

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: P158707

Luminaire Tested: **VST-F08-LED-E-U-SL4-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158707
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
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-SL4-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (56) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19658.5 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - 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



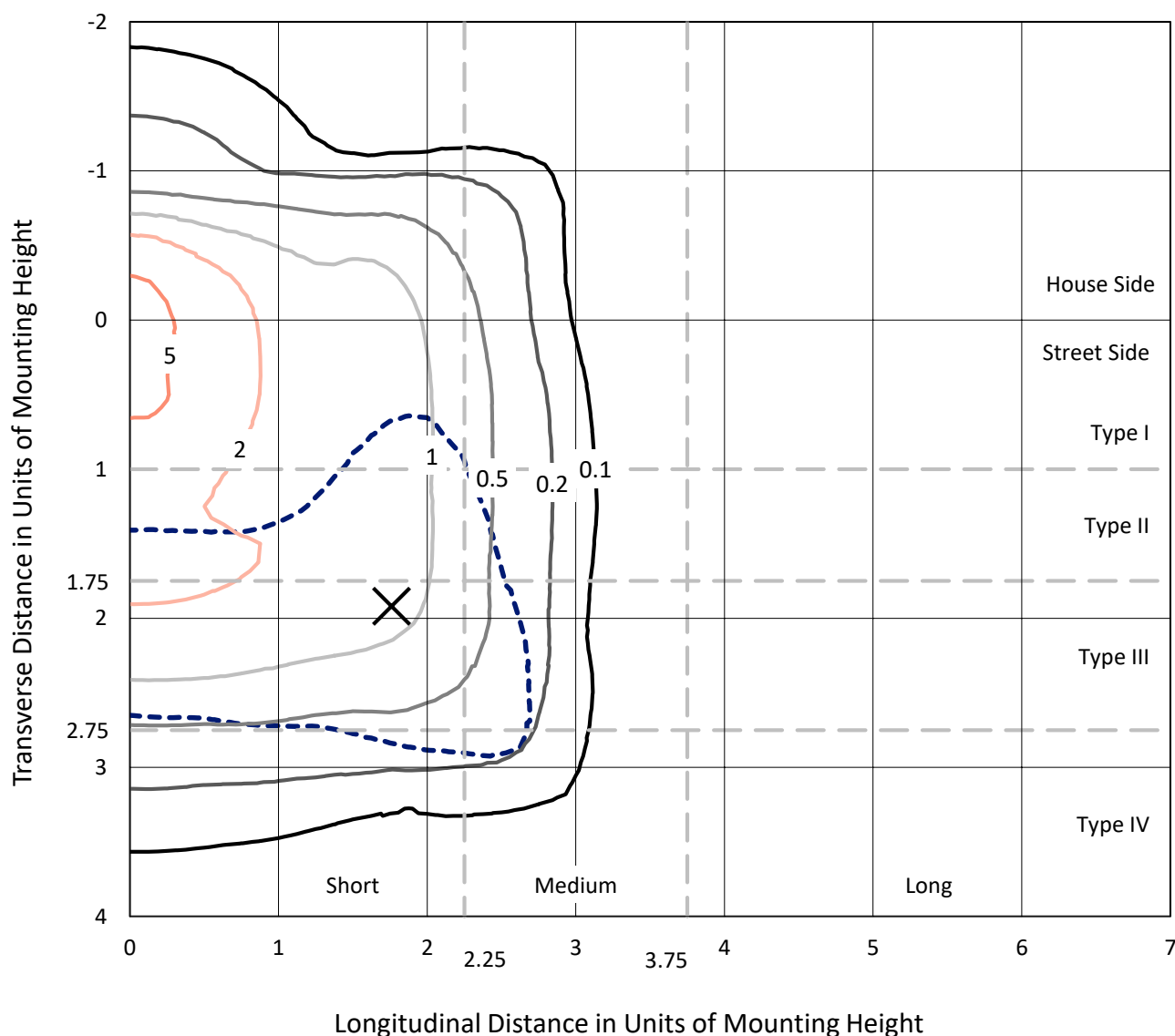
REPORT NUMBER: P158707

CATALOG NUMBER: VST-F08-LED-E-U-SL4-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

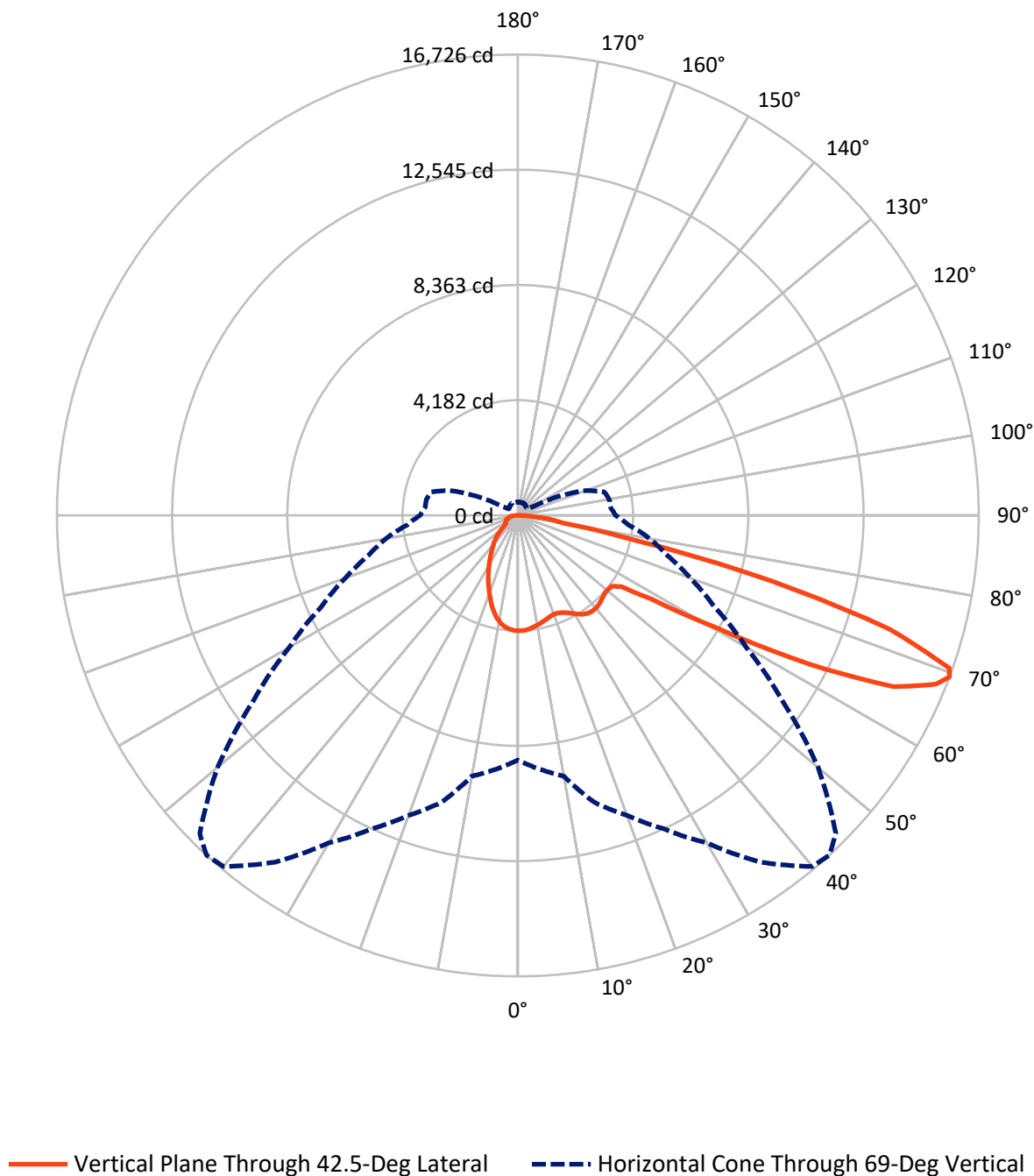


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P158707

CATALOG NUMBER: VST-F08-LED-E-U-SL4-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P158707

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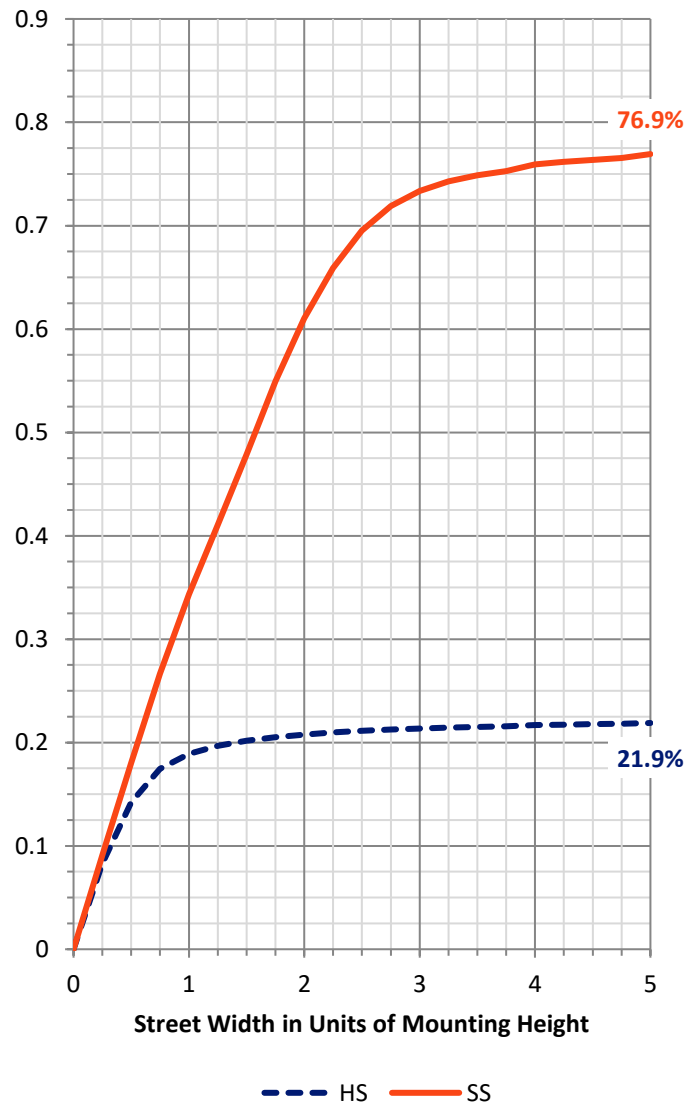
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4370.4	0.0	4370.4
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	15288.1	0.0	15288.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	19658.5	0.0	19658.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.7	2.0
10°-20°	1050.4	5.3
20°-30°	1531.6	7.8
30°-40°	1952.5	9.9
40°-50°	2271.8	11.6
50°-60°	3456.5	17.6
60°-70°	6105.8	31.1
70°-80°	2519.6	12.8
80°-90°	380.4	1.9
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°	19658.5	100.0
0°-180°	19658.5	100.0

Coefficient of Utilization



REPORT NUMBER: P158707

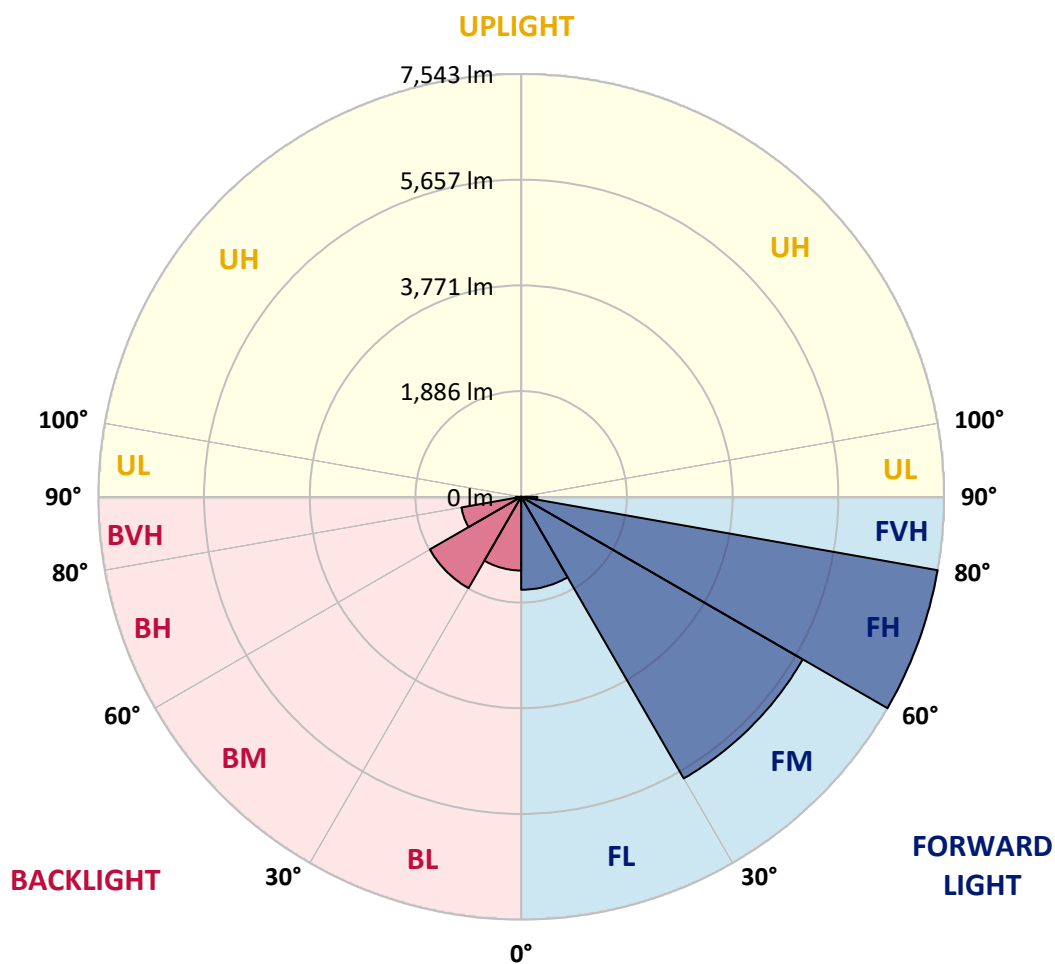
CATALOG NUMBER: VST-F08-LED-E-U-SL4-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1657.7	8.4			
FM	(30°-60°)	5799.8	29.5			
FH	(60°-80°)	7542.9	38.4			G4/12000
FVH	(80°-90°)	287.7	1.5			G3/500
BL	(0°-30°)	1314.0	6.7	B3/2500		
BM	(30°-60°)	1881.1	9.6	B2/2500		
BH	(60°-80°)	1082.5	5.5	B3/2500		G3/2500
BVH	(80°-90°)	92.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P158707

CATALOG NUMBER: VST-F08-LED-E-U-SL4-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6
2.5°	4173.0	4187.9	4182.5	4182.5	4186.6	4179.8	4179.8	4182.5	4175.7	4179.8	4178.5
5°	4158.1	4166.3	4163.5	4163.5	4163.5	4158.1	4155.4	4154.1	4144.6	4144.6	4140.5
7.5°	4125.6	4128.3	4132.4	4127.0	4125.6	4124.2	4114.8	4109.3	4098.5	4089.0	4091.7
10°	4082.2	4080.9	4087.6	4083.6	4078.2	4074.1	4066.0	4056.5	4044.3	4032.1	4030.7
12.5°	4033.4	4032.1	4037.5	4034.8	4030.7	4022.6	4015.8	3999.6	3980.6	3965.7	3964.3
15°	4002.3	3998.2	4003.6	3998.2	3991.4	3983.3	3971.1	3950.8	3916.9	3902.0	3889.8
17.5°	4032.1	4025.3	4028.0	4021.2	4011.8	3990.1	3961.6	3918.2	3869.4	3843.7	3824.7
20°	4136.4	4124.2	4127.0	4120.2	4098.5	4070.0	4015.8	3939.9	3857.2	3815.2	3785.4
22.5°	4285.5	4276.0	4280.1	4273.3	4251.6	4208.3	4127.0	4018.5	3900.6	3839.6	3792.2
25°	4511.9	4520.0	4522.7	4491.5	4479.3	4399.4	4286.9	4136.4	3979.2	3907.4	3842.3
27.5°	4766.7	4766.7	4778.9	4766.7	4742.3	4648.8	4490.2	4308.6	4106.6	4009.0	3930.4
30°	5014.7	5012.0	5035.0	5032.3	4993.0	4887.3	4707.0	4486.1	4255.7	4145.9	4045.6
32.5°	5277.6	5285.8	5300.7	5295.2	5243.7	5097.4	4880.5	4640.6	4398.0	4277.4	4164.9
35°	5562.2	5566.3	5571.7	5569.0	5464.7	5280.3	5007.9	4739.6	4487.5	4368.2	4251.6
37.5°	5846.9	5842.8	5836.0	5777.7	5658.5	5402.3	5085.2	4796.5	4532.2	4403.4	4282.8
40°	6101.7	6078.6	6056.9	5966.1	5783.2	5471.4	5115.0	4810.0	4528.1	4395.3	4277.4
42.5°	6241.3	6215.5	6170.8	6056.9	5834.7	5478.2	5094.7	4769.4	4486.1	4354.6	4238.1
45°	6267.0	6248.0	6204.7	6077.3	5822.5	5434.8	5032.3	4703.0	4423.8	4292.3	4182.5
47.5°	6206.0	6191.1	6149.1	6023.0	5769.6	5369.8	4960.5	4632.5	4362.8	4239.4	4133.7
50°	6112.5	6098.9	6066.4	5951.2	5710.0	5325.1	4923.9	4595.9	4342.4	4230.0	4132.4
52.5°	6264.3	6275.1	6180.3	6054.2	5773.7	5364.4	4964.5	4633.8	4379.0	4267.9	4166.3
55°	8623.9	8609.0	8038.4	7560.0	6704.8	5929.5	5350.8	4934.7	4662.3	4551.2	4456.3
57.5°	11205.8	11154.3	10919.8	10472.6	9553.7	8327.1	7211.7	6262.9	5888.9	5728.9	5739.8
60°	12048.8	12067.8	12017.6	11859.1	11529.7	10891.4	10042.9	9330.0	8628.0	8285.1	8324.4
62.5°	12516.4	12550.3	12593.6	12558.4	12451.3	12303.6	12196.5	12261.6	12164.0	11917.3	11720.8
65°	12581.4	12650.6	12794.2	12908.1	12963.6	13103.2	13431.2	14217.3	14935.6	14983.1	14637.5
67.5°	11293.9	11485.0	11796.7	12323.9	12775.3	13271.3	14062.8	15258.2	16318.1	16353.3	16030.7
69°	8880.1	9247.4	9611.9	10789.7	11582.6	12554.3	13725.3	15358.5	16628.4	16726.0	16319.4
70°	7115.4	7333.6	7648.1	8831.3	10015.8	11254.6	12951.4	15027.8	16415.6	16612.2	16163.6
72.5°	4272.0	4356.0	4464.4	4888.6	5498.5	6601.8	8851.6	12252.1	13847.3	14110.2	13539.7
75°	2762.1	2756.7	2766.2	2884.1	2919.4	3130.8	3839.6	6303.6	9033.2	9510.3	8827.2
77.5°	2080.4	2099.4	2069.6	2080.4	2070.9	2127.9	2149.5	2256.6	3565.8	4392.6	3927.7
80°	1836.5	1845.9	1847.3	1841.9	1775.5	1770.0	1805.3	1744.3	1621.0	1645.4	1576.2
82.5°	1047.7	1046.3	1058.5	1150.7	1188.6	1313.3	1364.8	1393.3	1286.2	1206.2	1091.0
85°	679.0	684.4	698.0	726.5	698.0	708.8	696.6	721.0	661.4	614.0	548.9
87.5°	277.8	277.8	295.5	321.2	299.5	294.1	252.1	249.4	211.4	191.1	149.1
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: P158707

CATALOG NUMBER: VST-F08-LED-E-U-SL4-7060

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6
2.5°	4170.3	4178.5	4174.4	4179.8	4175.7	4175.7	4170.3	4169.0	4173.0	4167.6	4169.0
5°	4133.7	4135.1	4128.3	4131.0	4122.9	4120.2	4116.1	4105.3	4112.0	4105.3	4108.0
7.5°	4080.9	4076.8	4067.3	4053.8	4044.3	4040.2	4032.1	4017.2	4019.9	4007.7	4014.5
10°	4013.1	3999.6	3983.3	3963.0	3949.4	3937.2	3919.6	3902.0	3892.5	3881.6	3880.3
12.5°	3937.2	3920.9	3899.3	3868.1	3838.3	3817.9	3790.8	3759.7	3750.2	3732.6	3723.1
15°	3854.5	3828.8	3803.0	3767.8	3735.3	3704.1	3667.5	3628.2	3602.4	3575.3	3555.0
17.5°	3780.0	3750.2	3716.3	3682.4	3647.2	3609.2	3563.1	3514.3	3476.4	3426.3	3385.6
20°	3721.7	3683.8	3649.9	3614.6	3575.3	3529.3	3473.7	3411.3	3347.6	3292.1	3244.6
22.5°	3698.7	3639.0	3598.4	3563.1	3523.8	3469.6	3401.9	3328.7	3251.4	3174.2	3111.8
25°	3717.6	3629.5	3565.8	3523.8	3490.0	3434.4	3358.5	3269.0	3179.6	3087.4	3003.4
27.5°	3773.2	3660.7	3568.6	3502.1	3462.8	3407.3	3327.3	3232.4	3126.7	3023.7	2920.7
30°	3860.0	3713.6	3597.0	3503.5	3442.5	3378.8	3294.8	3185.0	3077.9	2960.0	2847.5
32.5°	3944.0	3769.1	3629.5	3508.9	3415.4	3332.7	3239.2	3130.8	3015.6	2892.3	2775.7
35°	4003.6	3805.7	3641.7	3496.7	3373.4	3270.4	3170.1	3061.7	2949.2	2823.1	2703.9
37.5°	4032.1	3826.1	3643.1	3464.2	3317.8	3204.0	3096.9	2989.8	2884.1	2764.9	2652.4
40°	4030.7	3824.7	3624.1	3422.2	3251.4	3130.8	3025.1	2920.7	2821.8	2717.4	2615.8
42.5°	4000.9	3803.0	3597.0	3381.5	3204.0	3069.8	2960.0	2859.7	2775.7	2683.5	2598.2
45°	3954.8	3766.4	3568.6	3362.6	3190.4	3056.2	2939.7	2842.1	2767.6	2683.5	2610.3
47.5°	3919.6	3746.1	3572.6	3396.4	3232.4	3092.8	2969.5	2862.4	2798.7	2731.0	2679.5
50°	3925.0	3755.6	3586.2	3416.8	3262.3	3121.3	3002.0	2904.5	2858.4	2840.8	2828.6
52.5°	3953.5	3770.5	3626.8	3525.2	3472.3	3366.6	3296.1	3235.2	3269.0	3202.6	3124.0
55°	4316.7	4257.1	4396.7	4528.1	4694.8	4757.2	4697.5	4686.7	4740.9	4515.9	3999.6
57.5°	5817.0	5971.5	6187.0	6300.9	6439.1	6402.5	6264.3	6149.1	6013.6	5750.6	5106.8
60°	8369.1	8252.5	8155.0	7879.8	7654.9	7391.9	7099.2	6848.4	6608.5	6230.4	5533.8
62.5°	10998.4	10189.3	9513.0	8859.7	8333.9	7897.5	7473.2	7096.5	6733.2	6206.0	5456.5
65°	13272.7	11569.0	10299.1	9340.9	8572.4	7909.7	7364.8	6844.4	6382.2	5764.2	5022.8
67.5°	14294.6	12159.9	10312.6	8939.7	7875.8	6975.8	6271.1	5485.0	4967.3	4571.5	4154.1
69°	14218.7	11708.6	9576.7	7886.6	6664.1	5615.1	4858.8	4038.9	3542.8	3374.7	3365.3
70°	13858.2	10944.2	8717.4	7031.4	5632.7	4590.5	3865.4	3129.4	2667.3	2552.1	2756.7
72.5°	11314.2	7733.5	5463.3	4171.7	3208.0	2535.8	2068.2	1641.3	1310.6	1135.8	1173.7
75°	6390.3	3580.8	2314.9	1749.7	1478.7	1222.5	1049.0	894.5	809.1	657.3	520.4
77.5°	2323.0	1536.9	1222.5	1057.2	749.5	516.4	432.3	378.1	342.9	342.9	326.6
80°	1469.2	1157.4	807.8	553.0	409.3	356.4	311.7	273.8	252.1	246.7	252.1
82.5°	917.6	708.8	452.7	347.0	291.4	261.6	227.7	199.2	181.6	177.5	185.7
85°	452.7	351.0	275.1	245.3	230.4	214.1	188.4	161.3	155.9	166.7	195.2
87.5°	135.5	120.6	98.9	103.0	108.4	105.7	84.0	73.2	69.1	90.8	142.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6	4186.6
2.5°	4171.7	4170.3	4173.0	4169.0	4171.7	4173.0	4170.3	4182.5	4174.4	4175.7	4181.2
5°	4110.7	4108.0	4118.8	4116.1	4121.5	4127.0	4124.2	4141.9	4135.1	4140.5	4151.3
7.5°	4009.0	4014.5	4015.8	4015.8	4026.7	4044.3	4048.3	4059.2	4059.2	4074.1	4084.9
10°	3873.5	3874.9	3883.0	3881.6	3895.2	3914.2	3916.9	3935.9	3942.6	3967.0	3981.9
12.5°	3716.3	3709.5	3708.2	3706.8	3724.4	3744.8	3747.5	3780.0	3793.5	3815.2	3839.6
15°	3540.1	3522.5	3517.1	3527.9	3523.8	3536.0	3548.2	3565.8	3584.8	3628.2	3649.9
17.5°	3368.0	3332.7	3323.2	3311.0	3298.9	3298.9	3304.3	3326.0	3365.3	3388.3	3437.1
20°	3191.8	3149.8	3115.9	3083.4	3054.9	3044.1	3045.4	3072.5	3101.0	3138.9	3185.0
22.5°	3044.1	2980.4	2922.1	2878.7	2820.4	2819.1	2810.9	2819.1	2850.2	2859.7	2885.5
25°	2916.7	2831.3	2752.7	2682.2	2625.3	2595.4	2587.3	2584.6	2569.7	2565.6	2546.6
27.5°	2817.7	2714.7	2613.1	2527.7	2457.2	2416.5	2365.0	2328.4	2275.6	2262.0	2228.1
30°	2736.4	2625.3	2514.1	2403.0	2323.0	2249.8	2163.1	2099.4	2018.1	1965.2	1919.1
32.5°	2657.8	2545.3	2432.8	2323.0	2199.7	2085.8	1972.0	1873.1	1782.2	1700.9	1633.2
35°	2592.7	2485.7	2371.8	2239.0	2081.8	1917.8	1780.9	1668.4	1543.7	1458.3	1372.9
37.5°	2550.7	2453.1	2339.3	2156.3	1954.4	1778.2	1622.3	1485.4	1358.0	1229.3	1133.0
40°	2531.7	2446.4	2304.0	2080.4	1843.2	1648.1	1475.9	1324.1	1161.5	1016.5	913.5
42.5°	2530.4	2443.6	2255.3	1996.4	1751.1	1538.3	1347.2	1165.6	985.3	836.2	734.6
45°	2554.8	2439.6	2203.8	1925.9	1669.8	1447.5	1219.8	998.9	796.9	685.8	631.6
47.5°	2619.8	2446.4	2161.7	1860.9	1592.5	1337.7	1073.4	815.9	649.2	597.7	597.7
50°	2736.4	2485.7	2150.9	1814.8	1515.2	1210.3	894.5	658.7	574.7	574.7	590.9
52.5°	2915.3	2568.3	2169.9	1782.2	1419.0	1042.2	704.8	567.9	551.6	566.5	588.2
55°	3327.3	2714.7	2195.6	1726.7	1272.6	826.7	581.4	536.7	543.5	561.1	581.4
57.5°	4083.6	3027.8	2222.7	1604.7	1036.8	637.0	527.2	524.5	536.7	553.0	570.6
60°	4581.0	3426.3	2291.8	1420.4	784.7	525.9	500.1	516.4	531.3	544.8	558.4
62.5°	4581.0	3538.7	2343.3	1214.4	589.6	478.4	482.5	508.2	525.9	532.6	540.8
65°	4288.2	3332.7	2168.5	989.4	479.8	451.3	466.2	492.0	508.2	513.7	520.4
67.5°	3747.5	2943.8	1827.0	745.4	428.3	428.3	447.3	466.2	479.8	490.6	501.5
69°	3258.2	2641.5	1608.8	631.6	408.0	410.7	429.6	445.9	462.2	475.7	489.3
70°	2905.8	2415.2	1457.0	573.3	395.8	397.1	416.1	433.7	448.6	463.5	479.8
72.5°	1555.9	1668.4	1107.3	470.3	364.6	368.6	386.3	402.5	416.1	431.0	445.9
75°	529.9	717.0	704.8	384.9	329.3	340.2	351.0	365.9	383.6	393.0	401.2
77.5°	310.4	321.2	375.4	313.1	296.8	302.2	314.4	326.6	341.5	351.0	357.8
80°	260.2	258.9	260.2	254.8	258.9	271.1	279.2	295.5	309.0	311.7	310.4
82.5°	211.4	222.3	223.6	220.9	233.1	242.6	249.4	258.9	257.5	260.2	265.6
85°	188.4	187.0	196.5	197.9	197.9	191.1	192.5	192.5	192.5	196.5	197.9
87.5°	188.4	157.2	122.0	109.8	115.2	108.4	103.0	101.6	112.5	123.3	120.6
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: P158707

CATALOG NUMBER: VST-F08-LED-E-U-SL4-7060

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	4186.6	4186.6	4186.6	4186.6	4186.6
2.5°	4183.9	4187.9	4185.2	4185.2	4187.9
5°	4155.4	4162.2	4159.5	4162.2	4162.2
7.5°	4090.4	4099.8	4106.6	4113.4	4109.3
10°	3996.8	4013.1	4023.9	4032.1	4028.0
12.5°	3857.2	3872.2	3895.2	3908.7	3897.9
15°	3666.1	3708.2	3721.7	3740.7	3729.8
17.5°	3466.9	3492.7	3508.9	3526.5	3537.4
20°	3201.3	3221.6	3243.3	3251.4	3239.2
22.5°	2881.4	2892.3	2888.2	2900.4	2876.0
25°	2530.4	2537.2	2533.1	2543.9	2523.6
27.5°	2198.3	2197.0	2198.3	2184.8	2171.2
30°	1878.5	1866.3	1860.9	1840.5	1836.5
32.5°	1592.5	1550.5	1528.8	1499.0	1492.2
35°	1306.5	1246.9	1207.6	1173.7	1158.8
37.5°	1050.4	978.5	932.5	902.6	898.6
40°	830.8	764.4	731.9	715.6	712.9
42.5°	677.7	649.2	641.1	641.1	641.1
45°	618.0	616.7	623.4	628.9	630.2
47.5°	605.8	614.0	623.4	631.6	634.3
50°	605.8	614.0	620.7	628.9	631.6
52.5°	603.1	609.9	612.6	618.0	620.7
55°	595.0	599.1	599.1	601.8	604.5
57.5°	581.4	584.1	580.1	582.8	589.6
60°	567.9	570.6	563.8	570.6	574.7
62.5°	553.0	554.3	551.6	557.0	557.0
65°	528.6	525.9	529.9	534.0	535.4
67.5°	504.2	497.4	501.5	502.8	505.5
69°	485.2	481.1	482.5	485.2	487.9
70°	471.7	468.9	471.7	475.7	479.8
72.5°	437.8	439.1	448.6	456.7	464.9
75°	406.6	416.1	428.3	445.9	455.4
77.5°	368.6	375.4	384.9	403.9	421.5
80°	318.5	322.6	323.9	330.7	329.3
82.5°	258.9	254.8	252.1	249.4	248.0
85°	185.7	184.3	173.5	165.3	165.3
87.5°	111.1	105.7	100.3	93.5	89.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)