

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: P158916

Luminaire Tested: **VST-F07-LED-E-U-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158916
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F07-LED-E-U-SLL-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (49) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15934.3 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 180.5
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



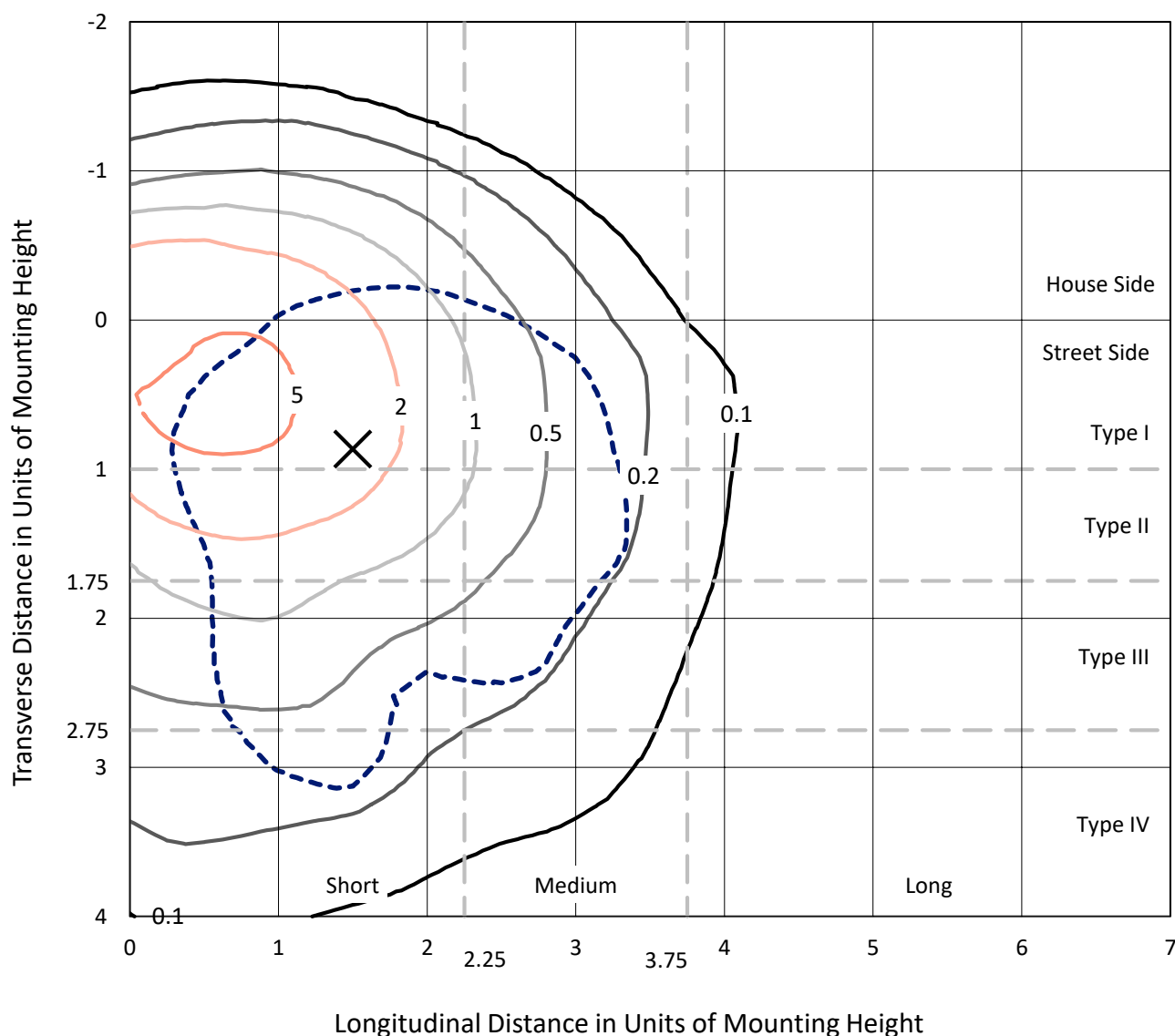
REPORT NUMBER: P158916

CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

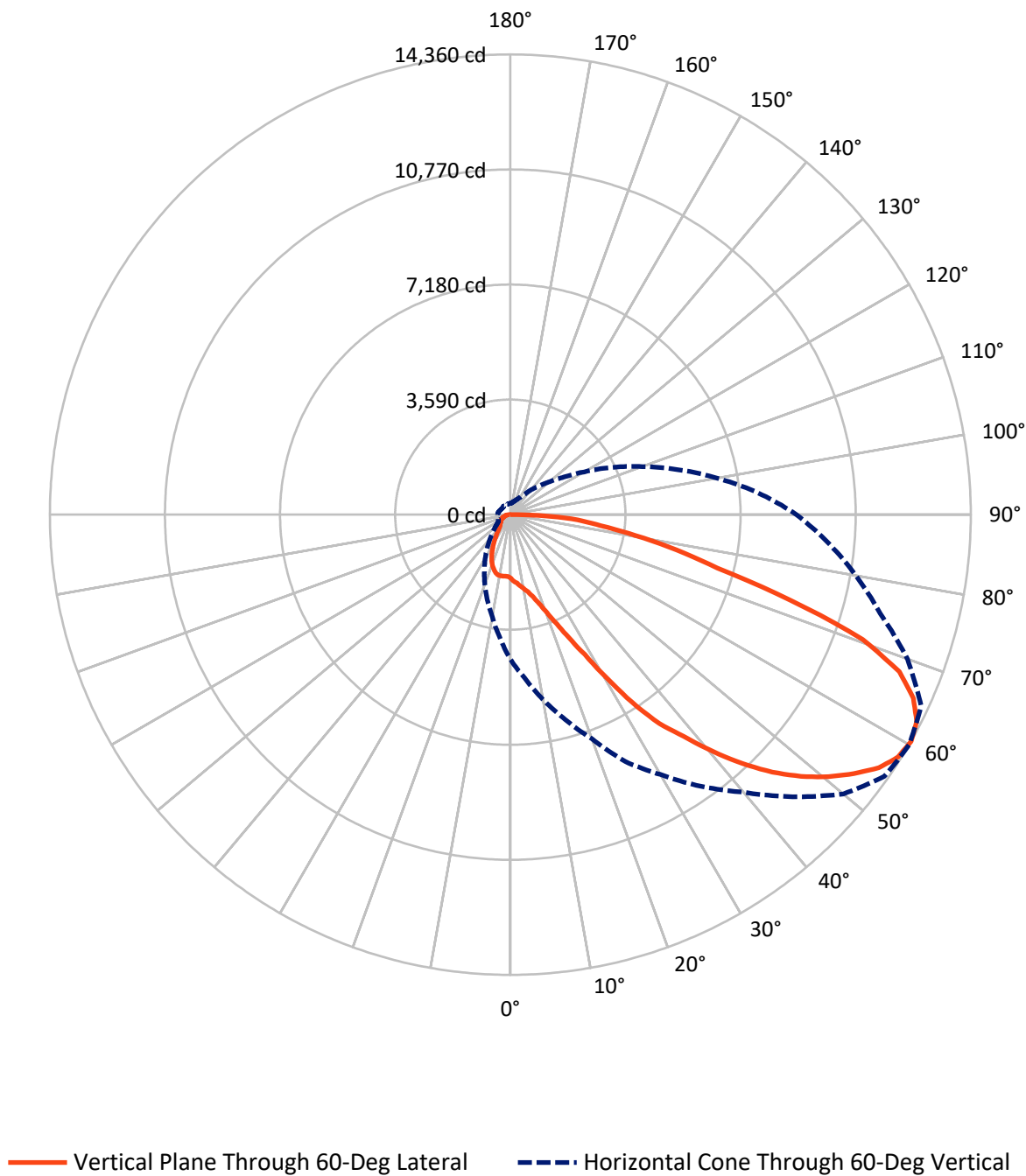


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158916

CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P158916

CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3587.9	0.0	3587.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	12346.4	0.0	12346.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	15934.3	0.0	15934.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	1.2
10°-20°	631.2	4.0
20°-30°	1197.8	7.5
30°-40°	1886.4	11.8
40°-50°	2632.9	16.5
50°-60°	3256.3	20.4
60°-70°	3375.3	21.2
70°-80°	2123.9	13.3
80°-90°	634.9	4.0
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°	15934.3	100.0
0°-180°	15934.3	100.0

Coefficient of Utilization



REPORT NUMBER: P158916

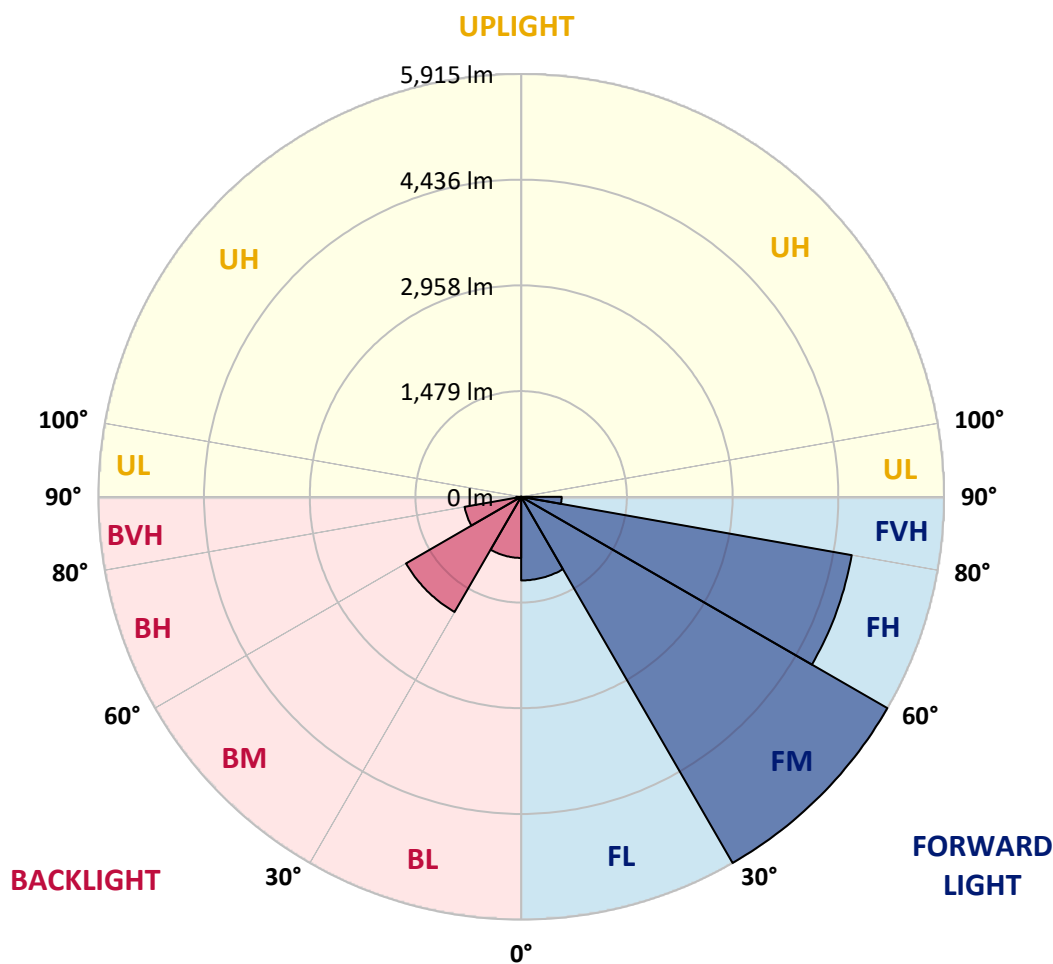
CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1169.8	7.3			
FM	(30°-60°)	5915.1	37.1			
FH	(60°-80°)	4695.7	29.5			G2/5000
FVH	(80°-90°)	565.8	3.6			G4/750
BL	(0°-30°)	854.8	5.4	B2/1000		
BM	(30°-60°)	1860.5	11.7	B2/2500		
BH	(60°-80°)	803.5	5.0	B2/1000		G2/1000
BVH	(80°-90°)	69.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P158916

CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	2099.1	2096.7	2096.7	2096.7	2095.5	2093.1	2096.7	2095.5	2089.6	2086.0	2089.6
5°	2126.3	2127.5	2131.1	2132.3	2132.3	2135.8	2145.3	2146.5	2145.3	2147.7	2153.6
7.5°	2152.4	2158.3	2161.9	2167.8	2175.0	2180.9	2197.5	2214.1	2224.8	2233.1	2235.4
10°	2195.1	2204.6	2215.3	2230.7	2247.3	2276.9	2291.2	2307.8	2318.4	2335.0	2338.6
12.5°	2304.2	2316.1	2323.2	2346.9	2368.3	2396.7	2416.9	2421.6	2446.5	2460.8	2477.4
15°	2488.0	2505.8	2530.7	2545.0	2568.7	2593.6	2611.4	2635.1	2638.6	2657.6	2670.7
17.5°	2713.4	2738.3	2789.3	2823.6	2854.5	2879.4	2915.0	2942.2	2948.2	2969.5	2942.2
20°	3028.8	3089.3	3097.6	3166.4	3193.6	3243.5	3314.6	3327.7	3362.0	3327.7	3307.5
22.5°	3455.7	3550.6	3576.7	3643.1	3676.3	3752.2	3773.6	3843.5	3867.2	3841.1	3786.6
25°	3946.7	4093.7	4169.6	4271.6	4288.2	4443.6	4460.2	4542.0	4498.1	4435.3	4436.5
27.5°	4308.4	4558.6	4754.3	4928.6	5050.8	5226.3	5362.7	5400.6	5359.1	5277.3	5248.8
30°	4514.7	4798.2	5079.2	5320.0	5604.6	5872.6	6151.3	6290.0	6313.8	6356.5	6184.5
32.5°	4647.6	5011.6	5346.1	5643.7	5935.5	6280.6	6654.1	7011.1	7311.1	7537.6	7430.9
35°	4759.0	5208.5	5636.6	5997.1	6342.2	6718.2	7095.3	7516.3	8013.2	8303.7	8364.2
37.5°	4804.1	5353.2	5877.3	6339.9	6824.9	7248.3	7623.0	7997.7	8519.5	9037.8	9197.9
40°	4795.8	5424.3	6020.8	6601.9	7196.1	7725.0	8163.8	8607.3	9218.0	9824.0	10084.9
42.5°	4740.1	5435.0	6112.2	6776.3	7453.4	8156.7	8717.6	9228.7	9814.6	10591.3	10960.1
45°	4670.1	5398.2	6131.1	6865.2	7644.3	8457.9	9167.1	9799.1	10485.8	11253.1	11699.0
47.5°	4575.2	5340.1	6107.4	6896.0	7729.7	8651.2	9484.9	10245.0	11000.5	11884.0	12449.6
50°	4472.1	5257.1	6058.8	6873.5	7751.1	8756.7	9666.3	10532.0	11414.3	12367.8	13082.9
52.5°	4399.7	5168.2	6014.9	6827.3	7729.7	8788.7	9732.7	10686.2	11668.1	12653.6	13507.5
55°	4310.8	5049.6	5897.5	6719.3	7651.5	8771.0	9725.6	10739.6	11738.1	12763.9	13738.7
57.5°	4316.7	4995.0	5797.9	6590.1	7491.4	8606.1	9591.6	10686.2	11627.8	12692.8	13747.0
60°	4504.1	5112.4	5850.1	6616.2	7443.9	8501.8	9363.9	10342.3	11304.1	12447.3	13554.9
62.5°	4890.7	5448.1	6118.1	6877.1	7710.8	8710.5	9260.7	9770.7	10624.5	11995.4	13227.6
65°	5352.0	5854.8	6435.9	7158.1	8092.6	9049.6	9202.6	9305.8	9737.5	11116.7	12613.3
67.5°	5813.3	6262.8	6719.3	7318.2	8309.6	9146.9	8965.4	8720.0	8952.4	10095.6	11406.0
70°	5979.3	6575.8	6875.9	7287.4	8144.8	8920.4	8582.4	7964.5	8045.2	9084.0	10042.3
72.5°	5730.3	6580.6	6680.2	6833.2	7410.7	8140.1	7783.1	6988.5	6971.9	7765.3	8539.7
75°	4806.5	6003.1	6001.9	5944.9	6075.4	6490.5	6305.5	5826.4	6029.1	6654.1	6909.1
77.5°	3426.1	4684.3	4743.6	4360.6	4351.1	4538.5	4649.9	5207.3	5942.6	6293.6	6213.0
80°	2152.4	3160.4	3415.4	2942.2	2841.4	3107.1	3796.1	4607.2	5512.1	5827.5	5556.0
82.5°	1296.2	2036.2	2579.3	2311.3	2287.6	2771.5	3532.8	3848.3	4119.8	4455.4	4001.2
85°	879.9	1356.7	1764.6	1818.0	2025.5	2526.0	2856.8	2716.9	2724.0	2636.3	2401.5
87.5°	168.4	370.0	604.8	737.6	818.3	1099.3	1195.4	1082.7	1143.2	836.1	914.3
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: P158916

CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	2083.6	2083.6	2083.6	2077.7	2078.9	2070.6	2067.0	2067.0	2063.5	2063.5	2062.3
5°	2148.9	2141.7	2145.3	2144.1	2144.1	2132.3	2126.3	2126.3	2110.9	2112.1	2107.4
7.5°	2246.1	2244.9	2248.5	2241.4	2231.9	2222.4	2212.9	2208.2	2186.8	2173.8	2165.5
10°	2356.4	2355.2	2358.8	2357.6	2341.0	2323.2	2297.1	2278.1	2252.0	2231.9	2211.7
12.5°	2477.4	2476.2	2473.8	2463.1	2445.3	2416.9	2383.7	2351.7	2312.5	2286.4	2256.8
15°	2665.9	2662.4	2648.1	2632.7	2613.7	2569.9	2511.7	2465.5	2413.3	2368.3	2319.6
17.5°	2944.6	2915.0	2912.6	2878.2	2827.2	2769.1	2714.5	2637.5	2562.7	2495.1	2428.7
20°	3328.8	3260.1	3241.1	3201.9	3134.3	3073.9	2955.3	2852.1	2750.1	2657.6	2573.4
22.5°	3747.5	3697.7	3651.4	3587.4	3494.9	3407.1	3256.5	3127.2	2996.8	2878.2	2784.5
25°	4332.1	4245.5	4162.5	4060.5	3932.5	3828.1	3656.1	3525.7	3354.9	3247.0	3111.8
27.5°	5087.5	4939.3	4799.4	4711.6	4486.3	4334.5	4115.1	3946.7	3740.3	3594.5	3434.4
30°	6070.7	5898.7	5691.2	5387.6	5119.6	4818.3	4546.8	4330.9	4111.5	3907.6	3722.6
32.5°	7289.8	6986.2	6657.7	6176.2	5736.2	5306.9	4945.2	4679.6	4455.4	4201.7	3940.8
35°	8320.3	8007.2	7541.2	6929.2	6386.1	5895.1	5462.3	5099.4	4806.5	4485.1	4140.0
37.5°	9133.8	8776.9	8339.3	7689.4	7115.4	6556.9	6102.7	5640.2	5255.9	4813.6	4377.2
40°	10066.0	9707.8	9226.3	8552.8	7873.2	7267.2	6734.8	6256.8	5784.8	5245.3	4684.3
42.5°	10878.3	10619.8	10132.4	9436.3	8683.2	8008.4	7426.1	6879.4	6262.8	5659.1	4995.0
45°	11725.1	11461.8	10999.3	10271.1	9470.6	8718.8	8022.7	7434.4	6706.3	5987.6	5227.5
47.5°	12473.4	12203.0	11735.7	11012.3	10162.0	9369.8	8603.7	7892.2	7046.7	6221.3	5379.3
50°	13187.3	12856.4	12428.3	11707.3	10798.9	9952.1	9120.8	8207.7	7311.1	6384.9	5482.4
52.5°	13843.1	13422.1	13016.5	12274.1	11292.2	10407.5	9480.1	8475.7	7473.6	6514.2	5552.4
55°	14215.5	13943.9	13458.8	12729.5	11643.2	10720.6	9707.8	8664.2	7634.9	6605.5	5582.1
57.5°	14330.5	14264.1	13857.3	12992.8	11849.6	10892.5	9862.0	8813.7	7742.8	6631.6	5540.6
60°	14239.2	14360.1	14137.2	13177.8	11943.3	10943.5	9937.9	8920.4	7761.8	6548.6	5414.8
62.5°	13946.3	14221.4	14192.9	13239.5	11894.6	10879.5	9929.6	8865.8	7583.9	6290.0	5132.6
65°	13464.8	13811.1	13933.2	13010.6	11620.7	10645.9	9718.5	8523.1	7089.3	5784.8	4659.4
67.5°	12558.7	13082.9	13201.5	12261.1	10904.4	9999.6	9110.1	7811.6	6173.8	5003.3	3920.6
70°	10743.1	11659.8	11819.9	10833.3	9641.4	8846.9	8092.6	6683.8	5140.9	4013.1	3008.6
72.5°	8576.5	9152.8	9480.1	8800.6	7913.5	7337.2	6765.6	5127.9	3879.1	2961.2	2070.6
75°	6705.1	6670.7	6963.6	6511.8	5990.0	5720.8	5291.5	3577.9	2598.3	1961.5	1310.4
77.5°	5732.7	5291.5	4958.3	4640.4	4330.9	4245.5	3834.0	2220.0	1605.7	1175.2	783.9
80°	4765.0	3959.7	3351.4	2904.3	2794.0	2962.4	2509.4	1309.2	951.1	674.8	492.2
82.5°	3404.7	2848.5	2318.4	2035.0	1846.5	2114.5	1480.0	727.0	515.9	404.4	326.1
85°	2207.0	2109.7	2087.2	1994.7	1765.8	1667.4	1124.2	626.2	386.6	251.4	202.8
87.5°	849.1	1088.7	1255.9	1346.0	1455.1	1296.2	585.8	215.8	212.3	130.4	98.4
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: P158916

CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	2054.0	2049.2	2048.1	2044.5	2042.1	2042.1	2036.2	1928.3	1927.1	1927.1	1925.9
5°	2097.9	2091.9	2086.0	2084.8	2080.1	2080.1	2074.1	1966.2	1966.2	1966.2	1963.9
7.5°	2157.2	2145.3	2138.2	2134.6	2127.5	2131.1	2135.8	2026.7	2027.9	2026.7	2029.1
10°	2199.9	2192.7	2184.4	2182.1	2177.3	2180.9	2188.0	2080.1	2083.6	2084.8	2087.2
12.5°	2241.4	2229.5	2218.8	2215.3	2212.9	2222.4	2230.7	2126.3	2129.9	2133.4	2133.4
15°	2292.4	2272.2	2258.0	2249.7	2244.9	2254.4	2266.3	2163.1	2164.3	2167.8	2166.7
17.5°	2378.9	2349.3	2316.1	2310.1	2294.7	2298.3	2300.7	2185.6	2180.9	2172.6	2158.3
20°	2512.9	2467.9	2422.8	2403.8	2373.0	2360.0	2333.9	2186.8	2157.2	2132.3	2110.9
22.5°	2705.1	2638.6	2590.0	2558.0	2495.1	2451.3	2380.1	2180.9	2125.1	2082.5	2049.2
25°	3015.8	2936.3	2861.6	2780.9	2682.5	2594.8	2490.4	2233.1	2146.5	2073.0	2008.9
27.5°	3318.2	3192.5	3077.4	2956.5	2817.7	2686.1	2539.0	2249.7	2151.2	2056.4	1952.0
30°	3544.7	3362.0	3187.7	3011.0	2829.6	2658.8	2492.8	2192.7	2075.3	1968.6	1858.3
32.5°	3682.2	3445.1	3218.5	2999.2	2785.7	2593.6	2407.4	2094.3	1965.0	1839.3	1721.9
35°	3812.7	3518.6	3237.5	2979.0	2734.7	2521.2	2320.8	1979.3	1825.1	1691.1	1542.9
37.5°	3974.0	3595.7	3249.4	2942.2	2660.0	2415.7	2195.1	1834.6	1680.4	1515.6	1375.7
40°	4167.3	3675.1	3237.5	2868.7	2543.8	2276.9	2043.3	1682.8	1510.8	1350.7	1213.2
42.5°	4351.1	3745.1	3206.7	2770.3	2416.9	2132.3	1904.6	1547.6	1375.7	1212.0	1075.6
45°	4487.5	3804.4	3191.3	2701.5	2319.6	2033.8	1782.4	1438.5	1257.1	1092.2	953.5
47.5°	4582.3	3840.0	3184.2	2663.5	2252.0	1931.8	1670.9	1329.4	1138.5	972.4	837.2
50°	4632.1	3838.8	3166.4	2622.0	2152.4	1809.7	1555.9	1219.1	1029.4	866.9	743.6
52.5°	4645.2	3817.4	3128.4	2546.1	2031.5	1687.5	1432.6	1104.1	933.3	778.0	653.4
55°	4615.5	3765.3	3049.0	2419.2	1902.2	1558.3	1319.9	1013.9	839.6	692.6	595.3
57.5°	4531.3	3672.8	2899.5	2244.9	1765.8	1438.5	1190.6	904.8	737.6	614.3	533.7
60°	4374.8	3477.1	2665.9	2038.6	1592.7	1255.9	1012.8	762.5	629.7	537.2	472.0
62.5°	4085.4	3169.9	2337.4	1754.0	1343.6	1018.7	808.8	608.4	508.8	448.3	408.0
65°	3619.4	2707.4	1956.7	1381.6	1021.1	741.2	601.3	457.8	385.4	348.7	336.8
67.5°	2954.1	2090.8	1423.1	959.4	691.4	519.4	418.6	334.4	300.0	285.8	281.1
70°	2147.7	1424.3	921.4	606.0	456.6	362.9	316.6	269.2	250.2	246.7	246.7
72.5°	1348.4	865.7	564.5	415.1	346.3	294.1	270.4	237.2	230.1	227.7	224.1
75°	791.0	525.4	399.7	340.4	296.5	263.3	243.1	215.8	211.1	209.9	206.3
77.5°	504.0	378.3	322.6	290.5	268.0	238.4	220.6	192.1	190.9	189.7	188.6
80°	361.7	314.3	282.2	257.3	234.8	207.5	196.9	174.3	172.0	170.8	173.1
82.5°	273.9	259.7	246.7	227.7	196.9	176.7	168.4	153.0	154.2	148.2	147.1
85°	188.6	186.2	185.0	176.7	154.2	136.4	130.4	122.1	128.1	122.1	115.0
87.5°	92.5	91.3	84.2	99.6	92.5	73.5	66.4	73.5	81.8	79.5	73.5
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: P158916

CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	1921.2	1916.4	1920.0	1917.6	1917.6	1916.4	1918.8	1915.2	1912.9	1915.2	1916.4
5°	1959.1	1953.2	1954.4	1946.1	1949.6	1941.3	1943.7	1937.8	1931.8	1929.5	1929.5
7.5°	2023.2	2017.2	2010.1	2008.9	1995.9	1991.1	1982.8	1978.1	1974.5	1966.2	1961.5
10°	2081.3	2071.8	2063.5	2062.3	2049.2	2037.4	2026.7	2017.2	2011.3	1999.4	1993.5
12.5°	2128.7	2119.2	2106.2	2099.1	2086.0	2071.8	2064.7	2050.4	2042.1	2029.1	2018.4
15°	2156.0	2139.4	2120.4	2107.4	2088.4	2073.0	2062.3	2051.6	2043.3	2026.7	2011.3
17.5°	2142.9	2115.7	2089.6	2065.8	2039.8	2025.5	2010.1	1997.1	1994.7	1975.7	1952.0
20°	2088.4	2056.4	2022.0	1990.0	1955.6	1935.4	1916.4	1896.3	1890.3	1867.8	1837.0
22.5°	2022.0	1985.2	1946.1	1906.9	1863.1	1834.6	1806.1	1781.2	1761.1	1727.9	1684.0
25°	1954.4	1899.8	1842.9	1793.1	1742.1	1706.5	1676.9	1649.6	1625.9	1572.5	1527.4
27.5°	1865.4	1780.0	1721.9	1665.0	1603.3	1557.1	1523.9	1485.9	1459.9	1398.2	1350.7
30°	1751.6	1666.2	1583.2	1526.3	1464.6	1414.8	1372.1	1317.5	1279.6	1234.5	1190.6
32.5°	1608.1	1522.7	1438.5	1374.5	1323.5	1261.8	1208.4	1156.3	1112.4	1068.5	1034.1
35°	1433.8	1350.7	1271.3	1207.3	1150.3	1101.7	1050.7	1005.6	955.8	908.4	888.2
37.5°	1249.9	1161.0	1073.2	1017.5	972.4	938.1	890.6	853.9	808.8	780.3	756.6
40°	1089.8	995.0	912.0	864.5	828.9	789.8	750.7	722.2	690.2	661.7	643.9
42.5°	954.7	865.7	794.6	754.2	711.5	668.9	639.2	615.5	595.3	574.0	552.6
45°	830.1	744.7	685.5	635.6	600.1	565.7	545.5	534.8	523.0	509.9	495.7
47.5°	725.8	652.2	594.1	547.9	511.1	487.4	477.9	474.4	469.6	458.9	451.8
50°	646.3	585.8	526.5	485.0	454.2	442.3	431.7	428.1	422.2	418.6	413.9
52.5°	579.9	515.9	466.1	428.1	409.1	404.4	399.7	394.9	393.7	391.3	389.0
55°	525.4	469.6	423.4	394.9	385.4	381.9	380.7	375.9	374.7	374.7	371.2
57.5°	476.7	429.3	387.8	370.0	364.1	360.5	358.1	355.8	355.8	358.1	357.0
60°	426.9	386.6	361.7	352.2	348.7	342.7	336.8	334.4	335.6	341.5	341.5
62.5°	378.3	348.7	333.2	329.7	326.1	321.4	314.3	311.9	314.3	321.4	324.9
65°	324.9	311.9	307.1	304.8	302.4	298.8	294.1	291.7	292.9	296.5	301.2
67.5°	276.3	275.1	275.1	276.3	275.1	273.9	271.6	268.0	266.8	266.8	269.2
70°	246.7	246.7	250.2	250.2	249.0	249.0	245.5	241.9	239.6	237.2	238.4
72.5°	224.1	224.1	225.3	226.5	225.3	225.3	220.6	218.2	212.3	211.1	208.7
75°	205.2	202.8	202.8	201.6	200.4	201.6	196.9	190.9	188.6	187.4	185.0
77.5°	186.2	181.4	179.1	176.7	177.9	176.7	173.1	169.6	166.0	164.8	163.7
80°	164.8	157.7	154.2	148.2	151.8	153.0	150.6	147.1	145.9	144.7	143.5
82.5°	136.4	129.3	124.5	121.0	118.6	121.0	124.5	132.8	130.4	129.3	126.9
85°	106.7	94.9	88.9	90.1	84.2	85.4	96.1	100.8	100.8	103.2	100.8
87.5°	60.5	58.1	43.9	40.3	42.7	51.0	56.9	62.9	62.9	59.3	66.4
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: P158916

CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	1916.4	1918.8	1920.0	1924.7	1927.1	1928.3	1929.5	1931.8	1933.0	1931.8	1937.8
5°	1925.9	1925.9	1923.5	1927.1	1928.3	1928.3	1925.9	1928.3	1928.3	1928.3	1934.2
7.5°	1950.8	1943.7	1940.1	1935.4	1931.8	1927.1	1921.2	1921.2	1920.0	1921.2	1924.7
10°	1976.9	1966.2	1953.2	1941.3	1930.7	1922.4	1911.7	1908.1	1906.9	1905.8	1915.2
12.5°	1997.1	1978.1	1957.9	1937.8	1916.4	1902.2	1884.4	1873.7	1872.5	1872.5	1884.4
15°	1982.8	1952.0	1912.9	1877.3	1858.3	1838.2	1818.0	1804.9	1803.8	1806.1	1813.3
17.5°	1911.7	1861.9	1827.5	1793.1	1768.2	1751.6	1738.5	1736.2	1740.9	1736.2	1745.7
20°	1790.7	1737.4	1713.6	1686.4	1676.9	1665.0	1646.0	1629.4	1629.4	1608.1	1614.0
22.5°	1634.2	1604.5	1573.7	1552.4	1545.2	1525.1	1504.9	1482.4	1480.0	1453.9	1450.4
25°	1470.5	1440.9	1416.0	1411.2	1389.9	1362.6	1343.6	1317.5	1311.6	1285.5	1282.0
27.5°	1303.3	1279.6	1254.7	1240.5	1228.6	1199.0	1182.3	1151.5	1139.7	1111.2	1107.6
30°	1144.4	1127.8	1098.1	1086.3	1063.8	1029.4	993.8	974.8	965.3	935.7	926.2
32.5°	995.0	968.9	946.4	932.1	903.7	864.5	832.5	805.2	787.4	751.9	742.4
35°	852.7	826.6	815.9	779.1	754.2	728.1	684.3	667.7	635.6	608.4	598.9
37.5°	727.0	702.1	687.8	657.0	632.1	606.0	579.9	558.6	543.1	537.2	537.2
40°	619.0	606.0	588.2	565.7	549.1	530.1	515.9	508.8	507.6	509.9	515.9
42.5°	542.0	527.7	515.9	504.0	492.2	489.8	486.2	491.0	496.9	502.8	508.8
45°	483.8	472.0	464.9	460.1	458.9	462.5	469.6	476.7	487.4	494.5	499.3
47.5°	442.3	432.9	430.5	429.3	435.2	445.9	455.4	466.1	474.4	481.5	486.2
50°	406.8	398.5	397.3	396.1	404.4	413.9	422.2	436.4	442.3	447.1	450.6
52.5°	381.9	374.7	371.2	372.4	380.7	389.0	400.8	411.5	419.8	423.4	426.9
55°	361.7	359.3	351.0	354.6	362.9	373.6	385.4	397.3	405.6	411.5	417.4
57.5°	346.3	340.4	334.4	340.4	348.7	359.3	373.6	384.2	394.9	403.2	409.1
60°	329.7	324.9	320.2	326.1	334.4	345.1	355.8	370.0	383.0	391.3	397.3
62.5°	315.5	311.9	307.1	308.3	311.9	319.0	324.9	338.0	349.8	360.5	367.6
65°	295.3	294.1	287.0	288.2	290.5	297.7	302.4	314.3	326.1	335.6	341.5
67.5°	265.6	263.3	263.3	266.8	268.0	271.6	275.1	287.0	296.5	303.6	310.7
70°	236.0	234.8	234.8	237.2	236.0	239.6	244.3	255.0	266.8	273.9	281.1
72.5°	207.5	207.5	206.3	208.7	208.7	209.9	215.8	225.3	236.0	241.9	246.7
75°	182.6	181.4	181.4	181.4	182.6	182.6	188.6	196.9	207.5	211.1	218.2
77.5°	160.1	160.1	160.1	160.1	161.3	160.1	163.7	169.6	173.1	179.1	179.1
80°	141.1	139.9	141.1	142.3	142.3	141.1	141.1	142.3	143.5	143.5	143.5
82.5°	124.5	121.0	123.3	129.3	129.3	129.3	128.1	119.8	113.8	113.8	116.2
85°	99.6	99.6	100.8	109.1	110.3	105.5	110.3	98.4	86.6	83.0	85.4
87.5°	61.7	48.6	59.3	67.6	67.6	64.0	71.2	66.4	55.7	45.1	42.7
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: P158916
CATALOG NUMBER: VST-F07-LED-E-U-SLL-7050

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	0°
2.5°	1942.5	1943.7	1950.8	1954.4	1954.4	1959.1	1961.5	1968.6	1967.4	1967.4	1969.8	2.5°
5°	1940.1	1943.7	1950.8	1955.6	1957.9	1963.9	1968.6	1976.9	1975.7	1978.1	1979.3	5°
7.5°	1931.8	1941.3	1948.4	1957.9	1966.2	1971.0	1976.9	1984.0	1981.6	1982.8	1981.6	7.5°
10°	1924.7	1934.2	1948.4	1961.5	1973.3	1980.5	1984.0	1992.3	1991.1	1993.5	1993.5	10°
12.5°	1896.3	1912.9	1930.7	1950.8	1968.6	1987.6	1999.4	2017.2	2025.5	2036.2	2048.1	12.5°
15°	1823.9	1842.9	1871.4	1893.9	1928.3	1954.4	1988.8	2023.2	2054.0	2083.6	2118.0	15°
17.5°	1752.8	1761.1	1783.6	1814.4	1845.3	1884.4	1925.9	1987.6	2043.3	2103.8	2170.2	17.5°
20°	1621.1	1635.4	1650.8	1687.5	1724.3	1780.0	1831.0	1911.7	1993.5	2088.4	2190.4	20°
22.5°	1458.7	1472.9	1489.5	1531.0	1576.1	1633.0	1694.7	1784.8	1893.9	2017.2	2153.6	22.5°
25°	1283.2	1291.5	1304.5	1346.0	1373.3	1448.0	1522.7	1616.4	1735.0	1893.9	2052.8	25°
27.5°	1089.8	1105.3	1115.9	1134.9	1197.8	1261.8	1340.1	1440.9	1584.4	1746.8	1939.0	27.5°
30°	904.8	917.9	912.0	952.3	993.8	1061.4	1145.6	1257.1	1394.6	1587.9	1809.7	30°
32.5°	723.4	732.9	729.3	757.8	799.3	866.9	946.4	1067.3	1213.2	1419.5	1660.3	32.5°
35°	596.5	598.9	611.9	625.0	660.5	715.1	782.7	888.2	1037.7	1227.4	1482.4	35°
37.5°	537.2	542.0	550.3	568.0	594.1	633.3	689.0	770.8	898.9	1066.1	1293.8	37.5°
40°	519.4	523.0	527.7	539.6	564.5	598.9	648.7	717.5	811.2	952.3	1137.3	40°
42.5°	511.1	511.1	511.1	518.2	537.2	574.0	630.9	698.5	780.3	887.1	1036.5	42.5°
45°	499.3	499.3	498.1	501.6	514.7	551.4	613.1	689.0	776.8	878.8	1008.0	45°
47.5°	486.2	485.0	481.5	481.5	489.8	526.5	590.6	672.4	768.5	885.9	1024.6	47.5°
50°	450.6	450.6	450.6	454.2	461.3	494.5	563.3	649.9	760.2	890.6	1050.7	50°
52.5°	430.5	431.7	435.2	435.2	442.3	476.7	549.1	645.1	764.9	908.4	1083.9	52.5°
55°	421.0	424.6	428.1	428.1	434.0	469.6	544.3	648.7	782.7	945.2	1140.8	55°
57.5°	412.7	416.3	418.6	418.6	423.4	454.2	531.3	642.8	793.4	980.7	1210.8	57.5°
60°	397.3	399.7	400.8	400.8	402.0	428.1	501.6	614.3	769.7	978.4	1248.8	60°
62.5°	368.8	373.6	374.7	375.9	375.9	400.8	463.7	568.0	718.7	942.8	1238.1	62.5°
65°	347.5	349.8	353.4	355.8	360.5	377.1	426.9	512.3	652.2	871.6	1178.8	65°
67.5°	314.3	317.8	321.4	326.1	330.9	341.5	380.7	449.5	562.1	750.7	1046.0	67.5°
70°	284.6	285.8	289.4	295.3	296.5	302.4	330.9	378.3	460.1	602.4	842.0	70°
72.5°	247.9	250.2	255.0	262.1	262.1	266.8	283.4	308.3	360.5	460.1	621.4	72.5°
75°	215.8	218.2	221.8	221.8	215.8	217.0	228.9	246.7	285.8	346.3	453.0	75°
77.5°	179.1	183.8	187.4	180.3	177.9	181.4	187.4	200.4	228.9	275.1	340.4	77.5°
80°	148.2	150.6	151.8	153.0	150.6	154.2	158.9	167.2	186.2	221.8	269.2	80°
82.5°	118.6	121.0	124.5	129.3	129.3	142.3	143.5	143.5	154.2	176.7	211.1	82.5°
85°	87.8	92.5	97.2	103.2	104.4	111.5	107.9	106.7	110.3	131.6	145.9	85°
87.5°	45.1	48.6	51.0	55.7	49.8	52.2	52.2	48.6	42.7	53.4	59.3	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°

NUMBER: P158916

NUMBER: VST-F07-LED-E-U-SLL-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
1972.2	1969.8	1972.2	1972.2	1975.7	1973.3	2099.1
1981.6	1979.3	1981.6	1984.0	1987.6	1987.6	2126.3
1982.8	1982.8	1980.5	1986.4	1991.1	1995.9	2152.4
1997.1	1997.1	1999.4	2000.6	2011.3	2023.2	2195.1
2055.2	2061.1	2071.8	2075.3	2094.3	2107.4	2304.2
2144.1	2177.3	2198.7	2205.8	2222.4	2247.3	2488.0
2234.2	2290.0	2348.1	2383.7	2405.0	2434.7	2713.4
2301.8	2406.2	2505.8	2594.8	2645.8	2703.9	3028.8
2307.8	2473.8	2642.2	2807.0	2943.4	3051.3	3455.7
2250.8	2469.1	2701.5	2954.1	3188.9	3383.4	3946.7
2178.5	2446.5	2743.0	3065.6	3373.9	3660.9	4308.4
2087.2	2408.6	2750.1	3113.0	3474.7	3819.8	4514.7
1948.4	2295.9	2664.7	3065.6	3485.4	3905.2	4647.6
1770.6	2125.1	2503.4	2960.0	3435.6	3939.6	4759.0
1589.1	1939.0	2345.7	2818.9	3356.1	3933.6	4804.1
1397.0	1744.5	2160.7	2668.3	3248.2	3879.1	4795.8
1266.5	1583.2	1991.1	2515.3	3128.4	3806.8	4740.1
1190.6	1468.2	1857.1	2375.4	3019.3	3720.2	4670.1
1189.5	1433.8	1786.0	2275.8	2909.0	3624.1	4575.2
1231.0	1455.1	1777.7	2233.1	2848.5	3554.2	4472.1
1279.6	1514.4	1821.6	2248.5	2847.4	3523.3	4399.7
1356.7	1615.2	1917.6	2314.9	2878.2	3518.6	4310.8
1455.1	1751.6	2090.8	2478.5	2998.0	3612.3	4316.7
1555.9	1911.7	2317.3	2758.4	3234.0	3830.5	4504.1
1592.7	2035.0	2547.3	3086.9	3587.4	4157.8	4890.7
1560.7	2063.5	2687.3	3341.9	3931.3	4540.8	5352.0
1442.1	1948.4	2630.3	3414.2	4129.3	4812.4	5813.3
1187.1	1662.6	2371.8	3251.8	4113.9	4868.1	5979.3
870.5	1289.1	1928.3	2763.2	3657.3	4519.5	5730.3
628.5	912.0	1392.3	2081.3	2891.2	3639.5	4806.5
450.6	632.1	903.7	1367.3	1969.8	2534.3	3426.1
323.8	429.3	563.3	820.6	1200.1	1555.9	2152.4
238.4	294.1	370.0	509.9	706.8	906.0	1296.2
162.5	173.1	223.0	301.2	463.7	666.5	879.9
61.7	70.0	81.8	123.3	207.5	238.4	168.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)