

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: P179330

Luminaire Tested: **UTLD-E02-LED-E-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179330
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34326)
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-T2-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.5 lumens
Efficiency: N/A
Efficacy: 55.3 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

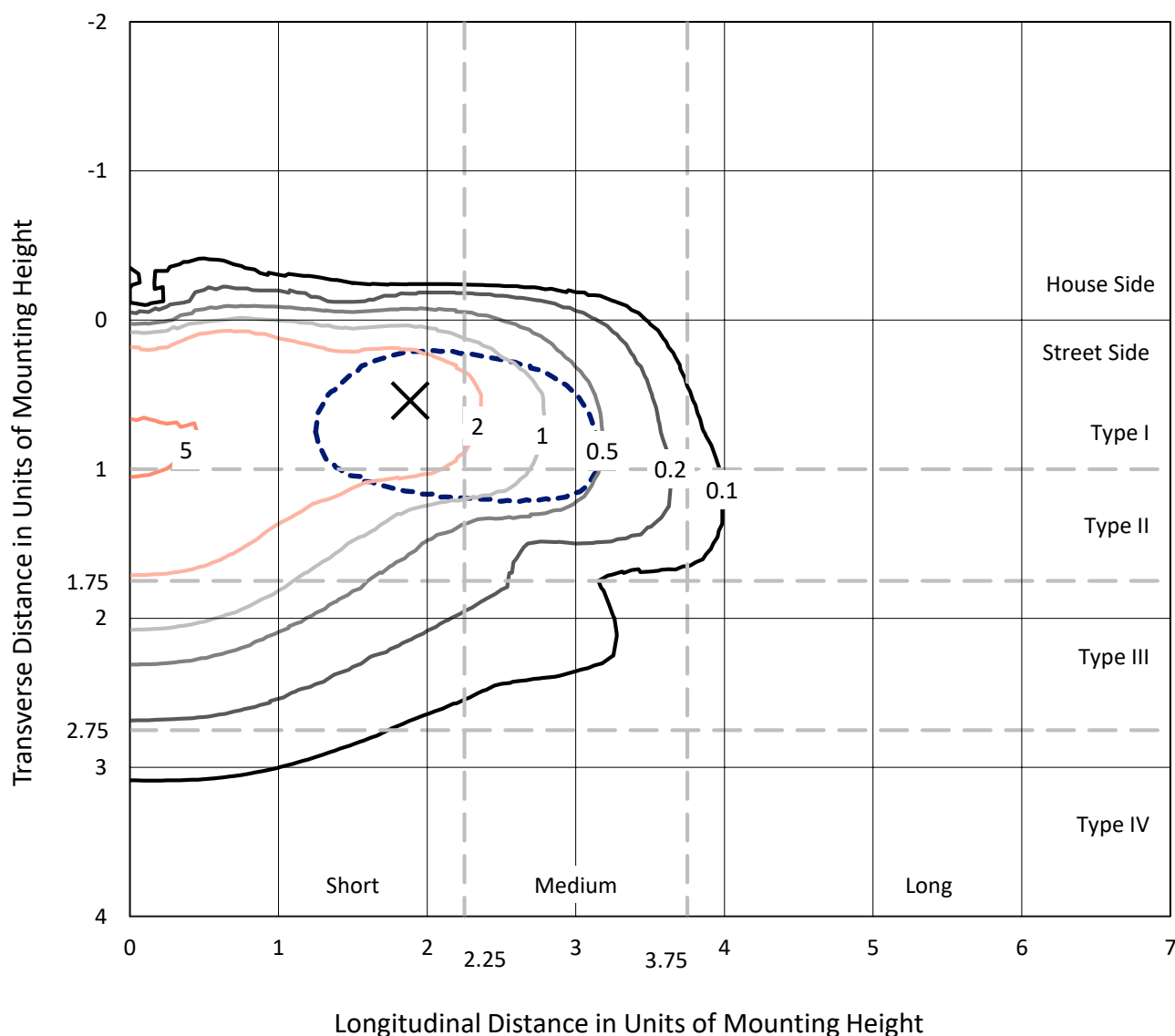


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

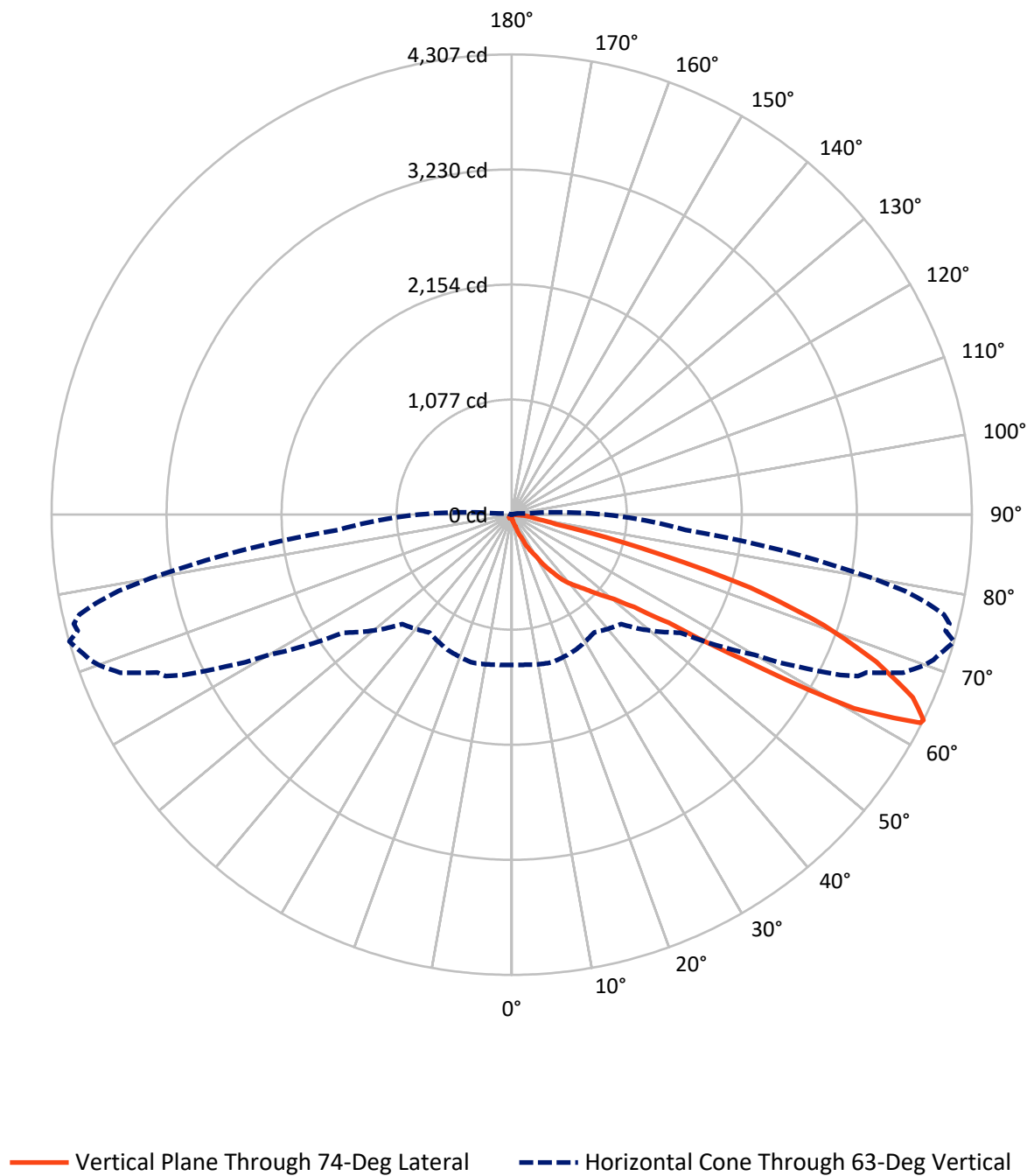


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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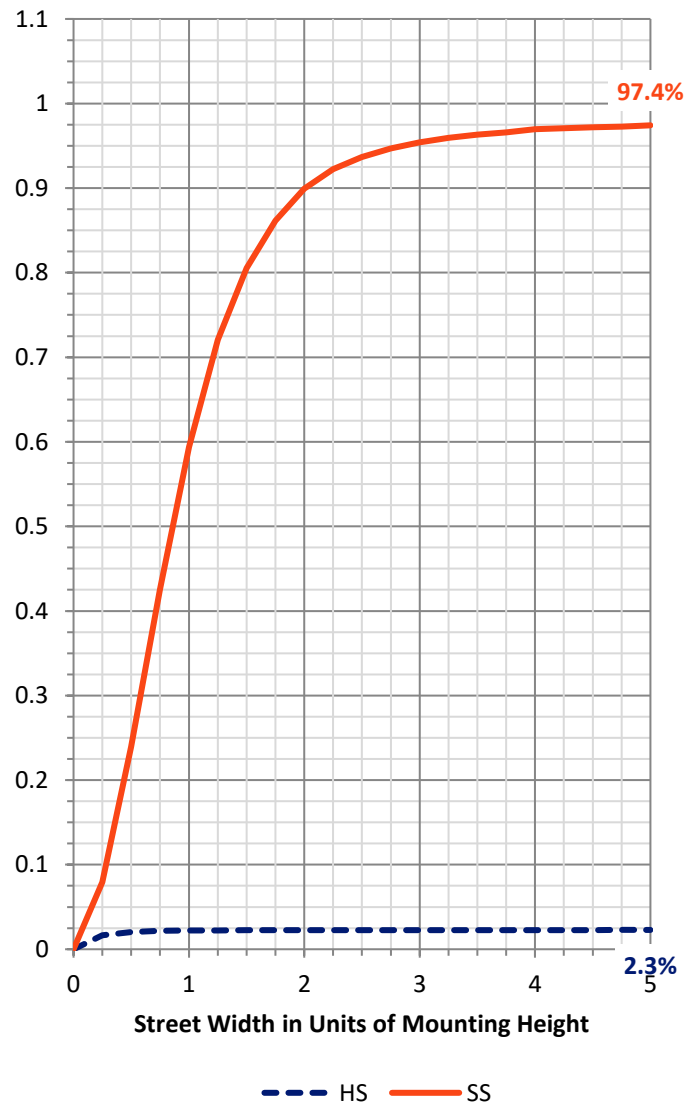
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	66.8	0.0	66.8
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2812.7	0.0	2812.7
	% Fixture	97.7	0.0	97.7
Total	Lumens	2879.5	0.0	2879.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.2
10°-20°	33.1	1.2
20°-30°	107.5	3.7
30°-40°	256.8	8.9
40°-50°	482.4	16.8
50°-60°	758.2	26.3
60°-70°	890.6	30.9
70°-80°	305.8	10.6
80°-90°	40.5	1.4
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°	2879.5	100.0
0°-180°	2879.5	100.0

Coefficient of Utilization



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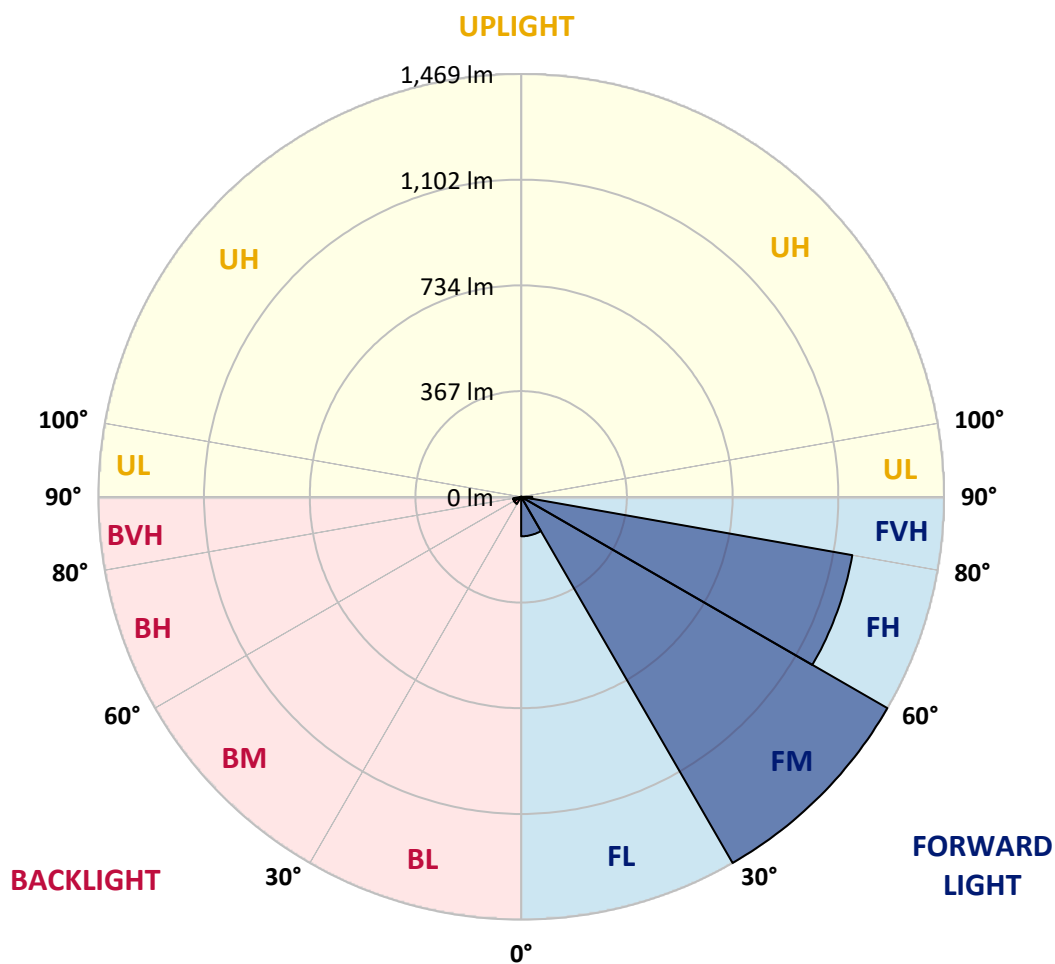
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.2	4.8			
FM	(30°-60°)	1468.8	51.0			
FH	(60°-80°)	1168.1	40.6			G1/1800
FVH	(80°-90°)	38.7	1.3			G1/100
BL	(0°-30°)	8.2	0.3	B0/110		
BM	(30°-60°)	28.6	1.0	B0/220		
BH	(60°-80°)	28.3	1.0	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	28	28	28	28	28	28	28	28	28	28	28
2.5°	55	54	52	50	49	47	46	44	44	43	44
5°	80	76	72	69	66	63	57	53	52	52	50
7.5°	151	145	141	135	124	94	70	65	64	63	61
10°	172	171	169	162	153	137	121	83	81	78	79
12.5°	247	244	246	233	214	175	159	142	138	135	124
15°	338	333	269	260	243	241	183	164	160	153	146
17.5°	358	361	356	335	298	267	261	208	202	199	191
20°	461	461	441	364	365	334	302	265	239	233	241
22.5°	476	478	472	478	392	395	398	376	367	356	342
25°	557	560	546	490	507	459	461	433	419	442	438
27.5°	633	635	555	554	536	553	577	552	545	535	516
30°	666	670	645	669	638	602	633	669	662	645	650
32.5°	809	811	797	720	718	719	765	740	731	711	714
35°	985	984	874	856	806	837	839	863	832	854	833
37.5°	1126	1120	1048	1029	963	936	955	938	917	935	928
40°	1250	1256	1223	1147	1109	1069	1064	1017	1037	1022	1020
42.5°	1348	1358	1338	1265	1212	1205	1184	1126	1158	1130	1134
45°	1469	1466	1429	1353	1317	1326	1339	1294	1296	1286	1263
47.5°	1584	1583	1560	1453	1408	1431	1506	1496	1459	1474	1421
50°	1682	1683	1656	1537	1480	1534	1680	1692	1674	1679	1617
52.5°	1716	1718	1706	1585	1526	1608	1821	1883	1901	1906	1838
55°	1682	1689	1686	1581	1525	1641	1944	2070	2117	2143	2102
57.5°	1618	1624	1636	1570	1515	1652	2053	2326	2410	2464	2478
60°	1543	1550	1586	1558	1500	1633	2111	2557	2707	2826	3014
62.5°	1441	1448	1478	1450	1388	1500	1981	2621	2830	3000	3350
63°	1406	1410	1433	1401	1345	1448	1925	2625	2847	3025	3421
65°	1106	1114	1140	1106	1094	1197	1606	2496	2802	2995	3482
67.5°	604	614	653	638	707	823	1065	1822	2241	2515	3070
70°	439	439	472	482	516	606	703	926	1170	1489	2198
72.5°	319	326	354	382	431	540	693	538	554	653	1157
75°	159	173	204	237	288	411	734	558	507	494	591
77.5°	37	38	62	122	147	236	581	682	614	581	520
80°	19	20	25	61	67	85	305	720	728	708	584
82.5°	10	10	15	26	26	30	87	438	607	689	674
85°	4	4	9	13	14	13	24	172	304	395	529
87.5°	1	1	3	5	6	7	11	32	53	73	122
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°	28	28	28	28	28	28	28	28	28	28	28
2.5°	43	43	43	42	42	42	42	41	41	41	38
5°	49	49	48	47	47	46	46	46	45	45	44
7.5°	60	59	58	56	55	54	54	52	51	50	49
10°	79	78	75	73	71	69	67	66	64	63	61
12.5°	108	94	91	88	84	81	79	77	76	73	74
15°	156	153	150	148	143	121	112	110	106	103	99
17.5°	189	186	179	168	166	162	157	152	128	116	112
20°	245	240	247	245	237	229	220	215	209	198	180
22.5°	307	307	298	292	282	269	268	257	236	228	225
25°	438	444	426	403	401	389	360	345	335	324	319
27.5°	520	501	484	483	471	434	418	410	415	389	373
30°	629	615	611	593	571	544	539	528	500	463	442
32.5°	704	711	724	704	678	671	668	638	600	575	551
35°	845	835	816	785	777	777	755	710	683	667	661
37.5°	926	911	883	868	872	865	814	789	777	773	734
40°	1013	984	959	963	972	922	894	880	884	852	803
42.5°	1111	1073	1060	1083	1036	999	977	985	968	922	890
45°	1224	1186	1194	1187	1129	1095	1098	1081	1049	1014	983
47.5°	1359	1340	1364	1294	1244	1233	1226	1192	1150	1122	1093
50°	1559	1569	1547	1464	1418	1415	1375	1325	1291	1244	1199
52.5°	1825	1854	1788	1722	1694	1673	1607	1550	1493	1436	1369
55°	2112	2169	2095	2065	2056	2069	1991	1933	1863	1784	1702
57.5°	2592	2607	2558	2600	2633	2638	2658	2615	2588	2565	2485
60°	3208	3234	3280	3428	3488	3573	3594	3650	3662	3682	3617
62.5°	3536	3593	3740	3914	3990	4071	4136	4187	4227	4292	4179
63°	3575	3633	3788	3951	4031	4114	4175	4215	4261	4307	4204
65°	3569	3633	3830	3917	4003	4049	4104	4107	4192	4127	4116
67.5°	3165	3334	3472	3566	3639	3675	3698	3726	3783	3681	3738
70°	2483	2699	2822	2938	3032	3059	3079	3167	3089	3098	3082
72.5°	1413	1748	1957	2082	2237	2265	2312	2386	2286	2337	2292
75°	758	889	1071	1199	1261	1321	1379	1335	1307	1246	1234
77.5°	546	560	575	564	548	544	519	471	458	420	401
80°	547	495	435	359	279	243	228	223	223	223	210
82.5°	619	554	477	382	296	233	193	187	183	183	171
85°	503	496	440	352	276	209	162	132	121	108	103
87.5°	122	127	111	97	81	64	56	45	38	35	33
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	85°	95°	105°	115°	125°	135°
0°	28	28	28	28	28	28	28	28	28	28	28
2.5°	38	37	36	36	35	30	26	23	21	20	19
5°	44	43	43	42	42	34	23	20	18	16	16
7.5°	48	47	47	46	45	41	23	19	15	16	8
10°	60	59	57	56	55	52	28	20	18	7	6
12.5°	73	70	68	66	62	53	28	21	11	9	10
15°	94	90	86	83	80	69	37	26	12	11	11
17.5°	107	102	98	97	95	69	36	18	14	14	11
20°	164	163	154	143	133	102	49	23	19	14	14
22.5°	215	189	176	160	151	122	50	25	22	17	13
25°	294	266	251	229	221	153	55	32	25	18	15
27.5°	358	338	329	318	291	190	64	34	25	20	15
30°	417	418	391	357	330	227	68	37	26	19	15
32.5°	548	516	470	440	412	261	74	40	25	19	15
35°	624	575	549	522	486	311	81	39	25	18	14
37.5°	686	649	623	584	546	349	85	36	24	17	12
40°	764	738	691	657	618	365	88	33	22	15	10
42.5°	855	817	773	741	675	415	97	31	20	13	9
45°	950	901	873	806	729	451	104	30	18	11	7
47.5°	1039	1009	948	863	828	507	102	28	16	9	5
50°	1162	1121	1038	990	933	552	99	27	14	8	4
52.5°	1334	1247	1182	1127	1031	615	97	25	12	6	2
55°	1612	1476	1396	1293	1188	689	92	22	11	5	2
57.5°	2286	2139	1967	1771	1584	862	90	20	9	3	1
60°	3481	3385	3132	2815	2550	1213	97	17	7	2	1
62.5°	4178	4090	3910	3681	3325	1581	109	14	5	2	1
63°	4223	4152	3975	3750	3429	1632	115	14	5	2	1
65°	4139	4077	3978	3803	3594	1780	133	13	4	2	1
67.5°	3717	3651	3583	3510	3361	1828	146	12	3	2	1
70°	3074	3014	2940	2908	2827	1709	153	11	3	2	1
72.5°	2244	2175	2115	2028	1951	1293	113	11	2	2	1
75°	1140	1068	929	864	797	542	46	9	2	2	1
77.5°	333	299	242	196	149	97	17	6	2	2	1
80°	197	167	138	109	88	47	10	4	2	3	1
82.5°	161	144	119	98	77	35	7	4	3	3	1
85°	93	84	71	57	48	25	5	4	3	4	1
87.5°	34	31	29	28	26	18	5	5	4	5	1
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	28	28	28	28	28
2.5°	18	19	19	19	19
5°	17	17	15	12	12
7.5°	7	8	8	8	8
10°	6	10	11	11	11
12.5°	9	9	10	10	11
15°	9	11	12	12	12
17.5°	12	10	11	11	12
20°	11	12	12	12	12
22.5°	13	12	11	12	12
25°	12	12	11	11	11
27.5°	12	11	11	11	11
30°	12	11	10	10	10
32.5°	11	10	10	9	9
35°	10	8	9	9	9
37.5°	9	7	7	8	7
40°	7	6	5	6	6
42.5°	5	4	4	4	4
45°	4	2	2	2	2
47.5°	2	1	1	1	1
50°	1	0	0	0	0
52.5°	1	0	0	0	0
55°	0	0	0	0	0
57.5°	0	0	0	0	0
60°	0	0	0	0	0
62.5°	0	0	0	0	0
63°	0	0	0	0	0
65°	0	0	0	0	0
67.5°	0	0	0	0	0
70°	0	0	0	0	0
72.5°	1	1	1	0	0
75°	1	1	1	1	1
77.5°	2	2	2	1	1
80°	3	2	2	1	1
82.5°	3	3	3	2	1
85°	4	3	3	3	1
87.5°	5	4	4	3	1
90°	0	0	0	0	0

(END OF REPORT)