

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: P158890

Luminaire Tested: **VST-E05-LED-E-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158890
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-E05-LED-E-U-SLL
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13436.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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



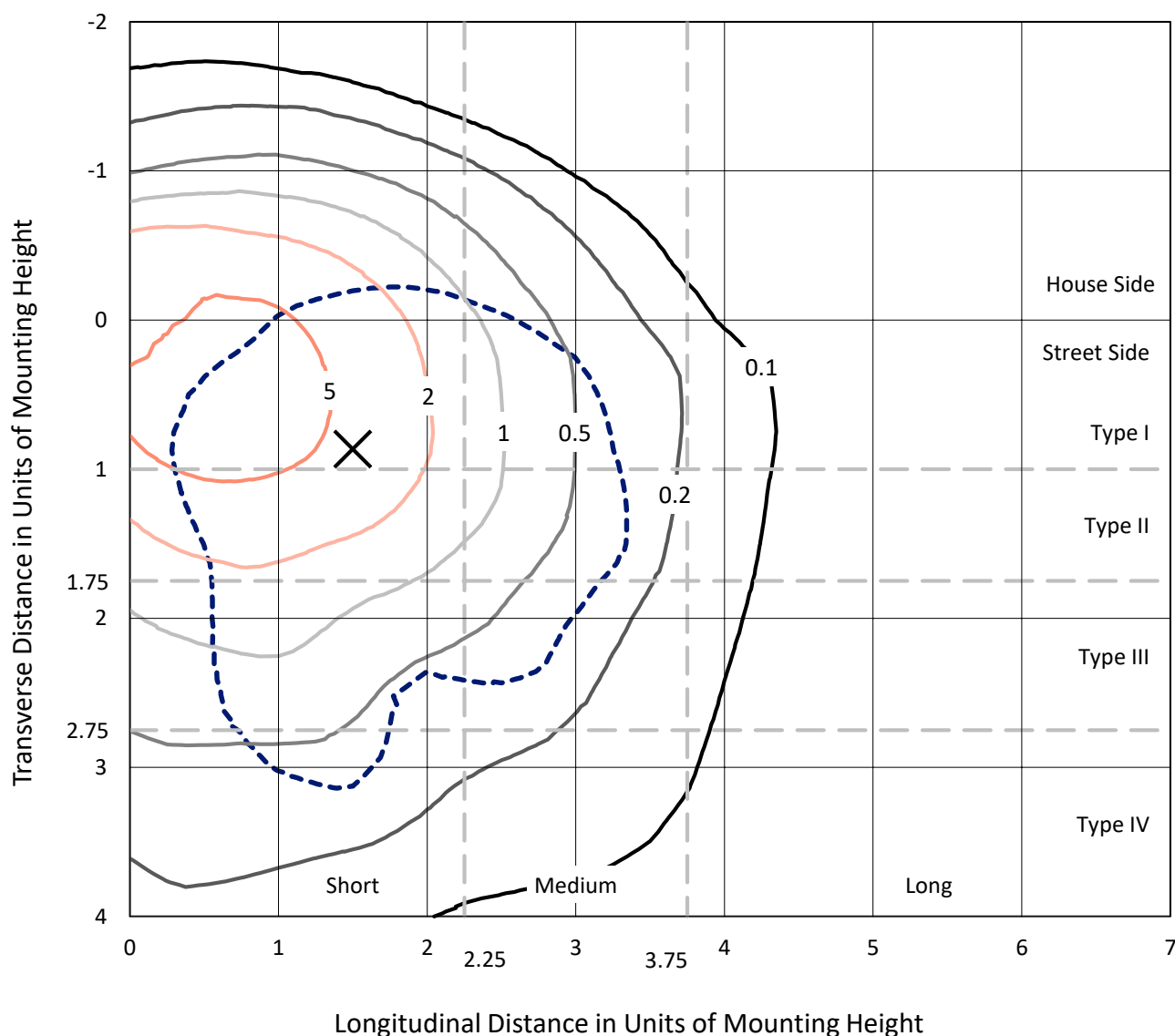
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

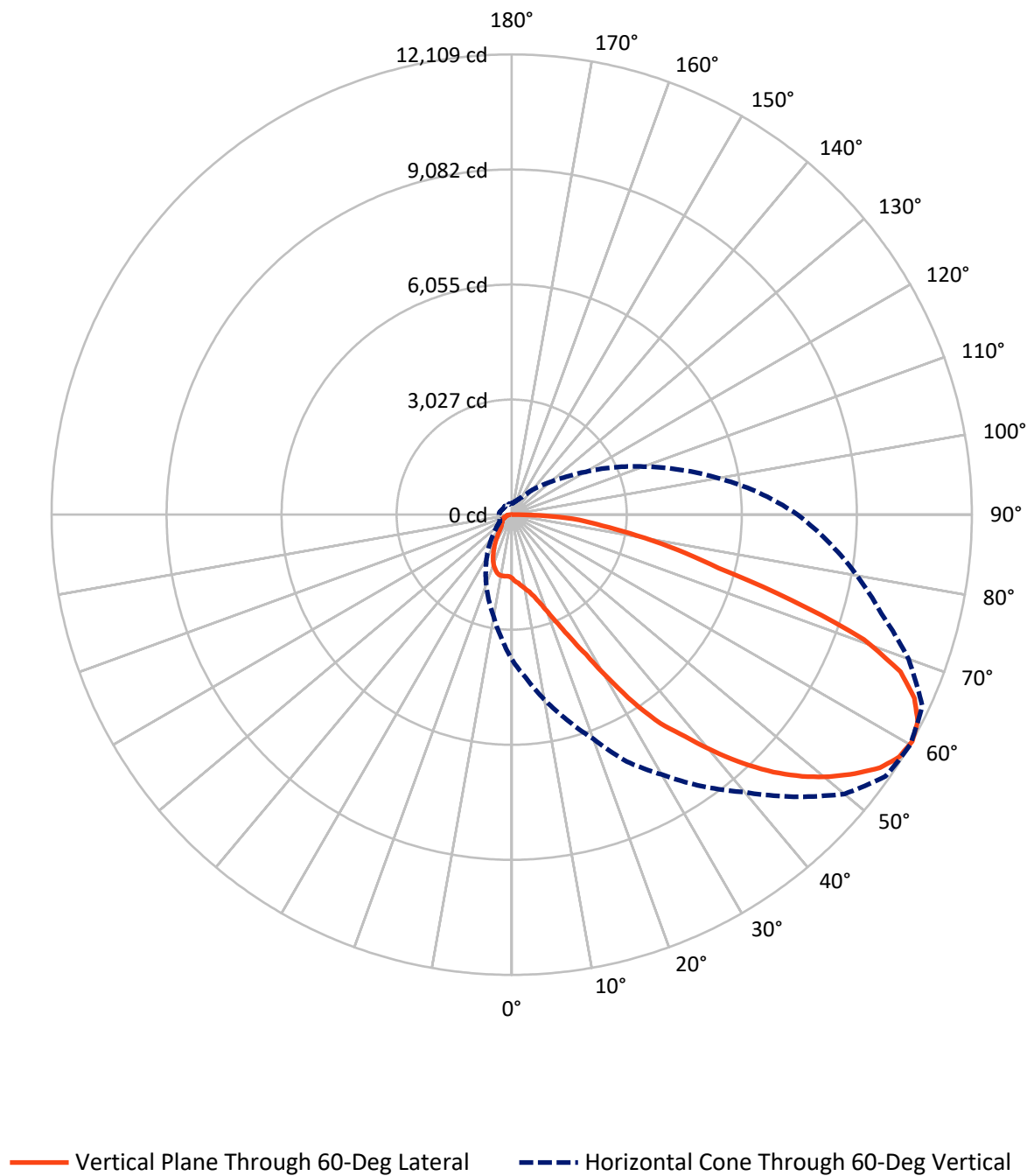


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3025.5	0.0	3025.5
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10410.9	0.0	10410.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	13436.4	0.0	13436.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.2
10°-20°	532.3	4.0
20°-30°	1010.1	7.5
30°-40°	1590.7	11.8
40°-50°	2220.2	16.5
50°-60°	2745.8	20.4
60°-70°	2846.2	21.2
70°-80°	1790.9	13.3
80°-90°	535.4	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°	13436.4	100.0
0°-180°	13436.4	100.0

Coefficient of Utilization



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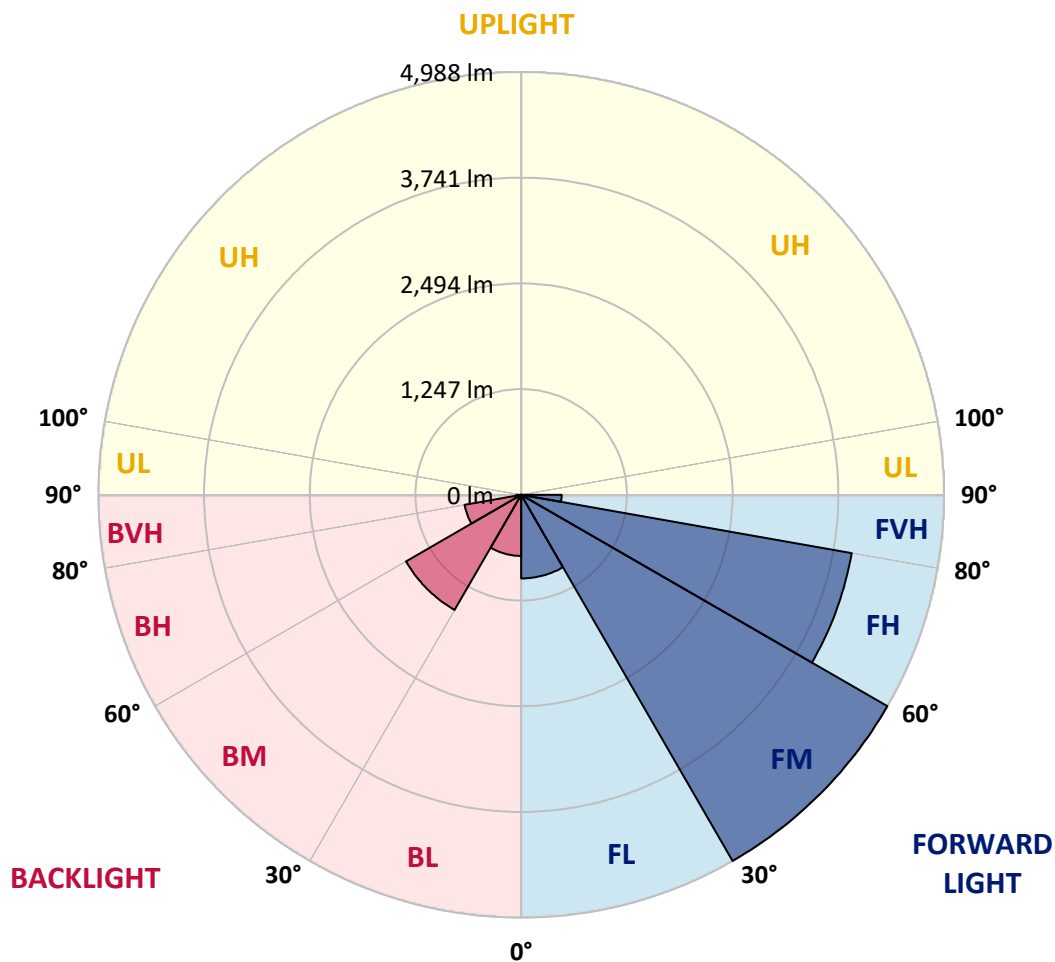
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	986.4	7.3			
FM	(30°-60°)	4987.8	37.1			
FH	(60°-80°)	3959.6	29.5			G2/5000
FVH	(80°-90°)	477.1	3.6			G3/500
BL	(0°-30°)	720.8	5.4	B2/1000		
BM	(30°-60°)	1568.9	11.7	B2/2500		
BH	(60°-80°)	677.6	5.0	B2/1000		G2/1000
BVH	(80°-90°)	58.2	0.4			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°	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671
2.5°	1770	1768	1768	1768	1767	1765	1768	1767	1762	1759	1762
5°	1793	1794	1797	1798	1798	1801	1809	1810	1809	1811	1816
7.5°	1815	1820	1823	1828	1834	1839	1853	1867	1876	1883	1885
10°	1851	1859	1868	1881	1895	1920	1932	1946	1955	1969	1972
12.5°	1943	1953	1959	1979	1997	2021	2038	2042	2063	2075	2089
15°	2098	2113	2134	2146	2166	2187	2202	2222	2225	2241	2252
17.5°	2288	2309	2352	2381	2407	2428	2458	2481	2486	2504	2481
20°	2554	2605	2612	2670	2693	2735	2795	2806	2835	2806	2789
22.5°	2914	2994	3016	3072	3100	3164	3182	3241	3261	3239	3193
25°	3328	3452	3516	3602	3616	3747	3761	3830	3793	3740	3741
27.5°	3633	3844	4009	4156	4259	4407	4522	4554	4519	4450	4426
30°	3807	4046	4283	4486	4726	4952	5187	5304	5324	5360	5215
32.5°	3919	4226	4508	4759	5005	5296	5611	5912	6165	6356	6266
35°	4013	4392	4753	5057	5348	5665	5983	6338	6757	7002	7053
37.5°	4051	4514	4956	5346	5755	6112	6428	6744	7184	7621	7756
40°	4044	4574	5077	5567	6068	6514	6884	7258	7773	8284	8504
42.5°	3997	4583	5154	5714	6285	6878	7351	7782	8276	8931	9242
45°	3938	4552	5170	5789	6446	7132	7730	8263	8842	9489	9865
47.5°	3858	4503	5150	5815	6518	7295	7998	8639	9276	10021	10498
50°	3771	4433	5109	5796	6536	7384	8151	8881	9625	10429	11032
52.5°	3710	4358	5072	5757	6518	7411	8207	9011	9839	10670	11390
55°	3635	4258	4973	5666	6452	7396	8201	9056	9898	10763	11585
57.5°	3640	4212	4889	5557	6317	7257	8088	9011	9805	10703	11592
60°	3798	4311	4933	5579	6277	7169	7896	8721	9532	10496	11430
62.5°	4124	4594	5159	5799	6502	7345	7809	8239	8959	10115	11154
65°	4513	4937	5427	6036	6824	7631	7760	7847	8211	9374	10636
67.5°	4902	5281	5666	6171	7007	7713	7560	7353	7549	8513	9618
70°	5042	5545	5798	6145	6868	7522	7237	6716	6784	7660	8468
72.5°	4832	5549	5633	5762	6249	6864	6563	5893	5879	6548	7201
75°	4053	5062	5061	5013	5123	5473	5317	4913	5084	5611	5826
77.5°	2889	3950	4000	3677	3669	3827	3921	4391	5011	5307	5239
80°	1815	2665	2880	2481	2396	2620	3201	3885	4648	4914	4685
82.5°	1093	1717	2175	1949	1929	2337	2979	3245	3474	3757	3374
85°	742	1144	1488	1533	1708	2130	2409	2291	2297	2223	2025
87.5°	142	312	510	622	690	927	1008	913	964	705	771
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°	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671
2.5°	1757	1757	1757	1752	1753	1746	1743	1743	1740	1740	1739
5°	1812	1806	1809	1808	1808	1798	1793	1793	1780	1781	1777
7.5°	1894	1893	1896	1890	1882	1874	1866	1862	1844	1833	1826
10°	1987	1986	1989	1988	1974	1959	1937	1921	1899	1882	1865
12.5°	2089	2088	2086	2077	2062	2038	2010	1983	1950	1928	1903
15°	2248	2245	2233	2220	2204	2167	2118	2079	2035	1997	1956
17.5°	2483	2458	2456	2427	2384	2335	2289	2224	2161	2104	2048
20°	2807	2749	2733	2700	2643	2592	2492	2405	2319	2241	2170
22.5°	3160	3118	3079	3025	2947	2873	2746	2637	2527	2427	2348
25°	3653	3580	3510	3424	3316	3228	3083	2973	2829	2738	2624
27.5°	4290	4165	4047	3973	3783	3655	3470	3328	3154	3031	2896
30°	5119	4974	4799	4543	4317	4063	3834	3652	3467	3295	3139
32.5°	6147	5891	5614	5208	4837	4475	4170	3946	3757	3543	3323
35°	7016	6752	6359	5843	5385	4971	4606	4300	4053	3782	3491
37.5°	7702	7401	7032	6484	6000	5529	5146	4756	4432	4059	3691
40°	8488	8186	7780	7212	6639	6128	5679	5276	4878	4423	3950
42.5°	9173	8955	8544	7957	7322	6753	6262	5801	5281	4772	4212
45°	9887	9665	9275	8661	7986	7352	6765	6269	5655	5049	4408
47.5°	10518	10290	9896	9286	8569	7901	7255	6655	5942	5246	4536
50°	11120	10841	10480	9872	9106	8392	7691	6921	6165	5384	4623
52.5°	11673	11318	10976	10350	9522	8776	7994	7147	6302	5493	4682
55°	11987	11758	11349	10734	9818	9040	8186	7306	6438	5570	4707
57.5°	12084	12028	11685	10956	9992	9185	8316	7432	6529	5592	4672
60°	12007	12109	11921	11112	10071	9228	8380	7522	6545	5522	4566
62.5°	11760	11992	11968	11164	10030	9174	8373	7476	6395	5304	4328
65°	11354	11646	11749	10971	9799	8977	8195	7187	5978	4878	3929
67.5°	10590	11032	11132	10339	9195	8432	7682	6587	5206	4219	3306
70°	9059	9832	9967	9135	8130	7460	6824	5636	4335	3384	2537
72.5°	7232	7718	7994	7421	6673	6187	5705	4324	3271	2497	1746
75°	5654	5625	5872	5491	5051	4824	4462	3017	2191	1654	1105
77.5°	4834	4462	4181	3913	3652	3580	3233	1872	1354	991	661
80°	4018	3339	2826	2449	2356	2498	2116	1104	802	569	415
82.5°	2871	2402	1955	1716	1557	1783	1248	613	435	341	275
85°	1861	1779	1760	1682	1489	1406	948	528	326	212	171
87.5°	716	918	1059	1135	1227	1093	494	182	179	110	83
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°	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671
2.5°	1732	1728	1727	1724	1722	1722	1717	1626	1625	1625	1624
5°	1769	1764	1759	1758	1754	1754	1749	1658	1658	1658	1656
7.5°	1819	1809	1803	1800	1794	1797	1801	1709	1710	1709	1711
10°	1855	1849	1842	1840	1836	1839	1845	1754	1757	1758	1760
12.5°	1890	1880	1871	1868	1866	1874	1881	1793	1796	1799	1799
15°	1933	1916	1904	1897	1893	1901	1911	1824	1825	1828	1827
17.5°	2006	1981	1953	1948	1935	1938	1940	1843	1839	1832	1820
20°	2119	2081	2043	2027	2001	1990	1968	1844	1819	1798	1780
22.5°	2281	2225	2184	2157	2104	2067	2007	1839	1792	1756	1728
25°	2543	2476	2413	2345	2262	2188	2100	1883	1810	1748	1694
27.5°	2798	2692	2595	2493	2376	2265	2141	1897	1814	1734	1646
30°	2989	2835	2688	2539	2386	2242	2102	1849	1750	1660	1567
32.5°	3105	2905	2714	2529	2349	2187	2030	1766	1657	1551	1452
35°	3215	2967	2730	2512	2306	2126	1957	1669	1539	1426	1301
37.5°	3351	3032	2740	2481	2243	2037	1851	1547	1417	1278	1160
40°	3514	3099	2730	2419	2145	1920	1723	1419	1274	1139	1023
42.5°	3669	3158	2704	2336	2038	1798	1606	1305	1160	1022	907
45°	3784	3208	2691	2278	1956	1715	1503	1213	1060	921	804
47.5°	3864	3238	2685	2246	1899	1629	1409	1121	960	820	706
50°	3906	3237	2670	2211	1815	1526	1312	1028	868	731	627
52.5°	3917	3219	2638	2147	1713	1423	1208	931	787	656	551
55°	3892	3175	2571	2040	1604	1314	1113	855	708	584	502
57.5°	3821	3097	2445	1893	1489	1213	1004	763	622	518	450
60°	3689	2932	2248	1719	1343	1059	854	643	531	453	398
62.5°	3445	2673	1971	1479	1133	859	682	513	429	378	344
65°	3052	2283	1650	1165	861	625	507	386	325	294	284
67.5°	2491	1763	1200	809	583	438	353	282	253	241	237
70°	1811	1201	777	511	385	306	267	227	211	208	208
72.5°	1137	730	476	350	292	248	228	200	194	192	189
75°	667	443	337	287	250	222	205	182	178	177	174
77.5°	425	319	272	245	226	201	186	162	161	160	159
80°	305	265	238	217	198	175	166	147	145	144	146
82.5°	231	219	208	192	166	149	142	129	130	125	124
85°	159	157	156	149	130	115	110	103	108	103	97
87.5°	78	77	71	84	78	62	56	62	69	67	62
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671
2.5°	1620	1616	1619	1617	1617	1616	1618	1615	1613	1615	1616
5°	1652	1647	1648	1641	1644	1637	1639	1634	1629	1627	1627
7.5°	1706	1701	1695	1694	1683	1679	1672	1668	1665	1658	1654
10°	1755	1747	1740	1739	1728	1718	1709	1701	1696	1686	1681
12.5°	1795	1787	1776	1770	1759	1747	1741	1729	1722	1711	1702
15°	1818	1804	1788	1777	1761	1748	1739	1730	1723	1709	1696
17.5°	1807	1784	1762	1742	1720	1708	1695	1684	1682	1666	1646
20°	1761	1734	1705	1678	1649	1632	1616	1599	1594	1575	1549
22.5°	1705	1674	1641	1608	1571	1547	1523	1502	1485	1457	1420
25°	1648	1602	1554	1512	1469	1439	1414	1391	1371	1326	1288
27.5°	1573	1501	1452	1404	1352	1313	1285	1253	1231	1179	1139
30°	1477	1405	1335	1287	1235	1193	1157	1111	1079	1041	1004
32.5°	1356	1284	1213	1159	1116	1064	1019	975	938	901	872
35°	1209	1139	1072	1018	970	929	886	848	806	766	749
37.5°	1054	979	905	858	820	791	751	720	682	658	638
40°	919	839	769	729	699	666	633	609	582	558	543
42.5°	805	730	670	636	600	564	539	519	502	484	466
45°	700	628	578	536	506	477	460	451	441	430	418
47.5°	612	550	501	462	431	411	403	400	396	387	381
50°	545	494	444	409	383	373	364	361	356	353	349
52.5°	489	435	393	361	345	341	337	333	332	330	328
55°	443	396	357	333	325	322	321	317	316	316	313
57.5°	402	362	327	312	307	304	302	300	300	302	301
60°	360	326	305	297	294	289	284	282	283	288	288
62.5°	319	294	281	278	275	271	265	263	265	271	274
65°	274	263	259	257	255	252	248	246	247	250	254
67.5°	233	232	232	233	232	231	229	226	225	225	227
70°	208	208	211	211	210	210	207	204	202	200	201
72.5°	189	189	190	191	190	190	186	184	179	178	176
75°	173	171	171	170	169	170	166	161	159	158	156
77.5°	157	153	151	149	150	149	146	143	140	139	138
80°	139	133	130	125	128	129	127	124	123	122	121
82.5°	115	109	105	102	100	102	105	112	110	109	107
85°	90	80	75	76	71	72	81	85	85	87	85
87.5°	51	49	37	34	36	43	48	53	53	50	56
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671
2.5°	1616	1618	1619	1623	1625	1626	1627	1629	1630	1629	1634
5°	1624	1624	1622	1625	1626	1626	1624	1626	1626	1626	1631
7.5°	1645	1639	1636	1632	1629	1625	1620	1620	1619	1620	1623
10°	1667	1658	1647	1637	1628	1621	1612	1609	1608	1607	1615
12.5°	1684	1668	1651	1634	1616	1604	1589	1580	1579	1579	1589
15°	1672	1646	1613	1583	1567	1550	1533	1522	1521	1523	1529
17.5°	1612	1570	1541	1512	1491	1477	1466	1464	1468	1464	1472
20°	1510	1465	1445	1422	1414	1404	1388	1374	1374	1356	1361
22.5°	1378	1353	1327	1309	1303	1286	1269	1250	1248	1226	1223
25°	1240	1215	1194	1190	1172	1149	1133	1111	1106	1084	1081
27.5°	1099	1079	1058	1046	1036	1011	997	971	961	937	934
30°	965	951	926	916	897	868	838	822	814	789	781
32.5°	839	817	798	786	762	729	702	679	664	634	626
35°	719	697	688	657	636	614	577	563	536	513	505
37.5°	613	592	580	554	533	511	489	471	458	453	453
40°	522	511	496	477	463	447	435	429	428	430	435
42.5°	457	445	435	425	415	413	410	414	419	424	429
45°	408	398	392	388	387	390	396	402	411	417	421
47.5°	373	365	363	362	367	376	384	393	400	406	410
50°	343	336	335	334	341	349	356	368	373	377	380
52.5°	322	316	313	314	321	328	338	347	354	357	360
55°	305	303	296	299	306	315	325	335	342	347	352
57.5°	292	287	282	287	294	303	315	324	333	340	345
60°	278	274	270	275	282	291	300	312	323	330	335
62.5°	266	263	259	260	263	269	274	285	295	304	310
65°	249	248	242	243	245	251	255	265	275	283	288
67.5°	224	222	222	225	226	229	232	242	250	256	262
70°	199	198	198	200	199	202	206	215	225	231	237
72.5°	175	175	174	176	176	177	182	190	199	204	208
75°	154	153	153	153	154	154	159	166	175	178	184
77.5°	135	135	135	135	136	135	138	143	146	151	151
80°	119	118	119	120	120	119	119	120	121	121	121
82.5°	105	102	104	109	109	109	108	101	96	96	98
85°	84	84	85	92	93	89	93	83	73	70	72
87.5°	52	41	50	57	57	54	60	56	47	38	36
90°	0	0	0	0	0	0	0	0	0	0	0



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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671	1671	0°
2.5°	1638	1639	1645	1648	1648	1652	1654	1660	1659	1659	1661	2.5°
5°	1636	1639	1645	1649	1651	1656	1660	1667	1666	1668	1669	5°
7.5°	1629	1637	1643	1651	1658	1662	1667	1673	1671	1672	1671	7.5°
10°	1623	1631	1643	1654	1664	1670	1673	1680	1679	1681	1681	10°
12.5°	1599	1613	1628	1645	1660	1676	1686	1701	1708	1717	1727	12.5°
15°	1538	1554	1578	1597	1626	1648	1677	1706	1732	1757	1786	15°
17.5°	1478	1485	1504	1530	1556	1589	1624	1676	1723	1774	1830	17.5°
20°	1367	1379	1392	1423	1454	1501	1544	1612	1681	1761	1847	20°
22.5°	1230	1242	1256	1291	1329	1377	1429	1505	1597	1701	1816	22.5°
25°	1082	1089	1100	1135	1158	1221	1284	1363	1463	1597	1731	25°
27.5°	919	932	941	957	1010	1064	1130	1215	1336	1473	1635	27.5°
30°	763	774	769	803	838	895	966	1060	1176	1339	1526	30°
32.5°	610	618	615	639	674	731	798	900	1023	1197	1400	32.5°
35°	503	505	516	527	557	603	660	749	875	1035	1250	35°
37.5°	453	457	464	479	501	534	581	650	758	899	1091	37.5°
40°	438	441	445	455	476	505	547	605	684	803	959	40°
42.5°	431	431	431	437	453	484	532	589	658	748	874	42.5°
45°	421	421	420	423	434	465	517	581	655	741	850	45°
47.5°	410	409	406	406	413	444	498	567	648	747	864	47.5°
50°	380	380	380	383	389	417	475	548	641	751	886	50°
52.5°	363	364	367	367	373	402	463	544	645	766	914	52.5°
55°	355	358	361	361	366	396	459	547	660	797	962	55°
57.5°	348	351	353	353	357	383	448	542	669	827	1021	57.5°
60°	335	337	338	338	339	361	423	518	649	825	1053	60°
62.5°	311	315	316	317	317	338	391	479	606	795	1044	62.5°
65°	293	295	298	300	304	318	360	432	550	735	994	65°
67.5°	265	268	271	275	279	288	321	379	474	633	882	67.5°
70°	240	241	244	249	250	255	279	319	388	508	710	70°
72.5°	209	211	215	221	221	225	239	260	304	388	524	72.5°
75°	182	184	187	187	182	183	193	208	241	292	382	75°
77.5°	151	155	158	152	150	153	158	169	193	232	287	77.5°
80°	125	127	128	129	127	130	134	141	157	187	227	80°
82.5°	100	102	105	109	109	120	121	121	130	149	178	82.5°
85°	74	78	82	87	88	94	91	90	93	111	123	85°
87.5°	38	41	43	47	42	44	44	41	36	45	50	87.5°
90°	0	0	0	0	0	0	0	0	0	0	0	90°

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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1671	1671	1671	1671	1671	1671	1671
1663	1661	1663	1663	1666	1664	1770
1671	1669	1671	1673	1676	1676	1793
1672	1672	1670	1675	1679	1683	1815
1684	1684	1686	1687	1696	1706	1851
1733	1738	1747	1750	1766	1777	1943
1808	1836	1854	1860	1874	1895	2098
1884	1931	1980	2010	2028	2053	2288
1941	2029	2113	2188	2231	2280	2554
1946	2086	2228	2367	2482	2573	2914
1898	2082	2278	2491	2689	2853	3328
1837	2063	2313	2585	2845	3087	3633
1760	2031	2319	2625	2930	3221	3807
1643	1936	2247	2585	2939	3293	3919
1493	1792	2111	2496	2897	3322	4013
1340	1635	1978	2377	2830	3317	4051
1178	1471	1822	2250	2739	3271	4044
1068	1335	1679	2121	2638	3210	3997
1004	1238	1566	2003	2546	3137	3938
1003	1209	1506	1919	2453	3056	3858
1038	1227	1499	1883	2402	2997	3771
1079	1277	1536	1896	2401	2971	3710
1144	1362	1617	1952	2427	2967	3635
1227	1477	1763	2090	2528	3046	3640
1312	1612	1954	2326	2727	3230	3798
1343	1716	2148	2603	3025	3506	4124
1316	1740	2266	2818	3315	3829	4513
1216	1643	2218	2879	3482	4058	4902
1001	1402	2000	2742	3469	4105	5042
734	1087	1626	2330	3084	3811	4832
530	769	1174	1755	2438	3069	4053
380	533	762	1153	1661	2137	2889
273	362	475	692	1012	1312	1815
201	248	312	430	596	764	1093
137	146	188	254	391	562	742
52	59	69	104	175	201	142
0	0	0	0	0	0	0

(END OF REPORT)