

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: STREETWORKS

Report Number: P157340

Luminaire Tested: **VST-E04-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157340
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E04-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12795.4 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 97.2
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: 28.75 FT

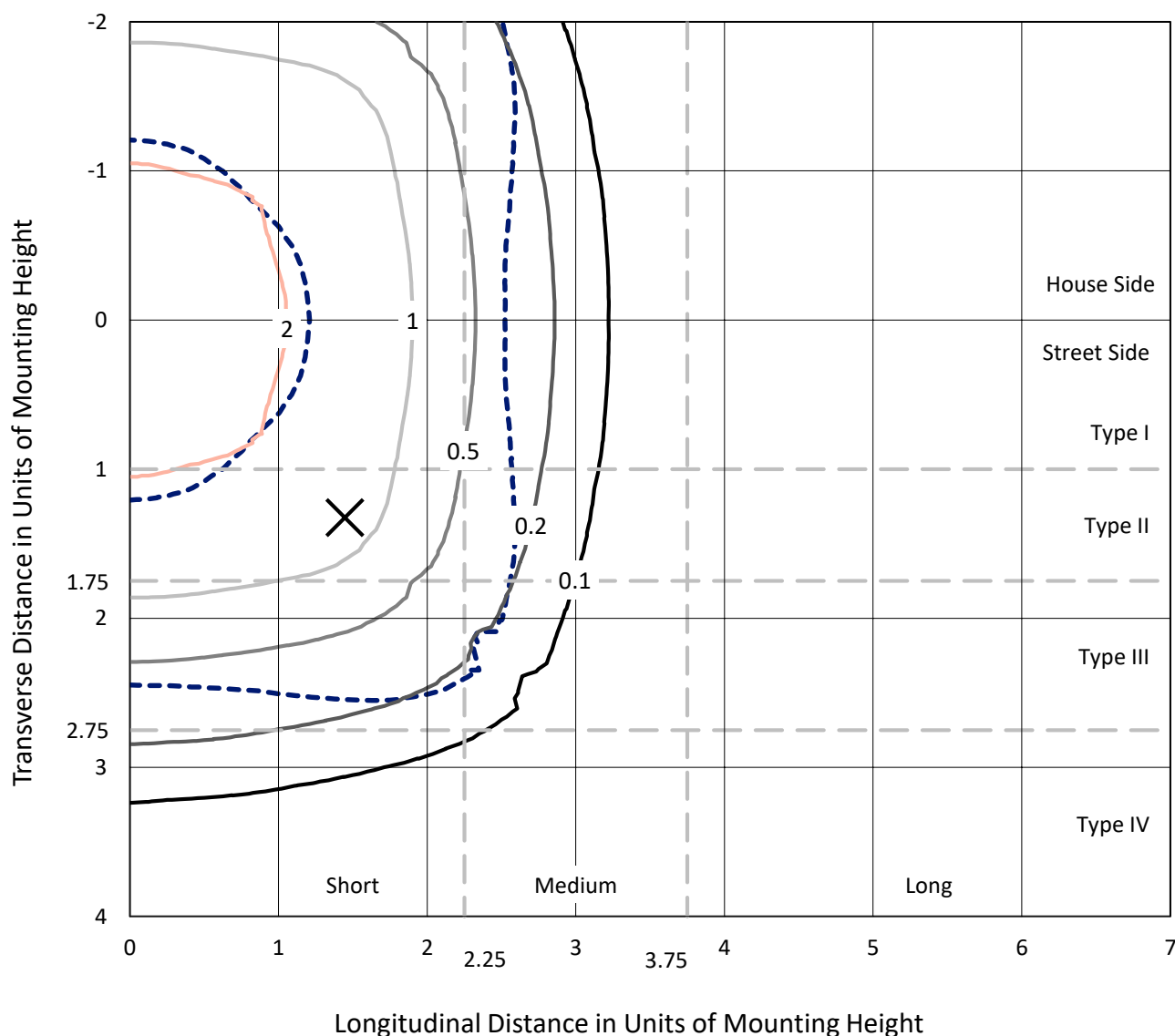


REPORT NUMBER: P157340

CATALOG NUMBER: VST-E04-LED-E-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

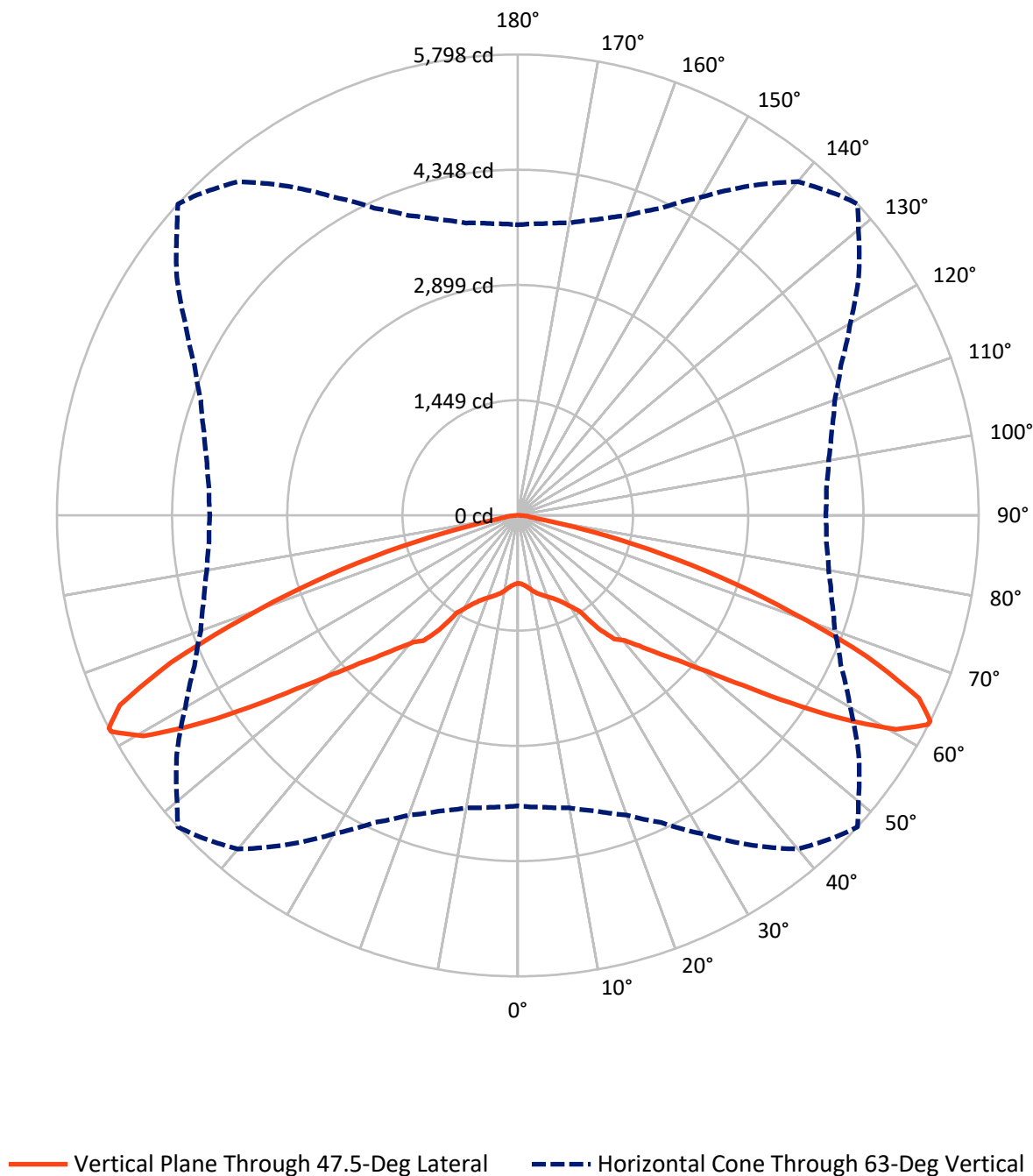


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157340

CATALOG NUMBER: VST-E04-LED-E-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P157340

CATALOG NUMBER: VST-E04-LED-E-U-5MQ

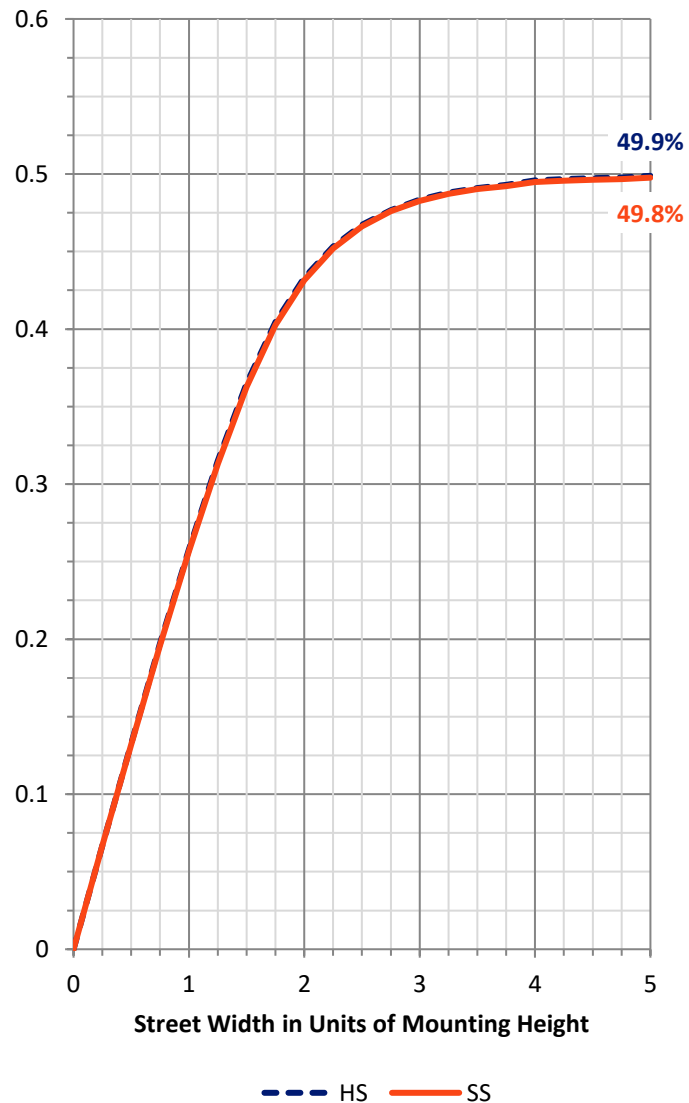
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6397.7	0.0	6397.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6397.7	0.0	6397.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12795.4	0.0	12795.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	0.7
10°-20°	291.6	2.3
20°-30°	557.7	4.4
30°-40°	1066.9	8.3
40°-50°	1846.1	14.4
50°-60°	3315.5	25.9
60°-70°	4031.7	31.5
70°-80°	1456.0	11.4
80°-90°	144.2	1.1
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°	12795.4	100.0
0°-180°	12795.4	100.0

Coefficient of Utilization



REPORT NUMBER: P157340

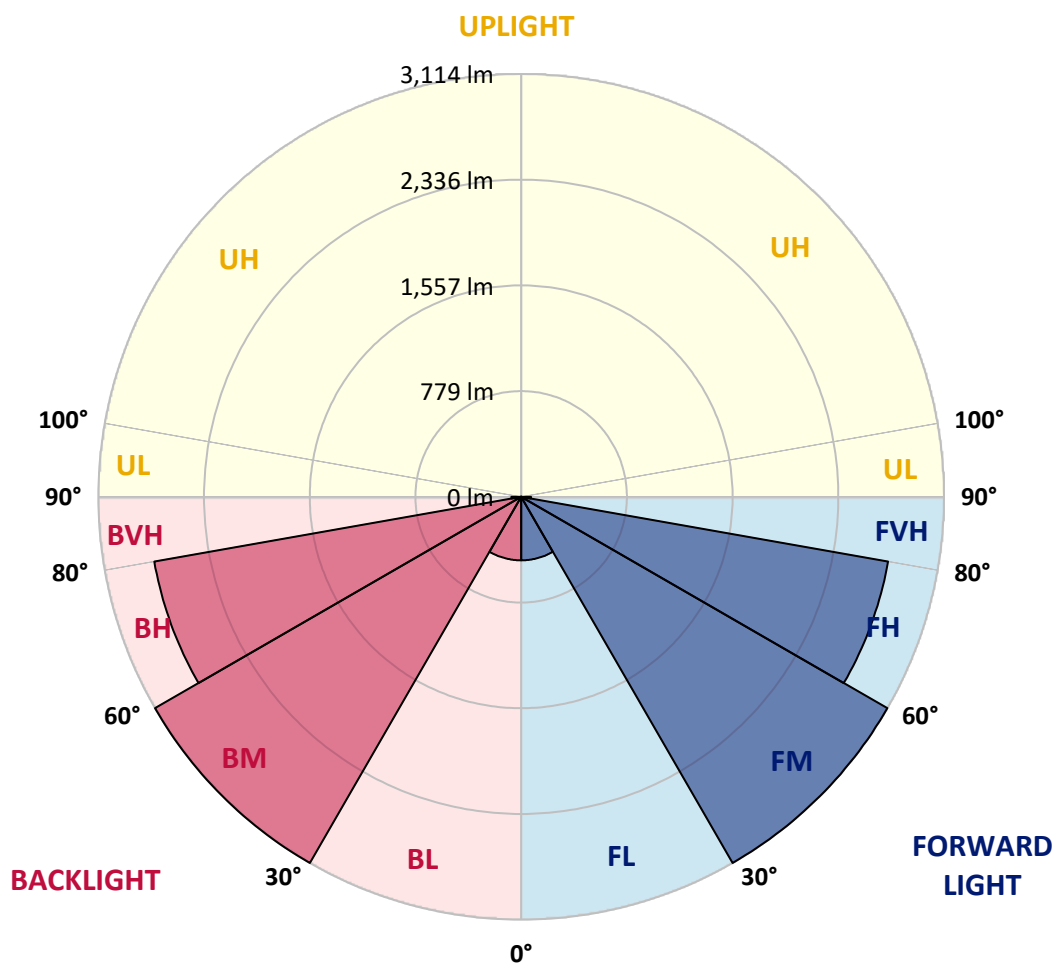
CATALOG NUMBER: VST-E04-LED-E-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.5	3.7			
FM	(30°-60°)	3114.2	24.3			
FH	(60°-80°)	2743.8	21.4			G2/5000
FVH	(80°-90°)	72.1	0.6			G1/100
BL	(0°-30°)	467.5	3.7	B1/500		
BM	(30°-60°)	3114.2	24.3	B3/5000		
BH	(60°-80°)	2743.8	21.4	B4/5000		G2/5000
BVH	(80°-90°)	72.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P157340

CATALOG NUMBER: VST-E04-LED-E-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	854.4	854.4	854.4	854.4	854.4	854.4	854.4	854.4	854.4	854.4	854.4
2.5°	860.0	858.4	859.2	860.0	859.2	858.4	858.4	858.4	860.0	858.4	862.4
5°	876.8	875.2	876.0	876.0	876.0	874.4	874.4	874.4	873.6	874.4	883.2
7.5°	908.8	906.4	905.6	907.2	905.6	904.8	904.0	904.0	902.4	902.4	913.6
10°	947.2	944.0	945.6	946.4	944.0	942.4	942.4	942.4	940.0	939.2	953.6
12.5°	989.6	988.0	988.0	986.4	985.6	984.0	983.2	984.0	980.8	980.8	995.2
15°	1030.4	1027.2	1028.0	1025.6	1024.0	1022.4	1021.6	1020.8	1019.2	1019.2	1028.0
17.5°	1068.0	1065.6	1064.8	1062.4	1060.0	1057.6	1056.0	1055.2	1052.8	1052.8	1060.8
20°	1107.2	1104.8	1103.2	1099.2	1095.2	1092.8	1089.6	1088.0	1084.8	1085.6	1094.4
22.5°	1152.0	1148.0	1144.8	1141.6	1134.4	1129.6	1125.6	1122.4	1120.8	1120.8	1132.8
25°	1212.0	1209.6	1204.8	1194.4	1185.6	1178.4	1172.0	1168.8	1165.6	1164.0	1182.4
27.5°	1285.6	1283.2	1276.8	1266.4	1254.4	1242.4	1235.2	1229.6	1225.6	1223.2	1249.6
30°	1383.2	1379.2	1373.6	1356.8	1346.4	1328.0	1320.0	1312.0	1303.2	1305.6	1336.8
32.5°	1574.4	1568.8	1551.2	1532.8	1500.8	1476.0	1450.4	1431.2	1412.8	1410.4	1444.0
35°	1748.0	1745.6	1742.4	1729.6	1717.6	1702.4	1690.4	1670.4	1653.6	1649.6	1744.0
37.5°	1841.6	1847.2	1842.4	1840.8	1840.8	1848.0	1870.4	1892.8	1908.8	1918.4	1971.2
40°	1984.8	1984.8	1979.2	1976.0	1969.6	1979.2	1988.8	2005.6	2012.8	2013.6	2067.2
42.5°	2147.2	2148.0	2142.4	2132.8	2129.6	2138.4	2151.2	2167.2	2176.8	2179.2	2241.6
45°	2328.0	2325.6	2320.8	2317.6	2320.0	2328.0	2343.2	2374.4	2388.8	2400.0	2468.0
47.5°	2524.0	2540.0	2526.4	2528.8	2528.8	2553.6	2588.0	2613.6	2636.8	2658.4	2730.4
50°	2780.8	2783.2	2785.6	2792.8	2797.6	2830.4	2873.6	2904.0	2937.6	2965.6	3083.2
52.5°	3124.0	3119.2	3131.2	3139.2	3166.4	3184.0	3256.0	3294.4	3340.8	3376.8	3548.8
55°	3534.4	3532.0	3549.6	3556.0	3592.0	3635.2	3715.2	3799.2	3878.4	3922.4	4157.6
57.5°	3828.8	3835.2	3865.6	3908.0	3978.4	4070.4	4189.6	4375.2	4525.6	4573.6	4832.8
60°	3893.6	3914.4	3960.0	4044.8	4165.6	4336.8	4571.2	4855.2	5130.4	5222.4	5465.6
62.5°	3712.0	3736.0	3803.2	3904.8	4062.4	4316.0	4654.4	5055.2	5464.0	5668.8	5791.2
63°	3654.4	3684.0	3734.4	3852.0	4012.0	4262.4	4622.4	5054.4	5478.4	5701.6	5797.6
65°	3384.0	3389.6	3464.8	3582.4	3762.4	4022.4	4385.6	4884.8	5355.2	5612.8	5546.4
67.5°	2912.0	2935.2	2998.4	3116.8	3292.0	3562.4	3956.8	4418.4	4832.0	5037.6	4740.8
70°	2352.8	2351.2	2429.6	2524.8	2679.2	2916.8	3262.4	3679.2	4007.2	4156.8	3660.0
72.5°	1680.8	1639.2	1696.8	1802.4	1928.8	2118.4	2392.0	2716.0	3009.6	3139.2	2676.0
75°	765.6	754.4	805.6	910.4	1038.4	1207.2	1432.0	1712.0	1993.6	2145.6	1704.8
77.5°	257.6	260.8	280.8	318.4	387.2	472.0	612.0	791.2	1019.2	1169.6	800.0
80°	172.8	177.6	184.0	189.6	197.6	210.4	240.8	287.2	357.6	432.8	252.8
82.5°	141.6	147.2	161.6	168.0	172.8	176.8	179.2	182.4	182.4	184.0	160.0
85°	101.6	111.2	130.4	142.4	147.2	150.4	154.4	159.2	152.0	145.6	124.0
87.5°	35.2	48.0	70.4	77.6	83.2	84.0	89.6	99.2	94.4	76.8	37.6
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: P157340

CATALOG NUMBER: VST-E04-LED-E-U-5MQ

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	854.4	854.4	854.4	854.4	854.4	854.4	854.4	854.4	854.4
2.5°	858.4	857.6	858.4	859.2	859.2	859.2	860.0	860.8	860.8
5°	874.4	875.2	874.4	875.2	875.2	876.0	876.0	877.6	877.6
7.5°	901.6	903.2	902.4	904.0	904.0	905.6	904.8	907.2	907.2
10°	938.4	940.0	941.6	942.4	941.6	943.2	944.8	945.6	944.8
12.5°	980.0	980.8	980.0	981.6	981.6	983.2	983.2	985.6	985.6
15°	1018.4	1017.6	1016.8	1019.2	1020.8	1021.6	1023.2	1025.6	1023.2
17.5°	1052.8	1053.6	1052.0	1054.4	1057.6	1060.0	1061.6	1064.8	1064.0
20°	1087.2	1085.6	1087.2	1091.2	1094.4	1097.6	1100.8	1105.6	1104.8
22.5°	1120.8	1122.4	1126.4	1129.6	1135.2	1140.0	1144.0	1150.4	1152.8
25°	1168.0	1168.0	1174.4	1178.4	1186.4	1192.8	1201.6	1208.8	1212.8
27.5°	1228.0	1228.0	1235.2	1244.0	1256.0	1267.2	1276.8	1286.4	1284.8
30°	1309.6	1313.6	1320.0	1331.2	1347.2	1360.8	1373.6	1383.2	1384.0
32.5°	1416.8	1421.6	1440.8	1469.6	1503.2	1528.8	1548.0	1571.2	1574.4
35°	1660.0	1672.0	1696.8	1720.0	1733.6	1748.8	1758.4	1759.2	1760.8
37.5°	1916.0	1895.2	1876.0	1858.4	1850.4	1848.8	1848.8	1852.0	1853.6
40°	2009.6	1999.2	1990.4	1979.2	1982.4	1981.6	1987.2	1992.0	1995.2
42.5°	2169.6	2161.6	2153.6	2139.2	2147.2	2144.8	2152.8	2160.0	2164.0
45°	2392.8	2368.0	2350.4	2327.2	2335.2	2330.4	2330.4	2339.2	2340.8
47.5°	2639.2	2610.4	2574.4	2545.6	2536.0	2527.2	2535.2	2535.2	2526.4
50°	2934.4	2900.0	2857.6	2811.2	2795.2	2786.4	2789.6	2793.6	2768.8
52.5°	3335.2	3296.8	3236.8	3166.4	3151.2	3144.0	3142.4	3136.8	3130.4
55°	3878.4	3806.4	3732.8	3640.0	3612.0	3604.0	3604.8	3598.4	3613.6
57.5°	4519.2	4413.6	4244.0	4131.2	4064.0	4038.4	4015.2	4005.6	4006.4
60°	5153.6	4938.4	4684.8	4488.0	4347.2	4257.6	4187.2	4148.0	4136.8
62.5°	5562.4	5224.0	4843.2	4524.0	4292.8	4144.8	4033.6	3963.2	3940.8
63°	5594.4	5236.0	4828.8	4486.4	4243.2	4088.0	3971.2	3898.4	3874.4
65°	5524.8	5115.2	4640.8	4232.8	3966.4	3794.4	3668.0	3599.2	3580.8
67.5°	4984.0	4643.2	4160.0	3738.4	3469.6	3295.2	3150.4	3084.8	3064.0
70°	4054.4	3820.8	3424.8	3064.8	2814.4	2646.4	2500.0	2445.6	2444.8
72.5°	3005.6	2702.4	2466.4	2202.4	1984.0	1850.4	1723.2	1662.4	1632.0
75°	1988.0	1663.2	1399.2	1176.8	959.2	839.2	696.0	634.4	598.4
77.5°	1001.6	742.4	532.0	368.8	286.4	235.2	215.2	204.8	204.0
80°	333.6	250.4	215.2	201.6	197.6	198.4	196.0	192.0	187.2
82.5°	184.8	194.4	196.0	190.4	190.4	187.2	184.0	168.8	160.8
85°	158.4	174.4	176.0	172.8	172.0	167.2	161.6	140.8	128.8
87.5°	99.2	114.4	112.0	100.0	110.4	103.2	97.6	63.2	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)