

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: P159110

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159110
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-SLR
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
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



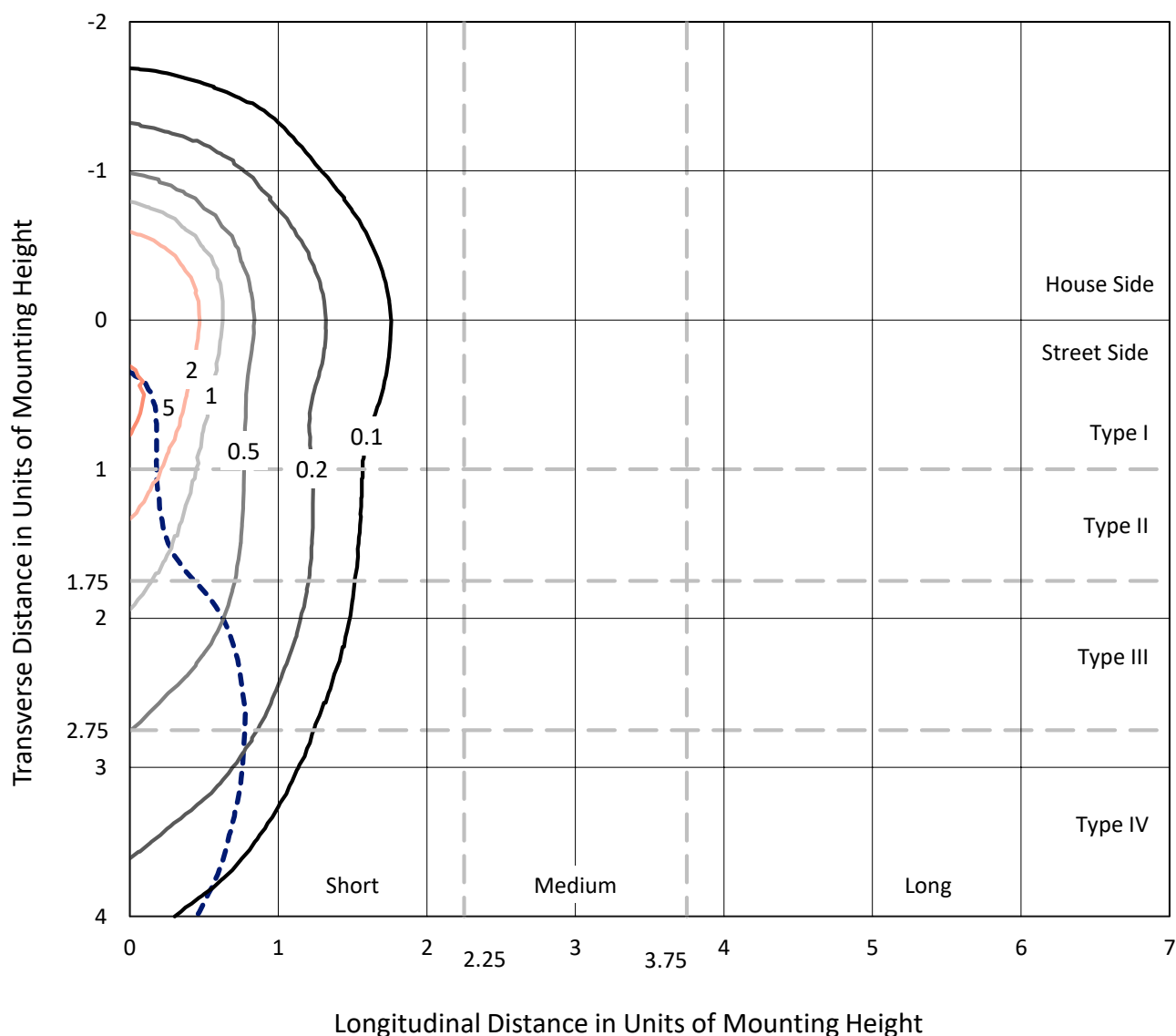
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

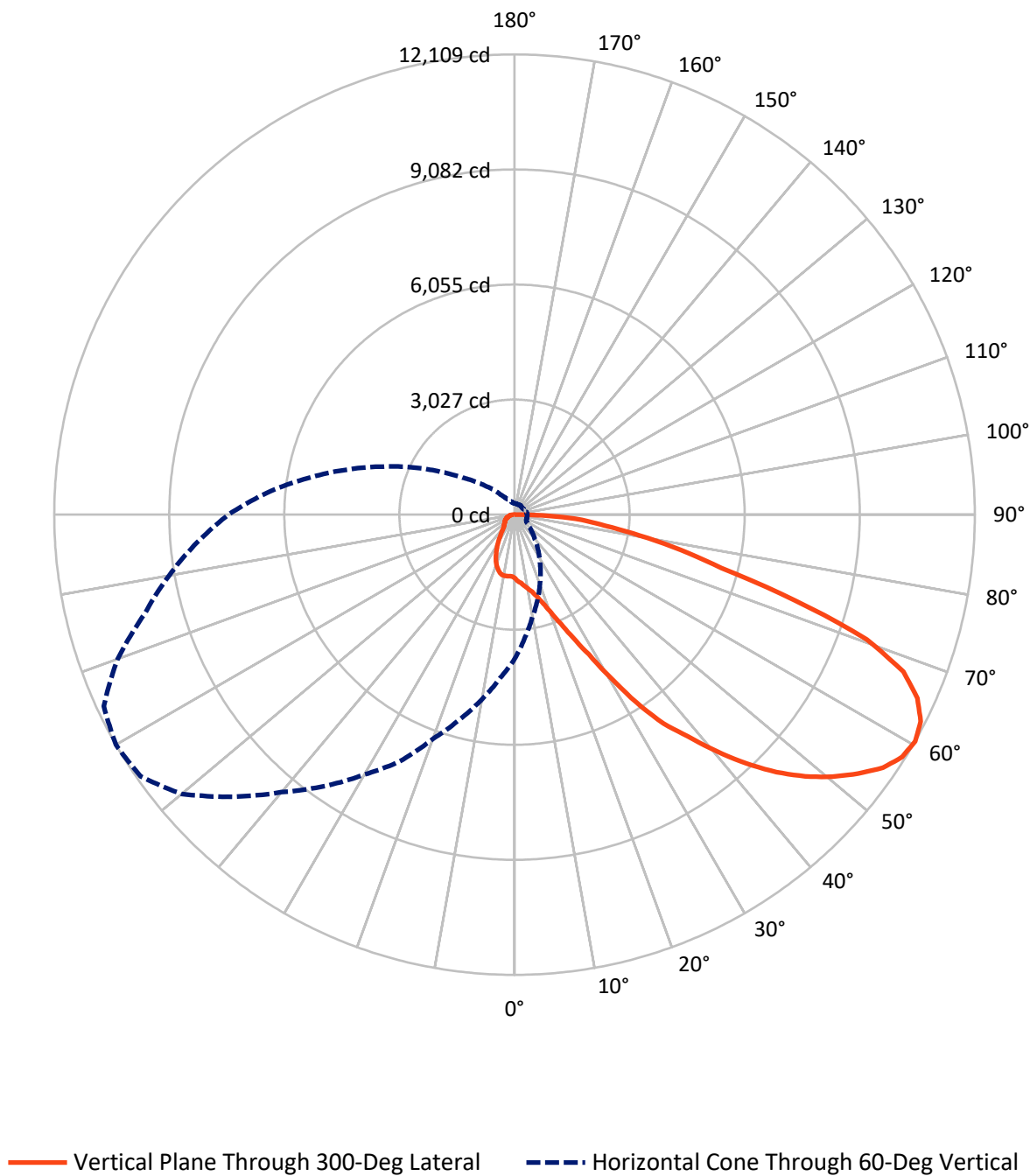


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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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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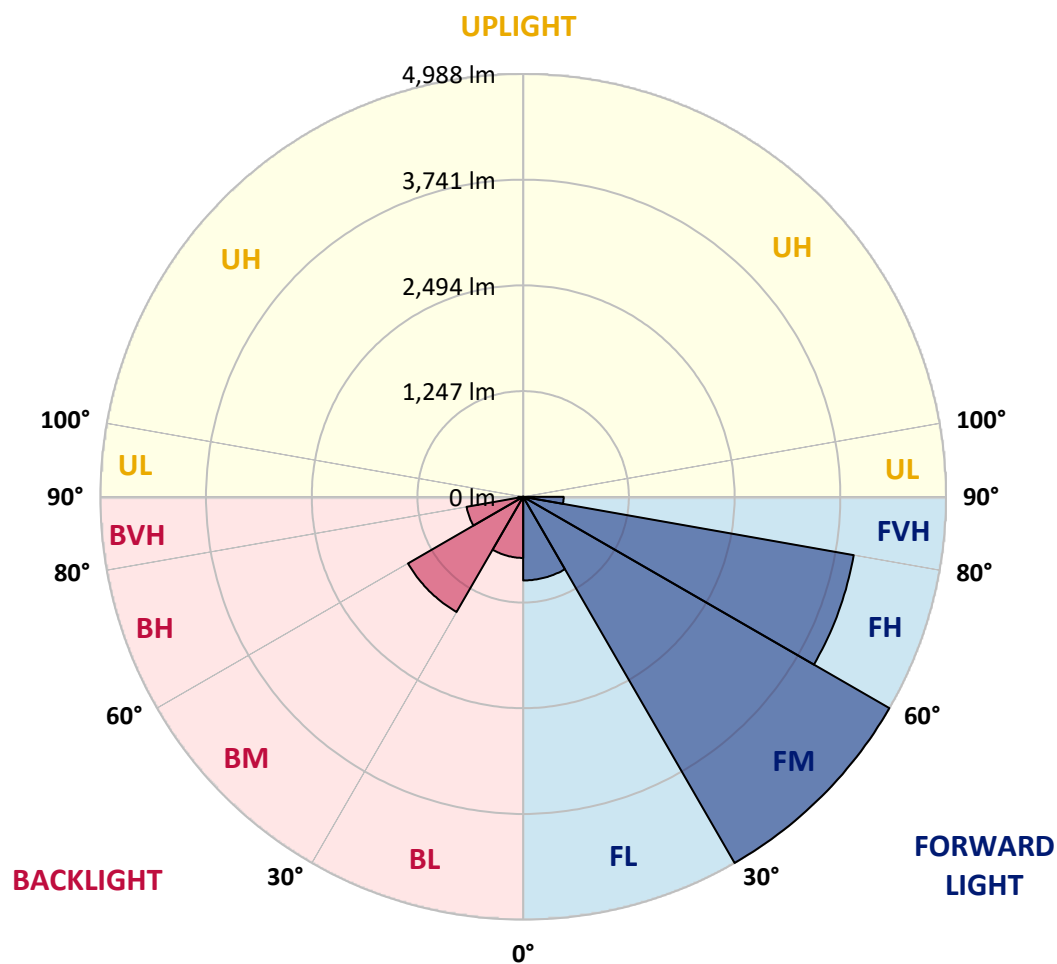
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	1664	1666	1663	1663	1661	1663	1661	1659	1659	1660
5°	1793	1676	1676	1673	1671	1669	1671	1669	1668	1666	1667
7.5°	1815	1683	1679	1675	1670	1672	1672	1671	1672	1671	1673
10°	1851	1706	1696	1687	1686	1684	1684	1681	1681	1679	1680
12.5°	1943	1777	1766	1750	1747	1738	1733	1727	1717	1708	1701
15°	2098	1895	1874	1860	1854	1836	1808	1786	1757	1732	1706
17.5°	2288	2053	2028	2010	1980	1931	1884	1830	1774	1723	1676
20°	2554	2280	2231	2188	2113	2029	1941	1847	1761	1681	1612
22.5°	2914	2573	2482	2367	2228	2086	1946	1816	1701	1597	1505
25°	3328	2853	2689	2491	2278	2082	1898	1731	1597	1463	1363
27.5°	3633	3087	2845	2585	2313	2063	1837	1635	1473	1336	1215
30°	3807	3221	2930	2625	2319	2031	1760	1526	1339	1176	1060
32.5°	3919	3293	2939	2585	2247	1936	1643	1400	1197	1023	900
35°	4013	3322	2897	2496	2111	1792	1493	1250	1035	875	749
37.5°	4051	3317	2830	2377	1978	1635	1340	1091	899	758	650
40°	4044	3271	2739	2250	1822	1471	1178	959	803	684	605
42.5°	3997	3210	2638	2121	1679	1335	1068	874	748	658	589
45°	3938	3137	2546	2003	1566	1238	1004	850	741	655	581
47.5°	3858	3056	2453	1919	1506	1209	1003	864	747	648	567
50°	3771	2997	2402	1883	1499	1227	1038	886	751	641	548
52.5°	3710	2971	2401	1896	1536	1277	1079	914	766	645	544
55°	3635	2967	2427	1952	1617	1362	1144	962	797	660	547
57.5°	3640	3046	2528	2090	1763	1477	1227	1021	827	669	542
60°	3798	3230	2727	2326	1954	1612	1312	1053	825	649	518
62.5°	4124	3506	3025	2603	2148	1716	1343	1044	795	606	479
65°	4513	3829	3315	2818	2266	1740	1316	994	735	550	432
67.5°	4902	4058	3482	2879	2218	1643	1216	882	633	474	379
70°	5042	4105	3469	2742	2000	1402	1001	710	508	388	319
72.5°	4832	3811	3084	2330	1626	1087	734	524	388	304	260
75°	4053	3069	2438	1755	1174	769	530	382	292	241	208
77.5°	2889	2137	1661	1153	762	533	380	287	232	193	169
80°	1815	1312	1012	692	475	362	273	227	187	157	141
82.5°	1093	764	596	430	312	248	201	178	149	130	121
85°	742	562	391	254	188	146	137	123	111	93	90
87.5°	142	201	175	104	69	59	52	50	45	36	41
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°	1654	1652	1648	1648	1645	1639	1638	1634	1629	1630	1629
5°	1660	1656	1651	1649	1645	1639	1636	1631	1626	1626	1626
7.5°	1667	1662	1658	1651	1643	1637	1629	1623	1620	1619	1620
10°	1673	1670	1664	1654	1643	1631	1623	1615	1607	1608	1609
12.5°	1686	1676	1660	1645	1628	1613	1599	1589	1579	1579	1580
15°	1677	1648	1626	1597	1578	1554	1538	1529	1523	1521	1522
17.5°	1624	1589	1556	1530	1504	1485	1478	1472	1464	1468	1464
20°	1544	1501	1454	1423	1392	1379	1367	1361	1356	1374	1374
22.5°	1429	1377	1329	1291	1256	1242	1230	1223	1226	1248	1250
25°	1284	1221	1158	1135	1100	1089	1082	1081	1084	1106	1111
27.5°	1130	1064	1010	957	941	932	919	934	937	961	971
30°	966	895	838	803	769	774	763	781	789	814	822
32.5°	798	731	674	639	615	618	610	626	634	664	679
35°	660	603	557	527	516	505	503	505	513	536	563
37.5°	581	534	501	479	464	457	453	453	453	458	471
40°	547	505	476	455	445	441	438	435	430	428	429
42.5°	532	484	453	437	431	431	431	429	424	419	414
45°	517	465	434	423	420	421	421	421	417	411	402
47.5°	498	444	413	406	406	409	410	410	406	400	393
50°	475	417	389	383	380	380	380	380	377	373	368
52.5°	463	402	373	367	367	364	363	360	357	354	347
55°	459	396	366	361	361	358	355	352	347	342	335
57.5°	448	383	357	353	353	351	348	345	340	333	324
60°	423	361	339	338	338	337	335	335	330	323	312
62.5°	391	338	317	317	316	315	311	310	304	295	285
65°	360	318	304	300	298	295	293	288	283	275	265
67.5°	321	288	279	275	271	268	265	262	256	250	242
70°	279	255	250	249	244	241	240	237	231	225	215
72.5°	239	225	221	221	215	211	209	208	204	199	190
75°	193	183	182	187	187	184	182	184	178	175	166
77.5°	158	153	150	152	158	155	151	151	151	146	143
80°	134	130	127	129	128	127	125	121	121	121	120
82.5°	121	120	109	109	105	102	100	98	96	96	101
85°	91	94	88	87	82	78	74	72	70	73	83
87.5°	44	44	42	47	43	41	38	36	38	47	56
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°	1627	1626	1625	1623	1619	1618	1616	1616	1615	1613	1615
5°	1624	1626	1626	1625	1622	1624	1624	1627	1627	1629	1634
7.5°	1620	1625	1629	1632	1636	1639	1645	1654	1658	1665	1668
10°	1612	1621	1628	1637	1647	1658	1667	1681	1686	1696	1701
12.5°	1589	1604	1616	1634	1651	1668	1684	1702	1711	1722	1729
15°	1533	1550	1567	1583	1613	1646	1672	1696	1709	1723	1730
17.5°	1466	1477	1491	1512	1541	1570	1612	1646	1666	1682	1684
20°	1388	1404	1414	1422	1445	1465	1510	1549	1575	1594	1599
22.5°	1269	1286	1303	1309	1327	1353	1378	1420	1457	1485	1502
25°	1133	1149	1172	1190	1194	1215	1240	1288	1326	1371	1391
27.5°	997	1011	1036	1046	1058	1079	1099	1139	1179	1231	1253
30°	838	868	897	916	926	951	965	1004	1041	1079	1111
32.5°	702	729	762	786	798	817	839	872	901	938	975
35°	577	614	636	657	688	697	719	749	766	806	848
37.5°	489	511	533	554	580	592	613	638	658	682	720
40°	435	447	463	477	496	511	522	543	558	582	609
42.5°	410	413	415	425	435	445	457	466	484	502	519
45°	396	390	387	388	392	398	408	418	430	441	451
47.5°	384	376	367	362	363	365	373	381	387	396	400
50°	356	349	341	334	335	336	343	349	353	356	361
52.5°	338	328	321	314	313	316	322	328	330	332	333
55°	325	315	306	299	296	303	305	313	316	316	317
57.5°	315	303	294	287	282	287	292	301	302	300	300
60°	300	291	282	275	270	274	278	288	288	283	282
62.5°	274	269	263	260	259	263	266	274	271	265	263
65°	255	251	245	243	242	248	249	254	250	247	246
67.5°	232	229	226	225	222	222	224	227	225	225	226
70°	206	202	199	200	198	198	199	201	200	202	204
72.5°	182	177	176	176	174	175	175	176	178	179	184
75°	159	154	154	153	153	153	154	156	158	159	161
77.5°	138	135	136	135	135	135	135	138	139	140	143
80°	119	119	120	120	119	118	119	121	122	123	124
82.5°	108	109	109	109	104	102	105	107	109	110	112
85°	93	89	93	92	85	84	84	85	87	85	85
87.5°	60	54	57	57	50	41	52	56	50	53	53
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°	1618	1616	1617	1617	1619	1616	1620	1624	1625	1625	1626
5°	1639	1637	1644	1641	1648	1647	1652	1656	1658	1658	1658
7.5°	1672	1679	1683	1694	1695	1701	1706	1711	1709	1710	1709
10°	1709	1718	1728	1739	1740	1747	1755	1760	1758	1757	1754
12.5°	1741	1747	1759	1770	1776	1787	1795	1799	1799	1796	1793
15°	1739	1748	1761	1777	1788	1804	1818	1827	1828	1825	1824
17.5°	1695	1708	1720	1742	1762	1784	1807	1820	1832	1839	1843
20°	1616	1632	1649	1678	1705	1734	1761	1780	1798	1819	1844
22.5°	1523	1547	1571	1608	1641	1674	1705	1728	1756	1792	1839
25°	1414	1439	1469	1512	1554	1602	1648	1694	1748	1810	1883
27.5°	1285	1313	1352	1404	1452	1501	1573	1646	1734	1814	1897
30°	1157	1193	1235	1287	1335	1405	1477	1567	1660	1750	1849
32.5°	1019	1064	1116	1159	1213	1284	1356	1452	1551	1657	1766
35°	886	929	970	1018	1072	1139	1209	1301	1426	1539	1669
37.5°	751	791	820	858	905	979	1054	1160	1278	1417	1547
40°	633	666	699	729	769	839	919	1023	1139	1274	1419
42.5°	539	564	600	636	670	730	805	907	1022	1160	1305
45°	460	477	506	536	578	628	700	804	921	1060	1213
47.5°	403	411	431	462	501	550	612	706	820	960	1121
50°	364	373	383	409	444	494	545	627	731	868	1028
52.5°	337	341	345	361	393	435	489	551	656	787	931
55°	321	322	325	333	357	396	443	502	584	708	855
57.5°	302	304	307	312	327	362	402	450	518	622	763
60°	284	289	294	297	305	326	360	398	453	531	643
62.5°	265	271	275	278	281	294	319	344	378	429	513
65°	248	252	255	257	259	263	274	284	294	325	386
67.5°	229	231	232	233	232	232	233	237	241	253	282
70°	207	210	210	211	211	208	208	208	208	211	227
72.5°	186	190	190	191	190	189	189	189	192	194	200
75°	166	170	169	170	171	171	173	174	177	178	182
77.5°	146	149	150	149	151	153	157	159	160	161	162
80°	127	129	128	125	130	133	139	146	144	145	147
82.5°	105	102	100	102	105	109	115	124	125	130	129
85°	81	72	71	76	75	80	90	97	103	108	103
87.5°	48	43	36	34	37	49	51	62	67	69	62
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°	1717	1722	1722	1724	1727	1728	1732	1739	1740	1740	1743
5°	1749	1754	1754	1758	1759	1764	1769	1777	1781	1780	1793
7.5°	1801	1797	1794	1800	1803	1809	1819	1826	1833	1844	1862
10°	1845	1839	1836	1840	1842	1849	1855	1865	1882	1899	1921
12.5°	1881	1874	1866	1868	1871	1880	1890	1903	1928	1950	1983
15°	1911	1901	1893	1897	1904	1916	1933	1956	1997	2035	2079
17.5°	1940	1938	1935	1948	1953	1981	2006	2048	2104	2161	2224
20°	1968	1990	2001	2027	2043	2081	2119	2170	2241	2319	2405
22.5°	2007	2067	2104	2157	2184	2225	2281	2348	2427	2527	2637
25°	2100	2188	2262	2345	2413	2476	2543	2624	2738	2829	2973
27.5°	2141	2265	2376	2493	2595	2692	2798	2896	3031	3154	3328
30°	2102	2242	2386	2539	2688	2835	2989	3139	3295	3467	3652
32.5°	2030	2187	2349	2529	2714	2905	3105	3323	3543	3757	3946
35°	1957	2126	2306	2512	2730	2967	3215	3491	3782	4053	4300
37.5°	1851	2037	2243	2481	2740	3032	3351	3691	4059	4432	4756
40°	1723	1920	2145	2419	2730	3099	3514	3950	4423	4878	5276
42.5°	1606	1798	2038	2336	2704	3158	3669	4212	4772	5281	5801
45°	1503	1715	1956	2278	2691	3208	3784	4408	5049	5655	6269
47.5°	1409	1629	1899	2246	2685	3238	3864	4536	5246	5942	6655
50°	1312	1526	1815	2211	2670	3237	3906	4623	5384	6165	6921
52.5°	1208	1423	1713	2147	2638	3219	3917	4682	5493	6302	7147
55°	1113	1314	1604	2040	2571	3175	3892	4707	5570	6438	7306
57.5°	1004	1213	1489	1893	2445	3097	3821	4672	5592	6529	7432
60°	854	1059	1343	1719	2248	2932	3689	4566	5522	6545	7522
62.5°	682	859	1133	1479	1971	2673	3445	4328	5304	6395	7476
65°	507	625	861	1165	1650	2283	3052	3929	4878	5978	7187
67.5°	353	438	583	809	1200	1763	2491	3306	4219	5206	6587
70°	267	306	385	511	777	1201	1811	2537	3384	4335	5636
72.5°	228	248	292	350	476	730	1137	1746	2497	3271	4324
75°	205	222	250	287	337	443	667	1105	1654	2191	3017
77.5°	186	201	226	245	272	319	425	661	991	1354	1872
80°	166	175	198	217	238	265	305	415	569	802	1104
82.5°	142	149	166	192	208	219	231	275	341	435	613
85°	110	115	130	149	156	157	159	171	212	326	528
87.5°	56	62	78	84	71	77	78	83	110	179	182
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°	1743	1746	1753	1752	1757	1757	1757	1762	1759	1762	1767	2.5°
5°	1793	1798	1808	1808	1809	1806	1812	1816	1811	1809	1810	5°
7.5°	1866	1874	1882	1890	1896	1893	1894	1885	1883	1876	1867	7.5°
10°	1937	1959	1974	1988	1989	1986	1987	1972	1969	1955	1946	10°
12.5°	2010	2038	2062	2077	2086	2088	2089	2089	2075	2063	2042	12.5°
15°	2118	2167	2204	2220	2233	2245	2248	2252	2241	2225	2222	15°
17.5°	2289	2335	2384	2427	2456	2458	2483	2481	2504	2486	2481	17.5°
20°	2492	2592	2643	2700	2733	2749	2807	2789	2806	2835	2806	20°
22.5°	2746	2873	2947	3025	3079	3118	3160	3193	3239	3261	3241	22.5°
25°	3083	3228	3316	3424	3510	3580	3653	3741	3740	3793	3830	25°
27.5°	3470	3655	3783	3973	4047	4165	4290	4426	4450	4519	4554	27.5°
30°	3834	4063	4317	4543	4799	4974	5119	5215	5360	5324	5304	30°
32.5°	4170	4475	4837	5208	5614	5891	6147	6266	6356	6165	5912	32.5°
35°	4606	4971	5385	5843	6359	6752	7016	7053	7002	6757	6338	35°
37.5°	5146	5529	6000	6484	7032	7401	7702	7756	7621	7184	6744	37.5°
40°	5679	6128	6639	7212	7780	8186	8488	8504	8284	7773	7258	40°
42.5°	6262	6753	7322	7957	8544	8955	9173	9242	8931	8276	7782	42.5°
45°	6765	7352	7986	8661	9275	9665	9887	9865	9489	8842	8263	45°
47.5°	7255	7901	8569	9286	9896	10290	10518	10498	10021	9276	8639	47.5°
50°	7691	8392	9106	9872	10480	10841	11120	11032	10429	9625	8881	50°
52.5°	7994	8776	9522	10350	10976	11318	11673	11390	10670	9839	9011	52.5°
55°	8186	9040	9818	10734	11349	11758	11987	11585	10763	9898	9056	55°
57.5°	8316	9185	9992	10956	11685	12028	12084	11592	10703	9805	9011	57.5°
60°	8380	9228	10071	11112	11921	12109	12007	11430	10496	9532	8721	60°
62.5°	8373	9174	10030	11164	11968	11992	11760	11154	10115	8959	8239	62.5°
65°	8195	8977	9799	10971	11749	11646	11354	10636	9374	8211	7847	65°
67.5°	7682	8432	9195	10339	11132	11032	10590	9618	8513	7549	7353	67.5°
70°	6824	7460	8130	9135	9967	9832	9059	8468	7660	6784	6716	70°
72.5°	5705	6187	6673	7421	7994	7718	7232	7201	6548	5879	5893	72.5°
75°	4462	4824	5051	5491	5872	5625	5654	5826	5611	5084	4913	75°
77.5°	3233	3580	3652	3913	4181	4462	4834	5239	5307	5011	4391	77.5°
80°	2116	2498	2356	2449	2826	3339	4018	4685	4914	4648	3885	80°
82.5°	1248	1783	1557	1716	1955	2402	2871	3374	3757	3474	3245	82.5°
85°	948	1406	1489	1682	1760	1779	1861	2025	2223	2297	2291	85°
87.5°	494	1093	1227	1135	1059	918	716	771	705	964	913	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
1768	1765	1767	1768	1768	1768	1770
1809	1801	1798	1798	1797	1794	1793
1853	1839	1834	1828	1823	1820	1815
1932	1920	1895	1881	1868	1859	1851
2038	2021	1997	1979	1959	1953	1943
2202	2187	2166	2146	2134	2113	2098
2458	2428	2407	2381	2352	2309	2288
2795	2735	2693	2670	2612	2605	2554
3182	3164	3100	3072	3016	2994	2914
3761	3747	3616	3602	3516	3452	3328
4522	4407	4259	4156	4009	3844	3633
5187	4952	4726	4486	4283	4046	3807
5611	5296	5005	4759	4508	4226	3919
5983	5665	5348	5057	4753	4392	4013
6428	6112	5755	5346	4956	4514	4051
6884	6514	6068	5567	5077	4574	4044
7351	6878	6285	5714	5154	4583	3997
7730	7132	6446	5789	5170	4552	3938
7998	7295	6518	5815	5150	4503	3858
8151	7384	6536	5796	5109	4433	3771
8207	7411	6518	5757	5072	4358	3710
8201	7396	6452	5666	4973	4258	3635
8088	7257	6317	5557	4889	4212	3640
7896	7169	6277	5579	4933	4311	3798
7809	7345	6502	5799	5159	4594	4124
7760	7631	6824	6036	5427	4937	4513
7560	7713	7007	6171	5666	5281	4902
7237	7522	6868	6145	5798	5545	5042
6563	6864	6249	5762	5633	5549	4832
5317	5473	5123	5013	5061	5062	4053
3921	3827	3669	3677	4000	3950	2889
3201	2620	2396	2481	2880	2665	1815
2979	2337	1929	1949	2175	1717	1093
2409	2130	1708	1533	1488	1144	742
1008	927	690	622	510	312	142
0	0	0	0	0	0	0

(END OF REPORT)