

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: P158036

Luminaire Tested: **VST-F07-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158036
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (49) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18472.9 lumens
Efficiency: N/A
Efficacy: 102.3 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

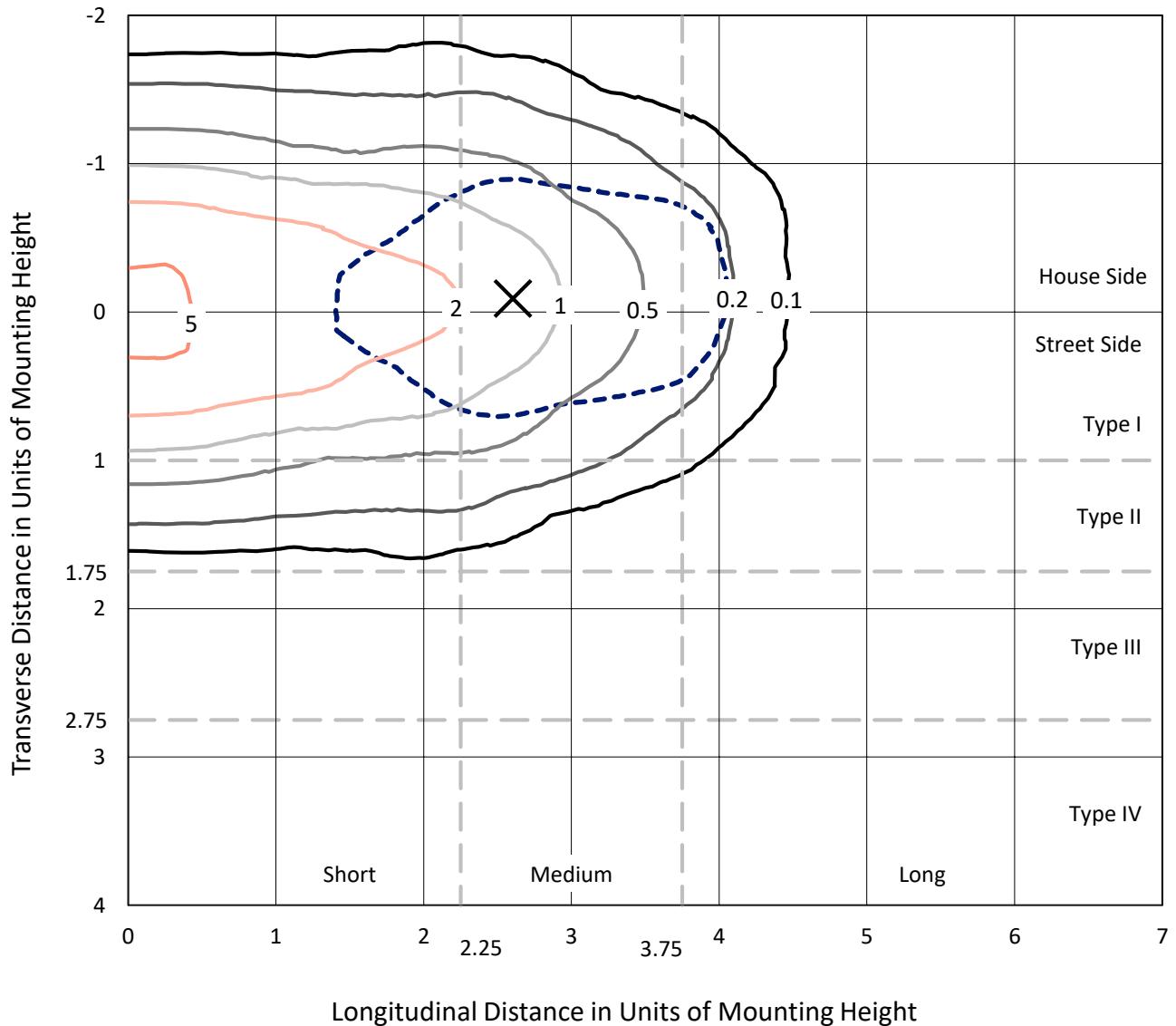
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

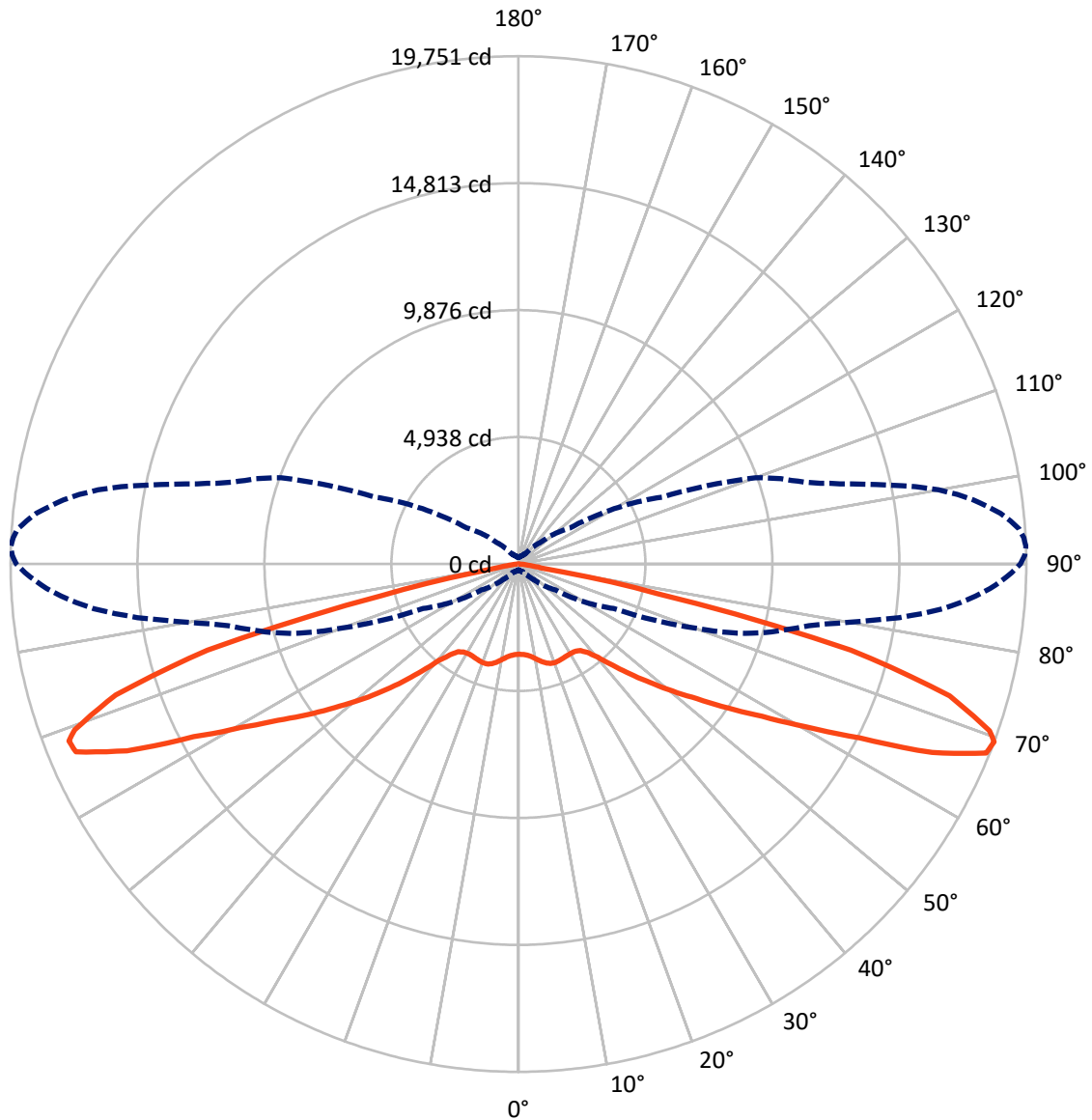
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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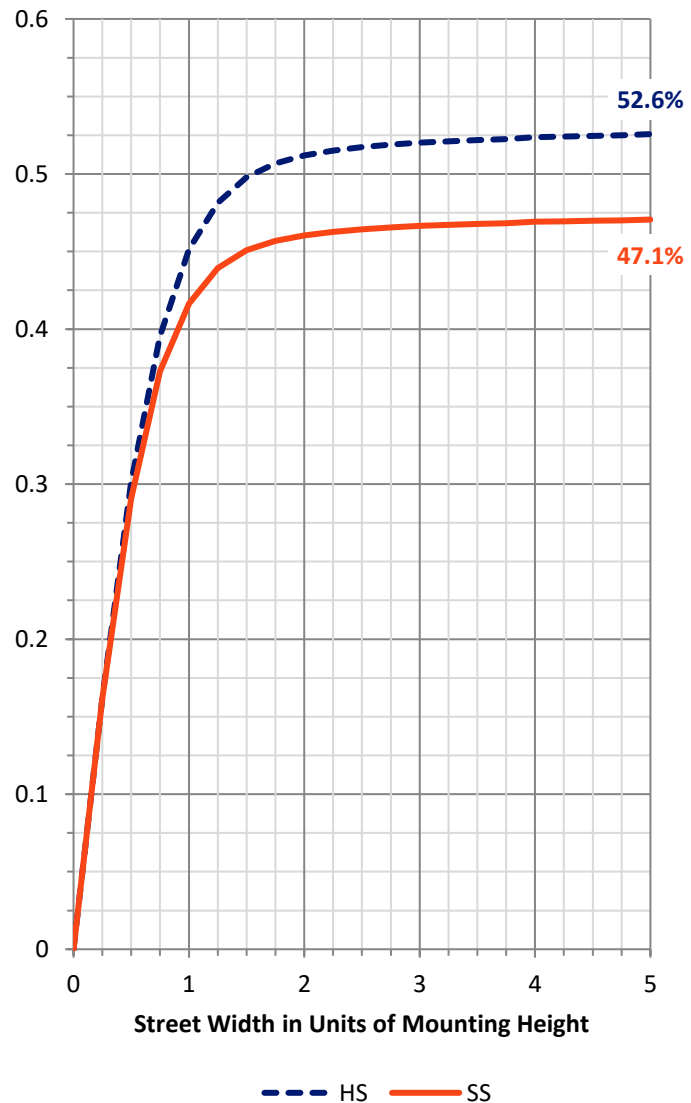
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9797.2	0.0	9797.2
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	8675.8	0.0	8675.8
	% Fixture	47.0	0.0	47.0
Total	Lumens	18472.9	0.0	18472.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	1.9
10°-20°	1084.7	5.9
20°-30°	1759.8	9.5
30°-40°	2193.2	11.9
40°-50°	2730.8	14.8
50°-60°	3367.7	18.2
60°-70°	4182.5	22.6
70°-80°	2569.9	13.9
80°-90°	240.9	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°	18472.9	100.0
0°-180°	18472.9	100.0



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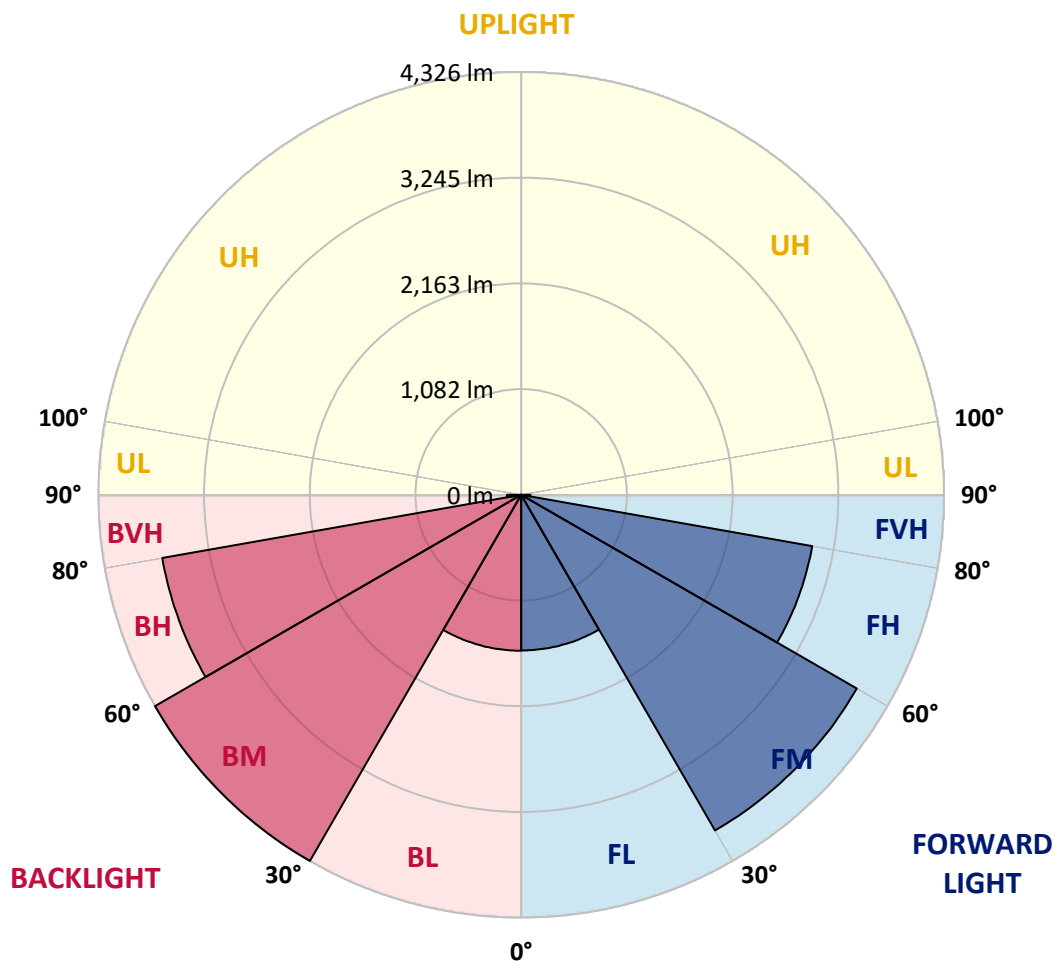
CATALOG NUMBER: VST-F07-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.3	8.6			
FM (30°-60°)	3965.4	21.5			
FH (60°-80°)	3023.8	16.4			G2/5000
FVH (80°-90°)	94.3	0.5			G1/100
BL (0°-30°)	1595.6	8.6	B3/2500		
BM (30°-60°)	4326.3	23.4	B3/5000		
BH (60°-80°)	3728.7	20.2	B4/5000		G4/5000
BVH (80°-90°)	146.6	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°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	3564.8	3555.3	3563.6	3564.8	3563.6	3563.6	3553.0	3550.6	3536.4	3539.9	3538.7
5°	3613.5	3609.9	3615.8	3618.2	3620.6	3615.8	3607.5	3604.0	3594.5	3590.9	3589.7
7.5°	3658.5	3652.6	3662.1	3670.4	3676.3	3677.5	3678.7	3672.8	3672.8	3668.0	3668.0
10°	3696.5	3691.7	3707.1	3717.8	3736.8	3747.5	3759.3	3767.6	3772.4	3773.6	3772.4
12.5°	3713.1	3709.5	3734.4	3766.4	3802.0	3826.9	3856.6	3877.9	3883.8	3882.7	3888.6
15°	3684.6	3687.0	3724.9	3787.8	3863.7	3926.5	3968.0	3985.8	3990.6	3992.9	3994.1
17.5°	3607.5	3612.3	3666.8	3768.8	3901.6	4015.5	4077.1	4077.1	4067.7	4067.7	4066.5
20°	3484.2	3488.9	3560.1	3707.1	3902.8	4077.1	4164.9	4147.1	4111.5	4104.4	4097.3
22.5°	3313.4	3332.4	3410.7	3581.4	3851.8	4094.9	4219.5	4193.4	4137.6	4122.2	4111.5
25°	3120.1	3117.7	3211.4	3403.5	3728.5	4052.2	4234.9	4230.1	4170.8	4154.2	4135.3
27.5°	2899.5	2906.7	2993.2	3187.7	3539.9	3928.9	4208.8	4271.6	4223.0	4206.4	4188.6
30°	2673.0	2680.1	2762.0	2988.5	3325.3	3752.2	4155.4	4312.0	4293.0	4279.9	4268.1
32.5°	2445.3	2447.7	2545.0	2788.1	3143.8	3541.1	4074.8	4348.7	4374.8	4368.9	4364.1
35°	2231.9	2234.2	2339.8	2586.5	2964.8	3360.9	3977.5	4402.1	4486.3	4493.4	4498.1
37.5°	2024.3	2027.9	2135.8	2394.3	2788.1	3224.5	3869.6	4483.9	4642.8	4668.9	4673.7
40°	1818.0	1821.6	1924.7	2198.7	2609.0	3104.7	3786.6	4598.9	4853.9	4889.5	4926.3
42.5°	1621.1	1634.2	1721.9	1984.0	2409.8	2956.5	3751.0	4738.9	5104.1	5159.9	5201.4
45°	1437.3	1438.5	1538.1	1783.6	2173.8	2756.0	3727.3	4897.8	5384.0	5468.2	5525.1
47.5°	1240.5	1254.7	1359.0	1597.4	1953.2	2508.2	3651.4	5084.0	5688.8	5787.2	5902.3
50°	1049.5	1069.7	1170.5	1406.5	1751.6	2252.0	3447.4	5302.2	6031.5	6159.6	6292.4
52.5°	865.7	864.5	971.3	1216.7	1548.8	2035.0	3116.6	5531.1	6427.6	6565.2	6708.7
55°	654.6	654.6	760.2	984.3	1329.4	1841.7	2762.0	5673.4	6795.2	6961.3	7117.8
57.5°	449.5	461.3	560.9	754.2	1100.5	1665.0	2490.4	5591.5	7076.3	7282.6	7468.8
60°	333.2	345.1	418.6	542.0	861.0	1456.3	2286.4	5206.1	7245.9	7519.8	7761.8
62.5°	288.2	296.5	366.4	434.0	620.2	1234.5	2106.2	4716.3	7490.2	7864.9	8201.7
65°	257.3	265.6	335.6	374.7	485.0	992.6	2005.4	4436.5	7781.9	8354.7	8843.3
67.5°	238.4	247.9	307.1	335.6	423.4	897.7	1927.1	4371.2	7779.5	8474.5	9098.3
69°	228.9	236.0	284.6	315.5	409.1	869.3	1757.5	4087.8	7266.0	8012.0	8638.1
70°	223.0	230.1	271.6	302.4	404.4	818.3	1601.0	3713.1	6681.4	7432.1	8067.7
72.5°	204.0	211.1	241.9	270.4	336.8	546.7	1115.9	2376.6	4774.5	5310.5	6037.4
75°	180.3	188.6	212.3	236.0	255.0	316.6	643.9	1233.3	2730.0	3136.7	3784.2
77.5°	147.1	155.4	180.3	218.2	215.8	240.7	418.6	757.8	1278.4	1585.6	1825.1
80°	121.0	126.9	148.2	220.6	176.7	201.6	339.2	621.4	900.1	995.0	1051.9
82.5°	80.6	88.9	115.0	173.1	135.2	143.5	253.8	581.1	761.4	834.9	903.7
85°	37.9	41.5	70.0	92.5	81.8	77.1	144.7	410.3	566.9	601.3	627.3
87.5°	0.0	0.0	3.6	7.1	10.7	10.7	26.1	86.6	158.9	192.1	189.7
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	3534.0	3535.2	3534.0	3534.0	3532.8	3530.4	3530.4	3528.1	3529.3	3528.1	3530.4
5°	3588.6	3588.6	3585.0	3582.6	3586.2	3582.6	3583.8	3577.9	3577.9	3574.3	3569.6
7.5°	3666.8	3666.8	3668.0	3660.9	3665.6	3666.8	3663.3	3660.9	3658.5	3652.6	3653.8
10°	3771.2	3771.2	3774.7	3765.3	3770.0	3772.4	3773.6	3773.6	3771.2	3760.5	3761.7
12.5°	3887.4	3885.0	3886.2	3881.5	3886.2	3888.6	3891.0	3888.6	3888.6	3886.2	3885.0
15°	3992.9	3991.8	3994.1	3990.6	3991.8	3994.1	4001.2	4000.1	3998.9	3991.8	3991.8
17.5°	4065.3	4061.7	4059.4	4058.2	4058.2	4057.0	4058.2	4058.2	4054.6	4053.4	4053.4
20°	4092.6	4083.1	4077.1	4073.6	4068.8	4066.5	4064.1	4065.3	4062.9	4059.4	4060.5
22.5°	4097.3	4084.3	4072.4	4061.7	4052.2	4046.3	4040.4	4038.0	4032.1	4028.5	4028.5
25°	4119.8	4099.7	4080.7	4062.9	4048.7	4035.6	4022.6	4013.1	4006.0	3997.7	3995.3
27.5°	4169.6	4148.3	4125.8	4103.2	4084.3	4058.2	4040.4	4021.4	4004.8	3991.8	3982.3
30°	4246.7	4225.4	4202.9	4176.8	4151.9	4124.6	4094.9	4072.4	4048.7	4022.6	4008.4
32.5°	4348.7	4334.5	4312.0	4287.0	4264.5	4236.1	4200.5	4166.1	4143.6	4112.7	4090.2
35°	4494.6	4478.0	4470.9	4460.2	4437.7	4419.9	4380.7	4348.7	4327.4	4284.7	4268.1
37.5°	4693.8	4692.6	4698.6	4695.0	4698.6	4676.0	4658.2	4657.1	4626.2	4584.7	4544.4
40°	4965.4	4979.6	5011.6	5034.2	5055.5	5057.9	5082.8	5056.7	5060.3	5054.3	5012.8
42.5°	5274.9	5323.5	5361.5	5427.9	5478.9	5526.3	5558.3	5602.2	5635.4	5665.1	5672.2
45°	5620.0	5692.3	5780.1	5839.4	5939.0	6018.5	6127.6	6211.8	6299.5	6386.1	6416.9
47.5°	5994.8	6084.9	6182.1	6292.4	6418.1	6542.6	6711.0	6840.3	6981.4	7098.8	7203.2
50°	6408.6	6502.3	6632.8	6759.7	6932.8	7076.3	7296.9	7466.5	7694.2	7850.7	7985.9
52.5°	6840.3	6957.7	7103.6	7243.5	7420.2	7604.0	7849.5	8099.7	8373.7	8610.9	8807.7
55°	7262.5	7407.2	7547.1	7710.8	7906.4	8119.9	8397.4	8727.1	9068.6	9340.2	9601.1
57.5°	7638.4	7805.6	7970.5	8136.5	8336.9	8584.8	8896.7	9252.4	9643.8	10005.5	10363.6
60°	7987.1	8187.5	8389.1	8596.6	8826.7	9132.7	9507.4	9945.0	10451.4	10945.9	11414.3
62.5°	8538.5	8801.8	9052.0	9320.0	9597.5	9956.9	10399.2	10973.2	11554.3	12172.1	12652.4
65°	9285.6	9655.6	9983.0	10330.4	10689.8	11170.0	11699.0	12385.6	13218.1	13851.4	14622.2
67.5°	9656.8	10144.2	10565.2	10951.8	11396.6	11881.6	12510.1	13322.5	14210.7	15128.6	15988.4
69°	9220.4	9723.2	10189.3	10622.2	11071.6	11542.4	12199.4	13033.1	13972.3	14964.9	15804.6
70°	8654.7	9157.6	9654.5	10147.8	10558.1	11017.1	11676.4	12536.2	13474.3	14506.0	15338.5
72.5°	6630.4	7235.2	7684.7	8147.2	8622.7	9011.7	9773.1	10497.6	11474.8	12522.0	13438.7
75°	4242.0	4798.2	5289.1	5682.9	6147.7	6613.8	7175.9	7981.1	8593.1	9452.9	10196.4
77.5°	2179.7	2344.5	2817.7	2958.8	3281.4	3535.2	3844.7	4046.3	4544.4	4649.9	5088.7
80°	1032.9	930.9	876.4	826.6	840.8	834.9	810.0	776.8	818.3	800.5	793.4
82.5°	900.1	802.9	640.4	544.3	470.8	399.7	343.9	315.5	319.0	328.5	332.1
85°	630.9	593.0	462.5	351.0	273.9	212.3	170.8	163.7	168.4	181.4	176.7
87.5°	182.6	190.9	168.4	117.4	81.8	59.3	46.3	52.2	49.8	48.6	51.0
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	3530.4	3529.3	3525.7	3522.1	3522.1	3519.8	3522.1	3523.3	3522.1	3522.1	3519.8
5°	3570.8	3571.9	3575.5	3568.4	3567.2	3568.4	3563.6	3562.5	3558.9	3562.5	3557.7
7.5°	3647.8	3651.4	3651.4	3646.7	3645.5	3649.0	3641.9	3639.5	3636.0	3634.8	3633.6
10°	3762.9	3766.4	3760.5	3756.9	3753.4	3758.1	3752.2	3752.2	3748.6	3745.1	3743.9
12.5°	3891.0	3888.6	3886.2	3888.6	3885.0	3885.0	3881.5	3879.1	3877.9	3876.7	3874.4
15°	3990.6	3998.9	3998.9	4001.2	3998.9	3998.9	3994.1	3995.3	3992.9	3991.8	3992.9
17.5°	4054.6	4057.0	4062.9	4066.5	4066.5	4067.7	4065.3	4067.7	4065.3	4065.3	4070.0
20°	4062.9	4065.3	4071.2	4077.1	4080.7	4083.1	4083.1	4086.6	4089.0	4091.4	4097.3
22.5°	4029.7	4033.3	4040.4	4051.1	4057.0	4059.4	4064.1	4070.0	4076.0	4080.7	4089.0
25°	3995.3	3996.5	4003.6	4014.3	4021.4	4027.3	4035.6	4042.8	4051.1	4060.5	4070.0
27.5°	3976.3	3975.2	3981.1	3991.8	3997.7	4006.0	4013.1	4023.8	4033.3	4045.1	4053.4
30°	3992.9	3983.5	3984.6	3989.4	3994.1	4000.1	4008.4	4017.8	4028.5	4039.2	4048.7
32.5°	4066.5	4045.1	4030.9	4027.3	4028.5	4029.7	4034.5	4040.4	4048.7	4057.0	4060.5
35°	4225.4	4188.6	4169.6	4154.2	4141.2	4130.5	4132.9	4131.7	4131.7	4138.8	4130.5
37.5°	4527.8	4481.5	4461.4	4434.1	4418.7	4379.6	4368.9	4366.5	4351.1	4351.1	4333.3
40°	5002.2	4974.9	4959.5	4934.6	4859.8	4869.3	4816.0	4817.1	4773.3	4778.0	4747.2
42.5°	5676.9	5680.5	5661.5	5644.9	5586.8	5560.7	5510.9	5439.8	5384.0	5382.8	5321.2
45°	6457.3	6500.0	6439.5	6460.8	6409.8	6339.9	6281.7	6190.4	6103.9	6076.6	6013.7
47.5°	7273.2	7343.1	7296.9	7305.2	7280.3	7180.7	7102.4	6989.7	6877.1	6801.2	6763.2
50°	8144.8	8191.1	8189.9	8167.3	8155.5	8058.2	7932.5	7847.1	7764.1	7662.1	7628.9
52.5°	8934.6	9042.5	9114.9	9098.3	9063.9	9005.8	8894.3	8820.8	8698.6	8684.4	8698.6
55°	9780.2	9920.1	9993.6	10082.6	10083.8	10073.1	10026.8	9999.6	9885.7	9898.8	9882.2
57.5°	10580.7	10785.8	10898.5	11088.2	11153.4	11240.0	11208.0	11243.6	11174.8	11219.9	11206.8
60°	11665.8	11950.4	12137.7	12397.5	12518.4	12735.4	12778.1	12804.2	12842.2	12934.7	12882.5
62.5°	13030.7	13448.2	13837.1	14190.5	14306.8	14632.9	14686.3	14890.2	14900.9	14963.8	14848.7
65°	15265.0	15773.7	16201.8	16625.2	16869.5	17251.4	17405.5	17801.6	17680.7	17731.7	17486.2
67.5°	16728.4	17320.2	17894.1	18295.0	18700.5	19090.7	19371.8	19627.9	19625.6	19575.7	19357.5
69°	16599.1	17258.5	17824.2	18361.4	18788.3	19189.1	19527.1	19693.2	19751.3	19678.9	19523.6
70°	16152.0	16829.2	17521.8	17964.1	18429.0	18868.9	19217.6	19399.0	19439.4	19388.4	19254.4
72.5°	14086.2	14736.1	15499.8	15901.8	16463.9	16781.8	17262.0	17496.9	17538.4	17473.1	17385.4
75°	10993.3	11110.8	11888.7	12144.9	12552.8	12919.3	13218.1	13142.2	13354.5	13313.0	13279.8
77.5°	5178.9	4865.8	5369.8	5604.6	5481.3	5152.8	5630.7	5285.6	5514.5	5812.1	5736.2
80°	853.9	851.5	874.0	923.8	864.5	917.9	916.7	890.6	893.0	957.0	923.8
82.5°	328.5	335.6	339.2	348.7	348.7	349.8	355.8	362.9	357.0	368.8	366.4
85°	177.9	189.7	179.1	170.8	176.7	180.3	185.0	190.9	185.0	202.8	193.3
87.5°	46.3	48.6	42.7	42.7	41.5	37.9	37.9	40.3	43.9	52.2	56.9
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-F07-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	3515.0	3516.2	3517.4	3513.8	3511.5	3511.5	3510.3	3507.9	3506.7	3506.7	3506.7
5°	3555.3	3557.7	3551.8	3550.6	3548.2	3545.9	3545.9	3543.5	3544.7	3544.7	3538.7
7.5°	3636.0	3632.4	3625.3	3620.6	3625.3	3617.0	3613.5	3615.8	3613.5	3614.6	3612.3
10°	3743.9	3743.9	3735.6	3740.3	3734.4	3724.9	3728.5	3724.9	3722.6	3714.3	3719.0
12.5°	3877.9	3874.4	3869.6	3858.9	3855.4	3854.2	3843.5	3844.7	3841.1	3838.8	3835.2
15°	3995.3	3994.1	3983.5	3977.5	3976.3	3971.6	3966.9	3964.5	3958.6	3957.4	3955.0
17.5°	4073.6	4070.0	4065.3	4059.4	4059.4	4052.2	4049.9	4043.9	4042.8	4039.2	4035.6
20°	4099.7	4100.9	4096.1	4091.4	4089.0	4084.3	4080.7	4076.0	4073.6	4068.8	4065.3
22.5°	4093.7	4093.7	4089.0	4087.8	4083.1	4076.0	4071.2	4065.3	4059.4	4053.4	4046.3
25°	4074.8	4073.6	4070.0	4064.1	4058.2	4047.5	4038.0	4028.5	4020.2	4013.1	4002.4
27.5°	4058.2	4055.8	4048.7	4040.4	4028.5	4016.7	3998.9	3985.8	3975.2	3965.7	3953.8
30°	4052.2	4043.9	4033.3	4020.2	4006.0	3988.2	3969.2	3952.6	3940.8	3931.3	3926.5
32.5°	4059.4	4048.7	4032.1	4015.5	3997.7	3976.3	3957.4	3943.1	3932.5	3930.1	3930.1
35°	4124.6	4106.8	4084.3	4060.5	4038.0	4020.2	4007.2	4006.0	3998.9	4007.2	4020.2
37.5°	4315.5	4300.1	4265.7	4234.9	4219.5	4211.2	4199.3	4201.7	4185.1	4211.2	4232.5
40°	4721.1	4702.1	4661.8	4636.9	4606.1	4576.4	4600.1	4593.0	4604.9	4600.1	4622.7
42.5°	5312.9	5293.9	5229.8	5220.4	5207.3	5195.5	5195.5	5186.0	5181.2	5197.8	5178.9
45°	6032.7	5994.8	5971.0	5999.5	5960.4	5972.2	6013.7	5958.0	5971.0	5894.0	5822.8
47.5°	6779.8	6776.3	6770.3	6804.7	6810.7	6828.4	6851.0	6794.1	6690.9	6632.8	6488.1
50°	7639.6	7676.4	7690.6	7723.8	7738.0	7751.1	7715.5	7631.3	7457.0	7302.8	7132.0
52.5°	8684.4	8620.3	8708.1	8740.1	8725.9	8673.7	8545.6	8442.5	8201.7	7980.0	7715.5
55°	9901.1	9916.5	9854.9	9830.0	9781.4	9636.7	9460.0	9227.5	8922.8	8633.4	8299.0
57.5°	11140.4	11134.5	11038.4	10903.2	10738.4	10564.0	10300.8	9967.5	9611.8	9222.8	8818.4
60°	12647.7	12641.8	12447.3	12216.0	11981.2	11700.1	11287.5	10886.6	10409.9	9898.8	9417.3
62.5°	14628.1	14373.2	14182.2	13837.1	13474.3	13106.6	12548.1	12015.6	11378.8	10733.6	10171.5
65°	17166.0	16746.2	16529.2	16028.7	15466.6	14892.6	14324.6	13624.9	12767.5	11987.1	11300.5
67.5°	19043.3	18659.0	18261.8	17762.5	17145.8	16505.4	15727.5	14846.4	13872.7	12997.5	12249.2
69°	19208.1	18848.8	18372.1	17871.6	17288.1	16592.0	15742.9	14756.2	13769.6	12883.7	12147.2
70°	18957.9	18576.0	18074.4	17553.8	16901.5	16244.5	15355.1	14326.9	13339.1	12450.8	11732.2
72.5°	17091.3	16718.9	16185.2	15562.6	14893.8	14331.7	13487.3	12415.2	11340.8	10520.2	9960.4
75°	12996.3	12914.5	12536.2	12173.3	11646.8	11019.4	10247.4	9526.4	8645.3	7777.2	7255.4
77.5°	5545.3	5733.9	5930.7	5959.2	5978.2	5784.8	5665.1	5483.6	4894.2	4626.2	4349.9
80°	1024.6	915.5	977.2	984.3	1024.6	1046.0	1124.2	1333.0	1356.7	1407.7	1470.5
82.5°	364.1	370.0	379.5	383.0	386.6	400.8	454.2	544.3	626.2	732.9	875.2
85°	206.3	209.9	218.2	225.3	230.1	244.3	273.9	327.3	408.0	530.1	718.7
87.5°	62.9	71.2	75.9	85.4	88.9	91.3	104.4	139.9	180.3	266.8	389.0
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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CATALOG NUMBER: VST-F07-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	3506.7	3505.5	3503.2	3500.8	3502.0	3499.6	3492.5	3490.1	3481.8	3475.9	3471.1
5°	3538.7	3537.6	3532.8	3534.0	3532.8	3521.0	3512.7	3498.4	3490.1	3477.1	3472.3
7.5°	3605.2	3604.0	3595.7	3599.2	3596.9	3579.1	3564.8	3542.3	3530.4	3513.8	3500.8
10°	3704.8	3704.8	3695.3	3696.5	3696.5	3672.8	3647.8	3609.9	3582.6	3556.5	3534.0
12.5°	3825.7	3821.0	3819.8	3813.9	3809.1	3783.0	3745.1	3694.1	3643.1	3600.4	3569.6
15°	3947.9	3940.8	3937.2	3930.1	3924.2	3900.4	3849.5	3786.6	3717.8	3649.0	3598.0
17.5°	4027.3	4022.6	4015.5	4013.1	4004.8	3981.1	3945.5	3882.7	3797.3	3701.2	3624.1
20°	4057.0	4048.7	4043.9	4039.2	4034.5	4017.8	4017.8	3977.5	3882.7	3747.5	3630.1
22.5°	4038.0	4033.3	4026.2	4022.6	4017.8	4020.2	4066.5	4060.5	3951.4	3758.1	3587.4
25°	3994.1	3988.2	3982.3	3982.3	3981.1	4006.0	4117.5	4132.9	3971.6	3706.0	3493.7
27.5°	3949.1	3940.8	3943.1	3944.3	3950.3	4003.6	4173.2	4151.9	3917.0	3580.2	3332.4
30°	3921.8	3921.8	3927.7	3937.2	3949.1	4042.8	4217.1	4109.2	3775.9	3390.5	3118.9
32.5°	3933.6	3945.5	3958.6	3982.3	4000.1	4129.3	4232.5	3998.9	3570.8	3155.7	2896.0
35°	4039.2	4053.4	4078.3	4115.1	4136.4	4253.8	4232.5	3837.6	3332.4	2954.1	2665.9
37.5°	4269.3	4283.5	4313.1	4341.6	4362.9	4410.4	4214.7	3632.4	3133.2	2745.4	2459.6
40°	4639.3	4659.4	4680.8	4676.0	4661.8	4615.5	4179.1	3441.5	2949.3	2562.7	2256.8
42.5°	5159.9	5140.9	5138.5	5092.3	5044.8	4846.8	4153.0	3317.0	2791.6	2370.6	2055.2
45°	5761.1	5684.0	5604.6	5542.9	5470.6	5100.6	4145.9	3216.2	2617.3	2157.2	1835.8
47.5°	6365.9	6242.6	6088.4	5992.4	5875.0	5371.0	4167.3	3081.0	2393.2	1924.7	1630.6
50°	6958.9	6757.3	6566.4	6451.3	6318.5	5681.7	4201.7	2853.3	2125.1	1713.6	1443.2
52.5°	7508.0	7248.3	7052.6	6917.4	6754.9	6043.4	4170.8	2554.4	1892.7	1510.8	1265.4
55°	8029.8	7742.8	7540.0	7397.7	7206.7	6406.3	3947.9	2282.9	1670.9	1312.8	1064.9
57.5°	8486.3	8211.2	8000.1	7806.8	7645.5	6721.7	3507.9	2058.7	1457.5	1086.3	847.9
60°	9020.0	8710.5	8460.3	8253.9	8064.2	6884.2	3014.6	1859.5	1229.8	840.8	613.1
62.5°	9739.8	9384.1	9094.7	8858.7	8610.9	6919.8	2677.8	1660.3	976.0	608.4	445.9
65°	10807.2	10368.4	10006.7	9681.7	9346.1	6772.7	2511.7	1443.2	725.8	451.8	373.6
67.5°	11655.1	11199.7	10781.1	10363.6	9934.3	6500.0	2475.0	1242.8	557.4	384.2	335.6
69°	11551.9	11117.9	10733.6	10281.8	9806.3	6157.2	2438.2	1165.7	508.8	357.0	317.8
70°	11154.6	10743.1	10353.0	9985.3	9403.0	5775.4	2341.0	1123.1	489.8	343.9	304.8
72.5°	9425.6	8948.8	8570.5	8112.8	7499.7	4291.8	1775.3	908.4	449.5	314.3	275.1
75°	6874.7	6479.8	6102.7	5596.3	4999.8	2483.3	1105.3	519.4	329.7	284.6	249.0
77.5°	4014.3	3925.3	3561.3	3228.0	2637.5	1264.2	634.5	310.7	256.2	258.5	219.4
80°	1510.8	1609.3	1646.0	1531.0	1414.8	872.8	461.3	252.6	223.0	255.0	186.2
82.5°	1101.7	1278.4	1299.8	1245.2	1158.6	813.5	368.8	202.8	181.4	273.9	160.1
85°	919.1	1017.5	1032.9	976.0	947.5	689.0	257.3	142.3	132.8	196.9	119.8
87.5°	464.9	489.8	502.8	455.4	457.8	321.4	103.2	60.5	72.3	84.2	66.4
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: P158036

CATALOG NUMBER: VST-F07-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3509.1	3509.1
2.5°	3460.5	3467.6
5°	3465.2	3465.2
7.5°	3492.5	3492.5
10°	3522.1	3523.3
12.5°	3549.4	3548.2
15°	3570.8	3567.2
17.5°	3583.8	3580.2
20°	3570.8	3564.8
22.5°	3504.4	3487.7
25°	3383.4	3362.0
27.5°	3223.3	3209.1
30°	3014.6	2993.2
32.5°	2770.3	2759.6
35°	2536.7	2523.6
37.5°	2323.2	2319.6
40°	2142.9	2124.0
42.5°	1931.8	1923.5
45°	1717.2	1712.4
47.5°	1515.6	1510.8
50°	1329.4	1319.9
52.5°	1146.8	1131.4
55°	944.0	933.3
57.5°	724.6	715.1
60°	509.9	499.3
62.5°	362.9	351.0
65°	302.4	292.9
67.5°	273.9	263.3
69°	260.9	251.4
70°	252.6	245.5
72.5°	234.8	230.1
75°	214.6	211.1
77.5°	188.6	182.6
80°	157.7	151.8
82.5°	132.8	126.9
85°	88.9	80.6
87.5°	40.3	35.6
90°	0.0	0.0

(END OF REPORT)