

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: P165125

Luminaire Tested: **VTS-E02-LED-E1-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165125
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-E02-LED-E1-SL3-HSS-8030
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2891.7 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

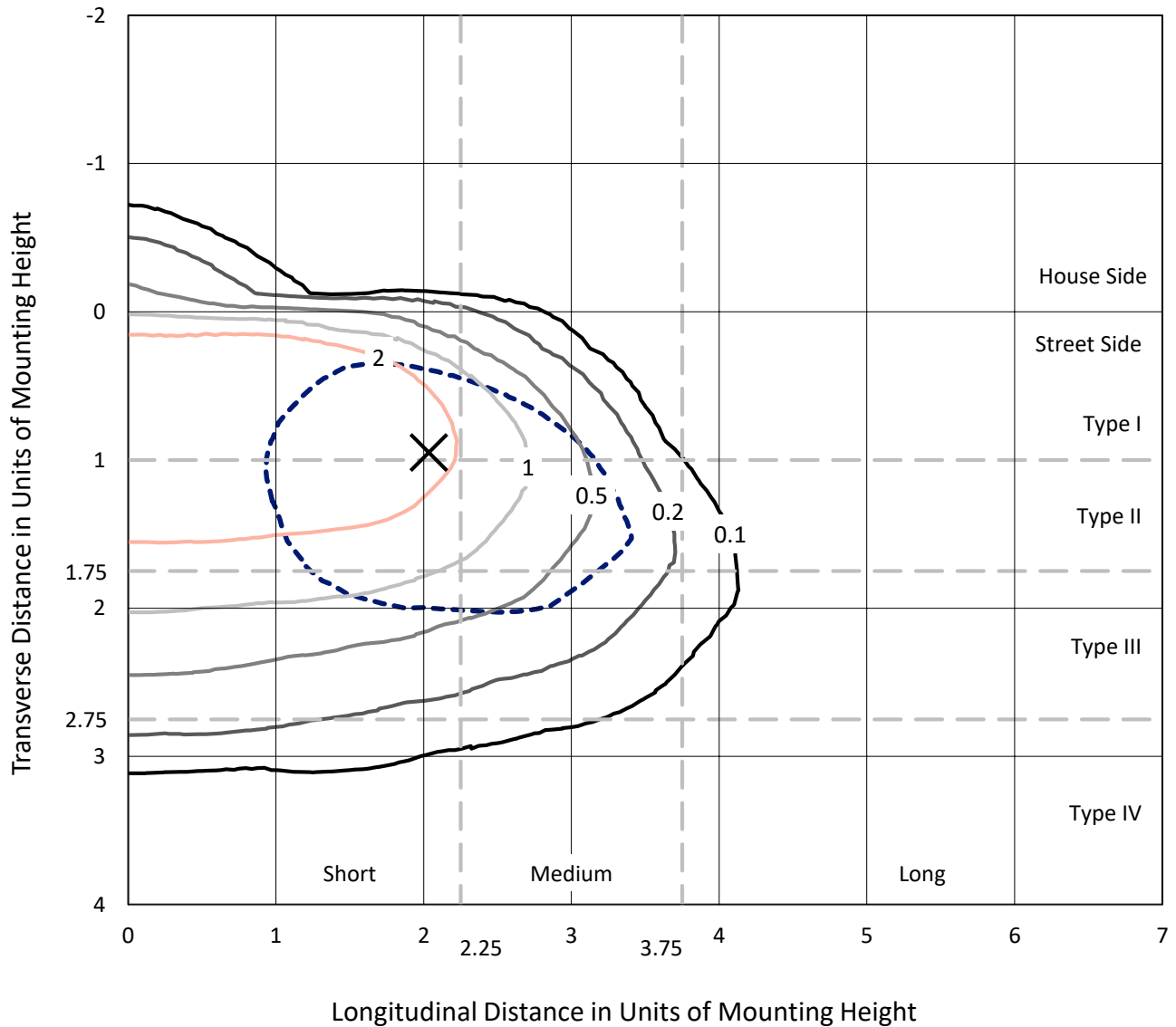
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P165125

CATALOG NUMBER: VTS-E02-LED-E1-SL3-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

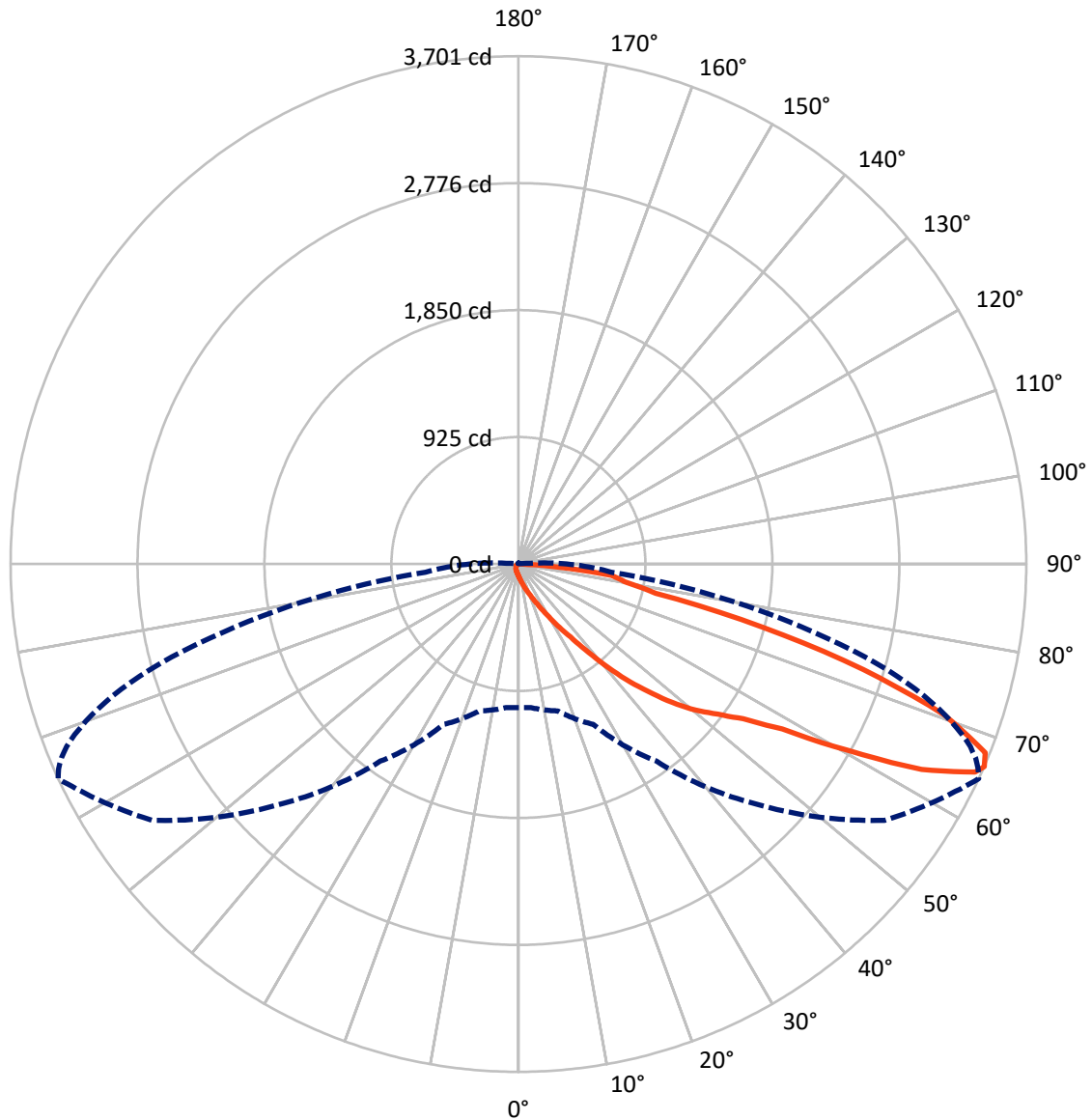
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165125
CATALOG NUMBER: VTS-E02-LED-E1-SL3-HSS-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P165125

CATALOG NUMBER: VTS-E02-LED-E1-SL3-HSS-8030

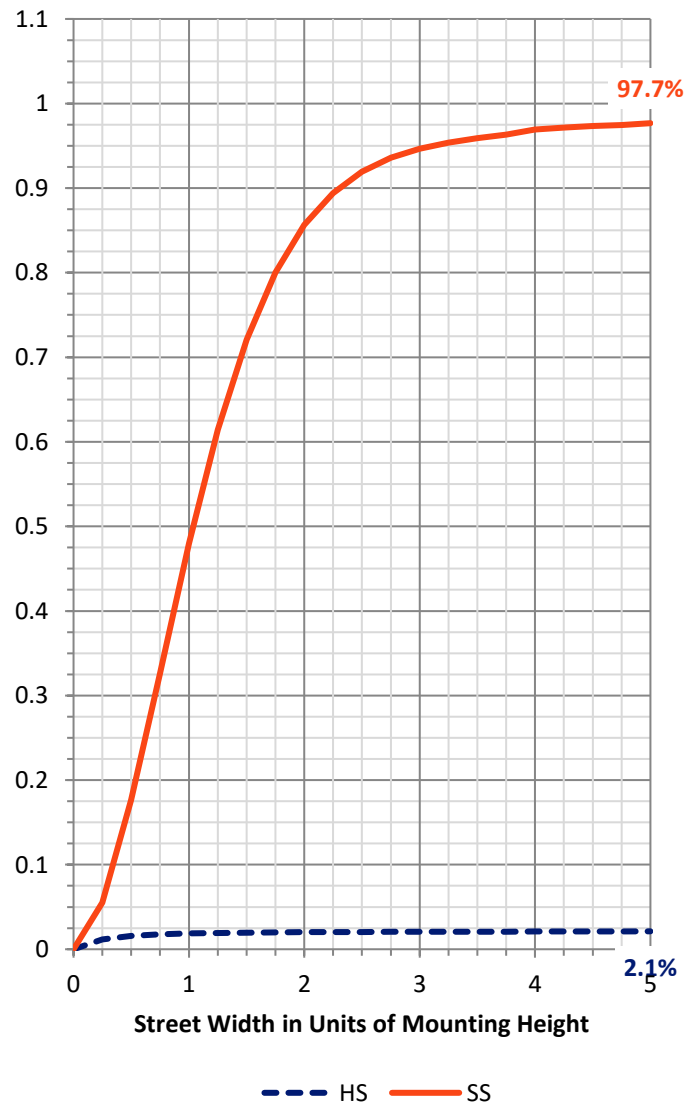
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	62.7	0.0	62.7
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2829.0	0.0	2829.0
	% Fixture	97.8	0.0	97.8
Total	Lumens	2891.7	0.0	2891.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.3
10°-20°	41.4	1.4
20°-30°	89.4	3.1
30°-40°	190.8	6.6
40°-50°	422.0	14.6
50°-60°	715.2	24.7
60°-70°	954.3	33.0
70°-80°	420.4	14.5
80°-90°	48.4	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°	2891.7	100.0
0°-180°	2891.7	100.0



REPORT NUMBER: P165125

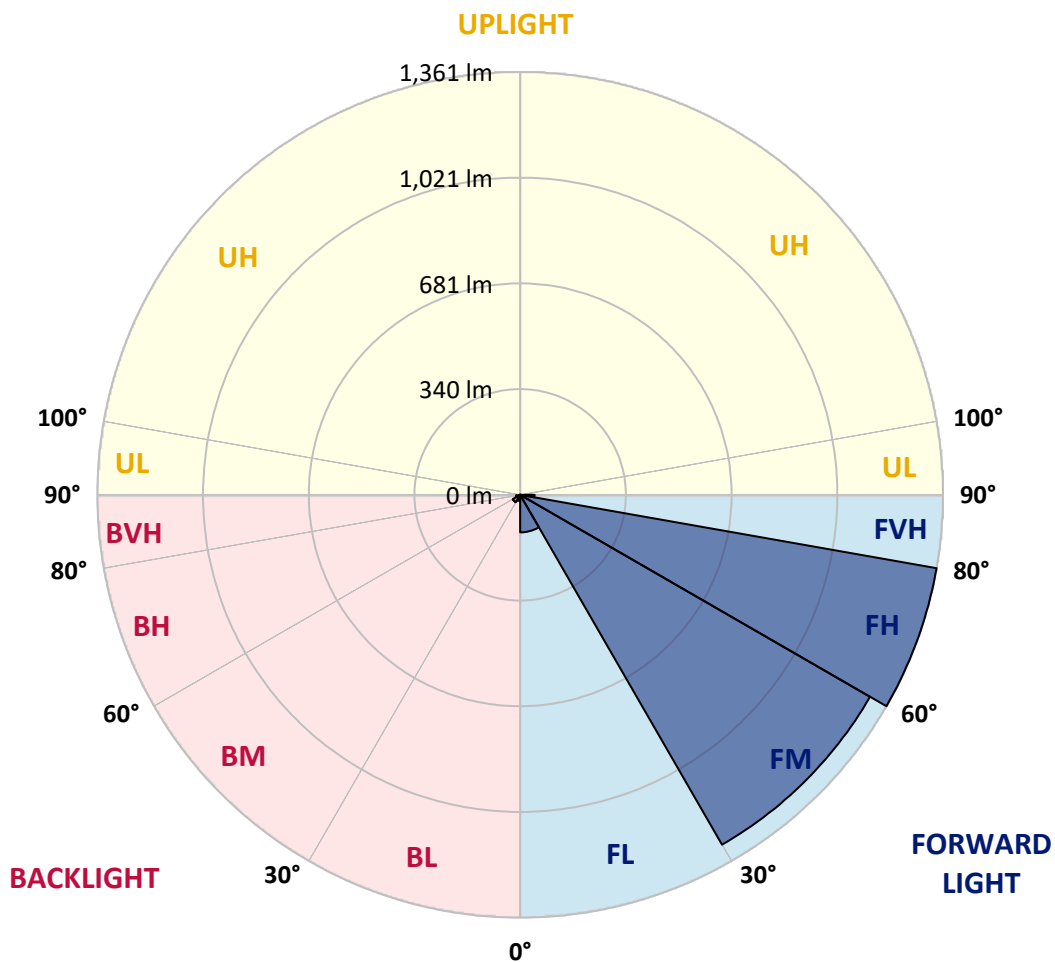
CATALOG NUMBER: VTS-E02-LED-E1-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	120.8	4.2			
FM	(30°-60°)	1300.5	45.0			
FH	(60°-80°)	1361.3	47.1			G1/1800
FVH	(80°-90°)	46.5	1.6			G1/100
BL	(0°-30°)	19.8	0.7	B0/110		
BM	(30°-60°)	27.5	1.0	B0/220		
BH	(60°-80°)	13.4	0.5	B0/110		G0/110
BVH	(80°-90°)	1.9	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-G1

Type III Short





REPORT NUMBER: P165125

CATALOG NUMBER: VTS-E02-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	110.1	109.5	107.3	107.3	103.9	101.8	98.9	96.2	96.2	95.6	95.1
5°	145.6	142.3	141.8	135.6	130.6	123.4	116.7	107.9	106.7	105.6	105.1
7.5°	185.1	184.6	179.6	172.3	162.4	149.0	135.6	121.2	119.0	117.9	115.6
10°	236.3	233.5	226.8	214.6	199.6	181.8	160.1	137.3	134.5	132.3	131.2
12.5°	285.2	280.2	276.3	260.7	241.8	215.7	189.6	156.8	154.6	151.8	147.3
15°	330.8	326.3	319.7	306.3	285.2	252.4	221.8	181.8	176.2	172.3	169.0
17.5°	366.4	363.6	355.8	340.8	318.0	289.1	252.4	207.4	202.9	197.9	191.8
20°	400.3	396.4	384.2	363.6	339.1	316.9	288.5	240.7	234.6	228.5	221.8
22.5°	432.5	428.6	408.6	374.7	348.6	339.1	329.1	278.5	269.1	264.1	257.4
25°	477.6	469.2	438.1	384.2	349.1	356.4	373.6	327.4	318.6	311.3	300.8
27.5°	538.2	527.0	478.1	398.1	351.3	375.3	424.7	386.9	377.5	369.1	357.5
30°	606.5	599.3	540.9	431.4	367.5	403.1	482.0	462.5	451.4	441.4	427.5
32.5°	675.5	665.5	607.6	494.8	410.8	457.0	553.7	550.4	535.9	526.5	511.5
35°	736.1	731.1	688.3	598.7	509.8	551.5	649.3	653.2	640.5	630.4	613.8
37.5°	777.2	777.2	768.9	710.5	667.1	698.3	790.0	790.5	777.8	755.0	746.6
40°	798.3	804.4	834.5	845.6	843.3	883.4	974.6	964.5	954.0	942.3	914.5
42.5°	841.7	847.2	911.2	987.9	1037.9	1090.7	1153.6	1150.2	1137.5	1116.3	1090.7
45°	915.1	922.3	998.5	1120.2	1223.0	1298.1	1338.1	1322.6	1309.8	1289.8	1276.4
47.5°	1008.5	1022.4	1108.5	1259.2	1383.2	1507.1	1548.8	1507.7	1496.6	1481.0	1459.3
50°	1108.0	1121.3	1213.1	1385.4	1525.5	1673.4	1742.9	1673.4	1657.3	1652.2	1627.8
52.5°	1194.1	1205.3	1293.7	1482.7	1634.4	1807.9	1909.1	1817.3	1805.7	1789.0	1771.2
55°	1245.3	1254.2	1337.0	1529.4	1708.4	1929.1	2069.8	1989.2	1971.9	1965.2	1939.7
57.5°	1262.5	1271.4	1345.9	1535.5	1748.4	2039.7	2264.9	2267.7	2247.1	2223.2	2215.4
60°	1262.5	1272.5	1335.4	1520.5	1787.3	2157.6	2525.1	2756.9	2712.4	2708.0	2679.6
62.5°	1210.3	1219.7	1283.1	1474.4	1839.6	2316.6	2887.5	3296.7	3283.9	3255.0	3208.3
65°	1096.9	1102.4	1164.7	1356.5	1819.6	2462.8	3201.6	3655.8	3635.3	3578.6	3518.5
66°	1045.7	1050.2	1108.5	1289.2	1754.0	2482.8	3257.2	3700.9	3667.0	3619.1	3551.3
67.5°	971.8	979.6	1020.7	1164.1	1596.7	2413.3	3222.2	3669.2	3639.7	3581.9	3514.1
70°	648.8	643.2	788.3	893.4	1216.4	1966.4	2890.9	3294.5	3295.0	3267.8	3240.6
72.5°	308.0	311.3	353.6	549.8	796.1	1313.7	2301.0	2629.6	2667.4	2618.5	2584.5
75°	221.3	226.3	251.8	336.3	474.8	788.3	1491.6	1839.0	1840.1	1753.4	1676.2
77.5°	64.5	67.3	94.5	207.4	355.8	532.0	856.7	1022.4	998.5	936.2	877.8
80°	26.7	26.7	27.8	66.2	142.9	361.4	599.3	787.2	784.4	760.5	726.1
82.5°	10.0	10.6	13.3	27.2	33.9	89.0	399.7	683.3	681.6	647.7	623.2
85°	1.1	1.1	3.3	11.7	12.8	16.7	80.0	301.3	299.7	301.3	264.1
87.5°	0.0	0.0	0.5	1.1	1.7	2.2	3.3	11.7	12.8	12.2	11.1
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: P165125

CATALOG NUMBER: VTS-E02-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	95.1	94.0	94.0	93.4	93.4	93.4	92.8	92.3	92.3	91.7	91.2
5°	103.9	102.8	102.3	101.2	100.6	100.1	98.9	98.4	97.3	96.7	96.2
7.5°	114.5	112.3	111.7	110.1	108.4	107.3	106.2	104.5	103.4	101.2	100.6
10°	127.9	125.1	122.9	120.6	119.0	116.2	114.5	112.3	110.1	108.4	106.7
12.5°	145.1	141.2	137.9	135.6	131.8	128.4	125.1	123.4	119.0	116.7	114.0
15°	164.0	159.5	155.7	151.2	148.4	142.9	138.4	133.4	131.2	127.3	122.9
17.5°	188.4	181.2	175.1	170.7	165.1	159.5	154.6	149.6	142.9	138.4	132.9
20°	214.6	208.5	200.1	192.4	185.7	179.0	171.8	165.1	159.0	151.8	145.1
22.5°	248.0	239.1	229.1	221.3	212.4	205.2	195.1	186.3	176.2	166.8	159.0
25°	290.2	278.5	269.1	258.0	247.4	236.3	224.0	212.9	200.1	191.2	177.9
27.5°	342.5	331.4	318.6	304.1	293.5	276.9	260.7	246.9	231.8	217.9	202.9
30°	409.2	393.1	379.7	365.8	344.7	328.5	309.6	290.8	270.2	256.3	233.5
32.5°	489.2	472.0	452.0	432.0	412.5	389.7	366.4	343.0	320.2	294.7	271.3
35°	587.1	566.5	543.7	522.0	492.0	467.5	438.1	405.8	380.3	350.8	321.3
37.5°	716.6	682.7	662.7	639.9	599.3	565.9	533.1	500.9	455.9	424.7	383.0
40°	878.9	858.9	826.1	789.4	752.7	708.8	664.4	621.5	569.3	525.9	477.6
42.5°	1069.6	1040.2	1006.8	954.0	916.7	865.0	814.5	757.7	693.8	638.2	581.5
45°	1248.6	1213.6	1188.0	1135.2	1096.3	1035.1	974.0	914.0	840.0	768.3	702.7
47.5°	1442.1	1413.2	1370.9	1328.1	1288.7	1219.7	1153.6	1080.7	1002.9	917.9	832.8
50°	1612.2	1589.4	1560.5	1508.8	1464.9	1407.1	1329.3	1249.7	1151.3	1066.8	970.1
52.5°	1756.8	1739.0	1698.4	1661.7	1622.2	1567.7	1498.3	1422.1	1315.9	1223.0	1113.0
55°	1927.4	1914.6	1879.1	1856.3	1821.3	1769.0	1704.0	1633.4	1521.0	1419.9	1295.3
57.5°	2207.1	2197.1	2165.9	2156.5	2122.0	2076.4	1996.4	1920.8	1789.6	1663.9	1521.6
60°	2670.2	2650.2	2604.6	2581.2	2508.4	2447.2	2343.3	2239.3	2080.9	1920.8	1749.5
62.5°	3166.0	3109.9	3023.2	2948.7	2845.3	2739.1	2600.1	2441.1	2255.4	2065.3	1868.5
65°	3433.5	3337.8	3228.3	3109.9	2975.9	2819.7	2644.6	2453.9	2254.3	2053.6	1845.7
66°	3464.0	3356.2	3240.0	3108.2	2959.3	2793.0	2615.1	2415.0	2207.6	2011.9	1804.0
67.5°	3425.7	3312.8	3190.0	3043.8	2882.5	2710.2	2523.4	2315.5	2115.9	1917.4	1715.1
70°	3157.2	3044.8	2935.3	2781.4	2609.6	2436.1	2259.3	2027.0	1837.9	1655.6	1475.5
72.5°	2521.2	2445.0	2336.6	2204.8	2037.5	1834.0	1686.7	1478.8	1314.8	1138.0	998.5
75°	1575.5	1468.2	1334.2	1166.4	1038.5	873.4	787.2	629.3	535.9	454.2	375.3
77.5°	805.5	725.0	631.0	536.5	445.9	355.8	275.2	194.6	131.2	91.2	67.8
80°	665.5	594.3	516.5	430.3	350.3	271.9	195.7	133.4	85.1	55.6	43.3
82.5°	549.8	489.8	420.3	340.2	270.8	213.5	148.4	96.7	60.0	38.9	30.6
85°	234.1	212.4	164.0	130.1	97.8	72.3	50.6	33.9	23.9	19.4	17.8
87.5°	10.0	11.1	10.6	8.3	6.1	6.1	5.6	4.5	4.5	4.5	4.5
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: P165125

CATALOG NUMBER: VTS-E02-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	91.2	90.6	90.1	90.1	89.5	89.0	85.6	82.8	79.5	77.3	75.0
5°	95.1	94.5	93.4	92.8	91.7	91.2	84.0	77.8	72.8	68.9	66.2
7.5°	98.9	98.4	96.7	95.1	94.5	93.4	81.7	73.9	67.3	62.8	60.0
10°	103.9	102.3	100.6	98.4	96.7	95.1	79.5	69.5	62.3	58.4	55.6
12.5°	111.2	108.4	105.6	102.8	100.6	97.8	78.4	65.6	58.4	53.9	51.1
15°	119.5	115.6	112.3	109.0	105.1	102.3	76.2	62.3	55.0	50.6	47.3
17.5°	127.3	122.9	117.9	112.9	109.0	105.1	73.9	58.9	51.7	47.3	43.9
20°	138.4	131.8	125.7	119.5	114.0	109.0	70.6	55.6	48.9	43.9	40.6
22.5°	150.7	142.9	135.1	126.8	119.5	112.9	67.8	52.8	46.1	41.2	37.2
25°	166.2	156.8	146.2	135.6	127.3	118.4	65.1	50.0	43.3	38.4	34.5
27.5°	187.9	174.6	162.9	149.6	136.8	126.8	62.8	47.8	40.6	35.6	31.7
30°	217.4	197.9	179.6	165.1	150.1	135.6	60.6	45.0	38.4	32.8	28.4
32.5°	250.2	227.4	206.2	184.6	165.7	149.0	58.4	42.8	35.6	30.0	26.1
35°	290.8	261.8	233.5	208.5	185.7	163.4	56.1	40.6	33.4	27.2	23.4
37.5°	349.1	313.0	275.7	243.5	214.0	184.6	54.5	38.4	30.6	24.5	20.6
40°	429.2	382.5	336.9	293.0	254.6	217.9	52.3	36.1	28.4	22.2	18.3
42.5°	515.9	459.2	399.2	349.7	296.9	250.7	50.0	33.9	26.1	20.0	16.1
45°	623.8	553.2	480.3	413.0	348.6	289.1	47.8	31.7	23.4	17.8	13.9
47.5°	741.6	651.6	569.3	484.8	408.1	336.9	45.0	30.0	21.1	15.6	12.2
50°	862.8	767.8	663.8	567.6	476.4	384.7	42.3	27.2	18.9	13.9	10.0
52.5°	993.4	881.2	775.0	655.4	549.3	447.5	39.5	25.0	17.2	12.2	8.3
55°	1159.7	1034.1	909.5	775.5	647.7	520.4	36.7	22.2	15.0	10.6	6.7
57.5°	1368.7	1219.7	1066.8	915.6	760.5	616.0	34.5	19.4	12.8	8.9	5.6
60°	1566.1	1392.1	1206.9	1032.9	857.8	689.4	31.1	17.2	11.1	7.2	5.6
62.5°	1668.4	1469.9	1270.3	1078.5	891.7	715.5	27.8	14.4	9.5	6.1	5.0
65°	1643.4	1441.0	1247.5	1054.0	871.2	698.8	24.5	12.8	8.3	5.6	5.0
66°	1607.2	1407.1	1212.5	1028.5	853.9	681.0	22.8	12.2	7.8	5.6	4.5
67.5°	1528.3	1334.8	1149.1	977.9	806.7	647.1	20.6	11.1	7.2	5.0	4.5
70°	1305.4	1129.7	981.2	828.9	689.4	545.4	16.7	9.5	6.1	4.5	4.5
72.5°	863.9	744.4	645.5	555.4	464.2	360.2	13.9	7.8	5.0	4.5	3.9
75°	325.8	294.7	253.0	227.4	198.5	174.0	11.1	5.0	3.9	3.9	3.9
77.5°	57.8	53.4	47.3	43.3	40.0	36.7	8.9	3.3	3.3	3.9	3.9
80°	38.9	36.1	32.8	30.0	27.8	25.0	6.1	2.8	3.3	3.3	3.9
82.5°	27.8	26.1	24.5	22.2	20.6	18.3	3.9	2.8	3.3	3.3	3.3
85°	16.7	15.6	14.4	13.3	11.7	11.1	2.8	2.8	2.8	3.3	3.3
87.5°	4.5	3.9	4.5	4.5	3.3	3.9	2.2	2.2	2.2	2.8	2.8
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: P165125

CATALOG NUMBER: VTS-E02-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	87.3	87.3	87.3	87.3	87.3
2.5°	73.9	73.9	72.8	74.5	74.5
5°	63.9	63.9	63.4	63.9	63.9
7.5°	58.4	57.8	57.8	57.8	58.4
10°	53.4	52.8	52.8	52.8	52.8
12.5°	48.9	48.4	47.8	48.4	48.4
15°	45.0	43.9	43.9	43.9	43.9
17.5°	41.7	40.6	40.0	40.0	40.0
20°	38.4	36.7	36.7	36.7	36.7
22.5°	35.0	33.4	33.4	33.4	33.4
25°	31.7	30.0	30.0	30.0	30.0
27.5°	28.9	27.2	27.2	27.2	27.2
30°	25.6	24.5	24.5	25.0	24.5
32.5°	23.4	21.7	21.7	22.2	22.2
35°	20.6	19.4	19.4	19.4	19.4
37.5°	17.8	16.7	16.7	16.7	16.7
40°	15.6	14.4	13.9	14.4	14.4
42.5°	13.3	12.2	11.7	11.7	11.7
45°	11.7	10.0	9.5	10.0	10.0
47.5°	9.5	8.3	8.3	8.9	8.9
50°	7.2	7.2	7.8	8.9	8.9
52.5°	6.7	6.7	7.8	8.9	8.9
55°	6.1	6.7	7.8	8.3	8.9
57.5°	5.6	6.7	7.8	8.3	8.3
60°	5.6	6.1	7.2	8.3	8.3
62.5°	5.0	5.6	6.7	7.8	7.8
65°	5.0	5.6	6.7	7.8	7.8
66°	5.0	5.6	6.7	7.8	7.8
67.5°	5.0	5.6	6.7	7.8	7.8
70°	5.0	5.6	6.7	7.2	7.2
72.5°	4.5	5.0	6.1	7.2	7.2
75°	4.5	5.0	6.1	7.2	7.2
77.5°	4.5	5.0	6.1	7.2	7.2
80°	4.5	5.0	6.1	6.7	7.2
82.5°	3.9	5.0	5.6	6.7	6.7
85°	3.9	4.5	5.6	6.1	6.7
87.5°	3.3	3.9	4.5	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)