

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: P198372

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198372
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-MS/DIM-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5777.9 lumens
Efficiency: N/A
Efficacy: 68.9 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



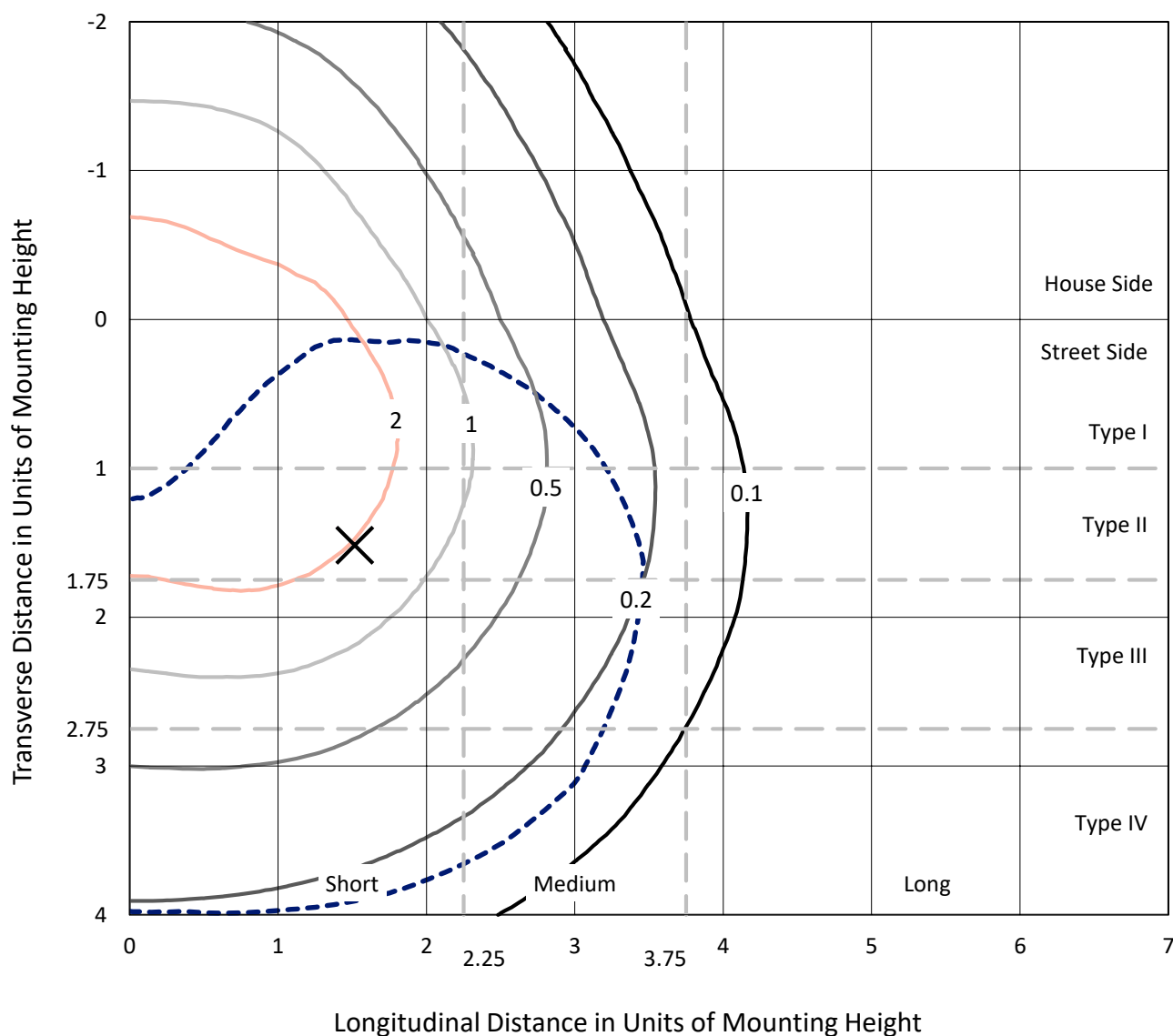
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

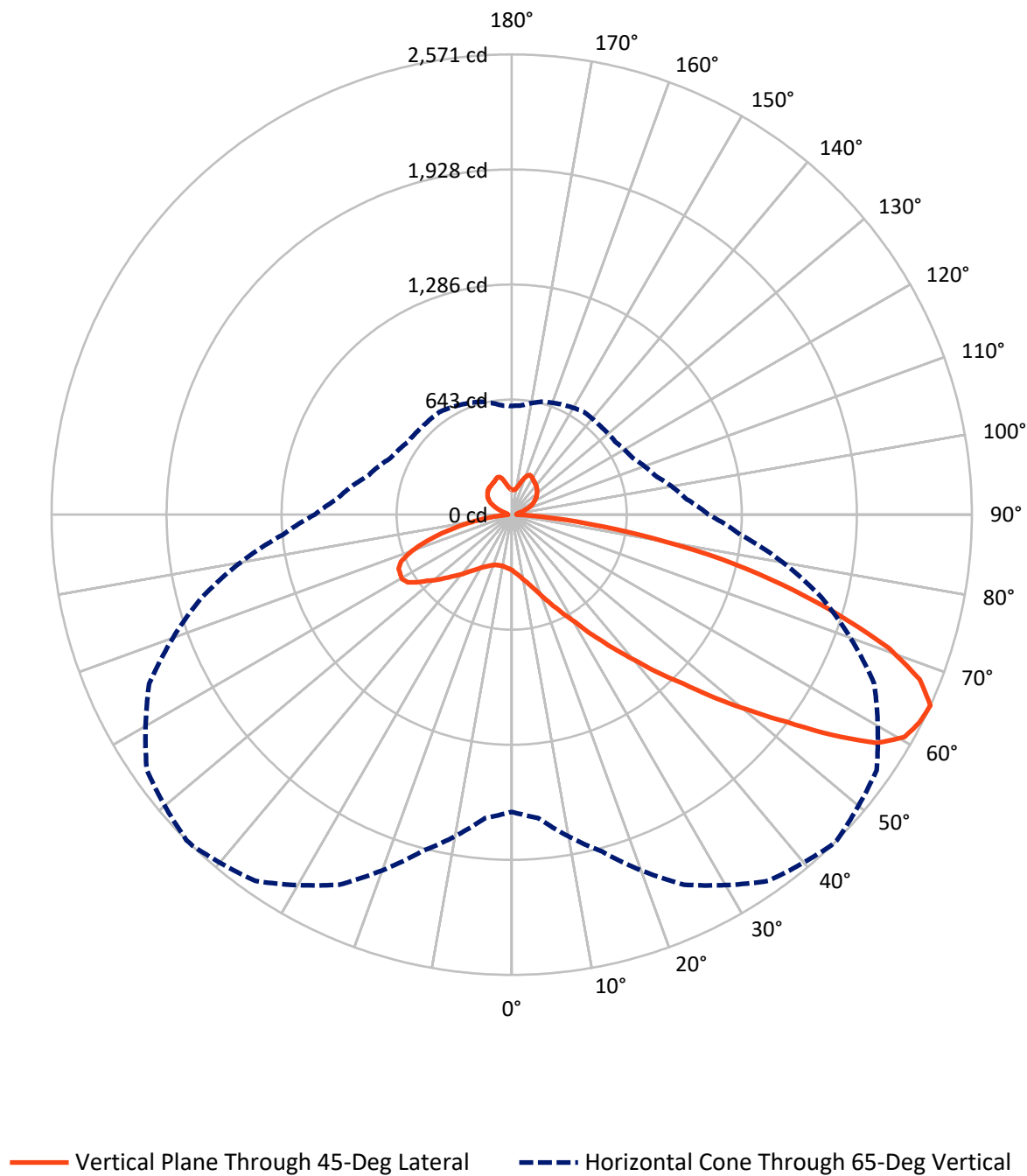


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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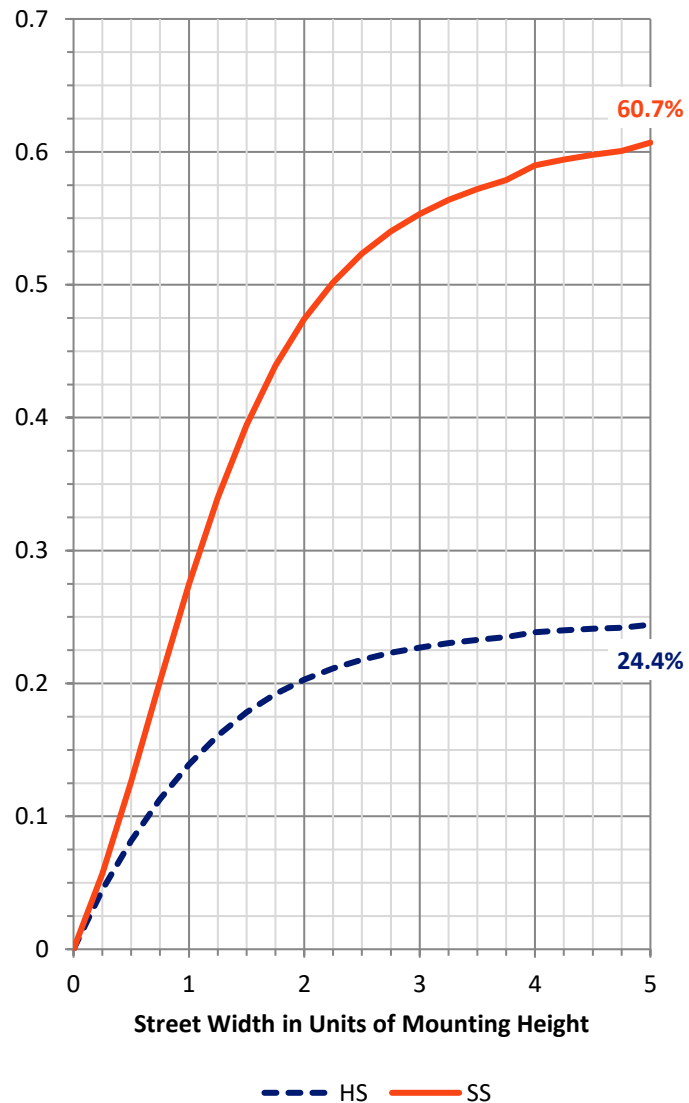
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1426.2	387.3	1813.6
	% Fixture	24.7	6.7	31.4
Street Side	Lumens	3551.7	412.6	3964.3
	% Fixture	61.5	7.1	68.6
Total	Lumens	4977.9	800.0	5777.9
	% Fixture	86.2	13.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	0.5
10°-20°	101.8	1.8
20°-30°	206.7	3.6
30°-40°	380.4	6.6
40°-50°	673.8	11.7
50°-60°	1105.3	19.1
60°-70°	1358.1	23.5
70°-80°	934.4	16.2
80°-90°	186.7	3.2
90°-100°	36.3	0.6
100°-110°	55.2	1.0
110°-120°	110.8	1.9
120°-130°	144.2	2.5
130°-140°	148.0	2.6
140°-150°	133.4	2.3
150°-160°	102.6	1.8
160°-170°	55.1	1.0
170°-180°	14.3	0.2
0°-90°	4977.9	86.2
0°-180°	5777.9	100.0

Coefficient of Utilization



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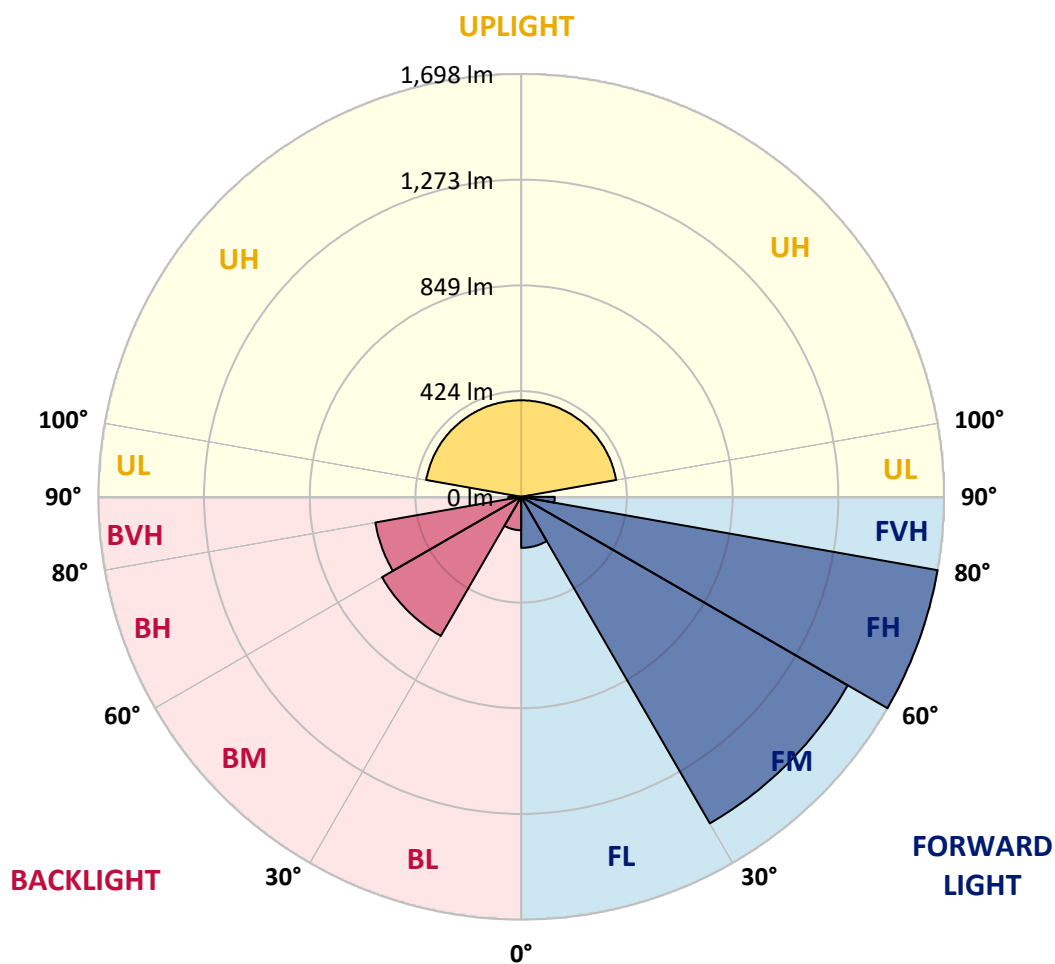
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.1	3.5			
FM	(30°-60°)	1514.2	26.2			
FH	(60°-80°)	1697.7	29.4			G1/1800
FVH	(80°-90°)	134.7	2.3			G2/225
BL	(0°-30°)	134.2	2.3	B1/500		
BM	(30°-60°)	645.3	11.2	B1/1000		
BH	(60°-80°)	594.8	10.3	B2/1000		G2/1000
BVH	(80°-90°)	52.0	0.9			G1/100
UL	(90°-100°)	36.3	0.6		U2/50	
UH	(100°-180°)	387.3	6.7		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°	310	310	310	310	310	310	310	310	310	310	310
2.5°	327	327	326	325	324	323	323	321	319	317	315
5°	344	343	343	342	340	336	335	333	329	324	320
7.5°	362	362	362	359	355	352	350	346	340	333	326
10°	383	384	382	380	376	370	370	362	353	344	335
12.5°	408	409	409	405	397	392	390	381	370	358	345
15°	434	438	436	434	425	418	416	402	390	374	358
17.5°	475	473	469	464	459	449	447	432	414	394	373
20°	513	513	509	505	499	485	487	467	443	419	391
22.5°	555	556	553	549	544	533	530	509	478	446	413
25°	597	599	601	601	594	581	579	552	520	478	438
27.5°	647	652	650	652	649	634	634	606	570	518	466
30°	694	700	703	711	711	702	695	669	626	565	502
32.5°	756	756	762	779	788	775	779	750	693	621	543
35°	819	819	830	853	862	865	865	829	772	686	593
37.5°	885	887	908	939	965	962	966	937	870	763	651
40°	951	957	990	1026	1070	1084	1078	1060	976	854	716
42.5°	1023	1034	1071	1127	1174	1212	1213	1184	1101	960	794
45°	1098	1115	1154	1227	1303	1348	1347	1350	1267	1092	894
47.5°	1184	1195	1250	1339	1441	1531	1530	1527	1420	1214	973
50°	1270	1276	1351	1480	1617	1705	1716	1727	1582	1367	1070
52.5°	1359	1363	1456	1611	1807	1937	1923	1928	1818	1566	1224
55°	1445	1446	1563	1781	2018	2152	2173	2196	2011	1674	1270
57.5°	1519	1527	1683	1951	2234	2417	2407	2378	2118	1717	1277
60°	1583	1602	1802	2109	2399	2511	2522	2424	2152	1735	1269
62.5°	1630	1661	1906	2229	2495	2564	2557	2444	2209	1806	1318
65°	1660	1701	1948	2281	2498	2569	2571	2489	2235	1794	1283
67.5°	1663	1721	1935	2245	2451	2470	2459	2338	2115	1684	1183
70°	1640	1683	1871	2109	2254	2243	2236	2110	1899	1522	1054
72.5°	1550	1581	1710	1877	1942	1936	1907	1811	1641	1303	892
75°	1371	1392	1449	1540	1600	1579	1561	1468	1327	1064	708
77.5°	1128	1105	1134	1170	1200	1207	1203	1108	1006	801	539
80°	790	783	780	796	823	813	797	760	680	546	378
82.5°	469	461	458	466	452	454	455	417	396	333	217
85°	207	207	202	202	201	202	207	194	181	151	104
87.5°	31	28	39	36	42	48	44	42	35	27	21
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°	310	310	310	310	310	310	310	310	310	310	310
2.5°	314	313	310	308	305	303	301	300	300	299	300
5°	318	316	311	307	303	300	297	294	292	291	291
7.5°	322	319	312	306	300	295	291	289	286	285	284
10°	329	325	315	306	299	292	287	284	282	281	281
12.5°	339	332	320	309	299	291	285	281	279	277	278
15°	349	341	326	311	300	292	285	281	278	277	276
17.5°	362	353	335	318	304	294	287	283	280	279	279
20°	379	367	344	325	310	299	291	287	284	284	284
22.5°	396	381	354	333	317	305	298	294	291	290	291
25°	416	399	368	343	326	315	308	303	300	300	300
27.5°	443	423	383	358	338	326	318	315	313	312	311
30°	473	447	405	373	353	340	333	330	327	325	324
32.5°	509	479	426	393	370	357	350	346	343	342	342
35°	554	517	456	417	391	377	370	366	363	362	363
37.5°	599	556	488	443	416	399	392	387	385	383	384
40°	654	601	525	475	443	429	418	412	409	406	404
42.5°	721	661	571	509	475	456	445	438	432	430	427
45°	806	733	631	552	511	487	474	465	456	454	451
47.5°	876	797	681	602	555	523	505	492	481	479	476
50°	954	865	728	644	591	564	541	523	511	505	507
52.5°	1087	975	812	702	635	600	582	558	539	530	532
55°	1116	1010	857	758	692	651	619	595	571	555	554
57.5°	1115	1006	854	766	720	693	665	626	597	576	575
60°	1102	991	839	752	719	711	696	667	620	597	592
62.5°	1134	1018	851	750	709	705	701	683	641	609	604
65°	1100	982	833	747	708	700	701	677	653	612	607
67.5°	1001	900	762	688	669	671	678	667	640	606	602
70°	891	798	676	610	596	607	626	627	609	582	583
72.5°	750	671	573	520	515	524	539	557	552	544	545
75°	608	544	455	420	419	426	446	460	470	473	480
77.5°	451	414	346	317	314	323	345	357	371	382	392
80°	316	282	238	216	220	226	240	255	265	274	274
82.5°	185	167	142	132	134	143	146	159	160	166	170
85°	87	75	68	67	67	68	74	75	76	78	86
87.5°	18	18	18	18	18	21	22	24	23	24	23
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)