

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: P158189

Luminaire Tested: **VTS-E12-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158189
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-E12-LED-E1-SL2-7030
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (252) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

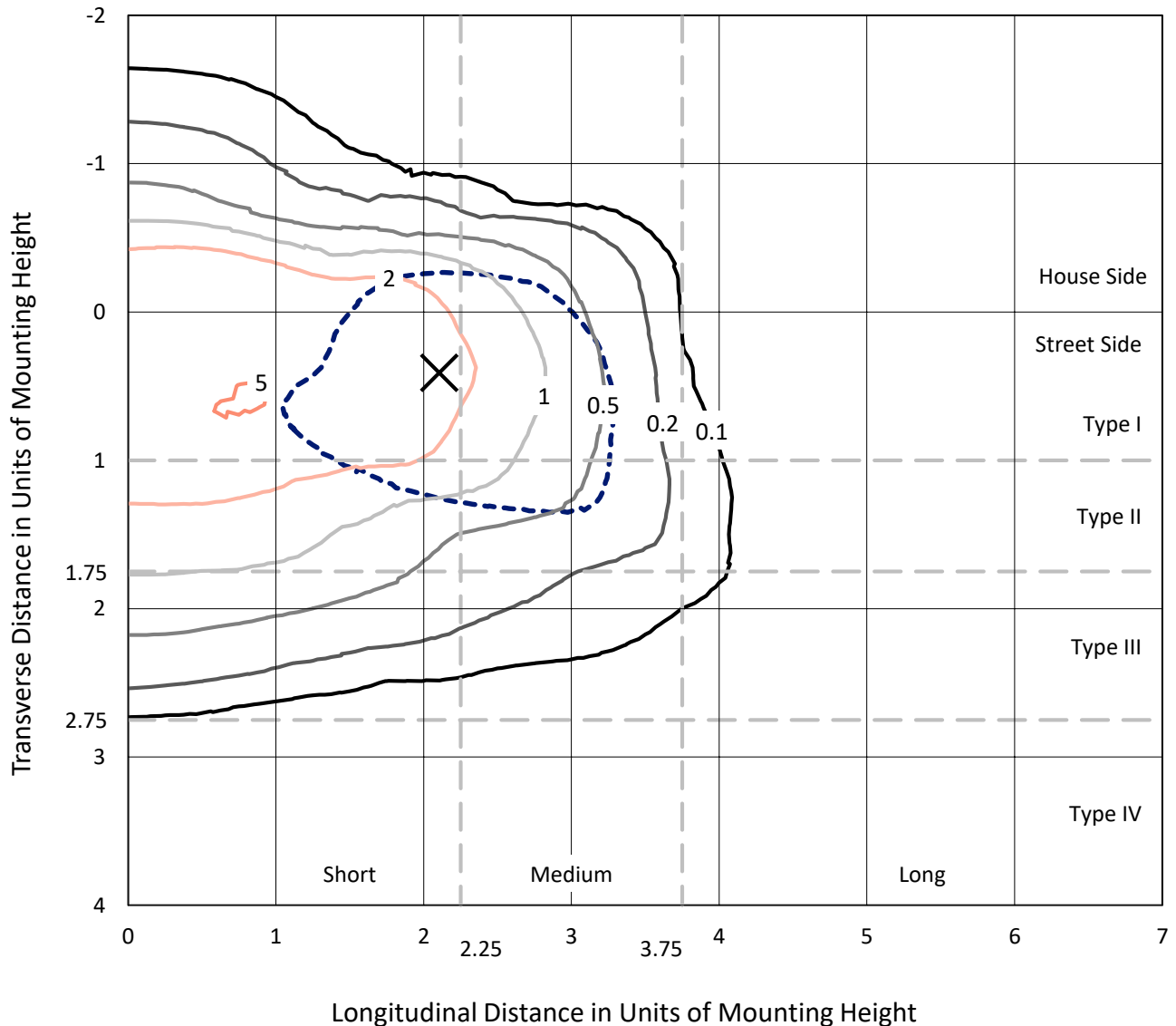
Lumens per Lamp: N/A
Luminaire Lumens: 32976.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 291.7
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: P158189
 CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

Iso-Footcandle Lines of Horizontal Illumination

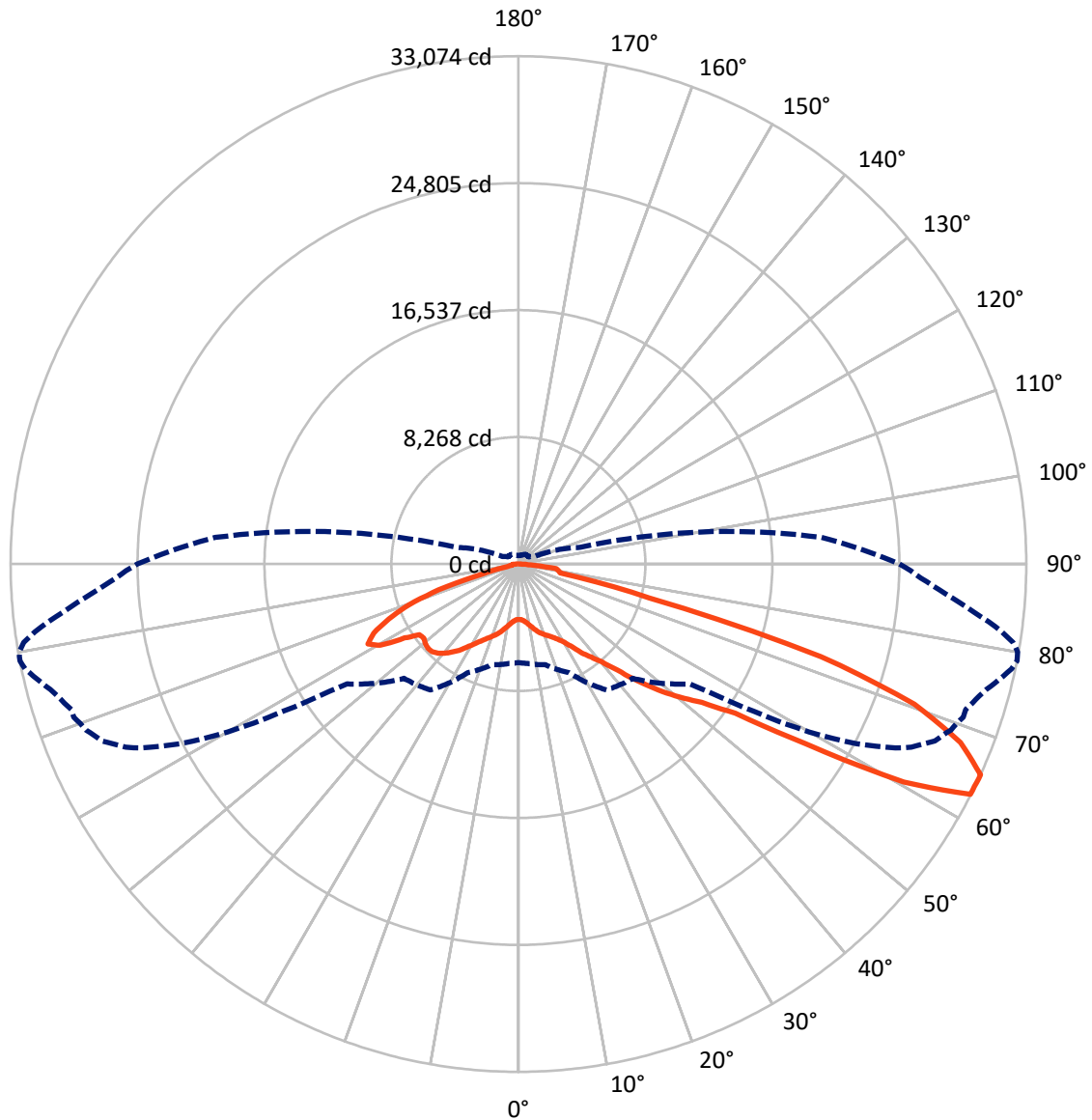
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P158189
CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P158189

CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7577.5	0.0	7577.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	25399.2	0.0	25399.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	32976.7	0.0	32976.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	1.1
10°-20°	1159.4	3.5
20°-30°	1998.7	6.1
30°-40°	3273.8	9.9
40°-50°	5482.5	16.6
50°-60°	7415.9	22.5
60°-70°	9132.6	27.7
70°-80°	3535.2	10.7
80°-90°	621.7	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°	32976.7	100.0
0°-180°	32976.7	100.0



REPORT NUMBER: P158189

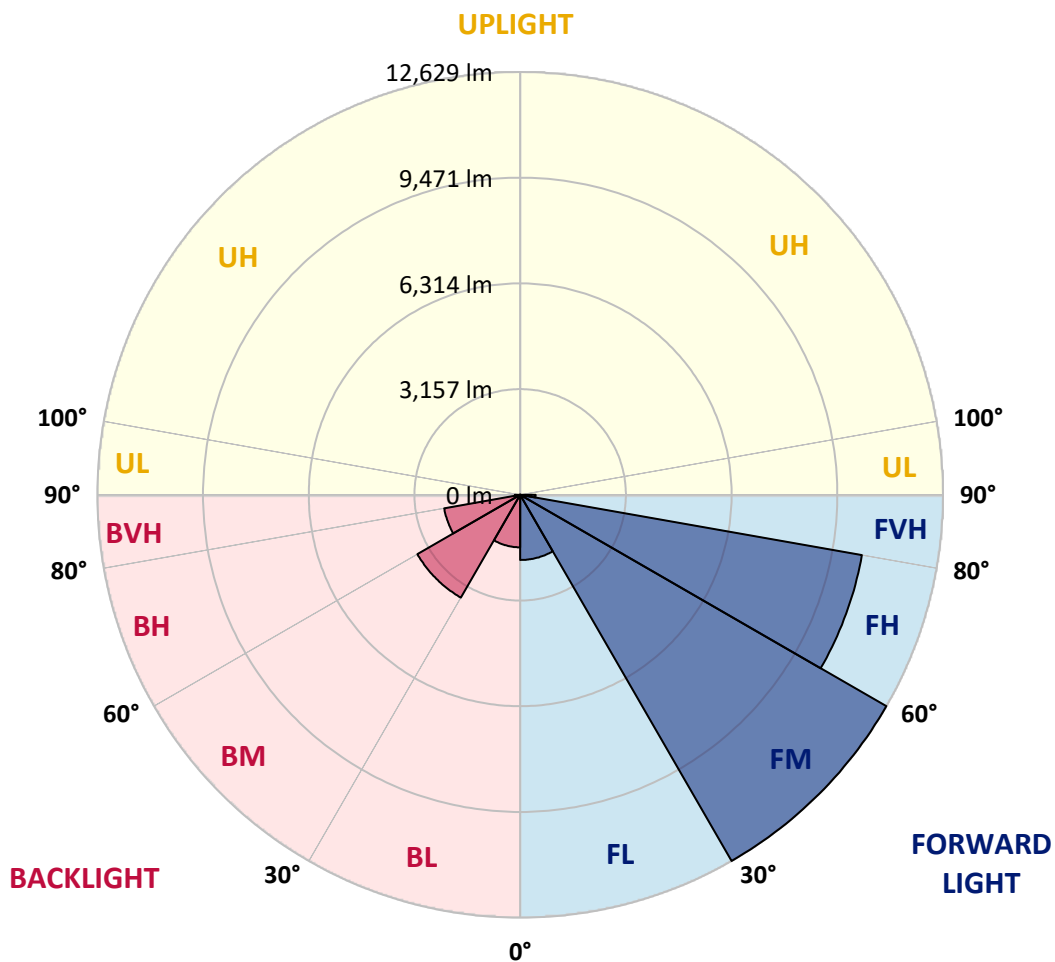
CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1946.9	5.9			
FM	(30°-60°)	12628.6	38.3			
FH	(60°-80°)	10362.4	31.4			G4/12000
FVH	(80°-90°)	461.3	1.4			G3/500
BL	(0°-30°)	1568.2	4.8	B3/2500		
BM	(30°-60°)	3543.6	10.7	B3/5000		
BH	(60°-80°)	2305.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	160.4	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: P158189

CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1
2.5°	3614.7	3603.7	3614.7	3623.4	3630.0	3638.8	3636.6	3634.4	3632.2	3634.4	3634.4
5°	3645.4	3643.2	3654.1	3662.9	3678.2	3689.2	3702.4	3702.4	3702.4	3700.2	3704.5
7.5°	3744.0	3741.8	3752.8	3761.5	3774.7	3796.6	3814.2	3822.9	3820.7	3820.7	3820.7
10°	3906.2	3897.4	3897.4	3897.4	3915.0	3930.3	3969.8	3974.2	3982.9	3978.6	3980.7
12.5°	4064.0	4066.2	4059.7	4053.1	4055.3	4086.0	4143.0	4153.9	4156.1	4162.7	4167.1
15°	4206.5	4204.3	4189.0	4173.6	4193.4	4246.0	4320.5	4340.2	4340.2	4353.4	4362.2
17.5°	4338.0	4333.7	4305.2	4278.9	4298.6	4388.5	4504.6	4517.8	4537.5	4544.1	4552.9
20°	4493.7	4484.9	4452.0	4381.9	4381.9	4504.6	4658.1	4671.2	4688.8	4693.2	4708.5
22.5°	4710.7	4688.8	4618.6	4491.5	4456.4	4598.9	4787.4	4794.0	4807.1	4824.7	4837.8
25°	4956.2	4960.6	4846.6	4625.2	4548.5	4697.5	4912.4	4923.3	4947.4	4960.6	4975.9
27.5°	5210.5	5217.1	5089.9	4813.7	4684.4	4833.4	5081.2	5094.3	5122.8	5138.1	5162.3
30°	5499.8	5508.6	5385.8	5107.5	4910.2	5032.9	5331.0	5366.1	5390.2	5410.0	5449.4
32.5°	6194.7	6142.1	6056.6	5760.7	5449.4	5440.6	5734.4	5773.8	5806.7	5848.4	5885.6
35°	7069.3	7102.2	7146.1	6946.6	6672.6	6473.1	6497.2	6475.3	6506.0	6567.4	6604.6
37.5°	7762.0	7834.4	8025.1	8154.4	8143.4	8104.0	7735.7	7735.7	7755.4	7722.6	7718.2
40°	8305.6	8351.7	8741.9	9243.8	9666.9	9875.1	9583.6	9542.0	9563.9	9395.1	9401.7
42.5°	8586.2	8654.2	9215.3	10096.5	10936.1	11604.7	11514.8	11486.3	11420.5	11378.9	11352.6
45°	8728.7	8809.8	9478.4	10688.4	11911.5	12944.0	13408.7	13404.3	13345.1	13296.9	13275.0
47.5°	8656.4	8726.5	9438.9	10868.1	12424.5	13807.7	14835.7	14899.3	14881.8	14951.9	14980.4
50°	8182.9	8272.8	8987.4	10480.1	12209.7	14147.4	15824.3	15942.7	16102.7	16203.6	16337.3
52.5°	7755.4	7830.0	8474.4	9851.0	11503.8	13871.2	16420.6	16663.9	16883.1	17089.2	17249.2
55°	7308.3	7382.8	7948.3	9197.8	10791.4	13055.8	16692.4	17047.5	17389.5	17738.0	18058.0
57.5°	7139.5	7218.4	7639.3	8691.4	10208.3	12246.9	16826.1	17409.2	17966.0	18557.8	19171.6
60°	7577.9	7648.0	7968.1	8704.6	9763.3	11438.1	16556.5	17472.8	18430.7	19406.1	20348.7
62.5°	7444.2	7481.4	7880.4	9022.4	10331.1	10640.2	15388.1	16598.1	17990.1	19419.3	20863.8
65°	6422.7	6495.0	6795.3	7799.3	10013.2	10532.8	13608.2	14824.8	16466.6	18156.7	20092.2
67.5°	4607.7	4506.8	4739.2	5618.2	7768.6	10515.2	11604.7	12505.6	13792.3	15087.8	16674.9
70°	2093.4	2045.2	2227.1	2922.0	4686.6	8310.0	9811.6	10116.3	10594.1	11466.6	12538.5
72.5°	826.4	824.2	942.6	1207.8	2216.2	5348.6	8250.8	8426.2	8595.0	8974.2	9436.7
75°	541.4	541.4	576.5	651.0	1091.6	2582.2	6979.5	7139.5	7398.1	7505.5	7702.8
77.5°	407.7	409.9	425.3	442.8	602.8	1359.1	4925.5	5493.3	5931.7	6258.3	6497.2
80°	289.3	302.5	331.0	342.0	392.4	773.8	2783.9	3193.8	3689.2	4217.5	4881.7
82.5°	217.0	232.4	280.6	293.7	311.3	440.6	1256.0	1424.8	1663.8	2157.0	3101.7
85°	100.8	111.8	192.9	210.4	225.8	254.3	637.9	712.4	808.9	885.6	1032.5
87.5°	15.3	11.0	32.9	46.0	72.3	74.5	219.2	260.9	282.8	339.8	352.9
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: P158189

CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1
2.5°	3634.4	3636.6	3638.8	3634.4	3636.6	3636.6	3632.2	3630.0	3630.0	3630.0	3632.2
5°	3704.5	3708.9	3704.5	3706.7	3715.5	3713.3	3708.9	3706.7	3715.5	3717.7	3711.1
7.5°	3829.5	3831.7	3822.9	3833.9	3838.3	3840.5	3840.5	3844.8	3844.8	3851.4	3844.8
10°	3989.5	3989.5	4004.9	4002.7	4004.9	4009.2	4011.4	4020.2	4026.8	4026.8	4031.2
12.5°	4173.6	4175.8	4191.2	4193.4	4202.1	4204.3	4217.5	4208.7	4230.6	4230.6	4237.2
15°	4364.4	4379.7	4381.9	4403.8	4408.2	4410.4	4427.9	4427.9	4443.3	4445.5	4449.8
17.5°	4552.9	4566.0	4574.8	4592.3	4607.7	4614.2	4620.8	4634.0	4644.9	4649.3	4660.3
20°	4715.1	4728.2	4737.0	4754.5	4767.7	4778.6	4785.2	4800.6	4811.5	4815.9	4831.3
22.5°	4851.0	4859.8	4875.1	4899.2	4903.6	4916.7	4936.5	4947.4	4951.8	4965.0	4982.5
25°	4995.7	5008.8	5017.6	5039.5	5057.0	5079.0	5096.5	5114.0	5118.4	5136.0	5151.3
27.5°	5188.6	5201.7	5203.9	5247.7	5265.3	5296.0	5315.7	5342.0	5355.2	5370.5	5401.2
30°	5473.5	5504.2	5517.4	5567.8	5576.6	5611.6	5646.7	5655.5	5675.2	5677.4	5727.8
32.5°	5909.7	5953.6	5971.1	6023.7	6036.9	6069.8	6089.5	6135.5	6137.7	6159.6	6170.6
35°	6624.3	6613.4	6681.3	6694.5	6733.9	6762.4	6782.2	6782.2	6823.8	6826.0	6839.2
37.5°	7599.8	7577.9	7595.4	7516.5	7536.2	7501.2	7494.6	7503.4	7485.8	7490.2	7488.0
40°	9160.5	9061.9	8958.9	8715.6	8662.9	8562.1	8483.2	8419.6	8358.3	8292.5	8248.6
42.5°	11118.0	10975.5	10822.1	10431.9	10250.0	10054.9	9864.2	9754.6	9535.4	9401.7	9329.3
45°	13169.8	13003.2	12788.4	12463.9	12205.3	11997.0	11648.5	11484.1	11144.3	10975.5	10747.6
47.5°	14851.1	14853.3	14680.1	14351.3	14075.1	13937.0	13720.0	13402.1	13016.3	12799.3	12393.8
50°	16321.9	16319.7	16308.8	16111.5	15918.6	15767.3	15576.6	15289.5	14973.8	14728.3	14263.6
52.5°	17409.2	17553.9	17615.2	17613.0	17588.9	17518.8	17374.1	17126.4	16806.4	16668.3	16297.8
55°	18307.9	18623.6	18788.0	19147.5	19180.4	19296.5	19169.4	19171.6	18983.1	18996.2	18877.9
57.5°	19669.2	20245.7	20576.7	21372.4	21771.3	22253.6	22168.1	22571.4	22718.3	22904.6	23152.3
60°	21214.6	22290.9	23075.6	24658.3	25302.7	26083.1	26512.7	26970.9	27304.1	27646.0	27898.1
62.5°	22319.4	23733.2	25022.1	27277.8	28115.1	28937.1	29478.6	30033.2	30408.0	30653.5	30835.4
65°	21867.8	23430.7	24954.2	27319.4	28231.3	28827.5	29472.0	29792.0	30166.9	30370.7	30631.6
67.5°	18581.9	20149.2	21782.3	24572.8	25526.3	26350.5	26852.5	27266.8	27569.3	27828.0	28128.3
70°	13818.6	15532.8	17220.7	20280.8	21484.2	22674.5	23266.3	23779.3	24094.9	24355.8	24686.8
72.5°	9945.3	11019.4	12073.8	15499.9	16703.4	18242.2	18855.9	19425.9	19835.8	19822.6	20173.4
75°	7917.7	8353.9	8823.0	10591.9	11455.6	12753.3	13097.4	13417.5	13224.6	12854.1	12832.2
77.5°	6591.5	6771.2	6929.0	7483.6	7610.8	7919.8	7748.9	7571.3	6999.2	6516.9	6262.7
80°	5350.8	5705.9	5938.2	6332.8	6495.0	6587.1	6611.2	6549.8	6339.4	6047.8	5583.1
82.5°	3978.6	4653.7	5114.0	5890.0	6175.0	6234.2	6348.2	6278.0	6139.9	5903.2	5570.0
85°	1166.2	1319.6	1512.5	2051.8	2404.7	2705.0	3011.9	3163.1	3257.4	3125.9	2781.7
87.5°	409.9	462.5	517.3	712.4	758.4	916.3	898.7	1060.9	1067.5	1113.6	1065.3
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: P158189

CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1
2.5°	3630.0	3630.0	3630.0	3632.2	3632.2	3632.2	3627.8	3625.6	3627.8	3632.2	3632.2
5°	3715.5	3717.7	3722.1	3713.3	3715.5	3722.1	3717.7	3715.5	3717.7	3722.1	3717.7
7.5°	3853.6	3855.8	3851.4	3860.2	3860.2	3864.6	3871.1	3864.6	3866.8	3869.0	3871.1
10°	4033.4	4035.5	4039.9	4046.5	4048.7	4053.1	4057.5	4064.0	4064.0	4059.7	4070.6
12.5°	4248.2	4246.0	4250.4	4259.1	4263.5	4270.1	4283.2	4283.2	4292.0	4289.8	4300.8
15°	4458.6	4469.6	4471.8	4487.1	4493.7	4504.6	4520.0	4528.8	4528.8	4541.9	4546.3
17.5°	4669.0	4677.8	4686.6	4699.7	4708.5	4715.1	4732.6	4743.6	4741.4	4765.5	4765.5
20°	4831.3	4848.8	4859.8	4868.5	4883.9	4894.8	4908.0	4921.1	4929.9	4945.2	4949.6
22.5°	4989.1	5000.0	5015.4	5026.3	5043.9	5057.0	5072.4	5083.3	5098.7	5118.4	5125.0
25°	5164.4	5182.0	5199.5	5214.9	5228.0	5243.4	5269.7	5293.8	5315.7	5333.2	5339.8
27.5°	5407.8	5427.5	5453.8	5464.8	5484.5	5497.6	5537.1	5567.8	5578.7	5609.4	5618.2
30°	5736.6	5758.5	5784.8	5797.9	5833.0	5850.6	5892.2	5925.1	5936.0	5973.3	5979.9
32.5°	6212.2	6225.4	6278.0	6275.8	6324.0	6374.5	6398.6	6424.9	6473.1	6492.8	6499.4
35°	6872.0	6902.7	6940.0	6937.8	6999.2	7027.7	7075.9	7104.4	7139.5	7137.3	7174.5
37.5°	7509.9	7520.9	7534.0	7562.5	7606.4	7645.8	7663.4	7691.9	7718.2	7757.6	7805.9
40°	8204.8	8231.1	8233.3	8248.6	8270.6	8321.0	8353.9	8384.6	8474.4	8531.4	8559.9
42.5°	9246.0	9239.5	9195.6	9224.1	9237.3	9314.0	9338.1	9432.4	9533.2	9653.7	9686.6
45°	10585.4	10497.7	10471.4	10460.4	10530.6	10570.0	10668.7	10844.0	10949.2	11063.2	11118.0
47.5°	12233.8	11959.8	11830.4	11801.9	11874.3	12043.1	12076.0	12249.1	12387.2	12470.5	12525.3
50°	13884.4	13669.6	13397.8	13305.7	13286.0	13441.6	13478.9	13623.5	13763.8	13787.9	13759.4
52.5°	15958.1	15607.3	15158.0	14995.8	14866.4	14877.4	14908.1	14969.4	15059.3	15022.1	14945.3
55°	18610.4	18211.5	17990.1	17683.2	17488.1	17453.0	17319.3	17135.2	17128.6	17152.7	16922.6
57.5°	23027.4	22860.8	22955.1	22922.2	22729.3	22845.4	22242.6	22071.7	21935.8	21699.0	21486.4
60°	28121.7	28292.7	28487.8	28937.1	28917.4	29369.0	28950.3	28845.1	28717.9	27988.0	27630.7
62.5°	31153.3	31221.2	31508.4	31927.1	32339.2	32771.0	32966.1	33034.1	32768.8	32172.6	31427.3
65°	30625.0	30925.3	31203.7	31565.4	31988.5	32420.3	32832.4	33073.5	33012.1	32617.6	31797.7
67.5°	28224.7	28540.4	28948.1	29327.3	29783.3	30158.1	30609.7	31052.5	31065.6	30868.3	30298.4
70°	24721.8	25087.9	25508.8	25721.4	26214.6	26554.4	26929.2	27367.6	27510.1	27534.2	26870.0
72.5°	20098.8	20252.3	20458.3	20346.5	20445.2	20662.2	20561.3	20596.4	20055.0	20155.8	19336.0
75°	12240.4	12100.1	11477.5	10909.8	10217.1	9684.4	9811.6	8794.5	7792.7	7742.3	7018.9
77.5°	6207.9	5984.3	5598.5	5197.3	4609.9	3936.9	3375.7	2770.7	2260.0	1968.5	1690.1
80°	5287.2	5129.4	4916.7	4625.2	4197.8	3700.2	3114.9	2654.6	2227.1	1782.1	1427.0
82.5°	5059.2	4577.0	4267.9	4024.6	3562.1	3101.7	2781.7	2466.0	2163.5	1889.5	1497.2
85°	2509.9	2220.5	1878.6	1666.0	1282.3	1004.0	940.4	773.8	721.2	556.8	469.1
87.5°	843.9	690.5	515.1	434.0	346.3	282.8	278.4	247.7	245.5	223.6	206.1
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: P158189

CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1
2.5°	3630.0	3634.4	3634.4	3630.0	3632.2	3627.8	3630.0	3632.2	3625.6	3623.4	3616.9
5°	3719.9	3717.7	3717.7	3719.9	3726.5	3728.7	3717.7	3722.1	3724.3	3713.3	3689.2
7.5°	3869.0	3869.0	3875.5	3873.3	3886.5	3882.1	3879.9	3879.9	3879.9	3858.0	3818.5
10°	4070.6	4070.6	4077.2	4086.0	4088.2	4083.8	4083.8	4086.0	4096.9	4053.1	3991.7
12.5°	4296.4	4307.4	4305.2	4305.2	4331.5	4324.9	4316.1	4324.9	4335.9	4274.5	4186.8
15°	4548.5	4555.1	4559.4	4574.8	4570.4	4585.7	4590.1	4585.7	4596.7	4517.8	4370.9
17.5°	4776.5	4789.6	4794.0	4811.5	4811.5	4813.7	4831.3	4824.7	4826.9	4737.0	4526.6
20°	4965.0	4978.1	4984.7	5004.4	5008.8	5017.6	5024.2	5028.5	5039.5	4932.1	4653.7
22.5°	5153.5	5164.4	5175.4	5188.6	5206.1	5217.1	5225.8	5230.2	5249.9	5125.0	4774.3
25°	5363.9	5388.0	5399.0	5420.9	5438.5	5456.0	5469.1	5471.3	5504.2	5348.6	4872.9
27.5°	5644.5	5677.4	5694.9	5730.0	5747.5	5765.1	5760.7	5787.0	5833.0	5605.0	4949.6
30°	6012.8	6054.4	6065.4	6100.4	6128.9	6146.5	6166.2	6188.1	6218.8	5890.0	4986.9
32.5°	6525.7	6589.3	6604.6	6624.3	6666.0	6696.7	6709.8	6744.9	6753.7	6159.6	4975.9
35°	7229.4	7200.9	7275.4	7292.9	7352.1	7376.2	7391.6	7437.6	7402.5	6453.4	4903.6
37.5°	7865.0	7856.3	7928.6	7968.1	8044.8	8027.3	8064.5	8095.2	7970.3	6661.6	4769.9
40°	8641.0	8630.1	8730.9	8744.1	8862.4	8836.1	8851.5	8875.6	8597.2	6806.3	4526.6
42.5°	9723.9	9728.3	9835.7	9848.8	9864.2	9912.4	9833.5	9837.9	9263.6	6845.7	4125.4
45°	11150.9	11227.6	11161.9	11164.1	11159.7	11067.6	10969.0	10852.8	9956.2	6709.8	3608.1
47.5°	12534.1	12481.5	12398.2	12321.5	12257.9	12113.2	11968.5	11771.3	10554.7	6387.6	3031.6
50°	13717.8	13599.4	13524.9	13312.3	13161.0	12972.5	12770.8	12545.0	11045.7	5922.9	2492.4
52.5°	14818.2	14695.4	14417.1	14195.7	13978.6	13728.8	13494.2	13229.0	11479.7	5392.4	2080.2
55°	16646.4	16538.9	16260.6	15855.0	15587.6	15243.5	14934.4	14574.9	12358.7	4962.8	1808.4
57.5°	20901.1	20809.0	20223.8	19967.3	19614.4	18750.7	18623.6	18062.4	14715.2	4912.4	1648.4
60°	26892.0	26497.4	26010.8	25309.3	24482.9	24197.9	23562.2	22814.8	18507.4	5050.5	1519.1
62.5°	30570.2	29671.5	28956.9	28148.0	27387.4	26734.1	26039.3	25300.5	20447.4	4868.5	1359.1
65°	30846.4	29789.8	28845.1	27895.9	27041.0	26227.8	25552.6	24813.9	19816.0	4184.6	1150.8
67.5°	29325.1	28211.6	27181.3	26105.0	25241.4	24507.0	23647.7	22937.5	18036.1	3257.4	957.9
70°	26188.3	25210.7	24322.9	23163.3	22446.5	21552.1	21006.3	20118.6	15721.3	2220.5	791.3
72.5°	18862.5	18126.0	17836.6	17027.8	16089.6	15563.5	15311.4	14449.9	11617.8	1378.8	646.7
75°	6372.3	6554.2	6137.7	5499.8	5811.1	5331.0	5526.1	5116.2	4914.6	791.3	543.6
77.5°	1413.9	1328.4	1227.5	1139.9	1133.3	1065.3	1128.9	1067.5	1142.1	504.2	480.1
80°	1115.7	881.2	749.7	683.9	648.8	629.1	613.8	596.2	543.6	429.6	442.8
82.5°	1205.6	909.7	666.4	532.7	455.9	427.4	420.9	403.3	399.0	416.5	447.2
85°	385.8	322.2	274.0	258.7	238.9	228.0	223.6	217.0	263.0	453.8	429.6
87.5°	201.7	177.6	157.8	151.3	131.5	122.8	120.6	122.8	184.1	453.8	311.3
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: P158189

CATALOG NUMBER: VTS-E12-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1	3608.1
2.5°	3610.3	3608.1	3603.7	3601.5	3599.3	3588.4	3597.1
5°	3678.2	3656.3	3636.6	3612.5	3599.3	3588.4	3588.4
7.5°	3781.3	3719.9	3669.5	3614.7	3577.4	3548.9	3544.5
10°	3910.6	3792.2	3676.1	3577.4	3507.3	3454.7	3448.1
12.5°	4033.4	3853.6	3669.5	3507.3	3397.7	3323.1	3318.7
15°	4147.3	3886.5	3619.1	3380.1	3215.7	3117.1	3106.1
17.5°	4237.2	3866.8	3505.1	3202.6	2979.0	2862.8	2856.2
20°	4256.9	3787.8	3342.9	2983.4	2746.6	2623.9	2595.4
22.5°	4239.4	3645.4	3141.2	2742.2	2470.4	2347.7	2332.3
25°	4186.8	3472.2	2891.3	2461.7	2209.6	2084.6	2053.9
27.5°	4092.5	3268.3	2621.7	2189.8	1940.0	1819.4	1788.7
30°	3952.2	3022.8	2334.5	1935.6	1676.9	1580.5	1549.8
32.5°	3757.2	2724.7	2051.8	1674.7	1459.9	1383.2	1370.0
35°	3487.5	2382.7	1755.8	1459.9	1302.1	1256.0	1249.5
37.5°	3143.4	2040.8	1508.1	1306.5	1192.5	1164.0	1159.6
40°	2694.0	1690.1	1332.8	1196.9	1113.6	1089.4	1085.1
42.5°	2231.5	1427.0	1203.4	1109.2	1041.2	1019.3	1012.7
45°	1826.0	1249.5	1107.0	1036.8	973.3	949.2	947.0
47.5°	1523.5	1146.4	1028.1	971.1	907.5	879.0	881.2
50°	1302.1	1052.2	962.3	914.1	841.7	815.4	817.6
52.5°	1150.8	957.9	900.9	846.1	784.8	758.4	758.4
55°	1032.5	881.2	841.7	782.6	734.3	710.2	708.0
57.5°	936.0	819.8	784.8	736.5	688.3	659.8	659.8
60°	876.8	776.0	747.5	703.6	646.7	616.0	613.8
62.5°	841.7	762.8	738.7	677.3	613.8	583.1	576.5
65°	815.4	793.5	762.8	662.0	587.5	554.6	548.0
67.5°	817.6	865.9	822.0	670.8	578.7	530.5	521.7
70°	830.8	922.8	863.7	690.5	616.0	519.5	499.8
72.5°	765.0	835.2	778.2	657.6	600.6	499.8	475.7
75°	637.9	609.4	559.0	534.9	539.2	453.8	445.0
77.5°	517.3	453.8	405.5	425.3	453.8	388.0	379.2
80°	449.4	368.3	344.2	377.0	412.1	331.0	309.1
82.5°	420.9	311.3	295.9	392.4	431.8	285.0	249.9
85°	370.5	254.3	232.4	462.5	431.8	214.8	199.5
87.5°	247.7	151.3	144.7	339.8	295.9	149.1	120.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)