

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: P157976

Luminaire Tested: **VTS-F12-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157976
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: MCGRAW-EDISON
Catalog Number: VTS-F12-LED-E1-RW-7050
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

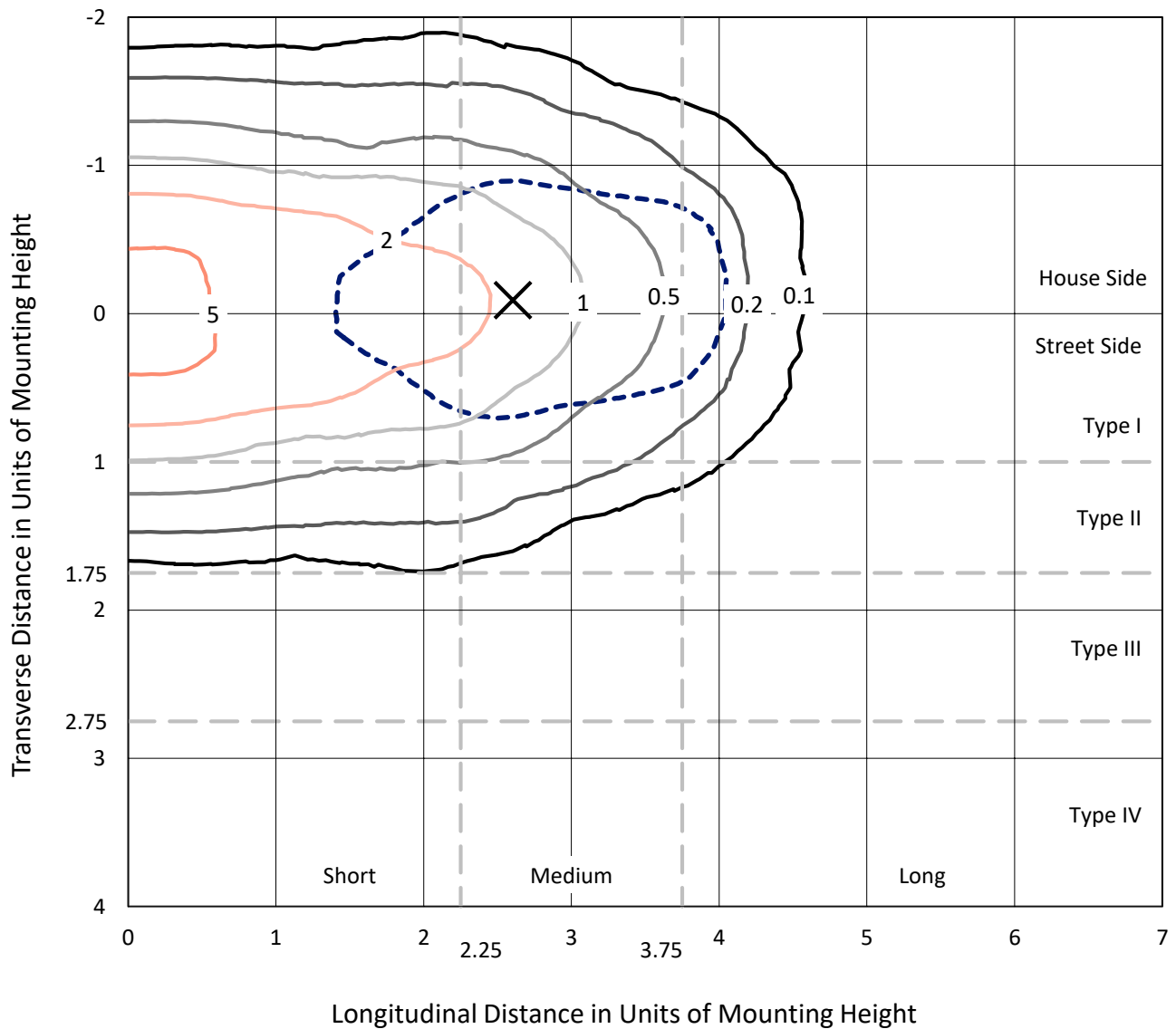
Lumens per Lamp: N/A
Luminaire Lumens: 31667.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

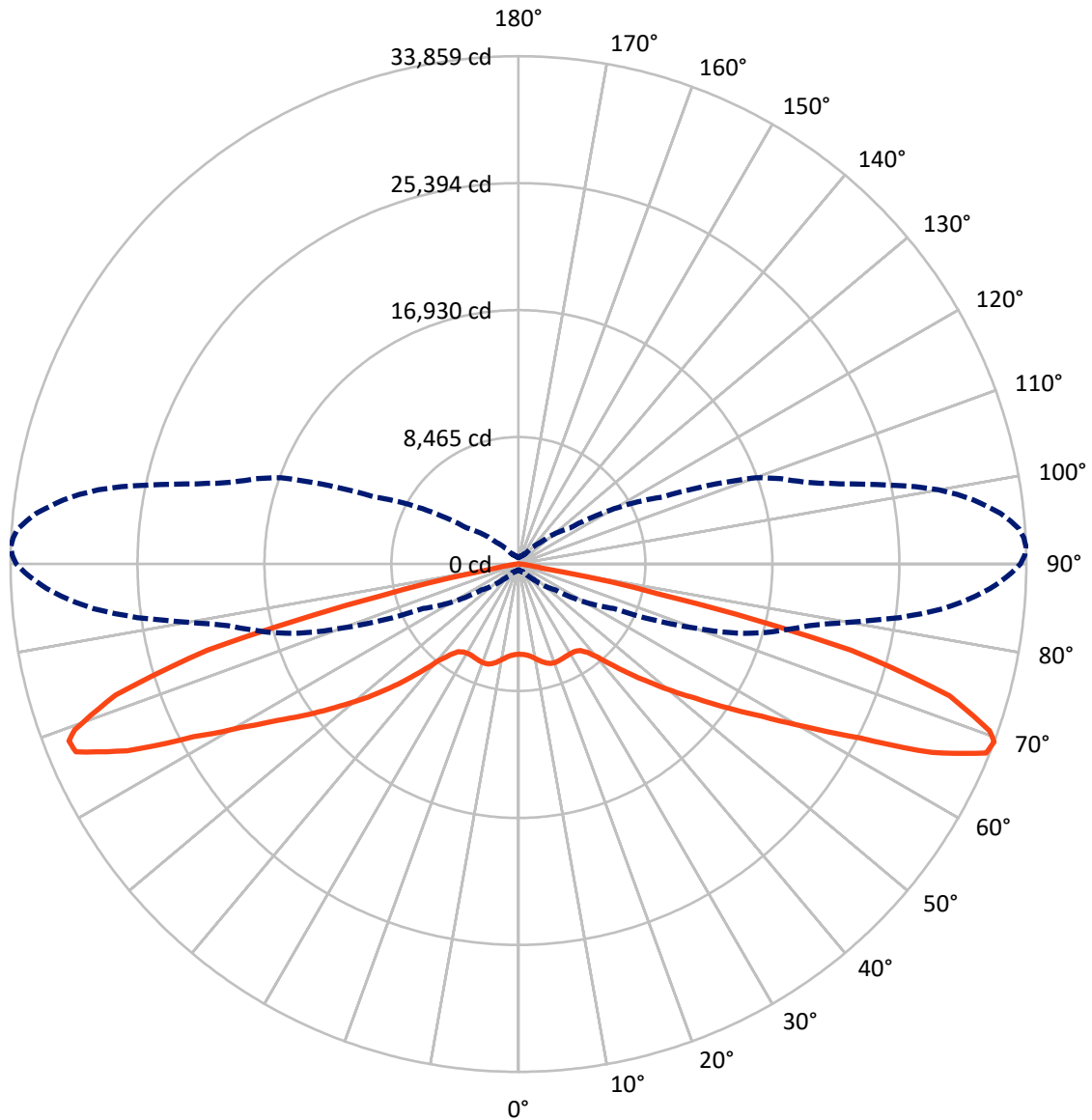
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Short - 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	16795.1	0.0	16795.1
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	14872.8	0.0	14872.8
	% Fixture	47.0	0.0	47.0
Total	Lumens	31667.9	0.0	31667.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.6	1.9
10°-20°	1859.5	5.9
20°-30°	3016.8	9.5
30°-40°	3759.8	11.9
40°-50°	4681.3	14.8
50°-60°	5773.3	18.2
60°-70°	7170.0	22.6
70°-80°	4405.6	13.9
80°-90°	412.9	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°	31667.9	100.0
0°-180°	31667.9	100.0



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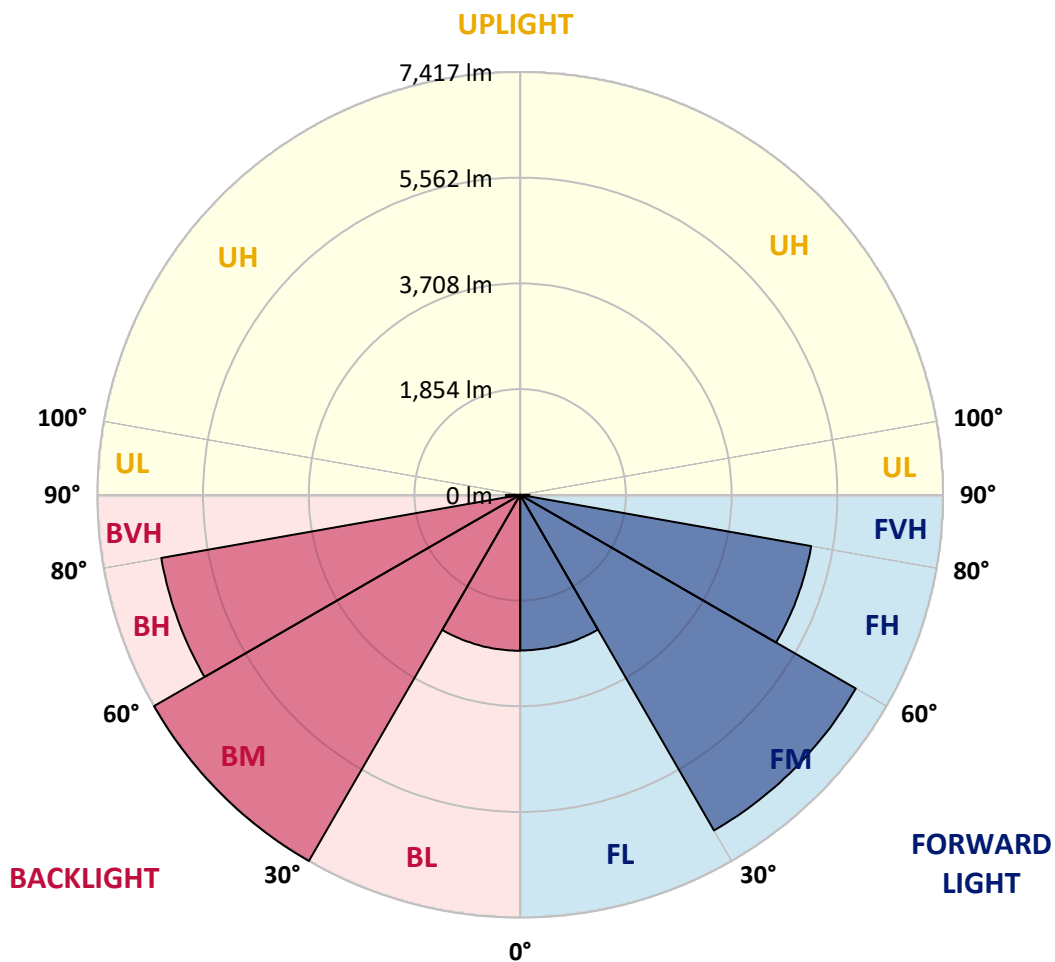
CATALOG NUMBER: VTS-F12-LED-E1-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2729.6	8.6			
FM (30°-60°)	6797.9	21.5			
FH (60°-80°)	5183.6	16.4			G3/7500
FVH (80°-90°)	161.7	0.5			G2/225
BL (0°-30°)	2735.4	8.6	B4/5000		
BM (30°-60°)	7416.6	23.4	B4/8500		
BH (60°-80°)	6392.0	20.2	B5		G5
BVH (80°-90°)	251.2	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6
2.5°	6111.1	6094.9	6109.1	6111.1	6109.1	6109.1	6090.8	6086.7	6062.4	6068.4	6066.4
5°	6194.5	6188.4	6198.6	6202.6	6206.7	6198.6	6184.3	6178.2	6162.0	6155.9	6153.8
7.5°	6271.7	6261.6	6277.8	6292.1	6302.2	6304.3	6306.3	6296.1	6296.1	6288.0	6288.0
10°	6336.8	6328.7	6355.1	6373.4	6405.9	6424.2	6444.6	6458.8	6466.9	6468.9	6466.9
12.5°	6365.3	6359.2	6401.9	6456.7	6517.7	6560.4	6611.3	6647.8	6658.0	6656.0	6666.1
15°	6316.5	6320.5	6385.6	6493.3	6623.5	6731.2	6802.4	6832.9	6841.0	6845.0	6847.1
17.5°	6184.3	6192.5	6286.0	6460.8	6688.5	6883.7	6989.4	6989.4	6973.1	6973.1	6971.1
20°	5972.9	5981.0	6103.0	6355.1	6690.5	6989.4	7139.8	7109.3	7048.3	7036.1	7024.0
22.5°	5680.2	5712.7	5846.9	6139.6	6603.1	7019.9	7233.3	7188.6	7093.1	7066.6	7048.3
25°	5348.8	5344.7	5505.3	5834.7	6391.7	6946.7	7259.8	7251.6	7150.0	7121.5	7089.0
27.5°	4970.6	4982.8	5131.2	5464.7	6068.4	6735.3	7215.1	7322.8	7239.4	7211.0	7180.5
30°	4582.3	4594.5	4734.8	5123.1	5700.5	6432.4	7123.6	7391.9	7359.4	7337.0	7316.7
32.5°	4192.0	4196.1	4362.8	4779.5	5389.4	6070.5	6985.3	7454.9	7499.7	7489.5	7481.4
35°	3826.1	3830.1	4011.1	4433.9	5082.5	5761.5	6818.6	7546.4	7690.8	7703.0	7711.1
37.5°	3470.3	3476.4	3661.4	4104.6	4779.5	5527.7	6633.6	7686.7	7959.1	8003.8	8012.0
40°	3116.6	3122.7	3299.5	3769.1	4472.6	5322.3	6491.3	7883.9	8321.0	8382.0	8445.0
42.5°	2779.1	2801.4	2951.9	3401.2	4131.0	5068.2	6430.3	8123.8	8750.0	8845.5	8916.7
45°	2464.0	2466.0	2636.8	3057.6	3726.5	4724.6	6389.7	8396.2	9229.7	9374.1	9471.7
47.5°	2126.5	2150.9	2329.8	2738.4	3348.3	4299.8	6259.5	8715.4	9752.2	9920.9	10118.1
50°	1799.2	1833.7	2006.6	2411.1	3002.7	3860.6	5909.9	9089.5	10339.7	10559.3	10787.0
52.5°	1484.1	1482.0	1665.0	2085.8	2655.1	3488.6	5342.7	9481.8	11018.8	11254.6	11500.6
55°	1122.2	1122.2	1303.1	1687.4	2279.0	3157.2	4734.8	9725.8	11649.0	11933.6	12202.0
57.5°	770.5	790.8	961.6	1293.0	1886.6	2854.3	4269.3	9585.5	12130.8	12484.5	12803.7
60°	571.3	591.6	717.6	929.1	1475.9	2496.5	3919.6	8924.8	12421.5	12891.1	13305.9
62.5°	494.0	508.2	628.2	744.1	1063.2	2116.3	3610.6	8085.2	12840.3	13482.7	14060.1
65°	441.2	455.4	575.3	642.4	831.5	1701.6	3437.8	7605.4	13340.4	14322.4	15159.9
67.5°	408.6	424.9	526.5	575.3	725.8	1539.0	3303.6	7493.6	13336.4	14527.7	15597.0
69°	392.4	404.6	487.9	540.8	701.4	1490.2	3012.9	7007.7	12456.1	13734.8	14808.2
70°	382.2	394.4	465.6	518.4	693.2	1402.8	2744.5	6365.3	11453.8	12740.7	13830.4
72.5°	349.7	361.9	414.7	463.5	577.4	937.2	1913.0	4074.1	8184.8	9103.7	10349.9
75°	309.0	323.2	363.9	404.6	437.1	542.8	1103.9	2114.3	4679.9	5377.2	6487.2
77.5°	252.1	266.3	309.0	374.1	370.0	412.7	717.6	1299.1	2191.6	2718.1	3128.8
80°	207.4	217.5	254.1	378.1	302.9	345.6	581.4	1065.3	1543.0	1705.7	1803.3
82.5°	138.2	152.5	197.2	296.8	231.8	246.0	435.1	996.2	1305.2	1431.2	1549.1
85°	65.1	71.2	119.9	158.6	140.3	132.1	248.0	703.4	971.8	1030.7	1075.4
87.5°	0.0	0.0	6.1	12.2	18.3	18.3	44.7	148.4	272.4	329.3	325.3
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6
2.5°	6058.3	6060.3	6058.3	6058.3	6056.3	6052.2	6052.2	6048.1	6050.2	6048.1	6052.2
5°	6151.8	6151.8	6145.7	6141.6	6147.7	6141.6	6143.7	6133.5	6133.5	6127.4	6119.3
7.5°	6286.0	6286.0	6288.0	6275.8	6283.9	6286.0	6279.9	6275.8	6271.7	6261.6	6263.6
10°	6464.9	6464.9	6471.0	6454.7	6462.8	6466.9	6468.9	6468.9	6464.9	6446.6	6448.6
12.5°	6664.1	6660.0	6662.1	6653.9	6662.1	6666.1	6670.2	6666.1	6666.1	6662.1	6660.0
15°	6845.0	6843.0	6847.1	6841.0	6843.0	6847.1	6859.3	6857.2	6855.2	6843.0	6843.0
17.5°	6969.1	6963.0	6958.9	6956.9	6956.9	6954.8	6956.9	6956.9	6950.8	6948.7	6948.7
20°	7015.8	6999.6	6989.4	6983.3	6975.2	6971.1	6967.0	6969.1	6965.0	6958.9	6960.9
22.5°	7024.0	7001.6	6981.3	6963.0	6946.7	6936.5	6926.4	6922.3	6912.1	6906.0	6906.0
25°	7062.6	7028.0	6995.5	6965.0	6940.6	6918.2	6895.9	6879.6	6867.4	6853.2	6849.1
27.5°	7148.0	7111.4	7072.7	7034.1	7001.6	6956.9	6926.4	6893.8	6865.4	6843.0	6826.8
30°	7280.1	7243.5	7204.9	7160.2	7117.5	7070.7	7019.9	6981.3	6940.6	6895.9	6871.5
32.5°	7454.9	7430.5	7391.9	7349.2	7310.6	7261.8	7200.8	7141.9	7103.2	7050.4	7011.8
35°	7705.0	7676.5	7664.3	7646.0	7607.4	7576.9	7509.8	7454.9	7418.3	7345.2	7316.7
37.5°	8046.5	8044.5	8054.7	8048.6	8054.7	8016.0	7985.6	7983.5	7930.7	7859.5	7790.4
40°	8512.1	8536.5	8591.4	8630.0	8666.6	8670.7	8713.4	8668.6	8674.7	8664.6	8593.4
42.5°	9042.7	9126.1	9191.1	9305.0	9392.4	9473.7	9528.6	9603.8	9660.7	9711.6	9723.8
45°	9634.3	9758.3	9908.8	10010.4	10181.2	10317.4	10504.4	10648.8	10799.2	10947.6	11000.5
47.5°	10276.7	10431.2	10597.9	10787.0	11002.5	11216.0	11504.6	11726.2	11968.2	12169.4	12348.3
50°	10986.2	11146.8	11370.5	11588.0	11884.8	12130.8	12508.9	12799.7	13190.0	13458.3	13690.1
52.5°	11726.2	11927.5	12177.6	12417.5	12720.4	13035.5	13456.3	13885.3	14354.9	14761.5	15099.0
55°	12450.0	12698.0	12937.9	13218.4	13553.9	13919.8	14395.5	14960.7	15546.2	16011.8	16459.0
57.5°	13094.4	13381.1	13663.7	13948.3	14291.9	14716.8	15251.4	15861.3	16532.2	17152.3	17766.2
60°	13692.1	14035.7	14381.3	14737.1	15131.5	15656.0	16298.4	17048.6	17916.7	18764.4	19567.4
62.5°	14637.5	15088.8	15517.7	15977.2	16452.9	17068.9	17827.2	18811.2	19807.3	20866.5	21689.9
65°	15918.2	16552.5	17113.6	17709.3	18325.3	19148.7	20055.4	21232.5	22659.6	23745.2	25066.7
67.5°	16554.6	17390.1	18111.8	18774.6	19537.0	20368.4	21445.9	22838.5	24361.2	25934.7	27408.7
69°	15806.4	16668.4	17467.4	18209.4	18979.9	19787.0	20913.3	22342.5	23952.6	25654.2	27093.5
70°	14836.7	15698.7	16550.5	17396.2	18099.6	18886.4	20016.7	21490.6	23098.7	24867.4	26294.6
72.5°	11366.4	12403.2	13173.7	13966.6	14781.8	15448.6	16753.8	17996.0	19671.1	21466.3	23037.7
75°	7272.0	8225.4	9067.1	9742.0	10539.0	11337.9	12301.6	13682.0	14731.0	16204.9	17479.6
77.5°	3736.6	4019.2	4830.4	5072.3	5625.3	6060.3	6590.9	6936.5	7790.4	7971.3	8723.5
80°	1770.7	1595.9	1502.4	1417.0	1441.4	1431.2	1388.5	1331.6	1402.8	1372.3	1360.1
82.5°	1543.0	1376.3	1097.8	933.1	807.1	685.1	589.6	540.8	546.9	563.1	569.2
85°	1081.5	1016.5	792.9	601.8	469.6	363.9	292.7	280.6	288.7	311.0	302.9
87.5°	313.1	327.3	288.7	201.3	140.3	101.6	79.3	89.5	85.4	83.4	87.4
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°	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6
2.5°	6052.2	6050.2	6044.1	6038.0	6038.0	6033.9	6038.0	6040.0	6038.0	6038.0	6033.9
5°	6121.3	6123.3	6129.4	6117.2	6115.2	6117.2	6109.1	6107.1	6101.0	6107.1	6098.9
7.5°	6253.5	6259.5	6259.5	6251.4	6249.4	6255.5	6243.3	6239.2	6233.1	6231.1	6229.1
10°	6450.7	6456.7	6446.6	6440.5	6434.4	6442.5	6432.4	6432.4	6426.3	6420.2	6418.1
12.5°	6670.2	6666.1	6662.1	6666.1	6660.0	6660.0	6653.9	6649.9	6647.8	6645.8	6641.8
15°	6841.0	6855.2	6855.2	6859.3	6855.2	6855.2	6847.1	6849.1	6845.0	6843.0	6845.0
17.5°	6950.8	6954.8	6965.0	6971.1	6971.1	6973.1	6969.1	6973.1	6969.1	6969.1	6977.2
20°	6965.0	6969.1	6979.2	6989.4	6995.5	6999.6	6999.6	7005.7	7009.7	7013.8	7024.0
22.5°	6908.1	6914.2	6926.4	6944.7	6954.8	6958.9	6967.0	6977.2	6987.4	6995.5	7009.7
25°	6849.1	6851.1	6863.3	6881.6	6893.8	6904.0	6918.2	6930.4	6944.7	6960.9	6977.2
27.5°	6816.6	6814.6	6824.7	6843.0	6853.2	6867.4	6879.6	6897.9	6914.2	6934.5	6948.7
30°	6845.0	6828.8	6830.8	6838.9	6847.1	6857.2	6871.5	6887.7	6906.0	6924.3	6940.6
32.5°	6971.1	6934.5	6910.1	6904.0	6906.0	6908.1	6916.2	6926.4	6940.6	6954.8	6960.9
35°	7243.5	7180.5	7148.0	7121.5	7099.2	7080.9	7084.9	7082.9	7082.9	7095.1	7080.9
37.5°	7761.9	7682.6	7648.1	7601.3	7574.9	7507.8	7489.5	7485.4	7459.0	7459.0	7428.5
40°	8575.1	8528.4	8501.9	8459.2	8331.2	8347.4	8255.9	8258.0	8182.8	8190.9	8138.0
42.5°	9731.9	9738.0	9705.5	9677.0	9577.4	9532.7	9447.3	9325.3	9229.7	9227.7	9122.0
45°	11069.6	11142.8	11039.1	11075.7	10988.3	10868.3	10768.7	10612.2	10463.8	10417.0	10309.2
47.5°	12468.3	12588.2	12508.9	12523.2	12480.5	12309.7	12175.5	11982.4	11789.3	11659.1	11594.1
50°	13962.5	14041.8	14039.8	14001.1	13980.8	13814.1	13598.6	13452.2	13309.9	13135.1	13078.2
52.5°	15316.5	15501.5	15625.5	15597.0	15538.1	15438.5	15247.4	15121.3	14911.9	14887.5	14911.9
55°	16766.0	17005.9	17131.9	17284.4	17286.4	17268.1	17188.9	17142.1	16946.9	16969.3	16940.8
57.5°	18138.3	18490.0	18683.1	19008.4	19120.2	19268.6	19213.7	19274.7	19156.8	19234.0	19211.7
60°	19998.4	20486.4	20807.6	21252.8	21460.2	21832.2	21905.4	21950.1	22015.2	22173.7	22084.3
62.5°	22338.4	23054.0	23720.8	24326.7	24525.9	25085.0	25176.4	25526.1	25544.4	25652.2	25455.0
65°	26168.5	27040.7	27774.6	28500.4	28919.2	29573.8	29838.1	30517.1	30309.7	30397.1	29976.3
67.5°	28677.2	29691.7	30675.7	31362.8	32058.1	32726.9	33208.8	33647.9	33643.8	33558.4	33184.4
69°	28455.6	29586.0	30555.7	31476.7	32208.5	32895.7	33475.1	33759.7	33859.3	33735.3	33469.0
70°	27689.2	28850.0	30037.3	30795.6	31592.5	32346.8	32944.5	33255.5	33324.6	33237.2	33007.5
72.5°	24147.8	25261.8	26571.1	27260.2	28223.9	28768.7	29592.1	29994.6	30065.8	29953.9	29803.5
75°	18845.7	19047.0	20380.6	20819.8	21519.1	22147.3	22659.6	22529.5	22893.4	22822.3	22765.3
77.5°	8878.0	8341.3	9205.3	9607.9	9396.4	8833.3	9652.6	9061.0	9453.4	9963.6	9833.5
80°	1463.7	1459.7	1498.3	1583.7	1482.0	1573.5	1571.5	1526.8	1530.8	1640.6	1583.7
82.5°	563.1	575.3	581.4	597.7	597.7	599.7	609.9	622.1	611.9	632.3	628.2
85°	304.9	325.3	307.0	292.7	302.9	309.0	317.1	327.3	317.1	347.6	331.4
87.5°	79.3	83.4	73.2	73.2	71.2	65.1	65.1	69.1	75.2	89.5	97.6
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6
2.5°	6025.8	6027.8	6029.8	6023.7	6019.7	6019.7	6017.6	6013.6	6011.5	6011.5	6011.5
5°	6094.9	6098.9	6088.8	6086.7	6082.7	6078.6	6078.6	6074.5	6076.6	6076.6	6066.4
7.5°	6233.1	6227.0	6214.8	6206.7	6214.8	6200.6	6194.5	6198.6	6194.5	6196.5	6192.5
10°	6418.1	6418.1	6403.9	6412.0	6401.9	6385.6	6391.7	6385.6	6381.5	6367.3	6375.4
12.5°	6647.8	6641.8	6633.6	6615.3	6609.2	6607.2	6588.9	6590.9	6584.8	6580.8	6574.7
15°	6849.1	6847.1	6828.8	6818.6	6816.6	6808.5	6800.3	6796.3	6786.1	6784.1	6780.0
17.5°	6983.3	6977.2	6969.1	6958.9	6958.9	6946.7	6942.6	6932.5	6930.4	6924.3	6918.2
20°	7028.0	7030.0	7021.9	7013.8	7009.7	7001.6	6995.5	6987.4	6983.3	6975.2	6969.1
22.5°	7017.9	7017.9	7009.7	7007.7	6999.6	6987.4	6979.2	6969.1	6958.9	6948.7	6936.5
25°	6985.3	6983.3	6977.2	6967.0	6956.9	6938.6	6922.3	6906.0	6891.8	6879.6	6861.3
27.5°	6956.9	6952.8	6940.6	6926.4	6906.0	6885.7	6855.2	6832.9	6814.6	6798.3	6778.0
30°	6946.7	6932.5	6914.2	6891.8	6867.4	6836.9	6804.4	6775.9	6755.6	6739.3	6731.2
32.5°	6958.9	6940.6	6912.1	6883.7	6853.2	6816.6	6784.1	6759.7	6741.4	6737.3	6737.3
35°	7070.7	7040.2	7001.6	6960.9	6922.3	6891.8	6869.4	6867.4	6855.2	6869.4	6891.8
37.5°	7398.0	7371.6	7312.6	7259.8	7233.3	7219.1	7198.8	7202.9	7174.4	7219.1	7255.7
40°	8093.3	8060.8	7991.7	7949.0	7896.1	7845.3	7885.9	7873.7	7894.1	7885.9	7924.6
42.5°	9107.8	9075.2	8965.4	8949.2	8926.8	8906.5	8906.5	8890.2	8882.1	8910.6	8878.0
45°	10341.8	10276.7	10236.1	10284.9	10217.8	10238.1	10309.2	10213.7	10236.1	10103.9	9981.9
47.5°	11622.6	11616.5	11606.3	11665.2	11675.4	11705.9	11744.5	11647.0	11470.1	11370.5	11122.4
50°	13096.5	13159.5	13183.9	13240.8	13265.2	13287.6	13226.6	13082.2	12783.4	12519.1	12226.4
52.5°	14887.5	14777.7	14928.2	14983.1	14958.7	14869.2	14649.7	14472.8	14060.1	13679.9	13226.6
55°	16973.4	16999.8	16894.1	16851.4	16768.0	16520.0	16217.1	15818.6	15296.2	14800.1	14226.8
57.5°	19097.8	19087.7	18923.0	18691.2	18408.6	18109.8	17658.5	17087.2	16477.3	15810.5	15117.3
60°	21681.7	21671.6	21338.2	20941.7	20539.2	20057.4	19349.9	18662.8	17845.5	16969.3	16143.9
62.5°	25076.8	24639.7	24312.4	23720.8	23098.7	22468.5	21511.0	20598.2	19506.5	18400.5	17436.9
65°	29427.4	28707.7	28335.7	27477.8	26514.1	25530.2	24556.4	23356.9	21887.1	20549.4	19372.3
67.5°	32645.6	31986.9	31305.9	30450.0	29392.8	28295.0	26961.4	25450.9	23781.8	22281.5	20998.7
69°	32928.2	32312.2	31494.9	30637.0	29636.8	28443.4	26987.8	25296.4	23604.9	22086.3	20823.8
70°	32499.2	31844.6	30984.7	30092.2	28974.1	27847.8	26323.0	24560.4	22867.0	21344.3	20112.3
72.5°	29299.3	28661.0	27746.1	26678.8	25532.2	24568.6	23121.1	21283.3	19441.4	18034.6	17075.0
75°	22279.4	22139.2	21490.6	20868.6	19965.9	18890.5	17567.0	16330.9	14820.4	13332.3	12437.8
77.5°	9506.2	9829.5	10166.9	10215.7	10248.3	9916.9	9711.6	9400.5	8390.1	7930.7	7457.0
80°	1756.5	1569.5	1675.2	1687.4	1756.5	1793.1	1927.3	2285.1	2325.7	2413.1	2520.9
82.5°	624.1	634.3	650.6	656.7	662.8	687.1	778.6	933.1	1073.4	1256.4	1500.3
85°	353.7	359.8	374.1	386.3	394.4	418.8	469.6	561.1	699.3	908.7	1232.0
87.5°	107.7	122.0	130.1	146.4	152.5	156.5	178.9	239.9	309.0	457.4	666.8
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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CATALOG NUMBER: VTS-F12-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6	6015.6
2.5°	6011.5	6009.5	6005.4	6001.4	6003.4	5999.3	5987.1	5983.1	5968.8	5958.7	5950.5
5°	6066.4	6064.4	6056.3	6058.3	6056.3	6035.9	6021.7	5997.3	5983.1	5960.7	5952.6
7.5°	6180.3	6178.2	6164.0	6170.1	6166.0	6135.5	6111.1	6072.5	6052.2	6023.7	6001.4
10°	6351.0	6351.0	6334.8	6336.8	6336.8	6296.1	6253.5	6188.4	6141.6	6096.9	6058.3
12.5°	6558.4	6550.3	6548.2	6538.1	6529.9	6485.2	6420.2	6332.7	6245.3	6172.1	6119.3
15°	6767.8	6755.6	6749.5	6737.3	6727.1	6686.5	6599.1	6491.3	6373.4	6255.5	6168.1
17.5°	6904.0	6895.9	6883.7	6879.6	6865.4	6824.7	6763.7	6656.0	6509.6	6344.9	6212.8
20°	6954.8	6940.6	6932.5	6924.3	6916.2	6887.7	6887.7	6818.6	6656.0	6424.2	6223.0
22.5°	6922.3	6914.2	6902.0	6895.9	6887.7	6891.8	6971.1	6960.9	6773.9	6442.5	6149.8
25°	6847.1	6836.9	6826.8	6826.8	6824.7	6867.4	7058.5	7084.9	6808.5	6353.1	5989.2
27.5°	6769.8	6755.6	6759.7	6761.7	6771.9	6863.3	7154.1	7117.5	6714.9	6137.6	5712.7
30°	6723.1	6723.1	6733.2	6749.5	6769.8	6930.4	7229.3	7044.3	6473.0	5812.3	5346.7
32.5°	6743.4	6763.7	6786.1	6826.8	6857.2	7078.8	7255.7	6855.2	6121.3	5409.8	4964.5
35°	6924.3	6948.7	6991.4	7054.4	7091.0	7292.3	7255.7	6578.7	5712.7	5064.2	4570.1
37.5°	7318.7	7343.1	7394.0	7442.7	7479.3	7560.7	7225.2	6227.0	5371.1	4706.4	4216.4
40°	7953.0	7987.6	8024.2	8016.0	7991.7	7912.4	7164.2	5899.7	5056.0	4393.3	3868.8
42.5°	8845.5	8813.0	8808.9	8729.6	8648.3	8308.8	7119.5	5686.2	4785.6	4063.9	3523.2
45°	9876.2	9744.1	9607.9	9502.2	9378.1	8743.9	7107.3	5513.4	4486.8	3698.0	3147.1
47.5°	10913.0	10701.6	10437.3	10272.7	10071.4	9207.4	7143.9	5281.7	4102.6	3299.5	2795.3
50°	11929.5	11583.9	11256.6	11059.4	10831.7	9740.0	7202.9	4891.4	3643.1	2937.7	2474.1
52.5°	12870.8	12425.6	12090.1	11858.4	11579.9	10360.1	7150.0	4379.0	3244.6	2590.0	2169.2
55°	13765.3	13273.3	12925.7	12681.7	12354.4	10982.2	6767.8	3913.5	2864.5	2250.5	1825.6
57.5°	14548.0	14076.4	13714.5	13383.1	13106.6	11522.9	6013.6	3529.3	2498.5	1862.2	1453.6
60°	15462.9	14932.2	14503.3	14149.6	13824.3	11801.5	5167.8	3187.7	2108.2	1441.4	1051.1
62.5°	16696.9	16087.0	15590.9	15186.4	14761.5	11862.4	4590.5	2846.2	1673.1	1042.9	764.4
65°	18526.6	17774.4	17154.3	16597.3	16021.9	11610.4	4305.9	2474.1	1244.2	774.6	640.4
67.5°	19980.1	19199.5	18481.8	17766.2	17030.3	11142.8	4242.8	2130.6	955.5	658.7	575.3
69°	19803.3	19059.2	18400.5	17625.9	16810.7	10555.2	4179.8	1998.4	872.1	611.9	544.8
70°	19122.2	18416.8	17747.9	17117.7	16119.5	9900.6	4013.1	1925.2	839.6	589.6	522.5
72.5°	16158.1	15340.9	14692.4	13907.6	12856.6	7357.4	3043.4	1557.3	770.5	538.7	471.7
75°	11785.2	11108.2	10461.7	9593.6	8571.0	4257.1	1894.7	890.4	565.2	487.9	426.9
77.5°	6881.6	6729.2	6105.0	5533.8	4521.4	2167.2	1087.6	532.6	439.1	443.2	376.1
80°	2590.0	2758.8	2821.8	2624.6	2425.3	1496.3	790.8	433.0	382.2	437.1	319.2
82.5°	1888.6	2191.6	2228.1	2134.6	1986.2	1394.6	632.3	347.6	311.0	469.6	274.5
85°	1575.6	1744.3	1770.7	1673.1	1624.4	1181.2	441.2	244.0	227.7	337.5	205.3
87.5°	796.9	839.6	862.0	780.7	784.7	550.9	176.9	103.7	124.0	144.3	113.8
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):

	175°	180°
0°	6015.6	6015.6
2.5°	5932.2	5944.4
5°	5940.4	5940.4
7.5°	5987.1	5987.1
10°	6038.0	6040.0
12.5°	6084.7	6082.7
15°	6121.3	6115.2
17.5°	6143.7	6137.6
20°	6121.3	6111.1
22.5°	6007.5	5979.0
25°	5800.1	5763.5
27.5°	5525.6	5501.2
30°	5167.8	5131.2
32.5°	4749.0	4730.7
35°	4348.5	4326.2
37.5°	3982.6	3976.5
40°	3673.6	3641.1
42.5°	3311.7	3297.5
45°	2943.8	2935.6
47.5°	2598.2	2590.0
50°	2279.0	2262.7
52.5°	1965.9	1939.5
55°	1618.3	1600.0
57.5°	1242.2	1225.9
60°	874.2	855.9
62.5°	622.1	601.8
65°	518.4	502.1
67.5°	469.6	451.3
69°	447.3	431.0
70°	433.0	420.8
72.5°	402.5	394.4
75°	368.0	361.9
77.5°	323.2	313.1
80°	270.4	260.2
82.5°	227.7	217.5
85°	152.5	138.2
87.5°	69.1	61.0
90°	0.0	0.0

(END OF REPORT)