

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: P157713

Luminaire Tested: **VTS-F08-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157713
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: MCGRAW-EDISON
Catalog Number: VTS-F08-LED-E1-5XQ-8030
Description: VENTUS LED SITE LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

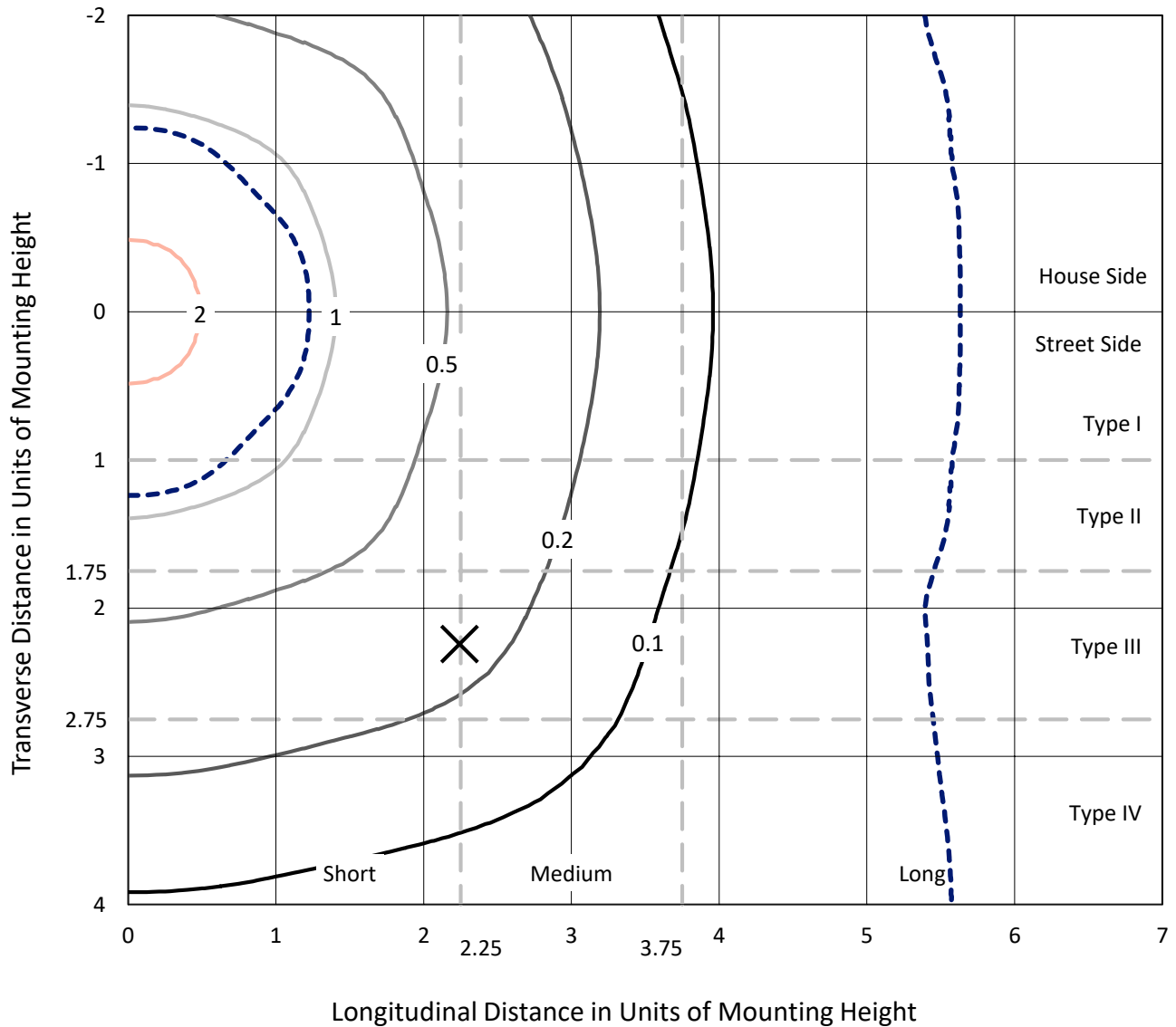
Lumens per Lamp: N/A
Luminaire Lumens: 17627.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G4

Input Watts (W): 204.4
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

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Iso-Footcandle Lines of Horizontal Illumination

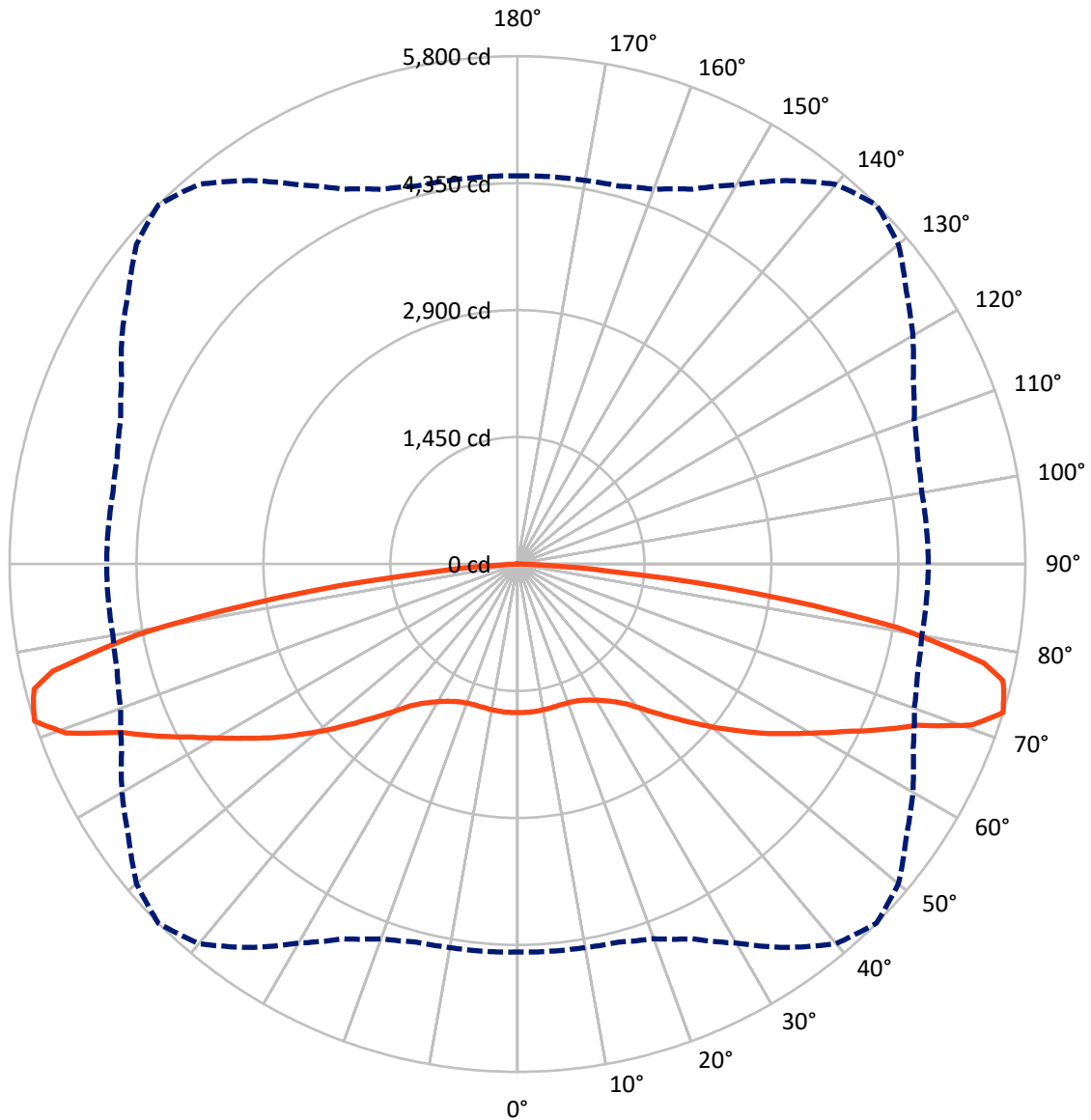
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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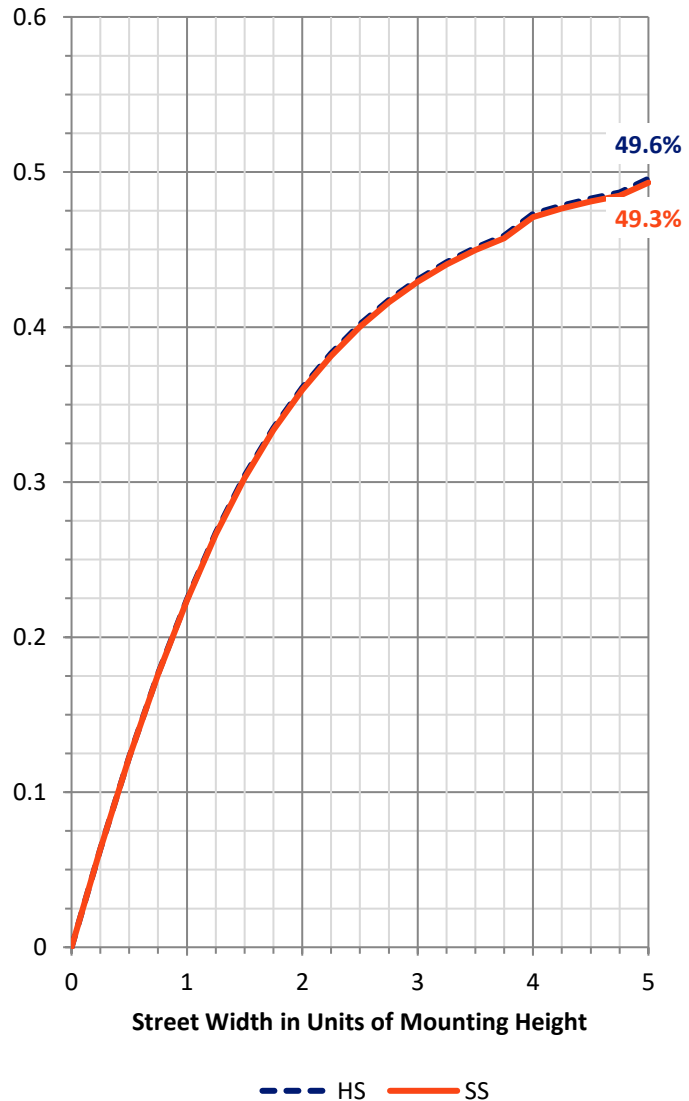
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8809.6	4.2	8813.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8809.6	4.2	8813.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	17619.3	8.5	17627.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	0.9
10°-20°	478.1	2.7
20°-30°	799.5	4.5
30°-40°	1215.2	6.9
40°-50°	1924.7	10.9
50°-60°	2944.1	16.7
60°-70°	4213.5	23.9
70°-80°	4821.2	27.3
80°-90°	1061.1	6.0
90°-100°	0.9	0.0
100°-110°	1.8	0.0
110°-120°	1.2	0.0
120°-130°	1.4	0.0
130°-140°	1.3	0.0
140°-150°	1.0	0.0
150°-160°	0.7	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	17619.3	100.0
0°-180°	17627.7	100.0



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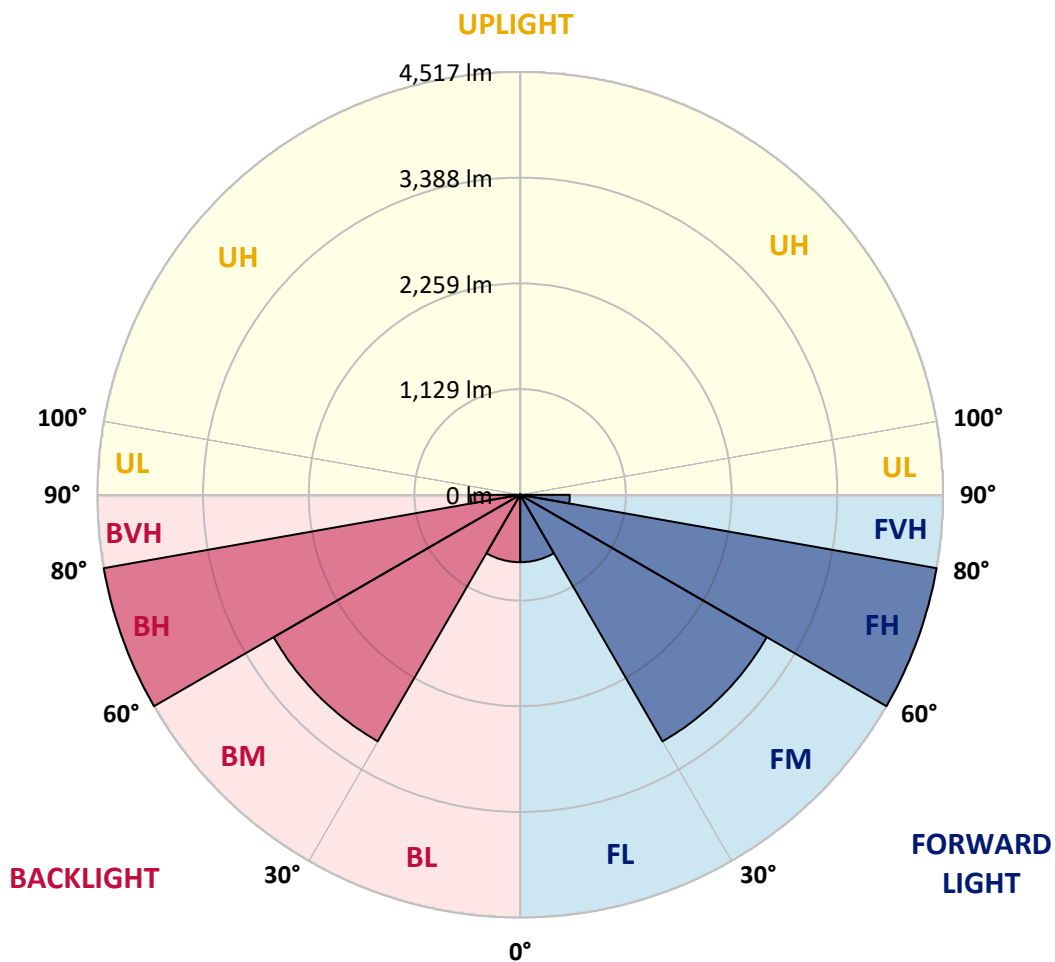
CATALOG NUMBER: VTS-F08-LED-E1-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.8	4.1			
FM	(30°-60°)	3042.0	17.3			
FH	(60°-80°)	4517.3	25.6			G2/5000
FVH	(80°-90°)	530.5	3.0			G4/750
BL	(0°-30°)	719.8	4.1	B2/1000		
BM	(30°-60°)	3042.0	17.3	B3/5000		
BH	(60°-80°)	4517.3	25.6	B4/5000		G2/5000
BVH	(80°-90°)	530.5	3.0			G4/750
UL	(90°-100°)	0.9	0.0		U1/10	
UH	(100°-180°)	4.2	0.0		U1/10	

BUG Rating: B4-U1-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7
2.5°	1697.8	1695.6	1696.7	1698.9	1697.8	1697.8	1696.7	1696.7	1698.9	1696.7	1697.8
5°	1698.9	1696.7	1697.8	1698.9	1697.8	1698.9	1697.8	1697.8	1697.8	1696.7	1698.9
7.5°	1694.5	1694.5	1695.6	1695.6	1694.5	1695.6	1695.6	1695.6	1694.5	1694.5	1696.7
10°	1692.2	1691.1	1691.1	1692.2	1691.1	1691.1	1692.2	1692.2	1690.0	1690.0	1692.2
12.5°	1688.9	1687.8	1687.8	1687.8	1686.7	1686.7	1687.8	1687.8	1686.7	1685.5	1688.9
15°	1686.7	1685.5	1685.5	1685.5	1683.3	1684.4	1684.4	1684.4	1683.3	1682.2	1685.5
17.5°	1685.5	1684.4	1684.4	1684.4	1683.3	1683.3	1683.3	1683.3	1682.2	1682.2	1684.4
20°	1687.8	1687.8	1687.8	1687.8	1686.7	1686.7	1686.7	1687.8	1687.8	1687.8	1690.0
22.5°	1693.3	1693.3	1694.5	1695.6	1695.6	1697.8	1698.9	1700.0	1700.0	1701.1	1703.4
25°	1707.8	1707.8	1709.0	1710.1	1713.4	1715.6	1720.1	1722.3	1723.4	1723.4	1724.6
27.5°	1734.6	1735.7	1737.9	1740.2	1744.6	1748.0	1752.4	1756.9	1758.0	1759.1	1760.2
30°	1768.0	1769.2	1773.6	1775.8	1781.4	1788.1	1793.7	1798.1	1801.5	1803.7	1802.6
32.5°	1816.0	1818.2	1823.8	1827.1	1834.9	1841.6	1849.4	1856.1	1859.4	1862.8	1861.7
35°	1882.9	1888.4	1894.0	1897.4	1905.2	1910.7	1920.8	1927.4	1934.1	1931.9	1933.0
37.5°	1982.1	1986.5	1987.6	1989.9	1997.7	2002.1	2013.3	2022.2	2025.5	2027.8	2028.9
40°	2115.8	2115.8	2121.4	2117.0	2127.0	2128.1	2141.5	2153.7	2157.1	2166.0	2159.3
42.5°	2271.9	2270.8	2274.1	2270.8	2270.8	2281.9	2293.1	2315.4	2317.6	2328.8	2322.1
45°	2441.4	2441.4	2438.0	2439.1	2441.4	2453.6	2467.0	2491.5	2502.7	2509.4	2504.9
47.5°	2625.3	2620.8	2619.7	2618.6	2625.3	2638.7	2658.7	2682.2	2710.0	2712.3	2710.0
50°	2811.5	2810.4	2802.5	2809.2	2813.7	2820.4	2858.3	2889.5	2918.5	2936.3	2930.7
52.5°	3007.7	2997.6	2997.6	2997.6	3008.8	3030.0	3063.4	3105.8	3144.8	3163.7	3160.4
55°	3206.1	3202.8	3192.7	3188.3	3202.8	3232.9	3280.8	3332.1	3383.3	3412.3	3401.2
57.5°	3387.8	3382.2	3383.3	3384.5	3401.2	3441.3	3497.1	3565.1	3620.8	3652.0	3644.2
60°	3530.5	3523.8	3536.1	3539.4	3569.5	3636.4	3725.6	3811.4	3885.0	3916.2	3903.9
62.5°	3692.1	3687.7	3695.5	3694.4	3726.7	3801.4	3920.7	4057.8	4169.3	4209.4	4191.6
65°	3953.0	3939.6	3936.3	3924.0	3945.2	4003.2	4122.4	4281.9	4460.2	4562.8	4538.3
67.5°	4265.1	4261.8	4250.6	4244.0	4251.8	4324.2	4439.0	4592.9	4774.6	4916.2	4947.4
70°	4471.4	4475.8	4487.0	4503.7	4568.4	4708.8	4918.4	5151.4	5401.1	5507.0	5488.0
72.5°	4432.4	4439.0	4448.0	4469.1	4553.9	4722.2	4998.7	5346.5	5659.7	5800.2	5679.8
75°	4241.7	4247.3	4267.4	4299.7	4403.4	4607.4	4905.0	5274.0	5597.3	5737.8	5611.8
76°	4065.6	4083.4	4120.2	4158.1	4283.0	4504.8	4822.5	5216.0	5558.3	5701.0	5579.5
77.5°	3666.5	3682.1	3712.2	3778.0	3919.6	4203.8	4575.0	4961.9	5318.6	5446.8	5344.2
80°	2759.1	2772.5	2800.3	2879.5	3002.1	3178.2	3465.8	3843.8	4235.0	4403.4	4336.5
82.5°	1164.9	1180.5	1290.9	1405.7	1540.6	1731.2	1918.5	2253.0	2540.6	2732.3	2629.8
85°	128.2	158.3	195.1	265.3	325.5	433.6	539.6	742.4	938.6	1057.9	935.3
87.5°	22.3	25.6	36.8	46.8	52.4	60.2	72.5	101.4	138.2	119.3	121.5
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
97.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
100°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
102.5°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
105°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
107.5°	1.1	1.1	1.1	1.1	2.2	2.2	1.1	1.1	1.1	2.2	1.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
112.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
115°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
117.5°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
120°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
122.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
125°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
127.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
130°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
132.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
135°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
137.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
140°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
142.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
145°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	1.1
147.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
150°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
152.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0
155°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	1.1
157.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0
160°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0
162.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0
165°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7	1696.7
2.5°	1696.7	1696.7	1698.9	1697.8	1697.8	1698.9	1701.1	1700.0
5°	1697.8	1698.9	1696.7	1697.8	1698.9	1698.9	1700.0	1698.9
7.5°	1695.6	1695.6	1695.6	1696.7	1697.8	1696.7	1697.8	1697.8
10°	1691.1	1692.2	1691.1	1693.3	1694.5	1694.5	1695.6	1695.6
12.5°	1687.8	1687.8	1687.8	1690.0	1691.1	1691.1	1692.2	1691.1
15°	1684.4	1684.4	1683.3	1685.5	1687.8	1687.8	1688.9	1688.9
17.5°	1683.3	1683.3	1682.2	1684.4	1686.7	1686.7	1687.8	1687.8
20°	1686.7	1687.8	1685.5	1687.8	1690.0	1691.1	1691.1	1691.1
22.5°	1700.0	1698.9	1695.6	1696.7	1697.8	1697.8	1697.8	1697.8
25°	1720.1	1717.9	1714.5	1713.4	1712.3	1711.2	1711.2	1711.2
27.5°	1754.7	1751.3	1745.7	1744.6	1743.5	1741.3	1741.3	1741.3
30°	1795.9	1791.4	1784.8	1782.5	1779.2	1777.0	1775.8	1774.7
32.5°	1855.0	1846.1	1838.3	1832.7	1829.3	1822.7	1821.5	1819.3
35°	1923.0	1916.3	1905.2	1901.8	1896.2	1892.9	1891.8	1886.2
37.5°	2016.6	2008.8	1998.8	1996.6	1995.5	1992.1	1992.1	1991.0
40°	2147.1	2139.3	2130.3	2121.4	2123.6	2124.8	2124.8	2120.3
42.5°	2306.5	2294.2	2276.4	2281.9	2278.6	2274.1	2283.1	2277.5
45°	2488.2	2471.5	2458.1	2452.5	2452.5	2446.9	2455.9	2455.9
47.5°	2690.0	2663.2	2638.7	2639.8	2630.9	2633.1	2638.7	2646.5
50°	2902.9	2867.2	2843.8	2832.6	2823.7	2827.1	2837.1	2839.3
52.5°	3123.6	3080.1	3048.9	3032.2	3021.0	3025.5	3033.3	3040.0
55°	3353.2	3305.3	3258.5	3240.7	3227.3	3236.2	3237.3	3246.2
57.5°	3592.9	3527.2	3472.5	3445.8	3432.4	3441.3	3448.0	3456.9
60°	3834.8	3759.0	3694.4	3663.2	3644.2	3656.5	3672.1	3676.5
62.5°	4115.8	4011.0	3938.5	3893.9	3885.0	3897.3	3901.7	3915.1
65°	4448.0	4322.0	4221.7	4167.0	4164.8	4171.5	4181.5	4184.9
67.5°	4827.0	4686.5	4551.6	4497.0	4475.8	4495.9	4505.9	4519.3
70°	5362.1	5169.2	4974.1	4852.6	4801.3	4785.7	4790.2	4804.7
72.5°	5422.3	5214.9	4987.5	4822.5	4732.2	4691.0	4689.9	4692.1
75°	5290.7	4959.6	4799.1	4609.6	4481.4	4414.5	4405.6	4404.5
76°	5225.0	4833.7	4601.8	4451.3	4297.5	4229.5	4219.4	4213.9
77.5°	4947.4	4527.1	4178.2	4086.8	3939.6	3853.8	3871.6	3857.1
80°	3966.4	3549.4	3220.6	2963.1	2970.9	2908.5	2882.8	2875.0
82.5°	2337.7	1995.5	1632.0	1419.1	1216.2	1162.7	1001.1	964.3
85°	746.9	529.5	321.1	233.0	158.3	132.7	103.7	94.8
87.5°	99.2	78.0	63.5	61.3	55.7	47.9	31.2	22.3
90°	1.1	1.1	1.1	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°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
100°	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
102.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
105°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
107.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



REPORT NUMBER: P157713

CATALOG NUMBER: VTS-F08-LED-E1-5XQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
112.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
115°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
117.5°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
120°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
122.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
125°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
127.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
130°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
132.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
135°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
137.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
140°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
142.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
145°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
147.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
150°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
152.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
155°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
157.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
160°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
162.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
165°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
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)