

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: P158941

Luminaire Tested: **VST-E10-LED-E-U-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158941
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-E10-LED-E-U-SLL-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (210) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27574.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.7
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



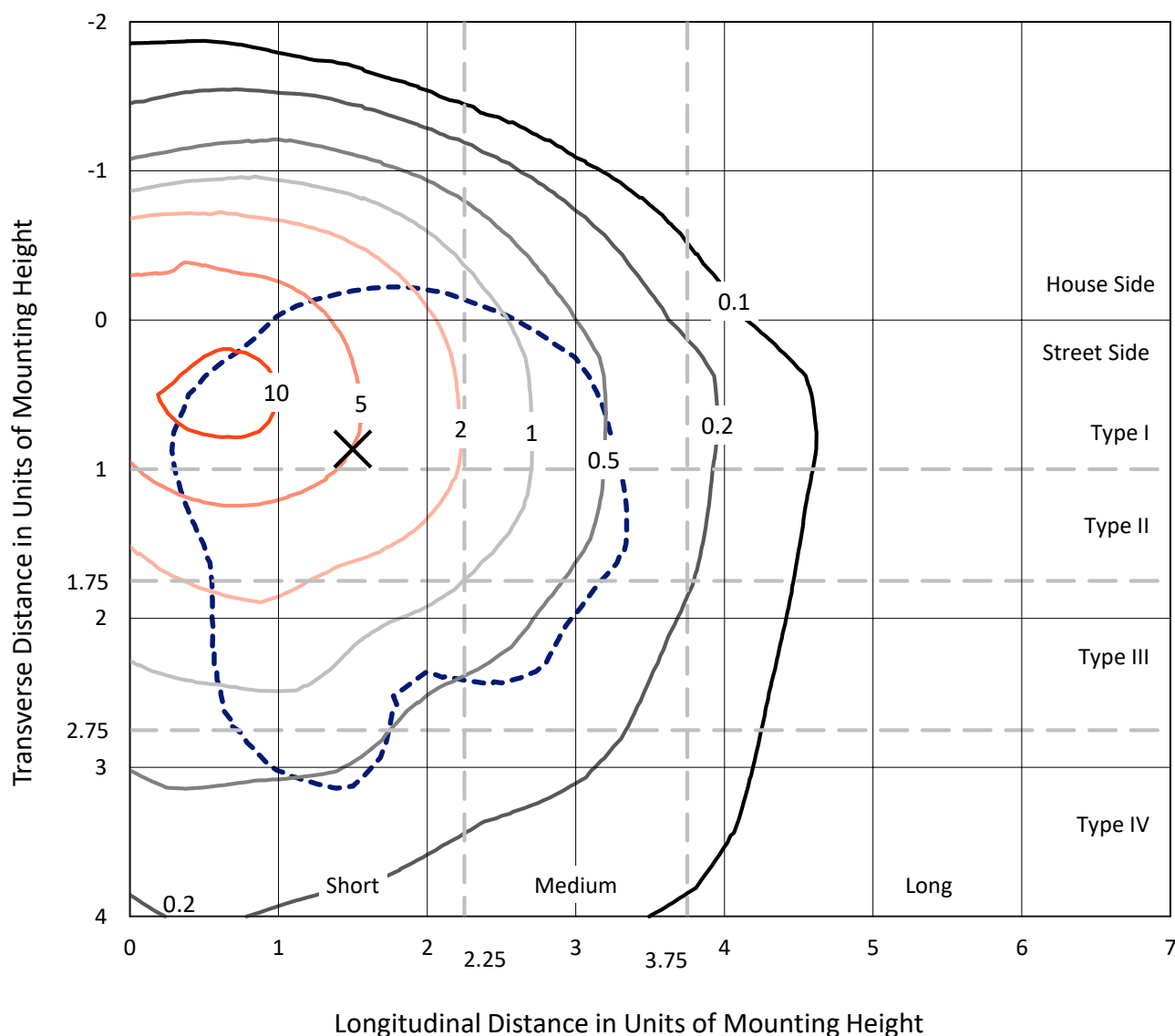
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

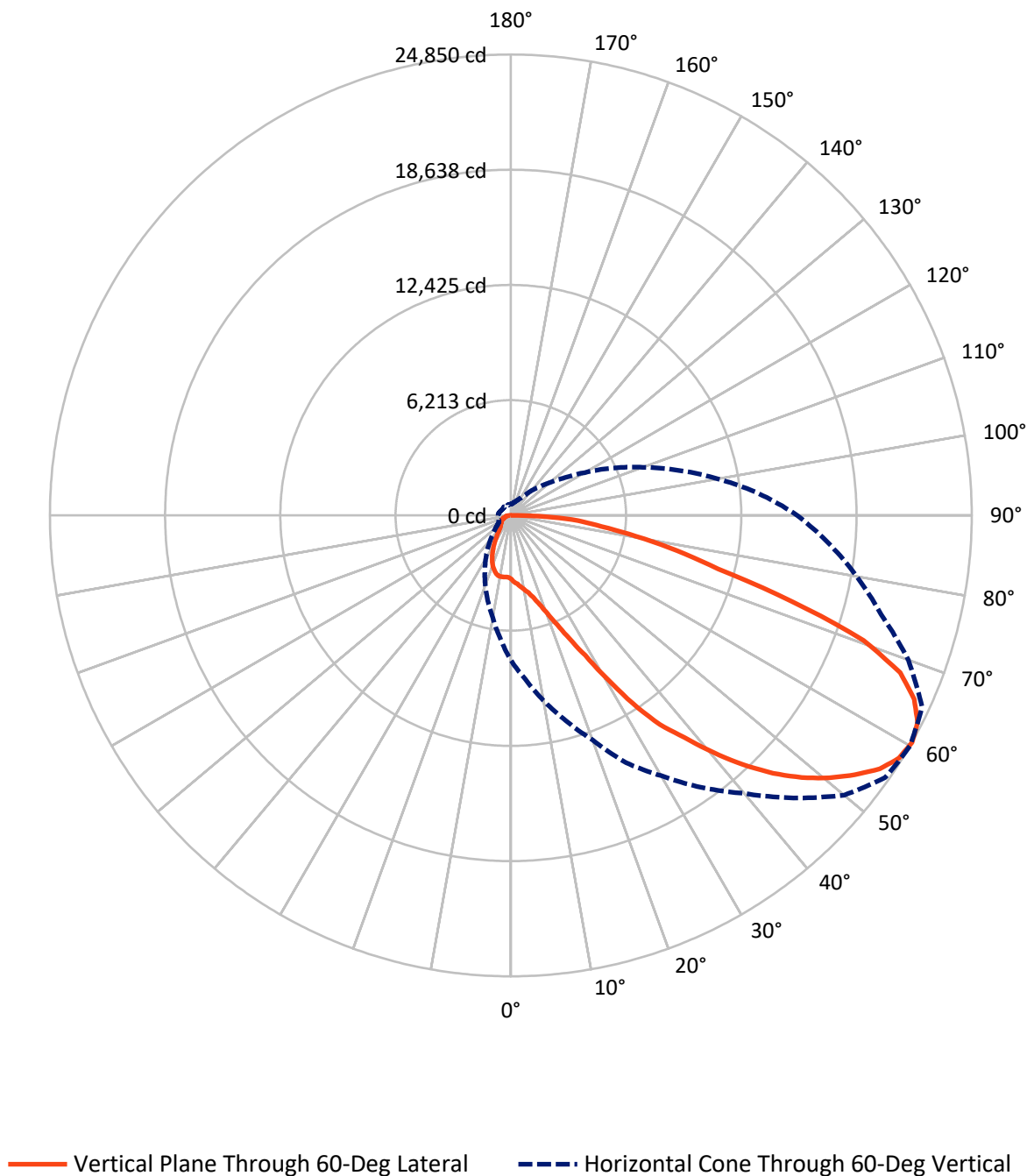


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6208.9	0.0	6208.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	21365.5	0.0	21365.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	27574.3	0.0	27574.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	1.2
10°-20°	1092.4	4.0
20°-30°	2072.9	7.5
30°-40°	3264.4	11.8
40°-50°	4556.3	16.5
50°-60°	5635.1	20.4
60°-70°	5841.0	21.2
70°-80°	3675.4	13.3
80°-90°	1098.7	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°	27574.3	100.0
0°-180°	27574.3	100.0

Coefficient of Utilization



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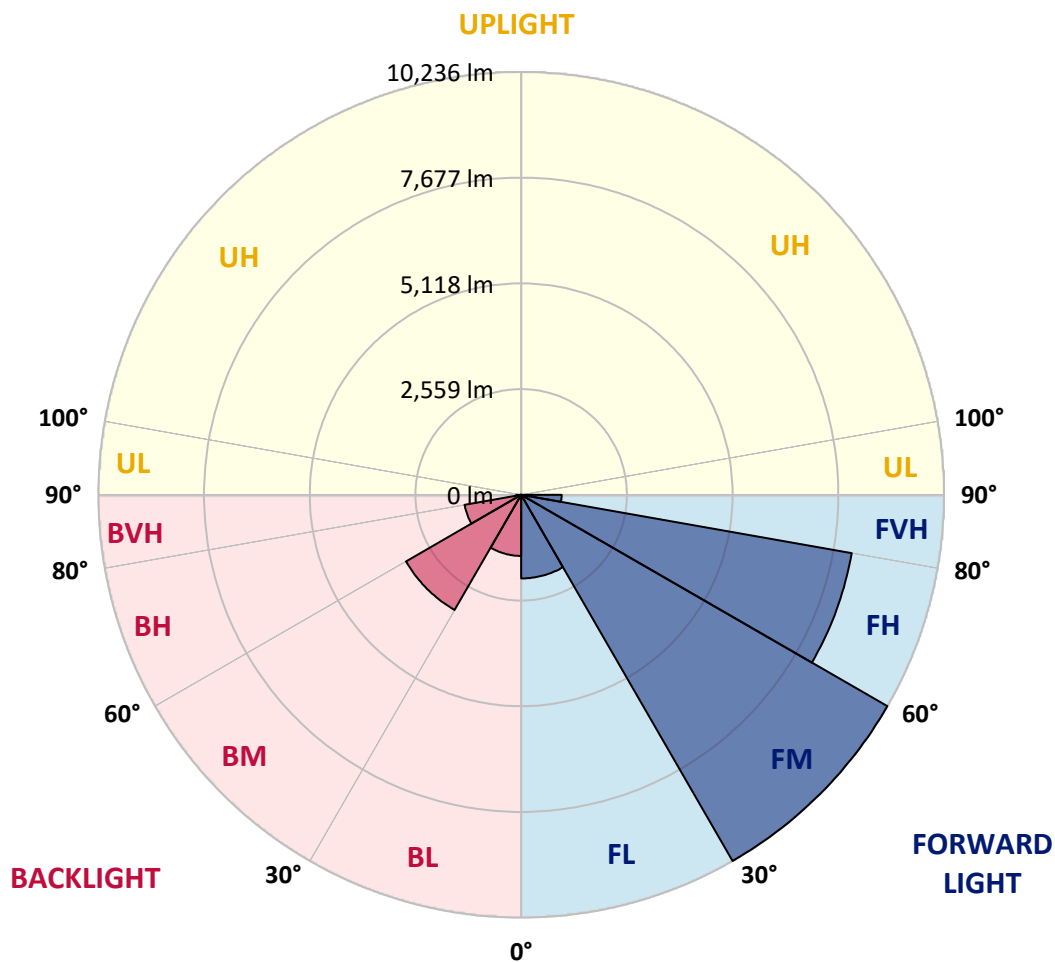
CATALOG NUMBER: VST-E10-LED-E-U-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2024.4	7.3			
FM	(30°-60°)	10236.0	37.1			
FH	(60°-80°)	8125.9	29.5			G4/12000
FVH	(80°-90°)	979.1	3.6			G5
BL	(0°-30°)	1479.2	5.4	B3/2500		
BM	(30°-60°)	3219.7	11.7	B3/5000		
BH	(60°-80°)	1390.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	119.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2
2.5°	3632.4	3628.3	3628.3	3628.3	3626.3	3622.2	3628.3	3626.3	3616.0	3609.8	3616.0
5°	3679.6	3681.7	3687.8	3689.9	3689.9	3696.0	3712.4	3714.5	3712.4	3716.6	3726.8
7.5°	3724.8	3735.0	3741.2	3751.4	3763.8	3774.0	3802.7	3831.5	3849.9	3864.3	3868.4
10°	3798.6	3815.1	3833.5	3860.2	3888.9	3940.2	3964.9	3993.6	4012.1	4040.8	4047.0
12.5°	3987.4	4008.0	4020.3	4061.3	4098.3	4147.5	4182.4	4190.6	4233.7	4258.3	4287.1
15°	4305.5	4336.3	4379.4	4404.0	4445.1	4488.2	4519.0	4560.0	4566.2	4599.0	4621.6
17.5°	4695.5	4738.6	4826.8	4886.3	4939.7	4982.8	5044.3	5091.5	5101.8	5138.7	5091.5
20°	5241.3	5346.0	5360.4	5479.4	5526.6	5612.8	5735.9	5758.5	5818.0	5758.5	5723.6
22.5°	5980.1	6144.3	6189.5	6304.4	6361.9	6493.2	6530.1	6651.2	6692.3	6647.1	6552.7
25°	6829.8	7084.2	7215.6	7392.1	7420.8	7689.6	7718.4	7860.0	7784.0	7675.3	7677.3
27.5°	7455.7	7888.7	8227.3	8529.0	8740.4	9044.1	9280.1	9345.8	9273.9	9132.3	9083.1
30°	7812.8	8303.2	8789.6	9206.2	9698.7	10162.5	10644.8	10884.9	10926.0	10999.9	10702.3
32.5°	8042.6	8672.6	9251.4	9766.5	10271.3	10868.5	11515.0	12132.7	12651.9	13043.9	12859.2
35°	8235.5	9013.3	9754.2	10378.0	10975.2	11625.8	12278.4	13006.9	13866.8	14369.6	14474.2
37.5°	8313.5	9263.7	10170.8	10971.1	11810.5	12543.1	13191.6	13840.1	14743.1	15639.9	15916.9
40°	8299.1	9386.8	10419.1	11424.7	12452.8	13368.1	14127.4	14894.9	15951.8	17000.5	17452.0
42.5°	8202.7	9405.3	10577.1	11726.3	12898.1	14115.1	15085.8	15970.3	16984.1	18328.3	18966.5
45°	8081.6	9341.7	10609.9	11880.2	13228.6	14636.4	15863.6	16957.4	18145.6	19473.4	20245.1
47.5°	7917.4	9241.1	10568.9	11933.6	13376.3	14970.9	16413.6	17729.0	19036.3	20565.2	21544.1
50°	7738.9	9097.5	10484.7	11894.6	13413.3	15153.5	16727.6	18225.7	19752.5	21402.5	22640.0
52.5°	7613.7	8943.5	10408.8	11814.6	13376.3	15208.9	16842.5	18492.5	20191.7	21897.1	23374.7
55°	7459.8	8738.3	10205.6	11627.8	13240.9	15178.2	16830.2	18584.8	20312.8	22087.9	23774.9
57.5°	7470.0	8643.9	10033.3	11404.1	12963.8	14892.9	16598.3	18492.5	20121.9	21964.8	23789.2
60°	7794.3	8847.1	10123.6	11449.3	12881.7	14712.3	16204.3	17897.3	19561.7	21540.0	23456.8
62.5°	8463.3	9427.9	10587.4	11900.8	13343.5	15073.5	16025.7	16908.2	18385.8	20758.1	22890.4
65°	9261.6	10131.8	11137.3	12387.1	14004.3	15660.4	15925.2	16103.7	16850.7	19237.4	21827.3
67.5°	10059.9	10837.7	11627.8	12664.2	14379.8	15828.7	15514.7	15089.9	15492.1	17470.5	19738.2
70°	10347.2	11379.5	11898.7	12610.8	14094.6	15436.7	14851.9	13782.6	13922.2	15719.9	17378.1
72.5°	9916.3	11387.7	11560.1	11824.8	12824.3	14086.4	13468.7	12093.7	12064.9	13437.9	14778.0
75°	8317.6	10388.3	10386.2	10287.7	10513.5	11231.8	10911.6	10082.5	10433.4	11515.0	11956.2
77.5°	5928.8	8106.2	8208.8	7546.0	7529.6	7853.8	8046.7	9011.3	10283.6	10891.1	10751.5
80°	3724.8	5469.1	5910.4	5091.5	4917.1	5376.8	6569.1	7972.8	9538.7	10084.6	9614.6
82.5°	2243.1	3523.6	4463.6	3999.8	3958.7	4796.0	6113.5	6659.4	7129.4	7710.2	6924.2
85°	1522.7	2347.7	3053.7	3146.0	3505.2	4371.2	4943.8	4701.6	4713.9	4562.1	4155.7
87.5°	291.4	640.3	1046.6	1276.5	1416.0	1902.4	2068.6	1873.7	1978.3	1446.8	1582.3
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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CATALOG NUMBER: VST-E10-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2
2.5°	3605.7	3605.7	3605.7	3595.5	3597.5	3583.2	3577.0	3577.0	3570.8	3570.8	3568.8
5°	3718.6	3706.3	3712.4	3710.4	3710.4	3689.9	3679.6	3679.6	3652.9	3655.0	3646.8
7.5°	3886.9	3884.8	3891.0	3878.7	3862.3	3845.8	3829.4	3821.2	3784.3	3761.7	3747.3
10°	4077.7	4075.7	4081.8	4079.8	4051.1	4020.3	3975.1	3942.3	3897.1	3862.3	3827.4
12.5°	4287.1	4285.0	4280.9	4262.4	4231.7	4182.4	4124.9	4069.5	4001.8	3956.7	3905.4
15°	4613.4	4607.2	4582.6	4555.9	4523.1	4447.1	4346.6	4266.5	4176.2	4098.3	4014.1
17.5°	5095.6	5044.3	5040.2	4980.7	4892.5	4791.9	4697.5	4564.1	4434.8	4317.9	4202.9
20°	5760.6	5641.5	5608.7	5541.0	5424.0	5319.3	5114.1	4935.6	4759.1	4599.0	4453.3
22.5°	6485.0	6398.8	6318.8	6207.9	6047.9	5896.0	5635.4	5411.7	5185.9	4980.7	4818.6
25°	7496.7	7346.9	7203.3	7026.8	6805.1	6624.5	6327.0	6101.2	5805.7	5619.0	5385.0
27.5°	8804.0	8547.5	8305.3	8153.4	7763.5	7500.8	7121.2	6829.8	6472.7	6220.3	5943.2
30°	10505.3	10207.7	9848.6	9323.2	8859.4	8338.1	7868.2	7494.7	7115.0	6762.0	6441.9
32.5°	12614.9	12089.6	11521.1	10687.9	9926.5	9183.6	8557.7	8098.0	7710.2	7271.0	6819.5
35°	14398.3	13856.5	13050.0	11991.1	11051.2	10201.5	9452.5	8824.5	8317.6	7761.5	7164.3
37.5°	15806.1	15188.4	14431.1	13306.5	12313.3	11346.7	10560.7	9760.3	9095.4	8329.9	7574.7
40°	17419.2	16799.4	15966.2	14800.5	13624.6	12575.9	11654.5	10827.5	10010.7	9076.9	8106.2
42.5°	18824.9	18377.5	17534.1	16329.4	15026.3	13858.6	12850.9	11904.9	10837.7	9793.2	8643.9
45°	20290.2	19834.6	19034.3	17774.2	16389.0	15087.9	13883.2	12865.3	11605.3	10361.6	9046.1
47.5°	21585.2	21117.2	20308.7	19056.8	17585.4	16214.5	14888.8	13657.5	12194.2	10765.9	9308.8
50°	22820.6	22248.0	21507.2	20259.4	18687.4	17222.2	15783.6	14203.4	12651.9	11049.1	9487.4
52.5°	23955.5	23226.9	22525.1	21240.4	19541.2	18010.2	16405.4	14667.2	12933.0	11272.8	9608.5
55°	24599.9	24129.9	23290.5	22028.4	20148.6	18552.0	16799.4	14993.5	13212.1	11430.8	9659.8
57.5°	24798.9	24684.0	23980.1	22484.0	20505.7	18849.6	17066.2	15252.0	13398.9	11476.0	9587.9
60°	24640.9	24850.2	24464.4	22804.2	20667.8	18937.8	17197.5	15436.7	13431.7	11332.3	9370.4
62.5°	24134.0	24610.1	24560.9	22910.9	20583.7	18827.0	17183.2	15342.3	13123.9	10884.9	8882.0
65°	23300.8	23900.0	24111.4	22514.8	20109.6	18422.7	16817.9	14749.2	12268.1	10010.7	8063.1
67.5°	21732.9	22640.0	22845.2	21217.8	18870.1	17304.2	15765.1	13517.9	10683.8	8658.3	6784.6
70°	18591.0	20177.3	20454.4	18746.9	16684.5	15309.5	14004.3	11566.3	8896.3	6944.7	5206.5
72.5°	14841.6	15839.0	16405.4	15229.5	13694.4	12697.0	11707.9	8873.8	6712.8	5124.4	3583.2
75°	11603.2	11543.7	12050.6	11268.7	10365.7	9899.9	9157.0	6191.5	4496.4	3394.4	2267.7
77.5°	9920.4	9157.0	8580.3	8030.3	7494.7	7346.9	6634.8	3841.7	2778.7	2033.7	1356.5
80°	8245.8	6852.3	5799.5	5025.9	4835.0	5126.4	4342.5	2265.6	1645.9	1167.7	851.7
82.5°	5891.9	4929.4	4012.1	3521.6	3195.3	3659.1	2561.2	1258.0	892.7	699.8	564.4
85°	3819.2	3650.9	3611.9	3451.8	3055.7	2885.4	1945.5	1083.6	669.0	435.1	350.9
87.5°	1469.4	1883.9	2173.3	2329.3	2518.1	2243.1	1013.8	373.5	367.3	225.7	170.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2
2.5°	3554.4	3546.2	3544.2	3538.0	3533.9	3533.9	3523.6	3336.9	3334.8	3334.8	3332.8
5°	3630.4	3620.1	3609.8	3607.8	3599.6	3599.6	3589.3	3402.6	3402.6	3402.6	3398.5
7.5°	3733.0	3712.4	3700.1	3694.0	3681.7	3687.8	3696.0	3507.2	3509.3	3507.2	3511.3
10°	3806.9	3794.5	3780.2	3776.1	3767.9	3774.0	3786.3	3599.6	3605.7	3607.8	3611.9
12.5°	3878.7	3858.2	3839.7	3833.5	3829.4	3845.8	3860.2	3679.6	3685.8	3691.9	3691.9
15°	3966.9	3932.0	3907.4	3893.0	3884.8	3901.3	3921.8	3743.2	3745.3	3751.4	3749.4
17.5°	4116.7	4065.4	4008.0	3997.7	3971.0	3977.2	3981.3	3782.2	3774.0	3759.7	3735.0
20°	4348.6	4270.7	4192.7	4159.8	4106.5	4083.9	4038.8	3784.3	3733.0	3689.9	3652.9
22.5°	4681.1	4566.2	4482.0	4426.6	4317.9	4241.9	4118.8	3774.0	3677.6	3603.7	3546.2
25°	5218.8	5081.3	4952.0	4812.4	4642.1	4490.2	4309.6	3864.3	3714.5	3587.3	3476.4
27.5°	5742.1	5524.6	5325.5	5116.2	4876.1	4648.3	4393.8	3893.0	3722.7	3558.5	3377.9
30°	6134.1	5818.0	5516.3	5210.6	4896.6	4601.1	4313.7	3794.5	3591.4	3406.7	3215.8
32.5°	6372.1	5961.7	5569.7	5190.0	4820.6	4488.2	4166.0	3624.2	3400.5	3183.0	2979.8
35°	6597.9	6088.9	5602.5	5155.2	4732.4	4363.0	4016.2	3425.1	3158.4	2926.5	2669.9
37.5°	6877.0	6222.3	5623.1	5091.5	4603.1	4180.4	3798.6	3174.8	2908.0	2622.7	2380.6
40°	7211.5	6359.8	5602.5	4964.3	4402.0	3940.2	3536.0	2912.1	2614.5	2337.5	2099.4
42.5°	7529.6	6480.9	5549.2	4794.0	4182.4	3689.9	3295.9	2678.1	2380.6	2097.4	1861.4
45°	7765.6	6583.5	5522.5	4674.9	4014.1	3519.5	3084.5	2489.3	2175.3	1890.1	1650.0
47.5°	7929.7	6645.1	5510.2	4609.3	3897.1	3343.1	2891.6	2300.5	1970.1	1682.8	1448.9
50°	8015.9	6643.0	5479.4	4537.4	3724.8	3131.7	2692.5	2109.7	1781.3	1500.2	1286.7
52.5°	8038.5	6606.1	5413.7	4406.1	3515.4	2920.3	2479.1	1910.6	1615.1	1346.3	1130.8
55°	7987.2	6515.8	5276.2	4186.5	3291.7	2696.6	2284.1	1754.6	1453.0	1198.5	1030.2
57.5°	7841.5	6355.7	5017.7	3884.8	3055.7	2489.3	2060.4	1565.8	1276.5	1063.0	923.5
60°	7570.6	6017.1	4613.4	3527.8	2756.1	2173.3	1752.6	1319.6	1089.7	929.7	816.8
62.5°	7069.9	5485.6	4044.9	3035.2	2325.2	1762.8	1399.6	1052.8	880.4	775.7	706.0
65°	6263.3	4685.2	3386.1	2390.8	1767.0	1282.6	1040.5	792.2	667.0	603.4	582.8
67.5°	5112.1	3618.0	2462.7	1660.2	1196.4	898.9	724.4	578.7	519.2	494.6	486.4
70°	3716.6	2464.7	1594.6	1048.7	790.1	628.0	547.9	465.9	433.0	426.9	426.9
72.5°	2333.4	1498.1	976.9	718.3	599.2	508.9	467.9	410.4	398.1	394.0	387.9
75°	1368.8	909.1	691.6	589.0	513.1	455.6	420.7	373.5	365.3	363.2	357.1
77.5°	872.2	654.7	558.2	502.8	463.8	412.5	381.7	332.5	330.4	328.4	326.3
80°	625.9	543.8	488.4	445.3	406.3	359.1	340.7	301.7	297.6	295.5	299.6
82.5°	474.1	449.4	426.9	394.0	340.7	305.8	291.4	264.7	266.8	256.5	254.5
85°	326.3	322.2	320.1	305.8	266.8	236.0	225.7	211.4	221.6	211.4	199.1
87.5°	160.1	158.0	145.7	172.4	160.1	127.2	114.9	127.2	141.6	137.5	127.2
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: P158941

CATALOG NUMBER: VST-E10-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2
2.5°	3324.6	3316.4	3322.5	3318.4	3318.4	3316.4	3320.5	3314.3	3310.2	3314.3	3316.4
5°	3390.3	3380.0	3382.0	3367.7	3373.8	3359.5	3363.6	3353.3	3343.1	3338.9	3338.9
7.5°	3501.1	3490.8	3478.5	3476.4	3453.9	3445.7	3431.3	3423.1	3416.9	3402.6	3394.4
10°	3601.6	3585.2	3570.8	3568.8	3546.2	3525.7	3507.2	3490.8	3480.5	3460.0	3449.8
12.5°	3683.7	3667.3	3644.7	3632.4	3609.8	3585.2	3572.9	3548.3	3533.9	3511.3	3492.9
15°	3730.9	3702.2	3669.4	3646.8	3613.9	3587.3	3568.8	3550.3	3536.0	3507.2	3480.5
17.5°	3708.3	3661.1	3616.0	3575.0	3529.8	3505.2	3478.5	3455.9	3451.8	3419.0	3377.9
20°	3613.9	3558.5	3499.0	3443.6	3384.1	3349.2	3316.4	3281.5	3271.2	3232.2	3178.9
22.5°	3499.0	3435.4	3367.7	3300.0	3224.0	3174.8	3125.5	3082.4	3047.5	2990.1	2914.1
25°	3382.0	3287.6	3189.1	3102.9	3014.7	2953.1	2901.8	2854.6	2813.6	2721.2	2643.2
27.5°	3228.1	3080.4	2979.8	2881.3	2774.6	2694.6	2637.1	2571.4	2526.3	2419.6	2337.5
30°	3031.1	2883.4	2739.7	2641.2	2534.5	2448.3	2374.4	2280.0	2214.3	2136.4	2060.4
32.5°	2782.8	2635.0	2489.3	2378.5	2290.3	2183.6	2091.2	2000.9	1925.0	1849.0	1789.5
35°	2481.1	2337.5	2200.0	2089.2	1990.6	1906.5	1818.3	1740.3	1654.1	1572.0	1537.1
37.5°	2163.0	2009.1	1857.3	1760.8	1682.8	1623.3	1541.2	1477.6	1399.6	1350.4	1309.3
40°	1886.0	1721.8	1578.2	1496.1	1434.5	1366.8	1299.0	1249.8	1194.4	1145.1	1114.4
42.5°	1652.0	1498.1	1375.0	1305.2	1231.3	1157.4	1106.1	1065.1	1030.2	993.3	956.3
45°	1436.5	1288.8	1186.2	1100.0	1038.4	978.9	944.0	925.5	905.0	882.5	857.8
47.5°	1256.0	1128.7	1028.2	948.1	884.5	843.5	827.0	820.9	812.7	794.2	781.9
50°	1118.5	1013.8	911.2	839.4	786.0	765.5	747.0	740.8	730.6	724.4	716.2
52.5°	1003.5	892.7	806.5	740.8	708.0	699.8	691.6	683.4	681.3	677.2	673.1
55°	909.1	812.7	732.6	683.4	667.0	660.8	658.8	650.6	648.5	648.5	642.3
57.5°	825.0	742.9	671.1	640.3	630.0	623.9	619.8	615.7	615.7	619.8	617.7
60°	738.8	669.0	625.9	609.5	603.4	593.1	582.8	578.7	580.8	591.0	591.0
62.5°	654.7	603.4	576.7	570.5	564.4	556.1	543.8	539.7	543.8	556.1	562.3
65°	562.3	539.7	531.5	527.4	523.3	517.2	508.9	504.8	506.9	513.1	521.3
67.5°	478.2	476.1	476.1	478.2	476.1	474.1	470.0	463.8	461.7	461.7	465.9
70°	426.9	426.9	433.0	433.0	431.0	431.0	424.8	418.7	414.5	410.4	412.5
72.5°	387.9	387.9	389.9	392.0	389.9	389.9	381.7	377.6	367.3	365.3	361.2
75°	355.0	350.9	350.9	348.9	346.8	348.9	340.7	330.4	326.3	324.2	320.1
77.5°	322.2	314.0	309.9	305.8	307.8	305.8	299.6	293.5	287.3	285.3	283.2
80°	285.3	272.9	266.8	256.5	262.7	264.7	260.6	254.5	252.4	250.4	248.3
82.5°	236.0	223.7	215.5	209.3	205.2	209.3	215.5	229.8	225.7	223.7	219.6
85°	184.7	164.2	153.9	156.0	145.7	147.8	166.2	174.4	174.4	178.5	174.4
87.5°	104.7	100.6	75.9	69.8	73.9	88.2	98.5	108.8	108.8	102.6	114.9
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: P158941

CATALOG NUMBER: VST-E10-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2
2.5°	3316.4	3320.5	3322.5	3330.7	3334.8	3336.9	3338.9	3343.1	3345.1	3343.1	3353.3
5°	3332.8	3332.8	3328.7	3334.8	3336.9	3336.9	3332.8	3336.9	3336.9	3336.9	3347.2
7.5°	3375.9	3363.6	3357.4	3349.2	3343.1	3334.8	3324.6	3324.6	3322.5	3324.6	3330.7
10°	3421.0	3402.6	3380.0	3359.5	3341.0	3326.6	3308.2	3302.0	3300.0	3297.9	3314.3
12.5°	3455.9	3423.1	3388.2	3353.3	3316.4	3291.7	3261.0	3242.5	3240.4	3240.4	3261.0
15°	3431.3	3377.9	3310.2	3248.6	3215.8	3180.9	3146.0	3123.5	3121.4	3125.5	3137.8
17.5°	3308.2	3222.0	3162.5	3102.9	3059.8	3031.1	3008.5	3004.4	3012.6	3004.4	3020.9
20°	3098.8	3006.5	2965.4	2918.2	2901.8	2881.3	2848.5	2819.7	2819.7	2782.8	2793.1
22.5°	2827.9	2776.6	2723.3	2686.3	2674.0	2639.1	2604.3	2565.3	2561.2	2516.0	2509.9
25°	2544.7	2493.4	2450.3	2442.1	2405.2	2358.0	2325.2	2280.0	2269.7	2224.6	2218.4
27.5°	2255.4	2214.3	2171.2	2146.6	2126.1	2074.8	2046.1	1992.7	1972.2	1922.9	1916.8
30°	1980.4	1951.7	1900.3	1879.8	1840.8	1781.3	1719.8	1686.9	1670.5	1619.2	1602.8
32.5°	1721.8	1676.7	1637.7	1613.0	1563.8	1496.1	1440.7	1393.5	1362.7	1301.1	1284.7
35°	1475.5	1430.4	1411.9	1348.3	1305.2	1260.1	1184.1	1155.4	1100.0	1052.8	1036.4
37.5°	1258.0	1214.9	1190.3	1136.9	1093.8	1048.7	1003.5	966.6	939.9	929.7	929.7
40°	1071.3	1048.7	1017.9	978.9	950.2	917.3	892.7	880.4	878.3	882.5	892.7
42.5°	937.9	913.2	892.7	872.2	851.7	847.6	841.4	849.6	859.9	870.1	880.4
45°	837.3	816.8	804.5	796.3	794.2	800.4	812.7	825.0	843.5	855.8	864.0
47.5°	765.5	749.1	745.0	742.9	753.2	771.6	788.0	806.5	820.9	833.2	841.4
50°	703.9	689.5	687.5	685.4	699.8	716.2	730.6	755.2	765.5	773.7	779.8
52.5°	660.8	648.5	642.3	644.4	658.8	673.1	693.6	712.1	726.5	732.6	738.8
55°	625.9	621.8	607.5	613.6	628.0	646.4	667.0	687.5	701.9	712.1	722.4
57.5°	599.2	589.0	578.7	589.0	603.4	621.8	646.4	664.9	683.4	697.8	708.0
60°	570.5	562.3	554.1	564.4	578.7	597.2	615.7	640.3	662.9	677.2	687.5
62.5°	545.9	539.7	531.5	533.6	539.7	552.0	562.3	584.9	605.4	623.9	636.2
65°	511.0	508.9	496.6	498.7	502.8	515.1	523.3	543.8	564.4	580.8	591.0
67.5°	459.7	455.6	455.6	461.7	463.8	470.0	476.1	496.6	513.1	525.4	537.7
70°	408.4	406.3	406.3	410.4	408.4	414.5	422.8	441.2	461.7	474.1	486.4
72.5°	359.1	359.1	357.1	361.2	361.2	363.2	373.5	389.9	408.4	418.7	426.9
75°	316.0	314.0	314.0	314.0	316.0	316.0	326.3	340.7	359.1	365.3	377.6
77.5°	277.0	277.0	277.0	277.0	279.1	277.0	283.2	293.5	299.6	309.9	309.9
80°	244.2	242.2	244.2	246.3	246.3	244.2	244.2	246.3	248.3	248.3	248.3
82.5°	215.5	209.3	213.4	223.7	223.7	223.7	221.6	207.3	197.0	197.0	201.1
85°	172.4	172.4	174.4	188.8	190.9	182.6	190.9	170.3	149.8	143.7	147.8
87.5°	106.7	84.1	102.6	117.0	117.0	110.8	123.1	114.9	96.5	78.0	73.9
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: P158941
CATALOG NUMBER: VST-E10-LED-E-U-SLL-7050

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	0°
2.5°	3361.5	3363.6	3375.9	3382.0	3382.0	3390.3	3394.4	3406.7	3404.6	3404.6	3408.7	2.5°
5°	3357.4	3363.6	3375.9	3384.1	3388.2	3398.5	3406.7	3421.0	3419.0	3423.1	3425.1	5°
7.5°	3343.1	3359.5	3371.8	3388.2	3402.6	3410.8	3421.0	3433.3	3429.2	3431.3	3429.2	7.5°
10°	3330.7	3347.2	3371.8	3394.4	3414.9	3427.2	3433.3	3447.7	3445.7	3449.8	3449.8	10°
12.5°	3281.5	3310.2	3341.0	3375.9	3406.7	3439.5	3460.0	3490.8	3505.2	3523.6	3544.2	12.5°
15°	3156.3	3189.1	3238.4	3277.4	3336.9	3382.0	3441.6	3501.1	3554.4	3605.7	3665.2	15°
17.5°	3033.2	3047.5	3086.5	3139.9	3193.2	3261.0	3332.8	3439.5	3536.0	3640.6	3755.5	17.5°
20°	2805.4	2830.0	2856.7	2920.3	2983.9	3080.4	3168.6	3308.2	3449.8	3613.9	3790.4	20°
22.5°	2524.2	2548.8	2577.6	2649.4	2727.4	2825.9	2932.6	3088.6	3277.4	3490.8	3726.8	22.5°
25°	2220.5	2234.9	2257.4	2329.3	2376.5	2505.7	2635.0	2797.2	3002.4	3277.4	3552.4	25°
27.5°	1886.0	1912.7	1931.1	1964.0	2072.7	2183.6	2319.0	2493.4	2741.8	3022.9	3355.4	27.5°
30°	1565.8	1588.4	1578.2	1647.9	1719.8	1836.7	1982.4	2175.3	2413.4	2747.9	3131.7	30°
32.5°	1251.8	1268.3	1262.1	1311.4	1383.2	1500.2	1637.7	1847.0	2099.4	2456.5	2873.1	32.5°
35°	1032.3	1036.4	1058.9	1081.5	1143.1	1237.5	1354.5	1537.1	1795.7	2124.0	2565.3	35°
37.5°	929.7	937.9	952.2	983.0	1028.2	1095.9	1192.3	1333.9	1555.6	1844.9	2239.0	37.5°
40°	898.9	905.0	913.2	933.8	976.9	1036.4	1122.6	1241.6	1403.7	1647.9	1968.1	40°
42.5°	884.5	884.5	884.5	896.8	929.7	993.3	1091.8	1208.8	1350.4	1535.1	1793.6	42.5°
45°	864.0	864.0	861.9	868.1	890.7	954.3	1061.0	1192.3	1344.2	1520.7	1744.4	45°
47.5°	841.4	839.4	833.2	833.2	847.6	911.2	1022.0	1163.6	1329.8	1533.0	1773.1	47.5°
50°	779.8	779.8	779.8	786.0	798.3	855.8	974.8	1124.6	1315.5	1541.2	1818.3	50°
52.5°	745.0	747.0	753.2	753.2	765.5	825.0	950.2	1116.4	1323.7	1572.0	1875.7	52.5°
55°	728.5	734.7	740.8	740.8	751.1	812.7	942.0	1122.6	1354.5	1635.6	1974.2	55°
57.5°	714.2	720.3	724.4	724.4	732.6	786.0	919.4	1112.3	1372.9	1697.2	2095.3	57.5°
60°	687.5	691.6	693.6	693.6	695.7	740.8	868.1	1063.0	1331.9	1693.1	2161.0	60°
62.5°	638.2	646.4	648.5	650.6	650.6	693.6	802.4	983.0	1243.6	1631.5	2142.5	62.5°
65°	601.3	605.4	611.6	615.7	623.9	652.6	738.8	886.6	1128.7	1508.4	2039.9	65°
67.5°	543.8	550.0	556.1	564.4	572.6	591.0	658.8	777.8	972.7	1299.0	1810.0	67.5°
70°	492.5	494.6	500.7	511.0	513.1	523.3	572.6	654.7	796.3	1042.5	1457.1	70°
72.5°	428.9	433.0	441.2	453.5	453.5	461.7	490.5	533.6	623.9	796.3	1075.4	72.5°
75°	373.5	377.6	383.8	383.8	373.5	375.6	396.1	426.9	494.6	599.2	783.9	75°
77.5°	309.9	318.1	324.2	311.9	307.8	314.0	324.2	346.8	396.1	476.1	589.0	77.5°
80°	256.5	260.6	262.7	264.7	260.6	266.8	275.0	289.4	322.2	383.8	465.9	80°
82.5°	205.2	209.3	215.5	223.7	223.7	246.3	248.3	248.3	266.8	305.8	365.3	82.5°
85°	151.9	160.1	168.3	178.5	180.6	192.9	186.8	184.7	190.9	227.8	252.4	85°
87.5°	78.0	84.1	88.2	96.5	86.2	90.3	90.3	84.1	73.9	92.3	102.6	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: P158941

NUMBER: VST-E10-LED-E-U-SLL-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2
3412.8	3408.7	3412.8	3412.8	3419.0	3414.9	3632.4
3429.2	3425.1	3429.2	3433.3	3439.5	3439.5	3679.6
3431.3	3431.3	3427.2	3437.5	3445.7	3453.9	3724.8
3455.9	3455.9	3460.0	3462.1	3480.5	3501.1	3798.6
3556.5	3566.7	3585.2	3591.4	3624.2	3646.8	3987.4
3710.4	3767.9	3804.8	3817.1	3845.8	3888.9	4305.5
3866.4	3962.8	4063.4	4124.9	4161.9	4213.2	4695.5
3983.3	4163.9	4336.3	4490.2	4578.5	4679.0	5241.3
3993.6	4280.9	4572.3	4857.6	5093.6	5280.3	5980.1
3895.1	4272.7	4674.9	5112.1	5518.4	5855.0	6829.8
3769.9	4233.7	4746.8	5305.0	5838.5	6335.2	7455.7
3611.9	4168.0	4759.1	5387.1	6013.0	6610.2	7812.8
3371.8	3973.1	4611.3	5305.0	6031.4	6757.9	8042.6
3064.0	3677.6	4332.2	5122.3	5945.3	6817.4	8235.5
2750.0	3355.4	4059.3	4878.1	5807.8	6807.2	8313.5
2417.5	3018.8	3739.1	4617.5	5621.0	6712.8	8299.1
2191.8	2739.7	3445.7	4352.7	5413.7	6587.6	8202.7
2060.4	2540.6	3213.8	4110.6	5224.9	6437.8	8081.6
2058.4	2481.1	3090.6	3938.2	5034.1	6271.6	7917.4
2130.2	2518.1	3076.3	3864.3	4929.4	6150.5	7738.9
2214.3	2620.7	3152.2	3891.0	4927.4	6097.1	7613.7
2347.7	2795.1	3318.4	4005.9	4980.7	6088.9	7459.8
2518.1	3031.1	3618.0	4289.1	5188.0	6251.0	7470.0
2692.5	3308.2	4010.0	4773.4	5596.4	6628.6	7794.3
2756.1	3521.6	4408.1	5341.9	6207.9	7195.1	8463.3
2700.7	3570.8	4650.3	5783.1	6803.1	7857.9	9261.6
2495.5	3371.8	4551.8	5908.3	7145.8	8327.9	10059.9
2054.3	2877.2	4104.4	5627.2	7119.1	8424.3	10347.2
1506.3	2230.8	3336.9	4781.7	6329.0	7821.0	9916.3
1087.7	1578.2	2409.3	3601.6	5003.3	6298.2	8317.6
779.8	1093.8	1563.8	2366.2	3408.7	4385.6	5928.8
560.3	742.9	974.8	1420.1	2076.8	2692.5	3724.8
412.5	508.9	640.3	882.5	1223.1	1567.9	2243.1
281.2	299.6	385.8	521.3	802.4	1153.3	1522.7
106.7	121.1	141.6	213.4	359.1	412.5	291.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)