

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: P157190

Luminaire Tested: **UTLD-E02-LED-E-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157190
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33663)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-T4
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

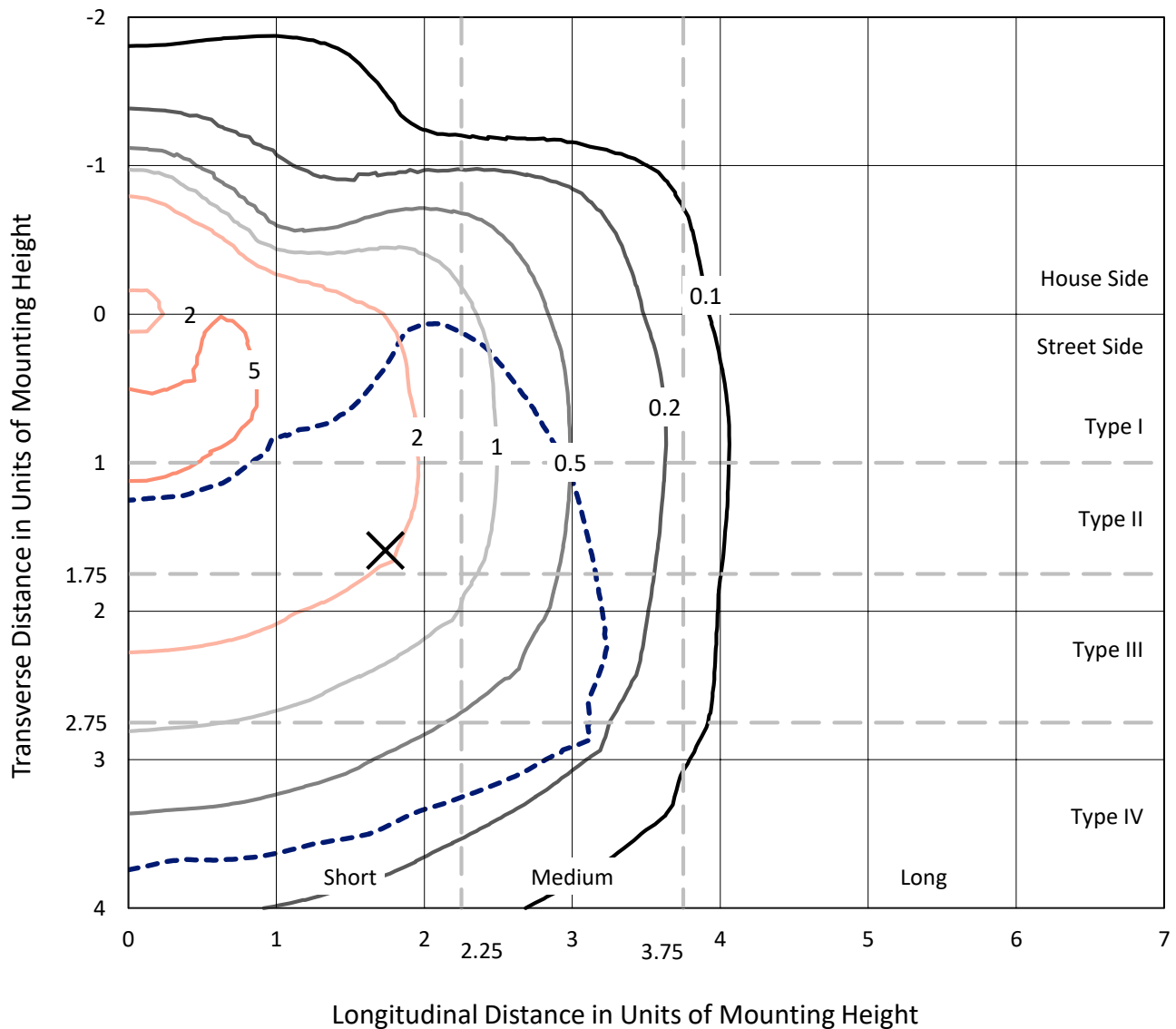


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

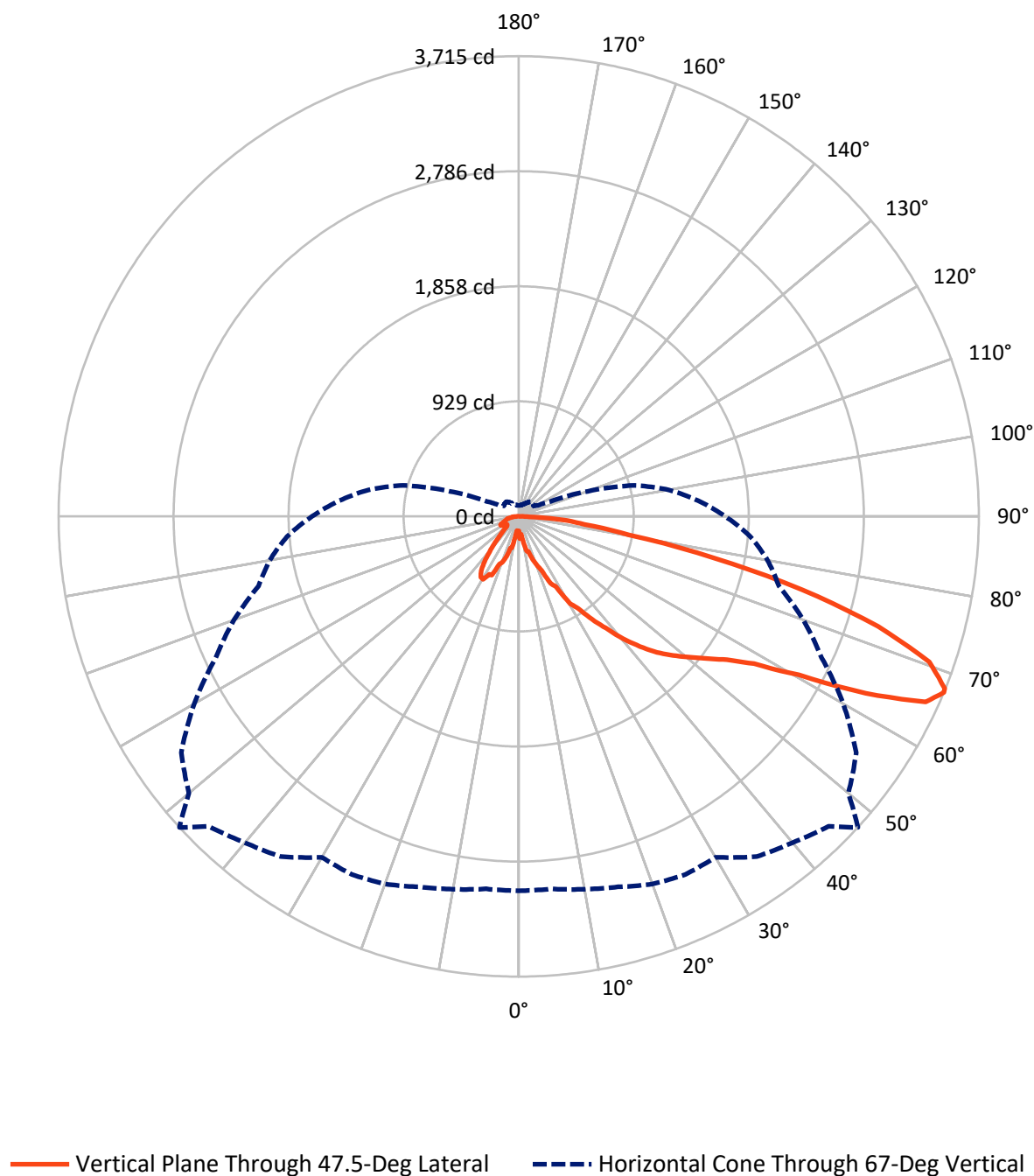


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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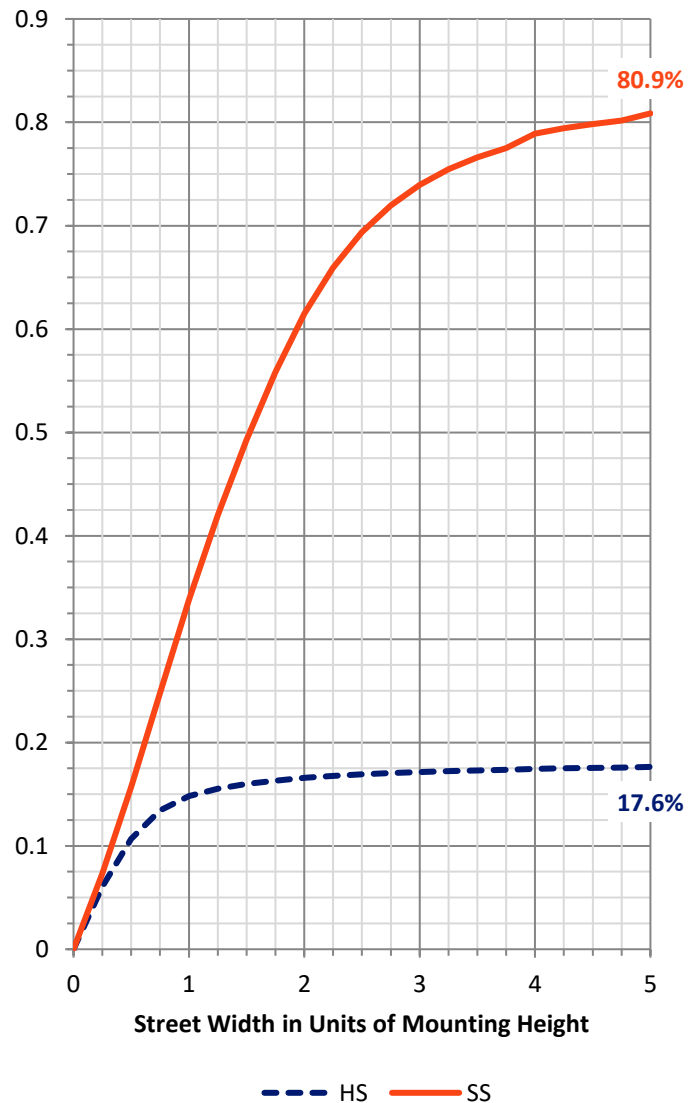
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.6	0.0	946.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	4327.3	0.0	4327.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	5273.9	0.0	5273.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	0.3
10°-20°	86.5	1.6
20°-30°	254.9	4.8
30°-40°	501.1	9.5
40°-50°	699.8	13.3
50°-60°	975.6	18.5
60°-70°	1563.3	29.6
70°-80°	1002.9	19.0
80°-90°	174.5	3.3
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°	5273.9	100.0
0°-180°	5273.9	100.0

Coefficient of Utilization



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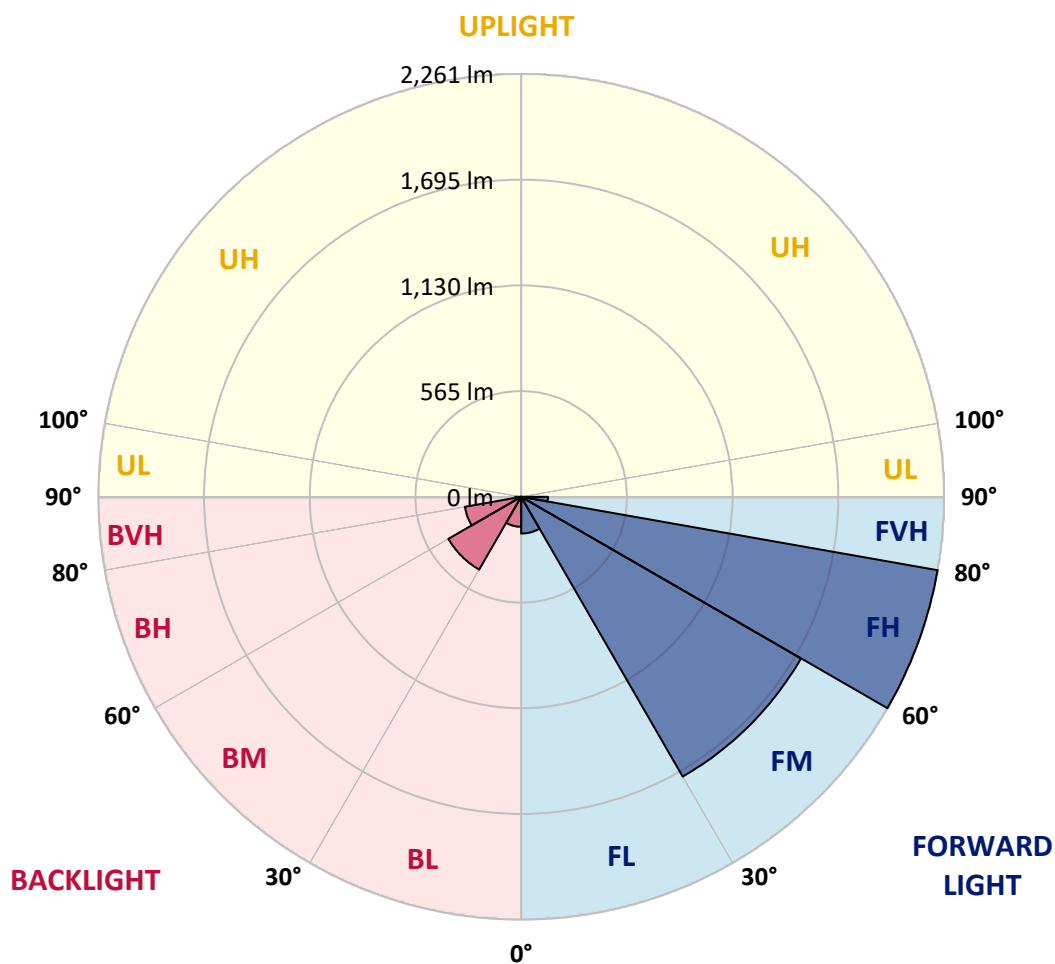
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.5	3.7			
FM	(30°-60°)	1727.3	32.8			
FH	(60°-80°)	2260.5	42.9			G2/5000
FVH	(80°-90°)	143.0	2.7			G2/225
BL	(0°-30°)	160.3	3.0	B1/500		
BM	(30°-60°)	449.1	8.5	B1/1000		
BH	(60°-80°)	305.7	5.8	B1/500		G1/500
BVH	(80°-90°)	31.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	117	117	117	117	117	117	117	117	117	117	117
2.5°	182	183	182	183	183	182	182	182	185	176	180
5°	144	145	145	145	145	145	146	149	146	147	147
7.5°	220	222	222	220	221	221	220	157	152	149	146
10°	225	227	227	223	224	225	225	224	222	215	214
12.5°	305	306	305	304	302	292	268	233	222	281	286
15°	327	326	324	319	316	311	305	355	349	302	296
17.5°	415	415	413	412	399	395	383	376	369	359	365
20°	503	498	454	430	415	460	459	446	457	420	419
22.5°	535	532	528	515	511	542	512	503	513	474	473
25°	660	659	641	631	600	584	595	587	559	558	599
27.5°	714	707	694	677	708	695	697	629	682	655	644
30°	853	856	833	841	834	772	752	771	768	747	814
32.5°	1027	1026	1001	956	895	883	895	878	872	868	888
35°	1219	1205	1119	1098	1064	1039	1029	986	1004	955	1022
37.5°	1312	1314	1281	1281	1245	1208	1162	1167	1128	1098	1145
40°	1450	1455	1424	1407	1391	1333	1302	1279	1278	1251	1299
42.5°	1517	1525	1497	1488	1499	1461	1411	1410	1416	1379	1435
45°	1586	1596	1567	1579	1567	1561	1494	1528	1545	1504	1565
47.5°	1667	1680	1669	1662	1650	1650	1601	1624	1649	1614	1678
50°	1768	1777	1765	1762	1744	1741	1709	1725	1745	1709	1785
52.5°	1902	1904	1896	1878	1851	1857	1838	1839	1847	1823	1907
55°	2071	2073	2072	2030	2055	2009	1978	1984	1980	1961	2041
57.5°	2282	2295	2301	2264	2287	2202	2184	2173	2187	2144	2242
60°	2618	2638	2628	2622	2604	2525	2502	2534	2519	2481	2598
62.5°	3049	3044	3069	3065	3070	2991	2937	3015	3041	3056	3145
65°	3160	3161	3193	3201	3240	3232	3195	3331	3375	3438	3611
67°	3022	3018	3056	3096	3158	3189	3177	3352	3438	3538	3715
67.5°	2979	2971	3012	3064	3128	3166	3157	3338	3428	3537	3710
70°	2698	2670	2722	2792	2850	2937	2941	3113	3238	3355	3516
72.5°	2338	2301	2348	2401	2444	2545	2551	2663	2791	2886	3035
75°	1856	1808	1852	1878	1894	1976	1983	2081	2175	2248	2363
77.5°	1148	1116	1152	1195	1249	1285	1305	1365	1468	1550	1612
80°	575	598	636	694	739	802	828	832	875	869	908
82.5°	400	425	479	516	530	550	582	572	543	538	534
85°	102	159	292	354	368	389	418	435	390	353	360
87.5°	28	34	100	148	160	118	153	183	119	79	83
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	117	117	117	117	117	117	117	117	117	117	117
2.5°	162	144	136	124	121	120	118	118	117	117	117
5°	150	166	180	184	176	131	127	120	119	119	120
7.5°	147	149	150	144	168	169	122	120	120	120	121
10°	214	159	200	207	212	247	244	185	178	182	188
12.5°	288	296	264	214	219	221	248	192	181	188	227
15°	295	294	308	345	300	291	310	266	264	248	290
17.5°	418	358	348	351	321	307	285	309	280	272	266
20°	434	398	380	443	482	441	419	426	401	386	383
22.5°	472	514	531	491	491	485	529	497	483	467	460
25°	615	547	600	643	622	606	573	584	539	538	518
27.5°	673	713	694	698	665	716	694	670	628	620	630
30°	822	781	799	813	798	795	772	738	708	686	683
32.5°	883	911	903	886	936	951	937	857	830	773	773
35°	1004	990	1060	1043	1023	1004	991	936	877	817	801
37.5°	1137	1152	1150	1117	1083	1048	1034	981	915	861	789
40°	1274	1246	1232	1203	1141	1110	1089	1059	958	897	792
42.5°	1402	1383	1317	1274	1229	1184	1125	1101	999	921	782
45°	1520	1487	1416	1361	1287	1251	1168	1123	1044	923	755
47.5°	1619	1585	1513	1420	1352	1300	1222	1183	1087	946	755
50°	1715	1676	1598	1467	1406	1319	1277	1222	1141	980	778
52.5°	1820	1773	1680	1531	1461	1376	1331	1285	1211	1027	816
55°	1950	1894	1773	1629	1529	1452	1409	1361	1284	1081	863
57.5°	2137	2058	1915	1783	1661	1595	1534	1468	1401	1176	940
60°	2457	2371	2187	2068	1935	1847	1750	1698	1595	1357	1067
62.5°	2989	2879	2705	2481	2291	2112	2011	1936	1783	1516	1230
65°	3384	3231	2998	2709	2481	2214	2116	1962	1779	1527	1277
67°	3475	3326	3026	2698	2446	2175	2041	1879	1668	1454	1232
67.5°	3473	3327	3011	2679	2426	2155	2011	1846	1631	1431	1218
70°	3274	3156	2815	2480	2216	1965	1776	1621	1417	1258	1073
72.5°	2787	2715	2402	2098	1854	1644	1500	1346	1162	1039	905
75°	2176	2074	1771	1534	1337	1197	1082	944	799	728	677
77.5°	1450	1350	1067	834	694	576	488	390	303	311	335
80°	788	708	510	368	300	243	204	156	114	137	156
82.5°	479	420	326	255	209	177	144	107	82	93	113
85°	333	294	233	183	149	119	93	69	65	71	81
87.5°	111	138	105	85	82	74	62	50	39	49	63
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	117	117	117	117	117	117	117	117	117	117	117
2.5°	118	119	124	127	127	124	144	142	173	175	183
5°	128	129	168	182	183	158	123	118	116	115	118
7.5°	145	169	153	110	114	114	116	115	116	137	188
10°	243	182	172	147	119	128	185	186	189	197	198
12.5°	214	187	176	177	244	262	253	193	196	201	235
15°	248	245	259	256	249	265	262	313	322	275	276
17.5°	254	256	315	323	317	347	328	324	331	326	310
20°	383	426	413	348	359	398	388	333	381	385	357
22.5°	401	439	451	488	486	408	420	439	399	381	416
25°	538	575	594	541	490	533	510	437	455	425	425
27.5°	669	615	633	609	625	538	512	542	451	459	468
30°	698	685	698	669	627	612	556	531	538	471	465
32.5°	747	724	700	648	642	597	558	548	498	473	469
35°	741	688	671	638	591	555	517	489	452	445	440
37.5°	722	640	593	561	521	487	433	414	401	388	382
40°	693	590	511	462	421	385	350	332	323	328	334
42.5°	642	532	423	367	324	295	272	264	261	266	276
45°	602	459	341	277	241	222	206	200	204	208	213
47.5°	584	403	273	209	181	171	161	156	158	161	165
50°	579	371	228	165	146	136	129	127	128	127	129
52.5°	580	371	207	145	128	120	114	112	109	108	109
55°	601	381	202	141	125	116	110	109	105	102	101
57.5°	665	417	214	149	130	122	116	115	111	106	104
60°	792	496	246	167	143	136	132	131	125	118	112
62.5°	925	583	285	186	158	156	157	155	147	132	121
65°	984	617	300	188	158	162	165	166	153	135	121
67°	966	593	285	176	148	152	153	154	141	126	113
67.5°	957	583	280	174	147	150	149	149	137	124	111
70°	864	515	247	161	137	133	125	125	116	109	102
72.5°	733	437	215	153	130	119	110	109	103	100	96
75°	560	340	189	145	123	110	100	101	95	94	92
77.5°	333	231	164	135	117	104	93	95	88	87	87
80°	166	154	136	117	102	92	81	81	76	75	78
82.5°	125	116	101	89	80	69	54	60	60	62	64
85°	93	83	72	63	58	52	42	46	47	51	53
87.5°	70	59	50	46	44	40	31	37	38	38	40
90°	0	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	117	117	117	117	117
2.5°	184	182	180	179	179
5°	116	113	113	113	112
7.5°	193	196	195	195	194
10°	198	197	198	197	198
12.5°	270	278	283	285	283
15°	285	284	285	286	285
17.5°	344	353	355	354	354
20°	339	347	348	353	348
22.5°	399	397	402	400	398
25°	419	401	445	448	445
27.5°	466	436	440	440	436
30°	484	471	474	478	477
32.5°	448	453	490	497	496
35°	441	448	443	449	469
37.5°	414	418	426	433	434
40°	361	377	389	394	398
42.5°	288	305	316	321	317
45°	224	235	244	247	244
47.5°	172	176	179	180	183
50°	132	132	133	131	131
52.5°	111	108	108	106	106
55°	101	99	98	96	96
57.5°	101	97	94	91	91
60°	105	98	92	89	88
62.5°	109	100	92	88	87
65°	107	99	92	88	87
67°	103	97	92	88	88
67.5°	102	97	92	88	87
70°	98	96	91	87	86
72.5°	94	92	87	83	82
75°	90	87	83	80	79
77.5°	85	81	77	73	71
80°	77	72	67	64	60
82.5°	65	64	58	54	50
85°	54	53	49	44	39
87.5°	41	42	39	34	24
90°	0	0	0	0	0

(END OF REPORT)