

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: P159221

Luminaire Tested: **VTS-E05-LED-E1-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159221
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E05-LED-E1-T2-7050
Description: VENTUS LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15836.5 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

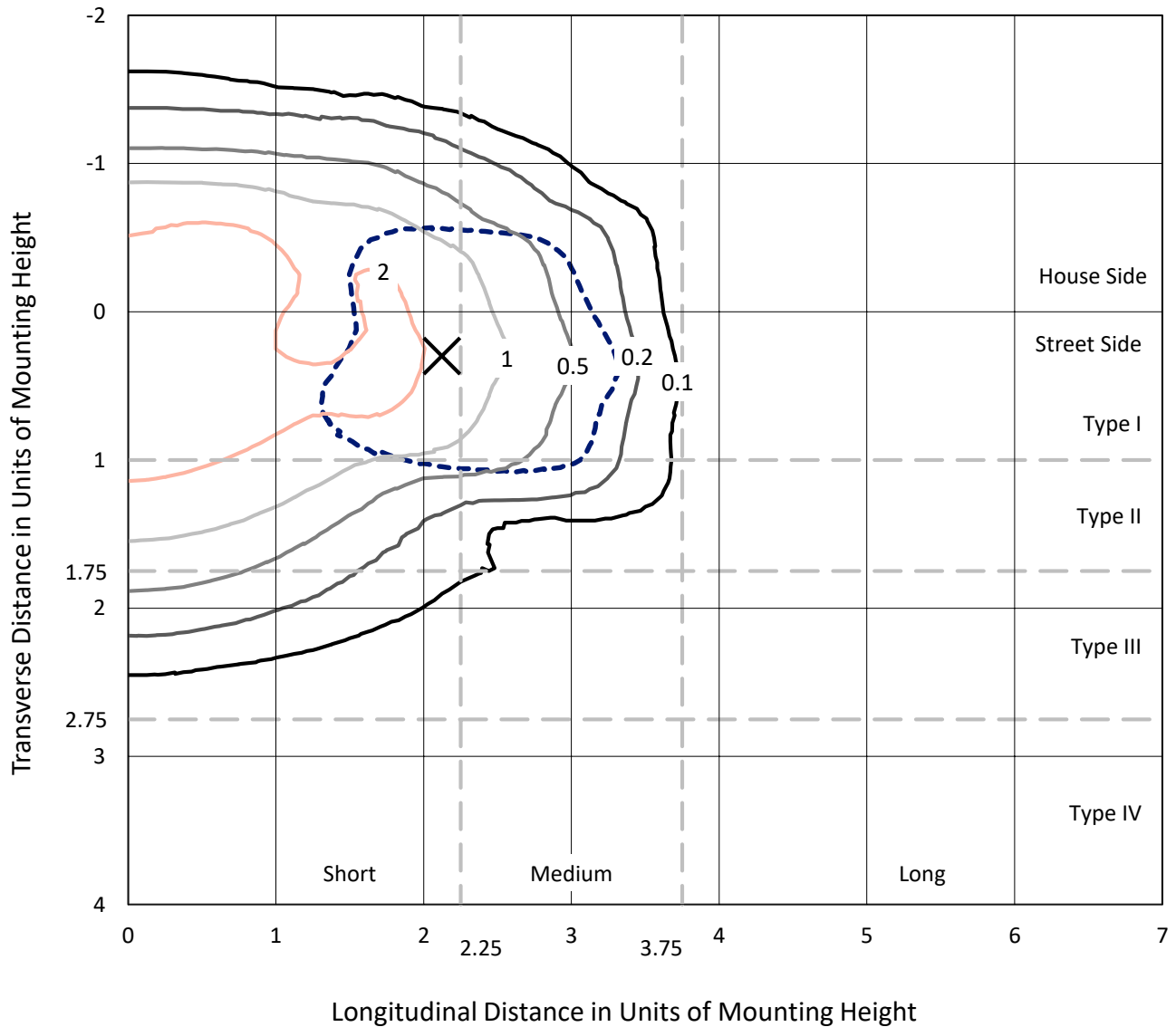
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

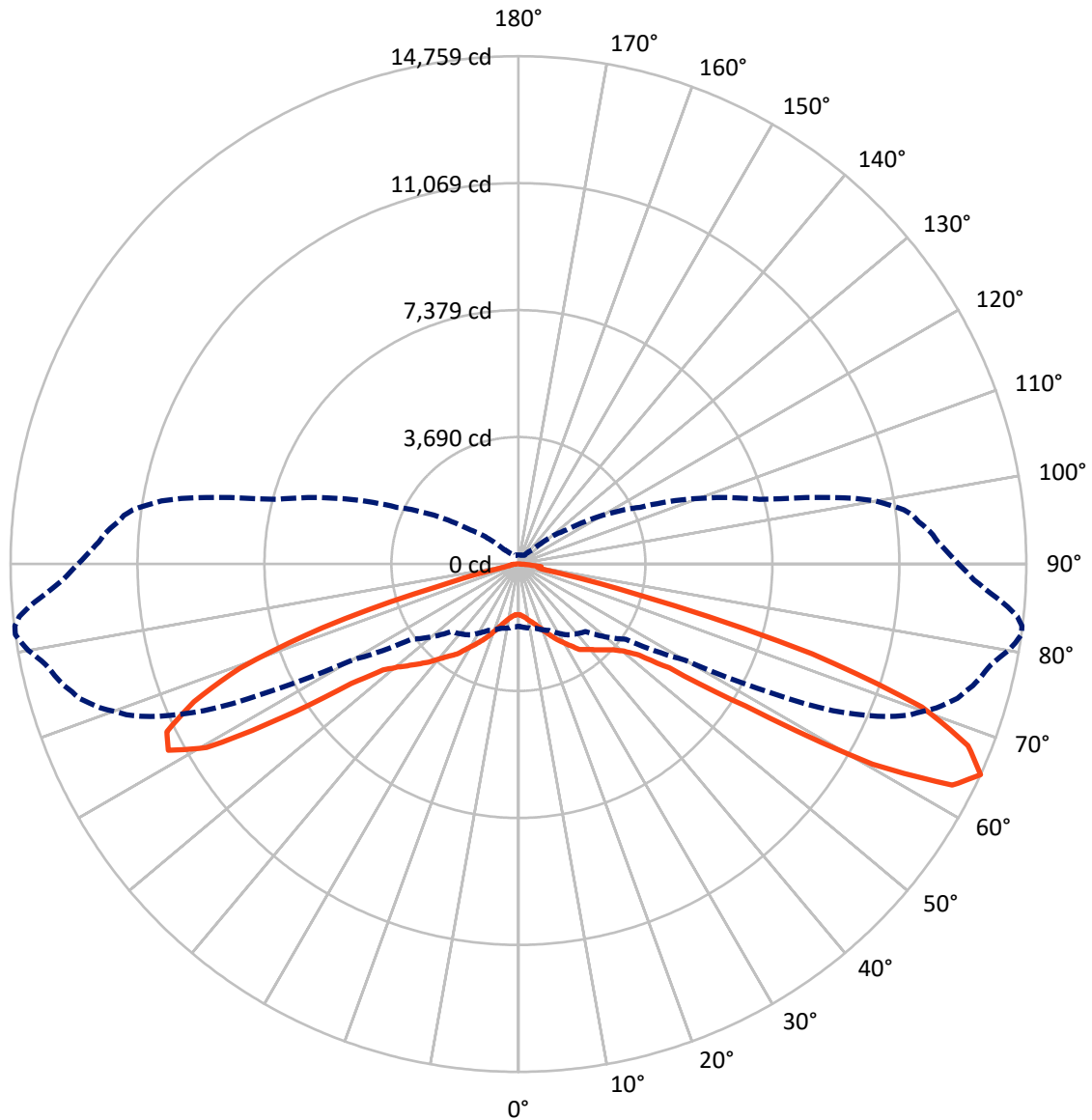


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5896.4	0.0	5896.4
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	9940.0	0.0	9940.0
	% Fixture	62.8	0.0	62.8
Total	Lumens	15836.5	0.0	15836.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	0.9
10°-20°	524.1	3.3
20°-30°	1038.6	6.6
30°-40°	1780.3	11.2
40°-50°	2674.5	16.9
50°-60°	3715.8	23.5
60°-70°	4239.1	26.8
70°-80°	1460.3	9.2
80°-90°	254.5	1.6
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°	15836.5	100.0
0°-180°	15836.5	100.0



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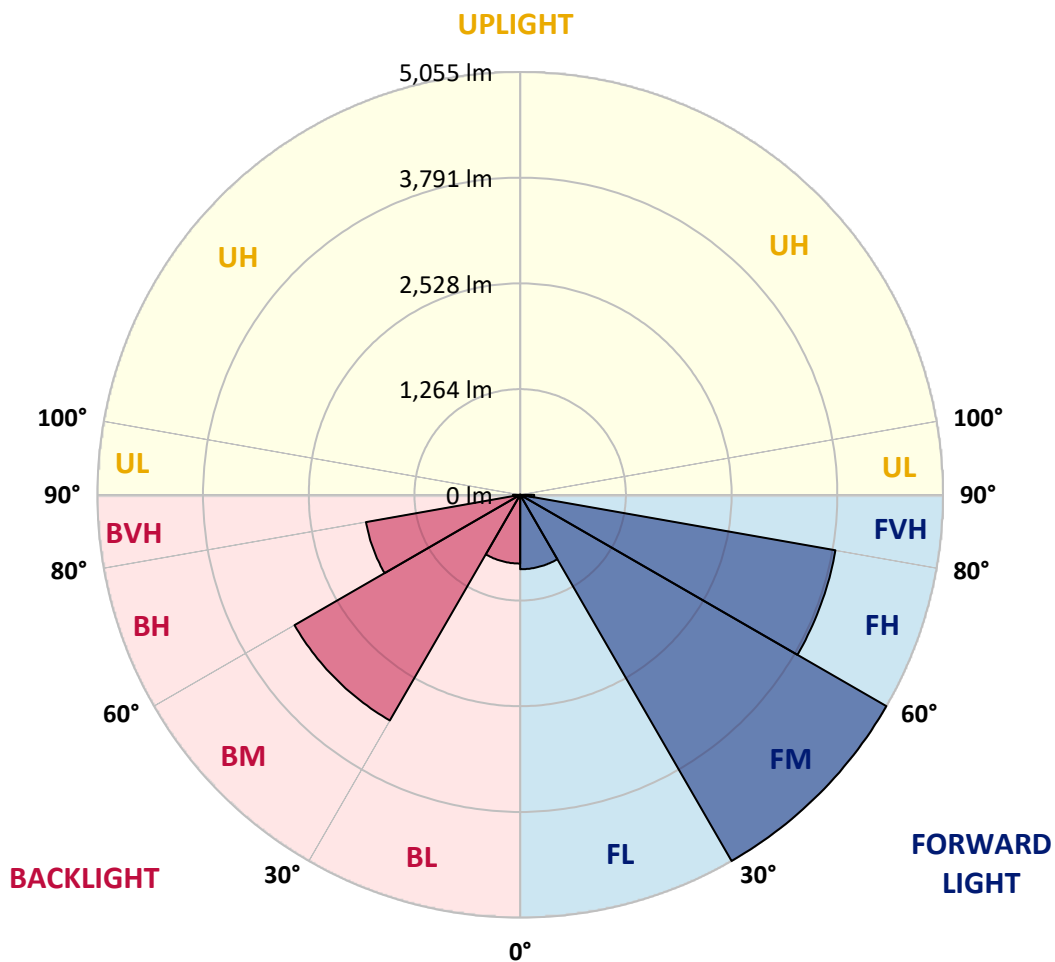
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	889.7	5.6			
FM	(30°-60°)	5055.3	31.9			
FH	(60°-80°)	3827.5	24.2			G2/5000
FVH	(80°-90°)	167.6	1.1			G2/225
BL	(0°-30°)	822.2	5.2	B2/1000		
BM	(30°-60°)	3115.3	19.7	B3/5000		
BH	(60°-80°)	1872.0	11.8	B3/2500		G3/2500
BVH	(80°-90°)	87.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1553.5	1554.5	1553.5	1550.4	1549.4	1540.2	1529.9	1524.8	1523.8	1519.7	1520.7
5°	1650.0	1646.9	1642.8	1637.7	1632.5	1617.1	1599.7	1590.5	1587.4	1584.3	1580.2
7.5°	1736.2	1738.2	1736.2	1729.0	1715.6	1696.2	1673.6	1659.2	1658.2	1655.1	1652.0
10°	1847.0	1852.1	1839.8	1827.5	1809.0	1779.3	1753.6	1735.1	1732.1	1728.0	1725.9
12.5°	1967.0	1968.1	1964.0	1936.3	1905.5	1864.4	1827.5	1809.0	1804.9	1799.8	1797.7
15°	2095.3	2096.3	2073.8	2047.1	1999.9	1950.6	1899.3	1878.8	1873.7	1874.7	1866.5
17.5°	2196.9	2198.9	2177.4	2143.5	2087.1	2028.6	1973.2	1956.8	1953.7	1954.7	1950.6
20°	2241.0	2244.1	2230.8	2205.1	2151.7	2100.4	2060.4	2050.2	2049.1	2047.1	2055.3
22.5°	2239.0	2240.0	2234.9	2224.6	2192.8	2163.0	2157.9	2164.1	2163.0	2165.1	2172.3
25°	2220.5	2223.6	2222.5	2226.6	2221.5	2232.8	2256.4	2278.0	2281.0	2285.1	2298.5
27.5°	2267.7	2273.8	2266.7	2270.8	2279.0	2316.9	2365.2	2398.0	2404.2	2415.5	2426.7
30°	2452.4	2444.2	2434.9	2424.7	2429.8	2453.4	2507.8	2536.5	2539.6	2547.8	2563.2
32.5°	2726.4	2717.1	2708.9	2692.5	2688.4	2678.1	2696.6	2703.8	2702.8	2711.0	2715.1
35°	3035.2	3036.2	3034.2	3046.5	3056.8	3004.4	2939.8	2922.3	2929.5	2920.3	2922.3
37.5°	3298.9	3302.0	3356.4	3424.1	3443.6	3410.8	3269.2	3199.4	3175.8	3172.7	3149.1
40°	3591.4	3591.4	3673.5	3756.6	3811.0	3852.0	3683.7	3560.6	3510.3	3495.9	3437.5
42.5°	3912.5	3896.1	3971.0	4062.4	4162.9	4256.3	4169.1	4030.5	3958.7	3933.1	3830.5
45°	4176.2	4166.0	4202.9	4288.1	4451.2	4633.9	4646.2	4575.4	4532.3	4479.0	4384.5
47.5°	4338.4	4333.2	4354.8	4447.1	4651.3	4946.9	5112.1	5148.0	5122.3	5081.3	4990.0
50°	4402.0	4394.8	4410.2	4512.8	4741.6	5131.6	5496.8	5666.2	5678.5	5687.7	5659.0
52.5°	4379.4	4370.2	4402.0	4488.2	4726.2	5196.2	5797.5	6122.8	6177.2	6223.3	6317.7
55°	4162.9	4148.5	4234.7	4396.9	4659.5	5172.6	6017.1	6561.9	6676.9	6800.0	7009.3
57.5°	3831.5	3819.2	3943.3	4166.0	4541.5	5108.0	6164.8	7117.1	7375.6	7597.3	8191.4
60°	3512.4	3502.1	3575.0	3790.4	4158.8	4792.9	5982.2	7303.8	7737.9	8216.0	9300.6
62.5°	2941.8	2914.1	3011.6	3193.2	3426.2	3964.9	5184.9	6888.2	7557.3	8260.1	9730.6
65°	1808.0	1848.0	1932.2	2133.3	2515.0	2771.5	3807.9	5572.8	6455.2	7336.7	9244.2
67.5°	1148.2	1159.5	1222.1	1361.6	1657.2	1914.7	2307.7	3497.0	4177.3	5044.3	7257.6
70°	984.0	991.2	1044.6	1190.3	1394.5	1711.5	1746.4	1826.5	2070.7	2622.7	4266.5
72.5°	775.7	788.0	830.1	956.3	1202.6	1543.3	2155.8	1443.7	1394.5	1440.7	2082.0
75°	461.7	476.1	511.0	579.7	772.7	1180.0	2258.5	1679.7	1565.8	1476.6	1436.5
77.5°	244.2	234.0	257.6	297.6	397.1	629.0	1697.2	2058.4	1978.3	1871.6	1644.8
80°	121.1	125.2	132.4	140.6	177.5	255.5	848.6	2129.2	2360.0	2462.7	2261.5
82.5°	48.2	54.4	77.0	82.1	97.5	108.8	272.9	1180.0	1690.0	2292.3	2993.1
85°	24.6	23.6	41.0	49.3	57.5	51.3	96.5	440.2	792.2	1234.4	1999.9
87.5°	3.1	4.1	9.2	12.3	17.4	16.4	27.7	95.4	151.9	215.5	302.7
90°	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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1515.6	1514.5	1514.5	1510.4	1510.4	1511.5	1508.4	1506.3	1506.3	1507.3	1503.2
5°	1577.1	1574.0	1574.0	1569.9	1564.8	1564.8	1560.7	1559.7	1557.6	1553.5	1550.4
7.5°	1649.0	1645.9	1640.7	1637.7	1635.6	1632.5	1627.4	1625.4	1621.2	1617.1	1613.0
10°	1722.8	1718.7	1716.7	1711.5	1709.5	1703.3	1700.3	1701.3	1693.1	1690.0	1691.0
12.5°	1796.7	1792.6	1785.4	1783.4	1782.3	1776.2	1773.1	1771.1	1764.9	1763.9	1760.8
15°	1862.4	1864.4	1861.4	1856.2	1852.1	1851.1	1848.0	1846.0	1841.9	1837.8	1833.7
17.5°	1947.5	1950.6	1946.5	1939.3	1939.3	1938.3	1939.3	1938.3	1931.1	1934.2	1932.2
20°	2056.3	2058.4	2048.1	2051.2	2053.2	2052.2	2055.3	2058.4	2056.3	2056.3	2059.4
22.5°	2181.5	2184.6	2178.4	2182.5	2188.7	2183.6	2192.8	2191.8	2193.8	2196.9	2197.9
25°	2309.8	2315.9	2310.8	2322.1	2318.0	2322.1	2333.4	2330.3	2335.4	2343.6	2346.7
27.5°	2438.0	2442.1	2443.2	2450.3	2457.5	2463.7	2478.0	2478.0	2482.1	2496.5	2496.5
30°	2572.4	2576.6	2580.7	2590.9	2595.0	2606.3	2620.7	2624.8	2622.7	2643.2	2649.4
32.5°	2727.4	2731.5	2738.7	2751.0	2756.1	2767.4	2767.4	2778.7	2786.9	2804.3	2805.4
35°	2933.6	2936.7	2933.6	2932.6	2939.8	2955.2	2956.2	2972.6	2979.8	2997.3	3002.4
37.5°	3139.9	3138.9	3125.5	3111.2	3112.2	3106.0	3101.9	3109.1	3112.2	3113.2	3124.5
40°	3418.0	3391.3	3370.8	3334.8	3318.4	3292.8	3277.4	3276.4	3259.9	3257.9	3261.0
42.5°	3782.2	3751.4	3703.2	3642.7	3596.5	3549.3	3514.4	3493.9	3458.0	3439.5	3424.1
45°	4291.2	4215.2	4157.8	4086.0	3996.7	3914.6	3828.4	3789.4	3720.7	3678.6	3631.4
47.5°	4913.0	4838.1	4749.8	4676.0	4559.0	4445.1	4327.1	4223.4	4103.4	4008.0	3930.0
50°	5588.2	5544.0	5480.4	5411.7	5260.8	5185.9	5037.2	4896.6	4767.3	4597.0	4448.2
52.5°	6280.8	6306.4	6292.1	6267.5	6172.0	6143.3	6015.0	5843.7	5713.4	5596.4	5337.8
55°	7134.5	7165.3	7226.9	7262.8	7251.5	7324.3	7292.5	7159.1	7106.8	7052.4	6868.7
57.5°	8440.7	8660.3	8895.3	9101.6	9149.8	9408.4	9353.0	9486.3	9580.7	9513.0	9453.5
60°	9833.2	10276.4	10675.6	11093.2	11432.9	11687.3	12023.9	12250.7	12393.3	12649.8	12670.4
62.5°	10394.4	10996.8	11503.7	11988.0	12391.2	12744.2	13048.0	13360.9	13617.4	13849.3	14016.6
65°	10086.6	10715.6	11330.3	11821.8	12209.6	12513.4	12843.8	13092.1	13344.5	13493.3	13668.8
67.5°	8385.3	9218.5	9974.8	10528.9	11059.4	11368.2	11759.2	12003.4	12271.2	12428.2	12541.1
70°	5467.1	6551.7	7585.0	8425.4	9141.6	9501.7	9973.7	10307.2	10629.4	10637.6	10825.4
72.5°	2950.1	3857.1	4722.1	5581.0	6397.8	6877.0	7342.8	7748.1	8068.3	7931.8	8118.5
75°	1642.8	2067.6	2540.6	3056.8	3554.4	3828.4	4176.2	4178.3	4343.5	4083.9	4149.6
77.5°	1580.2	1560.7	1567.9	1582.3	1606.9	1554.5	1553.5	1521.7	1472.5	1383.2	1398.6
80°	2075.8	1827.5	1649.0	1368.8	1102.0	898.9	842.4	855.8	895.8	975.8	1077.4
82.5°	3001.4	2792.0	2492.4	2051.2	1610.0	1241.6	1019.9	905.0	899.9	979.9	1133.8
85°	2185.6	2311.8	2292.3	1913.7	1578.2	1281.6	932.7	788.0	652.6	620.8	675.2
87.5°	322.2	266.8	300.6	251.4	182.6	141.6	124.2	99.5	95.4	97.5	106.7
90°	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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1504.3	1500.2	1496.1	1499.1	1496.1	1495.0	1492.0	1489.9	1488.9	1488.9	1488.9
5°	1550.4	1545.3	1542.2	1541.2	1538.1	1535.1	1534.0	1528.9	1527.9	1527.9	1524.8
7.5°	1613.0	1608.9	1603.8	1600.7	1598.7	1593.5	1588.4	1587.4	1586.4	1582.3	1579.2
10°	1685.9	1679.7	1673.6	1673.6	1669.5	1668.4	1663.3	1656.1	1655.1	1649.0	1646.9
12.5°	1754.6	1752.6	1745.4	1743.4	1740.3	1737.2	1734.1	1731.0	1728.0	1722.8	1724.9
15°	1836.7	1831.6	1825.4	1826.5	1825.4	1821.3	1817.2	1814.2	1812.1	1810.0	1810.0
17.5°	1935.2	1933.2	1932.2	1927.0	1922.9	1926.0	1926.0	1926.0	1920.9	1921.9	1922.9
20°	2060.4	2062.5	2060.4	2056.3	2055.3	2058.4	2051.2	2062.5	2056.3	2052.2	2054.3
22.5°	2198.9	2206.1	2197.9	2198.9	2204.1	2206.1	2198.9	2208.2	2205.1	2198.9	2204.1
25°	2349.8	2354.9	2350.8	2349.8	2352.9	2360.0	2359.0	2358.0	2365.2	2359.0	2362.1
27.5°	2504.7	2507.8	2509.9	2512.9	2515.0	2514.0	2518.1	2518.1	2522.2	2515.0	2518.1
30°	2658.6	2658.6	2662.7	2666.8	2666.8	2666.8	2675.1	2676.1	2669.9	2672.0	2664.8
32.5°	2822.8	2823.8	2827.9	2827.9	2836.2	2837.2	2846.4	2834.1	2846.4	2836.2	2838.2
35°	3015.7	3029.1	3031.1	3041.4	3049.6	3052.7	3052.7	3053.7	3065.0	3056.8	3059.8
37.5°	3128.6	3131.7	3139.9	3145.0	3145.0	3149.1	3152.2	3149.1	3152.2	3151.2	3154.2
40°	3262.0	3258.9	3268.1	3270.2	3266.1	3271.2	3270.2	3267.1	3275.3	3269.2	3273.3
42.5°	3424.1	3406.7	3405.6	3413.9	3405.6	3409.7	3408.7	3401.5	3411.8	3414.9	3411.8
45°	3597.5	3588.3	3569.8	3569.8	3561.6	3558.5	3559.6	3558.5	3559.6	3571.9	3576.0
47.5°	3879.7	3823.3	3791.5	3761.7	3737.1	3736.0	3724.8	3730.9	3739.1	3759.7	3778.1
50°	4352.7	4222.4	4142.4	4068.5	4015.2	3996.7	3975.1	3973.1	3980.3	4003.9	4035.7
52.5°	5196.2	5015.6	4845.3	4687.2	4549.8	4444.1	4391.7	4364.0	4353.8	4377.4	4408.1
55°	6739.5	6398.8	6158.7	5998.6	5656.9	5512.2	5326.5	5241.3	5158.2	5166.4	5218.8
57.5°	9376.6	9192.9	8991.8	8711.6	8502.3	8249.9	7786.1	7527.5	7538.8	7599.3	7410.5
60°	12832.5	12646.7	12563.6	12309.2	12163.5	12061.9	11815.6	11386.7	11234.8	11206.1	10859.3
62.5°	14144.9	14189.0	14254.7	14326.5	14322.4	14366.5	14151.0	14011.5	13836.0	13608.2	13265.5
65°	13802.1	13914.0	14047.4	14240.3	14459.9	14622.0	14758.5	14742.1	14577.9	14274.2	13911.9
67.5°	12641.6	12752.4	12849.9	13108.5	13468.7	13798.0	14089.5	14287.5	14177.7	13926.3	13503.5
70°	10897.2	10977.3	11038.8	11263.6	11658.6	12060.8	12441.5	12774.0	12740.1	12435.4	12097.8
72.5°	7895.9	8089.8	8194.5	8179.1	8423.3	8873.8	8927.1	9211.3	9290.4	8962.0	8424.3
75°	3846.9	3849.9	3728.9	3688.8	3701.2	3779.1	3630.4	3639.6	3588.3	3355.4	3163.5
77.5°	1344.2	1307.3	1219.0	1114.4	964.5	824.0	681.3	619.8	599.2	538.7	496.6
80°	1158.5	1212.9	1195.4	1109.2	951.2	758.3	566.4	419.7	358.1	336.6	316.0
82.5°	1315.5	1524.8	1658.2	1651.0	1434.5	1077.4	672.1	385.8	275.0	241.1	221.6
85°	733.7	789.1	804.5	732.6	608.5	415.6	231.9	163.2	138.5	126.2	113.9
87.5°	117.0	106.7	104.7	91.3	86.2	79.0	69.8	65.7	60.5	57.5	57.5
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: P159221

CATALOG NUMBER: VTS-E05-LED-E1-T2-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1487.9	1486.8	1483.7	1480.7	1478.6	1477.6	1476.6	1474.5	1473.5	1472.5	1470.4
5°	1522.7	1520.7	1515.6	1510.4	1508.4	1505.3	1502.2	1500.2	1498.1	1497.1	1493.0
7.5°	1577.1	1575.1	1568.9	1564.8	1563.8	1555.6	1554.5	1551.5	1546.3	1545.3	1539.2
10°	1642.8	1641.8	1636.6	1633.6	1631.5	1627.4	1621.2	1616.1	1611.0	1611.0	1606.9
12.5°	1718.7	1714.6	1717.7	1710.5	1708.5	1704.4	1701.3	1700.3	1694.1	1689.0	1687.9
15°	1808.0	1802.9	1802.9	1800.8	1798.8	1794.7	1793.6	1794.7	1788.5	1790.6	1784.4
17.5°	1918.8	1920.9	1919.8	1919.8	1914.7	1914.7	1906.5	1916.8	1909.6	1914.7	1912.7
20°	2057.3	2058.4	2056.3	2059.4	2061.4	2060.4	2059.4	2058.4	2061.4	2065.6	2062.5
22.5°	2205.1	2205.1	2204.1	2215.4	2203.0	2212.3	2215.4	2209.2	2225.6	2223.6	2226.6
25°	2365.2	2365.2	2373.4	2382.6	2384.7	2377.5	2381.6	2376.5	2386.7	2394.9	2397.0
27.5°	2514.0	2527.3	2533.5	2527.3	2532.4	2543.7	2542.7	2542.7	2549.9	2547.8	2567.3
30°	2666.8	2675.1	2683.3	2679.2	2681.2	2695.6	2696.6	2697.6	2706.9	2720.2	2734.6
32.5°	2841.3	2849.5	2845.4	2858.7	2857.7	2875.1	2878.2	2881.3	2910.0	2904.9	2934.7
35°	3055.7	3064.0	3059.8	3074.2	3072.2	3078.3	3089.6	3101.9	3107.0	3136.8	3160.4
37.5°	3156.3	3156.3	3165.5	3182.0	3188.1	3198.4	3215.8	3231.2	3256.9	3288.7	3325.6
40°	3277.4	3280.5	3292.8	3310.2	3321.5	3345.1	3376.9	3398.5	3437.5	3472.3	3515.4
42.5°	3424.1	3437.5	3451.8	3475.4	3500.0	3537.0	3582.1	3609.8	3661.1	3706.3	3759.7
45°	3595.5	3608.8	3642.7	3685.8	3721.7	3762.7	3799.7	3865.3	3911.5	3958.7	4004.9
47.5°	3802.7	3841.7	3869.4	3920.7	3964.9	4019.3	4065.4	4127.0	4177.3	4234.7	4273.7
50°	4068.5	4116.7	4152.6	4219.3	4262.4	4323.0	4381.5	4427.6	4479.0	4535.4	4567.2
52.5°	4450.2	4499.5	4544.6	4627.7	4681.1	4722.1	4800.1	4857.6	4904.8	4945.8	4980.7
55°	5277.3	5262.9	5388.1	5549.2	5567.6	5716.4	5744.1	5792.4	5879.6	5891.9	5989.4
57.5°	7640.4	7566.5	7748.1	7984.1	7943.1	7868.2	8181.1	8200.6	8156.5	8274.5	8141.1
60°	10910.6	10781.3	10830.5	10895.2	10801.8	10757.7	10773.1	10817.2	10774.1	10726.9	10597.6
62.5°	13094.1	12895.1	12752.4	12632.4	12480.5	12370.7	12247.6	12095.7	12054.7	11882.3	11737.6
65°	13560.0	13250.1	13024.4	12797.6	12588.3	12394.3	12208.6	12078.3	11905.9	11701.7	11550.9
67.5°	13048.0	12664.2	12333.8	12004.4	11767.4	11482.1	11342.6	11130.2	10917.8	10683.8	10545.3
70°	11560.1	11159.9	10744.4	10422.2	10100.0	9747.0	9678.2	9426.8	9304.7	8985.6	8930.2
72.5°	7979.0	7712.2	7526.5	7128.4	6932.4	6751.8	6694.3	6461.4	6486.0	6136.1	6263.3
75°	2837.2	2799.2	2744.8	2520.1	2480.1	2410.3	2391.9	2375.4	2541.7	2310.8	2478.0
77.5°	487.4	484.3	456.6	443.3	468.9	452.5	456.6	448.4	496.6	503.8	492.5
80°	302.7	294.5	285.3	279.1	280.1	274.0	275.0	277.0	280.1	279.1	282.2
82.5°	207.3	200.1	196.0	191.9	198.0	200.1	205.2	210.4	218.6	223.7	229.8
85°	112.9	103.6	103.6	102.6	110.8	117.0	125.2	135.4	149.8	162.1	175.5
87.5°	57.5	55.4	56.4	58.5	65.7	70.8	81.1	90.3	102.6	115.9	128.3
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: P159221

CATALOG NUMBER: VTS-E05-LED-E1-T2-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1469.4	1469.4	1468.4	1468.4	1467.3	1466.3	1465.3	1462.2	1450.9	1440.7	1433.5
5°	1492.0	1488.9	1487.9	1484.8	1483.7	1481.7	1478.6	1475.5	1455.0	1436.5	1423.2
7.5°	1538.1	1534.0	1532.0	1528.9	1525.8	1521.7	1517.6	1514.5	1489.9	1468.4	1451.9
10°	1598.7	1596.6	1595.6	1591.5	1591.5	1585.3	1584.3	1577.1	1550.4	1530.9	1516.6
12.5°	1682.8	1678.7	1677.7	1672.6	1674.6	1672.6	1670.5	1666.4	1646.9	1624.3	1604.8
15°	1787.5	1787.5	1782.3	1778.2	1779.3	1777.2	1781.3	1776.2	1763.9	1743.4	1711.5
17.5°	1913.7	1911.6	1913.7	1910.6	1912.7	1914.7	1909.6	1910.6	1904.5	1878.8	1831.6
20°	2060.4	2057.3	2069.7	2064.5	2075.8	2065.6	2067.6	2070.7	2070.7	2036.8	1973.2
22.5°	2228.7	2226.6	2226.6	2236.9	2241.0	2242.0	2246.1	2249.2	2257.4	2214.3	2112.8
25°	2397.0	2404.2	2405.2	2418.5	2424.7	2424.7	2427.8	2439.1	2463.7	2404.2	2272.8
27.5°	2568.3	2585.8	2589.9	2599.1	2608.4	2617.6	2624.8	2633.0	2673.0	2608.4	2437.0
30°	2739.7	2759.2	2773.6	2783.8	2795.1	2817.7	2821.8	2838.2	2904.9	2825.9	2593.0
32.5°	2940.8	2968.5	2987.0	3000.3	3017.8	3039.3	3051.6	3072.2	3136.8	3007.5	2706.9
35°	3180.9	3197.3	3224.0	3246.6	3256.9	3293.8	3313.3	3318.4	3367.7	3164.5	2791.0
37.5°	3347.2	3374.9	3421.0	3452.8	3471.3	3491.8	3524.7	3546.2	3593.4	3307.1	2833.1
40°	3558.5	3600.6	3637.5	3684.7	3714.5	3729.9	3762.7	3780.2	3786.3	3429.2	2819.7
42.5°	3816.1	3854.1	3903.3	3941.3	3963.8	3981.3	4008.0	4015.2	3935.1	3486.7	2747.9
45°	4058.2	4116.7	4158.8	4186.5	4202.9	4212.2	4228.6	4229.6	4058.2	3458.0	2624.8
47.5°	4318.9	4360.9	4399.9	4419.4	4417.4	4419.4	4413.3	4409.2	4119.8	3358.4	2466.8
50°	4607.2	4634.9	4651.3	4660.6	4665.7	4646.2	4618.5	4600.0	4124.9	3216.8	2306.7
52.5°	4994.1	5028.9	5025.9	5024.8	4983.8	4965.3	4891.4	4853.5	4095.2	3050.6	2126.1
55°	5974.0	5940.1	5873.4	5906.3	5739.0	5651.8	5536.9	5430.2	4134.2	2892.6	1916.8
57.5°	8194.5	8207.8	8018.0	7916.4	7634.2	7281.2	6997.0	6721.0	4485.1	2796.1	1643.8
60°	10511.4	10337.0	10095.9	9728.5	9365.3	8840.9	8335.1	7856.9	4835.0	2695.6	1320.6
62.5°	11523.2	11274.8	10910.6	10435.5	9865.0	9223.7	8593.6	8010.8	4665.7	2370.3	960.4
65°	11317.9	10938.3	10536.1	9979.9	9286.3	8583.4	7847.7	7252.5	3903.3	1768.0	592.1
67.5°	10244.6	9922.4	9497.6	8837.8	8096.0	7364.4	6690.2	6023.2	2899.8	1102.0	331.4
70°	8647.0	8332.0	7901.0	7225.8	6485.0	5785.2	5071.0	4527.2	1848.0	531.5	239.1
72.5°	5998.6	5743.1	5438.4	4957.1	4307.6	3671.4	3188.1	2770.5	1024.1	282.2	218.6
75°	2436.0	2437.0	2381.6	2178.4	1840.8	1587.4	1353.4	1148.2	427.9	240.1	215.5
77.5°	552.0	561.3	613.6	581.8	524.3	490.5	439.2	387.9	260.6	247.3	217.5
80°	279.1	280.1	277.0	278.1	275.0	276.0	271.9	268.8	244.2	254.5	217.5
82.5°	232.9	238.1	237.0	237.0	238.1	238.1	238.1	237.0	253.4	267.8	210.4
85°	184.7	195.0	203.2	211.4	220.6	226.8	229.8	232.9	246.3	263.7	190.9
87.5°	139.6	151.9	162.1	170.3	184.7	184.7	195.0	202.1	202.1	206.2	100.6
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: P159221

CATALOG NUMBER: VTS-E05-LED-E1-T2-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1423.2	1419.1	1415.0	1412.9	1408.8
5°	1412.9	1404.7	1399.6	1399.6	1395.5
7.5°	1442.7	1439.6	1432.4	1428.3	1432.4
10°	1506.3	1501.2	1493.0	1486.8	1489.9
12.5°	1591.5	1571.0	1554.5	1547.4	1542.2
15°	1679.7	1638.7	1605.9	1587.4	1582.3
17.5°	1774.1	1702.3	1653.1	1625.4	1620.2
20°	1870.6	1781.3	1711.5	1675.6	1674.6
22.5°	1986.5	1867.5	1778.2	1731.0	1728.0
25°	2108.6	1944.5	1826.5	1765.9	1759.8
27.5°	2214.3	2006.0	1856.2	1784.4	1778.2
30°	2302.6	2052.2	1880.9	1797.7	1789.5
32.5°	2366.2	2078.9	1891.1	1801.8	1792.6
35°	2386.7	2068.6	1862.4	1764.9	1754.6
37.5°	2359.0	2001.9	1782.3	1674.6	1662.3
40°	2275.9	1885.0	1652.0	1541.2	1525.8
42.5°	2148.7	1741.3	1495.0	1389.3	1369.9
45°	1991.7	1579.2	1339.1	1221.1	1211.8
47.5°	1827.5	1408.8	1163.6	1056.9	1045.6
50°	1650.0	1211.8	992.2	876.3	876.3
52.5°	1438.6	1019.9	793.2	706.0	698.8
55°	1195.4	803.4	632.1	565.4	556.1
57.5°	933.8	617.7	504.8	465.9	455.6
60°	686.5	463.8	406.3	384.8	380.7
62.5°	465.9	353.0	327.3	318.1	317.1
65°	315.0	275.0	267.8	264.7	265.8
67.5°	242.2	228.8	225.7	224.7	224.7
70°	210.4	202.1	199.1	200.1	199.1
72.5°	198.0	186.8	187.8	189.8	188.8
75°	193.9	179.6	183.7	184.7	180.6
77.5°	190.9	171.4	181.6	184.7	173.4
80°	184.7	164.2	188.8	189.8	170.3
82.5°	169.3	145.7	188.8	174.4	153.9
85°	143.7	110.8	213.4	151.9	113.9
87.5°	91.3	65.7	144.7	103.6	68.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)