

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: P157809

Luminaire Tested: **VST-E07-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157809
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-E07-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (147) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20220 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U1 - G4

Input Watts (W): 172.5
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

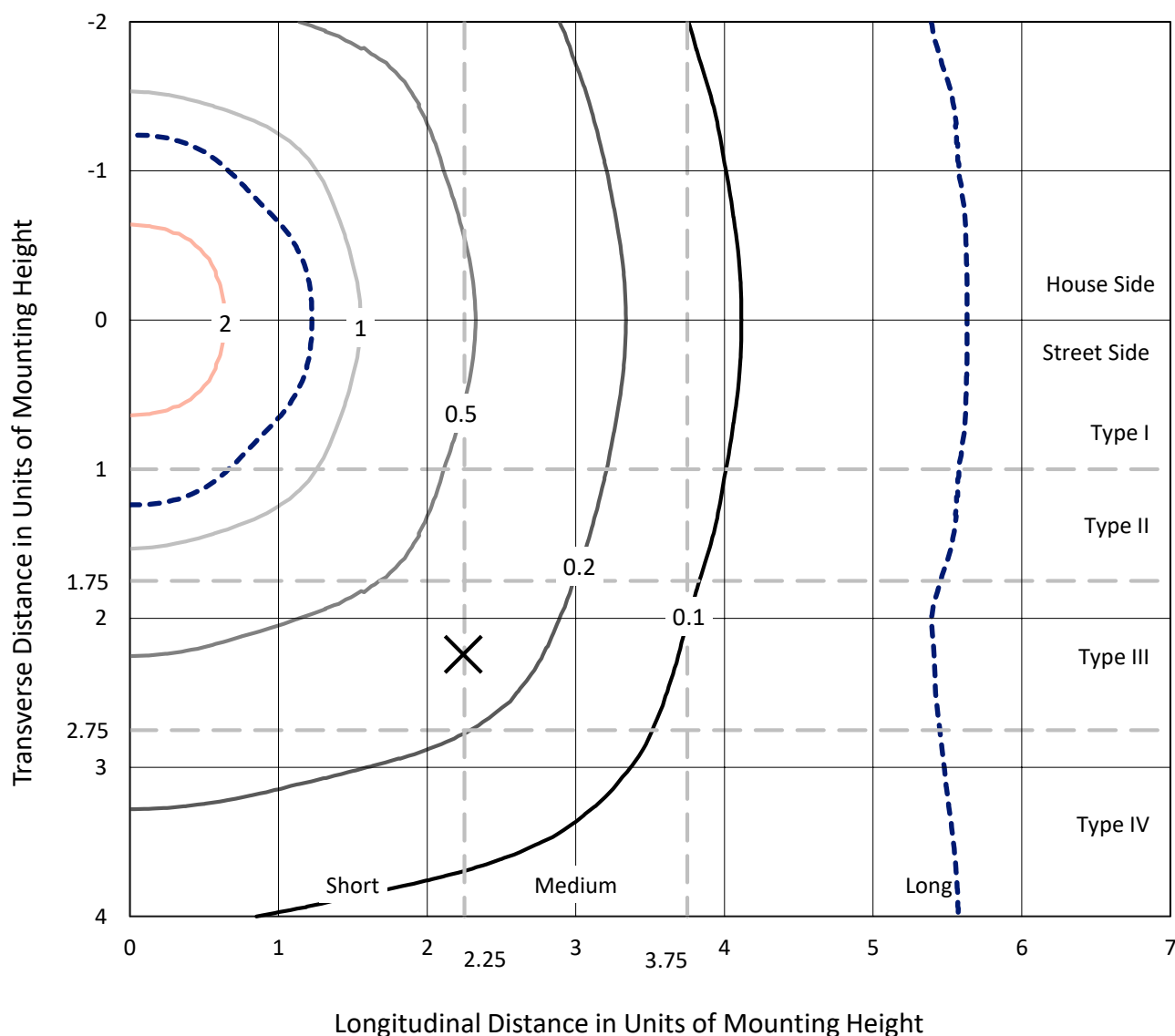


REPORT NUMBER: P157809

CATALOG NUMBER: VST-E07-LED-E-U-5XQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

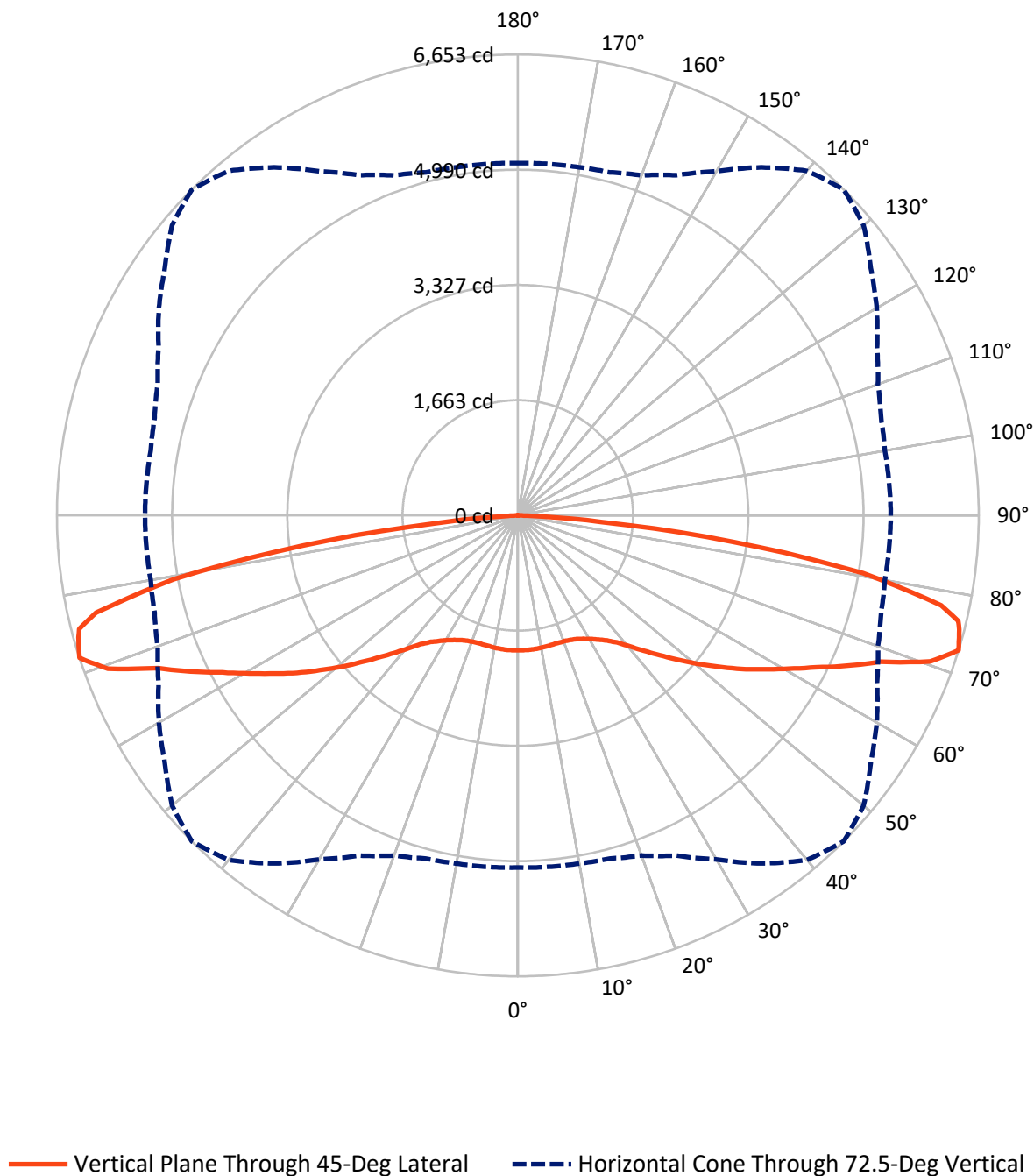


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157809

CATALOG NUMBER: VST-E07-LED-E-U-5XQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P157809

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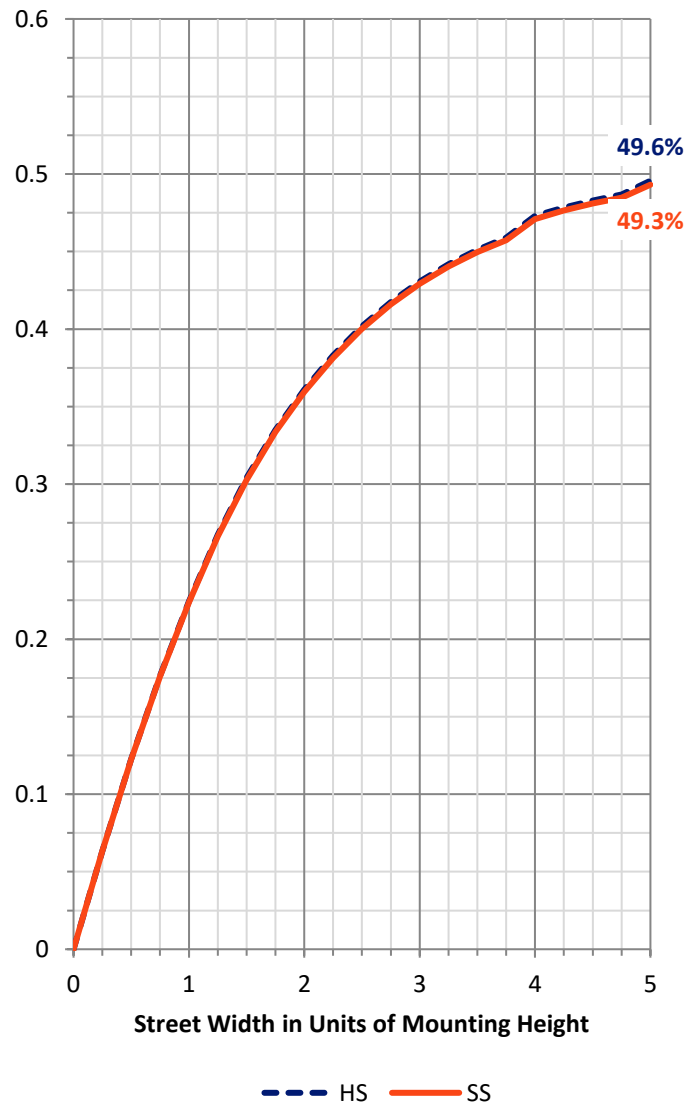
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10105.0	5.0	10110.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10105.0	5.0	10110.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20209.9	10.0	20220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	0.9
10°-20°	548.4	2.7
20°-30°	917.1	4.5
30°-40°	1393.9	6.9
40°-50°	2207.7	10.9
50°-60°	3377.0	16.7
60°-70°	4833.0	23.9
70°-80°	5530.1	27.3
80°-90°	1217.1	6.0
90°-100°	1.0	0.0
100°-110°	2.1	0.0
110°-120°	1.5	0.0
120°-130°	1.6	0.0
130°-140°	1.5	0.0
140°-150°	1.2	0.0
150°-160°	0.8	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	20209.9	100.0
0°-180°	20220.0	100.0

Coefficient of Utilization



REPORT NUMBER: P157809

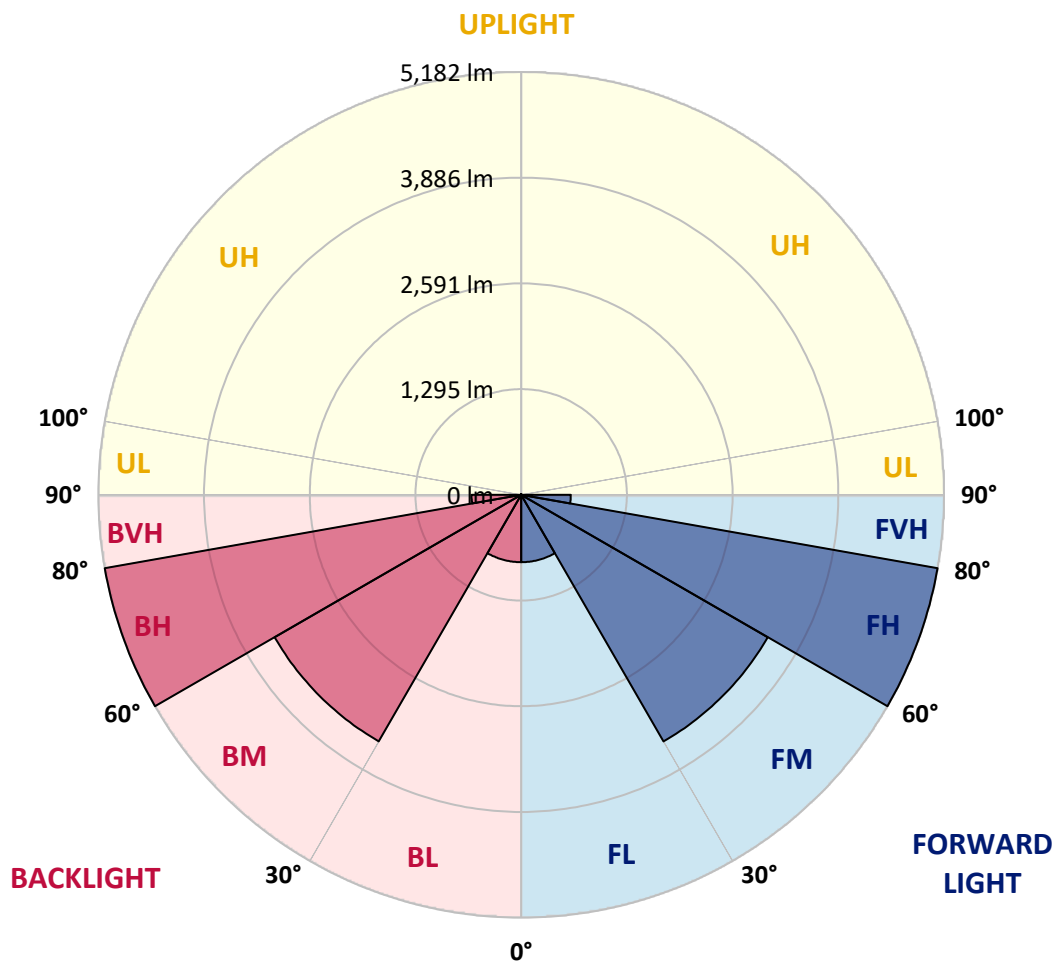
CATALOG NUMBER: VST-E07-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.6	4.1			
FM	(30°-60°)	3489.3	17.3			
FH	(60°-80°)	5181.5	25.6			G3/7500
FVH	(80°-90°)	608.6	3.0			G4/750
BL	(0°-30°)	825.6	4.1	B2/1000		
BM	(30°-60°)	3489.3	17.3	B3/5000		
BH	(60°-80°)	5181.5	25.6	B5		G3/7500
BVH	(80°-90°)	608.6	3.0			G4/750
UL	(90°-100°)	1.0	0.0		U1/10	
UH	(100°-180°)	5.0	0.0		U1/10	

BUG Rating: B5-U1-G4

Type V Short





REPORT NUMBER: P157809

CATALOG NUMBER: VST-E07-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2
2.5°	1947.4	1944.9	1946.2	1948.7	1947.4	1947.4	1946.2	1946.2	1948.7	1946.2	1947.4
5°	1948.7	1946.2	1947.4	1948.7	1947.4	1948.7	1947.4	1947.4	1947.4	1946.2	1948.7
7.5°	1943.6	1943.6	1944.9	1944.9	1943.6	1944.9	1944.9	1944.9	1943.6	1943.6	1946.2
10°	1941.1	1939.8	1939.8	1941.1	1939.8	1939.8	1941.1	1941.1	1938.5	1938.5	1941.1
12.5°	1937.2	1935.9	1935.9	1935.9	1934.7	1934.7	1935.9	1935.9	1934.7	1933.4	1937.2
15°	1934.7	1933.4	1933.4	1933.4	1930.8	1932.1	1932.1	1932.1	1930.8	1929.5	1933.4
17.5°	1933.4	1932.1	1932.1	1932.1	1930.8	1930.8	1930.8	1930.8	1929.5	1929.5	1932.1
20°	1935.9	1935.9	1935.9	1935.9	1934.7	1934.7	1934.7	1935.9	1935.9	1935.9	1938.5
22.5°	1942.3	1942.3	1943.6	1944.9	1944.9	1947.4	1948.7	1950.0	1950.0	1951.3	1953.8
25°	1959.0	1959.0	1960.2	1961.5	1965.3	1967.9	1973.0	1975.6	1976.9	1976.9	1978.1
27.5°	1989.6	1990.9	1993.5	1996.0	2001.2	2005.0	2010.1	2015.2	2016.5	2017.8	2019.1
30°	2028.0	2029.3	2034.4	2037.0	2043.3	2051.0	2057.4	2062.5	2066.4	2068.9	2067.6
32.5°	2083.0	2085.5	2091.9	2095.8	2104.7	2112.4	2121.3	2129.0	2132.9	2136.7	2135.4
35°	2159.7	2166.1	2172.5	2176.3	2185.3	2191.7	2203.2	2210.9	2218.5	2216.0	2217.2
37.5°	2273.5	2278.6	2279.9	2282.5	2291.4	2296.5	2309.3	2319.5	2323.4	2325.9	2327.2
40°	2427.0	2427.0	2433.3	2428.2	2439.7	2441.0	2456.4	2470.4	2474.3	2484.5	2476.8
42.5°	2606.0	2604.7	2608.5	2604.7	2604.7	2617.5	2630.3	2655.8	2658.4	2671.2	2663.5
45°	2800.3	2800.3	2796.5	2797.8	2800.3	2814.4	2829.7	2857.9	2870.7	2878.3	2873.2
47.5°	3011.3	3006.2	3004.9	3003.6	3011.3	3026.7	3049.7	3076.5	3108.5	3111.1	3108.5
50°	3224.9	3223.6	3214.6	3222.3	3227.4	3235.1	3278.6	3314.4	3347.6	3368.1	3361.7
52.5°	3449.9	3438.4	3438.4	3438.4	3451.2	3475.5	3513.8	3562.4	3607.2	3628.9	3625.1
55°	3677.5	3673.7	3662.2	3657.1	3673.7	3708.2	3763.2	3822.0	3880.8	3914.1	3901.3
57.5°	3885.9	3879.5	3880.8	3882.1	3901.3	3947.3	4011.3	4089.3	4153.2	4189.0	4180.0
60°	4049.6	4041.9	4056.0	4059.8	4094.4	4171.1	4273.4	4371.8	4456.2	4492.0	4478.0
62.5°	4235.0	4229.9	4238.9	4237.6	4274.7	4360.3	4497.2	4654.4	4782.3	4828.3	4807.9
65°	4534.2	4518.9	4515.1	4501.0	4525.3	4591.8	4728.6	4911.5	5116.0	5233.7	5205.5
67.5°	4892.3	4888.4	4875.6	4868.0	4876.9	4960.0	5091.7	5268.2	5476.6	5639.0	5674.8
70°	5128.8	5133.9	5146.7	5165.9	5240.1	5401.2	5641.6	5908.8	6195.3	6316.7	6295.0
72.5°	5084.1	5091.7	5102.0	5126.3	5223.5	5416.5	5733.6	6132.6	6491.9	6653.0	6514.9
75°	4865.4	4871.8	4894.8	4931.9	5050.8	5284.8	5626.2	6049.5	6420.3	6581.4	6436.9
76°	4663.4	4683.8	4726.0	4769.5	4912.7	5167.2	5531.6	5983.0	6375.6	6539.2	6399.8
77.5°	4205.6	4223.5	4258.0	4333.5	4495.9	4821.9	5247.7	5691.5	6100.6	6247.7	6130.0
80°	3164.8	3180.1	3212.1	3302.9	3443.5	3645.5	3975.4	4408.9	4857.7	5050.8	4974.1
82.5°	1336.2	1354.1	1480.7	1612.4	1767.2	1985.8	2200.6	2584.2	2914.1	3134.1	3016.4
85°	147.0	181.6	223.8	304.3	373.4	497.4	618.9	851.6	1076.7	1213.5	1072.8
87.5°	25.6	29.4	42.2	53.7	60.1	69.0	83.1	116.4	158.6	136.8	139.4
90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	2.6	2.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
97.5°	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
100°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
102.5°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
105°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
107.5°	1.3	1.3	1.3	1.3	2.6	2.6	1.3	1.3	1.3	2.6	1.3



REPORT NUMBER: P157809

CATALOG NUMBER: VST-E07-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
112.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
115°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
117.5°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
120°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
122.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
125°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
127.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
130°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
132.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
135°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
137.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
140°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
142.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
145°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	1.3
147.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
150°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0
152.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0
155°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	1.3
157.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0
160°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0
162.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0
165°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	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: P157809

CATALOG NUMBER: VST-E07-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2
2.5°	1946.2	1946.2	1948.7	1947.4	1947.4	1948.7	1951.3	1950.0
5°	1947.4	1948.7	1946.2	1947.4	1948.7	1948.7	1950.0	1948.7
7.5°	1944.9	1944.9	1944.9	1946.2	1947.4	1946.2	1947.4	1947.4
10°	1939.8	1941.1	1939.8	1942.3	1943.6	1943.6	1944.9	1944.9
12.5°	1935.9	1935.9	1935.9	1938.5	1939.8	1939.8	1941.1	1939.8
15°	1932.1	1932.1	1930.8	1933.4	1935.9	1935.9	1937.2	1937.2
17.5°	1930.8	1930.8	1929.5	1932.1	1934.7	1934.7	1935.9	1935.9
20°	1934.7	1935.9	1933.4	1935.9	1938.5	1939.8	1939.8	1939.8
22.5°	1950.0	1948.7	1944.9	1946.2	1947.4	1947.4	1947.4	1947.4
25°	1973.0	1970.5	1966.6	1965.3	1964.1	1962.8	1962.8	1962.8
27.5°	2012.7	2008.8	2002.4	2001.2	1999.9	1997.3	1997.3	1997.3
30°	2060.0	2054.9	2047.2	2044.6	2040.8	2038.2	2037.0	2035.7
32.5°	2127.7	2117.5	2108.6	2102.2	2098.3	2090.7	2089.4	2086.8
35°	2205.7	2198.1	2185.3	2181.4	2175.1	2171.2	2169.9	2163.5
37.5°	2313.2	2304.2	2292.7	2290.1	2288.9	2285.0	2285.0	2283.7
40°	2462.8	2453.8	2443.6	2433.3	2435.9	2437.2	2437.2	2432.1
42.5°	2645.6	2631.5	2611.1	2617.5	2613.6	2608.5	2618.8	2612.4
45°	2854.0	2834.9	2819.5	2813.1	2813.1	2806.7	2817.0	2817.0
47.5°	3085.5	3054.8	3026.7	3027.9	3017.7	3020.3	3026.7	3035.6
50°	3329.7	3288.8	3261.9	3249.2	3238.9	3242.8	3254.3	3256.8
52.5°	3582.9	3533.0	3497.2	3478.0	3465.3	3470.4	3479.3	3487.0
55°	3846.3	3791.3	3737.6	3717.2	3701.8	3712.0	3713.3	3723.5
57.5°	4121.2	4045.8	3983.1	3952.4	3937.1	3947.3	3955.0	3965.2
60°	4398.7	4311.7	4237.6	4201.8	4180.0	4194.1	4212.0	4217.1
62.5°	4720.9	4600.7	4517.6	4466.5	4456.2	4470.3	4475.4	4490.8
65°	5102.0	4957.5	4842.4	4779.7	4777.2	4784.9	4796.4	4800.2
67.5°	5536.7	5375.6	5220.9	5158.2	5133.9	5157.0	5168.5	5183.8
70°	6150.5	5929.3	5705.5	5566.1	5507.3	5489.4	5494.5	5511.2
72.5°	6219.6	5981.7	5720.9	5531.6	5428.0	5380.7	5379.5	5382.0
75°	6068.7	5688.9	5504.8	5287.4	5140.3	5063.6	5053.4	5052.1
76°	5993.2	5544.4	5278.4	5105.8	4929.4	4851.4	4839.8	4833.4
77.5°	5674.8	5192.8	4792.5	4687.7	4518.9	4420.4	4440.9	4424.3
80°	4549.6	4071.4	3694.1	3398.8	3407.7	3336.1	3306.7	3297.7
82.5°	2681.4	2288.9	1872.0	1627.8	1395.1	1333.7	1148.3	1106.1
85°	856.7	607.4	368.3	267.2	181.6	152.2	118.9	108.7
87.5°	113.8	89.5	72.9	70.3	63.9	55.0	35.8	25.6
90°	1.3	1.3	1.3	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°	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
97.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
100°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
102.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3
105°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
107.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6



REPORT NUMBER: P157809

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
112.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
115°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
117.5°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
120°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
122.5°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
125°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
127.5°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
130°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
132.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
135°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
137.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
140°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
142.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
145°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
147.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
150°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
152.5°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
155°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
157.5°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
160°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
162.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
165°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
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)