

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: McGRAW-EDISON

Report Number: P198373

Luminaire Tested: **TT-C3-LED-E1-DL-CG-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198373
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-DL-CG-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6124 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 83.9
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: 25 FT

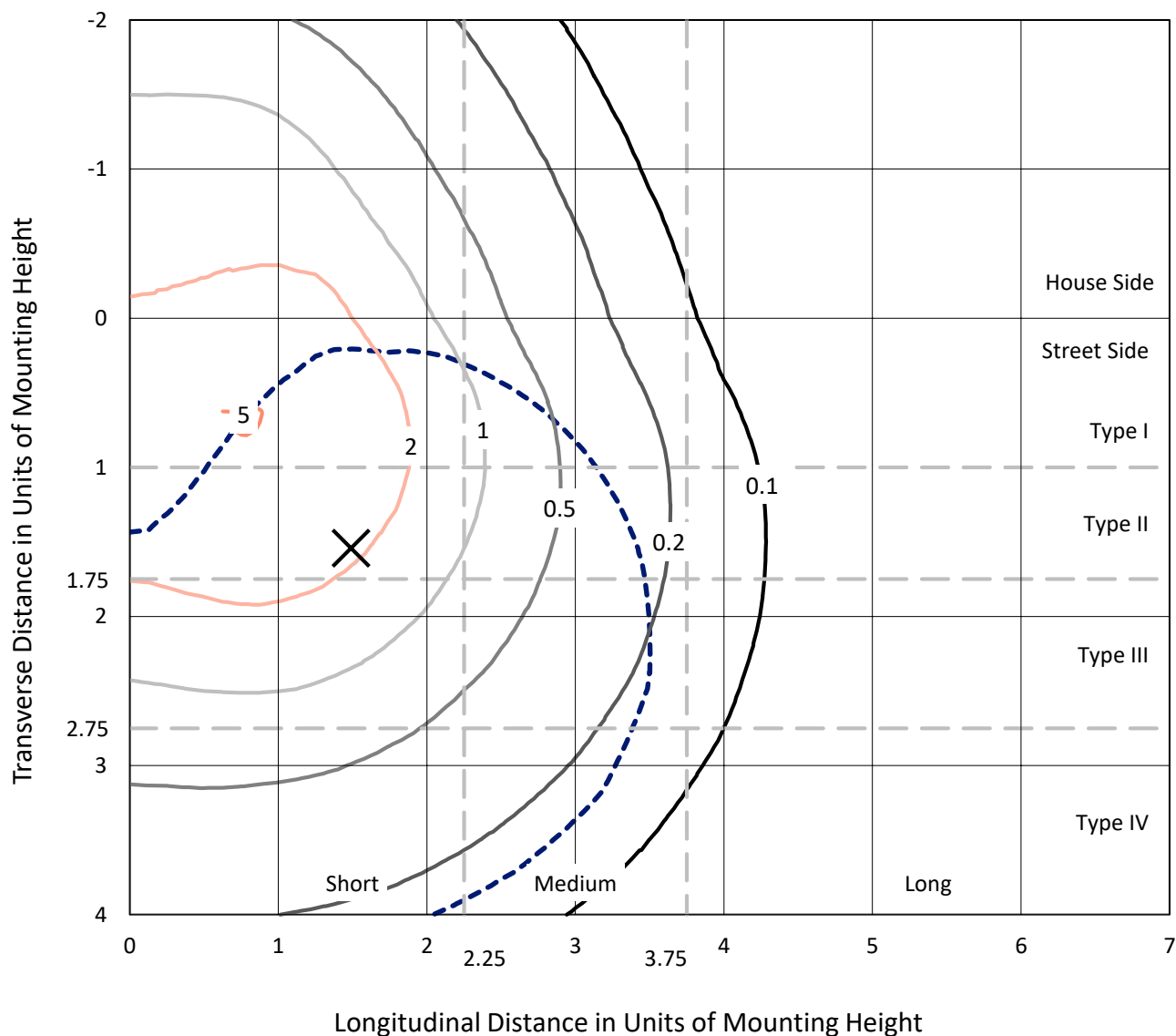


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

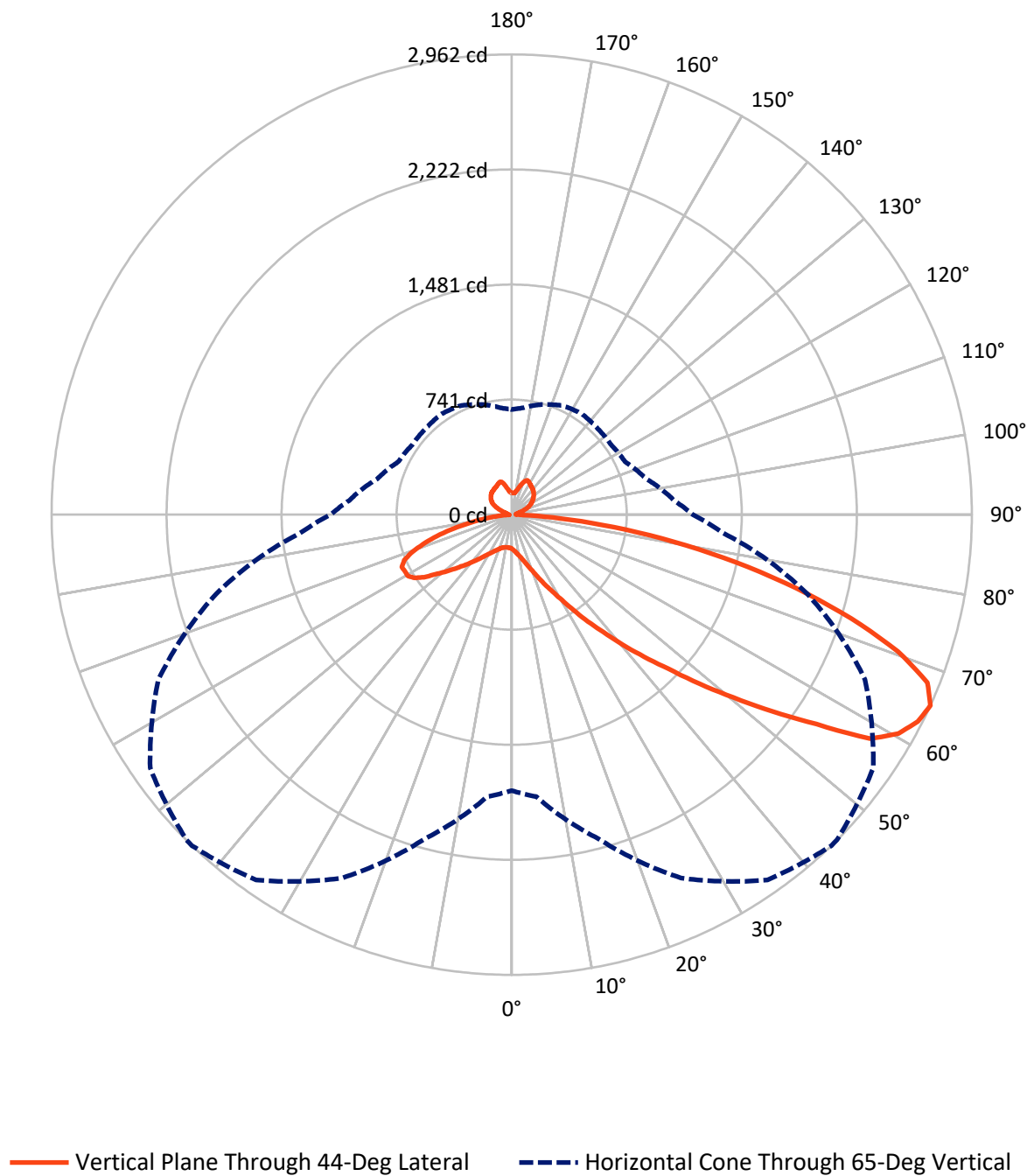


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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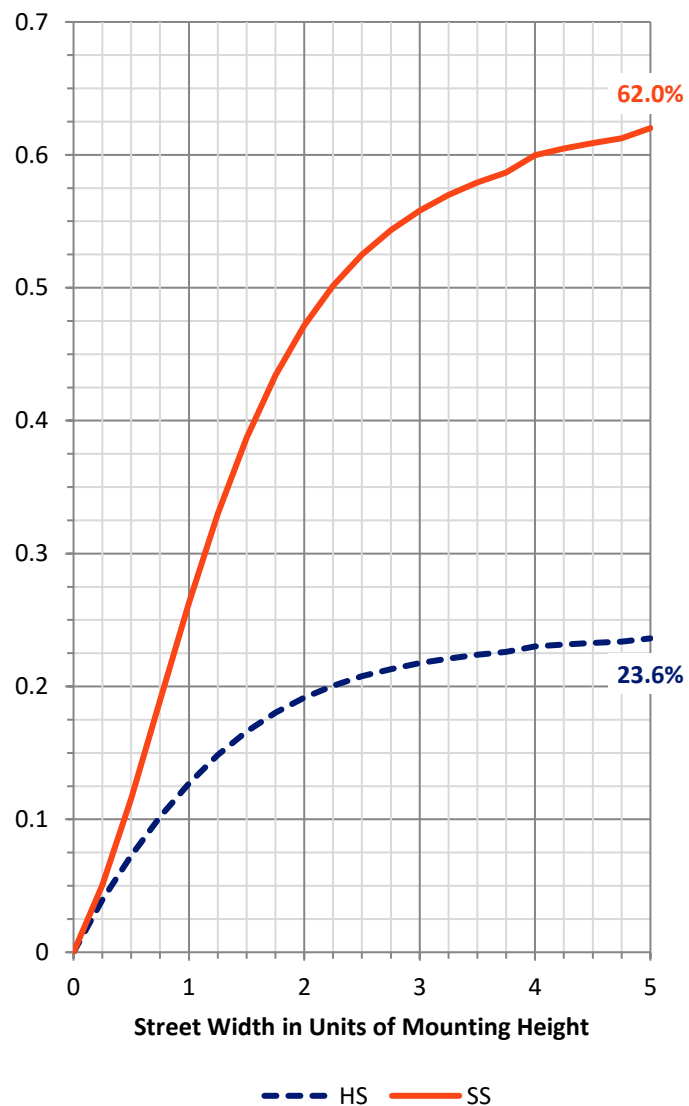
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1461.0	387.3	1848.3
	% Fixture	23.9	6.3	30.2
Street Side	Lumens	3863.1	412.6	4275.7
	% Fixture	63.1	6.7	69.8
Total	Lumens	5324.0	800.0	6124.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	0.4
10°-20°	77.5	1.3
20°-30°	173.6	2.8
30°-40°	354.2	5.8
40°-50°	681.0	11.1
50°-60°	1183.0	19.3
60°-70°	1515.2	24.7
70°-80°	1085.0	17.7
80°-90°	232.5	3.8
90°-100°	36.3	0.6
100°-110°	55.2	0.9
110°-120°	110.8	1.8
120°-130°	144.2	2.4
130°-140°	148.0	2.4
140°-150°	133.4	2.2
150°-160°	102.6	1.7
160°-170°	55.1	0.9
170°-180°	14.3	0.2
0°-90°	5324.0	86.9
0°-180°	6124.0	100.0

Coefficient of Utilization



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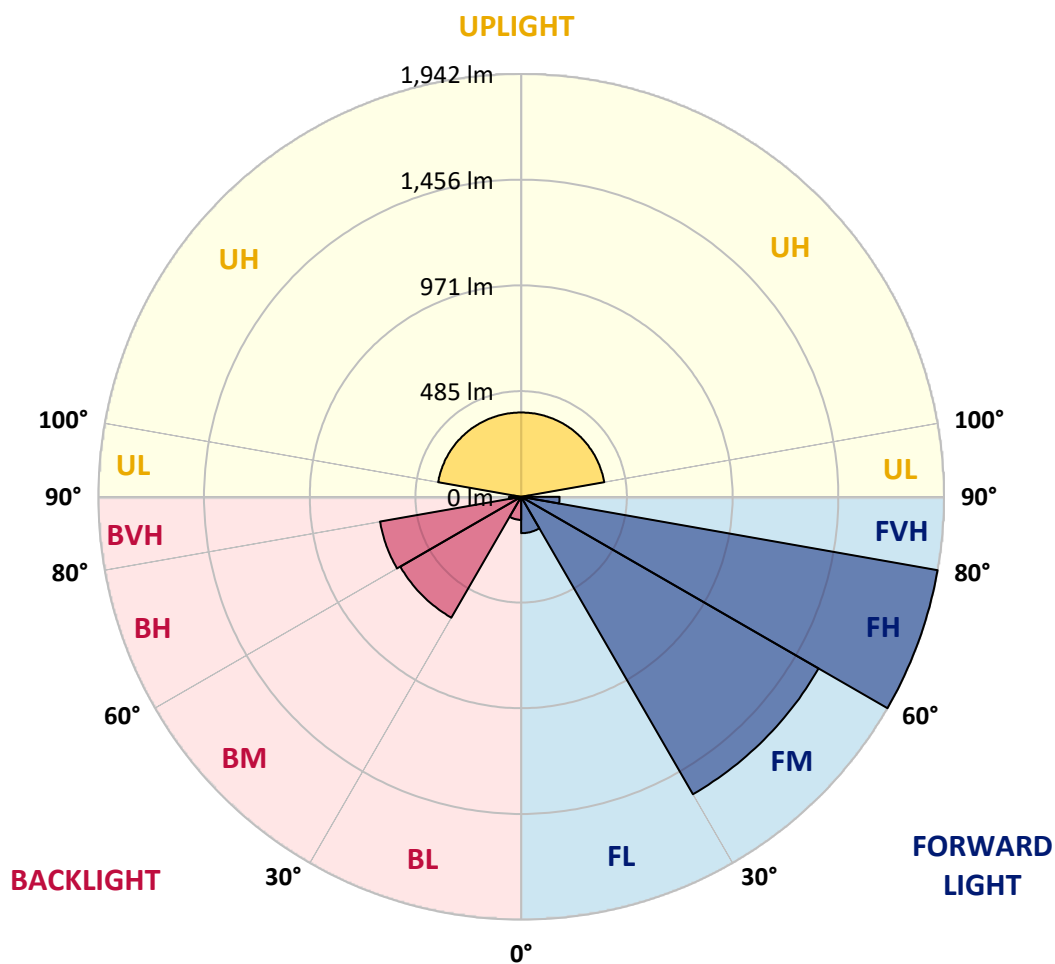
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.2	2.7			
FM	(30°-60°)	1577.3	25.8			
FH	(60°-80°)	1941.9	31.7			G2/5000
FVH	(80°-90°)	176.7	2.9			G2/225
BL	(0°-30°)	105.9	1.7	B0/110		
BM	(30°-60°)	640.9	10.5	B1/1000		
BH	(60°-80°)	658.3	10.7	B2/1000		G2/1000
BVH	(80°-90°)	55.8	0.9			G1/100
UL	(90°-100°)	36.3	0.6		U2/50	
UH	(100°-180°)	387.3	6.3		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	219	219	219	219	219	219	219	219	219	219	219
2.5°	231	231	231	230	229	228	228	227	226	225	223
5°	245	244	244	242	241	239	239	237	234	231	228
7.5°	260	261	260	258	255	253	252	248	244	239	234
10°	278	279	279	277	274	269	269	263	257	251	242
12.5°	304	303	302	302	296	290	292	284	274	265	254
15°	328	330	332	327	323	317	316	306	295	282	268
17.5°	363	365	364	362	357	350	348	336	321	303	284
20°	408	409	405	403	399	390	387	373	353	328	305
22.5°	458	455	454	452	451	441	440	419	390	362	329
25°	501	504	506	509	508	498	498	474	439	401	359
27.5°	551	556	562	569	568	561	565	542	495	449	395
30°	605	613	623	640	645	638	638	609	563	501	435
32.5°	677	681	690	717	732	732	731	699	643	565	483
35°	752	753	777	810	829	844	837	806	743	647	544
37.5°	829	830	864	903	946	958	964	936	855	738	611
40°	906	919	959	1013	1077	1101	1098	1073	976	838	684
42.5°	984	1011	1052	1135	1211	1250	1252	1230	1128	969	779
45°	1077	1094	1157	1253	1362	1413	1418	1408	1312	1129	893
47.5°	1174	1190	1266	1387	1523	1626	1635	1626	1507	1264	995
50°	1280	1286	1377	1539	1736	1849	1855	1859	1698	1438	1094
52.5°	1379	1381	1498	1710	1962	2103	2110	2102	1975	1656	1280
55°	1477	1479	1627	1906	2205	2380	2424	2428	2198	1796	1330
57.5°	1568	1577	1779	2101	2479	2720	2717	2650	2329	1849	1341
60°	1650	1679	1924	2320	2701	2860	2876	2729	2375	1872	1332
62.5°	1720	1752	2061	2494	2840	2934	2928	2761	2440	1952	1391
65°	1776	1822	2159	2580	2870	2962	2961	2841	2509	1969	1367
67.5°	1807	1878	2174	2582	2847	2886	2872	2723	2380	1860	1251
70°	1824	1870	2138	2468	2649	2638	2641	2460	2158	1678	1112
72.5°	1762	1800	1988	2222	2341	2285	2311	2145	1876	1431	937
75°	1608	1626	1717	1866	1930	1892	1892	1772	1514	1174	757
77.5°	1346	1352	1387	1467	1485	1474	1471	1368	1162	897	566
80°	962	984	999	1034	1072	1056	1035	952	813	614	390
82.5°	597	599	614	637	643	664	661	595	491	367	228
85°	279	274	288	304	313	312	319	287	227	168	104
87.5°	44	62	66	65	72	73	76	69	47	33	25
90°	36	36	36	34	29	26	26	28	32	34	34
92.5°	40	39	38	34	29	27	27	28	32	35	36
95°	44	43	41	36	32	30	30	30	34	37	39
97.5°	42	42	40	37	35	33	33	33	34	36	36
100°	45	45	44	40	38	36	36	36	38	38	37
102.5°	51	51	49	46	44	42	42	43	44	42	41
105°	60	60	57	54	53	52	52	54	53	49	48
107.5°	72	72	70	67	66	68	68	68	66	60	59
110°	86	86	89	85	86	87	87	84	84	78	74

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	101	102	108	107	110	107	107	102	105	100	95
115°	121	122	128	128	129	124	124	121	125	123	116
117.5°	140	141	144	141	141	136	136	138	141	139	133
120°	152	153	155	149	149	147	147	150	153	148	145
122.5°	161	162	164	154	155	158	158	159	162	155	153
125°	169	169	172	163	165	168	168	167	168	163	160
127.5°	177	177	181	171	176	178	178	176	175	173	166
130°	187	188	191	179	186	186	186	183	183	184	171
132.5°	198	199	201	186	193	195	195	190	192	192	179
135°	210	210	209	192	199	201	201	196	201	199	185
137.5°	221	219	213	197	205	208	208	203	210	204	191
140°	229	226	216	200	207	212	213	212	217	209	195
142.5°	235	231	218	201	208	217	218	220	223	211	198
145°	235	230	218	202	211	221	223	230	227	211	201
147.5°	230	227	219	207	216	227	229	239	229	212	204
150°	224	221	220	214	222	233	235	242	232	214	210
152.5°	216	214	221	220	230	240	241	242	235	219	215
155°	208	207	219	224	237	242	243	238	234	224	220
157.5°	203	203	216	224	234	234	235	228	229	226	222
160°	199	198	210	213	219	218	219	215	219	221	218
162.5°	185	184	193	193	198	197	198	196	200	204	207
165°	169	167	173	173	176	176	177	176	181	185	190
167.5°	154	152	156	155	159	159	159	160	165	168	172
170°	142	141	145	144	147	147	147	148	152	155	159
172.5°	137	135	139	138	141	141	141	141	145	146	149
175°	136	134	137	137	139	139	139	138	141	141	143
177.5°	137	136	139	138	140	139	139	138	140	140	141
180°	140	140	140	140	140	140	140	140	140	140	140

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	219	219	219	219	219	219	219	219	219	219	219
2.5°	222	222	220	218	216	215	214	213	213	212	212
5°	227	225	222	219	216	214	212	211	209	208	208
7.5°	231	229	224	220	216	213	210	208	207	206	206
10°	239	235	229	222	217	213	210	208	207	206	206
12.5°	250	244	234	227	220	215	212	210	208	208	207
15°	262	255	243	232	224	219	215	214	212	212	212
17.5°	276	268	253	240	231	225	221	219	218	219	220
20°	294	283	264	250	239	233	230	227	227	229	229
22.5°	315	302	279	262	251	243	241	239	238	240	240
25°	337	322	295	276	263	256	254	252	253	254	251
27.5°	371	350	315	293	278	271	268	267	268	269	267
30°	403	378	339	313	294	287	284	284	285	285	285
32.5°	447	416	366	335	316	307	306	306	304	305	304
35°	499	462	403	365	343	333	330	328	328	328	328
37.5°	555	510	441	399	374	362	356	353	354	354	352
40°	618	566	486	434	411	393	386	383	382	380	375
42.5°	702	636	541	479	445	432	419	413	408	407	399
45°	801	730	612	543	498	469	456	446	437	434	428
47.5°	883	797	675	598	548	518	497	482	470	463	465
50°	975	879	747	650	601	569	549	524	506	495	499
52.5°	1126	1019	847	740	656	624	598	569	545	530	538
55°	1168	1056	895	797	732	697	658	622	588	568	568
57.5°	1166	1053	899	813	775	750	721	676	632	603	601
60°	1151	1038	889	802	773	778	766	728	676	636	630
62.5°	1190	1075	915	813	771	776	786	764	713	663	657
65°	1165	1049	894	805	782	783	790	774	733	687	677
67.5°	1063	961	823	746	731	749	771	766	731	700	688
70°	934	844	726	662	651	677	714	721	711	691	687
72.5°	791	712	612	564	560	580	617	641	648	657	657
75°	635	573	487	454	454	476	506	537	556	580	587
77.5°	482	428	367	339	339	359	382	407	439	472	467
80°	330	295	251	237	234	245	265	282	310	332	345
82.5°	189	177	151	139	138	152	166	168	187	200	204
85°	90	79	74	66	67	70	75	79	84	89	89
87.5°	20	19	17	18	18	16	18	17	19	20	18
90°	34	34	34	32	27	21	25	30	33	34	34
92.5°	36	35	33	31	27	23	25	29	34	36	36
95°	38	38	35	33	29	26	27	31	34	35	36
97.5°	36	35	35	34	30	25	26	30	33	35	35
100°	37	37	38	38	33	27	28	32	35	36	36
102.5°	41	42	43	45	39	32	33	35	38	40	41
105°	49	49	52	54	48	39	38	41	44	48	49
107.5°	60	61	65	65	58	50	47	50	54	60	61
110°	75	77	78	75	71	65	60	62	67	73	74

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	94	94	91	86	84	82	77	80	85	87	87
115°	113	111	104	100	99	102	99	103	106	102	102
117.5°	129	128	121	117	116	120	121	125	125	120	120
120°	142	142	137	134	134	137	137	139	139	134	136
122.5°	150	153	151	148	149	149	145	148	149	145	146
125°	158	162	162	159	160	159	149	154	156	154	154
127.5°	163	169	170	168	168	169	154	158	163	160	161
130°	169	176	178	174	175	175	159	164	169	164	167
132.5°	176	182	186	181	183	181	165	171	176	171	174
135°	184	190	195	190	191	187	170	177	184	179	179
137.5°	190	196	204	200	199	191	175	182	192	187	187
140°	195	201	213	212	206	195	180	186	200	195	196
142.5°	198	204	220	222	212	197	184	190	205	204	205
145°	202	208	225	230	216	199	187	193	208	211	214
147.5°	206	212	230	236	219	202	191	195	212	220	225
150°	211	216	231	235	219	205	194	199	215	227	233
152.5°	216	220	229	230	220	208	201	205	219	232	239
155°	219	221	224	222	220	213	208	212	224	234	240
157.5°	219	219	216	213	216	219	215	220	229	232	235
160°	215	214	210	208	213	223	224	228	233	229	232
162.5°	207	207	204	204	209	221	227	231	230	224	226
165°	192	194	196	198	203	212	216	219	220	215	217
167.5°	174	177	181	184	189	195	196	199	200	197	200
170°	160	163	166	168	172	177	178	180	181	178	181
172.5°	151	153	155	156	159	162	162	164	165	163	166
175°	144	146	147	148	149	151	151	152	153	151	153
177.5°	141	142	142	142	143	144	143	144	145	143	145
180°	140	140	140	140	140	140	140	140	140	140	140

(END OF REPORT)