

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: P159059

Luminaire Tested: **VTS-E11-LED-E1-SLR-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159059  
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: MCGRAW-EDISON  
Catalog Number: VTS-E11-LED-E1-SLR-7030  
Description: VENTUS LED SITE LUMINAIRE  
(11) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (231) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

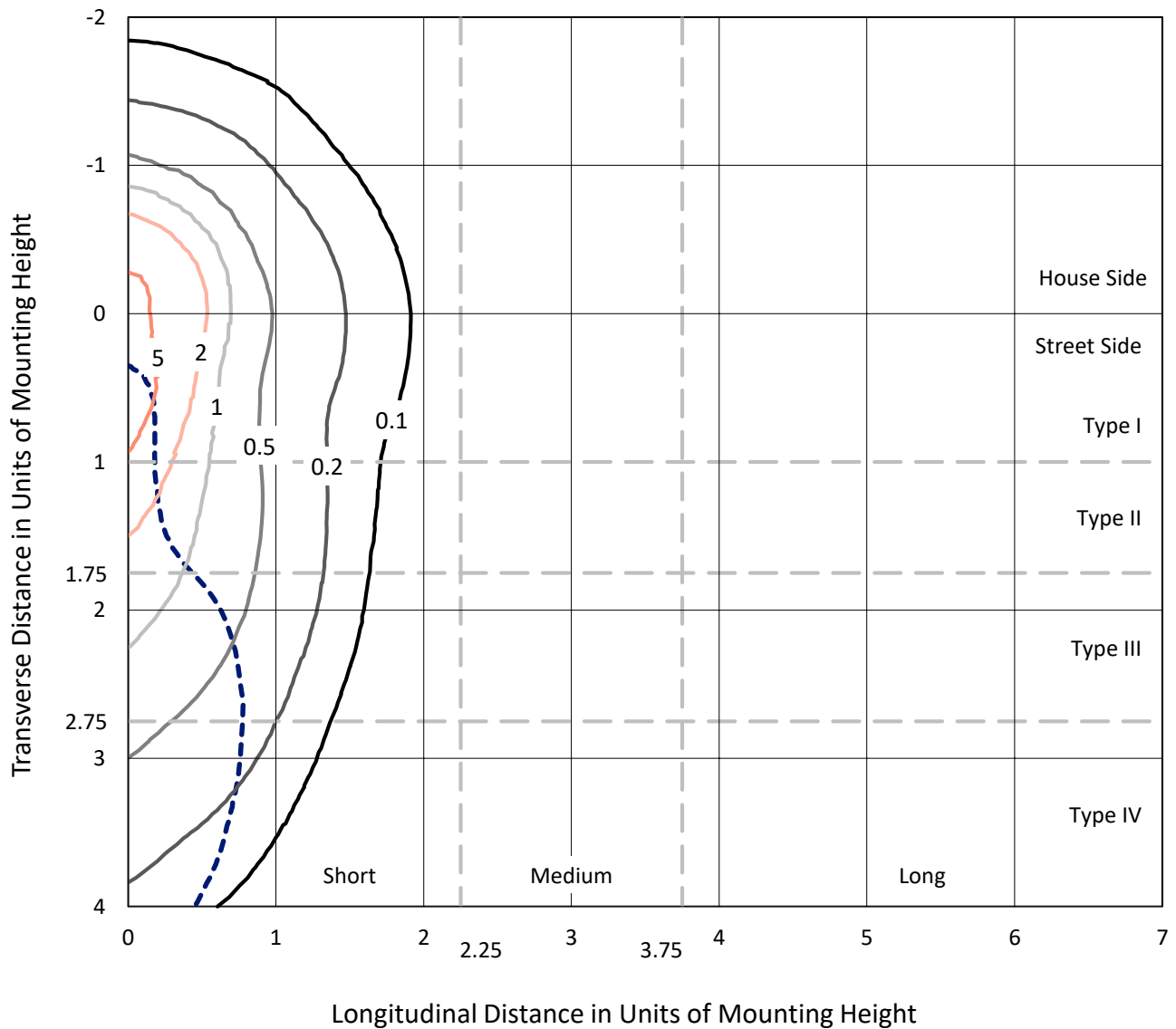
Lumens per Lamp: N/A  
Luminaire Lumens: 26998.7 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

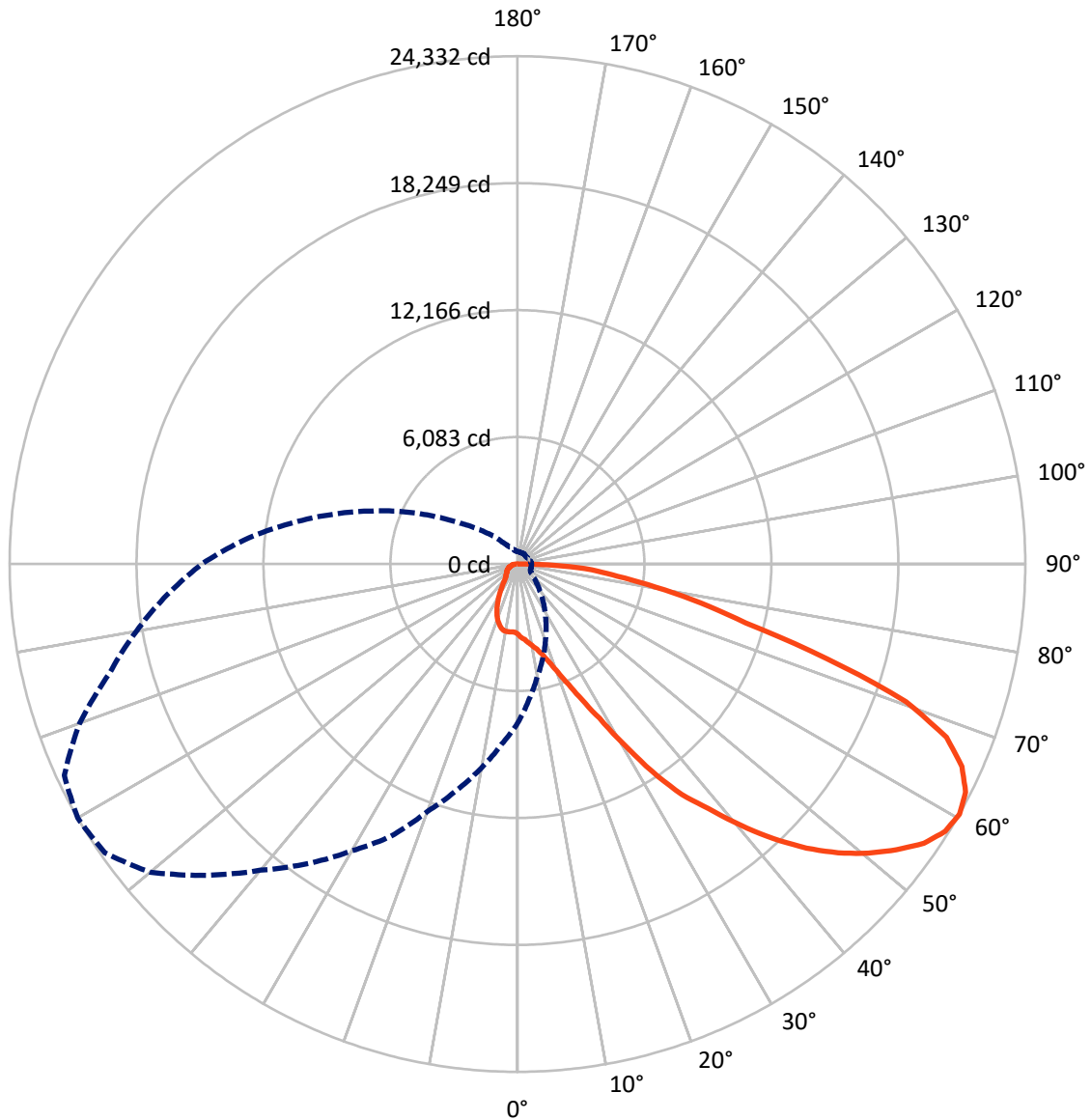
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	6079.3	0.0	6079.3
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	20919.5	0.0	20919.5
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	26998.7	0.0	26998.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.3	1.2
10°-20°	1069.6	4.0
20°-30°	2029.6	7.5
30°-40°	3196.2	11.8
40°-50°	4461.2	16.5
50°-60°	5517.4	20.4
60°-70°	5719.1	21.2
70°-80°	3598.7	13.3
80°-90°	1075.7	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°	26998.7	100.0
0°-180°	26998.7	100.0



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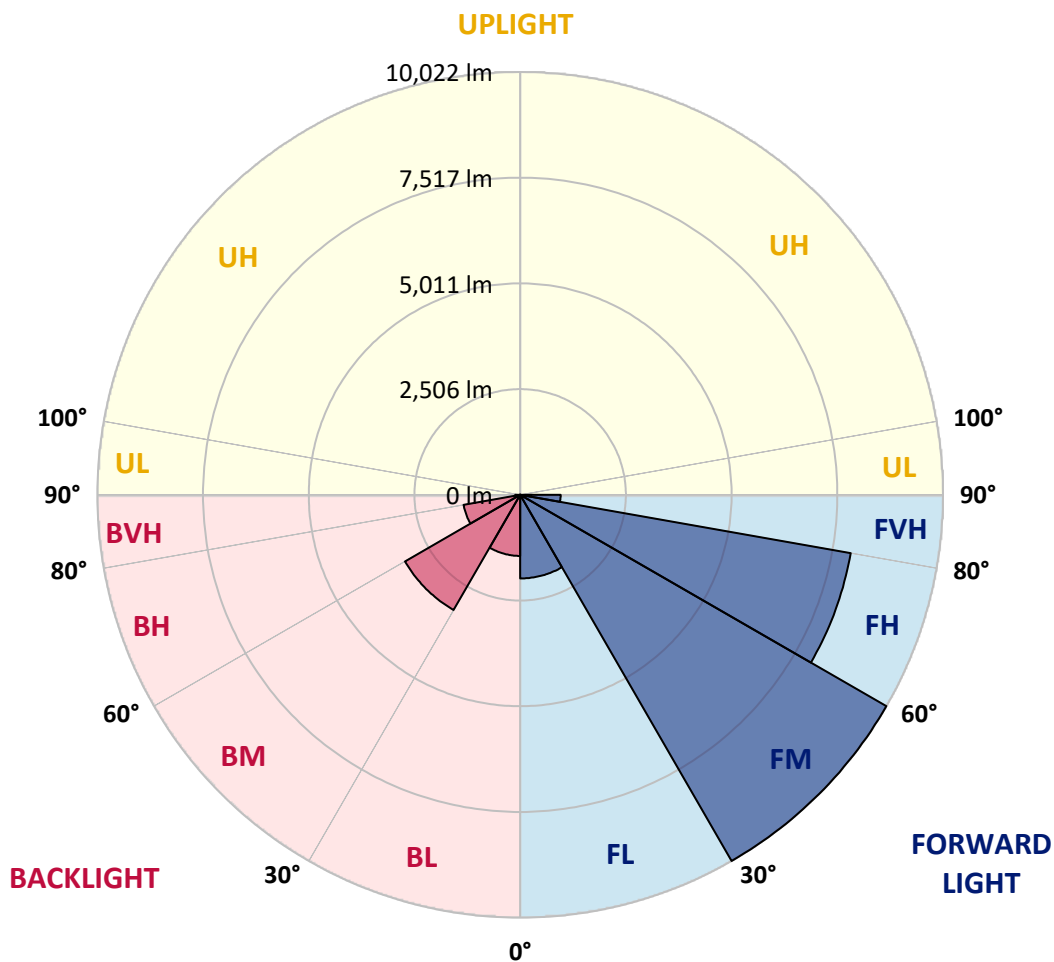
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1982.1	7.3			
FM	(30°-60°)	10022.4	37.1			
FH	(60°-80°)	7956.3	29.5			G4/12000
FVH	(80°-90°)	958.7	3.6			G5
BL	(0°-30°)	1448.3	5.4	B3/2500		
BM	(30°-60°)	3152.5	11.7	B3/5000		
BH	(60°-80°)	1361.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	117.0	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°	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7
2.5°	3556.6	3343.6	3347.6	3341.6	3341.6	3337.6	3341.6	3337.6	3333.5	3333.5	3335.6
5°	3602.8	3367.7	3367.7	3361.7	3357.7	3353.6	3357.7	3353.6	3351.6	3347.6	3349.6
7.5°	3647.0	3381.8	3373.7	3365.7	3355.6	3359.7	3359.7	3357.7	3359.7	3357.7	3361.7
10°	3719.3	3428.0	3407.9	3389.8	3387.8	3383.8	3383.8	3377.8	3377.8	3373.7	3375.7
12.5°	3904.2	3570.7	3548.5	3516.4	3510.4	3492.3	3482.2	3470.2	3450.1	3432.0	3417.9
15°	4215.7	3807.8	3765.6	3737.4	3725.4	3689.2	3632.9	3588.7	3530.5	3480.2	3428.0
17.5°	4597.4	4125.2	4075.0	4038.8	3978.6	3880.1	3785.7	3677.1	3564.6	3462.1	3367.7
20°	5131.9	4581.4	4482.9	4396.5	4245.8	4077.0	3900.2	3711.3	3538.5	3377.8	3239.1
22.5°	5855.3	5170.1	4987.3	4756.2	4476.9	4191.5	3910.2	3649.0	3417.9	3209.0	3024.1
25°	6687.2	5732.7	5403.2	5005.3	4577.3	4183.5	3813.8	3478.2	3209.0	2939.7	2738.8
27.5°	7300.0	6202.9	5716.7	5194.2	4647.7	4145.3	3691.2	3285.3	2959.8	2684.5	2441.4
30°	7649.7	6472.2	5887.5	5274.6	4659.7	4081.0	3536.5	3066.3	2690.5	2363.0	2129.9
32.5°	7874.7	6616.9	5905.5	5194.2	4515.1	3890.1	3301.4	2813.1	2405.2	2055.6	1808.4
35°	8063.6	6675.1	5821.1	5015.4	4241.8	3600.8	3000.0	2511.7	2079.7	1758.2	1505.0
37.5°	8140.0	6665.1	5686.5	4776.3	3974.5	3285.3	2692.6	2192.2	1806.4	1523.1	1306.1
40°	8125.9	6572.7	5503.7	4521.1	3661.1	2955.8	2367.0	1927.0	1613.5	1374.4	1215.7
42.5°	8031.5	6450.1	5300.7	4261.9	3373.7	2682.5	2146.0	1756.2	1503.0	1322.2	1183.5
45°	7912.9	6303.4	5115.9	4024.8	3146.7	2487.6	2017.4	1708.0	1488.9	1316.1	1167.4
47.5°	7752.2	6140.6	4929.0	3856.0	3026.1	2429.3	2015.4	1736.1	1501.0	1302.1	1139.3
50°	7577.3	6022.1	4826.5	3783.6	3012.0	2465.5	2085.7	1780.3	1509.0	1288.0	1101.1
52.5°	7454.8	5969.8	4824.5	3809.8	3086.4	2566.0	2168.1	1836.6	1539.2	1296.0	1093.1
55°	7304.1	5961.8	4876.7	3922.3	3249.2	2736.8	2298.7	1933.0	1601.5	1326.2	1099.1
57.5°	7314.1	6120.5	5079.7	4199.6	3542.5	2967.8	2465.5	2051.6	1661.7	1344.3	1089.1
60°	7631.6	6490.3	5479.6	4673.8	3926.3	3239.1	2636.3	2115.9	1657.7	1304.1	1040.9
62.5°	8286.6	7044.9	6078.3	5230.4	4316.1	3448.1	2698.6	2097.8	1597.4	1217.7	962.5
65°	9068.3	7693.9	6661.1	5662.4	4553.2	3496.3	2644.3	1997.3	1476.9	1105.2	868.0
67.5°	9849.9	8154.0	6996.6	5785.0	4456.8	3301.4	2443.4	1772.3	1271.9	952.4	761.6
70°	10131.2	8248.5	6970.5	5509.7	4018.7	2817.1	2011.4	1426.7	1020.8	779.6	641.0
72.5°	9709.3	7657.7	6196.9	4681.8	3267.2	2184.2	1474.9	1052.9	779.6	610.8	522.4
75°	8144.0	6166.8	4898.8	3526.4	2359.0	1545.2	1065.0	767.6	586.7	484.3	417.9
77.5°	5805.1	4294.0	3337.6	2316.8	1531.1	1071.0	763.6	576.7	466.2	387.8	339.6
80°	3647.0	2636.3	2033.5	1390.5	954.5	727.4	548.6	456.1	375.8	315.5	283.3
82.5°	2196.2	1535.2	1197.6	864.0	626.9	498.3	403.9	357.7	299.4	261.2	243.1
85°	1491.0	1129.3	785.7	510.4	377.8	293.4	275.3	247.2	223.0	186.9	180.8
87.5°	285.3	403.9	351.6	209.0	138.6	118.6	104.5	100.5	90.4	72.3	82.4
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°	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7
2.5°	3323.5	3319.5	3311.4	3311.4	3305.4	3293.4	3291.3	3283.3	3273.3	3275.3	3273.3
5°	3335.6	3327.5	3317.5	3313.5	3305.4	3293.4	3287.3	3277.3	3267.2	3267.2	3267.2
7.5°	3349.6	3339.6	3331.5	3317.5	3301.4	3289.3	3273.3	3261.2	3255.2	3253.2	3255.2
10°	3361.7	3355.6	3343.6	3323.5	3301.4	3277.3	3261.2	3245.1	3229.1	3231.1	3233.1
12.5°	3387.8	3367.7	3335.6	3305.4	3271.3	3241.1	3213.0	3192.9	3172.8	3172.8	3174.8
15°	3369.7	3311.4	3267.2	3209.0	3170.8	3122.6	3090.4	3072.3	3060.3	3056.3	3058.3
17.5°	3263.2	3192.9	3126.6	3074.3	3022.1	2983.9	2969.8	2957.8	2941.7	2949.8	2941.7
20°	3102.5	3016.1	2921.6	2859.3	2797.0	2770.9	2746.8	2734.8	2724.7	2760.9	2760.9
22.5°	2871.4	2766.9	2670.5	2594.1	2523.8	2495.6	2471.5	2457.5	2463.5	2507.7	2511.7
25°	2580.0	2453.4	2326.9	2280.6	2210.3	2188.2	2174.1	2172.1	2178.2	2222.4	2232.4
27.5°	2270.6	2138.0	2029.5	1923.0	1890.8	1872.7	1846.6	1876.8	1882.8	1931.0	1951.1
30°	1941.1	1798.4	1683.9	1613.5	1545.2	1555.3	1533.1	1569.3	1585.4	1635.6	1651.7
32.5°	1603.5	1468.9	1354.3	1284.0	1235.8	1241.8	1225.7	1257.9	1273.9	1334.2	1364.4
35°	1326.2	1211.7	1119.2	1058.9	1036.8	1014.7	1010.7	1014.7	1030.8	1077.0	1131.3
37.5°	1167.4	1073.0	1006.7	962.5	932.3	918.3	910.2	910.2	910.2	920.3	946.4
40°	1099.1	1014.7	956.5	914.3	894.2	886.1	880.1	874.1	864.0	860.0	862.0
42.5°	1069.0	972.5	910.2	878.1	866.0	866.0	866.0	862.0	852.0	841.9	831.9
45°	1038.8	934.4	872.1	850.0	843.9	845.9	845.9	845.9	837.9	825.9	807.8
47.5°	1000.7	892.2	829.9	815.8	815.8	821.8	823.8	823.8	815.8	803.7	789.7
50°	954.5	837.9	781.6	769.6	763.6	763.6	763.6	763.6	757.5	749.5	739.4
52.5°	930.3	807.8	749.5	737.4	737.4	731.4	729.4	723.4	717.3	711.3	697.3
55°	922.3	795.7	735.4	725.4	725.4	719.4	713.3	707.3	697.3	687.2	673.1
57.5°	900.2	769.6	717.3	709.3	709.3	705.3	699.3	693.2	683.2	669.1	651.0
60°	850.0	725.4	681.2	679.2	679.2	677.2	673.1	673.1	663.1	649.0	626.9
62.5°	785.7	679.2	637.0	637.0	635.0	633.0	624.9	622.9	610.8	592.8	572.7
65°	723.4	639.0	610.8	602.8	598.8	592.8	588.7	578.7	568.7	552.6	532.5
67.5°	645.0	578.7	560.6	552.6	544.5	538.5	532.5	526.5	514.4	502.3	486.3
70°	560.6	512.4	502.3	500.3	490.3	484.3	482.2	476.2	464.2	452.1	432.0
72.5°	480.2	452.1	444.1	444.1	432.0	424.0	420.0	417.9	409.9	399.9	381.8
75°	387.8	367.7	365.7	375.8	375.8	369.7	365.7	369.7	357.7	351.6	333.6
77.5°	317.5	307.4	301.4	305.4	317.5	311.5	303.4	303.4	303.4	293.4	287.3
80°	269.3	261.2	255.2	259.2	257.2	255.2	251.2	243.1	243.1	243.1	241.1
82.5°	243.1	241.1	219.0	219.0	211.0	205.0	200.9	196.9	192.9	192.9	202.9
85°	182.9	188.9	176.8	174.8	164.8	156.7	148.7	144.7	140.7	146.7	166.8
87.5°	88.4	88.4	84.4	94.4	86.4	82.4	76.4	72.3	76.4	94.4	112.5
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°	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7
2.5°	3269.2	3267.2	3265.2	3261.2	3253.2	3251.2	3247.1	3247.1	3245.1	3241.1	3245.1
5°	3263.2	3267.2	3267.2	3265.2	3259.2	3263.2	3263.2	3269.2	3269.2	3273.3	3283.3
7.5°	3255.2	3265.2	3273.3	3279.3	3287.3	3293.4	3305.4	3323.5	3331.5	3345.6	3351.6
10°	3239.1	3257.2	3271.3	3289.3	3309.4	3331.5	3349.6	3377.8	3387.8	3407.9	3417.9
12.5°	3192.9	3223.0	3247.1	3283.3	3317.5	3351.6	3383.8	3419.9	3438.0	3460.1	3474.2
15°	3080.4	3114.5	3148.7	3180.8	3241.1	3307.4	3359.7	3407.9	3434.0	3462.1	3476.2
17.5°	2945.7	2967.8	2996.0	3038.2	3096.4	3154.7	3239.1	3307.4	3347.6	3379.8	3383.8
20°	2789.0	2821.2	2841.3	2857.3	2903.5	2943.7	3034.1	3112.5	3164.8	3202.9	3213.0
22.5°	2549.9	2584.1	2618.2	2630.3	2666.4	2718.7	2768.9	2853.3	2927.7	2983.9	3018.1
25°	2276.6	2308.8	2355.0	2391.2	2399.2	2441.4	2491.6	2588.1	2664.4	2754.8	2795.0
27.5°	2003.3	2031.5	2081.7	2101.8	2125.9	2168.1	2208.3	2288.7	2369.0	2473.5	2517.7
30°	1683.9	1744.1	1802.4	1840.6	1860.7	1910.9	1939.0	2017.4	2091.8	2168.1	2232.4
32.5°	1410.6	1464.8	1531.1	1579.4	1603.5	1641.7	1685.9	1752.2	1810.4	1884.8	1959.1
35°	1159.4	1233.8	1278.0	1320.2	1382.4	1400.5	1444.7	1505.0	1539.2	1619.6	1703.9
37.5°	982.6	1026.8	1071.0	1113.2	1165.4	1189.5	1231.7	1282.0	1322.2	1370.4	1446.7
40°	874.1	898.2	930.3	958.5	996.6	1026.8	1048.9	1091.1	1121.2	1169.5	1223.7
42.5°	823.8	829.9	833.9	854.0	874.1	894.2	918.3	936.4	972.5	1008.7	1042.9
45°	795.7	783.7	777.6	779.6	787.7	799.7	819.8	839.9	864.0	886.1	906.2
47.5°	771.6	755.5	737.4	727.4	729.4	733.4	749.5	765.6	777.6	795.7	803.7
50°	715.3	701.3	685.2	671.1	673.1	675.1	689.2	701.3	709.3	715.3	725.4
52.5°	679.2	659.1	645.0	630.9	628.9	635.0	647.0	659.1	663.1	667.1	669.1
55°	653.0	633.0	614.9	600.8	594.8	608.8	612.9	628.9	635.0	635.0	637.0
57.5°	633.0	608.8	590.8	576.7	566.6	576.7	586.7	604.8	606.8	602.8	602.8
60°	602.8	584.7	566.6	552.6	542.5	550.6	558.6	578.7	578.7	568.7	566.6
62.5°	550.6	540.5	528.5	522.4	520.4	528.5	534.5	550.6	544.5	532.5	528.5
65°	512.4	504.4	492.3	488.3	486.3	498.3	500.3	510.4	502.3	496.3	494.3
67.5°	466.2	460.1	454.1	452.1	446.1	446.1	450.1	456.1	452.1	452.1	454.1
70°	413.9	405.9	399.9	401.9	397.9	397.9	399.9	403.9	401.9	405.9	409.9
72.5°	365.7	355.7	353.6	353.6	349.6	351.6	351.6	353.6	357.7	359.7	369.7
75°	319.5	309.4	309.4	307.4	307.4	307.4	309.4	313.5	317.5	319.5	323.5
77.5°	277.3	271.3	273.3	271.3	271.3	271.3	271.3	277.3	279.3	281.3	287.3
80°	239.1	239.1	241.1	241.1	239.1	237.1	239.1	243.1	245.1	247.2	249.2
82.5°	217.0	219.0	219.0	219.0	209.0	205.0	211.0	215.0	219.0	221.0	225.0
85°	186.9	178.8	186.9	184.9	170.8	168.8	168.8	170.8	174.8	170.8	170.8
87.5°	120.6	108.5	114.5	114.5	100.5	82.4	104.5	112.5	100.5	106.5	106.5
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: P159059

CATALOG NUMBER: VTS-E11-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7
2.5°	3251.2	3247.1	3249.2	3249.2	3253.2	3247.1	3255.2	3263.2	3265.2	3265.2	3267.2
5°	3293.4	3289.3	3303.4	3297.4	3311.4	3309.4	3319.5	3327.5	3331.5	3331.5	3331.5
7.5°	3359.7	3373.7	3381.8	3403.9	3405.9	3417.9	3428.0	3438.0	3434.0	3436.0	3434.0
10°	3434.0	3452.1	3472.2	3494.3	3496.3	3510.4	3526.4	3536.5	3532.5	3530.5	3524.4
12.5°	3498.3	3510.4	3534.5	3556.6	3568.6	3590.7	3606.8	3614.9	3614.9	3608.8	3602.8
15°	3494.3	3512.4	3538.5	3570.7	3592.8	3624.9	3653.0	3671.1	3673.1	3667.1	3665.1
17.5°	3405.9	3432.0	3456.1	3500.3	3540.5	3584.7	3630.9	3657.1	3681.2	3695.2	3703.3
20°	3247.1	3279.3	3313.5	3371.7	3426.0	3484.2	3538.5	3576.7	3612.8	3655.0	3705.3
22.5°	3060.3	3108.5	3156.7	3231.1	3297.4	3363.7	3426.0	3472.2	3528.5	3600.8	3695.2
25°	2841.3	2891.5	2951.8	3038.2	3122.6	3219.0	3311.4	3403.9	3512.4	3637.0	3783.6
27.5°	2582.0	2638.3	2716.7	2821.2	2917.6	3016.1	3160.7	3307.4	3484.2	3645.0	3811.8
30°	2324.8	2397.2	2481.6	2586.1	2682.5	2823.2	2967.8	3148.7	3335.6	3516.4	3715.3
32.5°	2047.5	2138.0	2242.5	2328.9	2437.4	2580.0	2724.7	2917.6	3116.5	3329.5	3548.5
35°	1780.3	1866.7	1949.1	2045.5	2154.0	2288.7	2429.3	2614.2	2865.4	3092.4	3353.6
37.5°	1509.0	1589.4	1647.7	1724.0	1818.5	1967.2	2117.9	2330.9	2568.0	2847.3	3108.5
40°	1271.9	1338.2	1404.6	1464.8	1545.2	1685.9	1846.6	2055.6	2288.7	2559.9	2851.3
42.5°	1083.1	1133.3	1205.6	1278.0	1346.3	1466.8	1617.5	1822.5	2053.6	2330.9	2622.2
45°	924.3	958.5	1016.7	1077.0	1161.4	1261.9	1406.6	1615.5	1850.6	2129.9	2437.4
47.5°	809.8	825.9	866.0	928.3	1006.7	1105.2	1229.7	1418.6	1647.7	1929.0	2252.5
50°	731.4	749.5	769.6	821.8	892.2	992.6	1095.1	1259.9	1468.9	1744.1	2065.6
52.5°	677.2	685.2	693.2	725.4	789.7	874.1	982.6	1107.2	1318.1	1581.4	1870.7
55°	645.0	647.0	653.0	669.1	717.3	795.7	890.2	1008.7	1173.5	1422.6	1718.0
57.5°	606.8	610.8	616.9	626.9	657.1	727.4	807.8	904.2	1040.9	1249.8	1533.1
60°	570.7	580.7	590.8	596.8	612.9	655.1	723.4	799.7	910.2	1067.0	1292.0
62.5°	532.5	544.5	552.6	558.6	564.6	590.8	641.0	691.2	759.5	862.0	1030.8
65°	498.3	506.4	512.4	516.4	520.4	528.5	550.6	570.7	590.8	653.0	775.6
67.5°	460.1	464.2	466.2	468.2	466.2	466.2	468.2	476.2	484.3	508.4	566.6
70°	415.9	422.0	422.0	424.0	424.0	417.9	417.9	417.9	417.9	424.0	456.1
72.5°	373.7	381.8	381.8	383.8	381.8	379.8	379.8	379.8	385.8	389.8	401.9
75°	333.6	341.6	339.6	341.6	343.6	343.6	347.6	349.6	355.7	357.7	365.7
77.5°	293.4	299.4	301.4	299.4	303.4	307.4	315.5	319.5	321.5	323.5	325.5
80°	255.2	259.2	257.2	251.2	261.2	267.2	279.3	293.4	289.3	291.4	295.4
82.5°	211.0	205.0	200.9	205.0	211.0	219.0	231.1	249.2	251.2	261.2	259.2
85°	162.8	144.7	142.7	152.7	150.7	160.7	180.8	194.9	207.0	217.0	207.0
87.5°	96.4	86.4	72.3	68.3	74.3	98.5	102.5	124.6	134.6	138.6	124.6
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: P159059

CATALOG NUMBER: VTS-E11-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7
2.5°	3450.1	3460.1	3460.1	3464.2	3470.2	3472.2	3480.2	3494.3	3496.3	3496.3	3502.3
5°	3514.4	3524.4	3524.4	3532.5	3534.5	3544.5	3554.6	3570.7	3578.7	3576.7	3602.8
7.5°	3618.9	3610.8	3604.8	3616.9	3622.9	3635.0	3655.0	3669.1	3683.2	3705.3	3741.4
10°	3707.3	3695.2	3689.2	3697.2	3701.3	3715.3	3727.4	3747.5	3781.6	3815.8	3860.0
12.5°	3779.6	3765.6	3749.5	3753.5	3759.5	3777.6	3797.7	3823.8	3874.1	3918.3	3984.6
15°	3839.9	3819.8	3803.7	3811.8	3825.8	3850.0	3884.1	3930.3	4012.7	4089.1	4177.5
17.5°	3898.2	3894.2	3888.1	3914.3	3924.3	3980.6	4030.8	4115.2	4227.7	4342.3	4468.8
20°	3954.4	3998.6	4020.8	4073.0	4105.1	4181.5	4257.9	4360.3	4503.0	4659.7	4832.5
22.5°	4032.8	4153.4	4227.7	4334.2	4388.5	4470.8	4583.4	4718.0	4876.7	5077.7	5298.7
25°	4219.7	4396.5	4545.2	4712.0	4848.6	4975.2	5109.8	5272.6	5501.7	5684.5	5973.9
27.5°	4302.1	4551.2	4774.3	5009.4	5214.3	5409.2	5622.2	5819.1	6090.4	6337.6	6687.2
30°	4223.7	4505.0	4794.4	5101.8	5401.2	5696.6	6006.0	6307.4	6620.9	6966.5	7338.2
32.5°	4079.0	4394.5	4720.0	5081.7	5453.4	5837.2	6239.1	6677.1	7119.2	7549.2	7929.0
35°	3932.3	4271.9	4633.6	5047.5	5485.6	5961.8	6460.1	7014.7	7599.4	8144.0	8640.3
37.5°	3719.3	4093.1	4507.0	4985.2	5505.7	6092.4	6733.4	7416.6	8156.0	8905.5	9556.6
40°	3462.1	3858.0	4310.1	4860.7	5485.6	6227.0	7060.9	7937.0	8887.4	9801.7	10601.4
42.5°	3227.0	3612.8	4095.1	4693.9	5433.3	6345.6	7372.4	8463.5	9588.7	10611.5	11656.4
45°	3020.1	3446.1	3930.3	4577.3	5407.2	6446.1	7603.5	8857.3	10145.3	11363.0	12596.7
47.5°	2831.2	3273.3	3815.8	4513.0	5395.2	6506.3	7764.2	9114.5	10541.2	11939.7	13372.4
50°	2636.3	3066.3	3647.0	4442.7	5365.0	6504.3	7848.6	9289.3	10818.5	12387.8	13906.9
52.5°	2427.3	2859.3	3442.1	4314.1	5300.7	6468.2	7870.7	9407.9	11037.5	12663.1	14361.0
55°	2236.4	2640.3	3223.0	4099.1	5166.1	6379.8	7820.5	9458.1	11192.2	12936.3	14680.5
57.5°	2017.4	2437.4	2992.0	3803.7	4912.9	6223.0	7677.8	9387.8	11236.4	13119.2	14933.6
60°	1716.0	2127.9	2698.6	3454.1	4517.1	5891.5	7412.6	9174.8	11095.7	13151.3	15114.5
62.5°	1370.4	1726.0	2276.6	2971.9	3960.5	5371.0	6922.3	8696.6	10657.7	12849.9	15022.1
65°	1018.8	1255.9	1730.1	2340.9	3315.5	4587.4	6132.6	7894.8	9801.7	12012.0	14441.3
67.5°	709.3	880.1	1171.5	1625.6	2411.2	3542.5	5005.3	6643.0	8477.5	10460.8	13235.7
70°	536.5	614.9	773.6	1026.8	1561.3	2413.3	3639.0	5097.8	6799.7	8710.6	11324.8
72.5°	458.1	498.3	586.7	703.3	956.5	1466.8	2284.7	3508.4	5017.4	6572.7	8688.5
75°	411.9	446.1	502.3	576.7	677.2	890.2	1340.3	2220.4	3323.5	4402.5	6062.3
77.5°	373.7	403.9	454.1	492.3	546.5	641.0	854.0	1328.2	1991.3	2720.7	3761.5
80°	333.6	351.6	397.9	436.0	478.2	532.5	612.9	833.9	1143.3	1611.5	2218.3
82.5°	285.3	299.4	333.6	385.8	417.9	440.1	464.2	552.6	685.2	874.1	1231.7
85°	221.0	231.1	261.2	299.4	313.5	315.5	319.5	343.6	426.0	655.1	1060.9
87.5°	112.5	124.6	156.7	168.8	142.7	154.7	156.7	166.8	221.0	359.7	365.7
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: P159059  
 CATALOG NUMBER: VTS-E11-LED-E1-SLR-7030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	0°
2.5°	3502.3	3508.4	3522.4	3520.4	3530.5	3530.5	3530.5	3540.5	3534.5	3540.5	3550.6	2.5°
5°	3602.8	3612.8	3632.9	3632.9	3635.0	3628.9	3641.0	3649.0	3639.0	3635.0	3637.0	5°
7.5°	3749.5	3765.6	3781.6	3797.7	3809.8	3803.7	3805.7	3787.7	3783.6	3769.6	3751.5	7.5°
10°	3892.2	3936.4	3966.5	3994.6	3996.6	3990.6	3992.6	3962.5	3956.5	3928.3	3910.2	10°
12.5°	4038.8	4095.1	4143.3	4173.5	4191.5	4195.6	4197.6	4197.6	4169.4	4145.3	4103.1	12.5°
15°	4255.8	4354.3	4428.7	4460.8	4486.9	4511.0	4517.1	4525.1	4503.0	4470.8	4464.8	15°
17.5°	4599.4	4691.9	4790.3	4876.7	4935.0	4939.0	4989.3	4985.2	5031.5	4995.3	4985.2	17.5°
20°	5007.4	5208.3	5310.8	5425.3	5491.6	5523.8	5640.3	5604.1	5638.3	5696.6	5638.3	20°
22.5°	5517.7	5772.9	5921.6	6078.3	6186.9	6265.2	6349.6	6415.9	6508.4	6552.6	6512.4	22.5°
25°	6194.9	6486.2	6663.1	6880.1	7052.9	7193.5	7340.2	7517.1	7515.0	7621.5	7695.9	25°
27.5°	6972.5	7344.3	7601.4	7983.2	8131.9	8369.0	8620.2	8893.5	8941.7	9080.3	9150.7	27.5°
30°	7703.9	8164.1	8674.5	9128.6	9643.0	9994.6	10286.0	10478.9	10770.2	10697.9	10657.7	30°
32.5°	8379.1	8991.9	9719.3	10464.8	11280.6	11837.2	12351.6	12590.7	12771.6	12387.8	11879.4	32.5°
35°	9255.2	9988.6	10820.5	11740.8	12777.6	13567.3	14097.7	14172.1	14069.6	13577.3	12735.4	35°
37.5°	10340.2	11109.8	12056.2	13028.8	14129.9	14871.4	15476.2	15584.7	15313.4	14435.3	13551.2	37.5°
40°	11411.2	12313.4	13340.2	14491.6	15632.9	16448.7	17055.5	17087.7	16645.6	15618.8	14584.0	40°
42.5°	12582.7	13569.3	14712.6	15988.6	17168.1	17993.9	18432.0	18570.6	17945.7	16629.6	15636.9	42.5°
45°	13593.4	14772.9	16046.8	17403.2	18636.9	19420.6	19866.6	19822.4	19066.9	17766.9	16603.4	45°
47.5°	14578.0	15876.0	17218.3	18659.0	19884.7	20676.4	21134.6	21094.4	20135.9	18638.9	17359.0	47.5°
50°	15454.1	16862.6	18297.3	19836.5	21058.2	21783.6	22344.2	22167.4	20955.7	19340.2	17845.2	50°
52.5°	16062.9	17634.2	19133.2	20797.0	22054.9	22742.1	23455.4	22886.7	21440.0	19770.2	18106.4	52.5°
55°	16448.7	18164.7	19728.0	21568.6	22804.3	23626.2	24086.3	23278.6	21626.9	19888.8	18196.9	55°
57.5°	16709.9	18456.1	20077.6	22014.7	23479.5	24168.7	24281.2	23292.6	21506.3	19701.9	18106.4	57.5°
60°	16838.5	18542.5	20236.4	22328.1	23953.7	24331.5	24126.5	22967.1	21090.4	19153.3	17523.7	60°
62.5°	16824.5	18434.0	20154.0	22432.6	24048.1	24096.4	23630.2	22412.5	20324.8	18002.0	16555.2	62.5°
65°	16466.8	18038.1	19689.8	22044.8	23608.1	23401.1	22814.4	21371.7	18835.8	16498.9	15767.5	65°
67.5°	15436.0	16943.0	18476.2	20774.9	22368.3	22167.4	21279.2	19326.1	17105.8	15168.7	14774.9	67.5°
70°	13711.9	14989.9	16336.2	18355.6	20027.4	19756.1	18202.9	17015.4	15391.8	13631.6	13494.9	70°
72.5°	11463.5	12432.0	13408.5	14911.5	16062.9	15508.3	14531.8	14469.5	13157.4	11813.1	11841.2	72.5°
75°	8965.8	9693.2	10149.3	11033.5	11799.0	11302.7	11361.0	11706.6	11274.6	10215.6	9872.0	75°
77.5°	6496.3	7193.5	7338.2	7862.7	8401.2	8965.8	9713.3	10527.1	10663.7	10069.0	8823.1	77.5°
80°	4251.8	5019.4	4734.1	4920.9	5678.5	6709.3	8073.7	9413.9	9874.0	9339.6	7806.4	80°
82.5°	2507.7	3582.7	3128.6	3448.1	3928.3	4826.5	5768.9	6779.6	7549.2	6980.6	6520.4	82.5°
85°	1904.9	2825.2	2992.0	3379.8	3536.5	3574.7	3739.4	4069.0	4466.8	4615.5	4603.5	85°
87.5°	992.6	2196.2	2465.5	2280.6	2127.9	1844.6	1438.7	1549.2	1416.6	1937.0	1834.6	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: P159059

NUMBER: VTS-E11-LED-E1-SLR-7030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
3357.7	3357.7	3357.7	3357.7	3357.7	3357.7	3357.7
3552.6	3546.5	3550.6	3552.6	3552.6	3552.6	3556.6
3635.0	3618.9	3612.8	3612.8	3610.8	3604.8	3602.8
3723.4	3695.2	3685.2	3673.1	3663.1	3657.1	3647.0
3882.1	3858.0	3807.8	3779.6	3753.5	3735.4	3719.3
4095.1	4060.9	4012.7	3976.5	3936.4	3924.3	3904.2
4424.6	4394.5	4352.3	4312.1	4288.0	4245.8	4215.7
4939.0	4878.8	4836.6	4784.3	4726.0	4639.6	4597.4
5616.2	5495.6	5411.2	5365.0	5248.5	5234.4	5131.9
6393.8	6357.6	6229.0	6172.8	6060.3	6016.1	5855.3
7557.2	7529.1	7265.9	7237.8	7064.9	6936.3	6687.2
9086.4	8855.3	8557.9	8350.9	8055.6	7724.0	7300.0
10422.6	9950.4	9496.3	9014.0	8606.1	8129.9	7649.7
11274.6	10641.6	10056.9	9562.6	9058.2	8491.6	7874.7
12022.1	11383.1	10746.1	10161.4	9550.5	8825.2	8063.6
12916.2	12281.3	11563.9	10742.1	9958.4	9070.3	8140.0
13832.5	13089.0	12192.9	11186.2	10201.6	9190.9	8125.9
14770.9	13820.5	12628.9	11481.5	10356.3	9208.9	8031.5
15532.4	14330.8	12952.4	11632.2	10388.4	9146.7	7912.9
16070.9	14658.4	13097.1	11684.5	10348.3	9048.2	7752.2
16378.4	14837.2	13133.2	11646.3	10265.9	8907.5	7577.3
16490.9	14891.4	13097.1	11567.9	10191.5	8756.8	7454.8
16478.8	14861.3	12964.5	11385.1	9992.6	8555.9	7304.1
16251.8	14582.0	12693.2	11166.1	9823.8	8463.5	7314.1
15866.0	14405.2	12612.8	11210.3	9912.2	8662.4	7631.6
15691.2	14758.8	13064.9	11652.3	10366.3	9231.0	8286.6
15592.7	15333.5	13711.9	12128.6	10904.9	9920.3	9068.3
15190.8	15498.3	14079.7	12399.8	11385.1	10611.5	9849.9
14541.8	15114.5	13800.4	12347.6	11650.3	11142.0	10131.2
13187.5	13792.3	12556.6	11578.0	11318.8	11150.0	9709.3
10683.8	10997.3	10294.0	10073.0	10169.4	10171.4	8144.0
7878.7	7689.9	7372.4	7388.5	8037.5	7937.0	5805.1
6432.0	5264.6	4814.5	4985.2	5787.0	5355.0	3647.0
5985.9	4695.9	3876.1	3916.3	4370.4	3450.1	2196.2
4840.6	4280.0	3432.0	3080.4	2989.9	2298.7	1491.0
2025.4	1862.7	1386.5	1249.8	1024.8	626.9	285.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

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