

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: McGRAW-EDISON

Report Number: P158197

Luminaire Tested: **VTS-F12-LED-E1-SL2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158197
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F12-LED-E1-SL2-7060
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (84) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

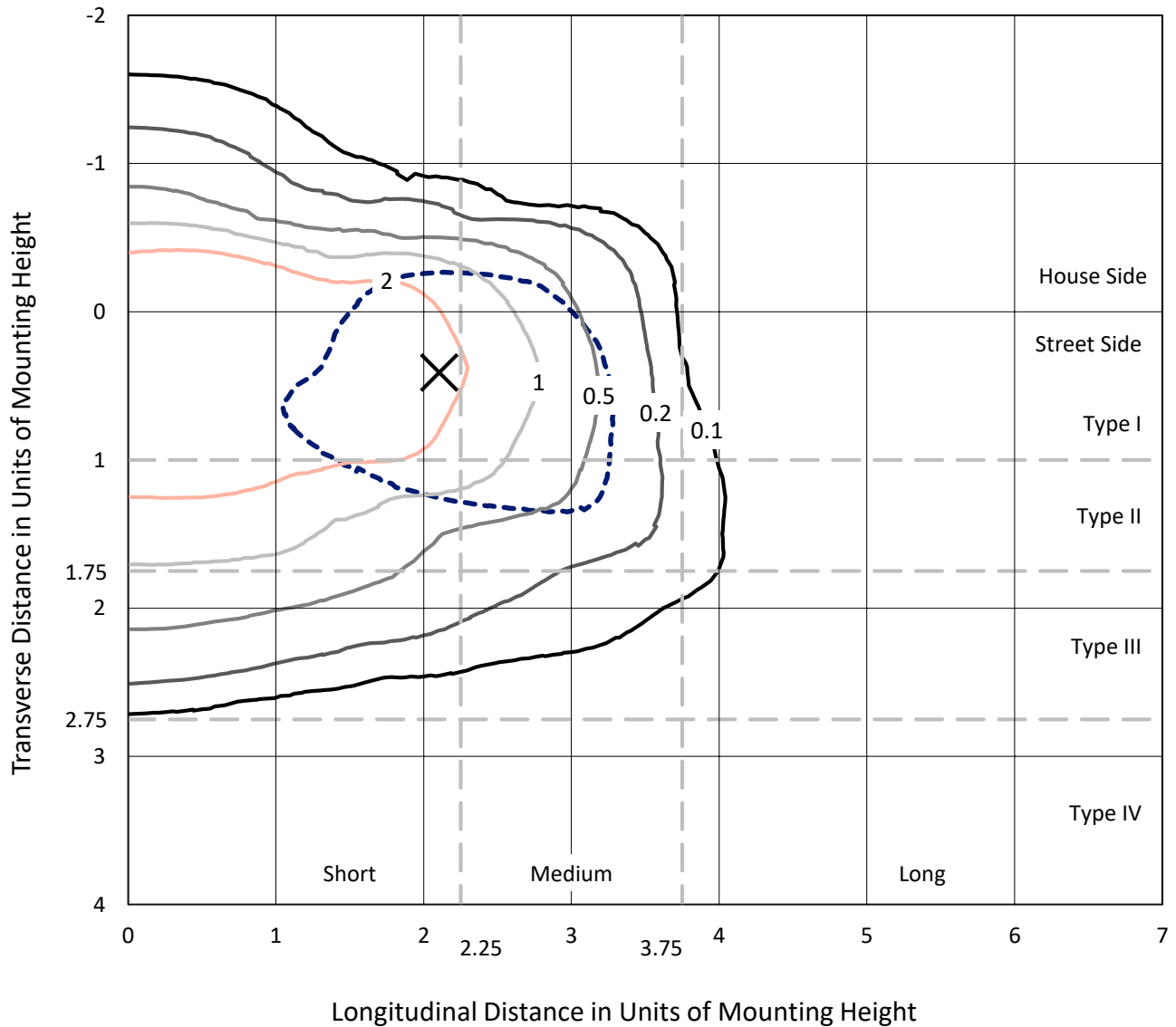
Lumens per Lamp: N/A
Luminaire Lumens: 30583.8 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 306.6
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: 25 FT

REPORT NUMBER: P158197
 CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

Iso-Footcandle Lines of Horizontal Illumination

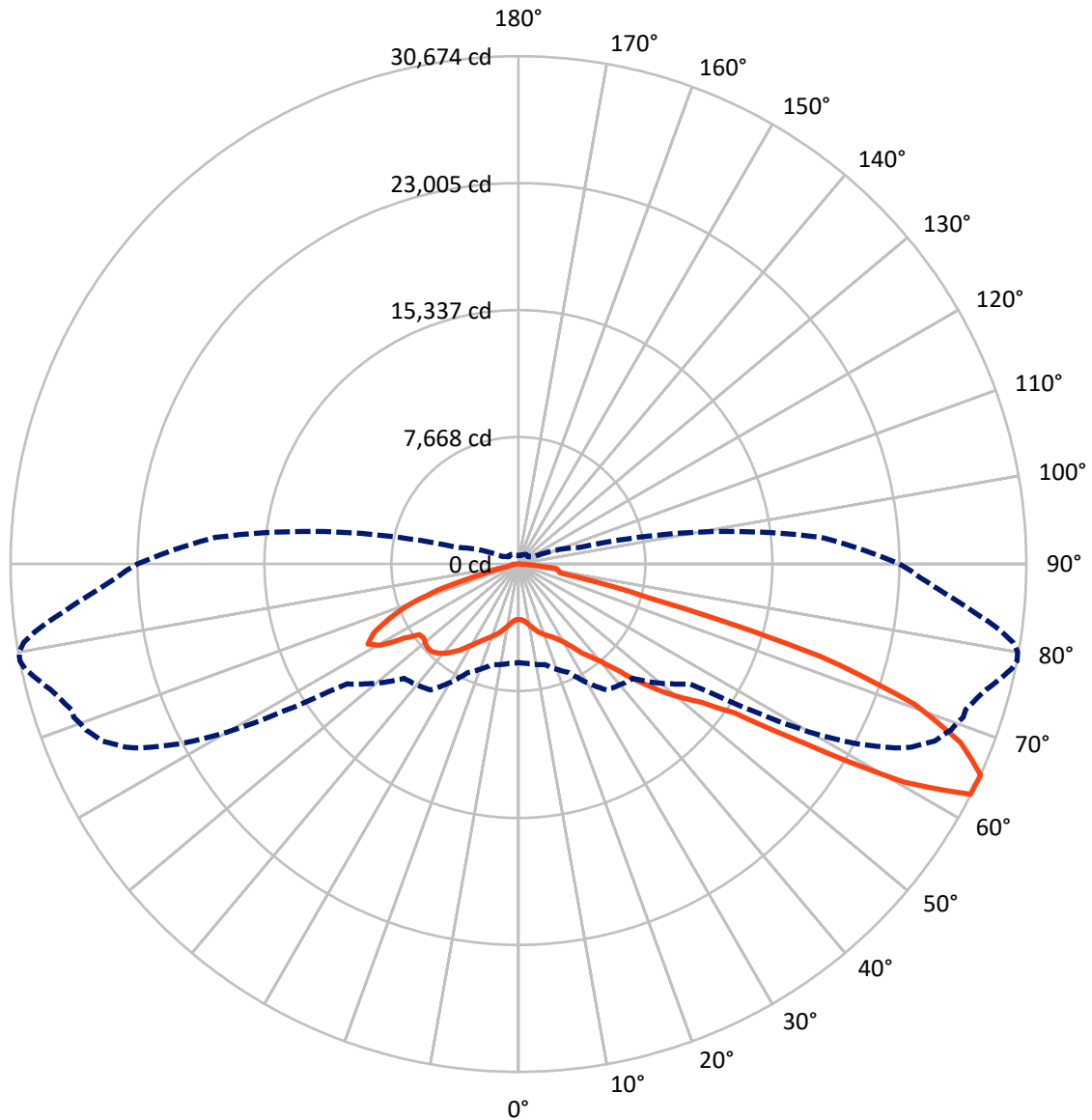
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P158197
CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P158197

CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7027.6	0.0	7027.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	23556.2	0.0	23556.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	30583.8	0.0	30583.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	1.1
10°-20°	1075.2	3.5
20°-30°	1853.6	6.1
30°-40°	3036.3	9.9
40°-50°	5084.7	16.6
50°-60°	6877.8	22.5
60°-70°	8469.9	27.7
70°-80°	3278.6	10.7
80°-90°	576.6	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°	30583.8	100.0
0°-180°	30583.8	100.0



REPORT NUMBER: P158197

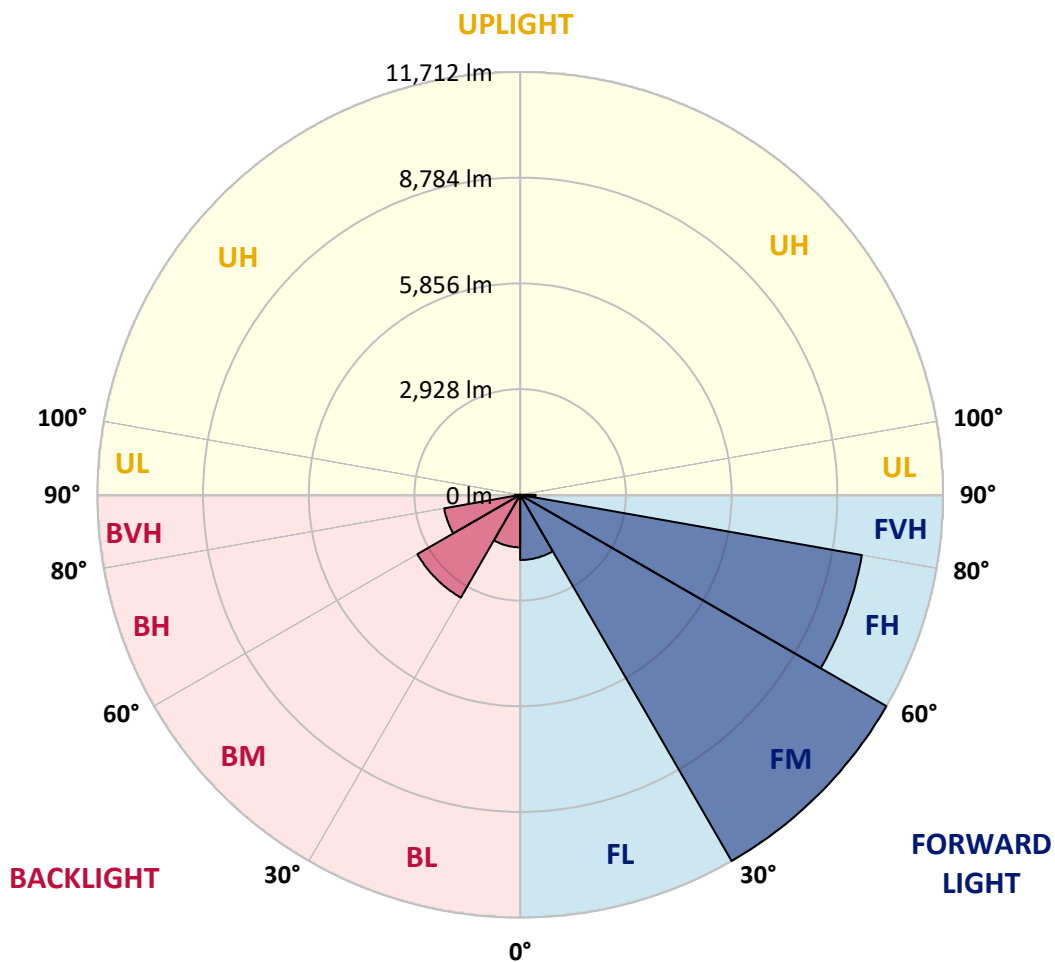
CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1805.6	5.9			
FM	(30°-60°)	11712.3	38.3			
FH	(60°-80°)	9610.5	31.4			G4/12000
FVH	(80°-90°)	427.8	1.4			G3/500
BL	(0°-30°)	1454.4	4.8	B3/2500		
BM	(30°-60°)	3286.4	10.7	B3/5000		
BH	(60°-80°)	2138.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	148.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P158197

CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3
2.5°	3352.4	3342.2	3352.4	3360.5	3366.6	3374.7	3372.7	3370.7	3368.7	3370.7	3370.7
5°	3380.8	3378.8	3389.0	3397.1	3411.3	3421.5	3433.7	3433.7	3433.7	3431.7	3435.7
7.5°	3472.3	3470.3	3480.5	3488.6	3500.8	3521.1	3537.4	3545.5	3543.5	3543.5	3543.5
10°	3622.8	3614.6	3614.6	3614.6	3630.9	3645.1	3681.7	3685.8	3693.9	3689.9	3691.9
12.5°	3769.1	3771.2	3765.1	3759.0	3761.0	3789.5	3842.3	3852.5	3854.5	3860.6	3864.7
15°	3901.3	3899.3	3885.0	3870.8	3889.1	3937.9	4007.0	4025.3	4025.3	4037.5	4045.6
17.5°	4023.3	4019.2	3992.8	3968.4	3986.7	4070.0	4177.8	4190.0	4208.3	4214.4	4222.5
20°	4167.6	4159.5	4129.0	4063.9	4063.9	4177.8	4320.1	4332.3	4348.5	4352.6	4366.8
22.5°	4368.9	4348.5	4283.5	4165.6	4133.1	4265.2	4440.0	4446.1	4458.3	4474.6	4486.8
25°	4596.6	4600.6	4494.9	4289.6	4218.4	4356.7	4555.9	4566.1	4588.4	4600.6	4614.9
27.5°	4832.4	4838.5	4720.6	4464.4	4344.5	4482.7	4712.5	4724.6	4751.1	4765.3	4787.7
30°	5100.8	5108.9	4995.0	4736.8	4553.9	4667.7	4944.2	4976.7	4999.1	5017.4	5054.0
32.5°	5745.2	5696.4	5617.1	5342.7	5054.0	5045.9	5318.3	5354.9	5385.4	5424.0	5458.6
35°	6556.4	6586.9	6627.5	6442.5	6188.4	6003.4	6025.8	6005.4	6033.9	6090.8	6125.4
37.5°	7198.8	7265.9	7442.7	7562.7	7552.5	7515.9	7174.4	7174.4	7192.7	7162.2	7158.1
40°	7703.0	7745.7	8107.5	8573.1	8965.4	9158.6	8888.2	8849.6	8869.9	8713.4	8719.5
42.5°	7963.2	8026.2	8546.7	9363.9	10142.5	10762.6	10679.3	10652.8	10591.8	10553.2	10528.8
45°	8095.3	8170.6	8790.6	9912.8	11047.2	12004.8	12435.7	12431.7	12376.8	12332.1	12311.7
47.5°	8028.2	8093.3	8754.0	10079.5	11522.9	12805.8	13759.2	13818.2	13801.9	13867.0	13893.4
50°	7589.1	7672.5	8335.2	9719.7	11323.7	13120.9	14676.1	14785.9	14934.3	15027.8	15151.8
52.5°	7192.7	7261.8	7859.5	9136.2	10669.1	12864.7	15229.1	15454.7	15658.0	15849.1	15997.5
55°	6778.0	6847.1	7371.6	8530.4	10008.4	12108.4	15481.2	15810.5	16127.6	16450.9	16747.7
57.5°	6621.4	6694.6	7084.9	8060.8	9467.6	11358.3	15605.2	16145.9	16662.3	17211.2	17780.5
60°	7028.0	7093.1	7389.9	8073.0	9054.9	10608.1	15355.1	16204.9	17093.3	17998.0	18872.2
62.5°	6904.0	6938.6	7308.6	8367.8	9581.4	9868.1	14271.5	15393.7	16684.7	18010.2	19349.9
65°	5956.6	6023.7	6302.2	7233.3	9286.7	9768.5	12620.7	13749.1	15271.8	16839.2	18634.3
67.5°	4273.3	4179.8	4395.3	5210.5	7204.9	9752.2	10762.6	11598.2	12791.5	13993.0	15464.9
70°	1941.5	1896.8	2065.5	2710.0	4346.5	7707.0	9099.6	9382.2	9825.4	10634.5	11628.7
72.5°	766.4	764.4	874.2	1120.2	2055.3	4960.5	7652.1	7814.8	7971.3	8323.0	8752.0
75°	502.1	502.1	534.7	603.8	1012.4	2394.9	6473.0	6621.4	6861.3	6960.9	7143.9
77.5°	378.1	380.2	394.4	410.7	559.1	1260.4	4568.1	5094.7	5501.2	5804.2	6025.8
80°	268.4	280.6	307.0	317.1	363.9	717.6	2581.9	2962.1	3421.5	3911.5	4527.4
82.5°	201.3	215.5	260.2	272.4	288.7	408.6	1164.9	1321.4	1543.0	2000.5	2876.7
85°	93.5	103.7	178.9	195.2	209.4	235.8	591.6	660.7	750.2	821.3	957.5
87.5°	14.2	10.2	30.5	42.7	67.1	69.1	203.3	241.9	262.3	315.1	327.3
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: P158197

CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3
2.5°	3370.7	3372.7	3374.7	3370.7	3372.7	3372.7	3368.7	3366.6	3366.6	3366.6	3368.7
5°	3435.7	3439.8	3435.7	3437.8	3445.9	3443.9	3439.8	3437.8	3445.9	3447.9	3441.8
7.5°	3551.6	3553.7	3545.5	3555.7	3559.8	3561.8	3561.8	3565.8	3565.8	3571.9	3565.8
10°	3700.0	3700.0	3714.3	3712.2	3714.3	3718.3	3720.4	3728.5	3734.6	3734.6	3738.7
12.5°	3870.8	3872.8	3887.1	3889.1	3897.2	3899.3	3911.5	3903.3	3923.7	3923.7	3929.8
15°	4047.7	4061.9	4063.9	4084.3	4088.3	4090.4	4106.6	4106.6	4120.9	4122.9	4127.0
17.5°	4222.5	4234.7	4242.8	4259.1	4273.3	4279.4	4285.5	4297.7	4307.9	4312.0	4322.1
20°	4372.9	4385.1	4393.3	4409.5	4421.7	4431.9	4438.0	4452.2	4462.4	4466.5	4480.7
22.5°	4499.0	4507.1	4521.4	4543.7	4547.8	4560.0	4578.3	4588.4	4592.5	4604.7	4621.0
25°	4633.2	4645.4	4653.5	4673.8	4690.1	4710.4	4726.7	4742.9	4747.0	4763.3	4777.5
27.5°	4812.1	4824.3	4826.3	4867.0	4883.2	4911.7	4930.0	4954.4	4966.6	4980.8	5009.3
30°	5076.4	5104.8	5117.0	5163.8	5171.9	5204.4	5237.0	5245.1	5263.4	5265.4	5312.2
32.5°	5480.9	5521.6	5537.8	5586.6	5598.8	5629.3	5647.6	5690.3	5692.3	5712.7	5722.8
35°	6143.7	6133.5	6196.5	6208.7	6245.3	6271.7	6290.0	6290.0	6328.7	6330.7	6342.9
37.5°	7048.3	7028.0	7044.3	6971.1	6989.4	6956.9	6950.8	6958.9	6942.6	6946.7	6944.7
40°	8495.8	8404.3	8308.8	8083.1	8034.3	7940.8	7867.6	7808.7	7751.8	7690.8	7650.1
42.5°	10311.3	10179.1	10036.8	9675.0	9506.2	9325.3	9148.4	9046.8	8843.5	8719.5	8652.4
45°	12214.2	12059.6	11860.4	11559.5	11319.6	11126.5	10803.3	10650.8	10335.7	10179.1	9967.7
47.5°	13773.4	13775.5	13614.9	13309.9	13053.8	12925.7	12724.4	12429.6	12071.8	11870.6	11494.5
50°	15137.6	15135.5	15125.4	14942.4	14763.5	14623.2	14446.4	14180.0	13887.3	13659.6	13228.6
52.5°	16145.9	16280.1	16337.0	16335.0	16312.6	16247.6	16113.4	15883.7	15586.9	15458.8	15115.2
55°	16979.5	17272.2	17424.7	17758.1	17788.6	17896.3	17778.4	17780.5	17605.6	17617.8	17508.0
57.5°	18241.9	18776.6	19083.6	19821.6	20191.6	20638.8	20559.5	20933.6	21069.8	21242.6	21472.4
60°	19675.2	20673.4	21401.2	22869.0	23466.7	24190.4	24588.9	25013.8	25322.8	25640.0	25873.8
62.5°	20699.8	22011.1	23206.5	25298.4	26075.0	26837.4	27339.5	27853.9	28201.5	28429.2	28598.0
65°	20281.0	21730.5	23143.5	25337.0	26182.8	26735.7	27333.4	27630.3	27977.9	28167.0	28408.9
67.5°	17233.6	18687.2	20201.7	22789.7	23674.1	24438.5	24904.0	25288.3	25568.8	25808.7	26087.2
70°	12815.9	14405.7	15971.1	18809.1	19925.3	21029.2	21578.1	22053.8	22346.5	22588.5	22895.4
72.5°	9223.6	10219.8	11197.7	14375.2	15491.3	16918.5	17487.7	18016.3	18396.4	18384.3	18709.5
75°	7343.1	7747.7	8182.8	9823.4	10624.4	11827.9	12147.1	12443.9	12265.0	11921.4	11901.1
77.5°	6113.2	6279.9	6426.3	6940.6	7058.5	7345.2	7186.6	7021.9	6491.3	6044.1	5808.2
80°	4962.5	5291.9	5507.3	5873.3	6023.7	6109.1	6131.5	6074.5	5879.4	5609.0	5178.0
82.5°	3689.9	4316.0	4742.9	5462.6	5726.9	5781.8	5887.5	5822.5	5694.4	5474.8	5165.8
85°	1081.5	1223.9	1402.8	1902.9	2230.2	2508.7	2793.3	2933.6	3021.0	2899.0	2579.9
87.5°	380.2	429.0	479.8	660.7	703.4	849.8	833.5	984.0	990.1	1032.8	988.0
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: P158197

CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3
2.5°	3366.6	3366.6	3366.6	3368.7	3368.7	3368.7	3364.6	3362.6	3364.6	3368.7	3368.7
5°	3445.9	3447.9	3452.0	3443.9	3445.9	3452.0	3447.9	3445.9	3447.9	3452.0	3447.9
7.5°	3574.0	3576.0	3571.9	3580.1	3580.1	3584.1	3590.2	3584.1	3586.2	3588.2	3590.2
10°	3740.7	3742.7	3746.8	3752.9	3754.9	3759.0	3763.0	3769.1	3769.1	3765.1	3775.2
12.5°	3939.9	3937.9	3942.0	3950.1	3954.1	3960.2	3972.4	3972.4	3980.6	3978.5	3988.7
15°	4135.1	4145.2	4147.3	4161.5	4167.6	4177.8	4192.0	4200.1	4200.1	4212.3	4216.4
17.5°	4330.3	4338.4	4346.5	4358.7	4366.8	4372.9	4389.2	4399.4	4397.3	4419.7	4419.7
20°	4480.7	4497.0	4507.1	4515.3	4529.5	4539.6	4551.8	4564.0	4572.2	4586.4	4590.5
22.5°	4627.1	4637.2	4651.5	4661.6	4677.9	4690.1	4704.3	4714.5	4728.7	4747.0	4753.1
25°	4789.7	4806.0	4822.2	4836.5	4848.7	4862.9	4887.3	4909.7	4930.0	4946.2	4952.3
27.5°	5015.4	5033.7	5058.1	5068.2	5086.5	5098.7	5135.3	5163.8	5173.9	5202.4	5210.5
30°	5320.3	5340.6	5365.0	5377.2	5409.8	5426.0	5464.7	5495.1	5505.3	5539.9	5546.0
32.5°	5761.5	5773.7	5822.5	5820.4	5865.2	5911.9	5934.3	5958.7	6003.4	6021.7	6027.8
35°	6373.4	6401.9	6436.4	6434.4	6491.3	6517.7	6562.5	6588.9	6621.4	6619.4	6653.9
37.5°	6965.0	6975.2	6987.4	7013.8	7054.4	7091.0	7107.3	7133.7	7158.1	7194.7	7239.4
40°	7609.4	7633.8	7635.9	7650.1	7670.4	7717.2	7747.7	7776.2	7859.5	7912.4	7938.8
42.5°	8575.1	8569.0	8528.4	8554.8	8567.0	8638.1	8660.5	8747.9	8841.4	8953.3	8983.7
45°	9817.3	9735.9	9711.6	9701.4	9766.4	9803.0	9894.5	10057.2	10154.7	10260.5	10311.3
47.5°	11346.1	11091.9	10972.0	10945.6	11012.7	11169.2	11199.7	11360.3	11488.4	11565.6	11616.5
50°	12876.9	12677.7	12425.6	12340.2	12321.9	12466.2	12500.8	12635.0	12765.1	12787.5	12761.0
52.5°	14800.1	14474.8	14058.1	13907.6	13787.7	13797.8	13826.3	13883.2	13966.6	13932.0	13860.9
55°	17260.0	16890.0	16684.7	16400.1	16219.1	16186.6	16062.6	15891.8	15885.7	15908.1	15694.6
57.5°	21356.5	21202.0	21289.4	21258.9	21080.0	21187.7	20628.7	20470.1	20344.0	20124.5	19927.3
60°	26081.1	26239.7	26420.6	26837.4	26819.1	27237.9	26849.6	26752.0	26634.1	25957.1	25625.7
62.5°	28892.7	28955.8	29222.1	29610.4	29992.6	30393.1	30574.0	30637.0	30391.0	29838.1	29146.9
65°	28402.8	28681.3	28939.5	29274.9	29667.3	30067.8	30450.0	30673.6	30616.7	30250.8	29490.4
67.5°	26176.7	26469.4	26847.6	27199.3	27622.1	27969.8	28388.6	28799.2	28811.4	28628.4	28099.9
70°	22928.0	23267.5	23657.8	23855.0	24312.4	24627.5	24975.2	25381.8	25513.9	25536.3	24920.3
72.5°	18640.4	18782.7	18973.8	18870.1	18961.6	19162.9	19069.4	19101.9	18599.7	18693.3	17932.9
75°	11352.2	11222.1	10644.7	10118.1	9475.7	8981.7	9099.6	8156.3	7227.2	7180.5	6509.6
77.5°	5757.4	5550.0	5192.2	4820.2	4275.4	3651.2	3130.8	2569.7	2096.0	1825.6	1567.4
80°	4903.6	4757.2	4560.0	4289.6	3893.2	3431.7	2888.9	2461.9	2065.5	1652.8	1323.5
82.5°	4692.1	4244.9	3958.2	3732.6	3303.6	2876.7	2579.9	2287.1	2006.6	1752.4	1388.5
85°	2327.8	2059.4	1742.3	1545.1	1189.3	931.1	872.1	717.6	668.9	516.4	435.1
87.5°	782.7	640.4	477.8	402.5	321.2	262.3	258.2	229.7	227.7	207.4	191.1
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: P158197

CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3
2.5°	3366.6	3370.7	3370.7	3366.6	3368.7	3364.6	3366.6	3368.7	3362.6	3360.5	3354.4
5°	3450.0	3447.9	3447.9	3450.0	3456.1	3458.1	3447.9	3452.0	3454.0	3443.9	3421.5
7.5°	3588.2	3588.2	3594.3	3592.3	3604.5	3600.4	3598.4	3598.4	3598.4	3578.0	3541.5
10°	3775.2	3775.2	3781.3	3789.5	3791.5	3787.4	3787.4	3789.5	3799.6	3759.0	3702.1
12.5°	3984.6	3994.8	3992.8	3992.8	4017.2	4011.1	4002.9	4011.1	4021.2	3964.3	3883.0
15°	4218.4	4224.5	4228.6	4242.8	4238.8	4253.0	4257.1	4253.0	4263.2	4190.0	4053.8
17.5°	4429.9	4442.1	4446.1	4462.4	4462.4	4464.4	4480.7	4474.6	4476.6	4393.3	4198.1
20°	4604.7	4616.9	4623.0	4641.3	4645.4	4653.5	4659.6	4663.7	4673.8	4574.2	4316.0
22.5°	4779.5	4789.7	4799.9	4812.1	4828.3	4838.5	4846.6	4850.7	4869.0	4753.1	4427.8
25°	4974.7	4997.1	5007.2	5027.6	5043.8	5060.1	5072.3	5074.3	5104.8	4960.5	4519.3
27.5°	5234.9	5265.4	5281.7	5314.2	5330.5	5346.7	5342.7	5367.1	5409.8	5198.3	4590.5
30°	5576.5	5615.1	5625.3	5657.8	5684.2	5700.5	5718.8	5739.1	5767.6	5462.6	4625.0
32.5°	6052.2	6111.1	6125.4	6143.7	6182.3	6210.8	6223.0	6255.5	6263.6	5712.7	4614.9
35°	6704.8	6678.3	6747.5	6763.7	6818.6	6841.0	6855.2	6897.9	6865.4	5985.1	4547.8
37.5°	7294.3	7286.2	7353.3	7389.9	7461.0	7444.8	7479.3	7507.8	7391.9	6178.2	4423.8
40°	8014.0	8003.8	8097.4	8109.6	8219.3	8194.9	8209.2	8231.5	7973.4	6312.4	4198.1
42.5°	9018.3	9022.4	9122.0	9134.2	9148.4	9193.1	9120.0	9124.0	8591.4	6349.0	3826.1
45°	10341.8	10412.9	10351.9	10354.0	10349.9	10264.5	10173.0	10065.3	9233.8	6223.0	3346.3
47.5°	11624.6	11575.8	11498.5	11427.4	11368.4	11234.3	11100.1	10917.1	9788.8	5924.1	2811.6
50°	12722.4	12612.6	12543.5	12346.3	12206.0	12031.2	11844.2	11634.8	10244.2	5493.1	2311.5
52.5°	13743.0	13629.1	13370.9	13165.6	12964.3	12732.6	12515.0	12269.0	10646.7	5001.1	1929.3
55°	15438.5	15338.8	15080.7	14704.6	14456.5	14137.4	13850.7	13517.3	11461.9	4602.7	1677.2
57.5°	19384.5	19299.1	18756.3	18518.4	18191.1	17390.1	17272.2	16751.8	13647.4	4555.9	1528.8
60°	24940.6	24574.7	24123.4	23472.8	22706.4	22442.1	21852.5	21159.3	17164.5	4684.0	1408.9
62.5°	28352.0	27518.4	26855.7	26105.5	25400.1	24794.2	24149.8	23464.7	18963.7	4515.3	1260.4
65°	28608.1	27628.2	26752.0	25871.7	25078.9	24324.6	23698.5	23013.4	18378.2	3881.0	1067.3
67.5°	27197.2	26164.5	25209.0	24210.8	23409.8	22728.7	21931.8	21273.1	16727.4	3021.0	888.4
70°	24288.0	23381.3	22558.0	21482.5	20817.7	19988.3	19482.1	18658.7	14580.5	2059.4	733.9
72.5°	17493.8	16810.7	16542.4	15792.2	14922.1	14434.2	14200.4	13401.4	10774.8	1278.7	599.7
75°	5909.9	6078.6	5692.3	5100.8	5389.4	4944.2	5125.1	4745.0	4557.9	733.9	504.2
77.5°	1311.3	1232.0	1138.5	1057.2	1051.1	988.0	1047.0	990.1	1059.2	467.6	445.2
80°	1034.8	817.3	695.3	634.3	601.8	583.5	569.2	553.0	504.2	398.5	410.7
82.5°	1118.1	843.7	618.0	494.0	422.9	396.4	390.3	374.1	370.0	386.3	414.7
85°	357.8	298.8	254.1	239.9	221.6	211.4	207.4	201.3	244.0	420.8	398.5
87.5°	187.0	164.7	146.4	140.3	122.0	113.8	111.8	113.8	170.8	420.8	288.7
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: P158197

CATALOG NUMBER: VTS-F12-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3	3346.3
2.5°	3348.3	3346.3	3342.2	3340.2	3338.2	3328.0	3336.1
5°	3411.3	3391.0	3372.7	3350.4	3338.2	3328.0	3328.0
7.5°	3506.9	3450.0	3403.2	3352.4	3317.8	3291.4	3287.3
10°	3626.8	3517.1	3409.3	3317.8	3252.8	3204.0	3197.9
12.5°	3740.7	3574.0	3403.2	3252.8	3151.1	3082.0	3077.9
15°	3846.4	3604.5	3356.5	3134.9	2982.4	2890.9	2880.7
17.5°	3929.8	3586.2	3250.7	2970.2	2762.8	2655.1	2649.0
20°	3948.1	3513.0	3100.3	2766.9	2547.3	2433.5	2407.1
22.5°	3931.8	3380.8	2913.3	2543.3	2291.2	2177.3	2163.1
25°	3883.0	3220.2	2681.5	2283.0	2049.2	1933.4	1904.9
27.5°	3795.6	3031.2	2431.4	2030.9	1799.2	1687.4	1658.9
30°	3665.5	2803.5	2165.1	1795.1	1555.2	1465.8	1437.3
32.5°	3484.5	2527.0	1902.9	1553.2	1354.0	1282.8	1270.6
35°	3234.5	2209.9	1628.4	1354.0	1207.6	1164.9	1158.8
37.5°	2915.3	1892.7	1398.7	1211.7	1105.9	1079.5	1075.4
40°	2498.5	1567.4	1236.1	1110.0	1032.8	1010.4	1006.3
42.5°	2069.6	1323.5	1116.1	1028.7	965.7	945.3	939.2
45°	1693.5	1158.8	1026.7	961.6	902.6	880.3	878.2
47.5°	1412.9	1063.2	953.5	900.6	841.7	815.2	817.3
50°	1207.6	975.8	892.5	847.8	780.7	756.3	758.3
52.5°	1067.3	888.4	835.6	784.7	727.8	703.4	703.4
55°	957.5	817.3	780.7	725.8	681.0	658.7	656.7
57.5°	868.1	760.3	727.8	683.1	638.4	611.9	611.9
60°	813.2	719.7	693.2	652.6	599.7	571.3	569.2
62.5°	780.7	707.5	685.1	628.2	569.2	540.8	534.7
65°	756.3	735.9	707.5	614.0	544.8	514.3	508.2
67.5°	758.3	803.0	762.4	622.1	536.7	492.0	483.8
70°	770.5	855.9	801.0	640.4	571.3	481.8	463.5
72.5°	709.5	774.6	721.7	609.9	557.0	463.5	441.2
75°	591.6	565.2	518.4	496.0	500.1	420.8	412.7
77.5°	479.8	420.8	376.1	394.4	420.8	359.8	351.7
80°	416.8	341.5	319.2	349.7	382.2	307.0	286.7
82.5°	390.3	288.7	274.5	363.9	400.5	264.3	231.8
85°	343.6	235.8	215.5	429.0	400.5	199.2	185.0
87.5°	229.7	140.3	134.2	315.1	274.5	138.2	111.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)