

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: P198396

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198396
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-CG-MS/DIM-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5402 lumens
Efficiency: N/A
Efficacy: 86.6 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

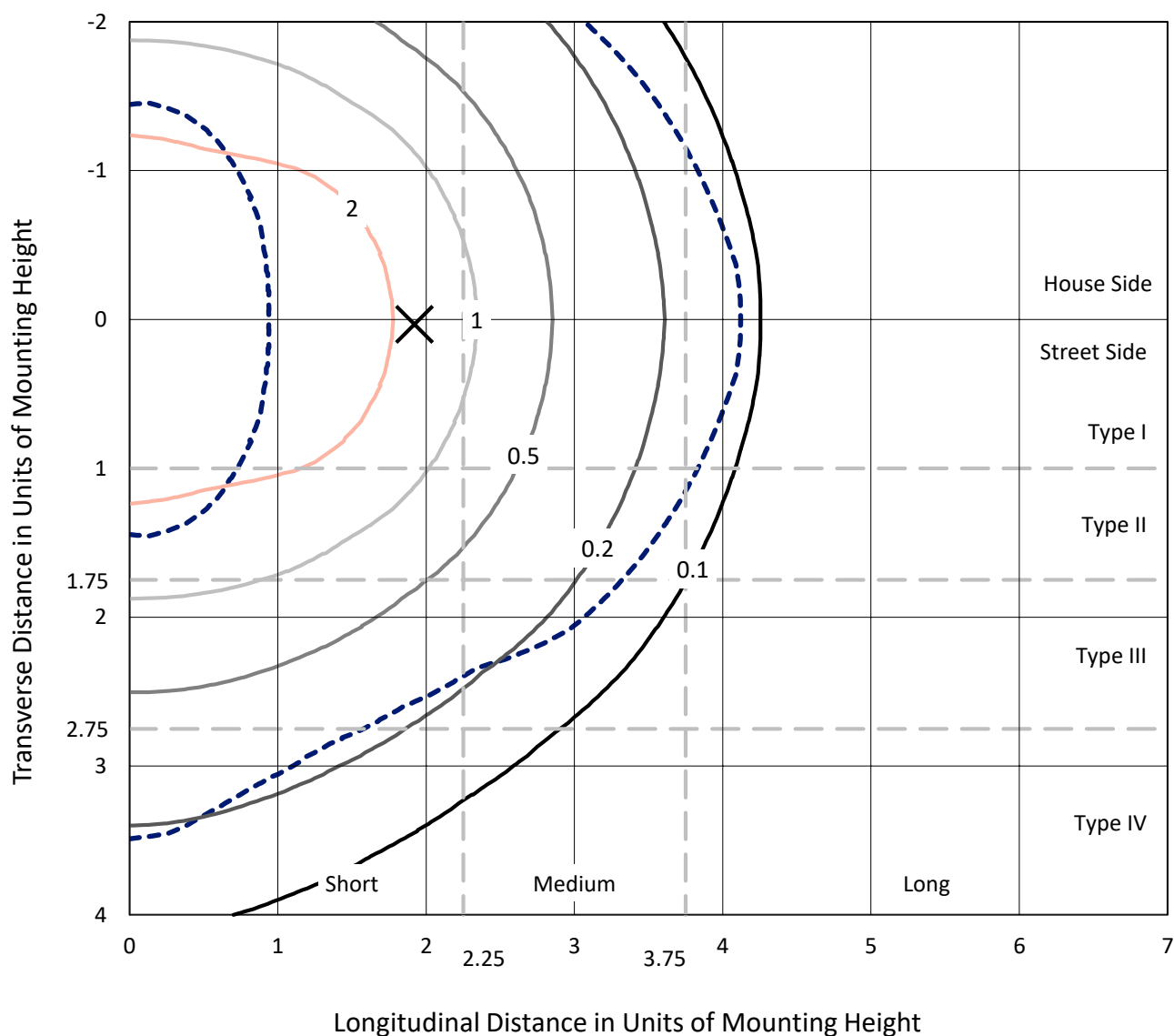


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

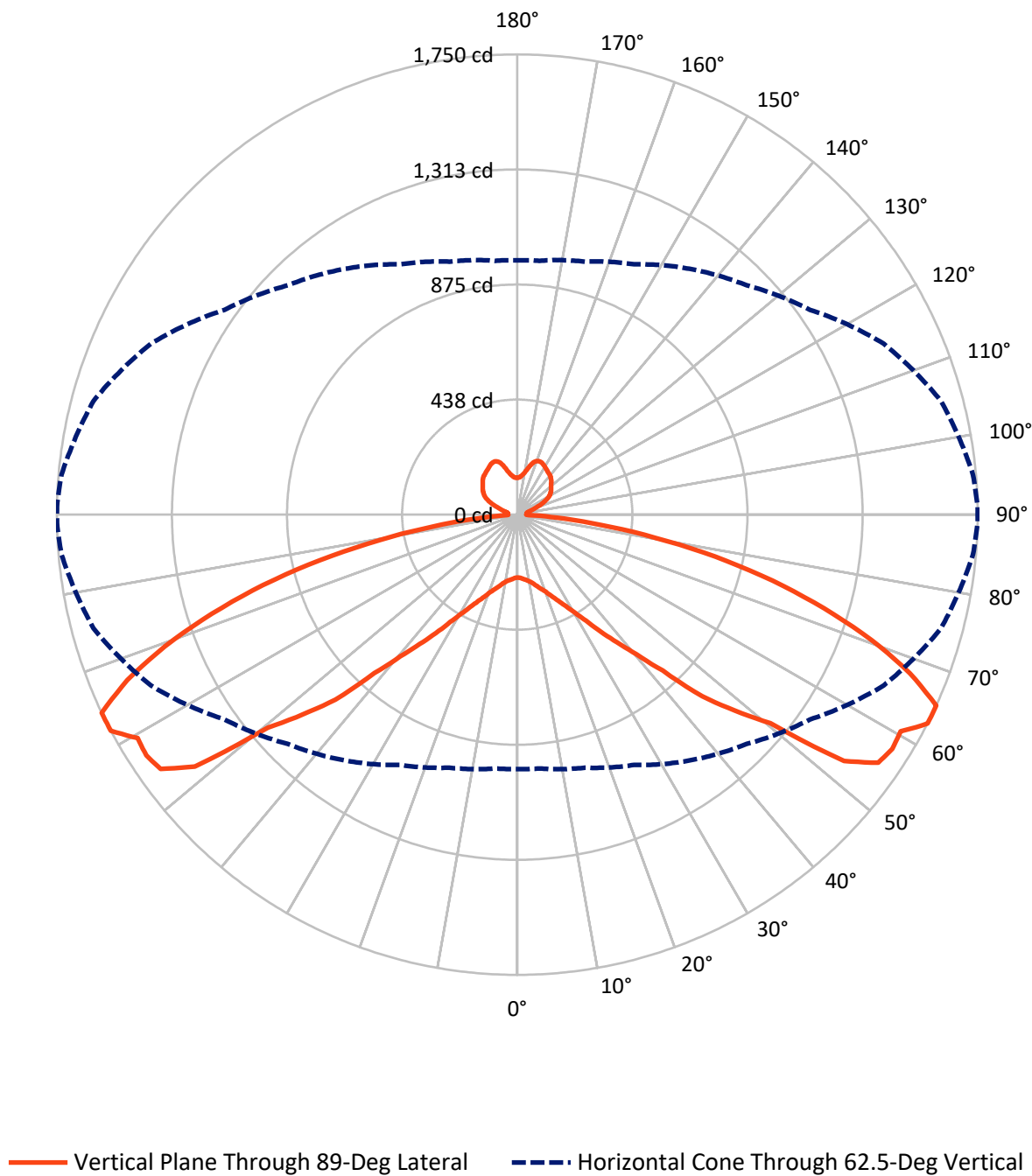


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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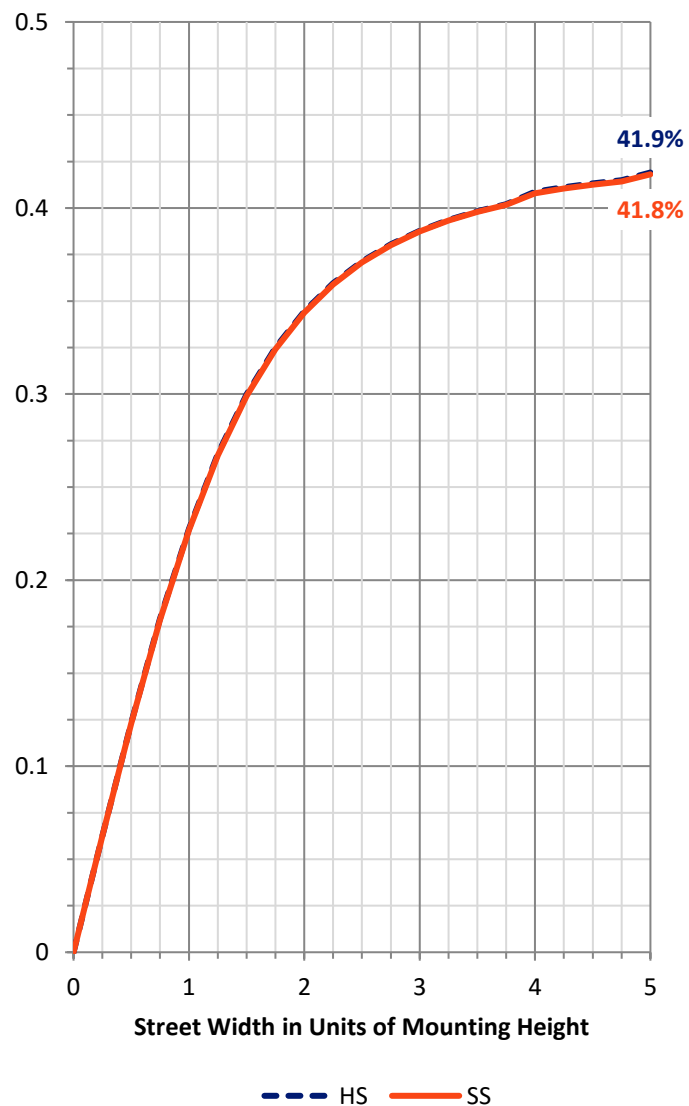
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.3	412.7	2701.0
	% Fixture	42.4	7.6	50.0
Street Side	Lumens	2288.3	412.7	2701.0
	% Fixture	42.4	7.6	50.0
Total	Lumens	4576.7	825.3	5402.0
	% Fixture	84.7	15.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	0.4
10°-20°	81.4	1.5
20°-30°	173.1	3.2
30°-40°	332.6	6.2
40°-50°	615.7	11.4
50°-60°	1040.1	19.3
60°-70°	1256.2	23.3
70°-80°	864.9	16.0
80°-90°	188.9	3.5
90°-100°	38.4	0.7
100°-110°	59.5	1.1
110°-120°	119.6	2.2
120°-130°	148.9	2.8
130°-140°	153.3	2.8
140°-150°	136.3	2.5
150°-160°	103.9	1.9
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4576.7	84.7
0°-180°	5402.0	100.0

Coefficient of Utilization



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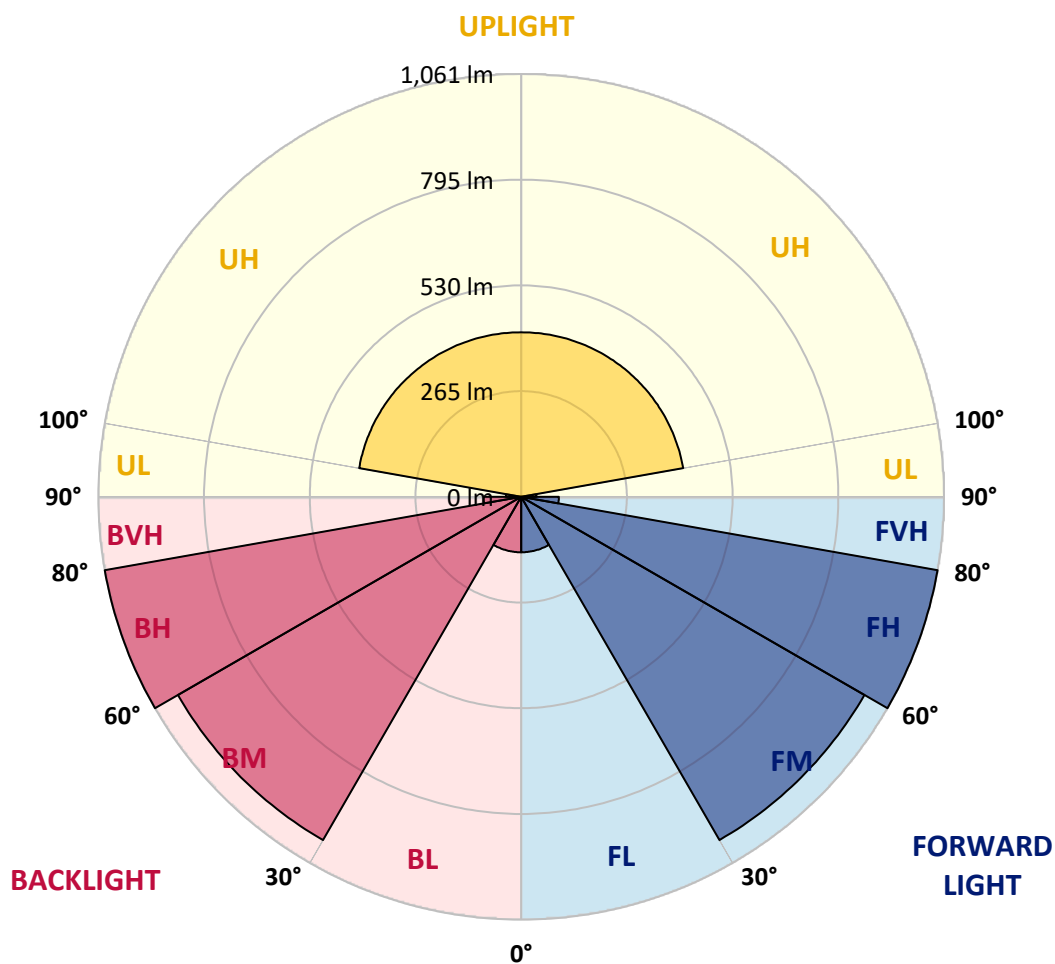
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.1	2.6			
FM	(30°-60°)	994.2	18.4			
FH	(60°-80°)	1060.5	19.6			G1/1800
FVH	(80°-90°)	94.5	1.7			G1/100
BL	(0°-30°)	139.1	2.6	B1/500		
BM	(30°-60°)	994.2	18.4	B1/1000		
BH	(60°-80°)	1060.5	19.6	B3/2500		G3/2500
BVH	(80°-90°)	94.5	1.7			G1/100
UL	(90°-100°)	38.4	0.7		U2/50	
UH	(100°-180°)	412.7	7.6		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°	89°
0°	239	239	239	239	239	239	239	239	239	239	239
2.5°	241	241	241	241	242	242	242	242	242	242	241
5°	245	244	245	246	246	247	247	247	247	246	246
7.5°	250	250	251	252	253	252	252	251	251	251	251
10°	259	258	259	260	259	259	259	259	259	259	258
12.5°	269	269	269	269	268	269	268	269	269	269	268
15°	283	283	283	282	281	281	281	281	281	281	282
17.5°	302	301	300	298	297	296	296	296	297	297	297
20°	324	322	320	319	318	316	315	316	317	317	314
22.5°	351	348	345	344	340	339	338	337	337	338	337
25°	376	377	374	369	368	366	363	364	363	364	363
27.5°	407	409	406	401	398	395	393	393	394	397	394
30°	442	443	440	436	431	427	426	431	431	435	433
32.5°	479	478	474	473	467	467	468	472	479	482	481
35°	524	518	517	513	508	508	514	524	537	545	546
37.5°	565	563	562	556	553	559	571	589	600	616	616
40°	607	612	607	601	604	613	633	656	681	698	698
42.5°	648	657	652	647	655	676	701	740	790	812	811
45°	692	699	694	695	712	738	786	870	940	985	986
47.5°	740	741	738	743	768	818	883	986	1055	1109	1113
50°	788	783	782	794	839	902	995	1095	1204	1244	1247
52.5°	831	825	829	849	908	986	1102	1272	1430	1548	1556
55°	872	865	875	907	985	1090	1235	1447	1581	1658	1665
57.5°	907	905	921	961	1057	1185	1344	1517	1616	1674	1681
60°	942	942	963	1015	1122	1239	1365	1516	1618	1667	1674
62.5°	967	969	996	1050	1141	1233	1358	1537	1668	1739	1750
65°	981	985	1014	1050	1133	1227	1403	1554	1662	1737	1750
67.5°	983	991	1005	1032	1102	1182	1331	1454	1544	1601	1610
70°	974	971	970	977	1012	1070	1201	1298	1387	1423	1430
72.5°	929	928	893	871	880	920	1036	1111	1169	1215	1220
75°	839	831	773	728	719	755	842	897	949	992	1003
77.5°	700	680	621	568	551	578	643	681	719	769	769
80°	508	498	447	404	387	403	449	465	485	530	531
82.5°	328	317	283	256	241	251	270	277	294	321	320
85°	160	160	143	128	114	116	128	132	146	153	151
87.5°	40	44	39	36	32	32	36	36	44	44	42
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°	89°
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	130
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	158
127.5°	177	177	181	171	176	178	176	175	173	166	164
130°	187	188	191	179	186	186	183	183	184	171	169
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	206
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	192
167.5°	154	152	156	155	159	159	160	165	168	172	174
170°	142	141	145	144	147	147	148	152	155	159	160
172.5°	137	135	139	138	141	141	141	145	146	149	151
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°	239
2.5°	241
5°	246
7.5°	251
10°	258
12.5°	269
15°	281
17.5°	298
20°	317
22.5°	337
25°	363
27.5°	397
30°	435
32.5°	480
35°	542
37.5°	616
40°	699
42.5°	812
45°	988
47.5°	1109
50°	1244
52.5°	1551
55°	1664
57.5°	1682
60°	1676
62.5°	1750
65°	1748
67.5°	1608
70°	1433
72.5°	1228
75°	1007
77.5°	764
80°	552
82.5°	322
85°	153
87.5°	46
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)