

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: P162247

Luminaire Tested: **OVF-E05-LED-E-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P162247
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33696)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-E05-LED-E-U-T4
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14693 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

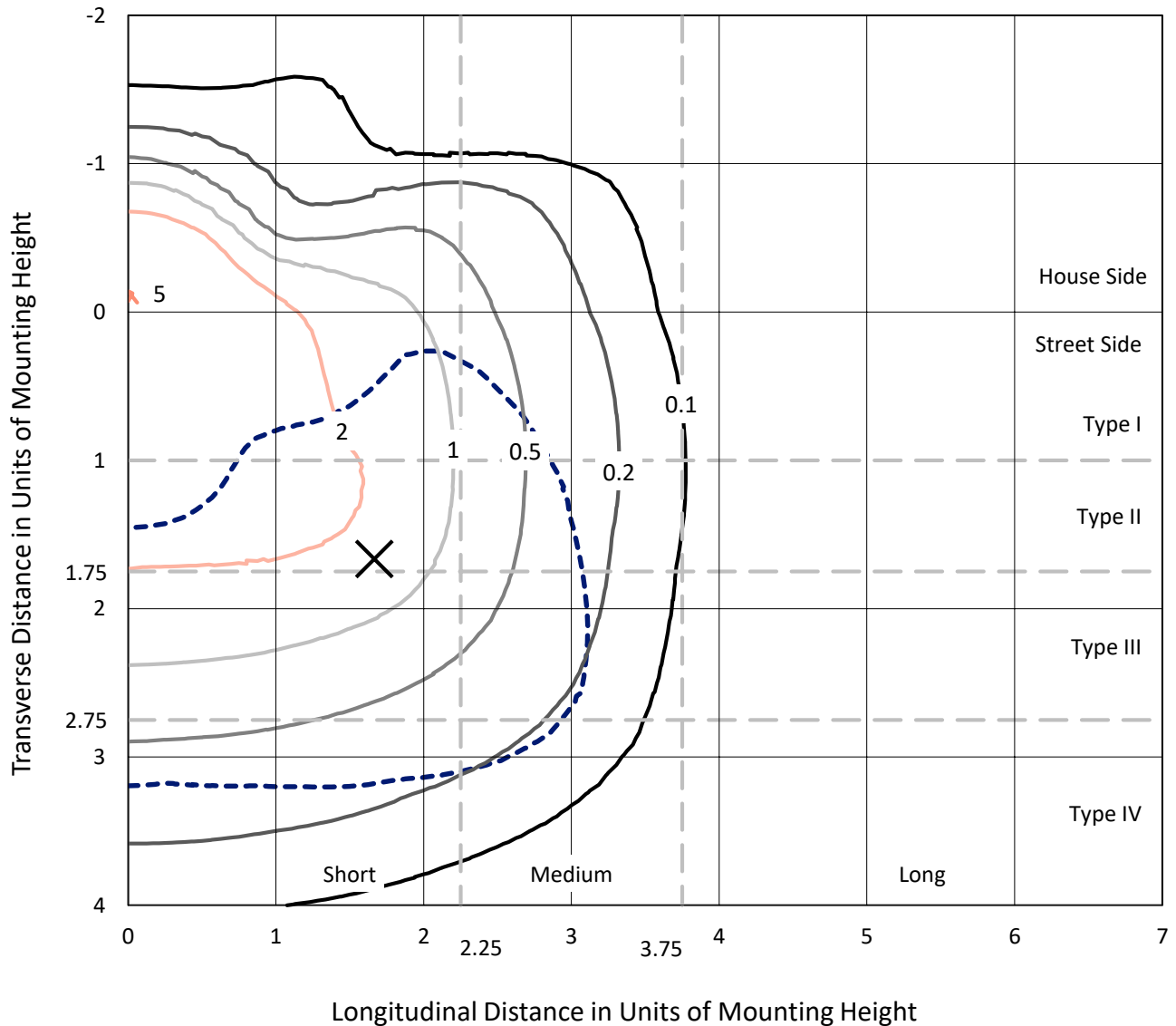
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

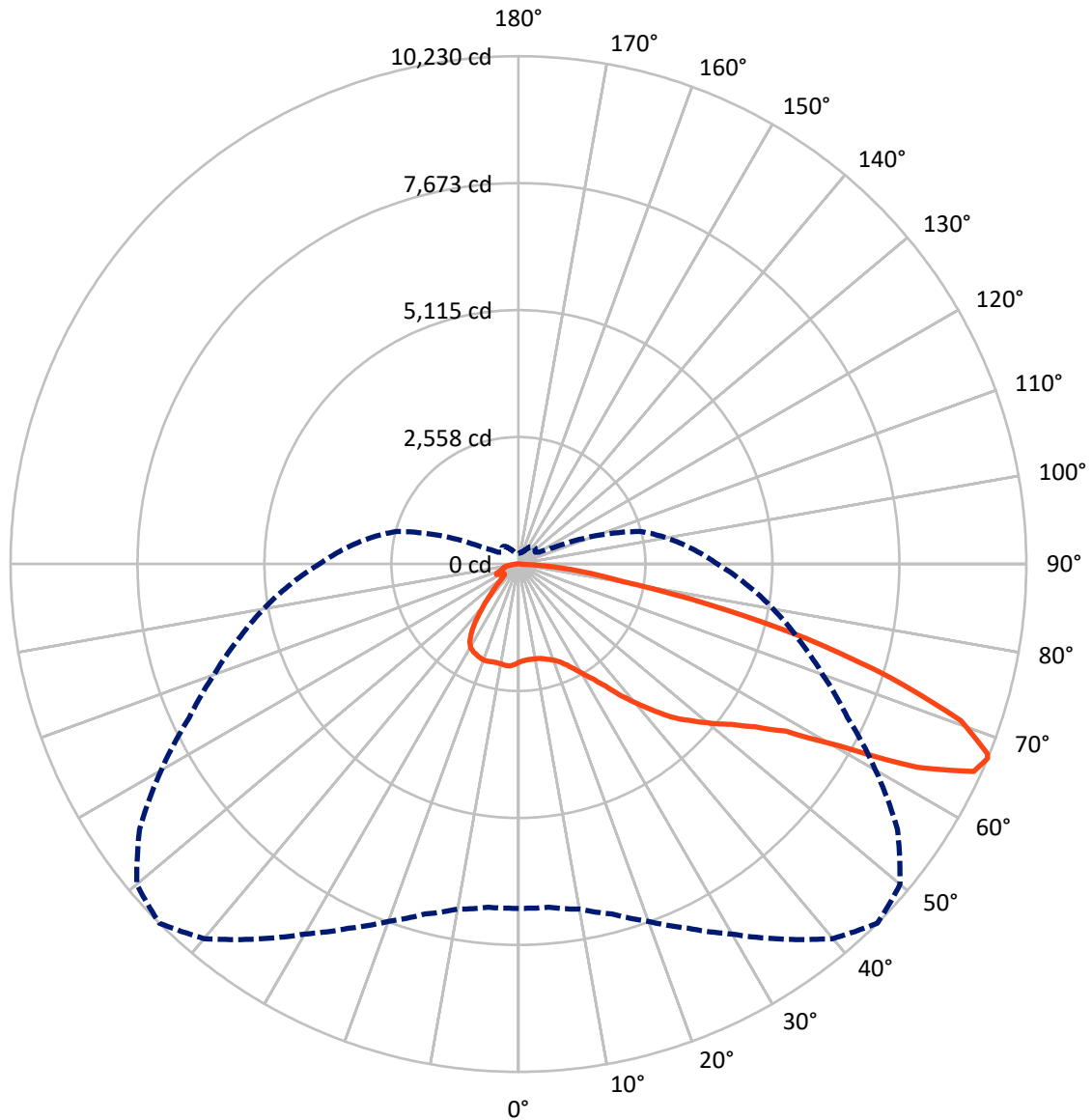


Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2977.2	0.0	2977.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11715.9	0.0	11715.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	14693.0	0.0	14693.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.3
10°-20°	572.4	3.9
20°-30°	972.9	6.6
30°-40°	1462.2	10.0
40°-50°	1901.3	12.9
50°-60°	2610.4	17.8
60°-70°	4118.0	28.0
70°-80°	2488.2	16.9
80°-90°	376.9	2.6
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°	14693.0	100.0
0°-180°	14693.0	100.0



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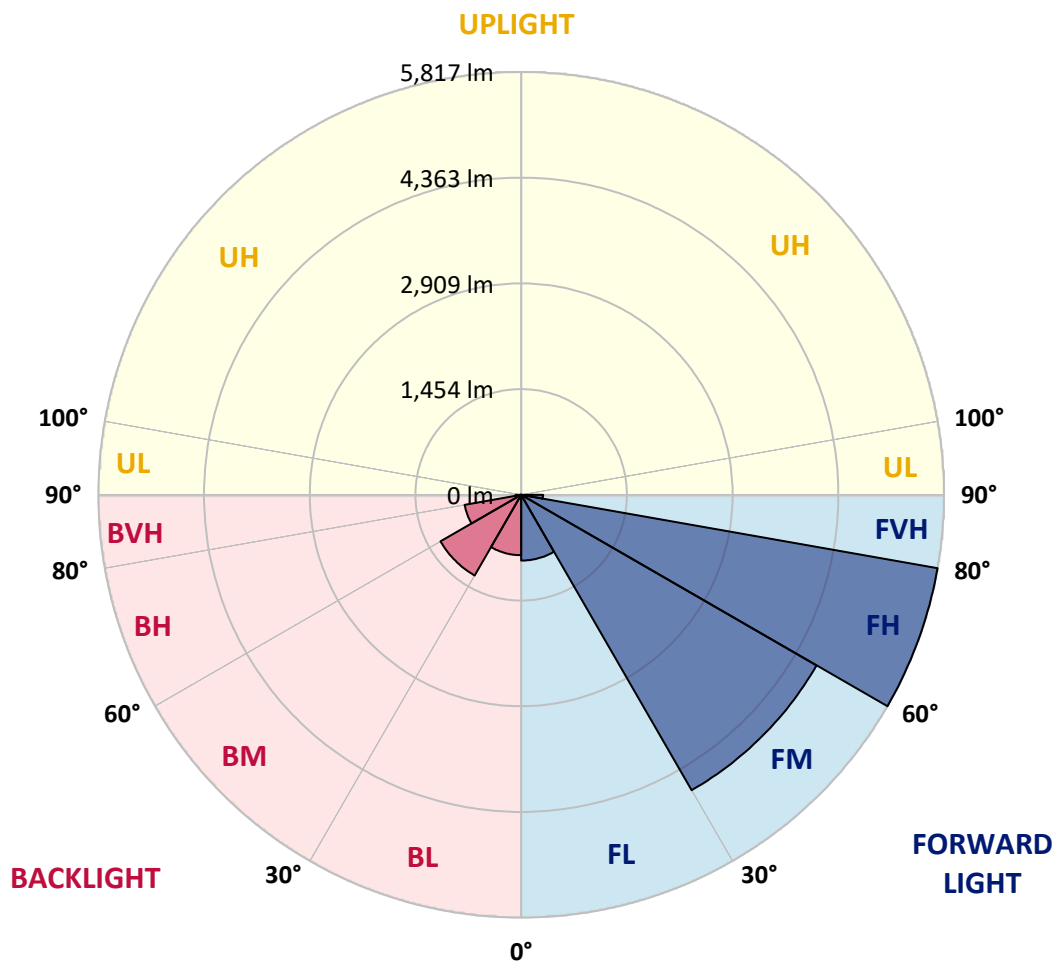
CATALOG NUMBER: OVF-E05-LED-E-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	904.8	6.2			
FM	(30°-60°)	4692.8	31.9			
FH	(60°-80°)	5817.3	39.6			G3/7500
FVH	(80°-90°)	301.0	2.0			G3/500
BL	(0°-30°)	831.2	5.7	B2/1000		
BM	(30°-60°)	1281.1	8.7	B2/2500		
BH	(60°-80°)	788.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	75.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978
2.5°	1934	1938	1935	1935	1936	1937	1939	1943	1944	1950	1951
5°	1895	1896	1896	1897	1903	1908	1913	1920	1926	1937	1944
7.5°	1881	1885	1884	1886	1892	1897	1903	1913	1928	1937	1947
10°	1904	1907	1904	1905	1906	1911	1913	1920	1932	1940	1949
12.5°	1957	1957	1954	1952	1949	1950	1946	1945	1951	1952	1953
15°	2027	2035	2025	2017	2013	2009	1996	1991	1990	1981	1972
17.5°	2098	2100	2094	2085	2079	2070	2059	2049	2037	2023	2005
20°	2177	2178	2170	2157	2150	2139	2125	2108	2093	2071	2051
22.5°	2287	2286	2270	2259	2249	2236	2216	2193	2169	2143	2115
25°	2413	2413	2402	2384	2379	2360	2338	2311	2286	2249	2215
27.5°	2557	2558	2538	2528	2517	2497	2482	2461	2427	2390	2355
30°	2728	2723	2707	2686	2682	2666	2645	2630	2588	2562	2523
32.5°	2890	2898	2894	2870	2874	2858	2840	2829	2785	2760	2724
35°	3132	3139	3145	3136	3141	3132	3117	3088	3052	3019	2969
37.5°	3320	3327	3331	3353	3385	3416	3430	3415	3417	3367	3300
40°	3474	3491	3515	3557	3621	3680	3712	3737	3750	3703	3616
42.5°	3628	3646	3679	3746	3834	3919	3986	4063	4077	4065	3991
45°	3789	3810	3851	3927	4030	4141	4249	4358	4413	4422	4332
47.5°	3983	4013	4051	4137	4237	4362	4497	4637	4723	4723	4619
50°	4225	4259	4291	4377	4477	4606	4762	4918	5035	5042	4916
52.5°	4564	4569	4588	4667	4754	4898	5046	5227	5362	5368	5223
55°	4976	4976	4998	5064	5145	5264	5417	5618	5760	5791	5605
57.5°	5518	5538	5549	5626	5681	5807	5935	6154	6335	6355	6166
60°	6400	6362	6423	6491	6620	6712	6930	7150	7381	7436	7233
62.5°	7269	7310	7385	7508	7729	7935	8247	8581	8940	9014	8859
65°	7323	7348	7452	7664	7966	8333	8763	9266	9801	10078	9818
67°	6935	6942	7060	7301	7663	8098	8607	9221	9849	10230	10036
67.5°	6812	6825	6941	7187	7553	7998	8517	9148	9791	10189	10014
70°	6090	6090	6215	6463	6806	7240	7783	8420	9119	9454	9305
72.5°	5184	5151	5292	5480	5760	6139	6576	7079	7605	7849	7790
75°	3768	3830	3903	4042	4285	4584	4840	5289	5702	5972	5901
77.5°	2056	2080	2282	2365	2578	2800	3081	3396	3721	3891	3822
80°	1222	1269	1389	1488	1603	1772	1976	2045	2109	2105	1980
82.5°	772	829	959	1044	1104	1202	1313	1400	1419	1325	1180
85°	125	207	541	636	674	727	809	846	790	690	715
87.5°	49	59	165	209	221	116	201	236	120	61	138
90°	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°	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978
2.5°	1957	1962	1967	1973	1975	1980	1989	1988	1995	1998	2003
5°	1953	1964	1972	1983	1987	1998	2010	2014	2023	2030	2036
7.5°	1961	1973	1983	1996	2005	2014	2023	2034	2042	2047	2051
10°	1964	1977	1989	2000	2010	2017	2027	2036	2044	2047	2048
12.5°	1965	1974	1986	1998	2007	2016	2023	2033	2039	2040	2038
15°	1973	1974	1982	1996	2005	2014	2019	2024	2028	2025	2022
17.5°	1997	1990	1990	1997	2002	2006	2007	2006	2002	1996	1991
20°	2036	2022	2011	2007	1999	1989	1976	1964	1949	1942	1941
22.5°	2097	2076	2056	2036	2010	1981	1951	1925	1904	1893	1894
25°	2201	2170	2147	2112	2070	2029	1990	1955	1930	1910	1914
27.5°	2341	2306	2286	2246	2198	2146	2100	2052	2016	1991	1996
30°	2505	2495	2462	2422	2377	2318	2249	2177	2112	2071	2063
32.5°	2703	2692	2656	2622	2564	2499	2409	2295	2193	2115	2081
35°	2947	2920	2876	2843	2778	2694	2578	2424	2269	2152	2067
37.5°	3251	3184	3111	3025	2929	2827	2693	2513	2321	2155	2004
40°	3541	3433	3312	3176	3059	2936	2797	2591	2356	2134	1909
42.5°	3864	3696	3532	3345	3191	3045	2886	2646	2363	2077	1786
45°	4175	3959	3739	3508	3312	3150	2969	2693	2361	2017	1664
47.5°	4452	4194	3922	3662	3434	3256	3058	2757	2388	2000	1583
50°	4711	4413	4094	3805	3557	3375	3171	2858	2471	2039	1571
52.5°	4978	4654	4289	3978	3719	3508	3302	2987	2587	2119	1598
55°	5326	4954	4565	4220	3923	3696	3458	3143	2712	2212	1649
57.5°	5844	5409	4967	4596	4253	3970	3709	3348	2919	2352	1761
60°	6774	6292	5780	5295	4900	4569	4237	3789	3301	2670	2018
62.5°	8293	7626	6918	6280	5737	5289	4821	4283	3714	3056	2407
65°	9206	8286	7385	6645	6003	5429	4863	4285	3734	3159	2582
67°	9319	8310	7313	6525	5837	5212	4598	4007	3514	3032	2534
67.5°	9285	8262	7245	6449	5754	5149	4545	3940	3460	2978	2498
70°	8615	7614	6608	5834	5168	4549	3978	3372	3001	2656	2241
72.5°	7150	6369	5526	4881	4306	3770	3268	2761	2463	2219	1927
75°	5302	4586	3873	3485	3039	2610	2222	1847	1732	1674	1502
77.5°	3274	2631	2094	1743	1386	1086	864	703	733	853	908
80°	1630	1204	932	741	599	484	355	260	311	369	418
82.5°	981	775	613	519	422	326	231	176	195	262	288
85°	609	488	390	326	270	200	131	130	138	174	199
87.5°	179	121	96	100	111	92	69	59	73	100	112
90°	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°	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978
2.5°	2004	2011	2014	2015	2016	2022	2022	2028	2030	2030	2032
5°	2042	2049	2052	2053	2055	2058	2057	2061	2063	2062	2062
7.5°	2056	2058	2058	2061	2064	2061	2059	2061	2060	2061	2061
10°	2051	2049	2049	2047	2050	2044	2044	2046	2045	2047	2050
12.5°	2039	2038	2035	2034	2038	2034	2035	2038	2040	2044	2049
15°	2022	2019	2019	2023	2033	2036	2040	2045	2046	2048	2050
17.5°	1993	1998	2010	2024	2043	2050	2052	2049	2039	2031	2023
20°	1953	1975	2006	2036	2059	2058	2045	2026	2002	1985	1974
22.5°	1919	1962	2010	2046	2061	2042	2012	1983	1955	1930	1908
25°	1943	1984	2025	2047	2046	2013	1973	1941	1903	1868	1831
27.5°	2021	2046	2058	2051	2030	1986	1942	1897	1848	1806	1763
30°	2074	2074	2062	2034	1997	1948	1894	1836	1778	1729	1680
32.5°	2057	2018	1983	1945	1903	1850	1788	1725	1659	1602	1560
35°	1983	1899	1826	1772	1728	1665	1593	1521	1467	1428	1404
37.5°	1851	1717	1611	1545	1477	1412	1329	1296	1248	1224	1215
40°	1691	1495	1362	1277	1205	1124	1068	1047	1029	1024	1020
42.5°	1507	1262	1104	1016	929	870	845	832	829	829	834
45°	1316	1025	843	772	700	669	663	657	658	655	657
47.5°	1168	823	636	571	534	524	517	515	515	510	504
50°	1091	688	499	448	427	420	420	416	408	403	390
52.5°	1071	618	432	388	370	364	358	352	340	329	314
55°	1087	596	411	370	350	343	338	328	311	295	278
57.5°	1154	610	419	375	357	352	347	332	311	288	269
60°	1337	676	453	402	387	388	381	362	332	299	271
62.5°	1573	768	497	440	438	448	448	415	366	316	278
65°	1708	797	503	445	462	491	489	445	378	316	275
67°	1674	766	478	416	436	469	465	423	360	303	267
67.5°	1647	756	472	409	429	456	456	414	352	299	264
70°	1450	668	442	382	382	389	384	354	312	275	252
72.5°	1209	584	418	363	344	340	333	312	285	259	239
75°	937	517	399	343	318	309	302	286	265	243	226
77.5°	656	443	374	326	299	292	281	263	246	227	211
80°	407	366	326	294	266	256	242	226	212	201	189
82.5°	290	269	243	226	197	167	179	180	171	164	161
85°	194	175	162	147	130	117	120	129	130	127	127
87.5°	106	90	87	90	78	74	75	83	84	84	85
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1978	1978	1978	1978
2.5°	2033	2036	2035	2037
5°	2064	2066	2065	2066
7.5°	2059	2063	2065	2062
10°	2051	2057	2061	2061
12.5°	2053	2063	2069	2069
15°	2051	2059	2061	2061
17.5°	2020	2020	2021	2017
20°	1966	1960	1958	1951
22.5°	1889	1875	1866	1861
25°	1801	1779	1765	1757
27.5°	1728	1709	1695	1687
30°	1647	1625	1617	1611
32.5°	1530	1509	1503	1498
35°	1378	1371	1355	1344
37.5°	1202	1193	1187	1183
40°	1018	1019	1014	1005
42.5°	834	844	834	832
45°	655	666	666	669
47.5°	505	503	507	508
50°	382	376	374	371
52.5°	303	296	292	287
55°	267	259	255	254
57.5°	255	245	239	238
60°	252	238	230	228
62.5°	252	235	226	223
65°	249	232	224	221
67°	245	230	222	220
67.5°	243	229	222	219
70°	238	226	218	215
72.5°	227	217	209	207
75°	215	206	201	199
77.5°	201	193	187	182
80°	180	171	162	160
82.5°	153	143	136	135
85°	123	115	107	107
87.5°	86	81	76	71
90°	0	0	0	0

(END OF REPORT)