

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: P159568

Luminaire Tested: **VST-E07-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159568
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
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-T3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (147) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18068.6 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



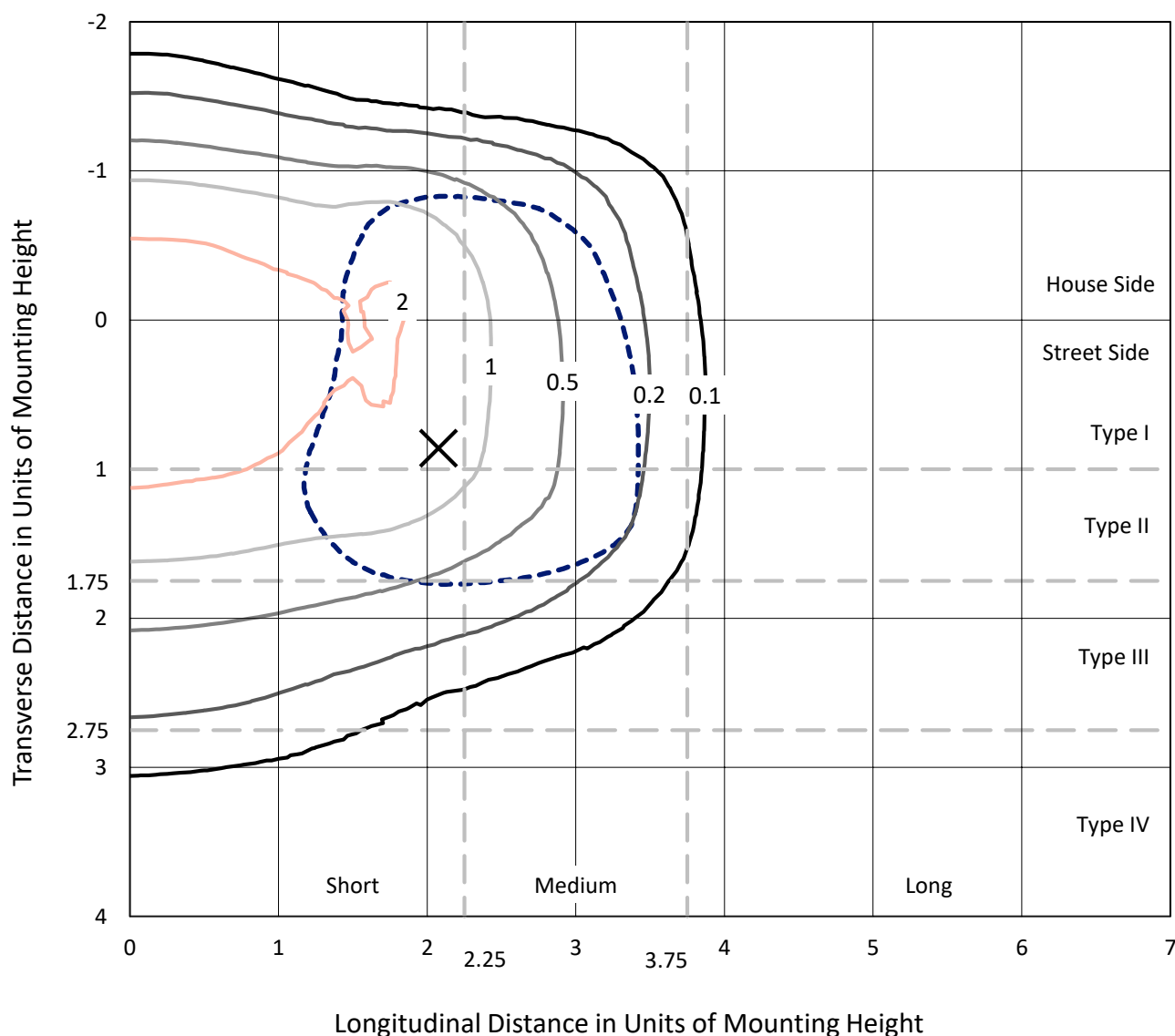
REPORT NUMBER: P159568

CATALOG NUMBER: VST-E07-LED-E-U-T3-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

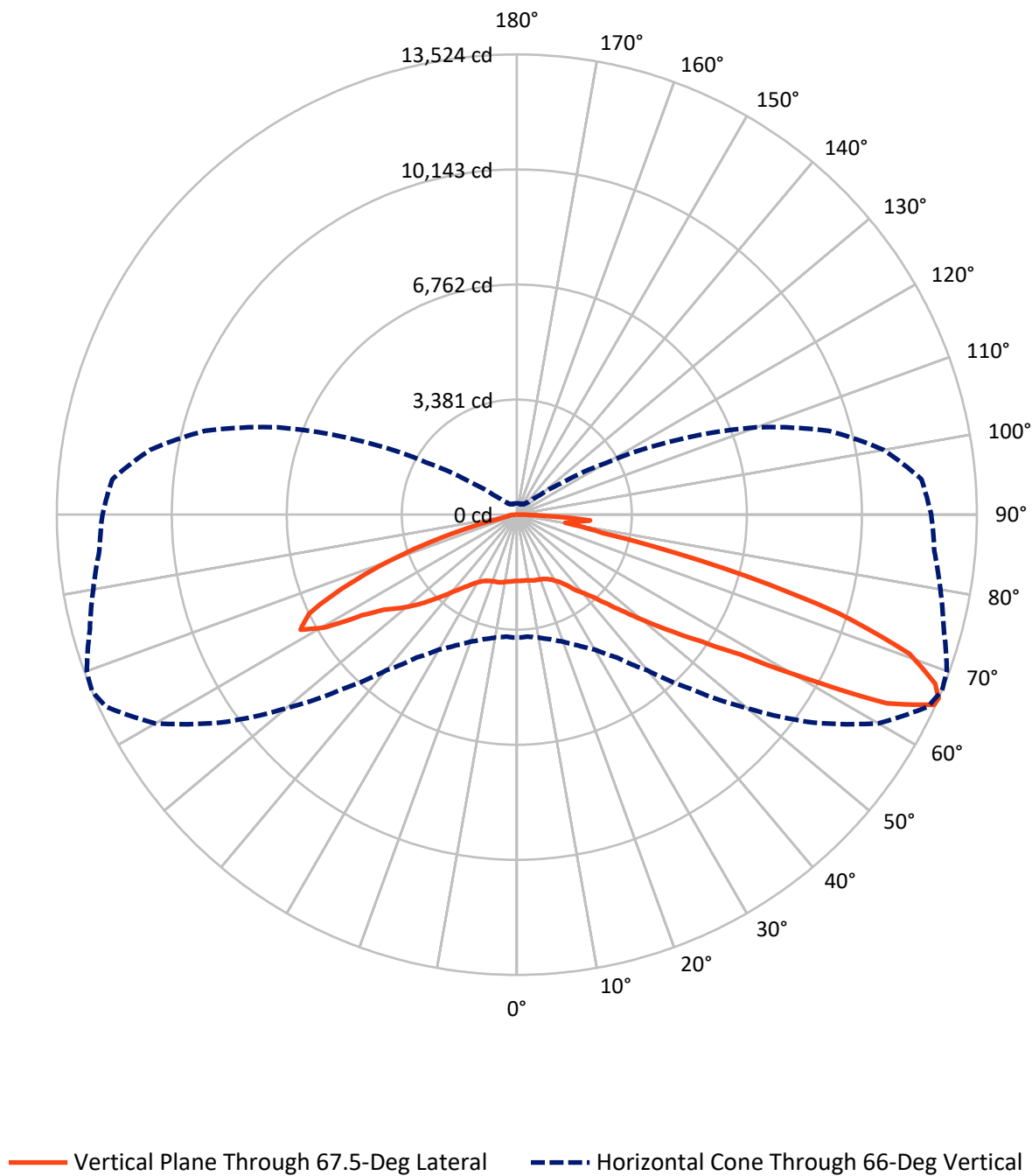


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159568

CATALOG NUMBER: VST-E07-LED-E-U-T3-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P159568

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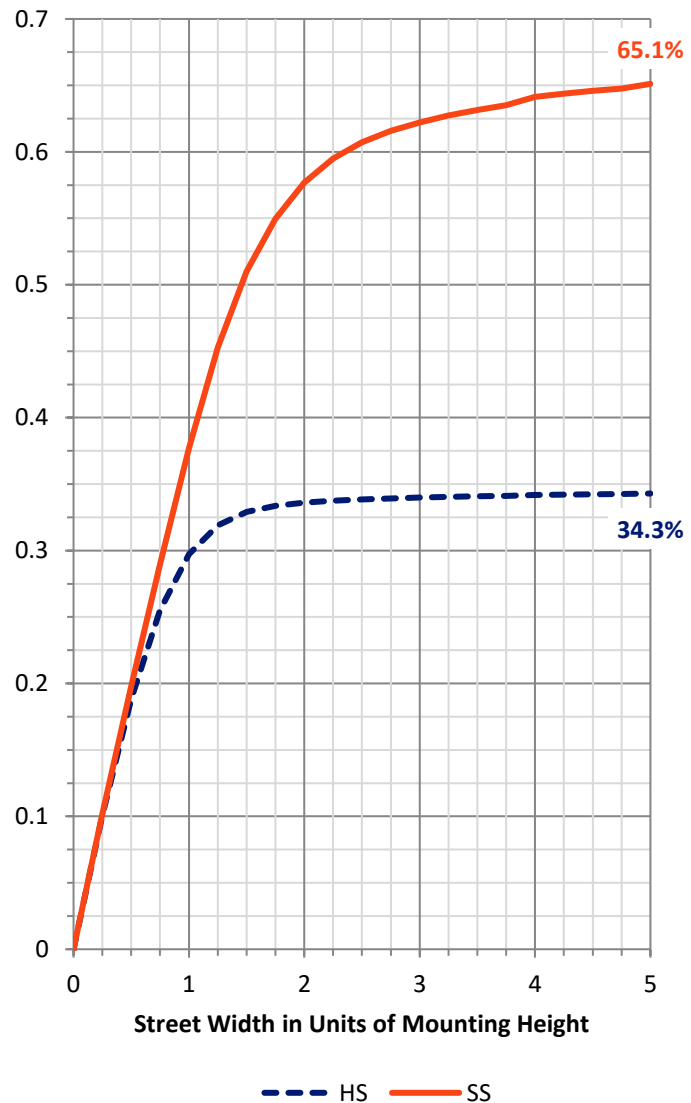
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6252.5	0.0	6252.5
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	11816.1	0.0	11816.1
	% Fixture	65.4	0.0	65.4
Total	Lumens	18068.6	0.0	18068.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.0
10°-20°	554.0	3.1
20°-30°	952.3	5.3
30°-40°	1539.1	8.5
40°-50°	2550.6	14.1
50°-60°	4003.0	22.2
60°-70°	5472.9	30.3
70°-80°	2406.7	13.3
80°-90°	402.8	2.2
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°	18068.6	100.0
0°-180°	18068.6	100.0

Coefficient of Utilization



REPORT NUMBER: P159568

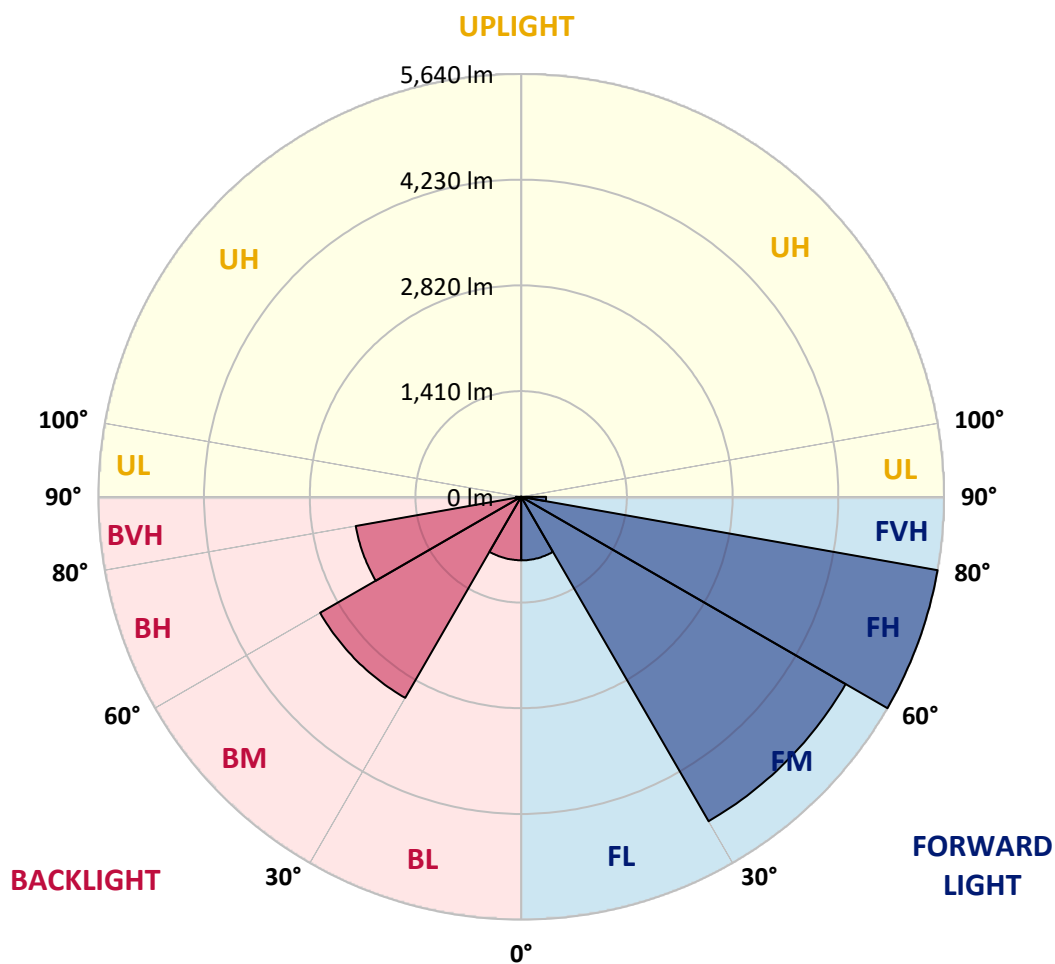
CATALOG NUMBER: VST-E07-LED-E-U-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	847.6	4.7			
FM	(30°-60°)	4996.5	27.7			
FH	(60°-80°)	5639.6	31.2			G3/7500
FVH	(80°-90°)	332.4	1.8			G3/500
BL	(0°-30°)	845.8	4.7	B2/1000		
BM	(30°-60°)	3096.2	17.1	B3/5000		
BH	(60°-80°)	2240.0	12.4	B3/2500		G3/2500
BVH	(80°-90°)	70.5	0.4			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





REPORT NUMBER: P159568

CATALOG NUMBER: VST-E07-LED-E-U-T3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6
2.5°	1946.1	1946.1	1947.3	1946.1	1946.1	1944.9	1949.6	1949.6	1949.6	1948.4	1952.0
5°	1941.3	1941.3	1942.5	1942.5	1943.7	1942.5	1946.1	1947.3	1947.3	1947.3	1950.8
7.5°	1929.5	1933.1	1930.7	1931.9	1933.1	1936.6	1941.3	1943.7	1946.1	1949.6	1950.8
10°	1904.7	1910.6	1909.4	1913.0	1914.2	1924.8	1928.4	1933.1	1941.3	1946.1	1949.6
12.5°	1870.5	1874.0	1875.2	1879.9	1884.6	1897.6	1907.1	1915.4	1927.2	1939.0	1950.8
15°	1843.3	1845.6	1845.6	1850.4	1857.5	1869.3	1881.1	1895.3	1913.0	1933.1	1952.0
17.5°	1851.5	1857.5	1852.7	1851.5	1853.9	1861.0	1871.6	1883.5	1904.7	1927.2	1949.6
20°	1905.9	1907.1	1904.7	1898.8	1894.1	1895.3	1895.3	1897.6	1910.6	1928.4	1946.1
22.5°	1950.8	1955.5	1954.3	1955.5	1954.3	1959.1	1956.7	1952.0	1947.3	1948.4	1956.7
25°	1989.8	1994.5	1994.5	1998.1	2004.0	2013.4	2020.5	2019.3	2012.2	2002.8	1999.2
27.5°	2053.6	2053.6	2053.6	2057.1	2065.4	2077.2	2089.0	2096.1	2102.0	2092.6	2072.5
30°	2154.0	2155.2	2151.7	2152.9	2158.8	2174.1	2188.3	2198.9	2210.7	2209.6	2183.6
32.5°	2263.9	2268.6	2267.5	2272.2	2280.5	2294.6	2310.0	2326.5	2341.9	2351.4	2334.8
35°	2405.7	2410.4	2411.6	2418.7	2428.2	2449.4	2470.7	2492.0	2508.5	2515.6	2512.1
37.5°	2638.5	2639.7	2634.9	2624.3	2627.9	2644.4	2669.2	2703.5	2714.1	2721.2	2737.7
40°	2987.1	2983.5	2964.6	2955.1	2949.2	2956.3	2951.6	2978.8	3003.6	3004.8	3003.6
42.5°	3410.1	3399.4	3381.7	3379.3	3377.0	3374.6	3361.6	3362.8	3385.2	3391.2	3384.1
45°	3830.7	3817.7	3804.7	3816.5	3802.3	3839.0	3849.6	3878.0	3881.5	3893.3	3875.6
47.5°	4175.7	4176.9	4176.9	4193.5	4221.8	4291.5	4354.1	4408.5	4428.6	4456.9	4460.5
50°	4436.9	4443.9	4466.4	4519.6	4579.8	4696.8	4802.0	4900.0	4988.7	5021.7	5109.2
52.5°	4589.3	4608.2	4655.5	4744.1	4851.6	5002.8	5168.3	5334.9	5488.5	5618.4	5722.4
55°	4562.1	4576.3	4659.0	4797.2	4965.0	5168.3	5399.9	5640.9	5880.8	6100.5	6270.7
57.5°	4387.2	4396.7	4479.4	4635.4	4844.5	5117.5	5444.8	5802.8	6139.5	6494.0	6784.7
60°	4158.0	4172.2	4249.0	4371.9	4590.5	4881.1	5260.4	5746.1	6283.7	6841.4	7384.9
62.5°	4011.5	4007.9	4075.3	4185.2	4349.4	4612.9	4978.0	5553.5	6297.9	7240.8	8314.8
65°	3768.1	3757.4	3827.2	3952.4	4130.8	4386.1	4732.3	5285.2	6149.0	7392.0	8915.1
66°	3616.8	3595.6	3665.3	3791.7	3970.1	4241.9	4573.9	5119.8	5968.2	7244.3	8851.3
67.5°	3352.2	3341.5	3374.6	3473.9	3606.2	3861.4	4207.6	4757.1	5540.5	6800.0	8383.4
70°	2724.7	2701.1	2727.1	2772.0	2822.8	2885.4	3098.1	3534.1	4197.0	5417.6	6754.0
72.5°	1856.3	1844.5	1892.9	1961.4	2097.3	2161.1	2245.0	2315.9	2549.9	3414.8	4711.0
75°	1412.0	1419.1	1480.5	1594.0	1768.8	1957.9	2142.2	2209.6	2131.6	2064.2	2673.9
77.5°	791.7	833.0	907.5	1051.6	1237.1	1504.2	1825.6	2180.0	2357.3	2313.5	2163.5
80°	326.1	320.2	356.8	436.0	499.8	718.4	1098.9	1543.2	2041.8	2357.3	2307.6
82.5°	91.0	93.3	120.5	154.8	199.7	254.0	397.0	638.1	1039.8	1617.6	2117.4
85°	28.4	28.4	39.0	57.9	68.5	79.2	100.4	165.4	282.4	563.6	1142.6
87.5°	5.9	5.9	8.3	16.5	17.7	17.7	22.5	30.7	27.2	24.8	111.1
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: P159568

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6
2.5°	1948.4	1946.1	1947.3	1948.4	1947.3	1947.3	1946.1	1944.9	1946.1	1946.1	1949.6
5°	1947.3	1946.1	1947.3	1947.3	1947.3	1948.4	1948.4	1948.4	1952.0	1952.0	1957.9
7.5°	1949.6	1949.6	1952.0	1952.0	1952.0	1952.0	1953.2	1955.5	1961.4	1960.3	1970.9
10°	1954.3	1956.7	1962.6	1963.8	1963.8	1967.3	1969.7	1974.4	1980.3	1982.7	1992.2
12.5°	1960.3	1972.1	1982.7	1985.1	1988.6	1994.5	1998.1	2000.4	2011.1	2014.6	2026.4
15°	1967.3	1983.9	1996.9	2001.6	2006.3	2013.4	2018.2	2021.7	2031.1	2035.9	2050.1
17.5°	1968.5	1987.4	2002.8	2009.9	2015.8	2024.1	2031.1	2038.2	2048.9	2056.0	2070.1
20°	1967.3	1992.2	2015.8	2025.2	2031.1	2046.5	2057.1	2066.6	2079.6	2086.7	2100.9
22.5°	1980.3	2008.7	2040.6	2052.4	2061.9	2083.1	2097.3	2112.7	2129.2	2133.9	2144.6
25°	2011.1	2040.6	2080.8	2097.3	2113.9	2142.2	2162.3	2184.8	2201.3	2203.7	2207.2
27.5°	2063.1	2090.2	2138.7	2163.5	2190.7	2230.8	2260.4	2282.8	2306.5	2306.5	2304.1
30°	2168.2	2174.1	2224.9	2256.8	2297.0	2356.1	2399.8	2424.6	2442.3	2442.3	2422.3
32.5°	2304.1	2297.0	2343.1	2377.4	2432.9	2515.6	2574.7	2593.6	2612.5	2606.6	2572.3
35°	2500.2	2480.2	2506.1	2558.1	2620.8	2734.2	2795.6	2838.2	2850.0	2833.4	2779.1
37.5°	2747.2	2744.8	2757.8	2815.7	2885.4	3032.0	3094.6	3121.8	3112.3	3082.8	2987.1
40°	3008.3	3001.2	2993.0	3032.0	3109.9	3286.0	3397.1	3411.2	3398.2	3354.5	3234.0
42.5°	3356.9	3356.9	3317.9	3328.5	3393.5	3590.8	3722.0	3766.9	3768.1	3704.3	3543.6
45°	3836.6	3831.9	3763.4	3746.8	3796.4	3990.2	4159.2	4184.0	4184.0	4100.1	3924.1
47.5°	4413.2	4407.3	4340.0	4282.1	4291.5	4500.7	4641.3	4679.1	4646.0	4583.4	4374.2
50°	5063.1	5052.5	4983.9	4929.6	4906.0	5117.5	5236.8	5254.5	5206.1	5131.6	4904.8
52.5°	5722.4	5754.3	5714.2	5684.6	5692.9	5830.0	5952.8	5868.9	5844.1	5763.8	5535.7
55°	6408.9	6507.0	6595.6	6569.6	6600.3	6733.9	6757.5	6646.4	6601.5	6543.6	6289.6
57.5°	7100.2	7386.1	7676.8	7758.3	7833.9	8025.3	7998.2	7816.2	7850.5	7936.7	7650.8
60°	8065.5	8891.4	9628.8	9764.6	9999.8	10162.8	10199.5	10164.0	10323.5	10278.6	10025.8
62.5°	9548.4	10925.0	11950.6	12205.8	12442.1	12433.8	12309.8	12182.2	12339.3	12339.3	11678.8
65°	10607.1	12169.2	13266.9	13478.4	13468.9	13184.2	12891.1	12635.9	12613.4	12438.6	11473.2
66°	10656.7	12264.9	13340.1	13524.4	13453.6	12995.1	12644.2	12320.4	12182.2	11938.8	10949.8
67.5°	10210.1	11994.3	13101.4	13262.1	13075.4	12418.5	11935.2	11501.6	11300.7	10890.7	9959.6
70°	8375.1	10308.2	11918.7	12247.2	12035.6	11203.8	10542.1	9956.1	9572.0	8980.1	8308.9
72.5°	6113.5	7610.6	9354.6	9888.7	9855.6	9090.0	8557.1	8020.6	7516.1	6977.3	6486.9
75°	3973.7	4950.9	5923.3	6235.2	6085.2	5642.1	5260.4	4947.3	4468.8	4094.2	4003.2
77.5°	2268.6	2772.0	2621.9	2582.9	2395.1	1933.1	1285.6	901.6	814.1	1016.2	1114.2
80°	2158.8	1956.7	1602.2	1445.1	1328.1	905.1	475.0	334.4	293.0	300.1	322.6
82.5°	2434.1	2536.9	2074.9	1733.4	1508.9	1101.2	601.4	280.0	204.4	242.2	271.8
85°	1824.4	2568.8	2546.3	2157.6	1770.0	1269.0	711.3	213.9	122.9	170.1	222.1
87.5°	369.8	608.5	586.1	515.2	438.4	306.0	119.3	67.4	61.4	83.9	127.6
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: P159568

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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6
2.5°	1952.0	1952.0	1954.3	1957.9	1959.1	1959.1	1961.4	1959.1	1963.8	1965.0	1966.2
5°	1962.6	1966.2	1968.5	1974.4	1978.0	1980.3	1983.9	1981.5	1986.2	1987.4	1989.8
7.5°	1974.4	1980.3	1985.1	1987.4	1992.2	1992.2	1993.3	1991.0	1989.8	1986.2	1985.1
10°	1995.7	1999.2	2005.2	2002.8	2000.4	1992.2	1985.1	1974.4	1968.5	1957.9	1952.0
12.5°	2030.0	2032.3	2032.3	2021.7	2006.3	1987.4	1969.7	1952.0	1937.8	1926.0	1918.9
15°	2053.6	2058.3	2052.4	2037.1	2014.6	1988.6	1965.0	1941.3	1922.4	1907.1	1897.6
17.5°	2071.3	2070.1	2059.5	2038.2	2017.0	1994.5	1973.3	1948.4	1924.8	1902.4	1888.2
20°	2098.5	2086.7	2067.8	2045.3	2022.9	2004.0	1987.4	1963.8	1939.0	1908.3	1887.0
22.5°	2135.1	2113.9	2086.7	2063.1	2041.8	2024.1	2005.2	1985.1	1959.1	1924.8	1895.3
25°	2187.1	2150.5	2119.8	2096.1	2077.2	2057.1	2035.9	2009.9	1983.9	1948.4	1913.0
27.5°	2266.3	2211.9	2172.9	2151.7	2133.9	2106.8	2079.6	2048.9	2015.8	1979.2	1939.0
30°	2362.0	2297.0	2252.1	2233.2	2211.9	2181.2	2151.7	2109.1	2063.1	2019.3	1969.7
32.5°	2474.2	2408.1	2363.2	2349.0	2314.7	2279.3	2237.9	2181.2	2120.9	2056.0	1996.9
35°	2644.4	2560.5	2519.1	2486.1	2438.8	2396.3	2326.5	2252.1	2165.8	2079.6	2006.3
37.5°	2819.3	2734.2	2691.7	2645.6	2584.1	2506.1	2412.8	2306.5	2191.8	2085.5	1995.7
40°	3053.2	2961.1	2906.7	2835.8	2736.6	2614.9	2476.6	2331.3	2191.8	2059.5	1950.8
42.5°	3326.2	3241.1	3157.2	3040.2	2880.7	2703.5	2509.7	2323.0	2154.0	2001.6	1887.0
45°	3704.3	3558.9	3425.4	3237.5	3004.8	2755.5	2513.2	2284.0	2089.0	1920.1	1792.5
47.5°	4129.6	3941.8	3705.5	3411.2	3093.4	2775.5	2479.0	2210.7	1986.2	1803.1	1663.7
50°	4620.0	4331.7	3969.0	3549.5	3138.3	2748.4	2397.4	2087.9	1844.5	1634.1	1485.3
52.5°	5181.3	4741.7	4207.6	3647.6	3131.2	2665.7	2262.7	1926.0	1654.2	1430.9	1284.4
55°	5804.0	5188.3	4435.7	3710.2	3067.4	2505.0	2051.2	1697.9	1417.9	1198.1	1069.3
57.5°	6901.7	5971.7	4870.5	3794.1	2933.9	2261.6	1783.0	1409.6	1156.8	970.1	847.2
60°	8941.1	7341.2	5694.1	3991.4	2733.0	1956.7	1445.1	1106.0	894.5	758.6	667.6
62.5°	10203.0	8305.4	6095.8	3963.0	2406.9	1539.6	1072.9	820.0	653.4	563.6	506.9
65°	9904.1	7927.3	5605.5	3404.2	1872.8	1091.8	710.1	536.4	449.0	402.9	375.7
66°	9497.6	7504.3	5190.7	3048.5	1631.8	912.2	586.1	450.2	386.4	352.1	337.9
67.5°	8645.7	6731.5	4477.0	2441.2	1222.9	679.4	432.5	353.3	314.3	296.6	287.1
70°	7236.0	5423.5	3166.7	1441.5	662.9	368.7	276.5	245.8	236.3	230.4	226.9
72.5°	5594.8	3926.4	1850.4	709.0	334.4	238.7	210.3	197.3	193.8	193.8	195.0
75°	3524.7	2256.8	828.3	341.5	226.9	192.6	179.6	173.7	174.9	176.1	174.9
77.5°	1171.0	778.7	345.0	242.2	197.3	174.9	164.2	161.9	164.2	165.4	165.4
80°	336.8	294.2	249.3	213.9	180.8	163.1	153.6	152.4	158.3	159.5	157.2
82.5°	258.8	242.2	225.7	206.8	173.7	153.6	150.1	151.2	154.8	152.4	141.8
85°	237.5	235.1	169.0	167.8	151.2	146.5	143.0	144.2	140.6	127.6	115.8
87.5°	133.5	124.1	95.7	96.9	112.3	115.8	95.7	101.6	94.5	82.7	75.6
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: P159568

CATALOG NUMBER: VST-E07-LED-E-U-T3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1949.6	1949.6	1949.6	1949.6	1949.6
2.5°	1968.5	1967.3	1967.3	1970.9	1966.2
5°	1991.0	1989.8	1989.8	1993.3	1989.8
7.5°	1980.3	1976.8	1974.4	1973.3	1973.3
10°	1944.9	1941.3	1934.3	1931.9	1929.5
12.5°	1908.3	1904.7	1896.4	1896.4	1894.1
15°	1885.8	1881.1	1875.2	1871.6	1869.3
17.5°	1874.0	1866.9	1859.8	1856.3	1853.9
20°	1869.3	1859.8	1851.5	1845.6	1845.6
22.5°	1870.5	1858.6	1849.2	1842.1	1839.7
25°	1882.3	1864.5	1852.7	1845.6	1843.3
27.5°	1898.8	1877.5	1862.2	1852.7	1849.2
30°	1921.3	1891.7	1870.5	1858.6	1853.9
32.5°	1936.6	1895.3	1868.1	1851.5	1845.6
35°	1935.4	1882.3	1849.2	1827.9	1820.8
37.5°	1914.2	1851.5	1807.8	1781.8	1770.0
40°	1866.9	1794.8	1748.7	1723.9	1709.8
42.5°	1798.4	1720.4	1679.0	1651.9	1636.5
45°	1690.9	1614.0	1563.2	1542.0	1521.9
47.5°	1542.0	1464.0	1420.3	1389.5	1376.5
50°	1367.1	1289.1	1243.0	1218.2	1206.4
52.5°	1175.7	1101.2	1068.2	1044.5	1028.0
55°	977.2	908.6	894.5	868.5	853.1
57.5°	790.5	750.3	737.3	711.3	698.3
60°	618.0	605.0	590.8	574.3	567.2
62.5°	478.5	466.7	463.2	452.5	451.4
65°	365.1	366.3	363.9	361.6	359.2
66°	332.0	330.8	332.0	329.7	328.5
67.5°	282.4	287.1	290.7	289.5	289.5
70°	229.2	232.8	237.5	236.3	236.3
72.5°	196.1	202.1	204.4	203.2	203.2
75°	177.2	183.1	183.1	180.8	179.6
77.5°	165.4	167.8	165.4	163.1	160.7
80°	153.6	151.2	147.7	144.2	141.8
82.5°	133.5	127.6	124.1	118.2	118.2
85°	107.5	102.8	94.5	88.6	82.7
87.5°	69.7	67.4	61.4	46.1	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)