

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: P159158

Luminaire Tested: **VST-E10-LED-E-U-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159158  
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-SLR-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (210) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22680.4 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

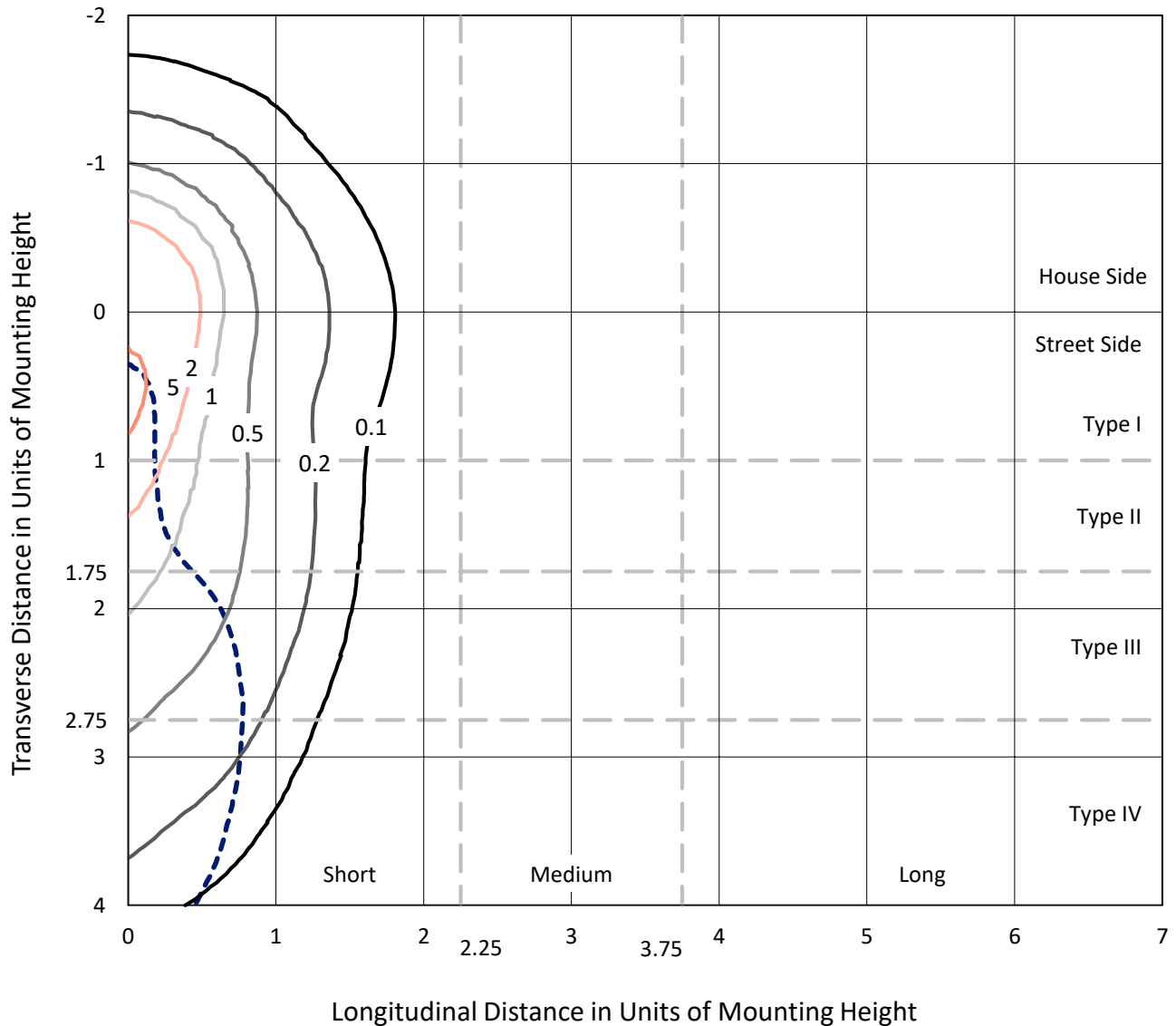
Input Watts (W): 247.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

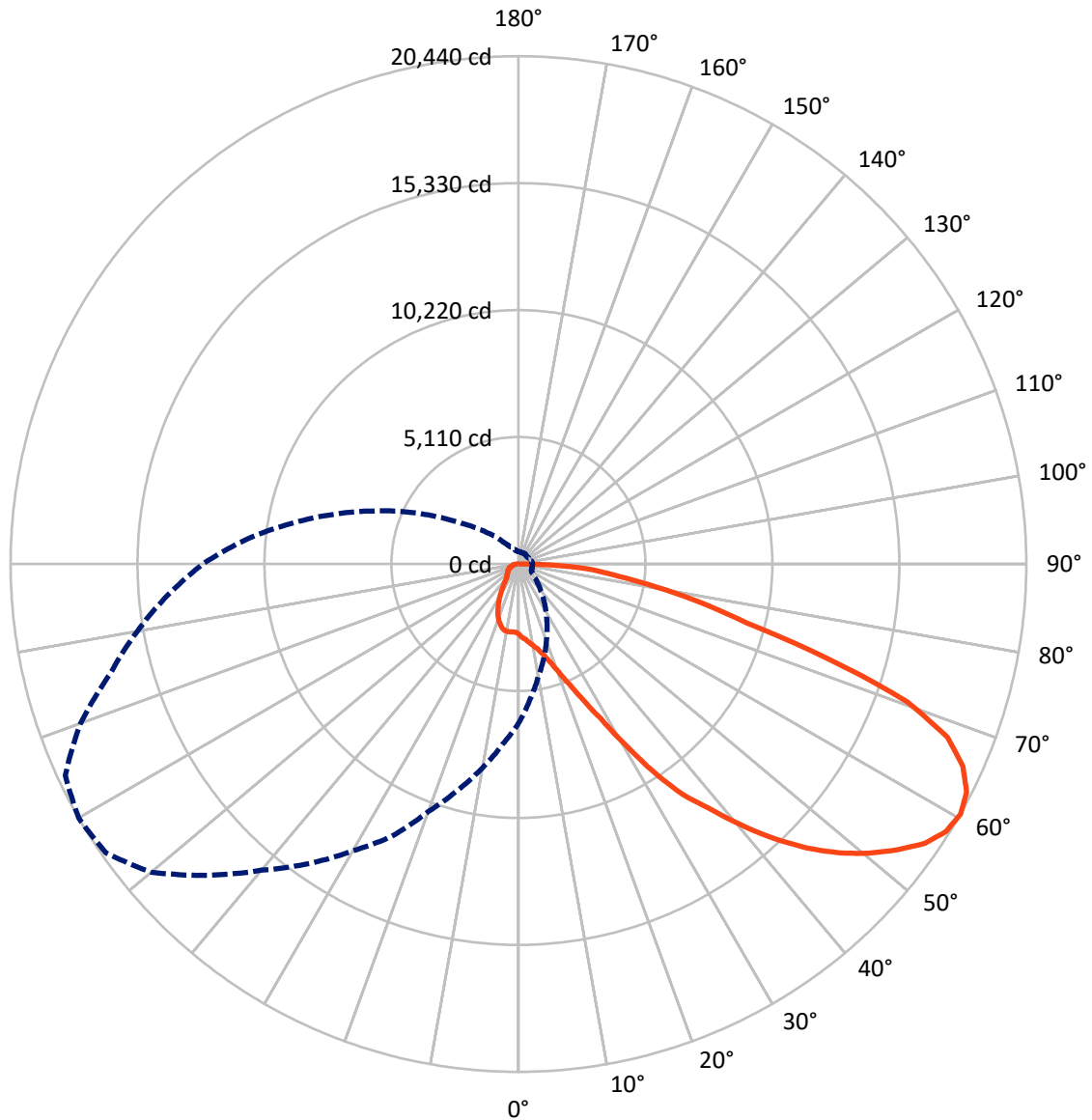
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5106.9	0.0	5106.9
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	17573.5	0.0	17573.5
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	22680.4	0.0	22680.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.3	1.2
10°-20°	898.5	4.0
20°-30°	1705.0	7.5
30°-40°	2685.0	11.8
40°-50°	3747.6	16.5
50°-60°	4634.9	20.4
60°-70°	4804.4	21.2
70°-80°	3023.1	13.3
80°-90°	903.7	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°	22680.4	100.0
0°-180°	22680.4	100.0



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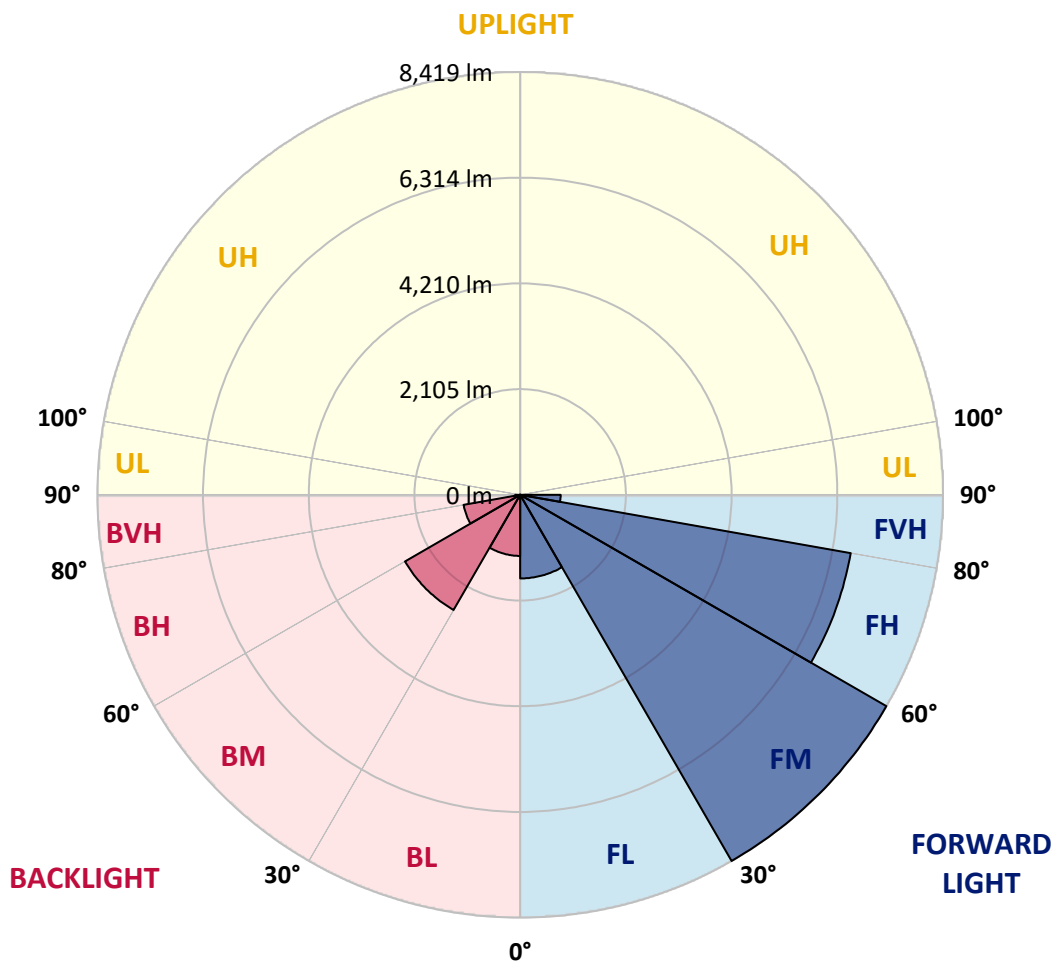
CATALOG NUMBER: VST-E10-LED-E-U-SLR-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1665.1	7.3			
FM (30°-60°)	8419.3	37.1			
FH (60°-80°)	6683.7	29.5			G3/7500
FVH (80°-90°)	805.4	3.6			G5
BL (0°-30°)	1216.6	5.4	B3/2500		
BM (30°-60°)	2648.2	11.7	B3/5000		
BH (60°-80°)	1143.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	98.3	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2987.7	2808.8	2812.2	2807.1	2807.1	2803.7	2807.1	2803.7	2800.4	2800.4	2802.0
5°	3026.6	2829.1	2829.1	2824.0	2820.6	2817.2	2820.6	2817.2	2815.6	2812.2	2813.9
7.5°	3063.7	2840.9	2834.1	2827.4	2818.9	2822.3	2822.3	2820.6	2822.3	2820.6	2824.0
10°	3124.5	2879.7	2862.8	2847.6	2845.9	2842.6	2842.6	2837.5	2837.5	2834.1	2835.8
12.5°	3279.7	2999.5	2981.0	2954.0	2948.9	2933.7	2925.3	2915.1	2898.3	2883.1	2871.3
15°	3541.4	3198.7	3163.3	3139.6	3129.5	3099.1	3051.9	3014.7	2965.8	2923.6	2879.7
17.5°	3862.1	3465.4	3423.2	3392.8	3342.2	3259.5	3180.2	3089.0	2994.5	2908.4	2829.1
20°	4311.1	3848.6	3765.9	3693.3	3566.7	3424.9	3276.4	3117.7	2972.5	2837.5	2721.0
22.5°	4918.8	4343.2	4189.6	3995.5	3760.8	3521.1	3284.8	3065.4	2871.3	2695.7	2540.4
25°	5617.6	4815.8	4539.0	4204.8	3845.2	3514.4	3203.8	2921.9	2695.7	2469.5	2300.7
27.5°	6132.4	5210.8	4802.3	4363.4	3904.3	3482.3	3100.8	2759.9	2486.4	2255.1	2050.9
30°	6426.1	5437.0	4945.8	4431.0	3914.4	3428.3	2970.8	2575.9	2260.2	1985.1	1789.3
32.5°	6615.2	5558.5	4961.0	4363.4	3792.9	3267.9	2773.4	2363.2	2020.5	1726.8	1519.2
35°	6773.9	5607.5	4890.1	4213.2	3563.3	3024.9	2520.2	2110.0	1747.1	1477.0	1264.3
37.5°	6838.0	5599.0	4777.0	4012.3	3338.8	2759.9	2261.9	1841.6	1517.5	1279.5	1097.2
40°	6826.2	5521.4	4623.4	3798.0	3075.5	2483.0	1988.4	1618.8	1355.4	1154.6	1021.2
42.5°	6746.9	5418.4	4452.9	3580.2	2834.1	2253.5	1802.8	1475.3	1262.6	1110.7	994.2
45°	6647.3	5295.2	4297.6	3381.0	2643.4	2089.7	1694.7	1434.8	1250.8	1105.6	980.7
47.5°	6512.2	5158.5	4140.6	3239.2	2542.1	2040.8	1693.0	1458.4	1260.9	1093.8	957.1
50°	6365.4	5058.9	4054.5	3178.5	2530.3	2071.2	1752.1	1495.6	1267.7	1082.0	925.0
52.5°	6262.4	5015.0	4052.8	3200.4	2592.7	2155.6	1821.3	1542.8	1293.0	1088.7	918.3
55°	6135.8	5008.2	4096.7	3294.9	2729.5	2299.0	1931.1	1623.8	1345.3	1114.1	923.3
57.5°	6144.3	5141.6	4267.2	3527.9	2975.9	2493.1	2071.2	1723.4	1396.0	1129.3	914.9
60°	6411.0	5452.2	4603.1	3926.2	3298.3	2721.0	2214.6	1777.4	1392.6	1095.5	874.4
62.5°	6961.2	5918.1	5106.1	4393.8	3625.8	2896.6	2267.0	1762.3	1341.9	1022.9	808.5
65°	7617.9	6463.3	5595.7	4756.7	3825.0	2937.1	2221.4	1677.9	1240.7	928.4	729.2
67.5°	8274.5	6849.8	5877.6	4859.7	3743.9	2773.4	2052.6	1488.8	1068.5	800.1	639.7
70°	8510.8	6929.2	5855.6	4628.4	3376.0	2366.6	1689.7	1198.5	857.5	654.9	538.5
72.5°	8156.3	6432.9	5205.7	3933.0	2744.7	1834.8	1239.0	884.5	654.9	513.1	438.9
75°	6841.4	5180.4	4115.3	2962.4	1981.7	1298.1	894.6	644.8	492.9	406.8	351.1
77.5°	4876.6	3607.2	2803.7	1946.2	1286.2	899.7	641.4	484.5	391.6	325.8	285.3
80°	3063.7	2214.6	1708.2	1168.1	801.8	611.0	460.8	383.2	315.7	265.0	238.0
82.5°	1845.0	1289.6	1006.0	725.8	526.7	418.6	339.3	300.5	251.5	219.4	204.2
85°	1252.5	948.6	660.0	428.7	317.3	246.4	231.3	207.6	187.4	157.0	151.9
87.5°	239.7	339.3	295.4	175.6	116.5	99.6	87.8	84.4	76.0	60.8	69.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2791.9	2788.5	2781.8	2781.8	2776.7	2766.6	2764.9	2758.2	2749.7	2751.4	2749.7
5°	2802.0	2795.3	2786.9	2783.5	2776.7	2766.6	2761.5	2753.1	2744.7	2744.7	2744.7
7.5°	2813.9	2805.4	2798.7	2786.9	2773.4	2763.2	2749.7	2739.6	2734.5	2732.8	2734.5
10°	2824.0	2818.9	2808.8	2791.9	2773.4	2753.1	2739.6	2726.1	2712.6	2714.3	2716.0
12.5°	2845.9	2829.1	2802.0	2776.7	2748.0	2722.7	2699.1	2682.2	2665.3	2665.3	2667.0
15°	2830.7	2781.8	2744.7	2695.7	2663.6	2623.1	2596.1	2580.9	2570.8	2567.4	2569.1
17.5°	2741.3	2682.2	2626.5	2582.6	2538.7	2506.7	2494.8	2484.7	2471.2	2478.0	2471.2
20°	2606.2	2533.7	2454.3	2402.0	2349.7	2327.7	2307.5	2297.3	2288.9	2319.3	2319.3
22.5°	2412.1	2324.4	2243.3	2179.2	2120.1	2096.5	2076.2	2064.4	2069.5	2106.6	2110.0
25°	2167.4	2061.0	1954.7	1915.9	1856.8	1838.2	1826.4	1824.7	1829.8	1866.9	1875.3
27.5°	1907.4	1796.0	1704.9	1615.4	1588.4	1573.2	1551.3	1576.6	1581.6	1622.2	1639.0
30°	1630.6	1510.7	1414.5	1355.4	1298.1	1306.5	1287.9	1318.3	1331.8	1374.0	1387.5
32.5°	1347.0	1233.9	1137.7	1078.6	1038.1	1043.2	1029.7	1056.7	1070.2	1120.8	1146.1
35°	1114.1	1017.9	940.2	889.6	871.0	852.4	849.1	852.4	865.9	904.8	950.3
37.5°	980.7	901.4	845.7	808.5	783.2	771.4	764.7	764.7	764.7	773.1	795.0
40°	923.3	852.4	803.5	768.0	751.2	744.4	739.3	734.3	725.8	722.5	724.1
42.5°	898.0	817.0	764.7	737.6	727.5	727.5	727.5	724.1	715.7	707.3	698.8
45°	872.7	784.9	732.6	714.0	709.0	710.6	710.6	710.6	703.9	693.8	678.6
47.5°	840.6	749.5	697.1	685.3	685.3	690.4	692.1	692.1	685.3	675.2	663.4
50°	801.8	703.9	656.6	646.5	641.4	641.4	641.4	641.4	636.4	629.6	621.2
52.5°	781.5	678.6	629.6	619.5	619.5	614.4	612.7	607.7	602.6	597.5	585.7
55°	774.8	668.4	617.8	609.4	609.4	604.3	599.2	594.2	585.7	577.3	565.5
57.5°	756.2	646.5	602.6	595.9	595.9	592.5	587.4	582.4	573.9	562.1	546.9
60°	714.0	609.4	572.2	570.5	570.5	568.8	565.5	565.5	557.0	545.2	526.7
62.5°	660.0	570.5	535.1	535.1	533.4	531.7	525.0	523.3	513.1	498.0	481.1
65°	607.7	536.8	513.1	506.4	503.0	498.0	494.6	486.1	477.7	464.2	447.3
67.5°	541.8	486.1	470.9	464.2	457.4	452.4	447.3	442.3	432.1	422.0	408.5
70°	470.9	430.4	422.0	420.3	411.9	406.8	405.1	400.1	389.9	379.8	362.9
72.5°	403.4	379.8	373.0	373.0	362.9	356.2	352.8	351.1	344.3	335.9	320.7
75°	325.8	308.9	307.2	315.7	315.7	310.6	307.2	310.6	300.5	295.4	280.2
77.5°	266.7	258.3	253.2	256.6	266.7	261.6	254.9	254.9	254.9	246.4	241.4
80°	226.2	219.4	214.4	217.7	216.1	214.4	211.0	204.2	204.2	204.2	202.6
82.5°	204.2	202.6	184.0	184.0	177.2	172.2	168.8	165.4	162.0	162.0	170.5
85°	153.6	158.7	148.5	146.9	138.4	131.7	124.9	121.5	118.2	123.2	140.1
87.5°	74.3	74.3	70.9	79.3	72.6	69.2	64.1	60.8	64.1	79.3	94.5
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°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2746.3	2744.7	2743.0	2739.6	2732.8	2731.2	2727.8	2727.8	2726.1	2722.7	2726.1
5°	2741.3	2744.7	2744.7	2743.0	2737.9	2741.3	2741.3	2746.3	2746.3	2749.7	2758.2
7.5°	2734.5	2743.0	2749.7	2754.8	2761.5	2766.6	2776.7	2791.9	2798.7	2810.5	2815.6
10°	2721.0	2736.2	2748.0	2763.2	2780.1	2798.7	2813.9	2837.5	2845.9	2862.8	2871.3
12.5°	2682.2	2707.5	2727.8	2758.2	2786.9	2815.6	2842.6	2872.9	2888.1	2906.7	2918.5
15°	2587.7	2616.4	2645.1	2672.1	2722.7	2778.4	2822.3	2862.8	2884.8	2908.4	2920.2
17.5°	2474.6	2493.1	2516.8	2552.2	2601.2	2650.1	2721.0	2778.4	2812.2	2839.2	2842.6
20°	2342.9	2369.9	2386.8	2400.3	2439.1	2472.9	2548.9	2614.7	2658.6	2690.6	2699.1
22.5°	2142.0	2170.7	2199.4	2209.6	2240.0	2283.8	2326.0	2396.9	2459.4	2506.7	2535.3
25°	1912.5	1939.5	1978.3	2008.7	2015.5	2050.9	2093.1	2174.1	2238.3	2314.2	2348.0
27.5°	1682.9	1706.5	1748.7	1765.6	1785.9	1821.3	1855.1	1922.6	1990.1	2077.9	2115.0
30°	1414.5	1465.2	1514.1	1546.2	1563.1	1605.3	1628.9	1694.7	1757.2	1821.3	1875.3
32.5°	1185.0	1230.5	1286.2	1326.8	1347.0	1379.1	1416.2	1471.9	1520.9	1583.3	1645.8
35°	974.0	1036.4	1073.6	1109.0	1161.3	1176.5	1213.7	1264.3	1293.0	1360.5	1431.4
37.5°	825.4	862.6	899.7	935.1	979.0	999.3	1034.7	1076.9	1110.7	1151.2	1215.3
40°	734.3	754.5	781.5	805.2	837.2	862.6	881.1	916.6	941.9	982.4	1028.0
42.5°	692.1	697.1	700.5	717.4	734.3	751.2	771.4	786.6	817.0	847.4	876.1
45°	668.4	658.3	653.2	654.9	661.7	671.8	688.7	705.6	725.8	744.4	761.3
47.5°	648.2	634.7	619.5	611.0	612.7	616.1	629.6	643.1	653.2	668.4	675.2
50°	600.9	589.1	575.6	563.8	565.5	567.2	579.0	589.1	595.9	600.9	609.4
52.5°	570.5	553.7	541.8	530.0	528.3	533.4	543.5	553.7	557.0	560.4	562.1
55°	548.6	531.7	516.5	504.7	499.6	511.5	514.8	528.3	533.4	533.4	535.1
57.5°	531.7	511.5	496.3	484.5	476.0	484.5	492.9	508.1	509.8	506.4	506.4
60°	506.4	491.2	476.0	464.2	455.8	462.5	469.3	486.1	486.1	477.7	476.0
62.5°	462.5	454.1	443.9	438.9	437.2	443.9	449.0	462.5	457.4	447.3	443.9
65°	430.4	423.7	413.6	410.2	408.5	418.6	420.3	428.7	422.0	416.9	415.2
67.5°	391.6	386.5	381.5	379.8	374.7	374.7	378.1	383.2	379.8	379.8	381.5
70°	347.7	341.0	335.9	337.6	334.2	334.2	335.9	339.3	337.6	341.0	344.3
72.5°	307.2	298.8	297.1	297.1	293.7	295.4	295.4	297.1	300.5	302.1	310.6
75°	268.4	259.9	259.9	258.3	258.3	258.3	259.9	263.3	266.7	268.4	271.8
77.5°	232.9	227.9	229.6	227.9	227.9	227.9	227.9	232.9	234.6	236.3	241.4
80°	200.9	200.9	202.6	202.6	200.9	199.2	200.9	204.2	205.9	207.6	209.3
82.5°	182.3	184.0	184.0	184.0	175.6	172.2	177.2	180.6	184.0	185.7	189.1
85°	157.0	150.2	157.0	155.3	143.5	141.8	141.8	143.5	146.9	143.5	143.5
87.5°	101.3	91.2	96.2	96.2	84.4	69.2	87.8	94.5	84.4	89.5	89.5
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: P159158

CATALOG NUMBER: VST-E10-LED-E-U-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2731.2	2727.8	2729.5	2729.5	2732.8	2727.8	2734.5	2741.3	2743.0	2743.0	2744.7
5°	2766.6	2763.2	2775.0	2770.0	2781.8	2780.1	2788.5	2795.3	2798.7	2798.7	2798.7
7.5°	2822.3	2834.1	2840.9	2859.4	2861.1	2871.3	2879.7	2888.1	2884.8	2886.4	2884.8
10°	2884.8	2900.0	2916.8	2935.4	2937.1	2948.9	2962.4	2970.8	2967.5	2965.8	2960.7
12.5°	2938.8	2948.9	2969.2	2987.7	2997.9	3016.4	3029.9	3036.7	3036.7	3031.6	3026.6
15°	2935.4	2950.6	2972.5	2999.5	3018.1	3045.1	3068.8	3083.9	3085.6	3080.6	3078.9
17.5°	2861.1	2883.1	2903.3	2940.5	2974.2	3011.4	3050.2	3072.1	3092.4	3104.2	3111.0
20°	2727.8	2754.8	2783.5	2832.4	2878.0	2927.0	2972.5	3004.6	3035.0	3070.4	3112.6
22.5°	2570.8	2611.3	2651.8	2714.3	2770.0	2825.7	2878.0	2916.8	2964.1	3024.9	3104.2
25°	2386.8	2429.0	2479.6	2552.2	2623.1	2704.1	2781.8	2859.4	2950.6	3055.2	3178.5
27.5°	2169.1	2216.3	2282.2	2369.9	2450.9	2533.7	2655.2	2778.4	2927.0	3062.0	3202.1
30°	1953.0	2013.8	2084.7	2172.4	2253.5	2371.6	2493.1	2645.1	2802.0	2954.0	3121.1
32.5°	1720.1	1796.0	1883.8	1956.4	2047.5	2167.4	2288.9	2450.9	2618.1	2797.0	2981.0
35°	1495.6	1568.1	1637.3	1718.4	1809.5	1922.6	2040.8	2196.1	2407.1	2597.8	2817.2
37.5°	1267.7	1335.2	1384.1	1448.3	1527.6	1652.5	1779.1	1958.1	2157.2	2391.9	2611.3
40°	1068.5	1124.2	1179.9	1230.5	1298.1	1416.2	1551.3	1726.8	1922.6	2150.5	2395.2
42.5°	909.8	952.0	1012.8	1073.6	1130.9	1232.2	1358.8	1531.0	1725.1	1958.1	2202.8
45°	776.5	805.2	854.1	904.8	975.7	1060.1	1181.6	1357.1	1554.6	1789.3	2047.5
47.5°	680.3	693.8	727.5	779.8	845.7	928.4	1033.0	1191.7	1384.1	1620.5	1892.2
50°	614.4	629.6	646.5	690.4	749.5	833.9	920.0	1058.4	1233.9	1465.2	1735.2
52.5°	568.8	575.6	582.4	609.4	663.4	734.3	825.4	930.1	1107.3	1328.4	1571.5
55°	541.8	543.5	548.6	562.1	602.6	668.4	747.8	847.4	985.8	1195.1	1443.2
57.5°	509.8	513.1	518.2	526.7	552.0	611.0	678.6	759.6	874.4	1049.9	1287.9
60°	479.4	487.8	496.3	501.3	514.8	550.3	607.7	671.8	764.7	896.3	1085.4
62.5°	447.3	457.4	464.2	469.3	474.3	496.3	538.5	580.7	638.1	724.1	865.9
65°	418.6	425.4	430.4	433.8	437.2	443.9	462.5	479.4	496.3	548.6	651.6
67.5°	386.5	389.9	391.6	393.3	391.6	391.6	393.3	400.1	406.8	427.1	476.0
70°	349.4	354.5	354.5	356.2	356.2	351.1	351.1	351.1	351.1	356.2	383.2
72.5°	314.0	320.7	320.7	322.4	320.7	319.0	319.0	319.0	324.1	327.5	337.6
75°	280.2	287.0	285.3	287.0	288.6	288.6	292.0	293.7	298.8	300.5	307.2
77.5°	246.4	251.5	253.2	251.5	254.9	258.3	265.0	268.4	270.1	271.8	273.5
80°	214.4	217.7	216.1	211.0	219.4	224.5	234.6	246.4	243.1	244.8	248.1
82.5°	177.2	172.2	168.8	172.2	177.2	184.0	194.1	209.3	211.0	219.4	217.7
85°	136.7	121.5	119.8	128.3	126.6	135.0	151.9	163.7	173.9	182.3	173.9
87.5°	81.0	72.6	60.8	57.4	62.5	82.7	86.1	104.7	113.1	116.5	104.7
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: P159158  
 CATALOG NUMBER: VST-E10-LED-E-U-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2898.3	2906.7	2906.7	2910.1	2915.1	2916.8	2923.6	2935.4	2937.1	2937.1	2942.2
5°	2952.3	2960.7	2960.7	2967.5	2969.2	2977.6	2986.0	2999.5	3006.3	3004.6	3026.6
7.5°	3040.1	3033.3	3028.2	3038.4	3043.4	3053.6	3070.4	3082.3	3094.1	3112.6	3143.0
10°	3114.3	3104.2	3099.1	3105.9	3109.3	3121.1	3131.2	3148.1	3176.8	3205.5	3242.6
12.5°	3175.1	3163.3	3149.8	3153.2	3158.2	3173.4	3190.3	3212.2	3254.4	3291.6	3347.3
15°	3225.7	3208.9	3195.3	3202.1	3213.9	3234.2	3262.9	3301.7	3370.9	3435.0	3509.3
17.5°	3274.7	3271.3	3266.2	3288.2	3296.6	3343.9	3386.1	3457.0	3551.5	3647.7	3754.1
20°	3321.9	3359.1	3377.7	3421.5	3448.5	3512.7	3576.8	3662.9	3782.8	3914.4	4059.6
22.5°	3387.8	3489.1	3551.5	3641.0	3686.6	3755.8	3850.3	3963.4	4096.7	4265.5	4451.2
25°	3544.8	3693.3	3818.2	3958.3	4073.1	4179.4	4292.5	4429.3	4621.7	4775.3	5018.4
27.5°	3614.0	3823.3	4010.6	4208.1	4380.3	4544.0	4723.0	4888.4	5116.3	5323.9	5617.6
30°	3548.1	3784.5	4027.5	4285.8	4537.3	4785.4	5045.4	5298.6	5561.9	5852.2	6164.5
32.5°	3426.6	3691.6	3965.1	4268.9	4581.2	4903.6	5241.2	5609.2	5980.5	6341.7	6660.8
35°	3303.4	3588.6	3892.5	4240.2	4608.2	5008.2	5426.9	5892.7	6383.9	6841.4	7258.3
37.5°	3124.5	3438.4	3786.1	4187.9	4625.1	5118.0	5656.4	6230.3	6851.5	7481.1	8028.0
40°	2908.4	3240.9	3620.7	4083.2	4608.2	5231.1	5931.6	6667.5	7465.9	8234.0	8905.8
42.5°	2710.9	3035.0	3440.1	3943.1	4564.3	5330.6	6193.2	7109.8	8055.0	8914.2	9792.0
45°	2537.0	2894.9	3301.7	3845.2	4542.4	5415.0	6387.3	7440.6	8522.6	9545.5	10582.0
47.5°	2378.4	2749.7	3205.5	3791.2	4532.2	5465.7	6522.4	7656.7	8855.2	10030.0	11233.5
50°	2214.6	2575.9	3063.7	3732.1	4506.9	5464.0	6593.3	7803.5	9088.1	10406.4	11682.5
52.5°	2039.1	2402.0	2891.5	3624.1	4452.9	5433.6	6611.8	7903.1	9272.1	10637.7	12064.0
55°	1878.7	2218.0	2707.5	3443.5	4339.8	5359.3	6569.6	7945.3	9402.1	10867.2	12332.4
57.5°	1694.7	2047.5	2513.4	3195.3	4127.1	5227.7	6449.8	7886.3	9439.2	11020.8	12545.1
60°	1441.5	1787.6	2267.0	2901.6	3794.6	4949.2	6227.0	7707.3	9321.0	11047.8	12697.0
62.5°	1151.2	1450.0	1912.5	2496.5	3327.0	4512.0	5815.1	7305.6	8953.1	10794.6	12619.4
65°	855.8	1055.0	1453.4	1966.5	2785.2	3853.7	5151.7	6632.1	8234.0	10090.8	12131.5
67.5°	595.9	739.3	984.1	1365.6	2025.6	2975.9	4204.8	5580.5	7121.6	8787.6	11118.7
70°	450.7	516.5	649.9	862.6	1311.6	2027.3	3056.9	4282.4	5712.1	7317.4	9513.5
72.5°	384.9	418.6	492.9	590.8	803.5	1232.2	1919.2	2947.2	4214.9	5521.4	7298.8
75°	346.0	374.7	422.0	484.5	568.8	747.8	1125.9	1865.2	2791.9	3698.4	5092.6
77.5°	314.0	339.3	381.5	413.6	459.1	538.5	717.4	1115.8	1672.8	2285.5	3159.9
80°	280.2	295.4	334.2	366.3	401.7	447.3	514.8	700.5	960.5	1353.8	1863.5
82.5°	239.7	251.5	280.2	324.1	351.1	369.7	389.9	464.2	575.6	734.3	1034.7
85°	185.7	194.1	219.4	251.5	263.3	265.0	268.4	288.6	357.9	550.3	891.3
87.5°	94.5	104.7	131.7	141.8	119.8	130.0	131.7	140.1	185.7	302.1	307.2
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: P159158  
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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	0°
2.5°	2942.2	2947.2	2959.0	2957.3	2965.8	2965.8	2965.8	2974.2	2969.2	2974.2	2982.7	2.5°
5°	3026.6	3035.0	3051.9	3051.9	3053.6	3048.5	3058.6	3065.4	3056.9	3053.6	3055.2	5°
7.5°	3149.8	3163.3	3176.8	3190.3	3200.4	3195.3	3197.0	3181.8	3178.5	3166.7	3151.5	7.5°
10°	3269.6	3306.8	3332.1	3355.7	3357.4	3352.3	3354.0	3328.7	3323.6	3300.0	3284.8	10°
12.5°	3392.8	3440.1	3480.6	3505.9	3521.1	3524.5	3526.2	3526.2	3502.6	3482.3	3446.9	12.5°
15°	3575.1	3657.9	3720.3	3747.3	3769.3	3789.5	3794.6	3801.3	3782.8	3755.8	3750.7	15°
17.5°	3863.8	3941.4	4024.1	4096.7	4145.7	4149.1	4191.3	4187.9	4226.7	4196.3	4187.9	17.5°
20°	4206.5	4375.2	4461.3	4557.6	4613.3	4640.3	4738.2	4707.8	4736.5	4785.4	4736.5	20°
22.5°	4635.2	4849.6	4974.5	5106.1	5197.3	5263.1	5334.0	5389.7	5467.4	5504.5	5470.7	22.5°
25°	5204.0	5448.8	5597.3	5779.6	5924.8	6043.0	6166.2	6314.7	6313.1	6402.5	6465.0	25°
27.5°	5857.3	6169.6	6385.6	6706.4	6831.3	7030.4	7241.4	7471.0	7511.5	7628.0	7687.1	27.5°
30°	6471.7	6858.3	7287.0	7668.5	8100.6	8396.0	8640.8	8802.8	9047.6	8986.8	8953.1	30°
32.5°	7038.9	7553.7	8164.8	8791.0	9476.3	9943.9	10376.0	10576.9	10728.8	10406.4	9979.3	32.5°
35°	7774.8	8391.0	9089.8	9862.9	10733.9	11397.3	11842.9	11905.3	11819.2	11405.7	10698.4	35°
37.5°	8686.4	9332.9	10127.9	10944.9	11869.9	12492.8	13000.8	13092.0	12864.1	12126.5	11383.7	37.5°
40°	9586.0	10344.0	11206.5	12173.7	13132.5	13817.8	14327.6	14354.6	13983.2	13120.7	12251.4	40°
42.5°	10570.1	11398.9	12359.4	13431.3	14422.1	15115.9	15483.9	15600.3	15075.4	13969.7	13135.9	42.5°
45°	11419.2	12410.0	13480.2	14619.6	15656.0	16314.3	16689.1	16651.9	16017.3	14925.1	13947.8	45°
47.5°	12246.3	13336.7	14464.3	15674.6	16704.3	17369.3	17754.2	17720.4	16915.3	15657.7	14582.5	47.5°
50°	12982.3	14165.5	15370.8	16663.8	17690.0	18299.4	18770.4	18621.8	17604.0	16246.8	14991.0	50°
52.5°	13493.7	14813.7	16073.0	17470.6	18527.3	19104.6	19703.8	19226.1	18010.8	16608.1	15210.4	52.5°
55°	13817.8	15259.4	16572.6	18118.8	19156.9	19847.3	20233.8	19555.3	18167.7	16707.6	15286.4	55°
57.5°	14037.3	15504.1	16866.3	18493.5	19724.1	20303.0	20397.6	19567.1	18066.5	16550.7	15210.4	57.5°
60°	14145.3	15576.7	16999.7	18756.9	20122.4	20439.8	20267.6	19293.6	17717.1	16089.8	14720.9	60°
62.5°	14133.5	15485.5	16930.5	18844.6	20201.8	20242.3	19850.7	18827.7	17073.9	15122.6	13907.3	62.5°
65°	13833.0	15153.0	16540.5	18518.8	19832.1	19658.2	19165.3	17953.4	15823.1	13860.0	13245.6	65°
67.5°	12967.1	14233.1	15521.0	17452.0	18790.6	18621.8	17875.7	16235.0	14369.8	12742.6	12411.7	67.5°
70°	11518.8	12592.3	13723.3	15419.7	16824.1	16596.2	15291.4	14293.8	12929.9	11451.3	11336.5	70°
72.5°	9629.9	10443.5	11263.9	12526.5	13493.7	13027.8	12207.5	12155.2	11052.9	9923.6	9947.3	72.5°
75°	7531.8	8142.8	8526.0	9268.7	9911.8	9494.9	9543.8	9834.2	9471.3	8581.7	8293.1	75°
77.5°	5457.2	6043.0	6164.5	6605.1	7057.5	7531.8	8159.7	8843.3	8958.1	8458.5	7411.9	77.5°
80°	3571.8	4216.6	3976.9	4133.9	4770.2	5636.2	6782.3	7908.2	8294.7	7845.7	6557.8	80°
82.5°	2106.6	3009.7	2628.2	2896.6	3300.0	4054.5	4846.2	5695.3	6341.7	5864.0	5477.5	82.5°
85°	1600.2	2373.3	2513.4	2839.2	2970.8	3002.9	3141.3	3418.2	3752.4	3877.3	3867.2	85°
87.5°	833.9	1845.0	2071.2	1915.9	1787.6	1549.6	1208.6	1301.4	1190.0	1627.2	1541.1	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°



IUMBER: P159158

NUMBER: VST-E10-LED-E-U-SLR-8030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2984.4	2979.3	2982.7	2984.4	2984.4	2984.4	2987.7
3053.6	3040.1	3035.0	3035.0	3033.3	3028.2	3026.6
3127.8	3104.2	3095.8	3085.6	3077.2	3072.1	3063.7
3261.2	3240.9	3198.7	3175.1	3153.2	3138.0	3124.5
3440.1	3411.4	3370.9	3340.5	3306.8	3296.6	3279.7
3716.9	3691.6	3656.2	3622.4	3602.2	3566.7	3541.4
4149.1	4098.4	4063.0	4019.1	3970.1	3897.6	3862.1
4717.9	4616.6	4545.7	4506.9	4409.0	4397.2	4311.1
5371.2	5340.8	5232.7	5185.5	5091.0	5053.8	4918.8
6348.5	6324.9	6103.7	6080.1	5934.9	5826.9	5617.6
7633.1	7438.9	7189.1	7015.3	6767.1	6488.6	6132.4
8755.6	8358.9	7977.4	7572.3	7229.6	6829.6	6426.1
9471.3	8939.6	8448.3	8033.1	7609.4	7133.4	6615.2
10099.2	9562.4	9027.3	8536.1	8023.0	7413.6	6773.9
10850.3	10316.9	9714.3	9024.0	8365.6	7619.6	6838.0
11620.1	10995.5	10242.7	9397.0	8569.9	7720.8	6826.2
12408.4	11609.9	10609.0	9645.1	8699.9	7736.0	6746.9
13048.1	12038.7	10880.7	9771.7	8726.9	7683.7	6647.3
13500.5	12313.8	11002.3	9815.6	8693.1	7601.0	6512.2
13758.7	12464.1	11032.6	9783.5	8623.9	7482.8	6365.4
13853.3	12509.6	11002.3	9717.7	8561.4	7356.2	6262.4
13843.1	12484.3	10890.9	9564.1	8394.3	7187.4	6135.8
13652.4	12249.7	10663.0	9380.1	8252.5	7109.8	6144.3
<b>13328.3</b>	<b>12101.1</b>	<b>10595.5</b>	<b>9417.3</b>	<b>8326.8</b>	<b>7276.9</b>	<b>6411.0</b>
13181.5	12398.2	10975.3	9788.6	8708.3	7754.6	6961.2
13098.7	12881.0	11518.8	10188.7	9160.7	8333.6	7617.9
12761.1	13019.4	11827.7	10416.5	9564.1	8914.2	8274.5
12215.9	12697.0	11593.1	10372.6	9786.9	9359.9	8510.8
11078.2	11586.3	10548.2	9726.2	9508.4	9366.6	8156.3
8975.0	9238.3	8647.5	8461.9	8542.9	8544.6	6841.4
6618.6	6459.9	6193.2	6206.7	6751.9	6667.5	4876.6
5403.2	4422.5	4044.4	4187.9	4861.4	4498.5	3063.7
5028.5	3944.8	3256.1	3289.9	3671.4	2898.3	1845.0
4066.3	3595.4	2883.1	2587.7	2511.7	1931.1	1252.5
1701.5	1564.8	1164.7	1049.9	860.9	526.7	239.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

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