

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: P164930

Luminaire Tested: **VTS-F04-LED-E1-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P164930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F04-LED-E1-SL2-HSS-8030
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5049 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

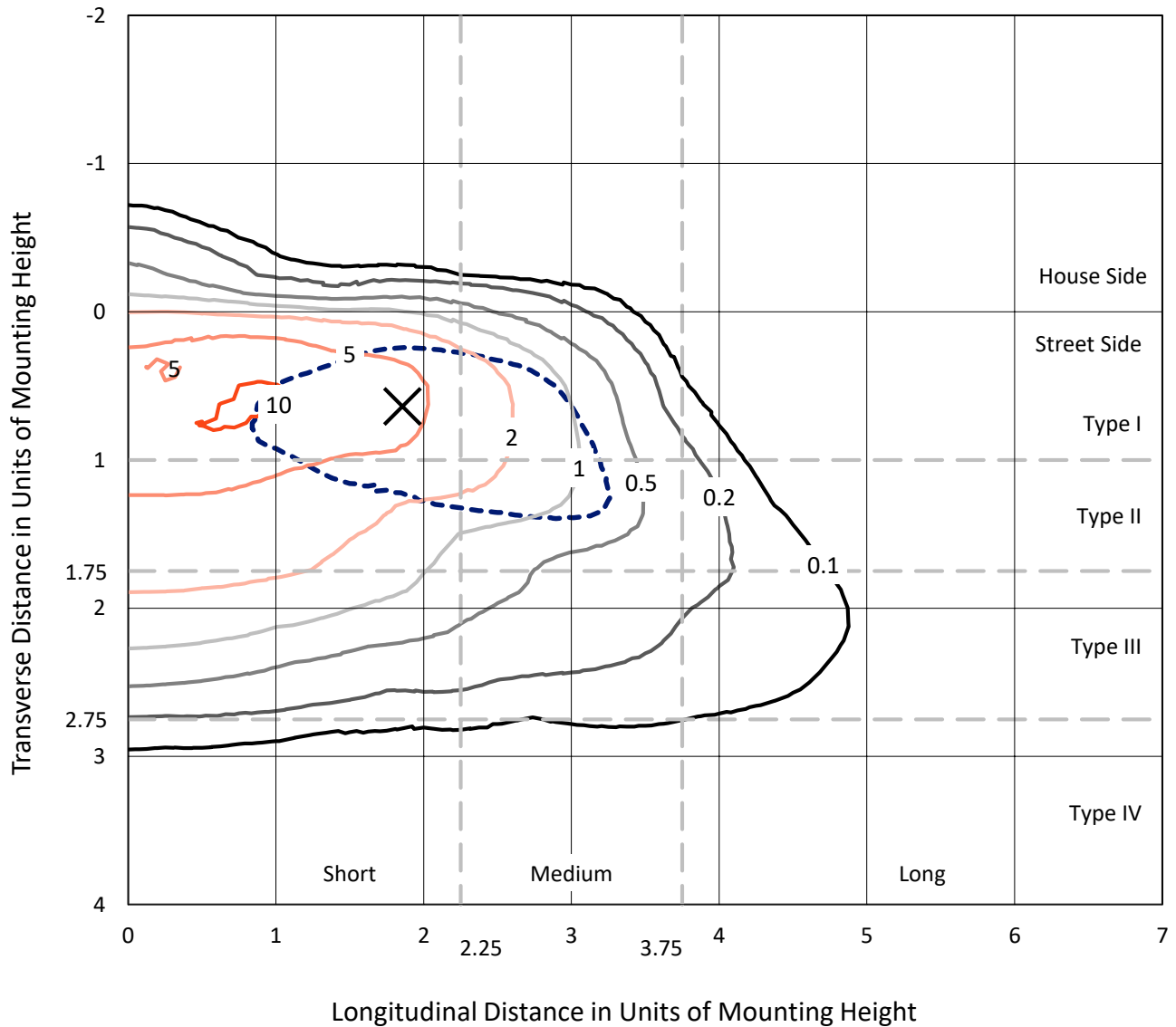
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P164930

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

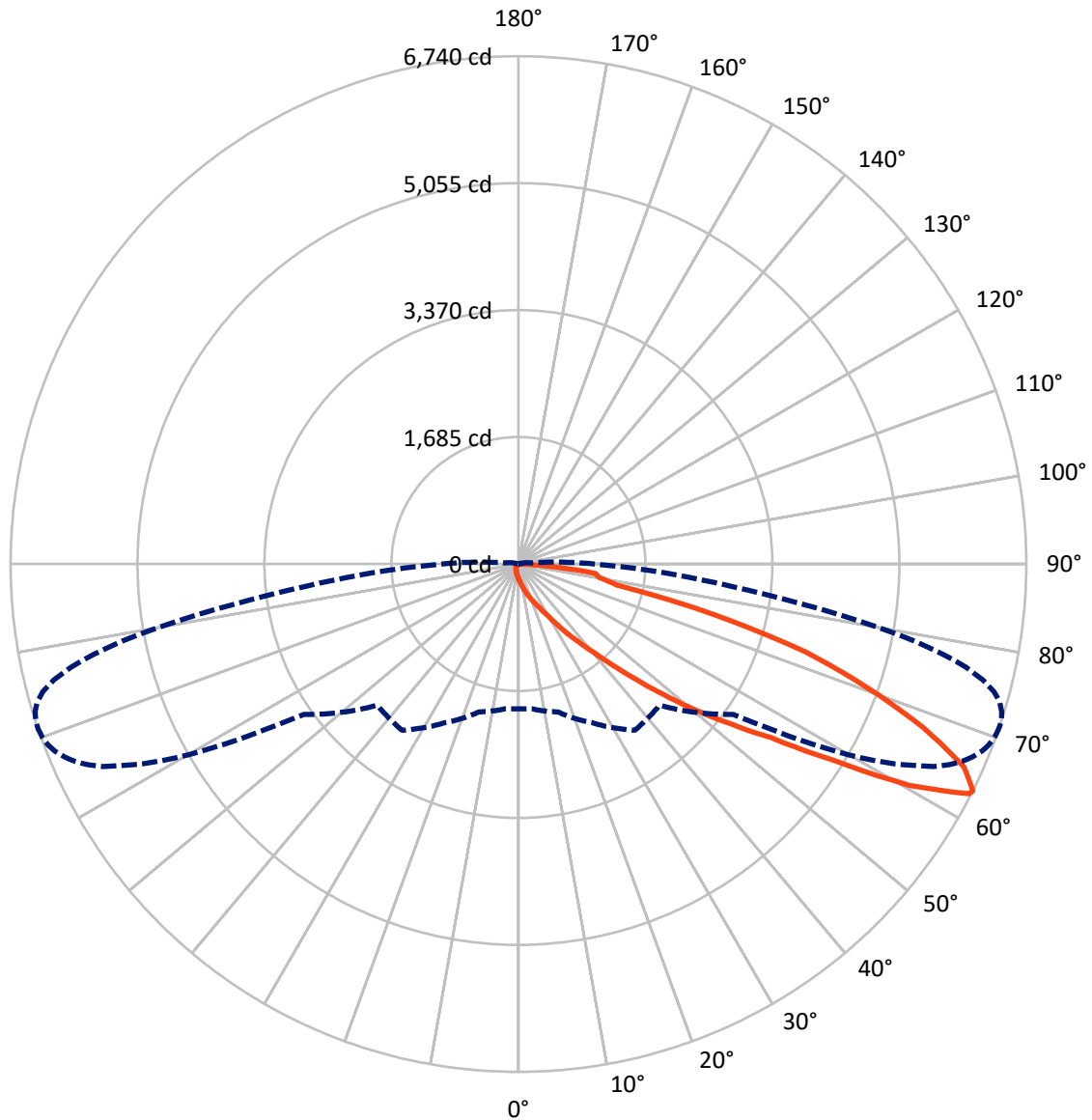


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P164930

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P164930

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	107.2	0.0	107.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4941.8	0.0	4941.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	5049.0	0.0	5049.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	0.4
10°-20°	83.0	1.6
20°-30°	168.6	3.3
30°-40°	412.0	8.2
40°-50°	921.4	18.2
50°-60°	1295.5	25.7
60°-70°	1523.4	30.2
70°-80°	550.1	10.9
80°-90°	73.6	1.5
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°	5049.0	100.0
0°-180°	5049.0	100.0



REPORT NUMBER: P164930

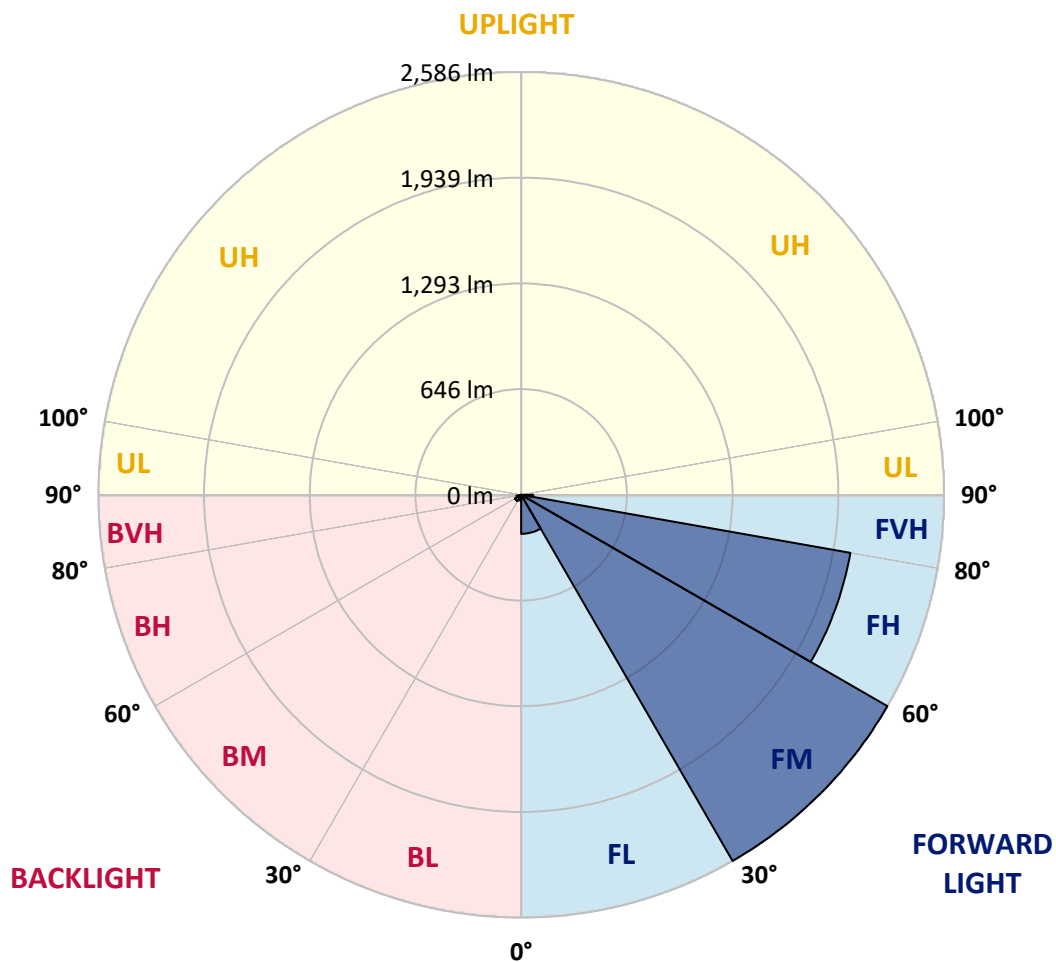
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.6	4.7			
FM	(30°-60°)	2585.7	51.2			
FH	(60°-80°)	2044.1	40.5			G2/5000
FVH	(80°-90°)	73.4	1.5			G1/100
BL	(0°-30°)	34.5	0.7	B0/110		
BM	(30°-60°)	43.2	0.9	B0/220		
BH	(60°-80°)	29.4	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			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 II Short





REPORT NUMBER: P164930

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	253.3	256.1	254.2	249.7	244.1	236.8	230.4	230.4	229.5	226.7	227.6
5°	332.3	333.2	329.5	318.5	308.4	292.8	275.3	273.5	271.7	268.9	268.0
7.5°	409.4	413.0	409.4	397.4	377.2	353.4	325.8	323.1	317.6	317.6	313.9
10°	488.3	488.3	484.6	470.9	452.5	418.5	383.7	379.1	372.7	370.8	365.3
12.5°	544.3	544.3	542.5	535.1	520.4	490.2	447.9	443.3	435.1	432.3	425.9
15°	566.3	566.3	567.3	573.7	574.6	560.8	516.8	513.1	504.8	497.5	494.7
17.5°	580.1	579.2	579.2	588.4	604.9	614.1	585.6	581.9	572.8	569.1	559.9
20°	610.4	608.6	603.0	603.0	618.6	650.8	650.8	649.9	639.8	637.0	632.4
22.5°	655.4	653.5	637.0	623.2	630.6	671.0	708.6	706.8	703.1	699.4	696.7
25°	728.8	722.4	693.9	653.5	647.1	690.3	752.6	757.3	760.0	760.0	761.8
27.5°	839.9	831.6	781.1	705.9	677.4	721.4	801.3	810.5	818.7	820.6	828.8
30°	994.0	979.4	906.9	796.7	731.6	767.4	872.9	883.0	894.9	898.6	911.4
32.5°	1247.4	1239.1	1169.4	1004.1	864.6	857.3	973.0	985.8	1001.4	1007.8	1023.4
35°	1632.9	1634.8	1577.9	1429.1	1236.4	1135.4	1152.0	1162.9	1168.5	1187.7	1196.0
37.5°	1894.5	1899.1	1912.0	1853.2	1715.5	1612.7	1483.3	1495.3	1466.8	1469.5	1470.4
40°	2037.7	2052.4	2127.7	2184.6	2173.5	2113.9	2010.2	2016.6	1963.3	1951.4	1893.6
42.5°	2133.1	2152.4	2272.7	2448.9	2538.8	2593.0	2569.2	2566.4	2525.1	2509.5	2460.8
45°	2192.8	2210.3	2361.7	2621.5	2828.9	2986.8	3051.9	3059.3	3024.4	3008.8	2968.4
47.5°	2190.0	2210.3	2372.7	2685.7	2991.4	3243.8	3427.4	3436.5	3457.6	3443.9	3446.6
50°	2068.9	2088.2	2251.6	2576.5	2943.6	3361.3	3697.2	3726.6	3760.5	3783.5	3794.5
52.5°	1922.0	1935.8	2080.8	2389.2	2739.8	3312.6	3856.9	3907.4	3957.9	4001.0	4031.3
55°	1867.9	1883.5	1997.3	2253.4	2576.5	3108.8	3931.3	4005.6	4077.2	4147.9	4205.7
57.5°	1896.3	1911.0	1992.7	2189.1	2479.2	2894.1	3952.4	4068.0	4185.5	4300.3	4414.1
60°	2001.0	2016.6	2086.4	2248.8	2453.5	2770.2	3869.8	4061.6	4257.1	4457.2	4645.4
62.5°	1959.7	1966.1	2068.9	2353.5	2637.1	2664.6	3569.6	3837.7	4136.0	4444.4	4748.2
63°	1920.2	1927.6	2032.2	2325.0	2693.1	2649.0	3476.9	3759.6	4074.5	4406.7	4737.2
65°	1741.2	1742.1	1822.0	2053.3	2630.7	2676.5	3063.9	3333.7	3695.4	4093.7	4511.4
67.5°	1299.7	1293.3	1370.4	1546.6	2065.2	2677.5	2629.7	2781.2	3032.7	3386.1	3760.5
70°	460.8	450.7	575.5	819.6	1286.8	2190.0	2259.8	2269.9	2339.7	2530.6	2765.6
72.5°	149.6	152.4	183.5	300.2	592.9	1474.1	2046.0	2014.7	1996.4	1995.5	2026.7
75°	59.6	60.6	73.4	133.1	266.2	710.4	1791.7	1809.1	1815.6	1824.7	1834.9
77.5°	28.4	31.2	41.3	74.4	132.2	351.5	1282.3	1430.0	1514.5	1579.7	1619.2
80°	10.1	11.9	23.0	45.9	61.5	161.5	675.6	815.1	939.0	1098.7	1236.4
82.5°	0.0	0.0	4.6	32.1	33.9	65.2	277.2	324.9	371.7	481.9	618.6
85°	0.0	0.0	0.0	9.2	10.1	11.0	93.6	112.9	126.7	147.8	170.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	5.5	13.8	21.1
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: P164930

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	225.8	224.9	224.9	223.1	222.1	220.3	219.4	216.6	215.7	215.7	215.7
5°	267.1	263.4	261.6	257.0	254.2	253.3	248.8	246.9	244.1	245.1	240.5
7.5°	313.0	306.6	303.8	297.4	295.6	289.1	287.3	282.7	280.0	274.5	272.6
10°	363.5	355.2	350.7	340.5	337.8	333.2	327.7	322.2	317.6	312.1	309.4
12.5°	421.3	414.0	410.3	396.5	390.1	383.7	376.3	369.0	361.6	357.1	350.7
15°	489.2	477.3	473.6	460.8	449.8	441.5	431.4	422.2	416.7	407.6	401.1
17.5°	556.2	544.3	541.6	522.3	510.3	504.8	493.8	481.9	471.8	462.6	452.5
20°	623.2	615.0	607.6	589.3	576.5	567.3	552.5	540.6	532.4	519.5	506.7
22.5°	690.3	682.0	676.5	657.2	645.3	632.4	619.6	606.7	594.8	579.2	564.5
25°	759.1	753.6	750.8	733.4	722.4	710.4	697.6	682.9	668.2	650.8	635.2
27.5°	830.7	832.5	827.0	823.3	811.4	803.1	783.0	772.9	761.8	740.7	721.4
30°	921.5	927.0	925.2	928.0	920.6	915.1	899.5	886.7	873.8	853.6	831.6
32.5°	1036.3	1043.7	1047.3	1057.4	1053.7	1051.9	1047.3	1028.9	1019.7	984.9	975.7
35°	1213.4	1209.8	1225.4	1233.6	1229.9	1228.1	1222.6	1212.5	1201.5	1176.7	1153.8
37.5°	1443.8	1447.5	1453.0	1436.5	1425.5	1424.6	1408.0	1397.9	1382.3	1354.8	1327.3
40°	1866.0	1843.1	1817.4	1747.6	1717.4	1699.9	1651.3	1637.5	1610.9	1573.2	1544.8
42.5°	2414.9	2392.0	2314.9	2198.3	2135.9	2049.6	2010.2	1961.5	1923.9	1862.4	1829.3
45°	2960.2	2894.1	2884.9	2749.0	2672.0	2558.1	2487.5	2405.7	2320.4	2239.6	2180.9
47.5°	3420.0	3405.3	3360.4	3277.7	3206.2	3110.7	3019.8	2894.1	2805.9	2691.2	2585.7
50°	3788.1	3787.2	3770.6	3722.9	3663.3	3586.2	3506.3	3399.8	3299.8	3159.3	3046.5
52.5°	4063.5	4078.1	4083.7	4068.9	4046.0	3978.1	3937.7	3848.7	3764.2	3644.9	3522.8
55°	4265.4	4319.5	4347.1	4378.3	4371.9	4348.0	4346.2	4288.3	4249.8	4155.2	4068.9
57.5°	4515.1	4604.1	4689.4	4840.9	4846.4	4899.7	4927.2	4954.7	4962.0	4924.4	4896.0
60°	4832.6	5014.4	5175.9	5492.6	5575.2	5705.5	5790.0	5881.8	5959.8	5966.2	5964.4
62.5°	5056.6	5336.5	5597.2	6067.2	6227.8	6378.4	6491.2	6580.3	6634.4	6689.5	6715.2
63°	5063.0	5369.6	5646.8	6131.4	6300.3	6443.5	6550.9	6633.5	6690.4	6723.4	6740.0
65°	4907.9	5279.6	5610.1	6092.9	6251.7	6395.8	6451.8	6505.9	6533.5	6546.3	6497.6
67.5°	4159.8	4523.3	4908.8	5448.5	5584.4	5756.9	5802.9	5830.4	5843.2	5840.5	5799.2
70°	3110.7	3415.5	3844.1	4460.9	4640.8	4809.7	4914.3	4959.3	4974.0	4969.4	4907.9
72.5°	2171.7	2350.7	2704.1	3390.6	3635.7	3852.3	3981.8	4048.8	4062.5	4035.0	3978.1
75°	1823.8	1833.0	1912.8	2288.2	2517.7	2749.0	2895.0	2937.2	2909.7	2826.1	2681.1
77.5°	1628.3	1648.5	1648.5	1704.5	1749.5	1813.7	1827.5	1724.7	1605.4	1451.2	1326.4
80°	1365.8	1436.5	1486.1	1527.4	1531.9	1519.1	1485.1	1427.3	1335.5	1218.0	1087.7
82.5°	829.8	969.3	1026.2	1239.1	1343.8	1414.4	1409.0	1331.8	1262.1	1140.0	1028.9
85°	209.3	225.8	245.1	318.5	357.1	436.0	485.5	508.5	516.8	474.6	429.6
87.5°	20.2	13.8	23.0	17.4	24.8	18.3	24.8	23.0	28.4	30.3	33.1
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: P164930

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	213.9	212.9	212.0	211.1	210.2	209.3	207.5	207.5	205.6	204.7	203.8
5°	237.7	235.9	235.0	233.2	230.4	228.5	225.8	222.1	219.4	218.4	216.6
7.5°	268.0	263.4	261.6	258.9	255.2	249.7	246.0	243.2	238.7	235.9	230.4
10°	302.0	297.4	291.9	286.4	280.9	274.5	269.8	266.2	258.9	255.2	248.8
12.5°	345.1	336.9	330.4	323.1	315.8	308.4	302.9	291.9	285.4	277.2	271.7
15°	389.2	381.8	374.5	365.3	354.3	342.3	336.9	326.7	318.5	305.7	298.3
17.5°	442.4	428.6	417.7	406.6	396.5	385.5	374.5	358.9	347.0	335.9	321.3
20°	494.7	478.2	466.3	451.6	436.9	419.5	406.6	395.6	379.1	364.4	348.8
22.5°	550.7	534.2	514.9	500.3	480.1	466.3	448.9	430.5	414.0	394.7	375.4
25°	618.6	601.2	579.2	559.9	536.9	517.7	496.6	475.5	455.3	433.3	408.5
27.5°	702.2	683.8	659.9	637.0	606.7	582.9	562.7	534.2	508.5	481.0	452.5
30°	807.7	787.5	758.2	725.1	694.8	668.2	639.8	602.1	573.7	540.6	503.9
32.5°	945.4	921.5	882.1	850.9	813.2	778.3	738.9	701.3	660.9	617.8	575.5
35°	1118.9	1096.9	1051.0	1005.1	963.8	922.5	872.9	829.8	772.9	720.5	666.4
37.5°	1298.8	1259.3	1217.1	1167.6	1116.1	1066.6	1006.0	946.3	881.2	824.3	756.3
40°	1504.4	1456.7	1421.8	1368.6	1296.0	1225.4	1169.4	1095.0	1013.3	937.1	857.3
42.5°	1786.2	1733.0	1670.5	1589.8	1537.4	1454.8	1382.3	1294.2	1186.8	1101.5	1005.1
45°	2112.1	2039.5	1979.0	1900.9	1837.6	1734.8	1650.4	1532.9	1425.5	1313.5	1196.0
47.5°	2483.8	2393.8	2305.7	2228.6	2127.7	2026.7	1919.3	1794.5	1656.8	1533.8	1394.3
50°	2910.6	2783.0	2660.9	2561.8	2423.2	2306.6	2190.0	2049.6	1897.2	1755.9	1597.1
52.5°	3385.1	3237.4	3075.8	2923.4	2762.8	2613.2	2472.7	2311.2	2141.4	1968.9	1791.7
55°	3957.9	3846.8	3656.9	3463.2	3248.3	3048.3	2867.4	2667.4	2460.8	2234.1	2047.8
57.5°	4854.7	4800.5	4641.7	4448.1	4168.1	3924.9	3618.3	3373.2	3074.0	2761.9	2521.4
60°	6070.0	6002.9	5913.9	5756.9	5534.8	5204.4	4866.6	4485.7	4030.4	3598.1	3187.8
62.5°	6718.0	6694.1	6621.6	6513.3	6305.8	6045.2	5704.6	5286.0	4772.1	4247.0	3723.9
63°	6737.2	6706.9	6644.5	6534.4	6351.7	6099.3	5765.2	5358.6	4855.6	4320.5	3786.2
65°	6476.6	6464.6	6401.3	6281.0	6156.2	5963.4	5704.6	5354.9	4932.7	4426.9	3895.5
67.5°	5744.1	5708.3	5611.0	5574.3	5487.1	5353.0	5155.7	4915.2	4613.3	4215.8	3756.9
70°	4858.3	4805.1	4683.0	4617.9	4511.4	4426.9	4306.7	4135.0	3948.7	3671.5	3329.2
72.5°	3919.3	3809.2	3697.2	3527.4	3378.7	3228.2	3095.1	2973.9	2769.2	2657.2	2397.5
75°	2545.3	2345.2	2153.4	1896.3	1665.0	1460.4	1261.1	1160.2	950.0	864.6	742.6
77.5°	1207.9	1095.9	945.4	828.8	680.1	555.3	453.4	340.5	267.1	209.3	159.7
80°	974.8	880.2	789.4	683.8	571.8	456.2	349.7	261.6	185.4	128.5	90.9
82.5°	869.2	766.4	654.4	581.9	505.8	414.0	339.6	277.2	204.7	149.6	101.9
85°	337.8	284.5	219.4	179.0	139.5	114.7	103.7	71.6	56.0	44.0	33.9
87.5°	29.4	23.9	19.3	12.9	13.8	7.4	8.2	5.5	4.6	4.6	3.7
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: P164930

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	202.8	201.9	201.0	199.2	199.2	197.4	196.4	195.5	190.9	180.8	172.6
5°	212.9	211.1	209.3	206.5	204.7	201.9	200.1	197.4	187.2	168.0	151.4
7.5°	227.6	224.0	221.2	215.7	212.9	209.3	206.5	201.9	185.4	156.0	133.1
10°	245.1	238.7	234.0	227.6	222.1	217.5	212.9	206.5	183.5	143.2	116.5
12.5°	266.2	258.9	249.7	242.3	235.0	228.5	222.1	213.9	180.8	132.2	103.7
15°	287.3	276.3	269.8	259.7	249.7	240.5	231.3	224.0	181.8	120.2	92.7
17.5°	311.1	300.2	286.4	275.3	264.4	252.4	241.4	226.7	177.1	111.1	84.4
20°	334.1	318.5	305.7	291.9	276.3	261.6	247.8	235.0	173.5	101.9	77.1
22.5°	358.9	340.5	324.0	306.6	287.3	270.8	254.2	237.7	167.0	93.6	70.7
25°	389.2	368.0	344.2	323.1	302.9	282.7	261.6	241.4	160.6	86.3	66.1
27.5°	425.9	398.4	374.5	347.9	319.4	293.7	270.8	248.8	154.2	80.8	61.5
30°	472.7	440.6	406.6	372.7	342.3	313.0	280.9	253.3	147.8	75.2	56.9
32.5°	535.1	494.7	453.4	414.0	373.6	335.9	302.0	266.2	144.1	70.7	52.3
35°	617.8	565.4	514.9	465.4	416.7	370.8	326.7	286.4	144.1	65.2	46.8
37.5°	695.7	635.2	570.9	509.4	451.6	398.4	346.0	297.4	136.8	60.6	42.3
40°	780.2	707.7	632.4	559.9	490.2	424.1	364.4	308.4	130.3	55.1	37.6
42.5°	909.6	817.9	719.6	635.2	551.6	469.9	395.6	329.5	122.1	49.6	33.1
45°	1079.4	962.8	847.2	744.4	637.9	537.9	449.8	368.0	120.2	45.0	28.4
47.5°	1261.1	1123.5	987.6	856.4	731.6	615.0	509.4	411.2	120.2	40.4	24.8
50°	1442.0	1269.5	1124.4	972.0	831.6	693.9	568.1	456.2	121.2	36.7	20.2
52.5°	1605.4	1420.9	1258.4	1082.2	927.0	767.4	630.6	500.3	119.3	32.1	16.5
55°	1832.1	1615.5	1427.3	1232.7	1051.0	871.1	716.0	566.3	120.2	28.4	13.8
57.5°	2249.7	1995.5	1768.8	1513.6	1304.3	1072.1	883.9	702.2	131.3	23.9	10.1
60°	2849.1	2518.7	2200.2	1889.0	1622.8	1346.5	1102.3	888.5	154.2	19.3	7.4
62.5°	3252.0	2819.7	2439.7	2096.4	1787.1	1498.0	1231.8	988.5	169.8	15.6	4.6
63°	3293.3	2846.4	2464.5	2110.2	1794.5	1505.3	1237.3	995.9	170.7	14.7	4.6
65°	3371.4	2892.2	2478.3	2112.9	1787.1	1495.3	1233.6	995.0	172.6	11.9	3.7
67.5°	3282.3	2821.6	2398.4	2034.0	1722.8	1435.6	1187.7	958.3	171.6	8.2	2.7
70°	2935.4	2553.6	2181.8	1842.2	1559.5	1299.7	1081.3	873.8	157.9	5.5	1.8
72.5°	2155.2	1895.4	1607.2	1362.1	1174.9	975.7	832.5	656.3	122.1	3.7	0.9
75°	638.8	581.9	489.2	431.4	380.9	314.8	280.0	218.4	62.4	1.8	0.0
77.5°	127.6	115.7	103.7	94.5	89.0	76.2	72.5	59.6	25.7	0.9	0.0
80°	67.0	55.1	46.8	41.3	35.8	29.4	24.8	20.2	4.6	0.0	0.0
82.5°	64.3	43.1	31.2	25.7	22.0	17.4	13.8	10.1	2.7	0.0	0.0
85°	23.9	18.3	13.8	11.0	9.2	8.2	6.4	5.5	0.0	0.0	0.0
87.5°	3.7	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.0	0.0	0.0
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: P164930

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	193.7	193.7	193.7	193.7	193.7	193.7	193.7
2.5°	164.3	157.0	153.3	148.7	148.7	147.8	149.6
5°	136.8	126.7	119.3	113.8	114.7	112.0	112.9
7.5°	115.7	105.6	99.1	95.5	94.5	93.6	93.6
10°	100.1	90.9	85.3	82.6	81.7	81.7	81.7
12.5°	89.0	79.9	75.2	73.4	73.4	72.5	72.5
15°	79.9	72.5	67.9	66.1	66.1	65.2	66.1
17.5°	72.5	65.2	61.5	59.6	59.6	58.7	58.7
20°	66.1	59.6	56.0	53.2	53.2	52.3	53.2
22.5°	60.6	54.2	49.6	47.7	46.8	45.9	46.8
25°	55.1	48.7	44.0	41.3	40.4	40.4	39.5
27.5°	50.5	44.0	38.6	35.8	34.9	34.9	33.9
30°	45.9	38.6	33.1	30.3	29.4	29.4	29.4
32.5°	41.3	33.1	28.4	25.7	24.8	24.8	24.8
35°	36.7	28.4	23.9	21.1	20.2	20.2	20.2
37.5°	31.2	23.9	18.3	16.5	15.6	14.7	14.7
40°	26.6	18.3	13.8	11.9	10.1	10.1	10.1
42.5°	22.0	14.7	10.1	7.4	6.4	5.5	6.4
45°	18.3	11.0	6.4	3.7	2.7	2.7	2.7
47.5°	14.7	7.4	2.7	0.9	0.9	0.9	0.9
50°	11.0	4.6	0.9	0.0	0.0	0.9	0.9
52.5°	8.2	2.7	0.0	0.0	0.0	0.0	0.0
55°	4.6	0.9	0.0	0.0	0.0	0.0	0.0
57.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)