

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: P158035

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158035
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18003 lumens
Efficiency: N/A
Efficacy: 99.7 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

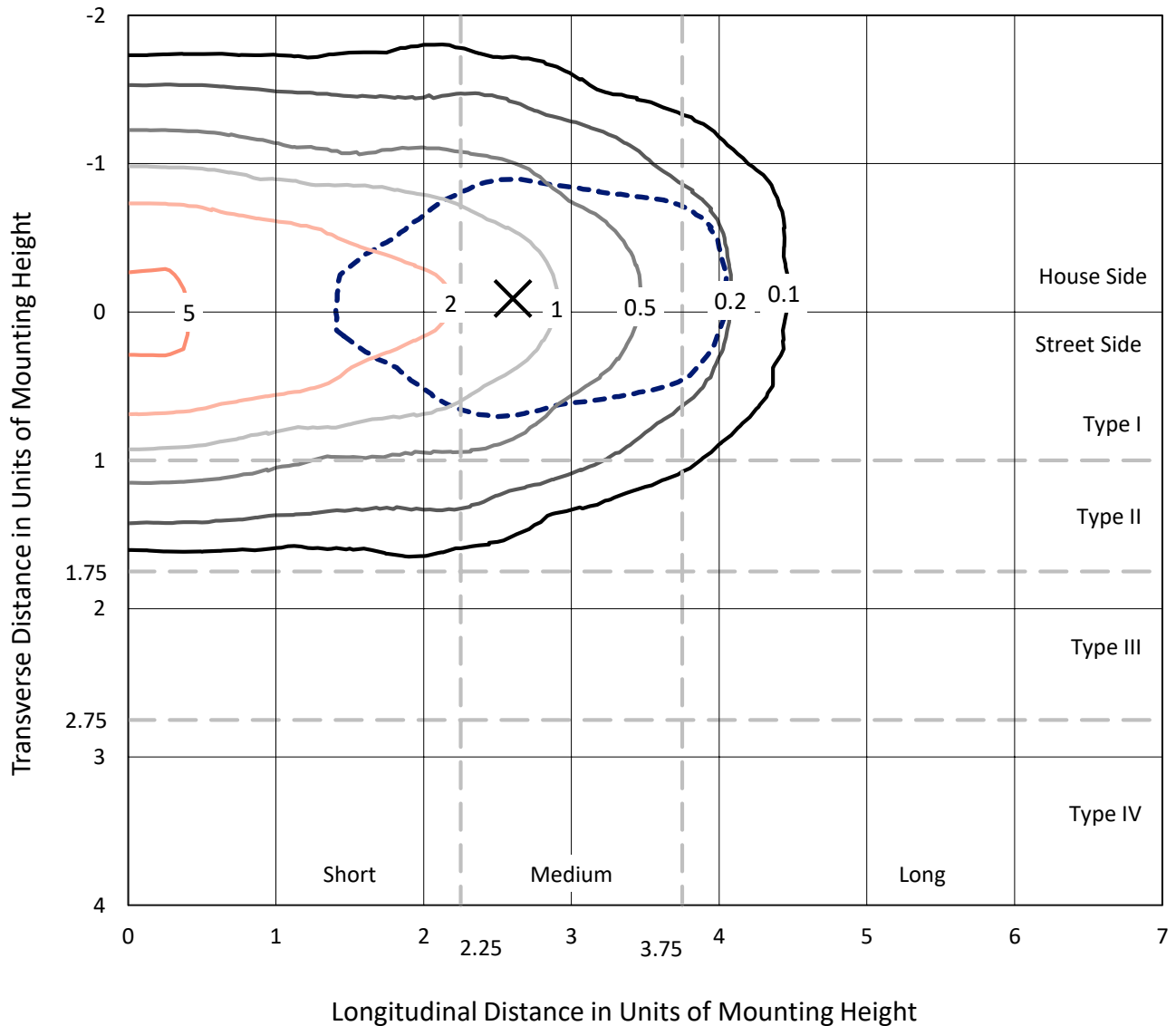
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

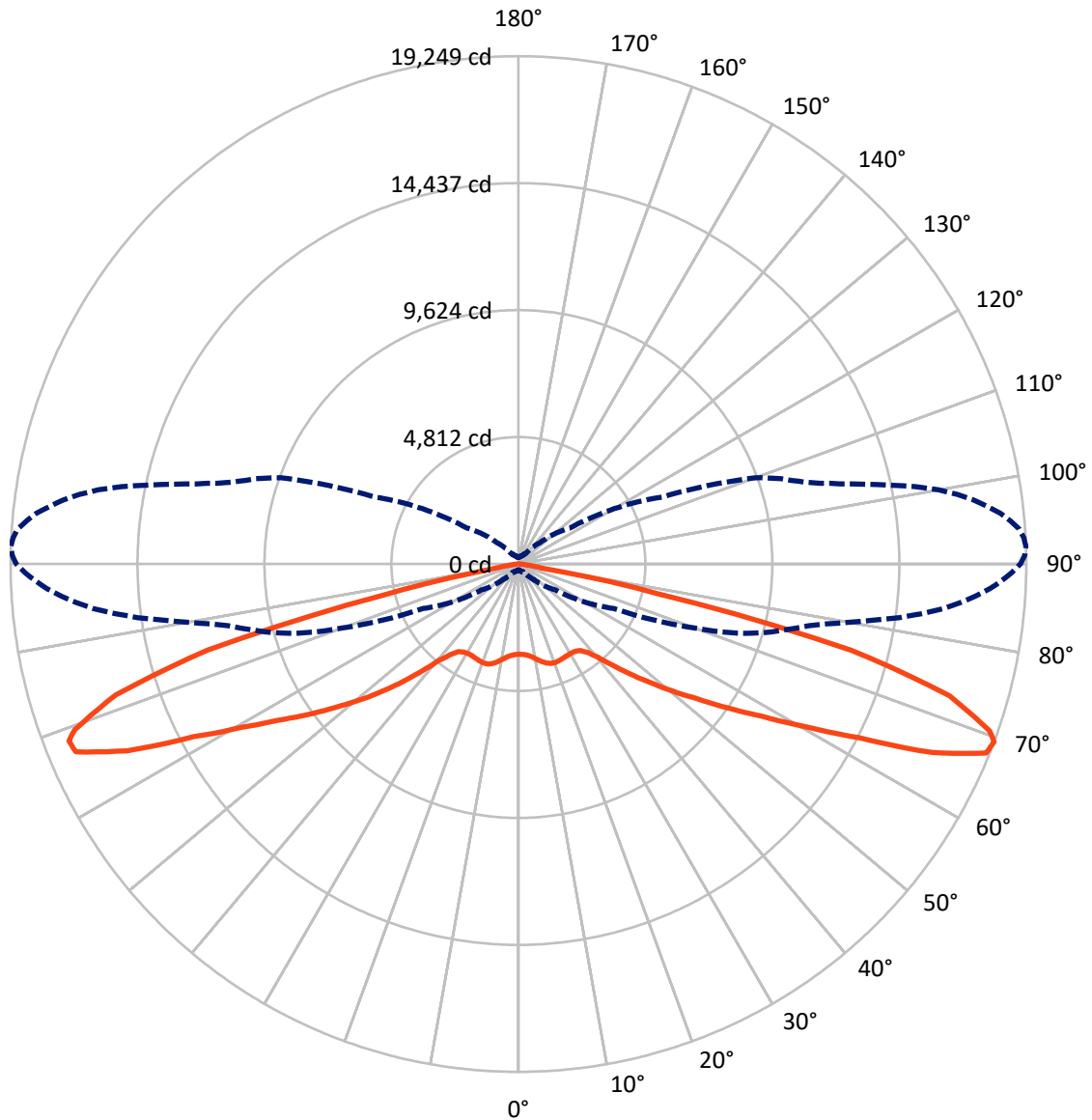
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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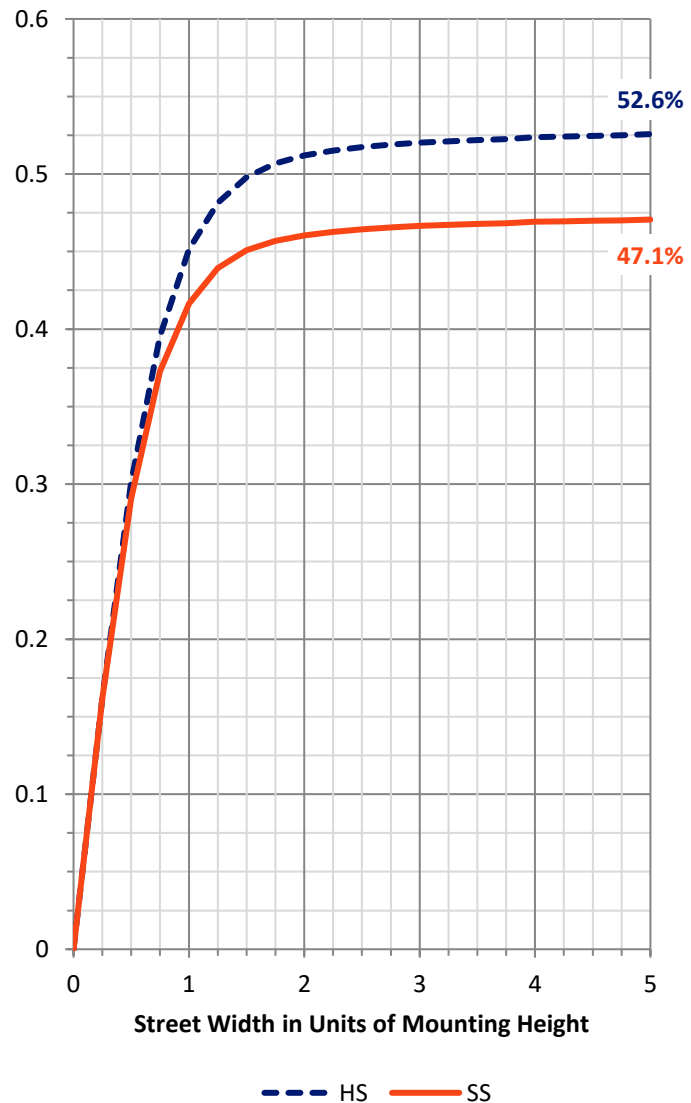
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9547.9	0.0	9547.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	8455.1	0.0	8455.1
	% Fixture	47.0	0.0	47.0
Total	Lumens	18003.0	0.0	18003.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.6	1.9
10°-20°	1057.1	5.9
20°-30°	1715.1	9.5
30°-40°	2137.4	11.9
40°-50°	2661.3	14.8
50°-60°	3282.1	18.2
60°-70°	4076.1	22.6
70°-80°	2504.5	13.9
80°-90°	234.7	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°	18003.0	100.0
0°-180°	18003.0	100.0



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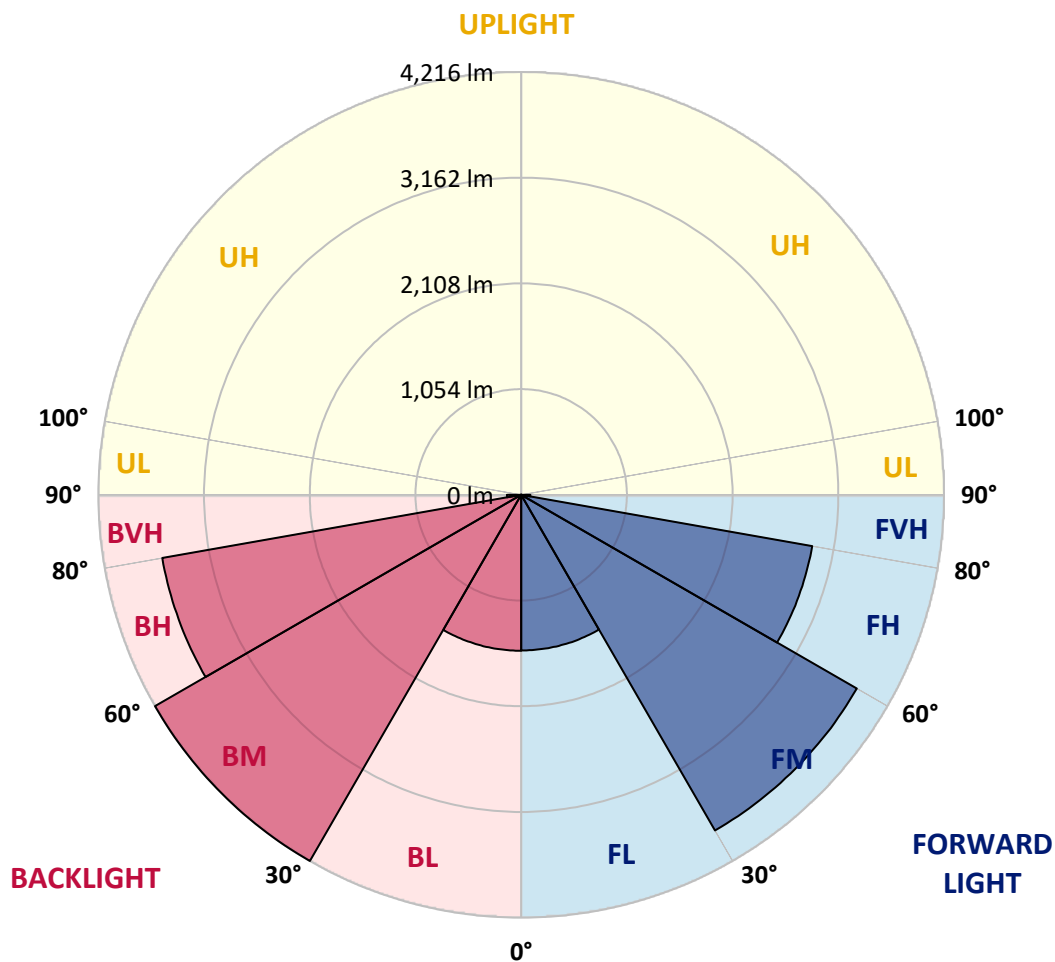
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.8	8.6			
FM	(30°-60°)	3864.5	21.5			
FH	(60°-80°)	2946.9	16.4			G2/5000
FVH	(80°-90°)	91.9	0.5			G1/100
BL	(0°-30°)	1555.0	8.6	B3/2500		
BM	(30°-60°)	4216.3	23.4	B3/5000		
BH	(60°-80°)	3633.8	20.2	B4/5000		G4/5000
BVH	(80°-90°)	142.8	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°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3474.1	3464.9	3473.0	3474.1	3473.0	3473.0	3462.6	3460.3	3446.4	3449.9	3448.7
5°	3521.5	3518.1	3523.8	3526.1	3528.5	3523.8	3515.7	3512.3	3503.0	3499.6	3498.4
7.5°	3565.4	3559.7	3568.9	3577.0	3582.8	3583.9	3585.1	3579.3	3579.3	3574.7	3574.7
10°	3602.4	3597.8	3612.8	3623.2	3641.7	3652.1	3663.7	3671.8	3676.4	3677.5	3676.4
12.5°	3618.6	3615.1	3639.4	3670.6	3705.3	3729.6	3758.4	3779.3	3785.0	3783.9	3789.7
15°	3590.9	3593.2	3630.2	3691.4	3765.4	3826.6	3867.1	3884.4	3889.0	3891.4	3892.5
17.5°	3515.7	3520.4	3573.5	3672.9	3802.4	3913.3	3973.4	3973.4	3964.2	3964.2	3963.0
20°	3395.5	3400.2	3469.5	3612.8	3803.5	3973.4	4058.9	4041.6	4006.9	4000.0	3993.1
22.5°	3229.1	3247.6	3323.9	3490.3	3753.8	3990.8	4112.1	4086.7	4032.4	4017.3	4006.9
25°	3040.7	3038.4	3129.7	3317.0	3633.6	3949.1	4127.1	4122.5	4064.7	4048.5	4030.0
27.5°	2825.8	2832.7	2917.1	3106.6	3449.9	3828.9	4101.7	4163.0	4115.6	4099.4	4082.1
30°	2605.0	2612.0	2691.7	2912.5	3240.7	3656.7	4049.7	4202.3	4183.8	4171.0	4159.5
32.5°	2383.1	2385.4	2480.2	2717.1	3063.9	3451.0	3971.1	4238.1	4263.5	4257.7	4253.1
35°	2175.1	2177.4	2280.3	2520.7	2889.3	3275.4	3876.3	4290.1	4372.1	4379.1	4383.7
37.5°	1972.8	1976.3	2081.5	2333.4	2717.1	3142.4	3771.2	4369.8	4524.7	4550.1	4554.8
40°	1771.7	1775.2	1875.8	2142.7	2542.6	3025.7	3690.3	4481.9	4730.4	4765.1	4800.9
42.5°	1579.9	1592.6	1678.1	1933.5	2348.5	2881.2	3655.6	4618.3	4974.3	5028.6	5069.1
45°	1400.8	1401.9	1499.0	1738.2	2118.5	2685.9	3632.5	4773.2	5247.0	5329.1	5384.6
47.5°	1208.9	1222.8	1324.5	1556.8	1903.5	2444.4	3558.5	4954.6	5544.1	5640.0	5752.1
50°	1022.8	1042.5	1140.7	1370.7	1707.0	2194.7	3359.7	5167.3	5878.1	6002.9	6132.3
52.5°	843.7	842.5	946.5	1185.8	1509.4	1983.2	3037.3	5390.3	6264.1	6398.1	6538.0
55°	638.0	638.0	740.8	959.3	1295.6	1794.9	2691.7	5529.0	6622.4	6784.2	6936.7
57.5°	438.0	449.6	546.7	735.0	1072.5	1622.7	2427.0	5449.3	6896.3	7097.4	7278.8
60°	324.8	336.3	408.0	528.2	839.1	1419.2	2228.3	5073.7	7061.5	7328.5	7564.3
62.5°	280.8	288.9	357.1	423.0	604.4	1203.1	2052.6	4596.4	7299.6	7664.8	7993.1
65°	250.8	258.9	327.1	365.2	472.7	967.4	1954.3	4323.6	7583.9	8142.2	8618.3
67.5°	232.3	241.5	299.3	327.1	412.6	874.9	1878.1	4260.0	7581.6	8258.9	8866.8
69°	223.1	230.0	277.4	307.4	398.7	847.2	1712.8	3983.8	7081.2	7808.1	8418.4
70°	217.3	224.2	264.7	294.7	394.1	797.5	1560.2	3618.6	6511.4	7243.0	7862.5
72.5°	198.8	205.7	235.8	263.5	328.2	532.8	1087.5	2316.1	4653.0	5175.4	5883.8
75°	175.7	183.8	206.9	230.0	248.5	308.6	627.6	1202.0	2660.5	3056.9	3688.0
77.5°	143.3	151.4	175.7	212.7	210.3	234.6	408.0	738.5	1245.9	1545.2	1778.7
80°	117.9	123.7	144.5	215.0	172.2	196.5	330.5	605.6	877.2	969.7	1025.1
82.5°	78.6	86.7	112.1	168.7	131.8	139.8	247.3	566.3	742.0	813.6	880.7
85°	37.0	40.5	68.2	90.1	79.7	75.1	141.0	399.9	552.4	586.0	611.4
87.5°	0.0	0.0	3.5	6.9	10.4	10.4	25.4	84.4	154.9	187.2	184.9
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°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3444.1	3445.2	3444.1	3444.1	3442.9	3440.6	3440.6	3438.3	3439.5	3438.3	3440.6
5°	3497.3	3497.3	3493.8	3491.5	3494.9	3491.5	3492.6	3486.9	3486.9	3483.4	3478.8
7.5°	3573.5	3573.5	3574.7	3567.8	3572.4	3573.5	3570.1	3567.8	3565.4	3559.7	3560.8
10°	3675.2	3675.2	3678.7	3669.5	3674.1	3676.4	3677.5	3677.5	3675.2	3664.8	3666.0
12.5°	3788.5	3786.2	3787.3	3782.7	3787.3	3789.7	3792.0	3789.7	3789.7	3787.3	3786.2
15°	3891.4	3890.2	3892.5	3889.0	3890.2	3892.5	3899.4	3898.3	3897.1	3890.2	3890.2
17.5°	3961.9	3958.4	3956.1	3954.9	3954.9	3953.8	3954.9	3954.9	3951.5	3950.3	3950.3
20°	3988.4	3979.2	3973.4	3969.9	3965.3	3963.0	3960.7	3961.9	3959.5	3956.1	3957.2
22.5°	3993.1	3980.4	3968.8	3958.4	3949.1	3943.4	3937.6	3935.3	3929.5	3926.0	3926.0
25°	4015.0	3995.4	3976.9	3959.5	3945.7	3933.0	3920.3	3911.0	3904.1	3896.0	3893.7
27.5°	4063.6	4042.8	4020.8	3998.8	3980.4	3954.9	3937.6	3919.1	3902.9	3890.2	3881.0
30°	4138.7	4117.9	4095.9	4070.5	4046.2	4019.6	3990.8	3968.8	3945.7	3920.3	3906.4
32.5°	4238.1	4224.2	4202.3	4178.0	4156.0	4128.3	4093.6	4060.1	4038.1	4008.1	3986.1
35°	4380.2	4364.1	4357.1	4346.7	4324.8	4307.4	4269.3	4238.1	4217.3	4175.7	4159.5
37.5°	4574.4	4573.2	4579.0	4575.6	4579.0	4557.1	4539.7	4538.6	4508.5	4468.1	4428.8
40°	4839.1	4852.9	4884.1	4906.1	4926.9	4929.2	4953.5	4928.1	4931.5	4925.7	4885.3
42.5°	5140.7	5188.1	5225.1	5289.8	5339.5	5385.7	5416.9	5459.7	5492.1	5520.9	5527.9
45°	5477.0	5547.5	5633.1	5690.8	5787.9	5865.4	5971.7	6053.7	6139.3	6223.6	6253.7
47.5°	5842.2	5930.1	6024.8	6132.3	6254.8	6376.2	6540.3	6666.3	6803.8	6918.2	7019.9
50°	6245.6	6336.9	6464.0	6587.7	6756.4	6896.3	7111.2	7276.5	7498.4	7651.0	7782.7
52.5°	6666.3	6780.7	6922.9	7059.2	7231.4	7410.6	7649.8	7893.7	8160.6	8391.8	8583.6
55°	7077.7	7218.7	7355.1	7514.6	7705.3	7913.3	8183.8	8505.1	8837.9	9102.6	9356.8
57.5°	7444.1	7607.0	7767.7	7929.5	8124.8	8366.4	8670.3	9017.0	9398.4	9750.9	10100.0
60°	7783.9	7979.2	8175.7	8377.9	8602.1	8900.3	9265.5	9692.0	10185.5	10667.4	11123.9
62.5°	8321.3	8577.9	8821.7	9082.9	9353.4	9703.6	10134.6	10694.0	11260.3	11862.5	12330.5
65°	9049.4	9410.0	9729.0	10067.6	10417.8	10885.9	11401.3	12070.5	12881.8	13499.0	14250.2
67.5°	9411.1	9886.2	10296.4	10673.2	11106.6	11579.3	12191.8	12983.5	13849.2	14743.7	15581.6
69°	8985.8	9475.9	9930.1	10351.9	10789.9	11248.8	11889.0	12701.5	13616.9	14584.2	15402.5
70°	8434.6	8924.6	9408.8	9889.6	10289.5	10736.8	11379.4	12217.3	13131.5	14136.9	14948.3
72.5°	6461.7	7051.1	7489.2	7939.9	8403.3	8782.4	9524.4	10230.6	11182.9	12203.4	13096.8
75°	4134.1	4676.1	5154.6	5538.3	5991.3	6445.5	6993.4	7778.1	8374.5	9212.4	9937.0
77.5°	2124.2	2284.9	2746.0	2883.6	3197.9	3445.2	3746.9	3943.4	4428.8	4531.6	4959.3
80°	1006.6	907.3	854.1	805.5	819.4	813.6	789.4	757.0	797.5	780.1	773.2
82.5°	877.2	782.4	624.1	530.5	458.8	389.5	335.2	307.4	310.9	320.1	323.6
85°	614.9	577.9	450.7	342.1	267.0	206.9	166.4	159.5	164.1	176.8	172.2
87.5°	178.0	186.1	164.1	114.4	79.7	57.8	45.1	50.9	48.5	47.4	49.7
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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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3440.6	3439.5	3436.0	3432.5	3432.5	3430.2	3432.5	3433.7	3432.5	3432.5	3430.2
5°	3479.9	3481.1	3484.5	3477.6	3476.5	3477.6	3473.0	3471.8	3468.4	3471.8	3467.2
7.5°	3555.0	3558.5	3558.5	3553.9	3552.7	3556.2	3549.3	3547.0	3543.5	3542.3	3541.2
10°	3667.1	3670.6	3664.8	3661.4	3657.9	3662.5	3656.7	3656.7	3653.3	3649.8	3648.7
12.5°	3792.0	3789.7	3787.3	3789.7	3786.2	3786.2	3782.7	3780.4	3779.3	3778.1	3775.8
15°	3889.0	3897.1	3897.1	3899.4	3897.1	3897.1	3892.5	3893.7	3891.4	3890.2	3891.4
17.5°	3951.5	3953.8	3959.5	3963.0	3963.0	3964.2	3961.9	3964.2	3961.9	3961.9	3966.5
20°	3959.5	3961.9	3967.6	3973.4	3976.9	3979.2	3979.2	3982.7	3985.0	3987.3	3993.1
22.5°	3927.2	3930.7	3937.6	3948.0	3953.8	3956.1	3960.7	3966.5	3972.3	3976.9	3985.0
25°	3893.7	3894.8	3901.8	3912.2	3919.1	3924.9	3933.0	3939.9	3948.0	3957.2	3966.5
27.5°	3875.2	3874.0	3879.8	3890.2	3896.0	3904.1	3911.0	3921.4	3930.7	3942.2	3950.3
30°	3891.4	3882.1	3883.3	3887.9	3892.5	3898.3	3906.4	3915.6	3926.0	3936.4	3945.7
32.5°	3963.0	3942.2	3928.3	3924.9	3926.0	3927.2	3931.8	3937.6	3945.7	3953.8	3957.2
35°	4117.9	4082.1	4063.6	4048.5	4035.8	4025.4	4027.7	4026.6	4026.6	4033.5	4025.4
37.5°	4412.6	4367.5	4347.9	4321.3	4306.3	4268.1	4257.7	4255.4	4240.4	4240.4	4223.1
40°	4874.9	4848.3	4833.3	4809.0	4736.2	4745.4	4693.4	4694.6	4651.8	4656.5	4626.4
42.5°	5532.5	5536.0	5517.5	5501.3	5444.7	5419.2	5370.7	5301.4	5247.0	5245.9	5185.8
45°	6293.0	6334.6	6275.6	6296.4	6246.7	6178.6	6121.9	6032.9	5948.6	5922.0	5860.7
47.5°	7088.1	7156.3	7111.2	7119.3	7095.1	6998.0	6921.7	6811.9	6702.1	6628.1	6591.2
50°	7937.6	7982.7	7981.5	7959.5	7948.0	7853.2	7730.7	7647.5	7566.6	7467.2	7434.8
52.5°	8707.3	8812.5	8883.0	8866.8	8833.3	8776.7	8668.0	8596.4	8477.3	8463.4	8477.3
55°	9531.3	9667.7	9739.4	9826.1	9827.2	9816.8	9771.7	9745.2	9634.2	9646.9	9630.7
57.5°	10311.5	10511.4	10621.2	10806.1	10869.7	10954.1	10922.9	10957.5	10890.5	10934.4	10921.7
60°	11369.0	11646.3	11828.9	12082.1	12199.9	12411.4	12453.0	12478.5	12515.5	12605.6	12554.7
62.5°	12699.2	13106.0	13485.1	13829.5	13942.8	14260.6	14312.6	14511.4	14521.8	14583.1	14471.0
65°	14876.6	15372.4	15789.7	16202.2	16440.3	16812.5	16962.7	17348.7	17230.9	17280.5	17041.3
67.5°	16302.8	16879.5	17438.9	17829.5	18224.8	18605.0	18878.9	19128.6	19126.3	19077.7	18865.1
69°	16176.8	16819.4	17370.7	17894.2	18310.3	18700.9	19030.3	19192.1	19248.8	19178.3	19026.9
70°	15741.1	16401.0	17076.0	17507.1	17960.1	18388.9	18728.7	18905.5	18944.8	18895.1	18764.5
72.5°	13727.8	14361.2	15105.5	15497.2	16045.1	16354.8	16822.9	17051.7	17092.2	17028.6	16943.1
75°	10713.7	10828.1	11586.2	11835.9	12233.5	12590.6	12881.8	12807.9	13014.7	12974.3	12941.9
77.5°	5047.1	4742.0	5233.2	5462.0	5341.8	5021.7	5487.4	5151.1	5374.2	5664.3	5590.3
80°	832.1	829.8	851.8	900.3	842.5	894.5	893.4	868.0	870.3	932.7	900.3
82.5°	320.1	327.1	330.5	339.8	339.8	340.9	346.7	353.7	347.9	359.4	357.1
85°	173.4	184.9	174.5	166.4	172.2	175.7	180.3	186.1	180.3	197.6	188.4
87.5°	45.1	47.4	41.6	41.6	40.5	37.0	37.0	39.3	42.8	50.9	55.5
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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CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3425.6	3426.8	3427.9	3424.4	3422.1	3422.1	3421.0	3418.7	3417.5	3417.5	3417.5
5°	3464.9	3467.2	3461.4	3460.3	3458.0	3455.6	3455.6	3453.3	3454.5	3454.5	3448.7
7.5°	3543.5	3540.0	3533.1	3528.5	3533.1	3525.0	3521.5	3523.8	3521.5	3522.7	3520.4
10°	3648.7	3648.7	3640.6	3645.2	3639.4	3630.2	3633.6	3630.2	3627.9	3619.8	3624.4
12.5°	3779.3	3775.8	3771.2	3760.8	3757.3	3756.1	3745.7	3746.9	3743.4	3741.1	3737.6
15°	3893.7	3892.5	3882.1	3876.3	3875.2	3870.6	3865.9	3863.6	3857.8	3856.7	3854.4
17.5°	3969.9	3966.5	3961.9	3956.1	3956.1	3949.1	3946.8	3941.1	3939.9	3936.4	3933.0
20°	3995.4	3996.5	3991.9	3987.3	3985.0	3980.4	3976.9	3972.3	3969.9	3965.3	3961.9
22.5°	3989.6	3989.6	3985.0	3983.8	3979.2	3972.3	3967.6	3961.9	3956.1	3950.3	3943.4
25°	3971.1	3969.9	3966.5	3960.7	3954.9	3944.5	3935.3	3926.0	3917.9	3911.0	3900.6
27.5°	3954.9	3952.6	3945.7	3937.6	3926.0	3914.5	3897.1	3884.4	3874.0	3864.8	3853.2
30°	3949.1	3941.1	3930.7	3917.9	3904.1	3886.7	3868.2	3852.1	3840.5	3831.3	3826.6
32.5°	3956.1	3945.7	3929.5	3913.3	3896.0	3875.2	3856.7	3842.8	3832.4	3830.1	3830.1
35°	4019.6	4002.3	3980.4	3957.2	3935.3	3917.9	3905.2	3904.1	3897.1	3905.2	3917.9
37.5°	4205.7	4190.7	4157.2	4127.1	4112.1	4104.0	4092.5	4094.8	4078.6	4104.0	4124.8
40°	4601.0	4582.5	4543.2	4518.9	4488.9	4460.0	4483.1	4476.2	4487.7	4483.1	4505.1
42.5°	5177.7	5159.2	5096.8	5087.5	5074.8	5063.3	5063.3	5054.0	5049.4	5065.6	5047.1
45°	5879.2	5842.2	5819.1	5846.9	5808.7	5820.3	5860.7	5806.4	5819.1	5744.0	5674.7
47.5°	6607.3	6603.9	6598.1	6631.6	6637.4	6654.7	6676.7	6621.2	6520.7	6464.0	6323.0
50°	7445.2	7481.1	7494.9	7527.3	7541.2	7553.9	7519.2	7437.2	7267.3	7117.0	6950.6
52.5°	8463.4	8401.0	8486.6	8517.8	8503.9	8453.0	8328.2	8227.7	7993.1	7776.9	7519.2
55°	9649.2	9664.3	9604.2	9579.9	9532.5	9391.5	9219.3	8992.8	8695.7	8413.8	8087.8
57.5°	10857.0	10851.2	10757.6	10625.8	10465.2	10295.3	10038.7	9714.0	9367.2	8988.2	8594.0
60°	12325.9	12320.1	12130.6	11905.2	11676.4	11402.5	11000.3	10609.6	10145.0	9646.9	9177.7
62.5°	14256.0	14007.5	13821.4	13485.1	13131.5	12773.2	12228.8	11709.9	11089.3	10460.6	9912.7
65°	16729.3	16320.1	16108.6	15620.9	15073.1	14513.7	13960.1	13278.2	12442.6	11682.2	11013.0
67.5°	18558.8	18184.3	17797.2	17310.6	16709.6	16085.5	15327.4	14468.6	13519.8	12666.9	11937.6
69°	18719.4	18369.3	17904.6	17416.9	16848.3	16169.9	15342.4	14380.8	13419.2	12555.9	11838.2
70°	18475.6	18103.4	17614.6	17107.2	16471.5	15831.3	14964.5	13962.4	12999.7	12134.1	11433.7
72.5°	16656.5	16293.6	15773.5	15166.7	14514.9	13967.1	13144.2	12099.4	11052.3	10252.5	9707.0
75°	12665.7	12586.0	12217.3	11863.6	11350.5	10739.1	9986.7	9284.0	8425.3	7579.3	7070.8
77.5°	5404.2	5588.0	5779.8	5807.6	5826.1	5637.7	5520.9	5344.1	4769.7	4508.5	4239.2
80°	998.6	892.2	952.3	959.3	998.6	1019.4	1095.6	1299.0	1322.2	1371.9	1433.1
82.5°	354.8	360.6	369.8	373.3	376.8	390.6	442.6	530.5	610.2	714.2	852.9
85°	201.1	204.6	212.7	219.6	224.2	238.1	267.0	319.0	397.6	516.6	700.4
87.5°	61.3	69.3	74.0	83.2	86.7	89.0	101.7	136.4	175.7	260.0	379.1
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

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3417.5	3416.4	3414.0	3411.7	3412.9	3410.6	3403.6	3401.3	3393.2	3387.5	3382.8
5°	3448.7	3447.6	3442.9	3444.1	3442.9	3431.4	3423.3	3409.4	3401.3	3388.6	3384.0
7.5°	3513.4	3512.3	3504.2	3507.7	3505.3	3488.0	3474.1	3452.2	3440.6	3424.4	3411.7
10°	3610.5	3610.5	3601.3	3602.4	3602.4	3579.3	3555.0	3518.1	3491.5	3466.0	3444.1
12.5°	3728.4	3723.8	3722.6	3716.8	3712.2	3686.8	3649.8	3600.1	3550.4	3508.8	3478.8
15°	3847.4	3840.5	3837.0	3830.1	3824.3	3801.2	3751.5	3690.3	3623.2	3556.2	3506.5
17.5°	3924.9	3920.3	3913.3	3911.0	3902.9	3879.8	3845.1	3783.9	3700.7	3607.0	3531.9
20°	3953.8	3945.7	3941.1	3936.4	3931.8	3915.6	3915.6	3876.3	3783.9	3652.1	3537.7
22.5°	3935.3	3930.7	3923.7	3920.3	3915.6	3917.9	3963.0	3957.2	3850.9	3662.5	3496.1
25°	3892.5	3886.7	3881.0	3881.0	3879.8	3904.1	4012.7	4027.7	3870.6	3611.7	3404.8
27.5°	3848.6	3840.5	3842.8	3844.0	3849.8	3901.8	4067.0	4046.2	3817.4	3489.2	3247.6
30°	3822.0	3822.0	3827.8	3837.0	3848.6	3939.9	4109.8	4004.6	3679.9	3304.2	3039.6
32.5°	3833.6	3845.1	3857.8	3881.0	3898.3	4024.3	4124.8	3897.1	3479.9	3075.4	2822.3
35°	3936.4	3950.3	3974.6	4010.4	4031.2	4145.6	4124.8	3740.0	3247.6	2878.9	2598.1
37.5°	4160.6	4174.5	4203.4	4231.1	4251.9	4298.2	4107.5	3540.0	3053.5	2675.5	2397.0
40°	4521.2	4540.9	4561.7	4557.1	4543.2	4498.1	4072.8	3353.9	2874.3	2497.5	2199.4
42.5°	5028.6	5010.1	5007.8	4962.7	4916.5	4723.5	4047.4	3232.6	2720.6	2310.3	2002.9
45°	5614.6	5539.4	5462.0	5401.9	5331.4	4970.8	4040.4	3134.4	2550.7	2102.3	1789.1
47.5°	6204.0	6083.8	5933.5	5839.9	5725.5	5234.3	4061.3	3002.6	2332.3	1875.8	1589.1
50°	6781.9	6585.4	6399.3	6287.2	6157.8	5537.1	4094.8	2780.7	2071.1	1670.0	1406.5
52.5°	7317.0	7063.9	6873.2	6741.4	6583.1	5889.6	4064.7	2489.5	1844.6	1472.4	1233.2
55°	7825.5	7545.8	7348.2	7209.5	7023.4	6243.3	3847.4	2224.8	1628.4	1279.4	1037.8
57.5°	8270.4	8002.3	7796.6	7608.2	7451.0	6550.7	3418.7	2006.4	1420.4	1058.7	826.4
60°	8790.5	8488.9	8245.0	8043.9	7859.0	6709.0	2937.9	1812.2	1198.5	819.4	597.5
62.5°	9492.1	9145.3	8863.3	8633.3	8391.8	6743.7	2609.6	1618.0	951.2	592.9	434.6
65°	10532.2	10104.6	9752.1	9435.4	9108.3	6600.4	2447.8	1406.5	707.3	440.3	364.1
67.5°	11358.6	10914.8	10506.8	10100.0	9681.6	6334.6	2412.0	1211.2	543.2	374.5	327.1
69°	11258.0	10835.0	10460.6	10020.2	9556.8	6000.6	2376.2	1136.1	495.8	347.9	309.7
70°	10870.8	10469.8	10089.6	9731.3	9163.8	5628.4	2281.4	1094.5	477.3	335.2	297.0
72.5°	9185.8	8721.2	8352.5	7906.4	7308.9	4182.6	1730.1	885.3	438.0	306.3	268.1
75°	6699.8	6314.9	5947.4	5453.9	4872.6	2420.1	1077.1	506.2	321.3	277.4	242.7
77.5°	3912.2	3825.5	3470.7	3145.9	2570.4	1232.0	618.3	302.8	249.6	252.0	213.8
80°	1472.4	1568.3	1604.2	1492.1	1378.8	850.6	449.6	246.2	217.3	248.5	181.5
82.5°	1073.7	1245.9	1266.7	1213.5	1129.2	792.8	359.4	197.6	176.8	267.0	156.0
85°	895.7	991.6	1006.6	951.2	923.4	671.5	250.8	138.7	129.4	191.9	116.7
87.5°	453.0	477.3	490.0	443.8	446.1	313.2	100.5	58.9	70.5	82.1	64.7
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: P158035

CATALOG NUMBER: VST-F07-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3419.8	3419.8
2.5°	3372.4	3379.4
5°	3377.1	3377.1
7.5°	3403.6	3403.6
10°	3432.5	3433.7
12.5°	3459.1	3458.0
15°	3479.9	3476.5
17.5°	3492.6	3489.2
20°	3479.9	3474.1
22.5°	3415.2	3399.0
25°	3297.3	3276.5
27.5°	3141.3	3127.4
30°	2937.9	2917.1
32.5°	2699.8	2689.4
35°	2472.1	2459.4
37.5°	2264.1	2260.6
40°	2088.4	2069.9
42.5°	1882.7	1874.6
45°	1673.5	1668.9
47.5°	1477.0	1472.4
50°	1295.6	1286.3
52.5°	1117.6	1102.6
55°	920.0	909.6
57.5°	706.2	696.9
60°	497.0	486.6
62.5°	353.7	342.1
65°	294.7	285.5
67.5°	267.0	256.6
69°	254.3	245.0
70°	246.2	239.2
72.5°	228.8	224.2
75°	209.2	205.7
77.5°	183.8	178.0
80°	153.7	147.9
82.5°	129.4	123.7
85°	86.7	78.6
87.5°	39.3	34.7
90°	0.0	0.0

(END OF REPORT)