

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: P157364

Luminaire Tested: **VST-F06-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157364
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-F06-LED-E-U-5MQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14471.5 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.5
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: 28.75 FT

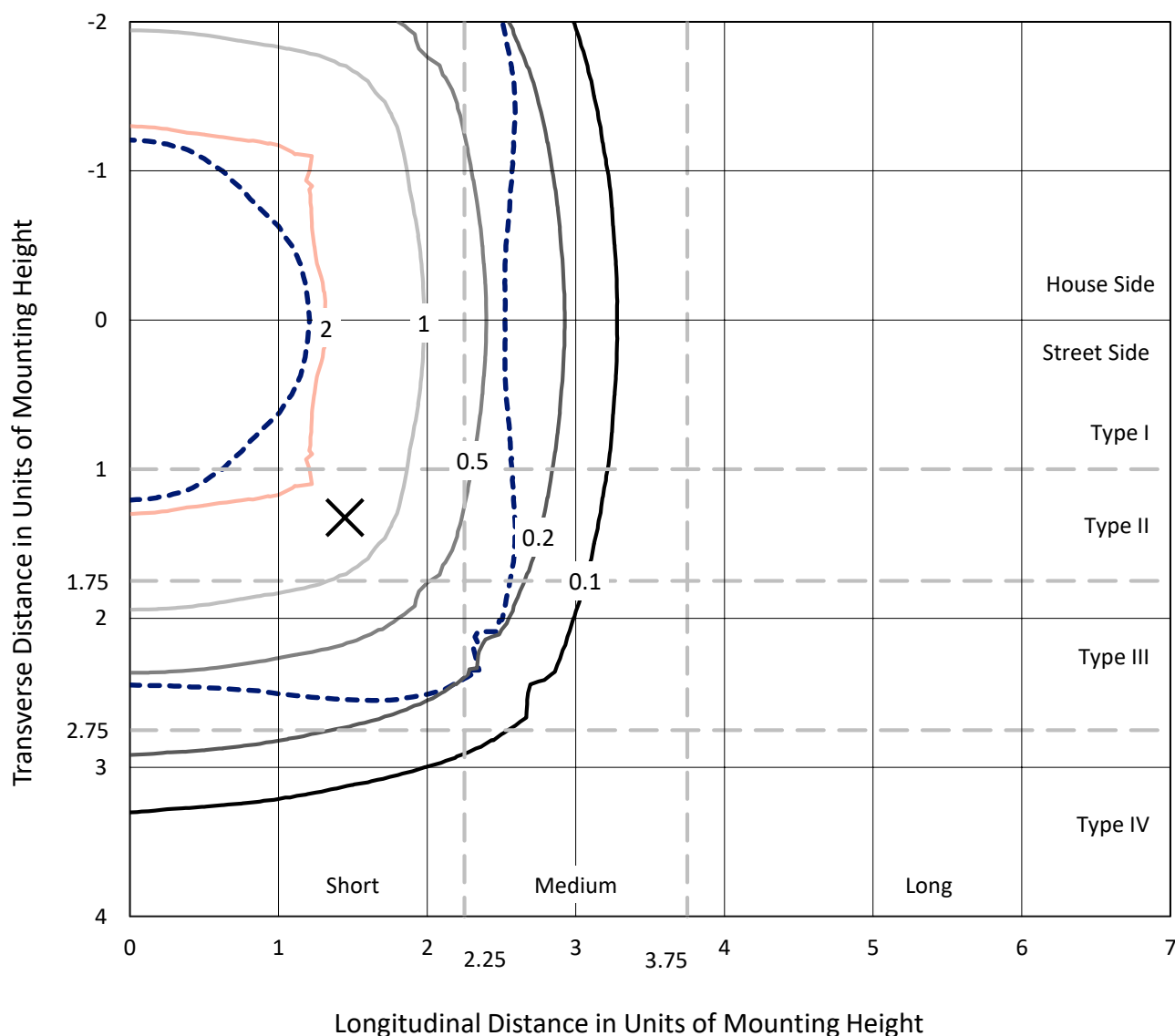


REPORT NUMBER: P157364

CATALOG NUMBER: VST-F06-LED-E-U-5MQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

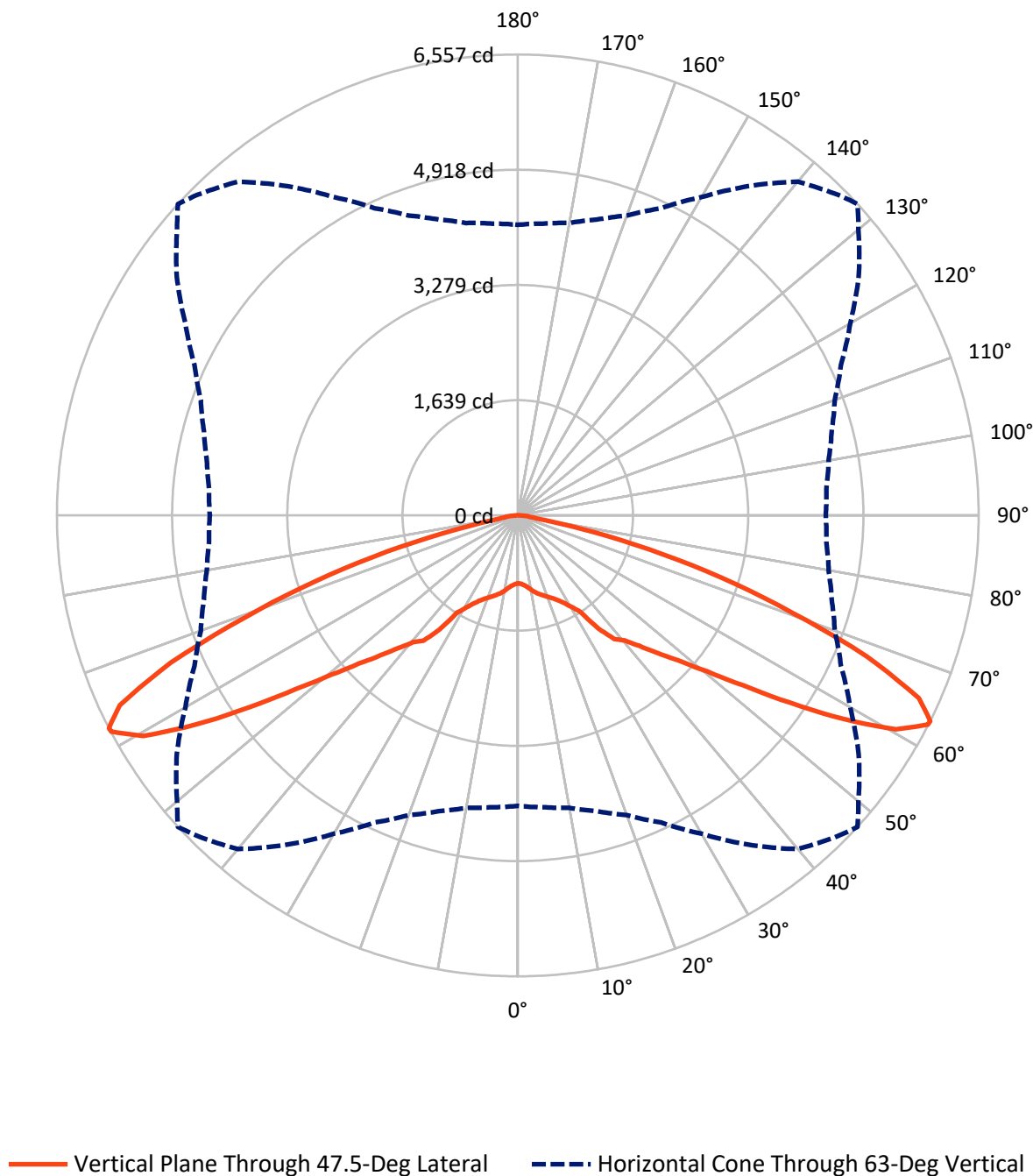


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157364

CATALOG NUMBER: VST-F06-LED-E-U-5MQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P157364

CATALOG NUMBER: VST-F06-LED-E-U-5MQ-7030

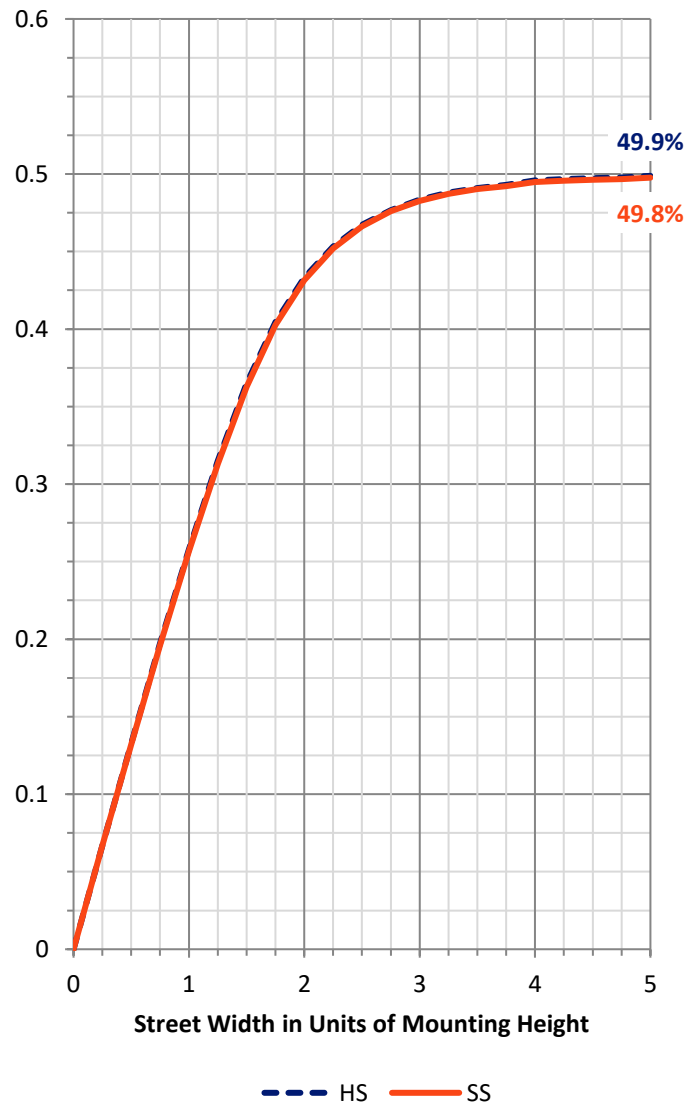
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7235.8	0.0	7235.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7235.8	0.0	7235.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	14471.5	0.0	14471.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	0.7
10°-20°	329.8	2.3
20°-30°	630.8	4.4
30°-40°	1206.6	8.3
40°-50°	2087.9	14.4
50°-60°	3749.8	25.9
60°-70°	4559.8	31.5
70°-80°	1646.8	11.4
80°-90°	163.1	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°	14471.5	100.0
0°-180°	14471.5	100.0

Coefficient of Utilization



REPORT NUMBER: P157364

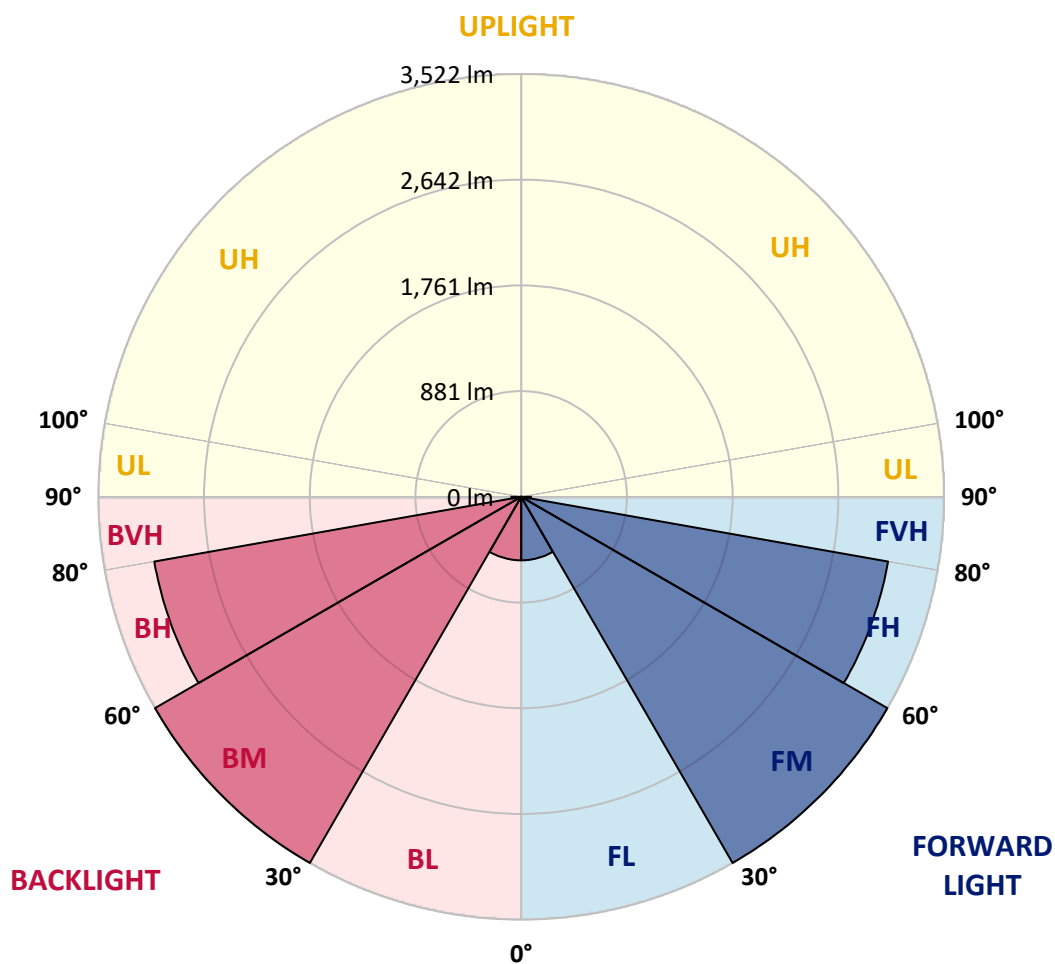
CATALOG NUMBER: VST-F06-LED-E-U-5MQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.8	3.7			
FM	(30°-60°)	3522.2	24.3			
FH	(60°-80°)	3103.3	21.4			G2/5000
FVH	(80°-90°)	81.6	0.6			G1/100
BL	(0°-30°)	528.8	3.7	B2/1000		
BM	(30°-60°)	3522.2	24.3	B3/5000		
BH	(60°-80°)	3103.3	21.4	B4/5000		G2/5000
BVH	(80°-90°)	81.6	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: P157364

CATALOG NUMBER: VST-F06-LED-E-U-5MQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
2.5°	972.7	970.8	971.7	972.7	971.7	970.8	970.8	970.8	972.7	970.8	975.4
5°	991.7	989.8	990.7	990.7	990.7	988.9	988.9	988.9	988.0	988.9	998.9
7.5°	1027.8	1025.1	1024.2	1026.0	1024.2	1023.3	1022.4	1022.4	1020.6	1020.6	1033.3
10°	1071.3	1067.7	1069.5	1070.4	1067.7	1065.8	1065.8	1065.8	1063.1	1062.2	1078.5
12.5°	1119.2	1117.4	1117.4	1115.6	1114.7	1112.9	1112.0	1112.9	1109.3	1109.3	1125.6
15°	1165.4	1161.8	1162.7	1159.9	1158.1	1156.3	1155.4	1154.5	1152.7	1152.7	1162.7
17.5°	1207.9	1205.2	1204.3	1201.6	1198.8	1196.1	1194.3	1193.4	1190.7	1190.7	1199.8
20°	1252.2	1249.5	1247.7	1243.2	1238.7	1235.9	1232.3	1230.5	1226.9	1227.8	1237.8
22.5°	1302.9	1298.4	1294.8	1291.1	1283.0	1277.6	1273.0	1269.4	1267.6	1267.6	1281.2
25°	1370.8	1368.0	1362.6	1350.9	1340.9	1332.8	1325.5	1321.9	1318.3	1316.5	1337.3
27.5°	1454.0	1451.3	1444.0	1432.3	1418.7	1405.1	1397.0	1390.7	1386.1	1383.4	1413.3
30°	1564.4	1559.9	1553.5	1534.5	1522.8	1502.0	1492.9	1483.9	1473.9	1476.6	1511.9
32.5°	1780.6	1774.3	1754.4	1733.6	1697.4	1669.3	1640.4	1618.7	1597.9	1595.1	1633.1
35°	1977.0	1974.3	1970.6	1956.2	1942.6	1925.4	1911.8	1889.2	1870.2	1865.7	1972.4
37.5°	2082.8	2089.2	2083.7	2081.9	2081.9	2090.1	2115.4	2140.7	2158.8	2169.7	2229.4
40°	2244.8	2244.8	2238.5	2234.8	2227.6	2238.5	2249.3	2268.3	2276.5	2277.4	2338.0
42.5°	2428.5	2429.4	2423.0	2412.2	2408.6	2418.5	2433.0	2451.1	2461.9	2464.7	2535.2
45°	2632.9	2630.2	2624.8	2621.2	2623.9	2632.9	2650.1	2685.4	2701.7	2714.4	2791.3
47.5°	2854.6	2872.7	2857.3	2860.0	2860.0	2888.1	2927.0	2956.0	2982.2	3006.6	3088.1
50°	3145.1	3147.8	3150.5	3158.6	3164.1	3201.2	3250.0	3284.4	3322.4	3354.1	3487.1
52.5°	3533.2	3527.8	3541.4	3550.4	3581.2	3601.1	3682.5	3725.9	3778.4	3819.1	4013.7
55°	3997.4	3994.7	4014.6	4021.8	4062.5	4111.4	4201.9	4296.9	4386.4	4436.2	4702.2
57.5°	4330.3	4337.6	4372.0	4419.9	4499.5	4603.6	4738.4	4948.3	5118.4	5172.7	5465.8
60°	4403.6	4427.1	4478.7	4574.6	4711.3	4904.9	5170.0	5491.2	5802.4	5906.5	6181.5
62.5°	4198.2	4225.4	4301.4	4416.3	4594.5	4881.4	5264.1	5717.4	6179.7	6411.4	6549.8
63°	4133.1	4166.6	4223.6	4356.6	4537.5	4820.7	5227.9	5716.5	6196.0	6448.5	6557.0
65°	3827.3	3833.6	3918.7	4051.7	4255.2	4549.3	4960.1	5524.7	6056.7	6348.0	6272.9
67.5°	3293.4	3319.7	3391.2	3525.1	3723.2	4029.0	4475.1	4997.2	5464.9	5697.5	5361.8
70°	2661.0	2659.2	2747.9	2855.5	3030.1	3298.9	3689.7	4161.1	4532.1	4701.3	4139.4
72.5°	1901.0	1853.9	1919.1	2038.5	2181.5	2395.9	2705.3	3071.8	3403.8	3550.4	3026.5
75°	865.9	853.2	911.1	1029.7	1174.4	1365.3	1619.6	1936.3	2254.7	2426.7	1928.1
77.5°	291.3	295.0	317.6	360.1	437.9	533.8	692.2	894.8	1152.7	1322.8	904.8
80°	195.4	200.9	208.1	214.4	223.5	238.0	272.3	324.8	404.4	489.5	285.9
82.5°	160.1	166.5	182.8	190.0	195.4	200.0	202.7	206.3	206.3	208.1	181.0
85°	114.9	125.8	147.5	161.1	166.5	170.1	174.6	180.1	171.9	164.7	140.2
87.5°	39.8	54.3	79.6	87.8	94.1	95.0	101.3	112.2	106.8	86.9	42.5
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: P157364

CATALOG NUMBER: VST-F06-LED-E-U-5MQ-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
2.5°	970.8	969.9	970.8	971.7	971.7	971.7	972.7	973.6	973.6
5°	988.9	989.8	988.9	989.8	989.8	990.7	990.7	992.6	992.6
7.5°	1019.7	1021.5	1020.6	1022.4	1022.4	1024.2	1023.3	1026.0	1026.0
10°	1061.3	1063.1	1064.9	1065.8	1064.9	1066.7	1068.6	1069.5	1068.6
12.5°	1108.4	1109.3	1108.4	1110.2	1110.2	1112.0	1112.0	1114.7	1114.7
15°	1151.8	1150.9	1150.0	1152.7	1154.5	1155.4	1157.2	1159.9	1157.2
17.5°	1190.7	1191.6	1189.8	1192.5	1196.1	1198.8	1200.7	1204.3	1203.4
20°	1229.6	1227.8	1229.6	1234.1	1237.8	1241.4	1245.0	1250.4	1249.5
22.5°	1267.6	1269.4	1273.9	1277.6	1283.9	1289.3	1293.9	1301.1	1303.8
25°	1321.0	1321.0	1328.2	1332.8	1341.8	1349.0	1359.0	1367.1	1371.7
27.5°	1388.9	1388.9	1397.0	1407.0	1420.5	1433.2	1444.0	1454.9	1453.1
30°	1481.1	1485.7	1492.9	1505.6	1523.7	1539.1	1553.5	1564.4	1565.3
32.5°	1602.4	1607.8	1629.5	1662.1	1700.1	1729.1	1750.8	1777.0	1780.6
35°	1877.4	1891.0	1919.1	1945.3	1960.7	1977.9	1988.7	1989.6	1991.4
37.5°	2167.0	2143.5	2121.7	2101.8	2092.8	2091.0	2091.0	2094.6	2096.4
40°	2272.8	2261.1	2251.1	2238.5	2242.1	2241.2	2247.5	2252.9	2256.6
42.5°	2453.8	2444.7	2435.7	2419.4	2428.5	2425.7	2434.8	2442.9	2447.5
45°	2706.2	2678.2	2658.3	2632.0	2641.1	2635.7	2635.7	2645.6	2647.4
47.5°	2984.9	2952.3	2911.6	2879.0	2868.2	2858.2	2867.3	2867.3	2857.3
50°	3318.8	3279.9	3231.9	3179.4	3161.3	3151.4	3155.0	3159.5	3131.5
52.5°	3772.1	3728.6	3660.8	3581.2	3564.0	3555.8	3554.0	3547.7	3540.5
55°	4386.4	4305.0	4221.8	4116.8	4085.1	4076.1	4077.0	4069.8	4086.9
57.5°	5111.2	4991.7	4799.9	4672.3	4596.3	4567.4	4541.2	4530.3	4531.2
60°	5828.7	5585.3	5298.5	5075.9	4916.6	4815.3	4735.7	4691.3	4678.7
62.5°	6291.0	5908.3	5477.6	5116.6	4855.1	4687.7	4562.0	4482.3	4457.0
63°	6327.2	5921.9	5461.3	5074.1	4799.0	4623.5	4491.4	4409.1	4381.9
65°	6248.5	5785.2	5248.7	4787.3	4486.0	4291.4	4148.5	4070.7	4049.8
67.5°	5636.9	5251.4	4704.9	4228.1	3924.1	3726.8	3563.1	3488.9	3465.4
70°	4585.5	4321.3	3873.4	3466.3	3183.1	2993.1	2827.5	2765.9	2765.0
72.5°	3399.3	3056.4	2789.5	2490.9	2243.9	2092.8	1948.9	1880.2	1845.8
75°	2248.4	1881.1	1582.5	1330.9	1084.8	949.1	787.2	717.5	676.8
77.5°	1132.8	839.6	601.7	417.1	323.9	266.0	243.4	231.6	230.7
80°	377.3	283.2	243.4	228.0	223.5	224.4	221.7	217.2	211.7
82.5°	209.0	219.9	221.7	215.3	215.3	211.7	208.1	190.9	181.9
85°	179.1	197.2	199.1	195.4	194.5	189.1	182.8	159.2	145.7
87.5°	112.2	129.4	126.7	113.1	124.9	116.7	110.4	71.5	52.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)