

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: P165182

Luminaire Tested: **VTS-F07-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165182
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F07-LED-E1-SL3-HSS
Description: VENTUS LED SITE LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9899.5 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

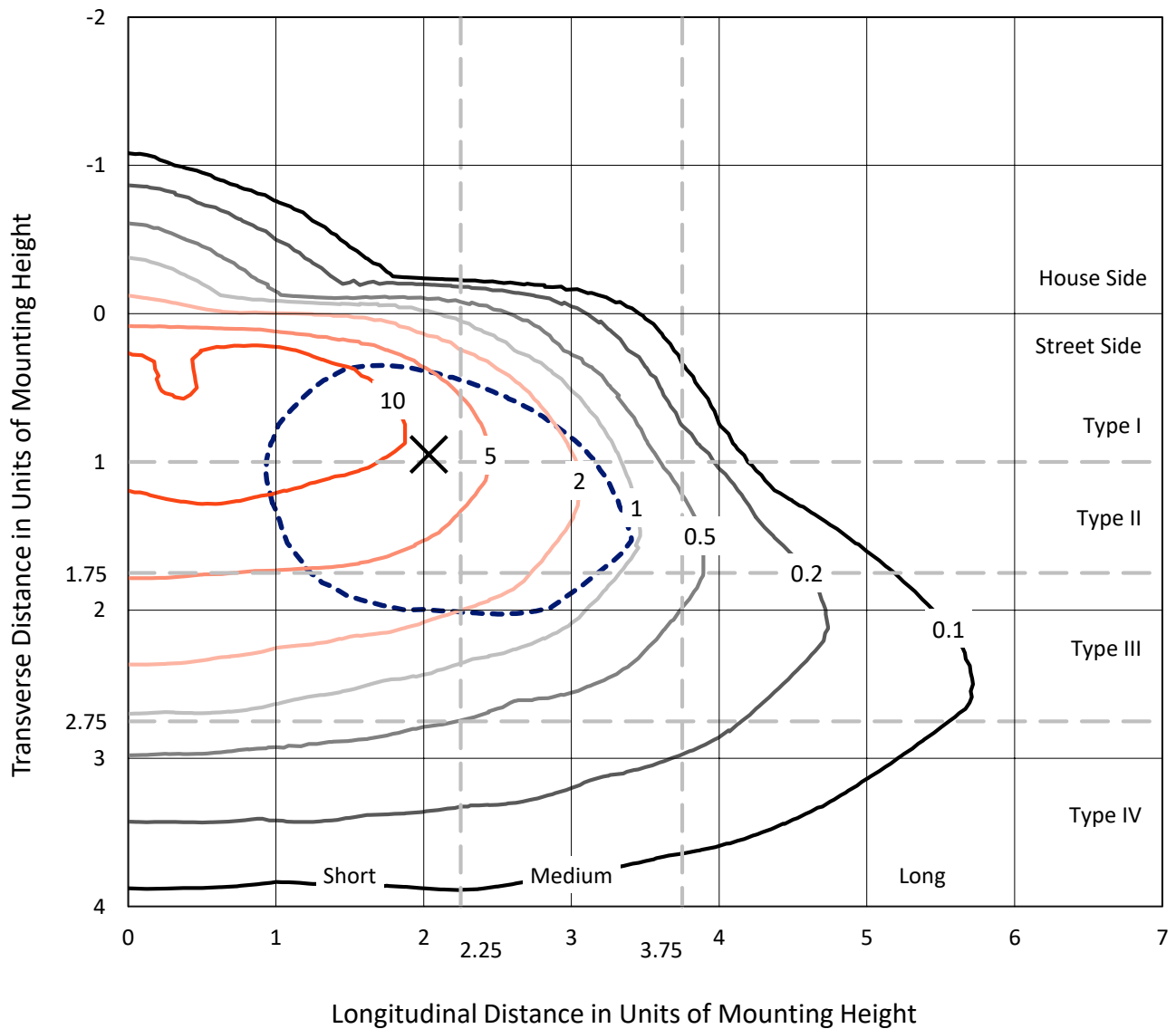
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P165182

CATALOG NUMBER: VTS-F07-LED-E1-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

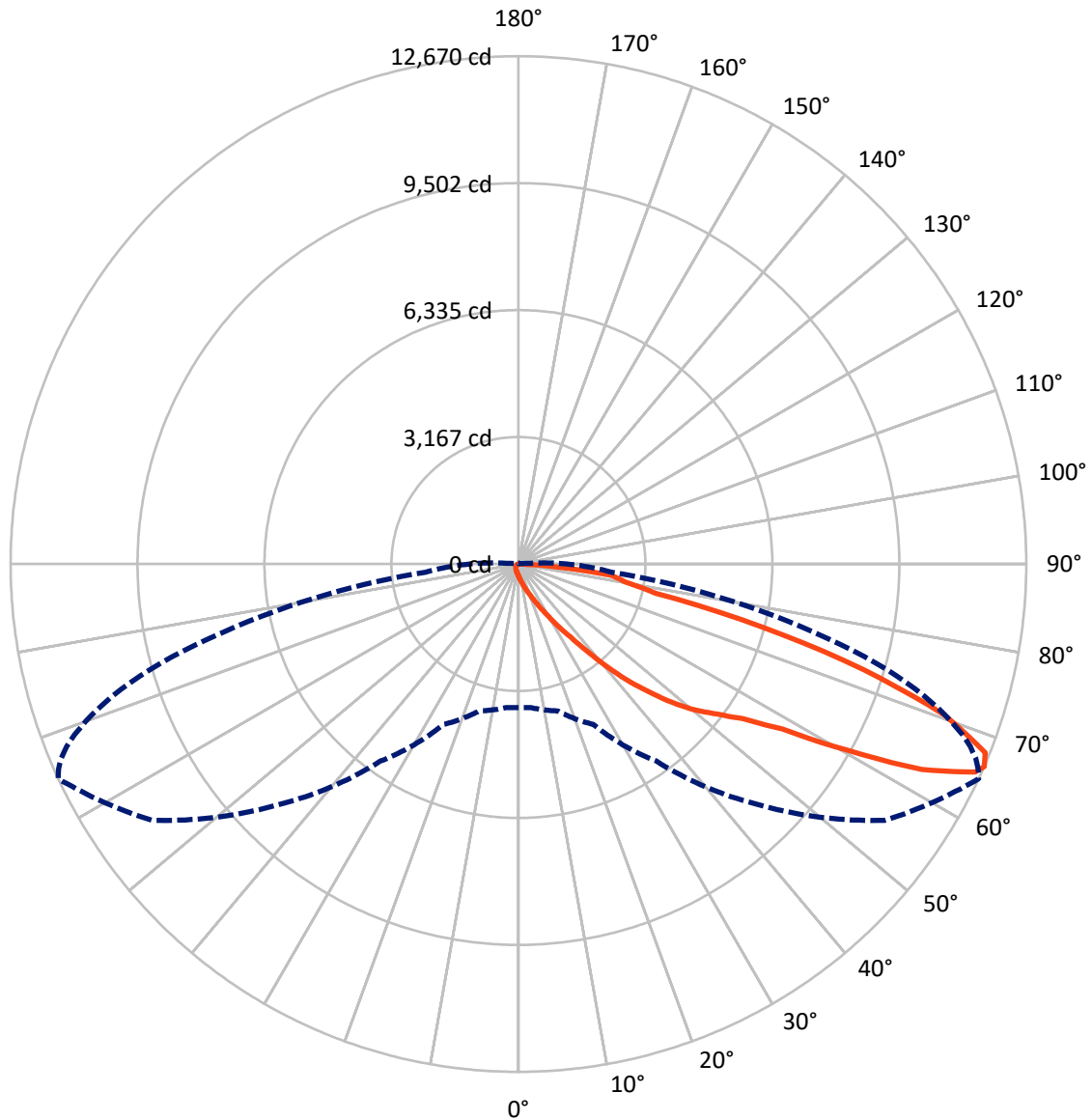


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165182

CATALOG NUMBER: VTS-F07-LED-E1-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P165182

CATALOG NUMBER: VTS-F07-LED-E1-SL3-HSS

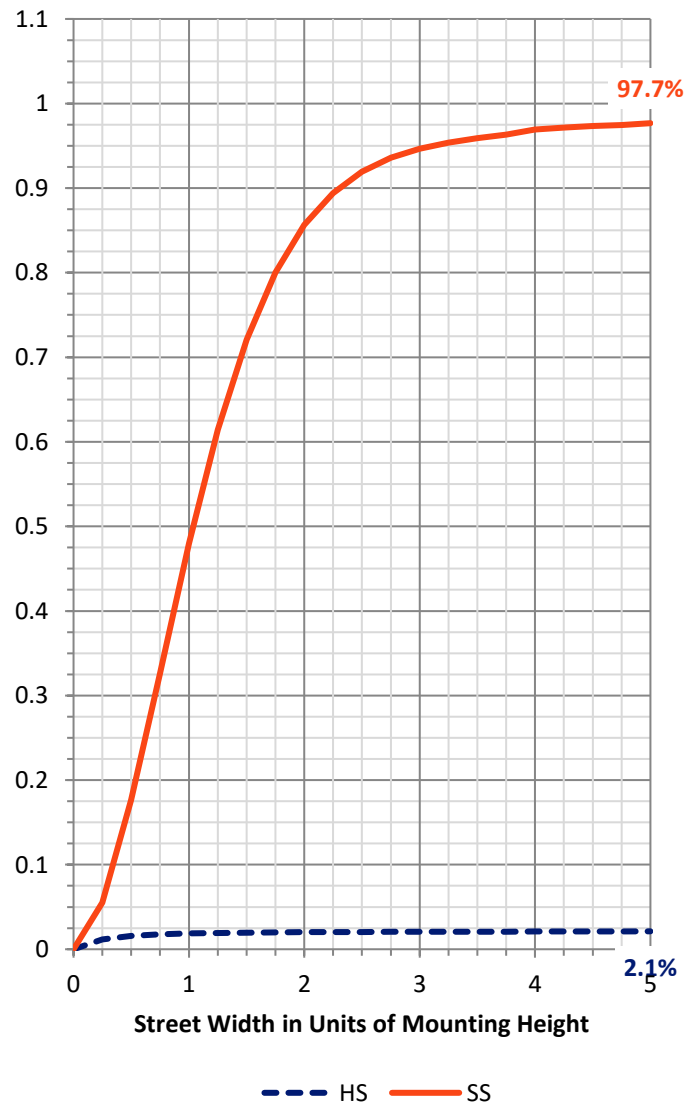
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	214.5	0.0	214.5
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	9684.9	0.0	9684.9
	% Fixture	97.8	0.0	97.8
Total	Lumens	9899.5	0.0	9899.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	0.3
10°-20°	141.8	1.4
20°-30°	305.9	3.1
30°-40°	653.3	6.6
40°-50°	1444.7	14.6
50°-60°	2448.3	24.7
60°-70°	3267.1	33.0
70°-80°	1439.1	14.5
80°-90°	165.8	1.7
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°	9899.5	100.0
0°-180°	9899.5	100.0



REPORT NUMBER: P165182

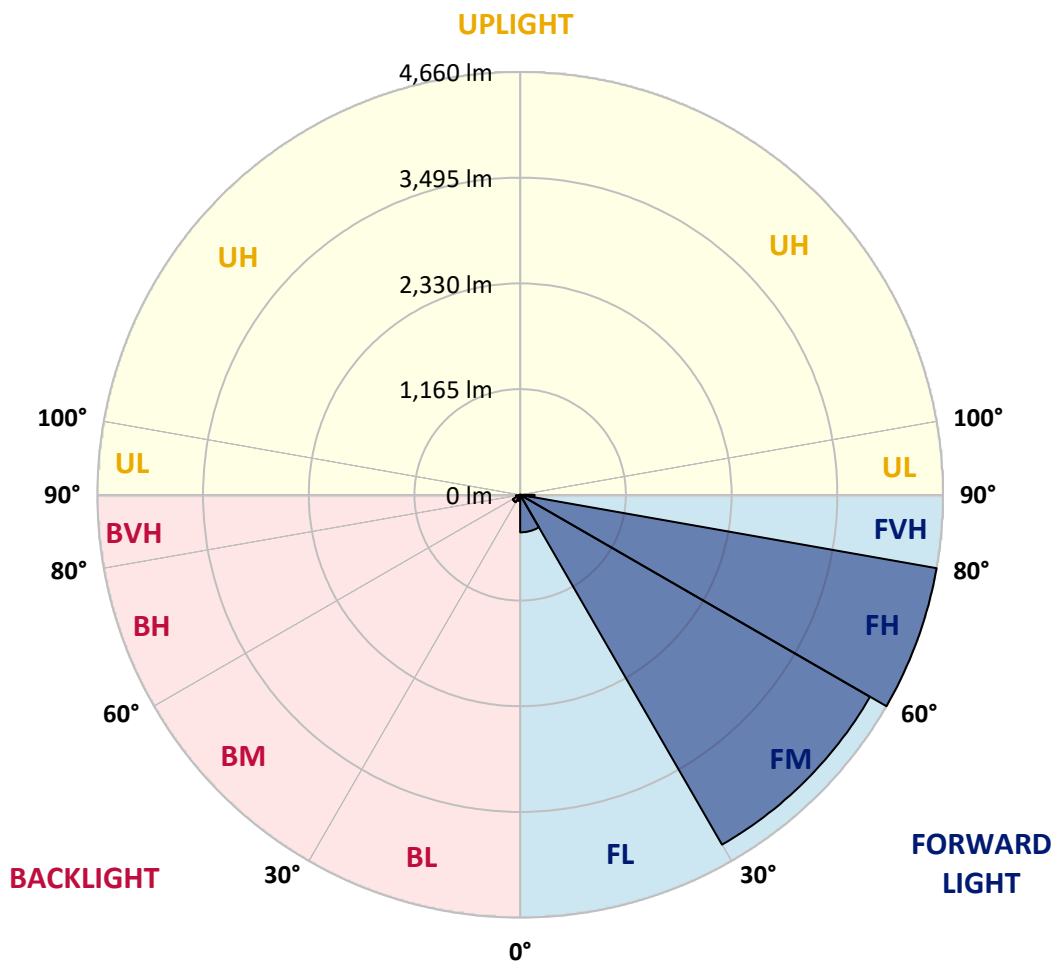
CATALOG NUMBER: VTS-F07-LED-E1-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.5	4.2			
FM	(30°-60°)	4452.1	45.0			
FH	(60°-80°)	4660.2	47.1			G2/5000
FVH	(80°-90°)	159.2	1.6			G2/225
BL	(0°-30°)	67.7	0.7	B0/110		
BM	(30°-60°)	94.2	1.0	B0/220		
BH	(60°-80°)	46.0	0.5	B0/110		G0/110
BVH	(80°-90°)	6.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short





REPORT NUMBER: P165182

CATALOG NUMBER: VTS-F07-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	376.9	374.9	367.3	367.3	355.9	348.3	338.7	329.3	329.3	327.3	325.5
5°	498.6	487.3	485.3	464.4	447.3	422.5	399.7	369.3	365.4	361.6	359.7
7.5°	633.8	631.8	614.7	590.0	555.8	510.0	464.4	414.9	407.3	403.5	395.8
10°	808.9	799.3	776.5	734.6	683.3	622.4	548.2	470.0	460.6	452.9	449.1
12.5°	976.4	959.3	945.9	892.6	827.9	738.4	648.9	536.7	529.1	519.6	504.4
15°	1132.4	1117.1	1094.4	1048.7	976.4	864.0	759.4	622.4	603.3	590.0	578.6
17.5°	1254.2	1244.7	1218.0	1166.7	1088.6	989.7	864.0	709.9	694.7	677.5	656.6
20°	1370.4	1356.9	1315.1	1244.7	1160.9	1084.8	987.8	824.0	803.1	782.2	759.4
22.5°	1480.7	1467.3	1398.9	1282.8	1193.3	1160.9	1126.7	953.5	921.1	904.0	881.1
25°	1634.9	1606.4	1499.7	1315.1	1195.3	1220.0	1278.9	1120.9	1090.6	1065.8	1029.6
27.5°	1842.4	1804.2	1636.8	1362.7	1202.8	1284.7	1454.0	1324.6	1292.2	1263.7	1223.8
30°	2076.4	2051.7	1851.8	1476.9	1258.0	1379.8	1650.0	1583.5	1545.4	1511.1	1463.6
32.5°	2312.4	2278.2	2080.2	1693.8	1406.4	1564.4	1895.6	1884.2	1834.7	1802.4	1750.9
35°	2519.8	2502.7	2356.2	2049.7	1745.3	1888.0	2222.9	2236.2	2192.5	2158.2	2101.1
37.5°	2660.7	2660.7	2632.2	2432.2	2283.8	2390.4	2704.4	2706.4	2662.6	2584.6	2556.0
40°	2733.0	2753.9	2856.7	2894.8	2887.1	3024.2	3336.4	3302.1	3265.9	3225.9	3130.8
42.5°	2881.5	2900.4	3119.3	3382.0	3553.3	3734.1	3949.1	3937.7	3894.0	3821.7	3734.1
45°	3132.7	3157.5	3418.2	3835.0	4187.0	4444.0	4581.0	4527.7	4483.9	4415.5	4369.7
47.5°	3452.4	3500.0	3795.0	4310.8	4735.2	5159.5	5302.3	5161.5	5123.5	5070.1	4995.9
50°	3793.1	3838.8	4152.8	4742.8	5222.4	5728.6	5966.6	5728.6	5673.5	5656.3	5572.6
52.5°	4088.1	4126.2	4428.8	5075.9	5595.4	6189.2	6535.6	6221.6	6181.6	6124.5	6063.6
55°	4263.2	4293.7	4577.2	5235.7	5848.6	6604.1	7085.7	6809.7	6750.6	6727.9	6640.3
57.5°	4322.2	4352.6	4607.7	5256.6	5985.6	6982.8	7753.7	7763.2	7692.8	7611.0	7584.3
60°	4322.2	4356.4	4571.5	5205.3	6118.8	7386.3	8644.3	9438.0	9285.8	9270.5	9173.4
62.5°	4143.3	4175.7	4392.6	5047.3	6297.7	7930.7	9885.2	11286.0	11242.3	11143.2	10983.4
65°	3755.0	3774.1	3987.2	4643.9	6229.2	8431.2	10960.5	12515.5	12445.1	12250.9	12045.4
66°	3579.9	3595.1	3795.0	4413.5	6004.6	8499.7	11150.9	12669.6	12553.6	12389.8	12157.6
67.5°	3326.8	3353.5	3494.2	3985.3	5466.0	8261.8	11031.0	12561.2	12460.3	12262.3	12030.2
70°	2221.1	2202.0	2698.8	3058.4	4164.2	6731.7	9896.7	11278.4	11280.3	11187.1	11093.8
72.5°	1054.4	1065.8	1210.4	1882.2	2725.3	4497.3	7877.4	9002.1	9131.6	8964.1	8848.0
75°	757.5	774.6	862.2	1151.5	1625.3	2698.8	5106.3	6295.8	6299.6	6002.7	5738.2
77.5°	220.7	230.3	323.5	709.9	1218.0	1821.3	2932.8	3500.0	3418.2	3205.0	3005.1
80°	91.3	91.3	95.1	226.5	489.1	1237.1	2051.7	2694.9	2685.5	2603.6	2485.6
82.5°	34.2	36.2	45.7	93.3	116.2	304.5	1368.4	2339.1	2333.3	2217.3	2133.5
85°	3.8	3.8	11.4	40.0	43.8	57.1	274.0	1031.5	1025.8	1031.5	904.0
87.5°	0.0	0.0	1.8	3.8	5.7	7.6	11.4	40.0	43.8	41.8	38.0
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: P165182

CATALOG NUMBER: VTS-F07-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	325.5	321.6	321.6	319.8	319.8	319.8	317.8	316.0	316.0	314.0	312.2
5°	355.9	352.0	350.2	346.4	344.5	342.6	338.7	336.9	333.1	331.1	329.3
7.5°	392.0	384.4	382.5	376.9	371.1	367.3	363.5	357.8	354.0	346.4	344.5
10°	437.8	428.2	420.6	412.9	407.3	397.8	392.0	384.4	376.9	371.1	365.4
12.5°	496.7	483.4	472.0	464.4	451.1	439.6	428.2	422.5	407.3	399.7	390.2
15°	561.5	546.2	532.9	517.7	508.2	489.1	473.9	456.7	449.1	435.8	420.6
17.5°	645.1	620.4	599.5	584.3	565.3	546.2	529.1	512.0	489.1	473.9	454.9
20°	734.6	713.7	685.1	658.5	635.7	612.9	588.0	565.3	544.4	519.6	496.7
22.5°	848.9	818.4	784.2	757.5	727.1	702.3	668.0	637.6	603.3	570.9	544.4
25°	993.5	953.5	921.1	883.1	846.9	808.9	766.9	728.9	685.1	654.7	609.1
27.5°	1172.4	1134.4	1090.6	1041.1	1004.9	947.8	892.6	845.1	793.6	746.0	694.7
30°	1400.8	1345.6	1299.9	1252.4	1180.0	1124.8	1060.0	995.4	924.9	877.4	799.3
32.5°	1674.8	1615.8	1547.3	1478.8	1412.2	1334.2	1254.2	1174.2	1096.2	1008.7	928.7
35°	2009.8	1939.3	1861.3	1787.1	1684.4	1600.6	1499.7	1389.3	1301.8	1200.9	1100.0
37.5°	2453.3	2337.1	2268.6	2190.6	2051.7	1937.5	1825.1	1714.8	1560.6	1454.0	1311.3
40°	3009.0	2940.4	2828.2	2702.6	2576.9	2426.6	2274.4	2127.8	1948.9	1800.4	1634.9
42.5°	3661.7	3560.9	3446.7	3265.9	3138.4	2961.3	2788.2	2594.0	2375.2	2184.9	1990.8
45°	4274.6	4154.8	4067.1	3886.4	3753.1	3543.7	3334.4	3128.9	2875.7	2630.2	2405.7
47.5°	4937.0	4837.9	4693.3	4546.8	4411.7	4175.7	3949.1	3699.9	3433.3	3142.2	2851.0
50°	5519.3	5441.3	5342.3	5165.3	5015.0	4817.0	4550.6	4278.4	3941.5	3652.2	3321.1
52.5°	6014.1	5953.2	5814.3	5688.6	5553.5	5367.0	5129.2	4868.4	4504.9	4187.0	3810.2
55°	6598.4	6554.6	6432.8	6354.8	6235.0	6056.1	5833.3	5591.7	5207.2	4860.8	4434.4
57.5°	7555.7	7521.5	7414.8	7382.5	7264.5	7108.5	6834.4	6575.6	6126.4	5696.3	5209.1
60°	9141.1	9072.6	8916.5	8836.6	8587.2	8377.9	8022.1	7666.1	7123.7	6575.6	5989.4
62.5°	10838.7	10646.5	10349.6	10094.7	9740.6	9377.1	8901.2	8357.0	7721.3	7070.4	6396.6
65°	11754.2	11426.9	11051.9	10646.5	10187.9	9653.0	9053.6	8400.8	7717.5	7030.5	6318.6
66°	11858.9	11489.6	11091.9	10640.9	10130.8	9561.7	8952.7	8267.5	7557.6	6887.7	6175.9
67.5°	11727.6	11341.2	10920.7	10420.1	9868.1	9278.1	8638.7	7926.8	7243.6	6564.1	5871.4
70°	10808.3	10423.8	10048.9	9521.8	8933.6	8339.9	7734.6	6939.1	6292.1	5667.7	5051.1
72.5°	8631.0	8370.3	7999.2	7548.1	6975.2	6278.6	5774.3	5062.6	4501.1	3895.9	3418.2
75°	5393.7	5026.4	4567.7	3992.9	3555.2	2989.9	2694.9	2154.4	1834.7	1554.9	1284.7
77.5°	2757.7	2481.8	2160.2	1836.6	1526.4	1218.0	942.0	666.2	449.1	312.2	232.2
80°	2278.2	2034.6	1768.0	1473.1	1199.1	930.7	670.0	456.7	291.2	190.3	148.4
82.5°	1882.2	1676.7	1438.8	1164.7	926.9	730.9	508.2	331.1	205.5	133.3	104.7
85°	801.3	727.1	561.5	445.3	334.9	247.4	173.2	116.2	81.8	66.6	60.9
87.5°	34.2	38.0	36.2	28.5	20.9	20.9	19.1	15.3	15.3	15.3	15.3
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: P165182

CATALOG NUMBER: VTS-F07-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	312.2	310.2	308.4	308.4	306.4	304.5	293.1	283.6	272.2	264.5	256.9
5°	325.5	323.5	319.8	317.8	314.0	312.2	287.4	266.4	249.3	236.0	226.5
7.5°	338.7	336.9	331.1	325.5	323.5	319.8	279.8	253.1	230.3	215.1	205.5
10°	355.9	350.2	344.5	336.9	331.1	325.5	272.2	237.9	213.1	199.8	190.3
12.5°	380.6	371.1	361.6	352.0	344.5	334.9	268.4	224.6	199.8	184.6	175.1
15°	409.2	395.8	384.4	373.1	359.7	350.2	260.7	213.1	188.4	173.2	161.8
17.5°	435.8	420.6	403.5	386.4	373.1	359.7	253.1	201.8	176.9	161.8	150.4
20°	473.9	451.1	430.2	409.2	390.2	373.1	241.7	190.3	167.5	150.4	138.9
22.5°	515.8	489.1	462.5	434.0	409.2	386.4	232.2	180.8	158.0	140.9	127.5
25°	569.1	536.7	500.5	464.4	435.8	405.4	222.7	171.3	148.4	131.3	118.0
27.5°	643.3	597.6	557.6	512.0	468.2	434.0	215.1	163.7	138.9	121.8	108.5
30°	744.2	677.5	614.7	565.3	513.8	464.4	207.5	154.2	131.3	112.3	97.1
32.5°	856.4	778.4	706.0	631.8	567.1	510.0	199.8	146.5	121.8	102.7	89.5
35°	995.4	896.4	799.3	713.7	635.7	559.5	192.2	138.9	114.2	93.3	80.0
37.5°	1195.3	1071.5	944.0	833.6	732.7	631.8	186.5	131.3	104.7	83.8	70.4
40°	1469.3	1309.4	1153.3	1002.9	871.7	746.0	178.9	123.7	97.1	76.2	62.8
42.5°	1766.2	1572.0	1366.5	1197.1	1016.4	858.4	171.3	116.2	89.5	68.5	55.2
45°	2135.5	1893.7	1644.4	1414.0	1193.3	989.7	163.7	108.5	80.0	60.9	47.6
47.5°	2538.9	2230.6	1948.9	1659.6	1396.9	1153.3	154.2	102.7	72.3	53.3	41.8
50°	2953.8	2628.4	2272.4	1943.1	1631.1	1317.1	144.7	93.3	64.7	47.6	34.2
52.5°	3401.0	3016.6	2653.1	2243.9	1880.4	1532.0	135.1	85.6	58.9	41.8	28.5
55°	3970.1	3540.0	3113.7	2655.0	2217.3	1781.4	125.6	76.2	51.4	36.2	22.9
57.5°	4685.7	4175.7	3652.2	3134.6	2603.6	2108.8	118.0	66.6	43.8	30.4	19.1
60°	5361.3	4765.7	4131.9	3536.2	2936.6	2360.0	106.6	58.9	38.0	24.7	19.1
62.5°	5711.5	5032.1	4348.8	3692.2	3052.8	2449.5	95.1	49.5	32.4	20.9	17.1
65°	5625.9	4933.1	4270.8	3608.4	2982.4	2392.4	83.8	43.8	28.5	19.1	17.1
66°	5502.2	4817.0	4150.9	3520.9	2923.3	2331.5	78.0	41.8	26.7	19.1	15.3
67.5°	5231.9	4569.5	3933.9	3347.7	2761.5	2215.3	70.4	38.0	24.7	17.1	15.3
70°	4468.8	3867.3	3359.1	2837.7	2360.0	1867.1	57.1	32.4	20.9	15.3	15.3
72.5°	2957.5	2548.4	2209.6	1901.3	1589.1	1233.3	47.6	26.7	17.1	15.3	13.3
75°	1115.3	1008.7	866.0	778.4	679.5	595.7	38.0	17.1	13.3	13.3	13.3
77.5°	198.0	182.7	161.8	148.4	137.1	125.6	30.4	11.4	11.4	13.3	13.3
80°	133.3	123.7	112.3	102.7	95.1	85.6	20.9	9.5	11.4	11.4	13.3
82.5°	95.1	89.5	83.8	76.2	70.4	62.8	13.3	9.5	11.4	11.4	11.4
85°	57.1	53.3	49.5	45.7	40.0	38.0	9.5	9.5	9.5	11.4	11.4
87.5°	15.3	13.3	15.3	15.3	11.4	13.3	7.6	7.6	7.6	9.5	9.5
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: P165182

CATALOG NUMBER: VTS-F07-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	298.8	298.8	298.8	298.8	298.8
2.5°	253.1	253.1	249.3	255.1	255.1
5°	218.9	218.9	216.9	218.9	218.9
7.5°	199.8	198.0	198.0	198.0	199.8
10°	182.7	180.8	180.8	180.8	180.8
12.5°	167.5	165.6	163.7	165.6	165.6
15°	154.2	150.4	150.4	150.4	150.4
17.5°	142.7	138.9	137.1	137.1	137.1
20°	131.3	125.6	125.6	125.6	125.6
22.5°	119.8	114.2	114.2	114.2	114.2
25°	108.5	102.7	102.7	102.7	102.7
27.5°	98.9	93.3	93.3	93.3	93.3
30°	87.6	83.8	83.8	85.6	83.8
32.5°	80.0	74.2	74.2	76.2	76.2
35°	70.4	66.6	66.6	66.6	66.6
37.5°	60.9	57.1	57.1	57.1	57.1
40°	53.3	49.5	47.6	49.5	49.5
42.5°	45.7	41.8	40.0	40.0	40.0
45°	40.0	34.2	32.4	34.2	34.2
47.5°	32.4	28.5	28.5	30.4	30.4
50°	24.7	24.7	26.7	30.4	30.4
52.5°	22.9	22.9	26.7	30.4	30.4
55°	20.9	22.9	26.7	28.5	30.4
57.5°	19.1	22.9	26.7	28.5	28.5
60°	19.1	20.9	24.7	28.5	28.5
62.5°	17.1	19.1	22.9	26.7	26.7
65°	17.1	19.1	22.9	26.7	26.7
66°	17.1	19.1	22.9	26.7	26.7
67.5°	17.1	19.1	22.9	26.7	26.7
70°	17.1	19.1	22.9	24.7	24.7
72.5°	15.3	17.1	20.9	24.7	24.7
75°	15.3	17.1	20.9	24.7	24.7
77.5°	15.3	17.1	20.9	24.7	24.7
80°	15.3	17.1	20.9	22.9	24.7
82.5°	13.3	17.1	19.1	22.9	22.9
85°	13.3	15.3	19.1	20.9	22.9
87.5°	11.4	13.3	15.3	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)