Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P198401

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

Issue Date: 3/3/2020

Report Generated By E9970913

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P198401
	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-RW-MS/DIM-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	RECTANGULAR DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source:	(168) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5580.8 lumens
Efficiency:	N/A
Efficacy:	89.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type IV - Short - Semi-Cutoff
BUG Rating:	B3 - U4 - G3

Input Watts (W):	62.4
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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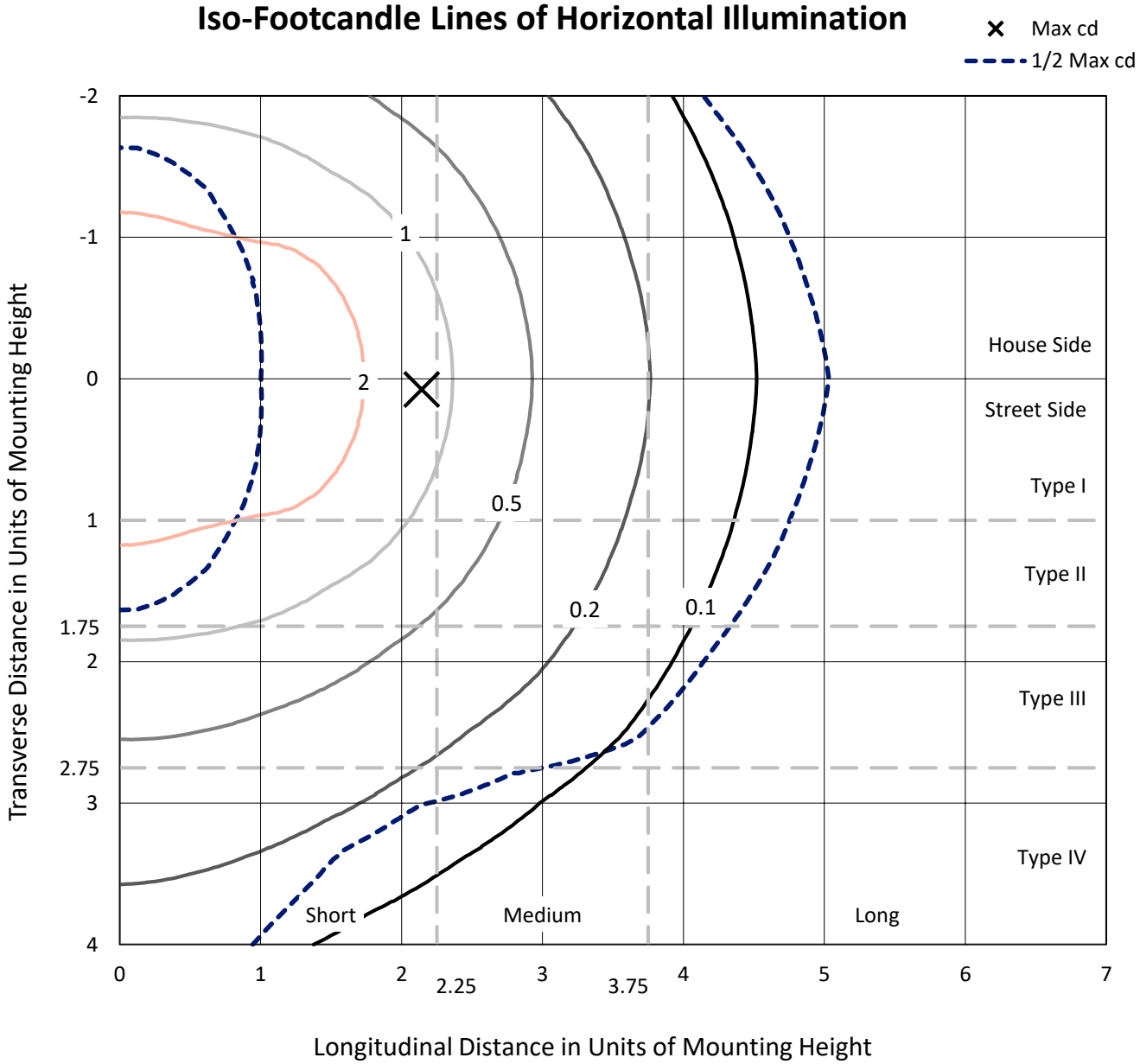
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - Semi-Cutoff

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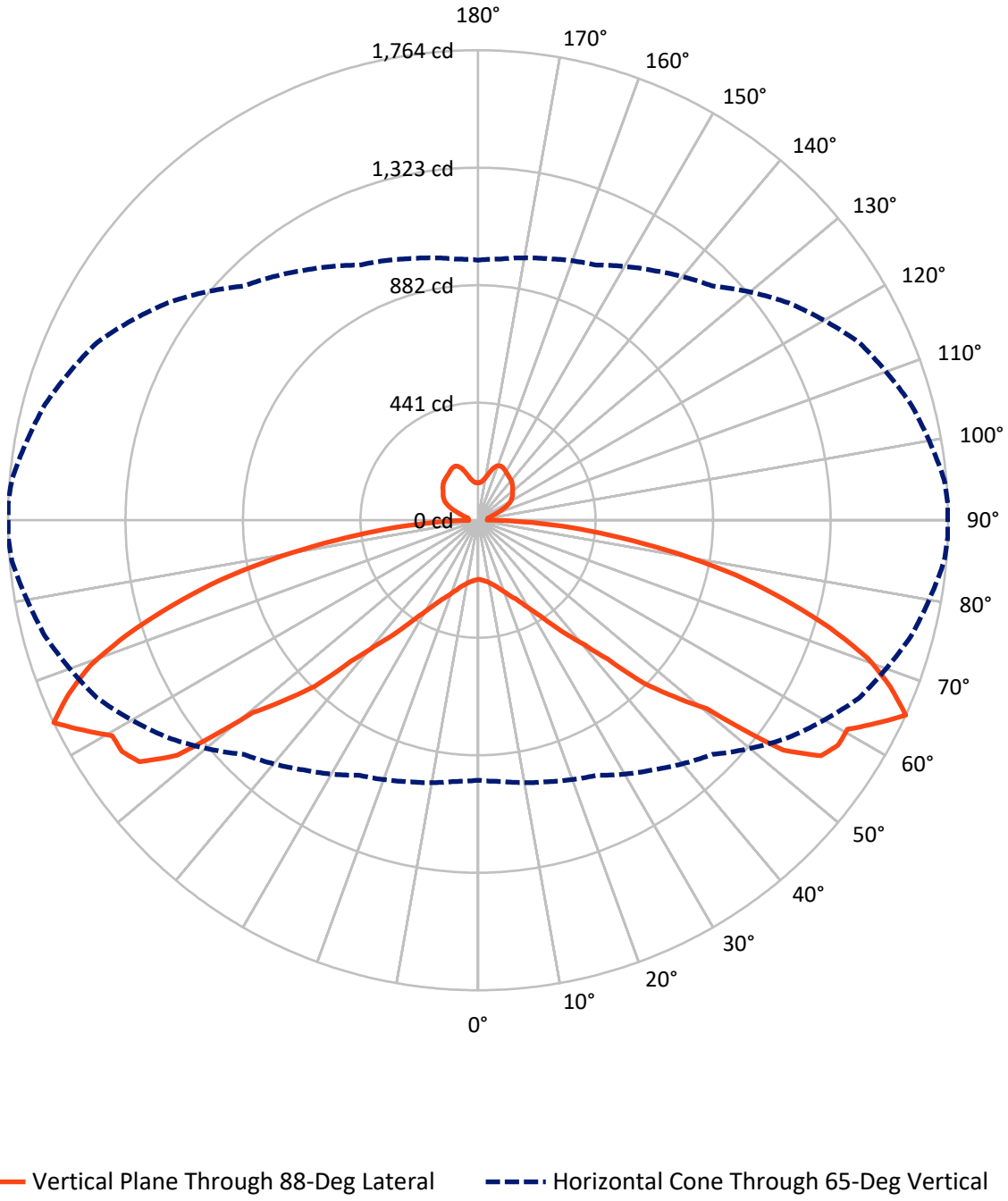
Luminous Intensity Polar Plot



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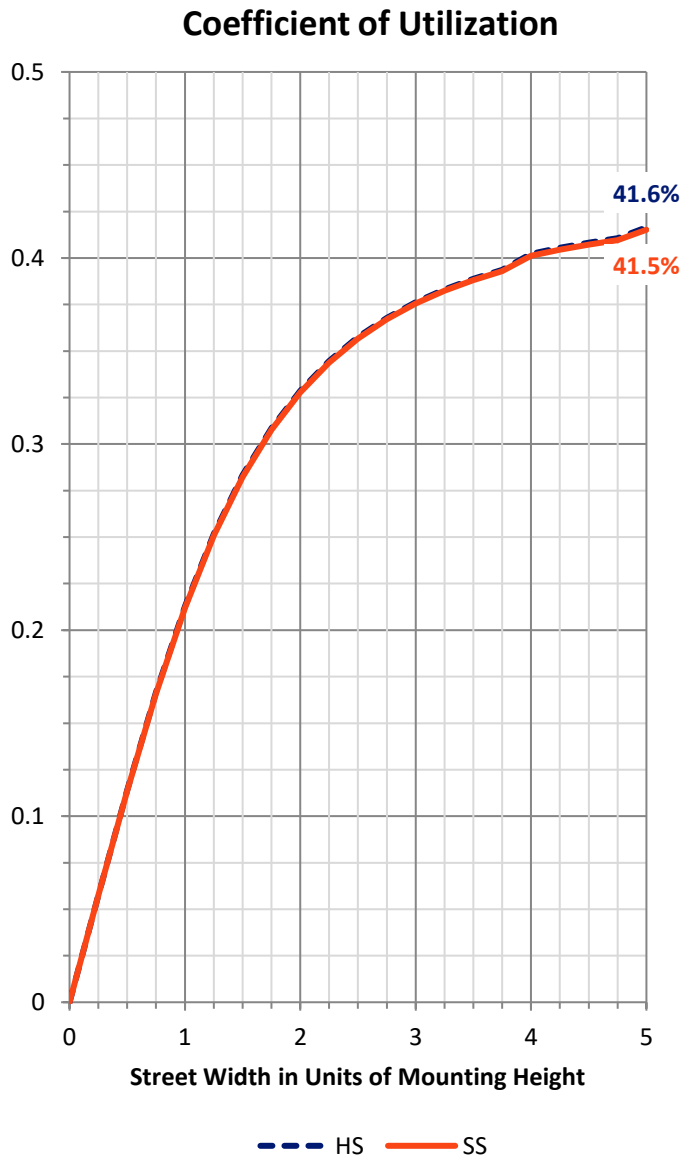
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2377.7	412.7	2790.4
	% Fixture	42.6	7.4	50.0
Street Side	Lumens	2377.7	412.7	2790.4
	% Fixture	42.6	7.4	50.0
Total	Lumens	4755.5	825.3	5580.8
	% Fixture	85.2	14.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	0.4
10°-20°	75.7	1.4
20°-30°	160.8	2.9
30°-40°	307.3	5.5
40°-50°	564.9	10.1
50°-60°	978.3	17.5
60°-70°	1272.7	22.8
70°-80°	1043.1	18.7
80°-90°	330.5	5.9
90°-100°	38.4	0.7
100°-110°	59.5	1.1
110°-120°	119.6	2.1
120°-130°	148.9	2.7
130°-140°	153.3	2.7
140°-150°	136.3	2.4
150°-160°	103.9	1.9
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	4755.5	85.2
0°-180°	5580.8	100.0



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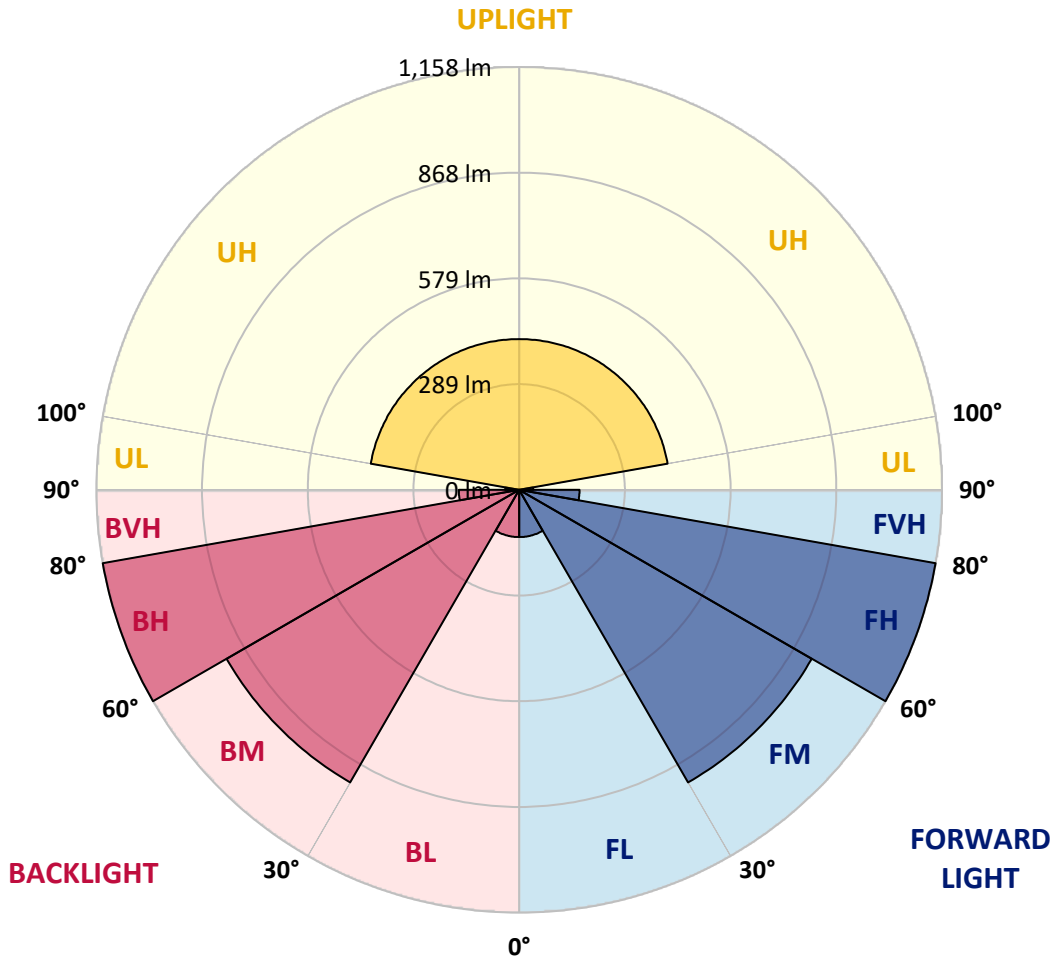
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	129.4	2.3			
FM	(30°-60°)	925.2	16.6			
FH	(60°-80°)	1157.9	20.7			G1/1800
FVH	(80°-90°)	165.2	3.0			G2/225
BL	(0°-30°)	129.4	2.3	B1/500		
BM	(30°-60°)	925.2	16.6	B1/1000		
BH	(60°-80°)	1157.9	20.7	B3/2500		G3/2500
BVH	(80°-90°)	165.2	3.0			G2/225
UL	(90°-100°)	38.4	0.7		U2/50	
UH	(100°-180°)	412.7	7.4		U3/500	

BUG Rating: B3-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	222	222	222	222	222	222	222	222	222	222	222
2.5°	224	224	224	224	224	224	224	224	224	224	224
5°	228	228	228	229	229	229	229	229	228	228	228
7.5°	233	233	234	234	234	234	233	233	232	232	232
10°	241	241	242	242	241	240	240	240	239	239	239
12.5°	252	252	253	252	251	250	250	249	248	248	248
15°	267	267	266	264	262	262	259	259	259	259	258
17.5°	287	286	282	281	278	276	274	273	272	272	273
20°	309	307	302	302	297	294	292	290	290	289	288
22.5°	335	333	327	325	320	315	313	308	307	307	308
25°	361	362	357	353	346	341	334	331	328	328	326
27.5°	391	392	386	381	375	365	361	357	354	356	354
30°	423	425	420	414	405	395	390	389	386	388	387
32.5°	460	459	456	450	438	430	426	425	427	428	427
35°	503	499	496	487	476	470	466	470	479	485	483
37.5°	548	542	539	529	519	516	521	529	538	546	546
40°	585	587	580	571	563	566	575	589	607	615	614
42.5°	622	628	621	612	613	622	635	661	701	713	712
45°	655	668	662	656	665	680	715	773	828	869	872
47.5°	698	705	702	702	716	751	804	885	943	982	988
50°	747	740	741	750	785	837	909	985	1089	1107	1112
52.5°	788	776	783	800	851	917	1007	1163	1296	1416	1433
55°	830	816	830	857	932	1024	1156	1337	1477	1552	1561
57.5°	862	860	880	919	1011	1134	1283	1438	1532	1585	1593
60°	902	904	927	979	1089	1207	1318	1460	1553	1584	1593
62.5°	940	948	975	1034	1130	1220	1327	1499	1617	1684	1678
65°	976	984	1016	1056	1144	1243	1422	1578	1682	1756	1764
67.5°	1012	1022	1035	1067	1152	1245	1400	1531	1615	1666	1669
70°	1043	1042	1039	1048	1101	1173	1317	1421	1500	1542	1552
72.5°	1047	1044	1009	983	1000	1057	1195	1278	1338	1373	1380
75°	1014	997	928	872	869	926	1042	1102	1138	1183	1186
77.5°	907	888	811	735	735	772	869	901	946	980	989
80°	731	729	649	589	567	598	677	689	723	752	761
82.5°	529	514	470	419	401	421	475	487	500	526	537
85°	320	321	291	262	239	246	288	305	322	339	345
87.5°	115	133	104	92	80	76	89	110	129	153	166
90°	36	36	36	34	29	26	28	32	34	34	34
92.5°	40	39	38	34	29	27	28	32	35	36	36
95°	44	43	41	36	32	30	30	34	37	39	38
97.5°	42	42	40	37	35	33	33	34	36	36	36
100°	45	45	44	40	38	36	36	38	38	37	37
102.5°	51	51	49	46	44	42	43	44	42	41	41
105°	60	60	57	54	53	52	54	53	49	48	49
107.5°	72	72	70	67	66	68	68	66	60	59	60
110°	86	86	89	85	86	87	84	84	78	74	75

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
112.5°	101	102	108	107	110	107	102	105	100	95	*94*
115°	121	122	128	128	129	124	121	125	123	116	*114*
117.5°	140	141	144	141	141	136	138	141	139	133	*131*
120°	152	153	155	149	149	147	150	153	148	145	*143*
122.5°	161	162	164	154	155	158	159	162	155	153	*151*
125°	169	169	172	163	165	168	167	168	163	160	*159*
127.5°	177	177	181	171	176	178	176	175	173	166	*164*
130°	187	188	191	179	186	186	183	183	184	171	*170*
132.5°	198	199	201	186	193	195	190	192	192	179	*177*
135°	210	210	209	192	199	201	196	201	199	185	*184*
137.5°	221	219	213	197	205	208	203	210	204	191	*190*
140°	229	226	216	200	207	213	212	217	209	195	*195*
142.5°	235	231	218	201	208	218	220	223	211	198	*198*
145°	235	230	218	202	211	223	230	227	211	201	*202*
147.5°	230	227	219	207	216	229	239	229	212	204	*205*
150°	224	221	220	214	222	235	242	232	214	210	*211*
152.5°	216	214	221	220	230	241	242	235	219	215	*216*
155°	208	207	219	224	237	243	238	234	224	220	*219*
157.5°	203	203	216	224	234	235	228	229	226	222	*220*
160°	199	198	210	213	219	219	215	219	221	218	*216*
162.5°	185	184	193	193	198	198	196	200	204	207	*207*
165°	169	167	173	173	176	177	176	181	185	190	*191*
167.5°	154	152	156	155	159	159	160	165	168	172	*173*
170°	142	141	145	144	147	147	148	152	155	159	*160*
172.5°	137	135	139	138	141	141	141	145	146	149	*150*
175°	136	134	137	137	139	139	138	141	141	143	*144*
177.5°	137	136	139	138	140	139	138	140	140	141	*141*
180°	140	140	140	140	140	140	140	140	140	140	*140*

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CANDELA DISTRIBUTION (continued):

	90°
0°	222
2.5°	224
5°	227
7.5°	232
10°	239
12.5°	248
15°	258
17.5°	271
20°	288
22.5°	306
25°	327
27.5°	356
30°	386
32.5°	427
35°	488
37.5°	546
40°	617
42.5°	716
45°	876
47.5°	987
50°	1121
52.5°	1419
55°	1564
57.5°	1595
60°	1593
62.5°	1694
65°	*1763*
67.5°	1671
70°	1556
72.5°	1377
75°	1193
77.5°	994
80°	765
82.5°	533
85°	359
87.5°	148
90°	34
92.5°	36
95°	38
97.5°	36
100°	37
102.5°	41
105°	49
107.5°	60
110°	75

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CANDELA DISTRIBUTION (continued):

	90°
112.5°	94
115°	113
117.5°	129
120°	142
122.5°	150
125°	158
127.5°	163
130°	169
132.5°	176
135°	184
137.5°	190
140°	195
142.5°	198
145°	202
147.5°	206
150°	211
152.5°	216
155°	219
157.5°	219
160°	215
162.5°	207
165°	192
167.5°	174
170°	160
172.5°	151
175°	144
177.5°	141
180°	140

(END OF REPORT)