

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: P157801

Luminaire Tested: **VST-E06-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157801
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E06-LED-E-U-5XQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19470.8 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G4

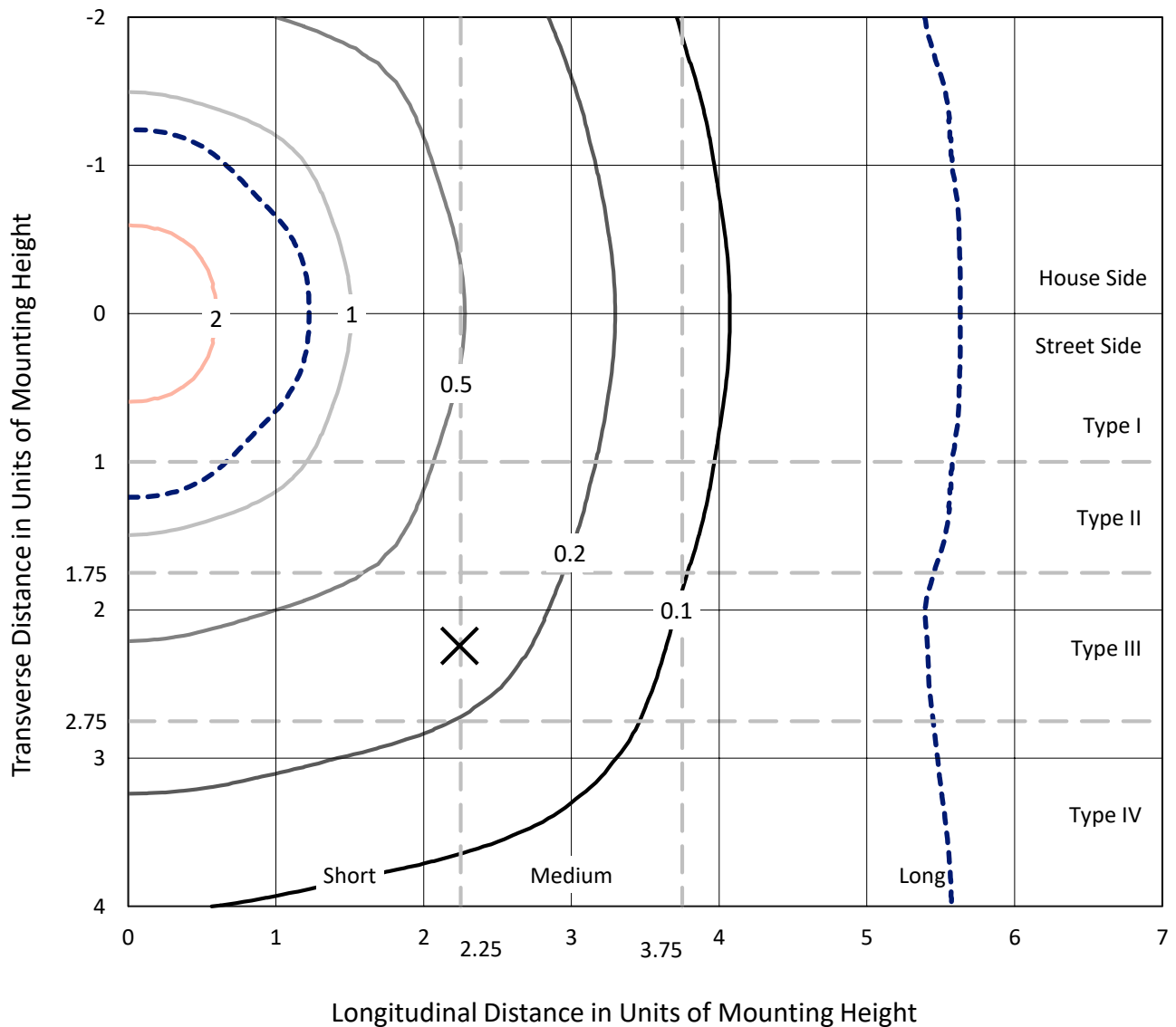
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P157801
 CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7050

Iso-Footcandle Lines of Horizontal Illumination

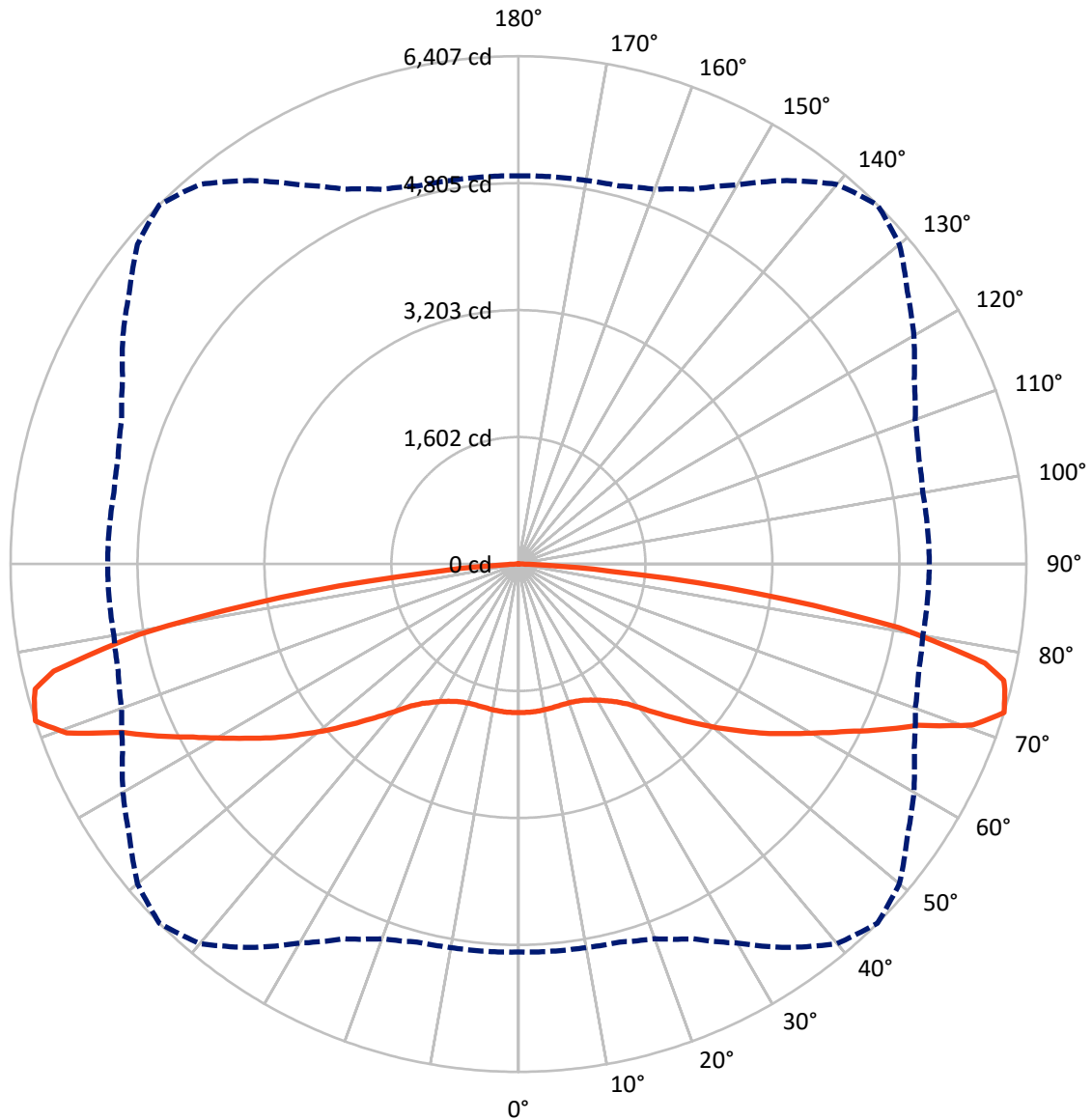
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157801
CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P157801

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7050

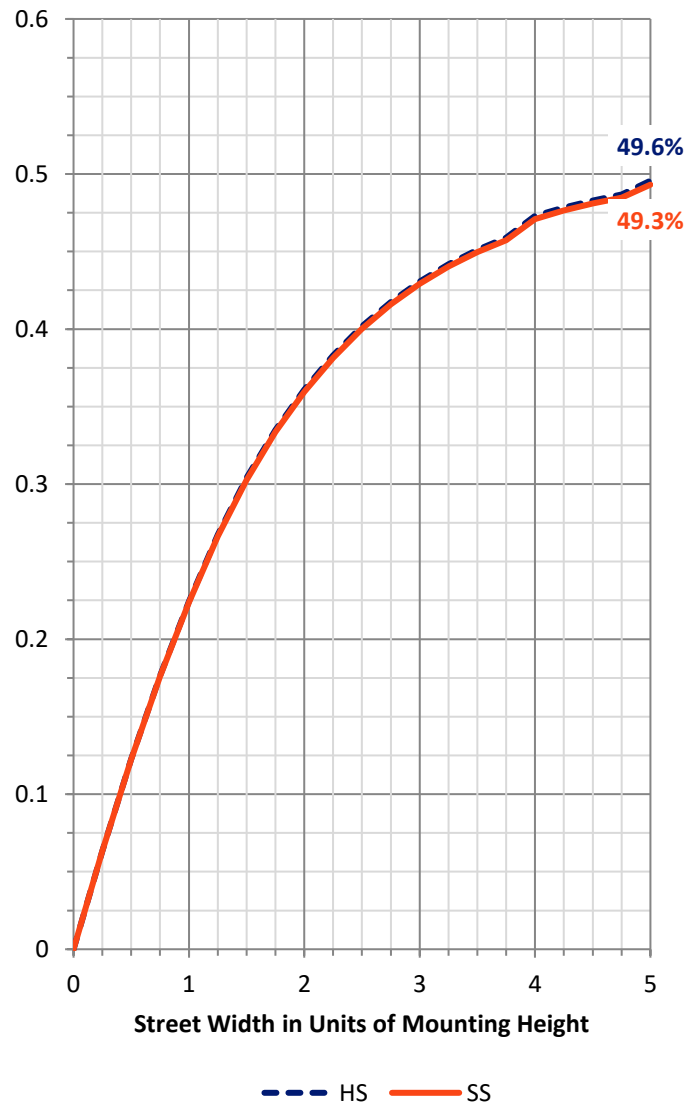
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9730.7	4.7	9735.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9730.7	4.7	9735.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19461.4	9.5	19470.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	0.9
10°-20°	528.1	2.7
20°-30°	883.1	4.5
30°-40°	1342.3	6.9
40°-50°	2125.9	10.9
50°-60°	3251.9	16.7
60°-70°	4654.0	23.9
70°-80°	5325.2	27.3
80°-90°	1172.0	6.0
90°-100°	1.0	0.0
100°-110°	2.0	0.0
110°-120°	1.4	0.0
120°-130°	1.5	0.0
130°-140°	1.4	0.0
140°-150°	1.1	0.0
150°-160°	0.8	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	19461.4	100.0
0°-180°	19470.8	100.0



REPORT NUMBER: P157801

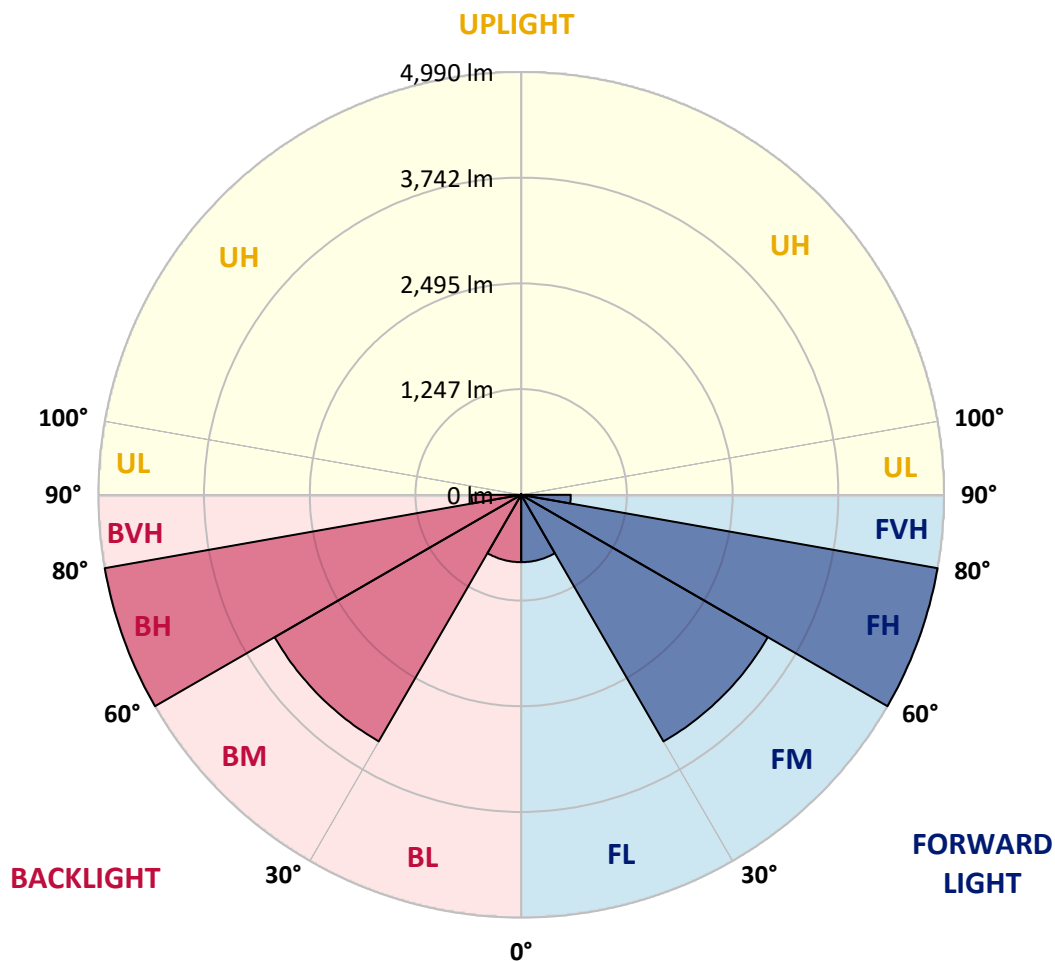
CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.0	4.1			
FM	(30°-60°)	3360.0	17.3			
FH	(60°-80°)	4989.6	25.6			G2/5000
FVH	(80°-90°)	586.0	3.0			G4/750
BL	(0°-30°)	795.0	4.1	B2/1000		
BM	(30°-60°)	3360.0	17.3	B3/5000		
BH	(60°-80°)	4989.6	25.6	B4/5000		G2/5000
BVH	(80°-90°)	586.0	3.0			G4/750
UL	(90°-100°)	1.0	0.0		U1/10	
UH	(100°-180°)	4.7	0.0		U1/10	

BUG Rating: B4-U1-G4

Type V Short





REPORT NUMBER: P157801

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1
2.5°	1875.3	1872.8	1874.1	1876.5	1875.3	1875.3	1874.1	1874.1	1876.5	1874.1	1875.3
5°	1876.5	1874.1	1875.3	1876.5	1875.3	1876.5	1875.3	1875.3	1875.3	1874.1	1876.5
7.5°	1871.6	1871.6	1872.8	1872.8	1871.6	1872.8	1872.8	1872.8	1871.6	1871.6	1874.1
10°	1869.2	1867.9	1867.9	1869.2	1867.9	1867.9	1869.2	1869.2	1866.7	1866.7	1869.2
12.5°	1865.5	1864.2	1864.2	1864.2	1863.0	1863.0	1864.2	1864.2	1863.0	1861.8	1865.5
15°	1863.0	1861.8	1861.8	1861.8	1859.3	1860.5	1860.5	1860.5	1859.3	1858.1	1861.8
17.5°	1861.8	1860.5	1860.5	1860.5	1859.3	1859.3	1859.3	1859.3	1858.1	1858.1	1860.5
20°	1864.2	1864.2	1864.2	1864.2	1863.0	1863.0	1863.0	1864.2	1864.2	1864.2	1866.7
22.5°	1870.4	1870.4	1871.6	1872.8	1872.8	1875.3	1876.5	1877.8	1877.8	1879.0	1881.5
25°	1886.4	1886.4	1887.6	1888.9	1892.5	1895.0	1899.9	1902.4	1903.6	1903.6	1904.9
27.5°	1915.9	1917.2	1919.6	1922.1	1927.0	1930.7	1935.6	1940.6	1941.8	1943.0	1944.3
30°	1952.9	1954.1	1959.0	1961.5	1967.7	1975.0	1981.2	1986.1	1989.8	1992.3	1991.1
32.5°	2005.8	2008.3	2014.5	2018.1	2026.8	2034.2	2042.8	2050.2	2053.9	2057.5	2056.3
35°	2079.7	2085.9	2092.0	2095.7	2104.3	2110.5	2121.6	2129.0	2136.4	2133.9	2135.1
37.5°	2189.3	2194.2	2195.5	2197.9	2206.5	2211.5	2223.8	2233.6	2237.3	2239.8	2241.0
40°	2337.1	2337.1	2343.2	2338.3	2349.4	2350.6	2365.4	2378.9	2382.6	2392.5	2385.1
42.5°	2509.4	2508.2	2511.9	2508.2	2508.2	2520.5	2532.8	2557.5	2559.9	2572.2	2564.9
45°	2696.6	2696.6	2692.9	2694.1	2696.6	2710.1	2724.9	2752.0	2764.3	2771.7	2766.8
47.5°	2899.8	2894.8	2893.6	2892.4	2899.8	2914.5	2936.7	2962.6	2993.4	2995.8	2993.4
50°	3105.4	3104.2	3095.6	3102.9	3107.9	3115.3	3157.1	3191.6	3223.6	3243.3	3237.2
52.5°	3322.1	3311.0	3311.0	3311.0	3323.4	3346.7	3383.7	3430.5	3473.6	3494.5	3490.8
55°	3541.3	3537.6	3526.5	3521.6	3537.6	3570.8	3623.8	3680.4	3737.1	3769.1	3756.8
57.5°	3742.0	3735.8	3737.1	3738.3	3756.8	3801.1	3862.7	3937.8	3999.3	4033.8	4025.2
60°	3899.6	3892.2	3905.8	3909.5	3942.7	4016.6	4115.1	4209.9	4291.2	4325.7	4312.1
62.5°	4078.2	4073.2	4081.8	4080.6	4116.3	4198.8	4330.6	4482.0	4605.2	4649.5	4629.8
65°	4366.3	4351.5	4347.8	4334.3	4357.7	4421.7	4553.4	4729.5	4926.5	5039.8	5012.7
67.5°	4711.1	4707.4	4695.0	4687.7	4696.3	4776.3	4903.1	5073.1	5273.8	5430.2	5464.6
70°	4938.9	4943.8	4956.1	4974.6	5046.0	5201.1	5432.6	5690.0	5965.8	6082.8	6061.8
72.5°	4895.8	4903.1	4913.0	4936.4	5030.0	5215.9	5521.3	5905.4	6251.4	6406.6	6273.6
75°	4685.2	4691.4	4713.5	4749.2	4863.7	5089.1	5417.8	5825.4	6182.5	6337.6	6198.5
76°	4490.6	4510.3	4551.0	4592.8	4730.8	4975.8	5326.7	5761.4	6139.4	6297.0	6162.8
77.5°	4049.8	4067.1	4100.3	4173.0	4329.3	4643.3	5053.4	5480.6	5874.7	6016.3	5903.0
80°	3047.5	3062.3	3093.1	3180.5	3316.0	3510.5	3828.2	4245.6	4677.8	4863.7	4789.9
82.5°	1286.7	1304.0	1425.9	1552.7	1701.7	1912.3	2119.1	2488.5	2806.2	3018.0	2904.7
85°	141.6	174.8	215.5	293.1	359.5	479.0	596.0	820.1	1036.8	1168.5	1033.1
87.5°	24.6	28.3	40.6	51.7	57.9	66.5	80.0	112.1	152.7	131.8	134.2
90°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	2.5	2.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
97.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
100°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
102.5°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
105°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
107.5°	1.2	1.2	1.2	1.2	2.5	2.5	1.2	1.2	1.2	2.5	1.2



REPORT NUMBER: P157801

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
115°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
117.5°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
120°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
122.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
125°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
127.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
130°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2
132.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
135°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2
137.5°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2
140°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2
142.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
145°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	0.0	1.2
147.5°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2
150°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	0.0	0.0	0.0
152.5°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	0.0	0.0
155°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	0.0	1.2
157.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	0.0	0.0	0.0
160°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	0.0	0.0	0.0
162.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	0.0	0.0	0.0
165°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157801

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1
2.5°	1874.1	1874.1	1876.5	1875.3	1875.3	1876.5	1879.0	1877.8
5°	1875.3	1876.5	1874.1	1875.3	1876.5	1876.5	1877.8	1876.5
7.5°	1872.8	1872.8	1872.8	1874.1	1875.3	1874.1	1875.3	1875.3
10°	1867.9	1869.2	1867.9	1870.4	1871.6	1871.6	1872.8	1872.8
12.5°	1864.2	1864.2	1864.2	1866.7	1867.9	1867.9	1869.2	1867.9
15°	1860.5	1860.5	1859.3	1861.8	1864.2	1864.2	1865.5	1865.5
17.5°	1859.3	1859.3	1858.1	1860.5	1863.0	1863.0	1864.2	1864.2
20°	1863.0	1864.2	1861.8	1864.2	1866.7	1867.9	1867.9	1867.9
22.5°	1877.8	1876.5	1872.8	1874.1	1875.3	1875.3	1875.3	1875.3
25°	1899.9	1897.5	1893.8	1892.5	1891.3	1890.1	1890.1	1890.1
27.5°	1938.1	1934.4	1928.3	1927.0	1925.8	1923.3	1923.3	1923.3
30°	1983.7	1978.7	1971.4	1968.9	1965.2	1962.7	1961.5	1960.3
32.5°	2048.9	2039.1	2030.5	2024.3	2020.6	2013.2	2012.0	2009.5
35°	2124.0	2116.7	2104.3	2100.6	2094.5	2090.8	2089.6	2083.4
37.5°	2227.5	2218.9	2207.8	2205.3	2204.1	2200.4	2200.4	2199.1
40°	2371.5	2362.9	2353.1	2343.2	2345.7	2346.9	2346.9	2342.0
42.5°	2547.6	2534.1	2514.4	2520.5	2516.8	2511.9	2521.8	2515.6
45°	2748.3	2729.9	2715.1	2708.9	2708.9	2702.8	2712.6	2712.6
47.5°	2971.2	2941.6	2914.5	2915.8	2905.9	2908.4	2914.5	2923.2
50°	3206.4	3167.0	3141.1	3128.8	3119.0	3122.6	3133.7	3136.2
52.5°	3450.2	3402.2	3367.7	3349.2	3336.9	3341.8	3350.4	3357.8
55°	3703.8	3650.9	3599.2	3579.5	3564.7	3574.5	3575.8	3585.6
57.5°	3968.6	3895.9	3835.6	3806.0	3791.3	3801.1	3808.5	3818.3
60°	4235.8	4152.0	4080.6	4046.1	4025.2	4038.8	4056.0	4060.9
62.5°	4546.1	4430.3	4350.3	4301.0	4291.2	4304.7	4309.6	4324.4
65°	4913.0	4773.9	4663.0	4602.7	4600.2	4607.6	4618.7	4622.4
67.5°	5331.6	5176.5	5027.5	4967.2	4943.8	4965.9	4977.0	4991.8
70°	5922.7	5709.7	5494.2	5360.0	5303.3	5286.1	5291.0	5307.0
72.5°	5989.2	5760.1	5509.0	5326.7	5227.0	5181.4	5180.2	5182.7
75°	5843.9	5478.2	5300.9	5091.5	4949.9	4876.1	4866.2	4865.0
76°	5771.2	5339.0	5082.9	4916.7	4746.8	4671.7	4660.6	4654.4
77.5°	5464.6	5000.4	4615.0	4514.0	4351.5	4256.7	4276.4	4260.4
80°	4381.1	3920.5	3557.3	3272.9	3281.5	3212.5	3184.2	3175.6
82.5°	2582.1	2204.1	1802.7	1567.5	1343.4	1284.3	1105.7	1065.1
85°	825.0	584.9	354.6	257.3	174.8	146.5	114.5	104.7
87.5°	109.6	86.2	70.2	67.7	61.6	52.9	34.5	24.6
90°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
97.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
100°	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
102.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
105°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
107.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



REPORT NUMBER: P157801

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5
115°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5
117.5°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
120°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
122.5°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
125°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
127.5°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
130°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
132.5°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
135°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
137.5°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
140°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
142.5°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
145°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
147.5°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
150°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
152.5°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
155°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
157.5°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
160°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
162.5°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
165°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)