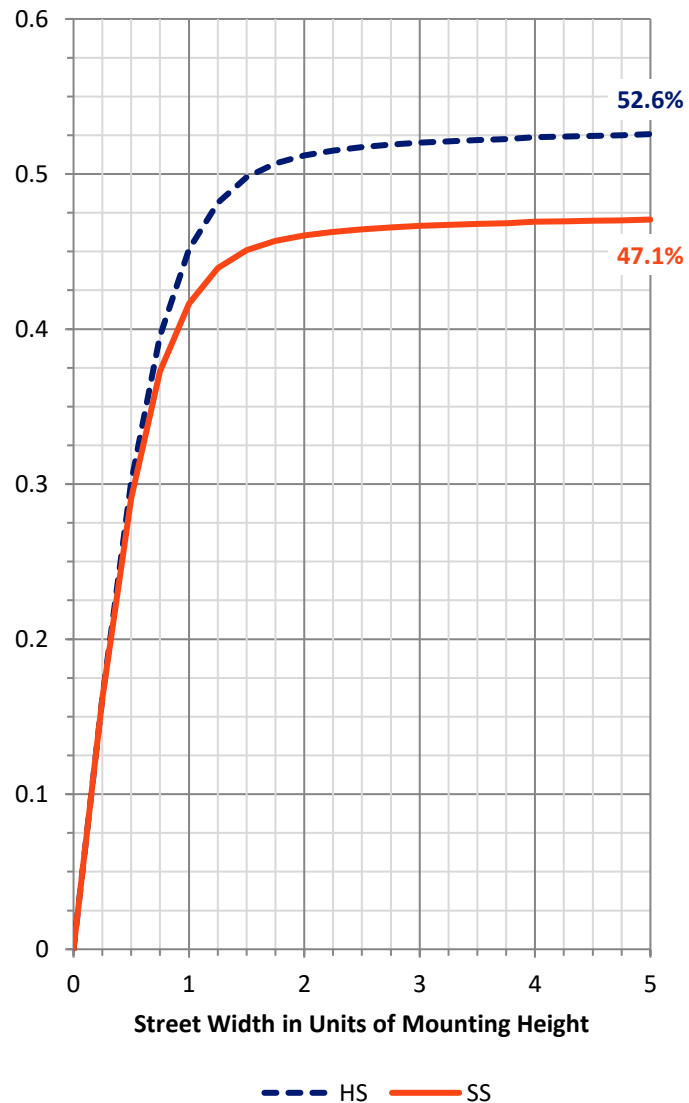
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10911.9	0.0	10911.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	9662.9	0.0	9662.9
	% Fixture	47.0	0.0	47.0
Total	Lumens	20574.8	0.0	20574.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	1.9
10°-20°	1208.1	5.9
20°-30°	1960.1	9.5
30°-40°	2442.8	11.9
40°-50°	3041.5	14.8
50°-60°	3750.9	18.2
60°-70°	4658.4	22.6
70°-80°	2862.3	13.9
80°-90°	268.3	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°	20574.8	100.0
0°-180°	20574.8	100.0

Coefficient of Utilization



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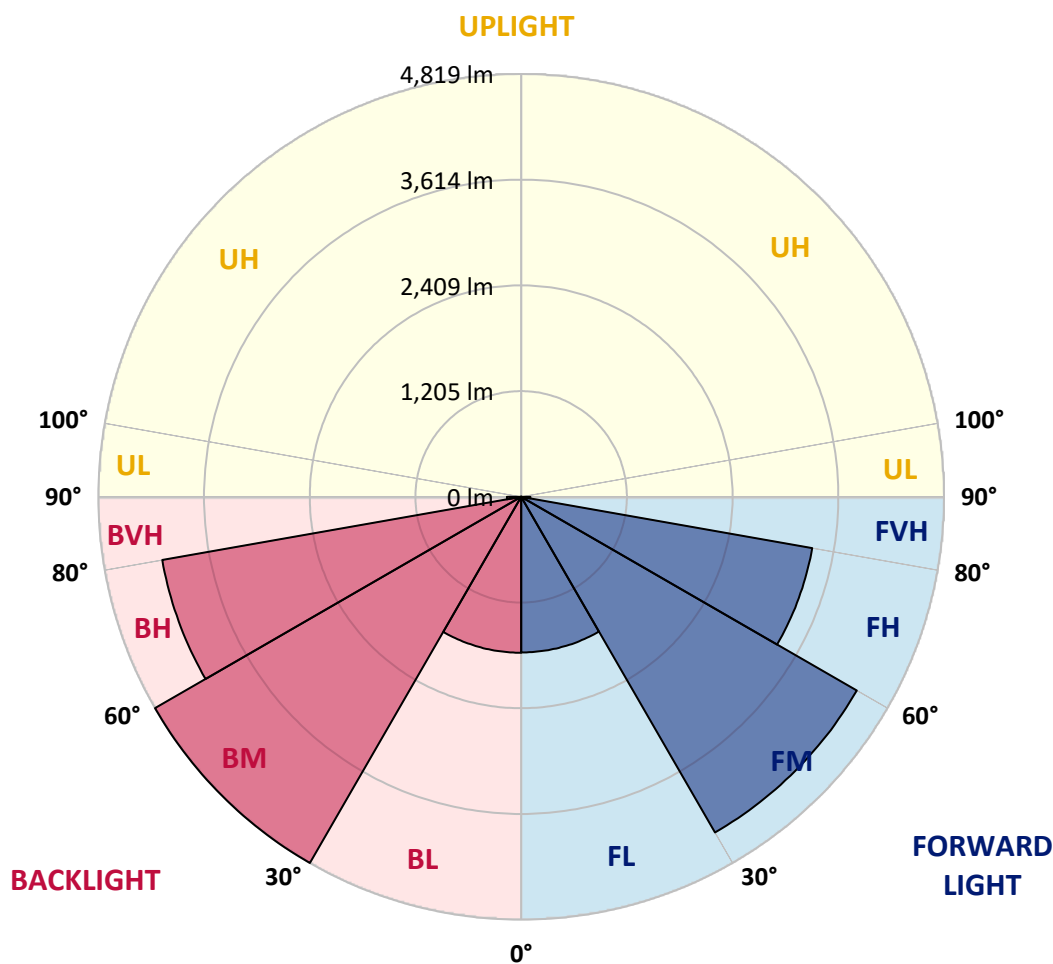
CATALOG NUMBER: VST-F08-LED-E-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1773.4	8.6			
FM	(30°-60°)	4416.6	21.5			
FH	(60°-80°)	3367.8	16.4			G2/5000
FVH	(80°-90°)	105.0	0.5			G2/225
BL	(0°-30°)	1777.2	8.6	B3/2500		
BM	(30°-60°)	4818.6	23.4	B3/5000		
BH	(60°-80°)	4152.9	20.2	B4/5000		G4/5000
BVH	(80°-90°)	163.2	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°	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4
2.5°	3970.4	3959.9	3969.1	3970.4	3969.1	3969.1	3957.2	3954.6	3938.7	3942.7	3941.4
5°	4024.6	4020.6	4027.2	4029.9	4032.5	4027.2	4018.0	4014.0	4003.5	3999.5	3998.2
7.5°	4074.8	4068.2	4078.8	4088.0	4094.6	4095.9	4097.2	4090.6	4090.6	4085.4	4085.4
10°	4117.1	4111.8	4128.9	4140.8	4162.0	4173.9	4187.1	4196.3	4201.6	4202.9	4201.6
12.5°	4135.5	4131.6	4159.3	4195.0	4234.6	4262.4	4295.4	4319.1	4325.8	4324.4	4331.0
15°	4103.8	4106.5	4148.8	4218.8	4303.3	4373.3	4419.5	4439.3	4444.6	4447.3	4448.6
17.5°	4018.0	4023.3	4084.0	4197.6	4345.6	4472.4	4541.0	4541.0	4530.5	4530.5	4529.2
20°	3880.6	3885.9	3965.2	4128.9	4346.9	4541.0	4638.8	4619.0	4579.4	4571.4	4563.5
22.5°	3690.4	3711.6	3798.7	3988.9	4290.1	4560.9	4699.5	4670.5	4608.4	4591.2	4579.4
25°	3475.1	3472.5	3576.8	3790.8	4152.7	4513.3	4716.7	4711.4	4645.4	4626.9	4605.8
27.5°	3229.5	3237.4	3333.8	3550.4	3942.7	4375.9	4687.7	4757.7	4703.5	4685.0	4665.2
30°	2977.2	2985.1	3076.2	3328.5	3703.6	4179.1	4628.2	4802.6	4781.4	4766.9	4753.7
32.5°	2723.6	2726.2	2834.5	3105.3	3501.5	3944.0	4538.4	4843.5	4872.6	4866.0	4860.7
35°	2485.8	2488.5	2606.0	2880.8	3302.1	3743.3	4430.1	4903.0	4996.7	5004.7	5009.9
37.5°	2254.7	2258.6	2378.8	2666.8	3105.3	3591.4	4309.9	4994.1	5171.1	5200.1	5205.4
40°	2024.8	2028.8	2143.7	2448.8	2905.8	3458.0	4217.4	5122.2	5406.2	5445.8	5486.8
42.5°	1805.6	1820.1	1917.9	2209.8	2683.9	3292.9	4177.8	5278.1	5684.9	5747.0	5793.2
45°	1600.9	1602.2	1713.1	1986.5	2421.1	3069.6	4151.4	5455.1	5996.6	6090.4	6153.8
47.5°	1381.6	1397.4	1513.7	1779.2	2175.4	2793.6	4066.9	5662.4	6336.1	6445.7	6573.8
50°	1168.9	1191.4	1303.7	1566.5	1950.9	2508.3	3839.7	5905.5	6717.8	6860.4	7008.4
52.5°	964.2	962.9	1081.8	1355.2	1725.0	2266.6	3471.2	6160.4	7159.0	7312.2	7472.0
55°	729.1	729.1	846.7	1096.3	1480.7	2051.3	3076.2	6318.9	7568.4	7753.3	7927.7
57.5°	500.6	513.8	624.8	840.1	1225.7	1854.5	2773.8	6227.8	7881.5	8111.3	8318.6
60°	371.2	384.4	466.3	603.6	958.9	1622.0	2546.6	5798.5	8070.3	8375.4	8644.9
62.5°	321.0	330.2	408.1	483.4	690.8	1375.0	2345.8	5253.0	8342.4	8759.8	9134.9
65°	286.6	295.9	373.8	417.4	540.2	1105.5	2233.5	4941.3	8667.4	9305.3	9849.5
67.5°	265.5	276.1	342.1	373.8	471.5	999.9	2146.4	4868.6	8664.7	9438.7	10133.5
69°	254.9	262.8	317.0	351.3	455.7	968.2	1957.5	4552.9	8092.8	8923.6	9621.0
70°	248.3	256.2	302.5	336.8	450.4	911.4	1783.1	4135.5	7441.6	8277.7	8985.7
72.5°	227.2	235.1	269.5	301.2	375.1	608.9	1242.9	2647.0	5317.7	5914.7	6724.4
75°	200.8	210.0	236.4	262.8	284.0	352.7	717.2	1373.7	3040.6	3493.6	4214.8
77.5°	163.8	173.0	200.8	243.0	240.4	268.1	466.3	844.0	1423.9	1766.0	2032.8
80°	134.7	141.3	165.1	245.7	196.8	224.5	377.8	692.1	1002.5	1108.2	1171.6
82.5°	89.8	99.1	128.1	192.8	150.6	159.8	282.7	647.2	848.0	929.9	1006.5
85°	42.3	46.2	77.9	103.0	91.1	85.9	161.1	457.0	631.4	669.7	698.7
87.5°	0.0	0.0	4.0	7.9	11.9	11.9	29.1	96.4	177.0	214.0	211.3
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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CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4
2.5°	3936.1	3937.4	3936.1	3936.1	3934.8	3932.1	3932.1	3929.5	3930.8	3929.5	3932.1
5°	3996.9	3996.9	3992.9	3990.3	3994.2	3990.3	3991.6	3985.0	3985.0	3981.0	3975.7
7.5°	4084.0	4084.0	4085.4	4077.4	4082.7	4084.0	4080.1	4077.4	4074.8	4068.2	4069.5
10°	4200.3	4200.3	4204.2	4193.7	4198.9	4201.6	4202.9	4202.9	4200.3	4188.4	4189.7
12.5°	4329.7	4327.1	4328.4	4323.1	4328.4	4331.0	4333.7	4331.0	4331.0	4328.4	4327.1
15°	4447.3	4445.9	4448.6	4444.6	4445.9	4448.6	4456.5	4455.2	4453.9	4445.9	4445.9
17.5°	4527.8	4523.9	4521.2	4519.9	4519.9	4518.6	4519.9	4519.9	4516.0	4514.6	4514.6
20°	4558.2	4547.7	4541.0	4537.1	4531.8	4529.2	4526.5	4527.8	4525.2	4521.2	4522.6
22.5°	4563.5	4549.0	4535.8	4523.9	4513.3	4506.7	4500.1	4497.5	4490.9	4486.9	4486.9
25°	4588.6	4566.1	4545.0	4525.2	4509.3	4494.8	4480.3	4469.7	4461.8	4452.6	4449.9
27.5°	4644.1	4620.3	4595.2	4570.1	4549.0	4519.9	4500.1	4479.0	4460.5	4445.9	4435.4
30°	4729.9	4706.2	4681.1	4652.0	4624.3	4593.9	4560.9	4535.8	4509.3	4480.3	4464.4
32.5°	4843.5	4827.7	4802.6	4774.8	4749.7	4718.0	4678.4	4640.1	4615.0	4580.7	4555.6
35°	5006.0	4987.5	4979.6	4967.7	4942.6	4922.8	4879.2	4843.5	4819.7	4772.2	4753.7
37.5°	5227.9	5226.6	5233.2	5229.2	5233.2	5208.1	5188.3	5186.9	5152.6	5106.4	5061.5
40°	5530.4	5546.2	5581.9	5607.0	5630.7	5633.4	5661.1	5632.1	5636.0	5629.4	5583.2
42.5°	5875.1	5929.3	5971.5	6045.5	6102.3	6155.1	6190.8	6239.6	6276.6	6309.7	6317.6
45°	6259.5	6340.0	6437.8	6503.8	6614.8	6703.3	6824.8	6918.6	7016.3	7112.7	7147.1
47.5°	6676.8	6777.2	6885.5	7008.4	7148.4	7287.1	7474.6	7618.6	7775.8	7906.5	8022.8
50°	7137.8	7242.2	7387.5	7528.8	7721.6	7881.5	8127.1	8316.0	8569.6	8744.0	8894.5
52.5°	7618.6	7749.4	7911.8	8067.7	8264.5	8469.2	8742.6	9021.3	9326.5	9590.6	9809.9
55°	8088.8	8250.0	8405.8	8588.1	8806.0	9043.8	9352.9	9720.1	10100.5	10402.9	10693.5
57.5°	8507.5	8693.8	8877.4	9062.3	9285.5	9561.6	9908.9	10305.2	10741.1	11143.9	11542.8
60°	8895.9	9119.1	9343.6	9574.8	9831.0	10171.8	10589.2	11076.6	11640.6	12191.4	12713.1
62.5°	9510.0	9803.3	10082.0	10380.5	10689.6	11089.8	11582.4	12221.7	12868.9	13557.1	14092.0
65°	10342.2	10754.3	11118.8	11505.8	11906.1	12441.0	13030.1	13794.9	14722.1	15427.4	16286.0
67.5°	10755.6	11298.5	11767.4	12198.0	12693.3	13233.5	13933.5	14838.3	15827.6	16850.0	17807.6
69°	10269.5	10829.6	11348.7	11830.8	12331.4	12855.7	13587.5	14516.0	15562.1	16667.7	17602.8
70°	9639.5	10199.5	10753.0	11302.4	11759.4	12270.6	13005.0	13962.6	15007.4	16156.5	17083.7
72.5°	7384.8	8058.4	8559.0	9074.2	9603.8	10037.1	10885.0	11692.1	12780.4	13946.7	14967.8
75°	4724.6	5344.1	5890.9	6329.5	6847.2	7366.3	7992.4	8889.3	9570.8	10528.4	11356.6
77.5°	2427.7	2611.3	3138.3	3295.5	3654.8	3937.4	4282.2	4506.7	5061.5	5179.0	5667.7
80°	1150.5	1036.9	976.1	920.6	936.5	929.9	902.1	865.2	911.4	891.6	883.6
82.5°	1002.5	894.2	713.3	606.3	524.4	445.1	383.0	351.3	355.3	365.9	369.8
85°	702.7	660.4	515.1	391.0	305.1	236.4	190.2	182.3	187.6	202.1	196.8
87.5°	203.4	212.7	187.6	130.8	91.1	66.0	51.5	58.1	55.5	54.2	56.8
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°	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4
2.5°	3932.1	3930.8	3926.9	3922.9	3922.9	3920.3	3922.9	3924.2	3922.9	3922.9	3920.3
5°	3977.0	3978.4	3982.3	3974.4	3973.1	3974.4	3969.1	3967.8	3963.8	3967.8	3962.5
7.5°	4062.9	4066.9	4066.9	4061.6	4060.3	4064.2	4056.3	4053.7	4049.7	4048.4	4047.1
10°	4191.0	4195.0	4188.4	4184.4	4180.5	4185.7	4179.1	4179.1	4175.2	4171.2	4169.9
12.5°	4333.7	4331.0	4328.4	4331.0	4327.1	4327.1	4323.1	4320.5	4319.1	4317.8	4315.2
15°	4444.6	4453.9	4453.9	4456.5	4453.9	4453.9	4448.6	4449.9	4447.3	4445.9	4447.3
17.5°	4516.0	4518.6	4525.2	4529.2	4529.2	4530.5	4527.8	4530.5	4527.8	4527.8	4533.1
20°	4525.2	4527.8	4534.4	4541.0	4545.0	4547.7	4547.7	4551.6	4554.3	4556.9	4563.5
22.5°	4488.2	4492.2	4500.1	4512.0	4518.6	4521.2	4526.5	4533.1	4539.7	4545.0	4554.3
25°	4449.9	4451.2	4459.2	4471.0	4479.0	4485.6	4494.8	4502.7	4512.0	4522.6	4533.1
27.5°	4428.8	4427.5	4434.1	4445.9	4452.6	4461.8	4469.7	4481.6	4492.2	4505.4	4514.6
30°	4447.3	4436.7	4438.0	4443.3	4448.6	4455.2	4464.4	4475.0	4486.9	4498.8	4509.3
32.5°	4529.2	4505.4	4489.5	4485.6	4486.9	4488.2	4493.5	4500.1	4509.3	4518.6	4522.6
35°	4706.2	4665.2	4644.1	4626.9	4612.4	4600.5	4603.1	4601.8	4601.8	4609.7	4600.5
37.5°	5043.0	4991.5	4969.0	4938.6	4921.4	4877.9	4866.0	4863.3	4846.2	4846.2	4826.3
40°	5571.3	5540.9	5523.8	5496.0	5412.8	5423.4	5363.9	5365.3	5316.4	5321.7	5287.3
42.5°	6322.9	6326.8	6305.7	6287.2	6222.5	6193.4	6137.9	6058.7	5996.6	5995.3	5926.6
45°	7192.0	7239.5	7172.2	7195.9	7139.1	7061.2	6996.5	6894.8	6798.4	6768.0	6698.0
47.5°	8100.7	8178.6	8127.1	8136.4	8108.6	7997.7	7910.5	7785.0	7659.6	7575.0	7532.7
50°	9071.5	9123.0	9121.7	9096.6	9083.4	8975.1	8835.1	8740.0	8647.5	8533.9	8497.0
52.5°	9951.2	10071.4	10152.0	10133.5	10095.2	10030.5	9906.3	9824.4	9688.4	9672.5	9688.4
55°	10893.0	11048.8	11130.7	11229.8	11231.1	11219.2	11167.7	11137.3	11010.5	11025.1	11006.6
57.5°	11784.5	12013.0	12138.5	12349.9	12422.5	12518.9	12483.3	12522.9	12446.3	12496.5	12481.9
60°	12993.1	13310.1	13518.8	13808.1	13942.8	14184.5	14232.0	14261.1	14303.4	14406.4	14348.3
62.5°	14513.4	14978.3	15411.6	15805.2	15934.6	16297.8	16357.3	16584.5	16596.4	16666.4	16538.2
65°	17001.9	17568.5	18045.3	18516.9	18788.9	19214.3	19386.0	19827.1	19692.4	19749.2	19475.8
67.5°	18631.8	19290.9	19930.2	20376.6	20828.3	21262.9	21575.9	21861.2	21858.6	21803.1	21560.1
69°	18487.8	19222.2	19852.2	20450.6	20926.1	21372.5	21748.9	21933.9	21998.6	21918.0	21745.0
70°	17989.8	18744.0	19515.4	20008.1	20525.9	21015.9	21404.2	21606.3	21651.2	21594.4	21445.2
72.5°	15688.9	16412.8	17263.4	17711.1	18337.2	18691.2	19226.1	19487.7	19533.9	19461.3	19363.5
75°	12244.2	12374.9	13241.4	13526.7	13981.1	14389.2	14722.1	14637.5	14874.0	14827.7	14790.8
77.5°	5768.1	5419.4	5980.8	6242.3	6104.9	5739.0	6271.3	5887.0	6141.9	6473.4	6388.9
80°	951.0	948.4	973.5	1028.9	962.9	1022.3	1021.0	992.0	994.6	1065.9	1028.9
82.5°	365.9	373.8	377.8	388.3	388.3	389.6	396.3	404.2	397.6	410.8	408.1
85°	198.1	211.3	199.4	190.2	196.8	200.8	206.1	212.7	206.1	225.9	215.3
87.5°	51.5	54.2	47.6	47.6	46.2	42.3	42.3	44.9	48.9	58.1	63.4
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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CATALOG NUMBER: VST-F08-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4
2.5°	3915.0	3916.3	3917.6	3913.6	3911.0	3911.0	3909.7	3907.0	3905.7	3905.7	3905.7
5°	3959.9	3962.5	3955.9	3954.6	3952.0	3949.3	3949.3	3946.7	3948.0	3948.0	3941.4
7.5°	4049.7	4045.7	4037.8	4032.5	4037.8	4028.6	4024.6	4027.2	4024.6	4025.9	4023.3
10°	4169.9	4169.9	4160.6	4165.9	4159.3	4148.8	4152.7	4148.8	4146.1	4136.9	4142.2
12.5°	4319.1	4315.2	4309.9	4298.0	4294.1	4292.7	4280.8	4282.2	4278.2	4275.6	4271.6
15°	4449.9	4448.6	4436.7	4430.1	4428.8	4423.5	4418.2	4415.6	4409.0	4407.6	4405.0
17.5°	4537.1	4533.1	4527.8	4521.2	4521.2	4513.3	4510.7	4504.1	4502.7	4498.8	4494.8
20°	4566.1	4567.5	4562.2	4556.9	4554.3	4549.0	4545.0	4539.7	4537.1	4531.8	4527.8
22.5°	4559.5	4559.5	4554.3	4552.9	4547.7	4539.7	4534.4	4527.8	4521.2	4514.6	4506.7
25°	4538.4	4537.1	4533.1	4526.5	4519.9	4508.0	4497.5	4486.9	4477.6	4469.7	4457.8
27.5°	4519.9	4517.3	4509.3	4500.1	4486.9	4473.7	4453.9	4439.3	4427.5	4416.9	4403.7
30°	4513.3	4504.1	4492.2	4477.6	4461.8	4442.0	4420.9	4402.4	4389.2	4378.6	4373.3
32.5°	4521.2	4509.3	4490.9	4472.4	4452.6	4428.8	4407.6	4391.8	4379.9	4377.3	4377.3
35°	4593.9	4574.1	4549.0	4522.6	4497.5	4477.6	4463.1	4461.8	4453.9	4463.1	4477.6
37.5°	4806.5	4789.4	4751.1	4716.7	4699.5	4690.3	4677.1	4679.7	4661.2	4690.3	4714.1
40°	5258.3	5237.1	5192.2	5164.5	5130.1	5097.1	5123.5	5115.6	5128.8	5123.5	5148.6
42.5°	5917.4	5896.2	5824.9	5814.3	5799.8	5786.6	5786.6	5776.0	5770.7	5789.2	5768.1
45°	6719.1	6676.8	6650.4	6682.1	6638.5	6651.7	6698.0	6635.9	6650.4	6564.6	6485.3
47.5°	7551.2	7547.3	7540.7	7579.0	7585.6	7605.4	7630.5	7567.1	7452.2	7387.5	7226.3
50°	8508.9	8549.8	8565.6	8602.6	8618.5	8633.0	8593.4	8499.6	8305.4	8133.7	7943.5
52.5°	9672.5	9601.2	9698.9	9734.6	9718.7	9660.6	9518.0	9403.1	9134.9	8887.9	8593.4
55°	11027.7	11044.9	10976.2	10948.4	10894.3	10733.1	10536.3	10277.5	9938.0	9615.7	9243.2
57.5°	12408.0	12401.4	12294.4	12143.8	11960.2	11766.0	11472.8	11101.7	10705.4	10272.2	9821.8
60°	14086.8	14080.2	13863.5	13606.0	13344.4	13031.4	12571.8	12125.3	11594.3	11025.1	10488.8
62.5°	16292.6	16008.6	15795.9	15411.6	15007.4	14597.9	13975.8	13382.7	12673.5	11954.9	11328.8
65°	19119.2	18651.6	18409.9	17852.5	17226.4	16587.1	15954.4	15175.1	14220.2	13351.0	12586.3
67.5°	21210.0	20782.1	20339.6	19783.5	19096.7	18383.4	17517.0	16535.6	15451.2	14476.4	13643.0
69°	21393.6	20993.4	20462.5	19905.1	19255.2	18479.9	17534.1	16435.2	15336.3	14349.6	13529.4
70°	21114.9	20689.6	20130.9	19551.1	18824.6	18092.9	17102.2	15957.1	14856.8	13867.5	13067.1
72.5°	19035.9	18621.2	18026.8	17333.4	16588.4	15962.3	15021.9	13827.9	12631.2	11717.2	11093.7
75°	14475.1	14383.9	13962.6	13558.4	12972.0	12273.2	11413.4	10610.3	9628.9	8662.1	8080.9
77.5°	6176.2	6386.3	6605.5	6637.2	6658.4	6443.1	6309.7	6107.6	5451.1	5152.6	4844.8
80°	1141.2	1019.7	1088.4	1096.3	1141.2	1165.0	1252.2	1484.6	1511.0	1567.8	1637.8
82.5°	405.5	412.1	422.7	426.6	430.6	446.4	505.9	606.3	697.4	816.3	974.8
85°	229.8	233.8	243.0	251.0	256.2	272.1	305.1	364.6	454.4	590.4	800.4
87.5°	70.0	79.3	84.5	95.1	99.1	101.7	116.2	155.9	200.8	297.2	433.2
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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CATALOG NUMBER: VST-F08-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4	3908.4
2.5°	3905.7	3904.4	3901.8	3899.1	3900.4	3897.8	3889.9	3887.2	3878.0	3871.4	3866.1
5°	3941.4	3940.1	3934.8	3936.1	3934.8	3921.6	3912.3	3896.5	3887.2	3872.7	3867.4
7.5°	4015.4	4014.0	4004.8	4008.7	4006.1	3986.3	3970.4	3945.3	3932.1	3913.6	3899.1
10°	4126.3	4126.3	4115.7	4117.1	4117.1	4090.6	4062.9	4020.6	3990.3	3961.2	3936.1
12.5°	4261.0	4255.7	4254.4	4247.8	4242.5	4213.5	4171.2	4114.4	4057.6	4010.1	3975.7
15°	4397.1	4389.2	4385.2	4377.3	4370.7	4344.2	4287.4	4217.4	4140.8	4064.2	4007.4
17.5°	4485.6	4480.3	4472.4	4469.7	4460.5	4434.1	4394.4	4324.4	4229.3	4122.3	4036.5
20°	4518.6	4509.3	4504.1	4498.8	4493.5	4475.0	4475.0	4430.1	4324.4	4173.9	4043.1
22.5°	4497.5	4492.2	4484.3	4480.3	4475.0	4477.6	4529.2	4522.6	4401.0	4185.7	3995.5
25°	4448.6	4442.0	4435.4	4435.4	4434.1	4461.8	4586.0	4603.1	4423.5	4127.6	3891.2
27.5°	4398.4	4389.2	4391.8	4393.1	4399.7	4459.2	4648.0	4624.3	4362.7	3987.6	3711.6
30°	4368.0	4368.0	4374.6	4385.2	4398.4	4502.7	4696.9	4576.7	4205.6	3776.3	3473.8
32.5°	4381.2	4394.4	4409.0	4435.4	4455.2	4599.2	4714.1	4453.9	3977.0	3514.8	3225.5
35°	4498.8	4514.6	4542.4	4583.3	4607.1	4737.9	4714.1	4274.2	3711.6	3290.2	2969.2
37.5°	4755.0	4770.9	4803.9	4835.6	4859.4	4912.2	4694.3	4045.7	3489.7	3057.7	2739.4
40°	5167.1	5189.6	5213.4	5208.1	5192.2	5140.7	4654.6	3833.1	3284.9	2854.3	2513.6
42.5°	5747.0	5725.8	5723.2	5671.7	5618.9	5398.3	4625.6	3694.4	3109.3	2640.4	2289.0
45°	6416.6	6330.8	6242.3	6173.6	6093.0	5680.9	4617.7	3582.1	2915.1	2402.6	2044.7
47.5°	7090.3	6952.9	6781.2	6674.2	6543.4	5982.1	4641.4	3431.5	2665.5	2143.7	1816.2
50°	7750.7	7526.1	7313.5	7185.4	7037.4	6328.1	4679.7	3177.9	2366.9	1908.6	1607.5
52.5°	8362.2	8073.0	7855.0	7704.5	7523.5	6731.0	4645.4	2845.1	2108.1	1682.8	1409.3
55°	8943.4	8623.8	8397.9	8239.4	8026.7	7135.2	4397.1	2542.6	1861.1	1462.2	1186.1
57.5°	9451.9	9145.5	8910.4	8695.1	8515.5	7486.5	3907.0	2293.0	1623.3	1209.9	944.4
60°	10046.3	9701.6	9422.9	9193.0	8981.7	7667.5	3357.6	2071.1	1369.7	936.5	682.9
62.5°	10848.1	10451.8	10129.5	9866.7	9590.6	7707.1	2982.5	1849.2	1087.1	677.6	496.6
65°	12036.8	11548.1	11145.2	10783.3	10409.5	7543.3	2797.5	1607.5	808.4	503.2	416.1
67.5°	12981.2	12474.0	12007.8	11542.8	11064.7	7239.5	2756.6	1384.2	620.8	428.0	373.8
69°	12866.3	12382.9	11954.9	11451.7	10922.0	6857.8	2715.6	1298.4	566.6	397.6	354.0
70°	12423.8	11965.5	11530.9	11121.5	10472.9	6432.5	2607.3	1250.8	545.5	383.0	339.5
72.5°	10498.0	9967.1	9545.7	9035.9	8353.0	4780.1	1977.3	1011.8	500.6	350.0	306.4
75°	7656.9	7217.1	6797.0	6233.0	5568.7	2765.8	1231.0	578.5	367.2	317.0	277.4
77.5°	4471.0	4372.0	3966.5	3595.3	2937.5	1408.0	706.6	346.1	285.3	287.9	244.4
80°	1682.8	1792.4	1833.3	1705.2	1575.8	972.1	513.8	281.3	248.3	284.0	207.4
82.5°	1227.1	1423.9	1447.6	1386.9	1290.5	906.1	410.8	225.9	202.1	305.1	178.3
85°	1023.7	1133.3	1150.5	1087.1	1055.4	767.4	286.6	158.5	147.9	219.3	133.4
87.5°	517.8	545.5	560.0	507.2	509.8	357.9	114.9	67.4	80.6	93.8	74.0
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: P158045

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

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3908.4	3908.4
2.5°	3854.2	3862.1
5°	3859.5	3859.5
7.5°	3889.9	3889.9
10°	3922.9	3924.2
12.5°	3953.3	3952.0
15°	3977.0	3973.1
17.5°	3991.6	3987.6
20°	3977.0	3970.4
22.5°	3903.1	3884.6
25°	3768.4	3744.6
27.5°	3590.0	3574.2
30°	3357.6	3333.8
32.5°	3085.5	3073.6
35°	2825.3	2810.7
37.5°	2587.5	2583.6
40°	2386.8	2365.6
42.5°	2151.6	2142.4
45°	1912.6	1907.3
47.5°	1688.0	1682.8
50°	1480.7	1470.1
52.5°	1277.3	1260.1
55°	1051.4	1039.5
57.5°	807.0	796.5
60°	568.0	556.1
62.5°	404.2	391.0
65°	336.8	326.2
67.5°	305.1	293.2
69°	290.6	280.0
70°	281.3	273.4
72.5°	261.5	256.2
75°	239.1	235.1
77.5°	210.0	203.4
80°	175.7	169.1
82.5°	147.9	141.3
85°	99.1	89.8
87.5°	44.9	39.6
90°	0.0	0.0

(END OF REPORT)