

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: P179240

Luminaire Tested: **UTLD-E02-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179240
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34324)
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-SL2-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3248.2 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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

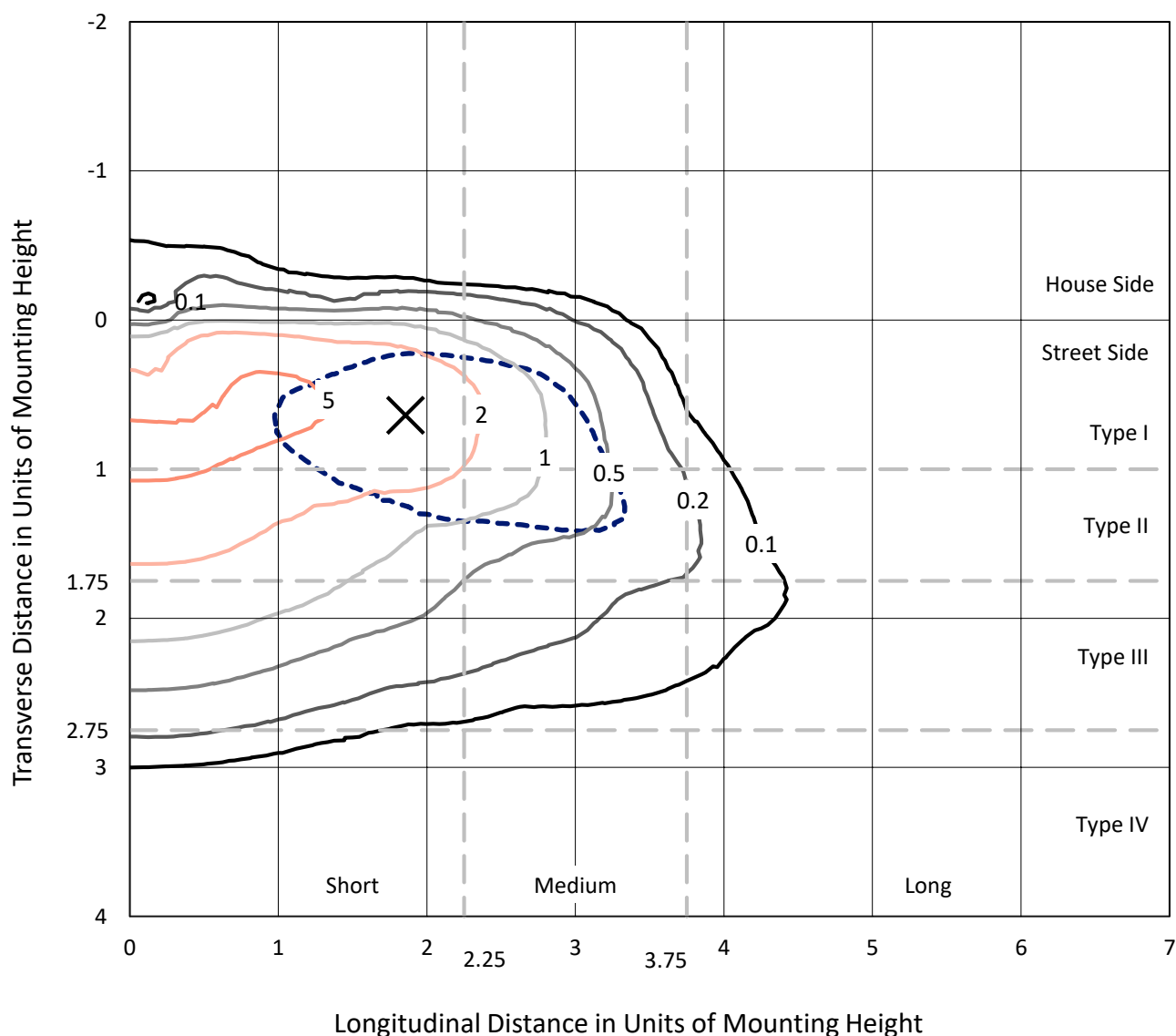


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

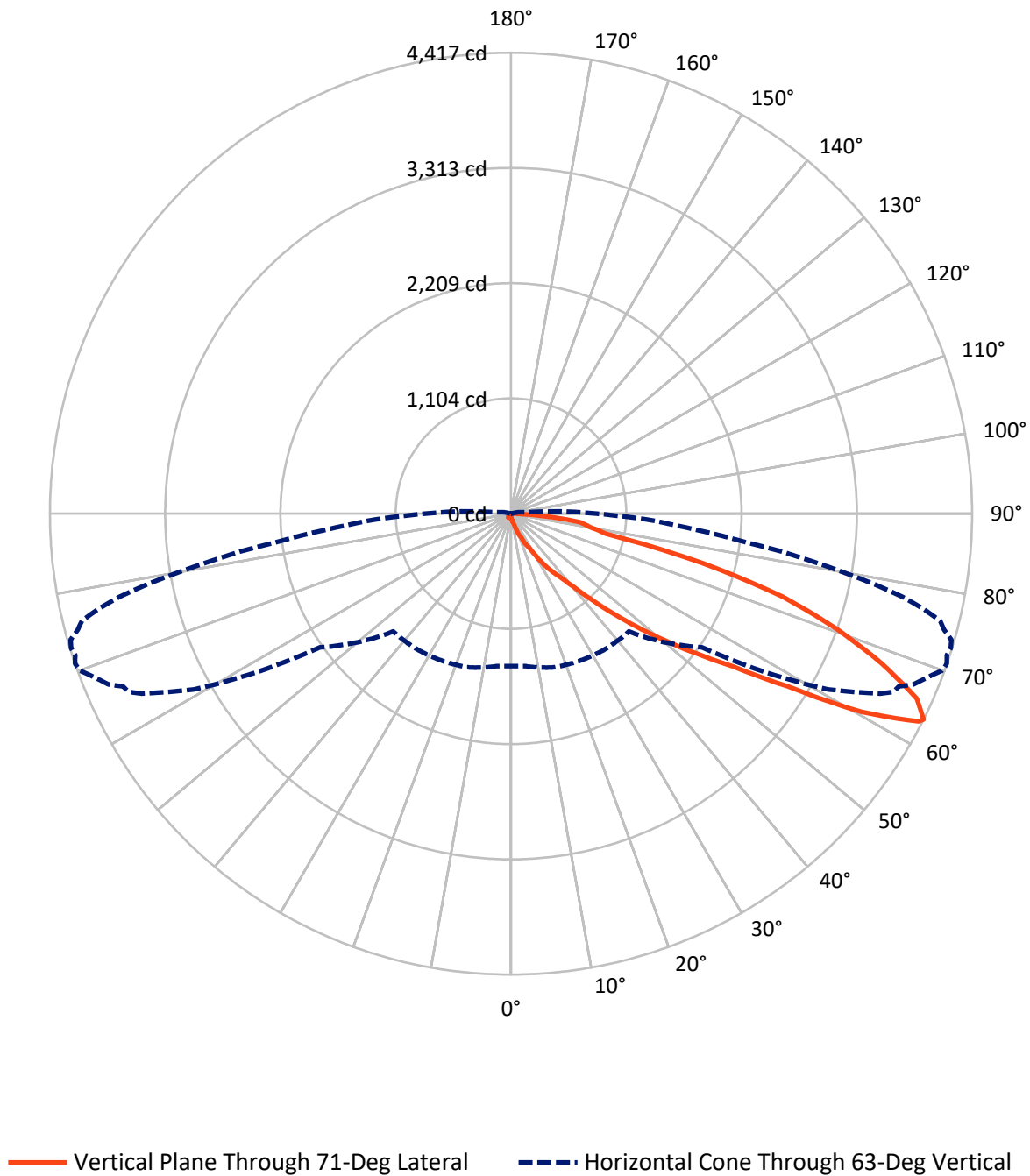


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
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Luminous Intensity Polar Plot



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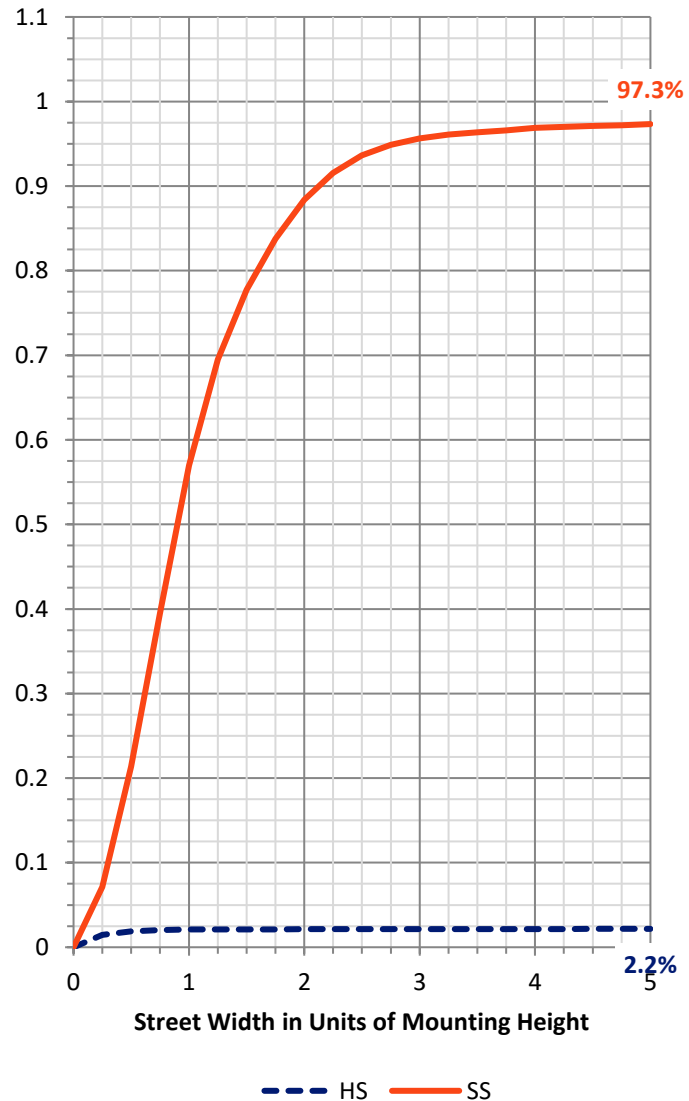
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	72.0	0.0	72.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3176.2	0.0	3176.2
	% Fixture	97.8	0.0	97.8
Total	Lumens	3248.2	0.0	3248.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	25.7	0.8
20°-30°	78.8	2.4
30°-40°	242.9	7.5
40°-50°	577.2	17.8
50°-60°	834.0	25.7
60°-70°	1032.0	31.8
70°-80°	391.8	12.1
80°-90°	61.1	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°	3248.2	100.0
0°-180°	3248.2	100.0

Coefficient of Utilization



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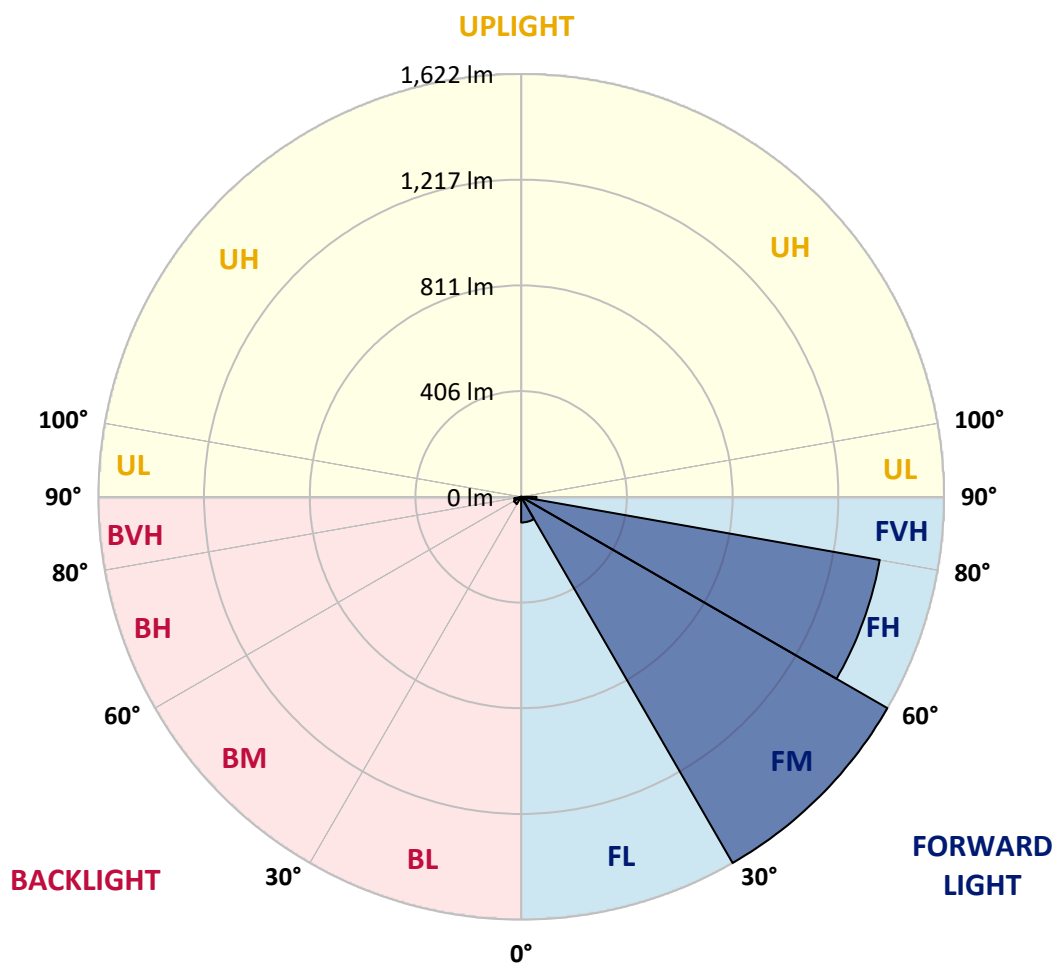
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.5	3.0			
FM	(30°-60°)	1622.1	49.9			
FH	(60°-80°)	1396.7	43.0			G1/1800
FVH	(80°-90°)	59.0	1.8			G1/100
BL	(0°-30°)	10.7	0.3	B0/110		
BM	(30°-60°)	32.0	1.0	B0/220		
BH	(60°-80°)	27.1	0.8	B0/110		G0/110
BVH	(80°-90°)	2.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	33	33	33	33	33	33	33	33	33	33	33
2.5°	62	61	59	59	58	58	57	56	56	56	55
5°	73	72	69	66	66	64	60	59	58	57	57
7.5°	119	118	116	113	108	74	66	65	64	63	62
10°	133	133	132	128	123	115	105	76	74	75	78
12.5°	179	174	177	172	145	136	139	129	127	126	98
15°	191	186	177	178	182	193	157	148	143	140	140
17.5°	210	210	211	211	203	207	204	181	180	176	175
20°	258	256	228	215	237	242	243	209	202	201	207
22.5°	273	271	266	271	243	273	314	313	305	301	276
25°	348	345	327	280	299	300	340	343	341	348	369
27.5°	402	406	365	335	315	358	433	442	442	432	433
30°	512	510	465	389	380	385	477	508	534	518	536
32.5°	736	726	657	518	455	476	572	609	603	594	610
35°	1060	1053	911	778	654	605	676	738	725	754	765
37.5°	1288	1270	1209	1075	954	873	903	879	876	896	894
40°	1456	1457	1436	1327	1239	1194	1198	1109	1103	1110	1096
42.5°	1538	1545	1562	1508	1472	1477	1517	1442	1439	1421	1367
45°	1588	1597	1649	1667	1656	1706	1815	1754	1759	1775	1698
47.5°	1594	1607	1675	1729	1773	1874	2041	2055	2070	2083	2026
50°	1535	1540	1626	1704	1769	1959	2213	2300	2327	2327	2279
52.5°	1428	1435	1517	1602	1664	1955	2324	2482	2542	2544	2475
55°	1382	1390	1452	1527	1558	1858	2392	2647	2710	2721	2680
57.5°	1382	1391	1441	1485	1501	1745	2433	2840	2911	2979	2977
60°	1444	1454	1494	1491	1476	1665	2415	3076	3191	3305	3436
62.5°	1480	1485	1540	1556	1553	1606	2274	3252	3430	3596	3880
63°	1460	1466	1527	1556	1582	1597	2235	3271	3472	3619	3934
65°	1352	1353	1418	1454	1630	1596	2026	3234	3480	3626	3977
67.5°	1071	1077	1122	1183	1346	1620	1741	2810	3059	3176	3567
70°	564	589	626	707	930	1376	1457	2070	2311	2485	2934
72.5°	171	159	207	303	473	952	1278	1462	1601	1774	2252
75°	77	79	90	129	207	511	1117	1201	1220	1279	1569
77.5°	44	45	53	73	108	255	846	1077	1062	1083	1136
80°	29	30	38	52	60	125	480	840	889	943	982
82.5°	16	16	24	42	39	60	189	550	638	694	811
85°	7	8	14	28	24	28	91	187	214	225	280
87.5°	2	2	4	10	10	13	27	84	89	96	117
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	33	33	33	33	33	33	33	33	33	33	33
2.5°	55	55	53	52	49	49	47	48	45	44	42
5°	56	56	56	56	55	55	55	55	55	55	54
7.5°	61	61	61	61	60	59	57	57	56	56	56
10°	78	77	75	74	73	72	70	71	69	70	68
12.5°	93	91	88	85	84	83	81	80	79	81	80
15°	145	144	145	140	114	113	114	112	110	107	103
17.5°	173	170	160	156	157	154	146	130	121	117	115
20°	222	223	225	225	221	216	211	210	204	183	175
22.5°	266	266	261	256	250	251	244	228	223	217	214
25°	382	376	362	357	352	339	322	313	310	306	293
27.5°	432	424	421	415	397	376	369	364	369	345	328
30°	523	522	519	506	484	467	468	463	430	405	389
32.5°	616	609	633	609	589	596	587	556	533	507	504
35°	762	762	742	716	719	724	681	649	634	623	601
37.5°	896	890	853	839	855	827	779	758	753	734	699
40°	1078	1042	1014	1011	1009	944	917	919	893	855	815
42.5°	1328	1270	1249	1251	1179	1127	1117	1092	1058	1015	979
45°	1616	1560	1561	1498	1407	1362	1352	1313	1271	1221	1169
47.5°	1929	1889	1909	1783	1703	1677	1613	1552	1503	1442	1377
50°	2211	2232	2188	2078	2020	1985	1910	1834	1771	1678	1590
52.5°	2475	2515	2446	2345	2353	2286	2228	2151	2067	1957	1864
55°	2739	2748	2691	2658	2656	2613	2587	2532	2419	2308	2266
57.5°	3072	3061	3021	3073	3077	3091	3119	3062	3028	2947	2882
60°	3553	3544	3562	3715	3746	3839	3859	3861	3832	3858	3700
62.5°	3978	4014	4131	4202	4275	4365	4385	4348	4367	4369	4246
63°	4040	4068	4189	4250	4320	4395	4417	4389	4406	4389	4296
65°	4067	4080	4222	4206	4295	4328	4272	4261	4324	4234	4217
67.5°	3668	3747	3842	3842	3911	3904	3829	3845	3846	3811	3802
70°	3067	3227	3247	3319	3367	3325	3309	3320	3236	3255	3171
72.5°	2440	2612	2644	2778	2792	2697	2720	2654	2562	2505	2389
75°	1776	1885	1980	2018	2019	1929	1890	1738	1603	1441	1398
77.5°	1240	1228	1264	1243	1102	1057	930	856	787	667	601
80°	1002	991	1008	963	902	851	760	692	615	563	483
82.5°	855	900	911	847	816	773	668	594	519	452	389
85°	326	389	384	400	401	379	334	265	210	170	138
87.5°	126	141	132	131	132	121	103	91	77	62	52
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	33	33	33	33	33	33	33	33	33	33	33
2.5°	41	39	39	37	37	36	36	35	35	34	34
5°	54	54	53	51	46	44	40	37	36	35	34
7.5°	56	56	55	55	54	53	52	49	44	40	37
10°	68	66	67	69	68	68	67	66	64	62	50
12.5°	79	78	76	72	70	69	69	68	67	66	64
15°	100	97	96	93	91	88	89	88	86	82	73
17.5°	111	109	106	107	105	99	89	86	83	80	77
20°	172	169	163	153	141	135	130	125	126	125	117
22.5°	201	183	172	164	161	161	157	159	146	142	125
25°	270	257	243	235	231	222	205	193	180	176	163
27.5°	323	311	311	298	276	259	242	232	216	205	191
30°	389	374	355	331	310	294	282	258	243	228	200
32.5°	486	458	434	412	393	361	342	322	291	259	245
35°	576	541	514	491	452	430	401	356	323	307	275
37.5°	664	631	605	560	525	488	440	407	378	338	294
40°	779	742	689	650	604	542	506	466	417	368	331
42.5°	930	871	828	779	695	655	606	535	473	429	368
45°	1112	1051	1005	909	848	787	713	630	568	499	447
47.5°	1305	1263	1165	1069	1009	918	833	747	661	600	506
50°	1546	1440	1332	1263	1166	1064	964	855	780	686	595
52.5°	1787	1641	1563	1461	1329	1212	1096	990	884	783	675
55°	2112	1966	1849	1702	1552	1418	1298	1167	1051	921	803
57.5°	2706	2545	2377	2157	1974	1812	1650	1495	1322	1182	1039
60°	3594	3425	3194	2937	2654	2402	2171	1939	1725	1553	1332
62.5°	4178	4004	3790	3485	3186	2852	2564	2242	2003	1756	1552
63°	4236	4051	3836	3547	3231	2918	2626	2275	2030	1782	1571
65°	4147	4032	3832	3590	3345	3040	2721	2376	2099	1847	1600
67.5°	3706	3653	3523	3391	3172	2960	2668	2364	2070	1831	1603
70°	3139	3066	2964	2911	2760	2580	2379	2141	1929	1694	1487
72.5°	2346	2202	2120	2031	1935	1809	1692	1558	1386	1261	1053
75°	1228	1068	959	831	728	623	567	529	471	407	360
77.5°	498	416	336	286	215	172	147	130	120	107	99
80°	418	334	269	204	150	109	81	63	54	47	43
82.5°	338	290	241	190	146	118	87	62	45	36	31
85°	108	95	74	62	51	43	36	29	26	24	22
87.5°	45	35	32	29	28	27	27	25	23	20	18
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	33	33	33	33	33	33	33	33	33	33	33
2.5°	33	33	32	33	31	29	28	27	26	26	26
5°	34	33	32	31	28	26	24	22	25	22	15
7.5°	35	34	32	31	28	25	23	14	9	9	10
10°	47	44	43	40	37	27	17	9	8	12	14
12.5°	51	48	45	42	35	29	14	12	15	12	13
15°	69	59	56	53	47	34	16	16	15	13	15
17.5°	76	65	62	60	46	22	18	19	15	17	14
20°	110	98	89	85	62	32	25	18	19	15	17
22.5°	126	117	108	106	70	35	29	25	18	18	16
25°	156	144	129	116	74	44	35	25	21	17	16
27.5°	177	157	144	136	80	46	34	28	21	16	14
30°	185	174	156	136	81	48	36	27	21	16	15
32.5°	226	201	175	160	87	51	35	27	20	15	14
35°	242	218	190	169	91	49	34	24	18	14	11
37.5°	268	233	206	180	92	46	31	23	16	12	10
40°	287	258	218	189	92	43	29	20	14	10	8
42.5°	332	281	241	207	94	39	26	17	12	7	6
45°	380	331	278	237	96	36	23	15	9	5	3
47.5°	448	384	324	272	97	33	21	13	7	3	2
50°	513	444	371	318	99	30	18	11	5	2	1
52.5°	589	504	430	355	100	28	16	9	3	1	0
55°	697	607	503	424	102	25	13	7	2	1	0
57.5°	912	790	662	548	112	22	11	5	1	1	0
60°	1174	1038	869	704	132	19	9	3	1	0	0
62.5°	1364	1189	988	810	146	16	8	2	1	1	0
63°	1395	1206	997	817	147	16	7	2	1	0	0
65°	1418	1222	1009	828	150	14	6	2	1	1	0
67.5°	1399	1187	980	807	152	12	5	2	1	1	1
70°	1269	1080	899	737	141	10	4	2	1	1	1
72.5°	912	813	647	532	108	9	4	3	1	2	2
75°	307	275	229	203	63	6	3	3	1	2	2
77.5°	88	82	71	65	32	5	3	3	1	3	3
80°	38	35	31	27	14	4	3	4	1	4	3
82.5°	28	25	22	18	8	4	4	5	1	4	4
85°	20	18	15	13	6	4	4	5	2	5	5
87.5°	16	14	12	9	6	4	4	6	2	6	5
90°	0	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	33	33	33
2.5°	26	27	27
5°	13	14	14
7.5°	11	12	12
10°	15	15	15
12.5°	14	15	15
15°	16	17	17
17.5°	14	18	19
20°	16	16	16
22.5°	16	17	17
25°	15	15	15
27.5°	15	15	15
30°	13	15	15
32.5°	13	13	13
35°	12	12	12
37.5°	10	11	11
40°	8	8	8
42.5°	5	5	5
45°	3	3	3
47.5°	2	2	2
50°	1	1	1
52.5°	1	1	1
55°	0	1	1
57.5°	0	0	1
60°	0	0	1
62.5°	0	0	1
63°	0	0	1
65°	1	0	1
67.5°	1	1	1
70°	1	1	1
72.5°	2	1	2
75°	2	2	2
77.5°	3	2	2
80°	3	3	2
82.5°	4	3	1
85°	4	4	2
87.5°	5	5	2
90°	0	0	0

(END OF REPORT)