

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: P198397

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198397
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-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5719.4 lumens
Efficiency: N/A
Efficacy: 91.7 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



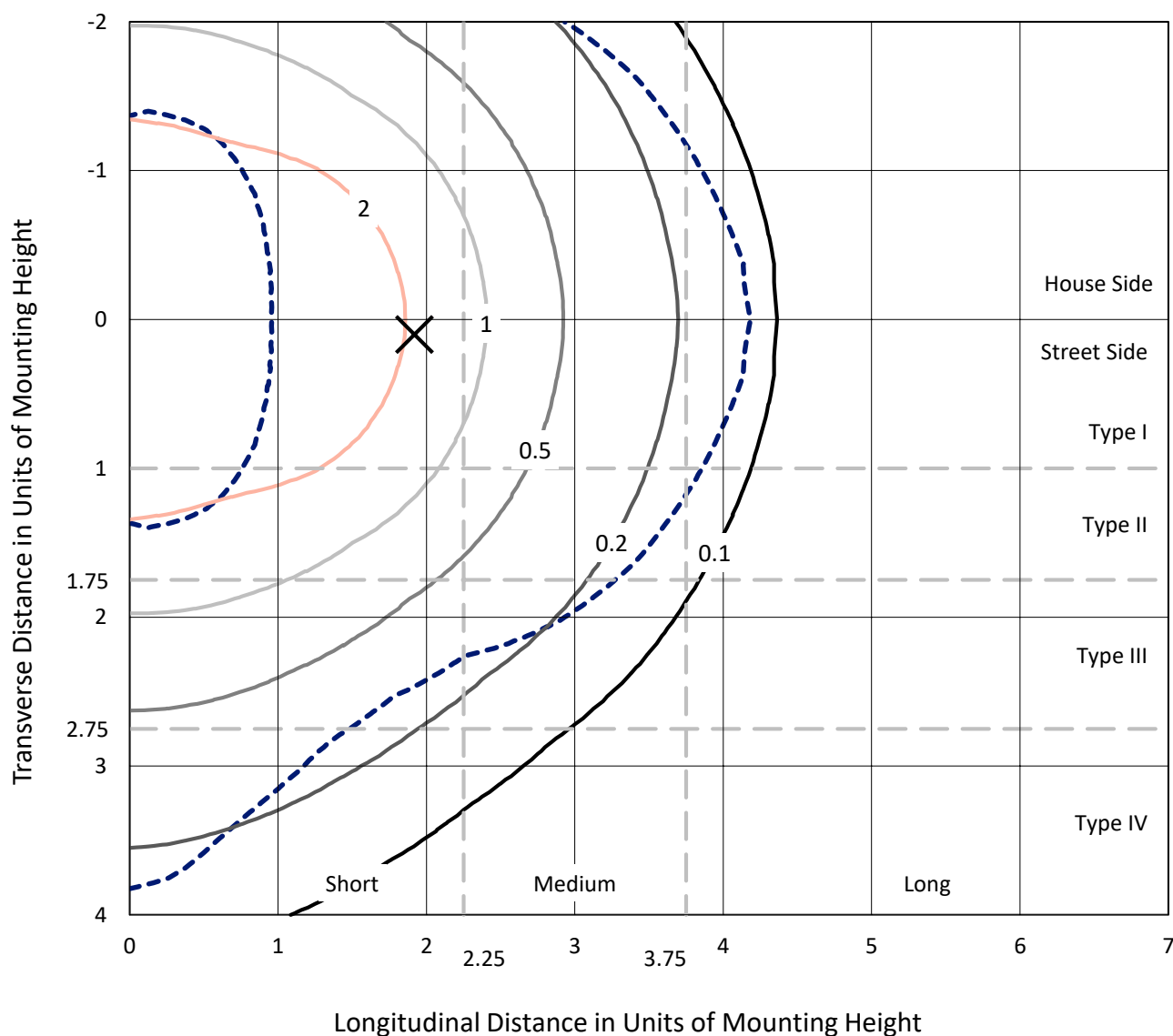
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

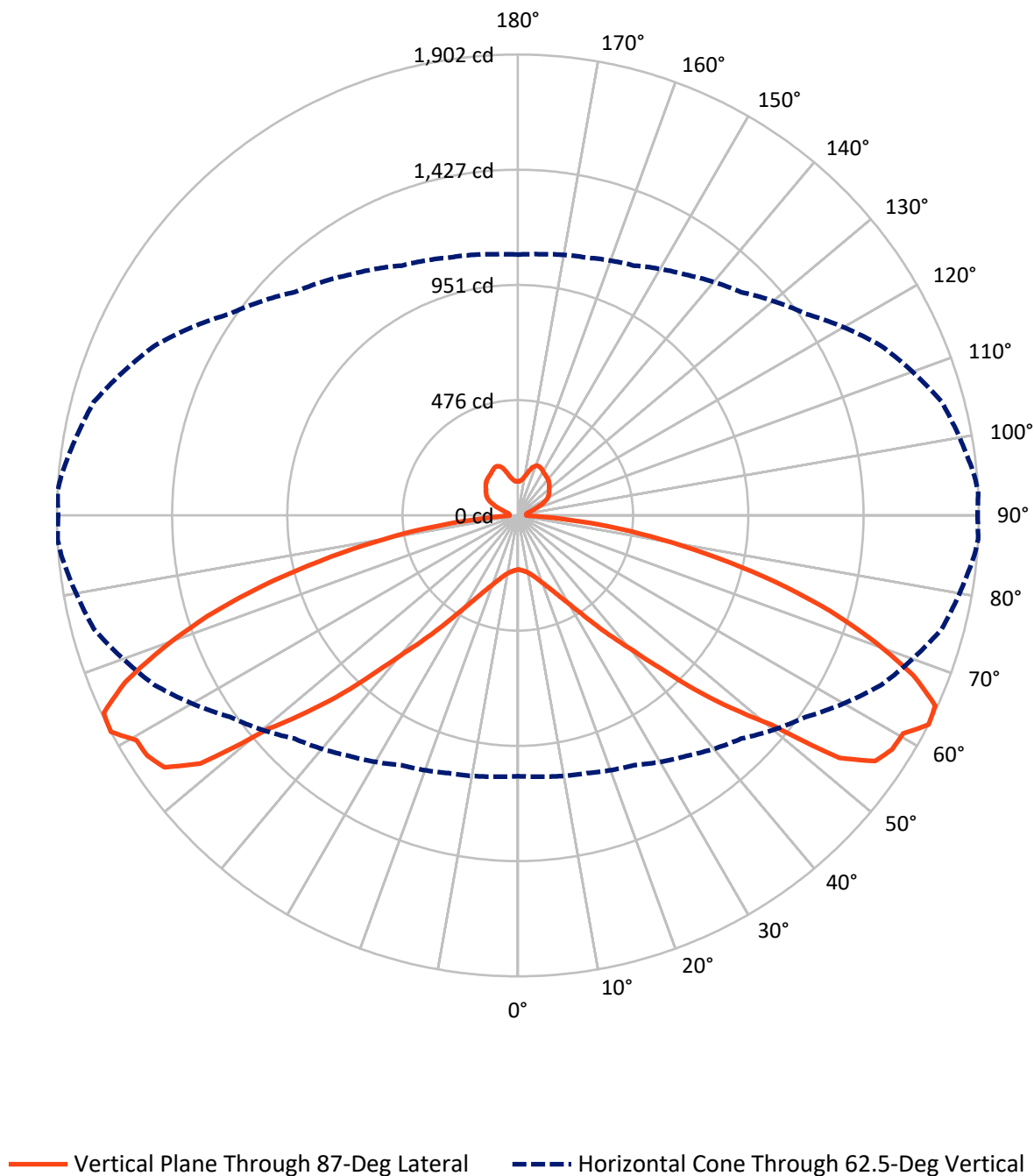


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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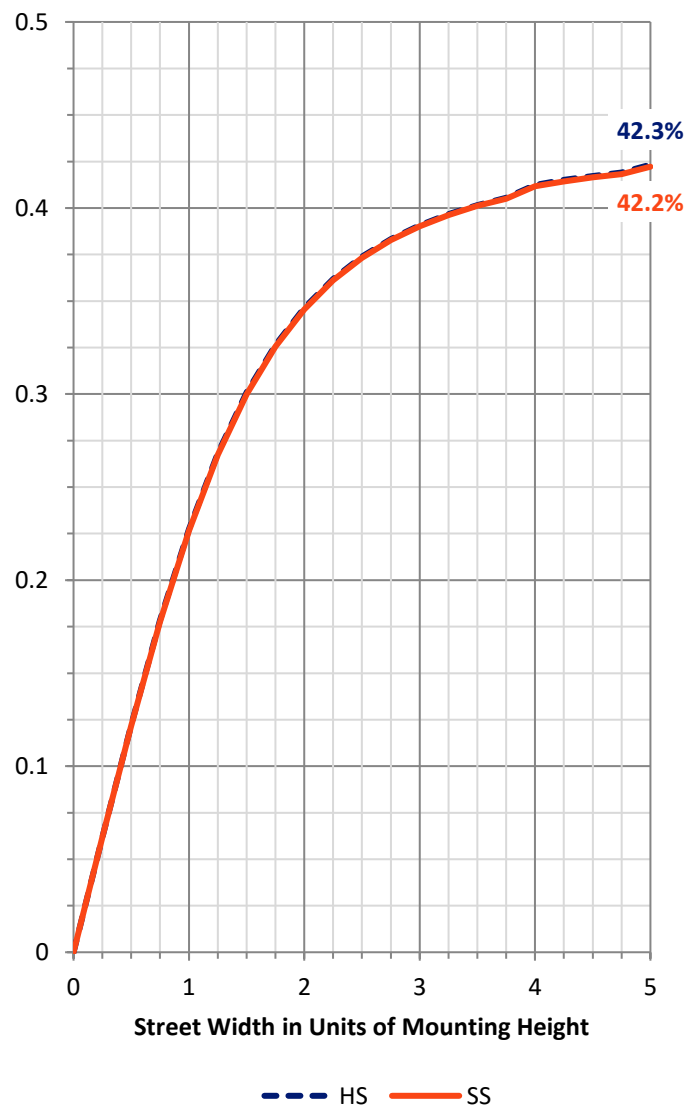
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.0	412.7	2859.7
	% Fixture	42.8	7.2	50.0
Street Side	Lumens	2447.0	412.7	2859.7
	% Fixture	42.8	7.2	50.0
Total	Lumens	4894.1	825.3	5719.4
	% Fixture	85.6	14.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	0.4
10°-20°	77.2	1.4
20°-30°	170.4	3.0
30°-40°	343.2	6.0
40°-50°	654.6	11.4
50°-60°	1120.9	19.6
60°-70°	1357.9	23.7
70°-80°	940.8	16.5
80°-90°	206.6	3.6
90°-100°	38.4	0.7
100°-110°	59.5	1.0
110°-120°	119.6	2.1
120°-130°	148.9	2.6
130°-140°	153.3	2.7
140°-150°	136.3	2.4
150°-160°	103.9	1.8
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	4894.1	85.6
0°-180°	5719.4	100.0

Coefficient of Utilization



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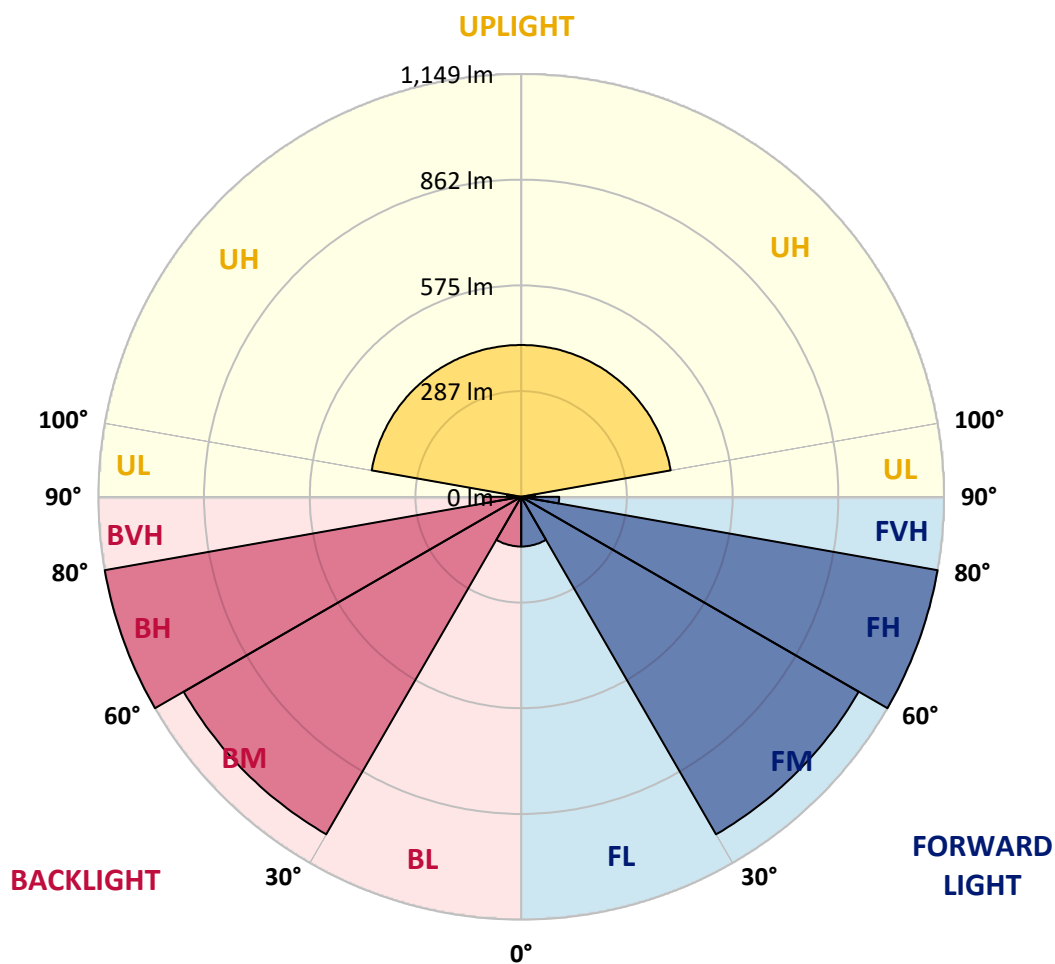
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.0	2.4			
FM	(30°-60°)	1059.4	18.5			
FH	(60°-80°)	1149.4	20.1			G1/1800
FVH	(80°-90°)	103.3	1.8			G2/225
BL	(0°-30°)	135.0	2.4	B1/500		
BM	(30°-60°)	1059.4	18.5	B2/2500		
BH	(60°-80°)	1149.4	20.1	B3/2500		G3/2500
BVH	(80°-90°)	103.3	1.8			G2/225
UL	(90°-100°)	38.4	0.7		U2/50	
UH	(100°-180°)	412.7	7.2		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°	87°
0°	223	223	223	223	223	223	223	223	223	223	223
2.5°	225	225	226	226	226	226	226	226	226	226	226
5°	229	229	229	230	230	230	230	230	229	229	229
7.5°	235	235	235	236	236	236	235	235	234	234	234
10°	243	243	244	244	243	243	242	241	242	241	241
12.5°	254	256	255	255	253	253	252	252	252	251	251
15°	270	270	271	269	269	266	265	264	265	265	264
17.5°	289	289	289	286	284	282	281	280	279	280	280
20°	318	316	312	310	305	303	301	300	299	299	299
22.5°	348	346	341	337	333	328	326	322	321	323	322
25°	377	380	374	369	366	358	353	352	350	349	350
27.5°	413	415	410	403	397	391	386	384	385	385	386
30°	453	457	449	445	436	428	424	426	428	431	430
32.5°	499	499	495	488	478	471	469	472	481	485	484
35°	553	549	545	536	523	519	523	533	546	553	557
37.5°	609	601	595	585	579	577	586	605	619	632	638
40°	657	657	649	638	632	641	655	682	709	723	733
42.5°	705	711	702	693	693	705	732	774	825	855	860
45°	755	766	754	748	754	778	829	910	986	1035	1027
47.5°	807	817	806	803	817	860	938	1042	1118	1169	1189
50°	871	864	860	859	888	952	1053	1165	1287	1333	1358
52.5°	925	913	911	918	966	1043	1169	1375	1544	1658	1662
55°	972	959	966	983	1048	1155	1314	1555	1698	1783	1790
57.5°	1012	1005	1017	1040	1124	1252	1430	1629	1747	1815	1822
60°	1048	1047	1060	1099	1193	1309	1456	1634	1757	1818	1827
62.5°	1076	1082	1101	1137	1212	1303	1450	1655	1811	1891	1902
65°	1100	1106	1125	1137	1204	1291	1483	1669	1803	1886	1893
67.5°	1113	1120	1117	1119	1171	1239	1405	1565	1675	1751	1760
70°	1111	1105	1081	1056	1067	1115	1265	1399	1499	1559	1562
72.5°	1069	1059	1002	944	927	959	1090	1191	1276	1331	1348
75°	974	954	871	796	758	782	883	971	1034	1088	1099
77.5°	801	789	706	624	582	598	678	730	798	854	840
80°	583	581	514	441	411	418	461	512	555	597	599
82.5°	381	375	330	277	246	250	277	304	345	372	380
85°	189	186	166	133	116	116	129	145	165	177	176
87.5°	52	47	46	34	28	30	30	33	42	45	48
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	39
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	48
107.5°	72	72	70	67	66	68	68	66	60	59	59
110°	86	86	89	85	86	87	84	84	78	74	74

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
112.5°	101	102	108	107	110	107	102	105	100	95	95
115°	121	122	128	128	129	124	121	125	123	116	115
117.5°	140	141	144	141	141	136	138	141	139	133	131
120°	152	153	155	149	149	147	150	153	148	145	144
122.5°	161	162	164	154	155	158	159	162	155	153	152
125°	169	169	172	163	165	168	167	168	163	160	159
127.5°	177	177	181	171	176	178	176	175	173	166	165
130°	187	188	191	179	186	186	183	183	184	171	170
132.5°	198	199	201	186	193	195	190	192	192	179	178
135°	210	210	209	192	199	201	196	201	199	185	185
137.5°	221	219	213	197	205	208	203	210	204	191	191
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	201
147.5°	230	227	219	207	216	229	239	229	212	204	205
150°	224	221	220	214	222	235	242	232	214	210	210
152.5°	216	214	221	220	230	241	242	235	219	215	215
155°	208	207	219	224	237	243	238	234	224	220	220
157.5°	203	203	216	224	234	235	228	229	226	222	221
160°	199	198	210	213	219	219	215	219	221	218	217
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	159
172.5°	137	135	139	138	141	141	141	145	146	149	150
175°	136	134	137	137	139	139	138	141	141	143	143
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°	223
2.5°	226
5°	229
7.5°	234
10°	242
12.5°	251
15°	264
17.5°	279
20°	299
22.5°	324
25°	350
27.5°	385
30°	431
32.5°	485
35°	555
37.5°	633
40°	729
42.5°	855
45°	1036
47.5°	1179
50°	1345
52.5°	1668
55°	1792
57.5°	1824
60°	1828
62.5°	1897
65°	1901
67.5°	1753
70°	1567
72.5°	1346
75°	1107
77.5°	855
80°	598
82.5°	374
85°	175
87.5°	44
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)