

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: P158120

Luminaire Tested: **VTS-E05-LED-E1-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158120  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E05-LED-E1-SL2  
Description: VENTUS LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (105) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

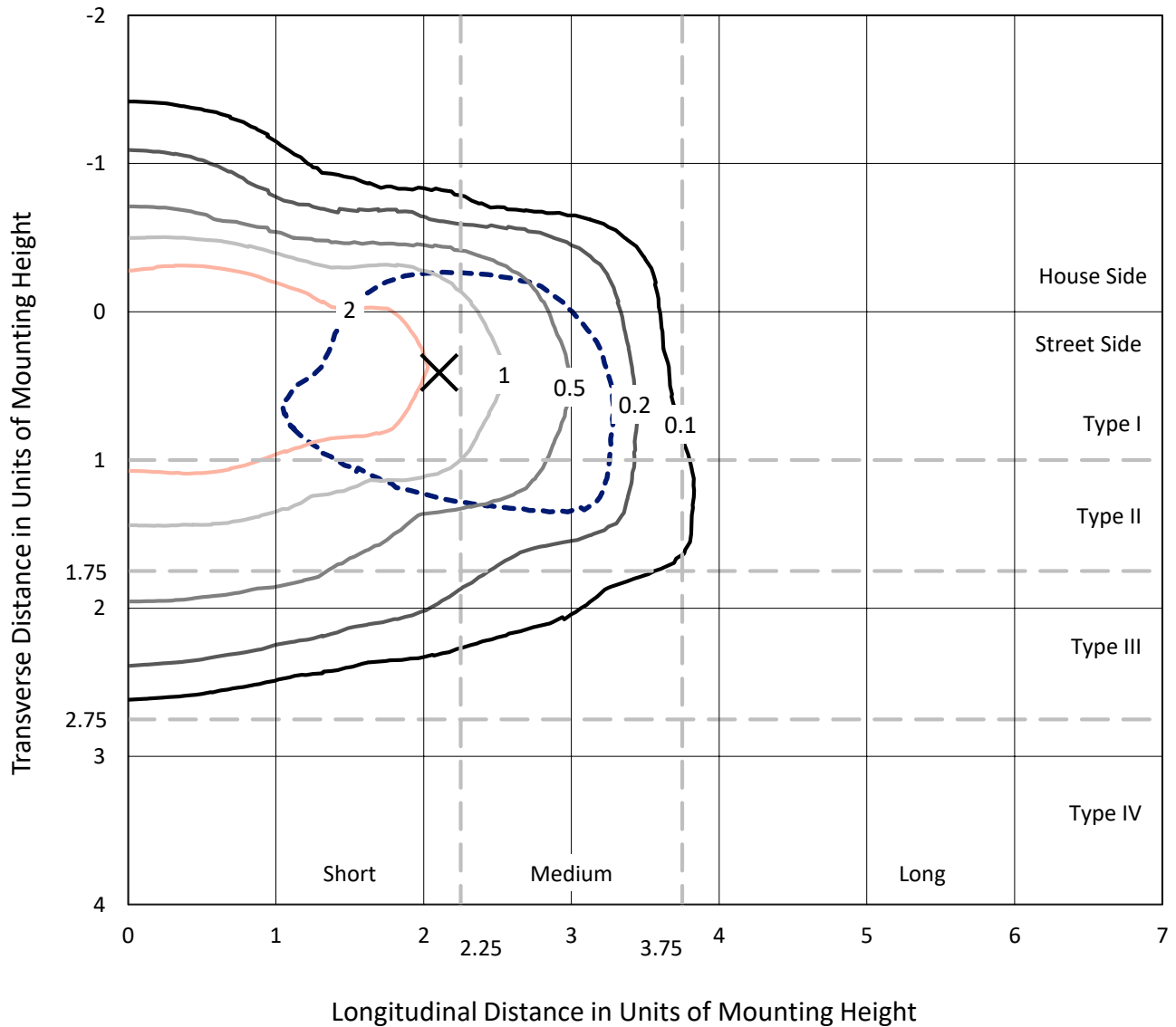
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15043.8 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 127.3  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

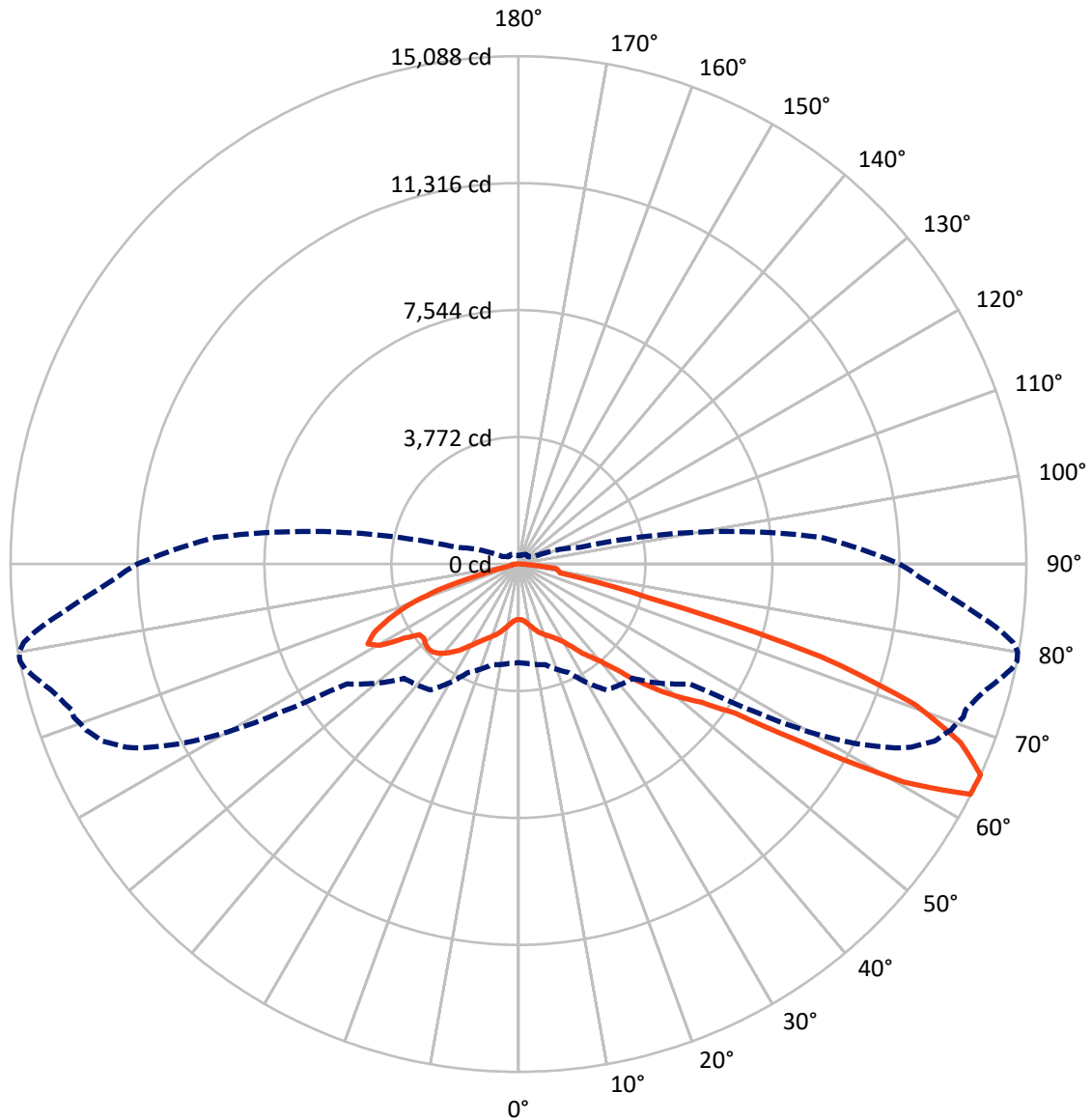
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3456.8	0.0	3456.8
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	11587.0	0.0	11587.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	15043.8	0.0	15043.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.9	1.1
10°-20°	528.9	3.5
20°-30°	911.8	6.1
30°-40°	1493.5	9.9
40°-50°	2501.1	16.6
50°-60°	3383.1	22.5
60°-70°	4166.3	27.7
70°-80°	1612.7	10.7
80°-90°	283.6	1.9
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°	15043.8	100.0
0°-180°	15043.8	100.0



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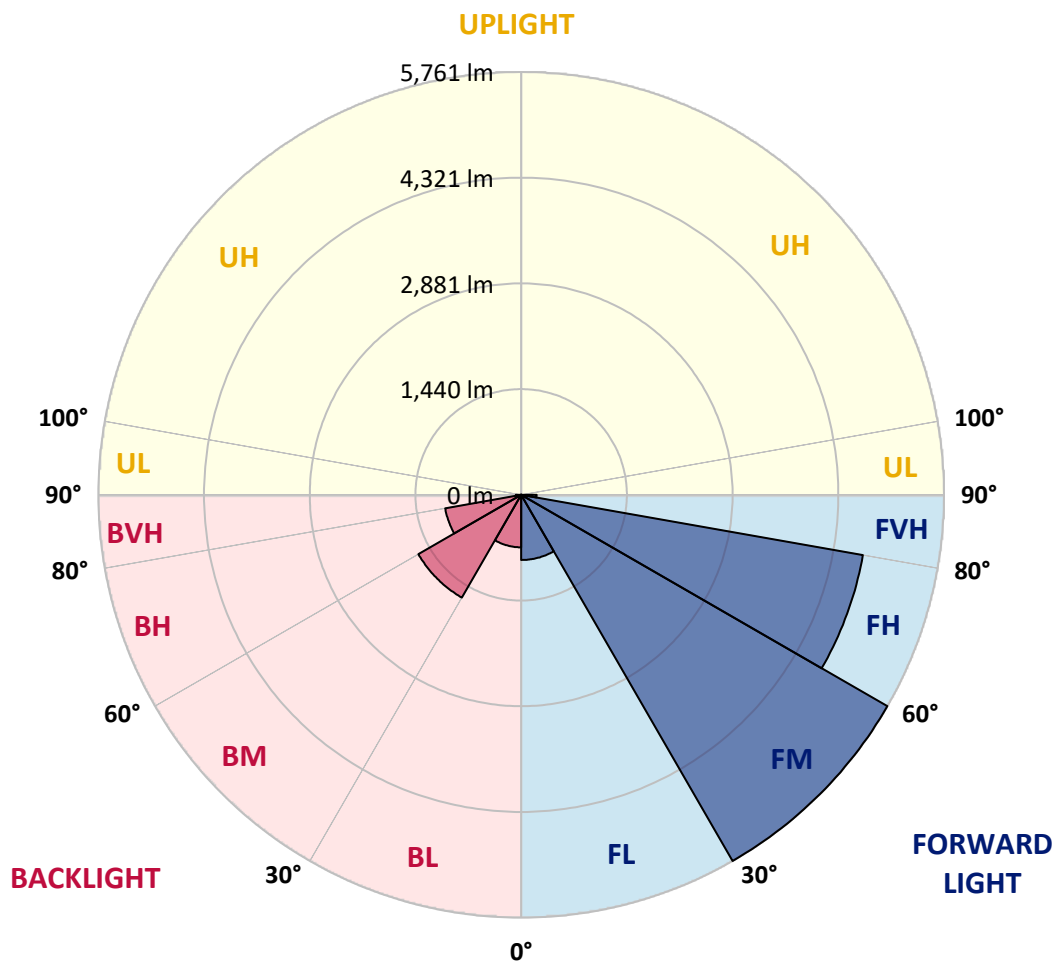
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.1	5.9			
FM (30°-60°)	5761.1	38.3			
FH (60°-80°)	4727.3	31.4			G2/5000
FVH (80°-90°)	210.4	1.4			G2/225
BL (0°-30°)	715.4	4.8	B2/1000		
BM (30°-60°)	1616.6	10.7	B2/2500		
BH (60°-80°)	1051.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	73.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1646	1646	1646	1646	1646	1646	1646	1646	1646	1646	1646
2.5°	1649	1644	1649	1653	1656	1660	1659	1658	1657	1658	1658
5°	1663	1662	1667	1671	1678	1683	1689	1689	1689	1688	1690
7.5°	1708	1707	1712	1716	1722	1732	1740	1744	1743	1743	1743
10°	1782	1778	1778	1778	1786	1793	1811	1813	1817	1815	1816
12.5°	1854	1855	1852	1849	1850	1864	1890	1895	1896	1899	1901
15°	1919	1918	1911	1904	1913	1937	1971	1980	1980	1986	1990
17.5°	1979	1977	1964	1952	1961	2002	2055	2061	2070	2073	2077
20°	2050	2046	2031	1999	1999	2055	2125	2131	2139	2141	2148
22.5°	2149	2139	2107	2049	2033	2098	2184	2187	2193	2201	2207
25°	2261	2263	2211	2110	2075	2143	2241	2246	2257	2263	2270
27.5°	2377	2380	2322	2196	2137	2205	2318	2324	2337	2344	2355
30°	2509	2513	2457	2330	2240	2296	2432	2448	2459	2468	2486
32.5°	2826	2802	2763	2628	2486	2482	2616	2634	2649	2668	2685
35°	3225	3240	3260	3169	3044	2953	2964	2954	2968	2996	3013
37.5°	3541	3574	3661	3720	3715	3697	3529	3529	3538	3523	3521
40°	3789	3810	3988	4217	4410	4505	4372	4353	4363	4286	4289
42.5°	3917	3948	4204	4606	4989	5294	5253	5240	5210	5191	5179
45°	3982	4019	4324	4876	5434	5905	6117	6115	6088	6066	6056
47.5°	3949	3981	4306	4958	5668	6299	6768	6797	6789	6821	6834
50°	3733	3774	4100	4781	5570	6454	7219	7273	7346	7392	7453
52.5°	3538	3572	3866	4494	5248	6328	7491	7602	7702	7796	7869
55°	3334	3368	3626	4196	4923	5956	7615	7777	7933	8092	8238
57.5°	3257	3293	3485	3965	4657	5587	7676	7942	8196	8466	8746
60°	3457	3489	3635	3971	4454	5218	7553	7971	8408	8853	9283
62.5°	3396	3413	3595	4116	4713	4854	7020	7572	8207	8859	9518
65°	2930	2963	3100	3558	4568	4805	6208	6763	7512	8283	9166
67.5°	2102	2056	2162	2563	3544	4797	5294	5705	6292	6883	7607
70°	955	933	1016	1333	2138	3791	4476	4615	4833	5231	5720
72.5°	377	376	430	551	1011	2440	3764	3844	3921	4094	4305
75°	247	247	263	297	498	1178	3184	3257	3375	3424	3514
77.5°	186	187	194	202	275	620	2247	2506	2706	2855	2964
80°	132	138	151	156	179	353	1270	1457	1683	1924	2227
82.5°	99	106	128	134	142	201	573	650	759	984	1415
85°	46	51	88	96	103	116	291	325	369	404	471
87.5°	7	5	15	21	33	34	100	119	129	155	161
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	1646	1646	1646	1646	1646	1646	1646	1646	1646	1646	1646
2.5°	1658	1659	1660	1658	1659	1659	1657	1656	1656	1656	1657
5°	1690	1692	1690	1691	1695	1694	1692	1691	1695	1696	1693
7.5°	1747	1748	1744	1749	1751	1752	1752	1754	1754	1757	1754
10°	1820	1820	1827	1826	1827	1829	1830	1834	1837	1837	1839
12.5°	1904	1905	1912	1913	1917	1918	1924	1920	1930	1930	1933
15°	1991	1998	1999	2009	2011	2012	2020	2020	2027	2028	2030
17.5°	2077	2083	2087	2095	2102	2105	2108	2114	2119	2121	2126
20°	2151	2157	2161	2169	2175	2180	2183	2190	2195	2197	2204
22.5°	2213	2217	2224	2235	2237	2243	2252	2257	2259	2265	2273
25°	2279	2285	2289	2299	2307	2317	2325	2333	2335	2343	2350
27.5°	2367	2373	2374	2394	2402	2416	2425	2437	2443	2450	2464
30°	2497	2511	2517	2540	2544	2560	2576	2580	2589	2590	2613
32.5°	2696	2716	2724	2748	2754	2769	2778	2799	2800	2810	2815
35°	3022	3017	3048	3054	3072	3085	3094	3094	3113	3114	3120
37.5°	3467	3457	3465	3429	3438	3422	3419	3423	3415	3417	3416
40°	4179	4134	4087	3976	3952	3906	3870	3841	3813	3783	3763
42.5°	5072	5007	4937	4759	4676	4587	4500	4450	4350	4289	4256
45°	6008	5932	5834	5686	5568	5473	5314	5239	5084	5007	4903
47.5°	6775	6776	6697	6547	6421	6358	6259	6114	5938	5839	5654
50°	7446	7445	7440	7350	7262	7193	7106	6975	6831	6719	6507
52.5°	7942	8008	8036	8035	8024	7992	7926	7813	7667	7604	7435
55°	8352	8496	8571	8735	8750	8803	8745	8746	8660	8666	8612
57.5°	8973	9236	9387	9750	9932	10152	10113	10297	10364	10449	10562
60°	9678	10169	10527	11249	11543	11899	12095	12304	12456	12612	12727
62.5°	10182	10827	11415	12444	12826	13201	13448	13701	13872	13984	14067
65°	9976	10689	11384	12463	12879	13151	13445	13591	13762	13855	13974
67.5°	8477	9192	9937	11210	11645	12021	12250	12439	12577	12695	12832
70°	6304	7086	7856	9252	9801	10344	10614	10848	10992	11111	11262
72.5°	4537	5027	5508	7071	7620	8322	8602	8862	9049	9043	9203
75°	3612	3811	4025	4832	5226	5818	5975	6121	6033	5864	5854
77.5°	3007	3089	3161	3414	3472	3613	3535	3454	3193	2973	2857
80°	2441	2603	2709	2889	2963	3005	3016	2988	2892	2759	2547
82.5°	1815	2123	2333	2687	2817	2844	2896	2864	2801	2693	2541
85°	532	602	690	936	1097	1234	1374	1443	1486	1426	1269
87.5°	187	211	236	325	346	418	410	484	487	508	486
90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	1646	1646	1646	1646	1646	1646	1646	1646	1646	1646	1646
2.5°	1656	1656	1656	1657	1657	1657	1655	1654	1655	1657	1657
5°	1695	1696	1698	1694	1695	1698	1696	1695	1696	1698	1696
7.5°	1758	1759	1757	1761	1761	1763	1766	1763	1764	1765	1766
10°	1840	1841	1843	1846	1847	1849	1851	1854	1854	1852	1857
12.5°	1938	1937	1939	1943	1945	1948	1954	1954	1958	1957	1962
15°	2034	2039	2040	2047	2050	2055	2062	2066	2066	2072	2074
17.5°	2130	2134	2138	2144	2148	2151	2159	2164	2163	2174	2174
20°	2204	2212	2217	2221	2228	2233	2239	2245	2249	2256	2258
22.5°	2276	2281	2288	2293	2301	2307	2314	2319	2326	2335	2338
25°	2356	2364	2372	2379	2385	2392	2404	2415	2425	2433	2436
27.5°	2467	2476	2488	2493	2502	2508	2526	2540	2545	2559	2563
30°	2617	2627	2639	2645	2661	2669	2688	2703	2708	2725	2728
32.5°	2834	2840	2864	2863	2885	2908	2919	2931	2953	2962	2965
35°	3135	3149	3166	3165	3193	3206	3228	3241	3257	3256	3273
37.5°	3426	3431	3437	3450	3470	3488	3496	3509	3521	3539	3561
40°	3743	3755	3756	3763	3773	3796	3811	3825	3866	3892	3905
42.5°	4218	4215	4195	4208	4214	4249	4260	4303	4349	4404	4419
45°	4829	4789	4777	4772	4804	4822	4867	4947	4995	5047	5072
47.5°	5581	5456	5397	5384	5417	5494	5509	5588	5651	5689	5714
50°	6334	6236	6112	6070	6061	6132	6149	6215	6279	6290	6277
52.5°	7280	7120	6915	6841	6782	6787	6801	6829	6870	6853	6818
55°	8490	8308	8207	8067	7978	7962	7901	7817	7814	7825	7720
57.5°	10505	10429	10472	10457	10369	10422	10147	10069	10007	9899	9802
60°	12829	12907	12996	13201	13192	13398	13207	13159	13101	12768	12605
62.5°	14212	14243	14374	14565	14753	14950	15039	15070	14949	14677	14337
65°	13971	14108	14235	14400	14593	14790	14978	15088	15060	14880	14506
67.5°	12876	13020	13206	13379	13587	13758	13964	14166	14172	14082	13822
70°	11278	11445	11637	11734	11959	12114	12285	12485	12550	12561	12258
72.5°	9169	9239	9333	9282	9327	9426	9380	9396	9149	9195	8821
75°	5584	5520	5236	4977	4661	4418	4476	4012	3555	3532	3202
77.5°	2832	2730	2554	2371	2103	1796	1540	1264	1031	898	771
80°	2412	2340	2243	2110	1915	1688	1421	1211	1016	813	651
82.5°	2308	2088	1947	1836	1625	1415	1269	1125	987	862	683
85°	1145	1013	857	760	585	458	429	353	329	254	214
87.5°	385	315	235	198	158	129	127	113	112	102	94
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	1646	1646	1646	1646	1646	1646	1646	1646	1646	1646	1646
2.5°	1656	1658	1658	1656	1657	1655	1656	1657	1654	1653	1650
5°	1697	1696	1696	1697	1700	1701	1696	1698	1699	1694	1683
7.5°	1765	1765	1768	1767	1773	1771	1770	1770	1770	1760	1742
10°	1857	1857	1860	1864	1865	1863	1863	1864	1869	1849	1821
12.5°	1960	1965	1964	1964	1976	1973	1969	1973	1978	1950	1910
15°	2075	2078	2080	2087	2085	2092	2094	2092	2097	2061	1994
17.5°	2179	2185	2187	2195	2195	2196	2204	2201	2202	2161	2065
20°	2265	2271	2274	2283	2285	2289	2292	2294	2299	2250	2123
22.5°	2351	2356	2361	2367	2375	2380	2384	2386	2395	2338	2178
25°	2447	2458	2463	2473	2481	2489	2495	2496	2511	2440	2223
27.5°	2575	2590	2598	2614	2622	2630	2628	2640	2661	2557	2258
30°	2743	2762	2767	2783	2796	2804	2813	2823	2837	2687	2275
32.5°	2977	3006	3013	3022	3041	3055	3061	3077	3081	2810	2270
35°	3298	3285	3319	3327	3354	3365	3372	3393	3377	2944	2237
37.5°	3588	3584	3617	3635	3670	3662	3679	3693	3636	3039	2176
40°	3942	3937	3983	3989	4043	4031	4038	4049	3922	3105	2065
42.5°	4436	4438	4487	4493	4500	4522	4486	4488	4226	3123	1882
45°	5087	5122	5092	5093	5091	5049	5004	4951	4542	3061	1646
47.5°	5718	5694	5656	5621	5592	5526	5460	5370	4815	2914	1383
50°	6258	6204	6170	6073	6004	5918	5826	5723	5039	2702	1137
52.5°	6760	6704	6577	6476	6377	6263	6156	6035	5237	2460	949
55°	7594	7545	7418	7233	7111	6954	6813	6649	5638	2264	825
57.5°	9535	9493	9226	9109	8948	8554	8496	8240	6713	2241	752
60°	12268	12088	11866	11546	11169	11039	10749	10408	8443	2304	693
62.5°	13946	13536	13210	12841	12494	12196	11879	11542	9328	2221	620
65°	14072	13590	13159	12726	12336	11965	11657	11320	9040	1909	525
67.5°	13378	12870	12400	11909	11515	11180	10788	10464	8228	1486	437
70°	11947	11501	11096	10567	10240	9832	9583	9178	7172	1013	361
72.5°	8605	8269	8137	7768	7340	7100	6985	6592	5300	629	295
75°	2907	2990	2800	2509	2651	2432	2521	2334	2242	361	248
77.5°	645	606	560	520	517	486	515	487	521	230	219
80°	509	402	342	312	296	287	280	272	248	196	202
82.5°	550	415	304	243	208	195	192	184	182	190	204
85°	176	147	125	118	109	104	102	99	120	207	196
87.5°	92	81	72	69	60	56	55	56	84	207	142
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	1646	1646	1646	1646	1646	1646	1646
2.5°	1647	1646	1644	1643	1642	1637	1641
5°	1678	1668	1659	1648	1642	1637	1637
7.5°	1725	1697	1674	1649	1632	1619	1617
10°	1784	1730	1677	1632	1600	1576	1573
12.5°	1840	1758	1674	1600	1550	1516	1514
15°	1892	1773	1651	1542	1467	1422	1417
17.5°	1933	1764	1599	1461	1359	1306	1303
20°	1942	1728	1525	1361	1253	1197	1184
22.5°	1934	1663	1433	1251	1127	1071	1064
25°	1910	1584	1319	1123	1008	951	937
27.5°	1867	1491	1196	999	885	830	816
30°	1803	1379	1065	883	765	721	707
32.5°	1714	1243	936	764	666	631	625
35°	1591	1087	801	666	594	573	570
37.5°	1434	931	688	596	544	531	529
40°	1229	771	608	546	508	497	495
42.5°	1018	651	549	506	475	465	462
45°	833	570	505	473	444	433	432
47.5°	695	523	469	443	414	401	402
50°	594	480	439	417	384	372	373
52.5°	525	437	411	386	358	346	346
55°	471	402	384	357	335	324	323
57.5°	427	374	358	336	314	301	301
60°	400	354	341	321	295	281	280
62.5°	384	348	337	309	280	266	263
65°	372	362	348	302	268	253	250
67.5°	373	395	375	306	264	242	238
70°	379	421	394	315	281	237	228
72.5°	349	381	355	300	274	228	217
75°	291	278	255	244	246	207	203
77.5°	236	207	185	194	207	177	173
80°	205	168	157	172	188	151	141
82.5°	192	142	135	179	197	130	114
85°	169	116	106	211	197	98	91
87.5°	113	69	66	155	135	68	55
90°	0	0	0	0	0	0	0

(END OF REPORT)