

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: P159278

Luminaire Tested: **VTS-E11-LED-E1-T2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159278  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E11-LED-E1-T2-8030  
Description: VENTUS LED SITE LUMINAIRE  
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (231) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28656.8 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G4

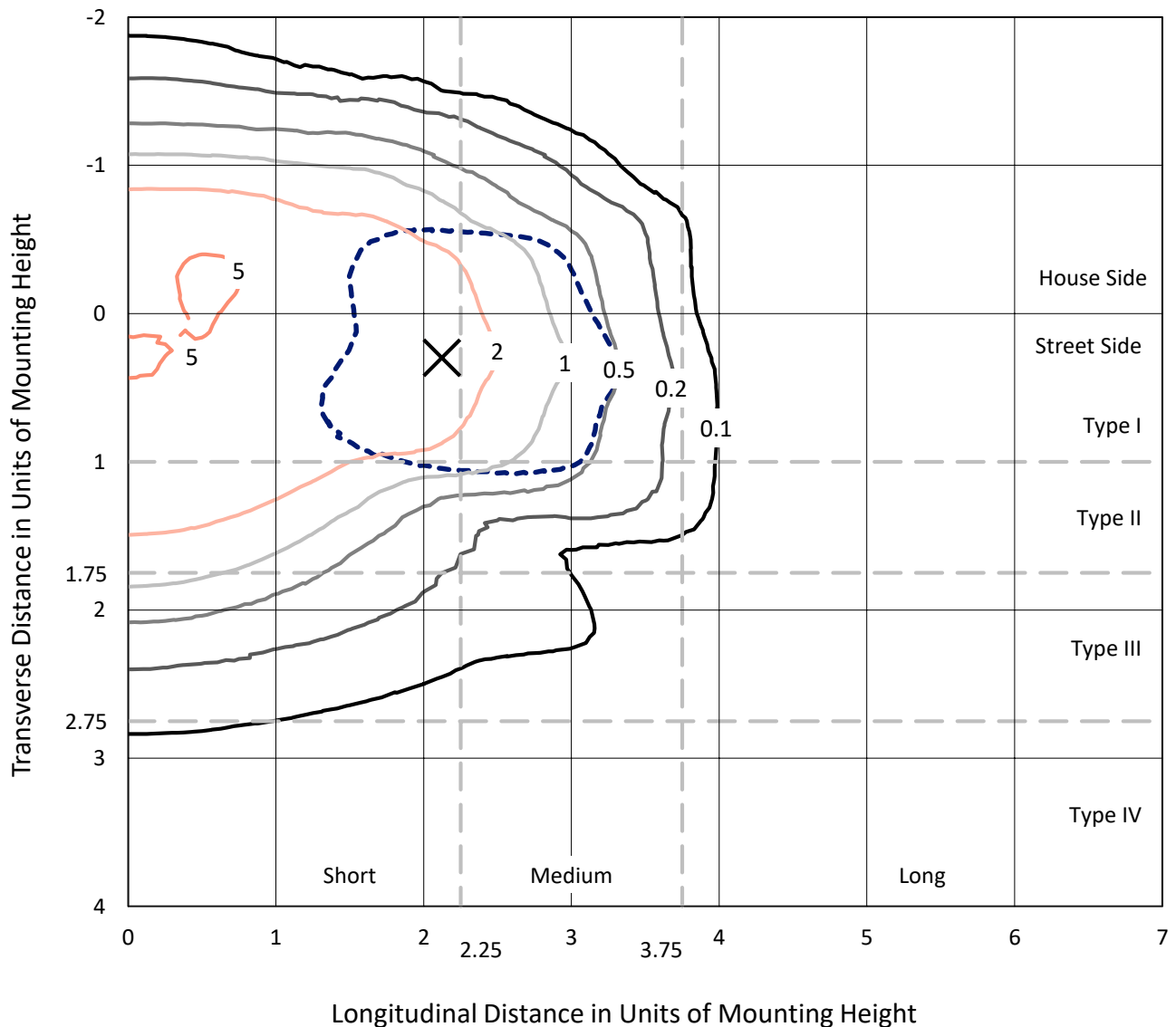
Input Watts (W): 269.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

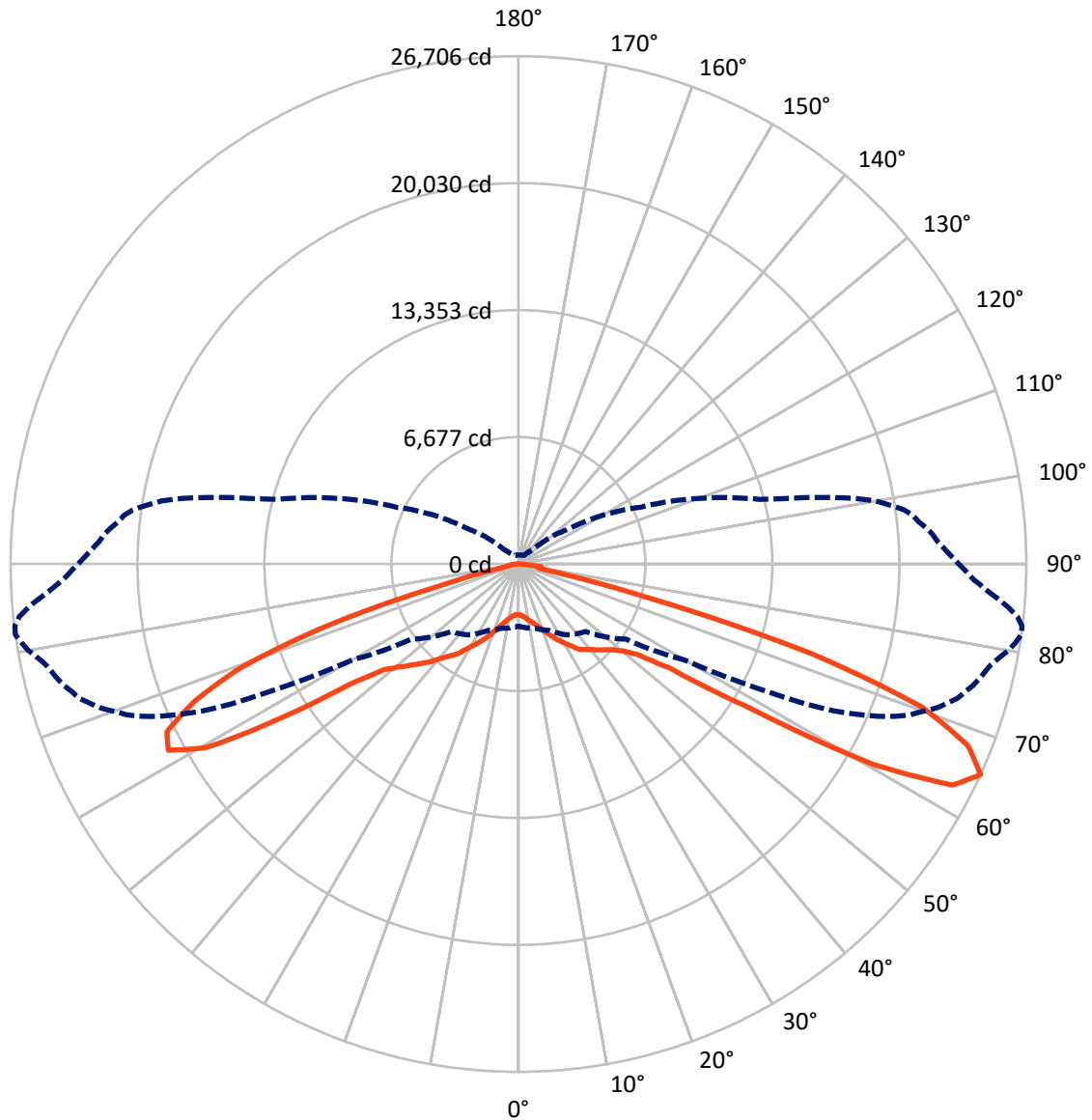


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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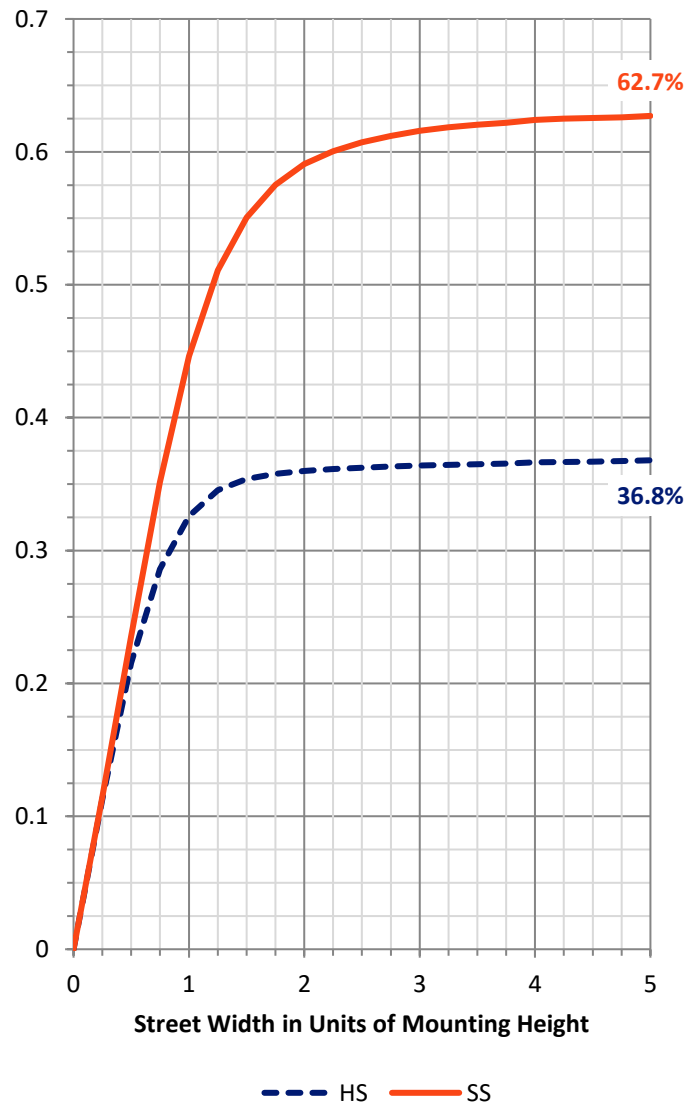
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10669.8	0.0	10669.8
	% Fixture	37.2	0.0	37.2
<b>Street Side</b>	Lumens	17986.9	0.0	17986.9
	% Fixture	62.8	0.0	62.8
<b>Total</b>	Lumens	28656.8	0.0	28656.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.9	0.9
10°-20°	948.5	3.3
20°-30°	1879.3	6.6
30°-40°	3221.6	11.2
40°-50°	4839.6	16.9
50°-60°	6723.8	23.5
60°-70°	7670.9	26.8
70°-80°	2642.5	9.2
80°-90°	460.6	1.6
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°	28656.8	100.0
0°-180°	28656.8	100.0



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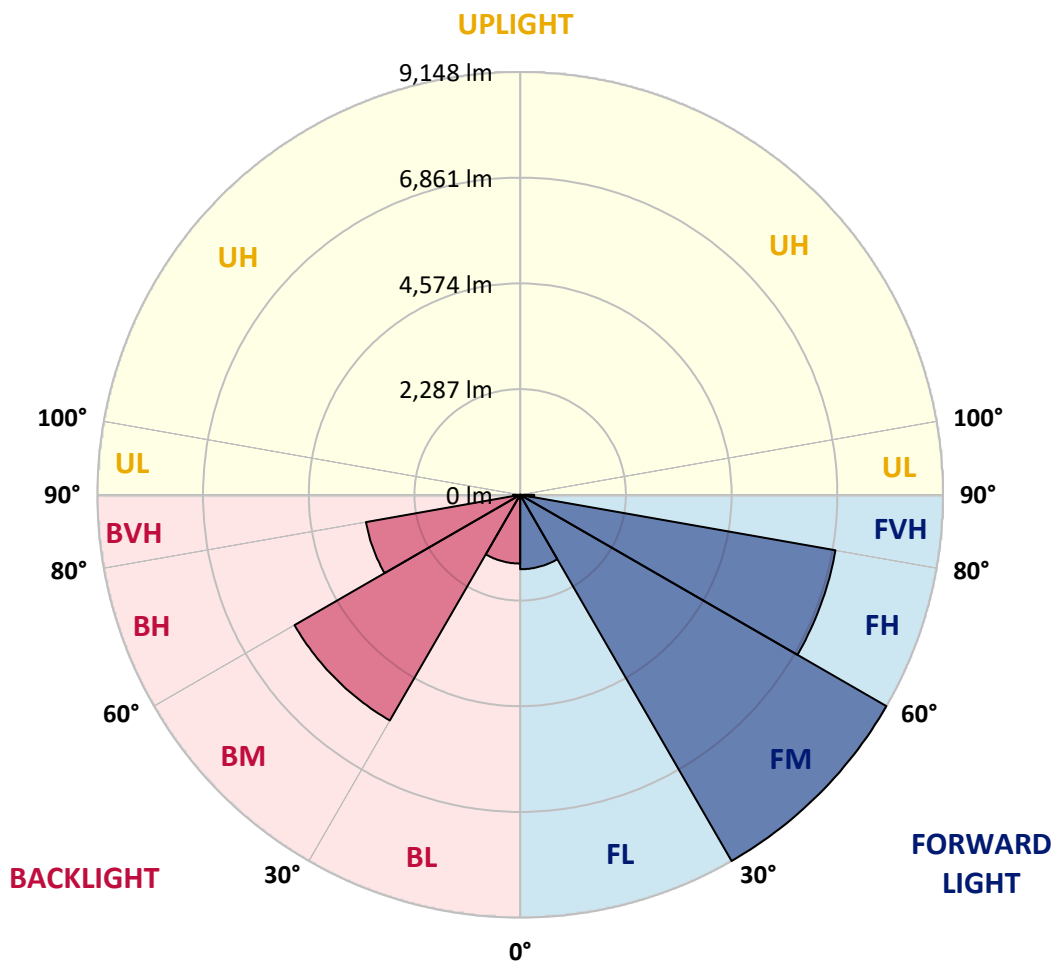
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1609.9	5.6			
FM	(30°-60°)	9147.8	31.9			
FH	(60°-80°)	6926.0	24.2			G3/7500
FVH	(80°-90°)	303.2	1.1			G3/500
BL	(0°-30°)	1487.8	5.2	B3/2500		
BM	(30°-60°)	5637.3	19.7	B4/8500		
BH	(60°-80°)	3387.4	11.8	B4/5000		G4/5000
BVH	(80°-90°)	157.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2811.2	2813.0	2811.2	2805.6	2803.7	2787.0	2768.5	2759.2	2757.3	2749.9	2751.7
5°	2985.7	2980.1	2972.7	2963.4	2954.1	2926.3	2894.7	2878.0	2872.4	2866.9	2859.4
7.5°	3141.7	3145.4	3141.7	3128.7	3104.5	3069.3	3028.4	3002.4	3000.6	2995.0	2989.4
10°	3342.2	3351.5	3329.2	3306.9	3273.5	3219.7	3173.2	3139.8	3134.2	3126.8	3123.1
12.5°	3559.4	3561.3	3553.9	3503.7	3448.0	3373.8	3306.9	3273.5	3266.1	3256.8	3253.1
15°	3791.5	3793.4	3752.6	3704.3	3618.9	3529.7	3436.9	3399.8	3390.5	3392.3	3377.5
17.5°	3975.4	3979.1	3940.1	3878.8	3776.7	3670.9	3570.6	3540.9	3535.3	3537.2	3529.7
20°	4055.2	4060.8	4036.6	3990.2	3893.7	3800.8	3728.4	3709.8	3708.0	3704.3	3719.1
22.5°	4051.5	4053.4	4044.1	4025.5	3967.9	3914.1	3904.8	3915.9	3914.1	3917.8	3930.8
25°	4018.1	4023.6	4021.8	4029.2	4019.9	4040.4	4083.1	4122.1	4127.6	4135.0	4159.2
27.5°	4103.5	4114.6	4101.6	4109.1	4123.9	4192.6	4279.9	4339.3	4350.4	4370.9	4391.3
30°	4437.7	4422.9	4406.1	4387.6	4396.9	4439.6	4538.0	4590.0	4595.5	4610.4	4638.2
32.5°	4933.5	4916.8	4901.9	4872.2	4864.8	4846.2	4879.6	4892.6	4890.8	4905.6	4913.0
35°	5492.4	5494.2	5490.5	5512.8	5531.3	5436.7	5319.7	5288.1	5301.1	5284.4	5288.1
37.5°	5969.5	5975.1	6073.5	6196.1	6231.4	6171.9	5915.7	5789.4	5746.7	5741.2	5698.5
40°	6498.7	6498.7	6647.3	6797.7	6896.1	6970.4	6665.8	6443.0	6352.0	6326.0	6220.2
42.5°	7079.9	7050.2	7185.7	7351.0	7533.0	7701.9	7544.1	7293.4	7163.5	7117.0	6931.4
45°	7557.1	7538.5	7605.4	7759.5	8054.7	8385.2	8407.5	8279.4	8201.4	8104.8	7934.0
47.5°	7850.5	7841.2	7880.2	8047.3	8416.8	8951.5	9250.5	9315.5	9269.0	9194.8	9029.5
50°	7965.6	7952.6	7980.4	8166.1	8580.2	9285.8	9946.8	10253.1	10275.4	10292.1	10240.1
52.5°	7924.7	7908.0	7965.6	8121.6	8552.3	9402.7	10490.8	11079.4	11177.8	11261.4	11432.2
55°	7533.0	7507.0	7662.9	7956.3	8431.6	9360.0	10888.2	11874.1	12082.1	12304.9	12683.7
57.5°	6933.2	6910.9	7135.6	7538.5	8218.1	9243.1	11155.5	12878.6	13346.5	13747.6	14822.7
60°	6355.8	6337.2	6469.0	6858.9	7525.5	8673.0	10825.0	13216.6	14002.0	14867.2	16829.9
62.5°	5323.4	5273.3	5449.6	5778.3	6199.8	7174.6	9382.3	12464.6	13675.2	14947.1	17607.8
65°	3271.6	3344.1	3496.3	3860.2	4551.0	5015.2	6890.5	10084.2	11681.0	13276.0	16727.7
67.5°	2077.7	2098.2	2211.4	2463.9	2998.7	3464.8	4175.9	6327.9	7559.0	9127.9	13133.0
70°	1780.7	1793.6	1890.2	2153.9	2523.4	3097.1	3160.2	3305.1	3747.0	4745.9	7720.5
72.5°	1403.7	1426.0	1502.1	1730.5	2176.1	2792.6	3901.1	2612.5	2523.4	2606.9	3767.4
75°	835.6	861.5	924.7	1049.1	1398.2	2135.3	4086.8	3039.5	2833.4	2671.9	2599.5
77.5°	441.9	423.3	466.1	538.5	718.6	1138.2	3071.1	3724.7	3579.9	3386.8	2976.4
80°	219.1	226.5	239.5	254.4	321.2	462.3	1535.6	3852.8	4270.6	4456.3	4092.3
82.5°	87.3	98.4	139.3	148.5	176.4	196.8	493.9	2135.3	3058.1	4148.0	5416.2
85°	44.6	42.7	74.3	89.1	104.0	92.8	174.5	796.6	1433.4	2233.7	3618.9
87.5°	5.6	7.4	16.7	22.3	31.6	29.7	50.1	172.7	274.8	389.9	547.8
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2742.5	2740.6	2740.6	2733.2	2733.2	2735.0	2729.5	2725.8	2725.8	2727.6	2720.2
5°	2853.9	2848.3	2848.3	2840.9	2831.6	2831.6	2824.2	2822.3	2818.6	2811.2	2805.6
7.5°	2983.8	2978.3	2969.0	2963.4	2959.7	2954.1	2944.9	2941.1	2933.7	2926.3	2918.9
10°	3117.5	3110.1	3106.4	3097.1	3093.4	3082.3	3076.7	3078.5	3063.7	3058.1	3060.0
12.5°	3251.2	3243.8	3230.8	3227.1	3225.2	3214.1	3208.5	3204.8	3193.7	3191.8	3186.2
15°	3370.1	3373.8	3368.2	3358.9	3351.5	3349.6	3344.1	3340.3	3332.9	3325.5	3318.1
17.5°	3524.2	3529.7	3522.3	3509.3	3509.3	3507.5	3509.3	3507.5	3494.5	3500.0	3496.3
20°	3721.0	3724.7	3706.1	3711.7	3715.4	3713.6	3719.1	3724.7	3721.0	3721.0	3726.6
22.5°	3947.5	3953.1	3941.9	3949.4	3960.5	3951.2	3967.9	3966.1	3969.8	3975.4	3977.2
25°	4179.6	4190.8	4181.5	4201.9	4194.5	4201.9	4222.3	4216.7	4226.0	4240.9	4246.5
27.5°	4411.7	4419.1	4421.0	4434.0	4447.0	4458.1	4484.1	4484.1	4491.6	4517.5	4517.5
30°	4654.9	4662.4	4669.8	4688.4	4695.8	4716.2	4742.2	4749.6	4745.9	4783.1	4794.2
32.5°	4935.3	4942.7	4955.7	4978.0	4987.3	5007.7	5007.7	5028.2	5043.0	5074.6	5076.4
35°	5308.5	5314.1	5308.5	5306.7	5319.7	5347.5	5349.4	5379.1	5392.1	5423.7	5432.9
37.5°	5681.7	5679.9	5655.8	5629.8	5631.6	5620.5	5613.0	5626.0	5631.6	5633.5	5653.9
40°	6184.9	6136.7	6099.5	6034.5	6004.8	5958.4	5930.6	5928.7	5899.0	5895.3	5900.8
42.5°	6844.1	6788.4	6701.1	6591.6	6508.0	6422.6	6359.5	6322.3	6257.3	6223.9	6196.1
45°	7765.1	7627.7	7523.7	7393.7	7232.2	7083.6	6927.6	6857.1	6732.7	6656.6	6571.1
47.5°	8890.3	8754.7	8595.0	8461.3	8249.7	8043.6	7830.0	7642.5	7425.3	7252.6	7111.5
50°	10112.0	10032.2	9917.1	9792.7	9519.7	9384.2	9114.9	8860.6	8626.6	8318.4	8049.1
52.5°	11365.4	11411.8	11385.8	11341.2	11168.5	11116.5	10884.4	10574.4	10338.6	10126.9	9659.0
55°	12910.2	12965.9	13077.3	13142.3	13121.9	13253.7	13196.1	12954.8	12860.1	12761.6	12429.3
57.5°	15273.9	15671.2	16096.4	16469.6	16556.9	17024.8	16924.6	17165.9	17336.8	17214.2	17106.5
60°	17793.5	18595.7	19317.9	20073.6	20688.2	21148.7	21757.7	22168.1	22426.2	22890.4	22927.5
62.5°	18809.2	19899.1	20816.4	21692.8	22422.5	23061.2	23610.8	24177.1	24641.3	25061.0	25363.6
65°	18252.1	19390.4	20502.6	21392.0	22093.8	22643.4	23241.3	23690.7	24147.4	24416.7	24734.2
67.5°	15173.6	16681.3	18049.8	19052.4	20012.4	20571.3	21278.7	21720.6	22205.2	22489.3	22693.6
70°	9892.9	11855.5	13725.3	15246.0	16542.1	17193.8	18047.9	18651.4	19234.4	19249.2	19589.0
72.5°	5338.2	6979.6	8544.9	10099.0	11577.0	12444.1	13287.1	14020.5	14599.9	14352.9	14690.8
75°	2972.7	3741.4	4597.4	5531.3	6431.9	6927.6	7557.1	7560.8	7859.7	7390.0	7508.8
77.5°	2859.4	2824.2	2837.2	2863.2	2907.7	2813.0	2811.2	2753.6	2664.5	2502.9	2530.8
80°	3756.3	3306.9	2983.8	2476.9	1994.2	1626.5	1524.4	1548.6	1621.0	1765.8	1949.6
82.5°	5431.1	5052.3	4510.1	3711.7	2913.3	2246.7	1845.6	1637.7	1628.4	1773.2	2051.7
85°	3954.9	4183.3	4148.0	3462.9	2855.7	2319.1	1687.8	1426.0	1180.9	1123.4	1221.8
87.5°	583.0	482.8	544.0	454.9	330.5	256.2	224.7	180.1	172.7	176.4	193.1
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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**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2722.0	2714.6	2707.2	2712.8	2707.2	2705.3	2699.8	2696.0	2694.2	2694.2	2694.2
5°	2805.6	2796.3	2790.7	2788.9	2783.3	2777.7	2775.9	2766.6	2764.7	2764.7	2759.2
7.5°	2918.9	2911.4	2902.1	2896.6	2892.9	2883.6	2874.3	2872.4	2870.6	2863.2	2857.6
10°	3050.7	3039.5	3028.4	3028.4	3021.0	3019.1	3009.8	2996.8	2995.0	2983.8	2980.1
12.5°	3175.1	3171.4	3158.4	3154.7	3149.1	3143.5	3138.0	3132.4	3126.8	3117.5	3121.2
15°	3323.6	3314.4	3303.2	3305.1	3303.2	3295.8	3288.4	3282.8	3279.1	3275.4	3275.4
17.5°	3501.9	3498.2	3496.3	3487.0	3479.6	3485.2	3485.2	3485.2	3475.9	3477.7	3479.6
20°	3728.4	3732.1	3728.4	3721.0	3719.1	3724.7	3711.7	3732.1	3721.0	3713.6	3717.3
22.5°	3979.1	3992.1	3977.2	3979.1	3988.4	3992.1	3979.1	3995.8	3990.2	3979.1	3988.4
25°	4252.0	4261.3	4253.9	4252.0	4257.6	4270.6	4268.7	4266.9	4279.9	4268.7	4274.3
27.5°	4532.4	4538.0	4541.7	4547.3	4551.0	4549.1	4556.5	4556.5	4564.0	4551.0	4556.5
30°	4810.9	4810.9	4818.3	4825.8	4825.8	4825.8	4840.6	4842.5	4831.3	4835.1	4822.1
32.5°	5108.0	5109.9	5117.3	5117.3	5132.1	5134.0	5150.7	5128.4	5150.7	5132.1	5135.9
35°	5457.1	5481.2	5484.9	5503.5	5518.4	5523.9	5523.9	5525.8	5546.2	5531.3	5536.9
37.5°	5661.3	5666.9	5681.7	5691.0	5691.0	5698.5	5704.0	5698.5	5704.0	5702.2	5707.7
40°	5902.7	5897.1	5913.8	5917.6	5910.1	5919.4	5917.6	5912.0	5926.8	5915.7	5923.1
42.5°	6196.1	6164.5	6162.7	6177.5	6162.7	6170.1	6168.2	6155.2	6173.8	6179.4	6173.8
45°	6509.9	6493.2	6459.7	6459.7	6444.9	6439.3	6441.2	6439.3	6441.2	6463.5	6470.9
47.5°	7020.5	6918.4	6860.8	6807.0	6762.4	6760.5	6740.1	6751.3	6766.1	6803.2	6836.7
50°	7876.5	7640.6	7495.8	7362.1	7265.6	7232.2	7193.2	7189.5	7202.4	7245.2	7302.7
52.5°	9402.7	9075.9	8767.7	8481.8	8233.0	8041.7	7947.0	7896.9	7878.3	7921.0	7976.7
55°	12195.3	11578.9	11144.4	10854.7	10236.4	9974.6	9638.5	9484.4	9334.0	9348.9	9443.6
57.5°	16967.3	16634.9	16271.0	15764.1	15385.3	14928.5	14089.2	13621.3	13641.8	13751.3	13409.7
60°	23220.9	22884.8	22734.4	22273.9	22010.3	21826.4	21380.8	20604.7	20329.9	20277.9	19650.3
62.5°	25595.7	25675.6	25794.4	25924.4	25916.9	25996.8	25606.9	25354.3	25036.8	24624.6	24004.5
65°	24975.5	25177.9	25419.3	25768.4	26165.7	26459.1	26706.1	26676.4	26379.3	25829.7	25174.2
67.5°	22875.5	23076.1	23252.5	23720.4	24372.1	24968.1	25495.4	25853.8	25655.1	25200.2	24435.2
70°	19719.0	19863.8	19975.2	20381.9	21096.7	21824.6	22513.5	23115.1	23053.8	22502.3	21891.4
72.5°	14287.9	14638.9	14828.2	14800.4	15242.3	16057.4	16154.0	16668.3	16811.3	16217.1	15244.2
75°	6961.1	6966.6	6747.5	6675.1	6697.4	6838.5	6569.3	6586.0	6493.2	6071.7	5724.5
77.5°	2432.4	2365.5	2205.9	2016.5	1745.4	1491.0	1232.9	1121.5	1084.4	974.8	898.7
80°	2096.3	2194.7	2163.1	2007.2	1721.2	1372.2	1024.9	759.4	648.0	609.0	571.9
82.5°	2380.4	2759.2	3000.6	2987.6	2595.8	1949.6	1216.2	698.1	497.6	436.3	401.1
85°	1327.6	1427.9	1455.7	1325.7	1101.1	752.0	419.6	295.2	250.7	228.4	206.1
87.5°	211.7	193.1	189.4	165.3	156.0	143.0	126.3	118.8	109.6	104.0	104.0
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: P159278

CATALOG NUMBER: VTS-E11-LED-E1-T2-8030

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2692.3	2690.5	2684.9	2679.3	2675.6	2673.8	2671.9	2668.2	2666.3	2664.5	2660.8
5°	2755.5	2751.7	2742.5	2733.2	2729.5	2723.9	2718.3	2714.6	2710.9	2709.0	2701.6
7.5°	2853.9	2850.2	2839.0	2831.6	2829.7	2814.9	2813.0	2807.5	2798.2	2796.3	2785.2
10°	2972.7	2970.8	2961.6	2956.0	2952.3	2944.9	2933.7	2924.4	2915.1	2915.1	2907.7
12.5°	3110.1	3102.7	3108.2	3095.3	3091.5	3084.1	3078.5	3076.7	3065.5	3056.3	3054.4
15°	3271.6	3262.4	3262.4	3258.6	3254.9	3247.5	3245.7	3247.5	3236.4	3240.1	3228.9
17.5°	3472.2	3475.9	3474.0	3474.0	3464.8	3464.8	3449.9	3468.5	3455.5	3464.8	3461.0
20°	3722.8	3724.7	3721.0	3726.6	3730.3	3728.4	3726.6	3724.7	3730.3	3737.7	3732.1
22.5°	3990.2	3990.2	3988.4	4008.8	3986.5	4003.2	4008.8	3997.6	4027.4	4023.6	4029.2
25°	4279.9	4279.9	4294.7	4311.4	4315.2	4302.2	4309.6	4300.3	4318.9	4333.7	4337.4
27.5°	4549.1	4573.2	4584.4	4573.2	4582.5	4603.0	4601.1	4601.1	4614.1	4610.4	4645.7
30°	4825.8	4840.6	4855.5	4848.1	4851.8	4877.8	4879.6	4881.5	4898.2	4922.3	4948.3
32.5°	5141.4	5156.3	5148.9	5173.0	5171.1	5202.7	5208.3	5213.8	5265.8	5256.5	5310.4
35°	5529.5	5544.3	5536.9	5562.9	5559.2	5570.3	5590.8	5613.0	5622.3	5676.2	5718.9
37.5°	5711.5	5711.5	5728.2	5757.9	5769.0	5787.6	5819.1	5847.0	5893.4	5951.0	6017.8
40°	5930.6	5936.1	5958.4	5990.0	6010.4	6053.1	6110.7	6149.7	6220.2	6283.3	6361.3
42.5°	6196.1	6220.2	6246.2	6288.9	6333.5	6400.3	6482.0	6532.2	6625.0	6706.7	6803.2
45°	6506.2	6530.3	6591.6	6669.6	6734.5	6808.8	6875.7	6994.5	7078.0	7163.5	7247.0
47.5°	6881.2	6951.8	7001.9	7094.8	7174.6	7273.0	7356.6	7468.0	7559.0	7662.9	7733.5
50°	7362.1	7449.4	7514.4	7635.1	7713.1	7822.6	7928.5	8012.0	8104.8	8207.0	8264.5
52.5°	8052.9	8142.0	8223.7	8374.1	8470.6	8544.9	8686.0	8790.0	8875.4	8949.7	9012.8
55°	9549.4	9523.4	9750.0	10041.5	10074.9	10344.1	10394.3	10481.5	10639.3	10661.6	10838.0
57.5°	13825.6	13691.9	14020.5	14447.6	14373.3	14237.8	14804.1	14839.4	14759.5	14973.1	14731.7
60°	19743.1	19509.2	19598.3	19715.3	19546.3	19466.5	19494.3	19574.2	19496.2	19410.8	19176.8
62.5°	23694.4	23334.2	23076.1	22858.8	22584.0	22385.3	22162.5	21887.7	21813.5	21501.5	21239.7
65°	24537.3	23976.6	23568.1	23157.8	22779.0	22428.0	22092.0	21856.2	21544.2	21174.7	20901.8
67.5°	23610.8	22916.4	22318.5	21722.5	21293.6	20777.4	20524.8	20140.5	19756.1	19332.8	19082.1
70°	20918.5	20194.3	19442.3	18859.3	18276.3	17637.6	17513.1	17058.2	16837.3	16259.8	16159.6
72.5°	14438.3	13955.6	13619.5	12899.1	12544.4	12217.6	12113.6	11692.1	11736.7	11103.5	11333.8
75°	5134.0	5065.3	4966.9	4560.3	4487.8	4361.6	4328.2	4298.4	4599.2	4181.5	4484.1
77.5°	882.0	876.4	826.3	802.1	848.5	818.8	826.3	811.4	898.7	911.7	891.3
80°	547.8	532.9	516.2	505.0	506.9	495.8	497.6	501.3	506.9	505.0	510.6
82.5°	375.1	362.1	354.6	347.2	358.4	362.1	371.4	380.6	395.5	404.8	415.9
85°	204.2	187.5	187.5	185.7	200.5	211.7	226.5	245.1	271.1	293.4	317.5
87.5°	104.0	100.3	102.1	105.8	118.8	128.1	146.7	163.4	185.7	209.8	232.1
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: P159278

CATALOG NUMBER: VTS-E11-LED-E1-T2-8030

**CANDELA DISTRIBUTION (continued):**

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2658.9	2658.9	2657.1	2657.1	2655.2	2653.3	2651.5	2645.9	2625.5	2606.9	2593.9
5°	2699.8	2694.2	2692.3	2686.8	2684.9	2681.2	2675.6	2670.0	2632.9	2599.5	2575.4
7.5°	2783.3	2775.9	2772.2	2766.6	2761.0	2753.6	2746.2	2740.6	2696.0	2657.1	2627.3
10°	2892.9	2889.1	2887.3	2879.9	2879.9	2868.7	2866.9	2853.9	2805.6	2770.3	2744.3
12.5°	3045.1	3037.7	3035.8	3026.6	3030.3	3026.6	3022.8	3015.4	2980.1	2939.3	2904.0
15°	3234.5	3234.5	3225.2	3217.8	3219.7	3215.9	3223.4	3214.1	3191.8	3154.7	3097.1
17.5°	3462.9	3459.2	3462.9	3457.3	3461.0	3464.8	3455.5	3457.3	3446.2	3399.8	3314.4
20°	3728.4	3722.8	3745.1	3735.8	3756.3	3737.7	3741.4	3747.0	3747.0	3685.7	3570.6
22.5°	4032.9	4029.2	4029.2	4047.8	4055.2	4057.1	4064.5	4070.1	4084.9	4006.9	3823.1
25°	4337.4	4350.4	4352.3	4376.4	4387.6	4387.6	4393.1	4413.6	4458.1	4350.4	4112.8
27.5°	4647.5	4679.1	4686.5	4703.2	4719.9	4736.6	4749.6	4764.5	4836.9	4719.9	4409.9
30°	4957.6	4992.9	5018.9	5037.4	5057.9	5098.7	5106.1	5135.9	5256.5	5113.6	4692.1
32.5°	5321.5	5371.7	5405.1	5429.2	5460.8	5499.8	5522.1	5559.2	5676.2	5442.2	4898.2
35°	5756.0	5785.7	5834.0	5874.9	5893.4	5960.3	5995.5	6004.8	6094.0	5726.3	5050.4
37.5°	6056.8	6106.9	6190.5	6248.1	6281.5	6318.6	6378.0	6417.0	6502.4	5984.4	5126.6
40°	6439.3	6515.4	6582.3	6667.7	6721.5	6749.4	6808.8	6840.4	6851.5	6205.4	5102.4
42.5°	6905.4	6974.1	7063.2	7131.9	7172.7	7204.3	7252.6	7265.6	7120.8	6309.3	4972.5
45°	7343.6	7449.4	7525.5	7575.7	7605.4	7622.1	7651.8	7653.6	7343.6	6257.3	4749.6
47.5°	7815.2	7891.3	7961.9	7997.2	7993.4	7997.2	7986.0	7978.6	7455.0	6077.2	4463.7
50°	8336.9	8387.1	8416.8	8433.5	8442.8	8407.5	8357.4	8323.9	7464.3	5821.0	4174.0
52.5°	9036.9	9100.1	9094.5	9092.7	9018.4	8985.0	8851.3	8782.6	7410.4	5520.2	3847.2
55°	10810.2	10748.9	10628.2	10687.6	10385.0	10227.1	10019.2	9826.1	7481.0	5234.3	3468.5
57.5°	14828.2	14852.4	14508.9	14325.1	13814.4	13175.7	12661.4	12161.9	8116.0	5059.7	2974.6
60°	19020.9	18705.2	18268.9	17604.1	16946.8	15998.0	15082.6	14217.4	8749.1	4877.8	2389.7
62.5°	20851.6	20402.3	19743.1	18883.5	17851.1	16690.6	15550.5	14495.9	8442.8	4289.2	1737.9
65°	20480.3	19793.3	19065.4	18059.0	16803.9	15532.0	14200.7	13123.7	7063.2	3199.2	1071.4
67.5°	18538.1	17955.1	17186.4	15992.4	14650.0	13326.1	12106.2	10899.3	5247.3	1994.2	599.7
70°	15647.1	15077.1	14297.2	13075.4	11734.8	10468.5	9176.2	8192.1	3344.1	961.8	432.6
72.5°	10854.7	10392.4	9840.9	8970.1	7794.8	6643.6	5769.0	5013.3	1853.1	510.6	395.5
75°	4408.0	4409.9	4309.6	3941.9	3331.1	2872.4	2449.1	2077.7	774.3	434.5	389.9
77.5°	998.9	1015.7	1110.4	1052.8	948.8	887.5	794.7	701.9	471.6	447.5	393.6
80°	505.0	506.9	501.3	503.2	497.6	499.5	492.0	486.5	441.9	460.5	393.6
82.5°	421.5	430.8	428.9	428.9	430.8	430.8	430.8	428.9	458.6	484.6	380.6
85°	334.2	352.8	367.6	382.5	399.2	410.3	415.9	421.5	445.6	477.2	345.4
87.5°	252.5	274.8	293.4	308.2	334.2	334.2	352.8	365.8	365.8	373.2	182.0
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: P159278

CATALOG NUMBER: VTS-E11-LED-E1-T2-8030

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2575.4	2567.9	2560.5	2556.8	2549.4
5°	2556.8	2541.9	2532.6	2532.6	2525.2
7.5°	2610.6	2605.1	2592.1	2584.6	2592.1
10°	2725.8	2716.5	2701.6	2690.5	2696.0
12.5°	2879.9	2842.7	2813.0	2800.0	2790.7
15°	3039.5	2965.3	2905.9	2872.4	2863.2
17.5°	3210.4	3080.4	2991.3	2941.1	2931.9
20°	3384.9	3223.4	3097.1	3032.1	3030.3
22.5°	3594.7	3379.3	3217.8	3132.4	3126.8
25°	3815.7	3518.6	3305.1	3195.5	3184.4
27.5°	4006.9	3630.0	3358.9	3228.9	3217.8
30°	4166.6	3713.6	3403.5	3253.1	3238.2
32.5°	4281.7	3761.8	3422.0	3260.5	3243.8
35°	4318.9	3743.3	3370.1	3193.7	3175.1
37.5°	4268.7	3622.6	3225.2	3030.3	3008.0
40°	4118.3	3410.9	2989.4	2788.9	2761.0
42.5°	3888.1	3151.0	2705.3	2514.1	2478.8
45°	3604.0	2857.6	2423.1	2209.6	2192.9
47.5°	3306.9	2549.4	2105.6	1912.5	1892.1
50°	2985.7	2192.9	1795.5	1585.7	1585.7
52.5°	2603.2	1845.6	1435.3	1277.5	1264.5
55°	2163.1	1453.9	1143.8	1023.1	1006.4
57.5°	1689.7	1117.8	913.5	843.0	824.4
60°	1242.2	839.3	735.3	696.3	688.9
62.5°	843.0	638.7	592.3	575.6	573.7
65°	570.0	497.6	484.6	479.0	480.9
67.5°	438.2	414.1	408.5	406.6	406.6
70°	380.6	365.8	360.2	362.1	360.2
72.5°	358.4	337.9	339.8	343.5	341.6
75°	350.9	324.9	332.4	334.2	326.8
77.5°	345.4	310.1	328.7	334.2	313.8
80°	334.2	297.1	341.6	343.5	308.2
82.5°	306.4	263.7	341.6	315.7	278.5
85°	259.9	200.5	386.2	274.8	206.1
87.5°	165.3	118.8	261.8	187.5	124.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)