

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: P198408

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198408
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-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5911.9 lumens
Efficiency: N/A
Efficacy: 94.7 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



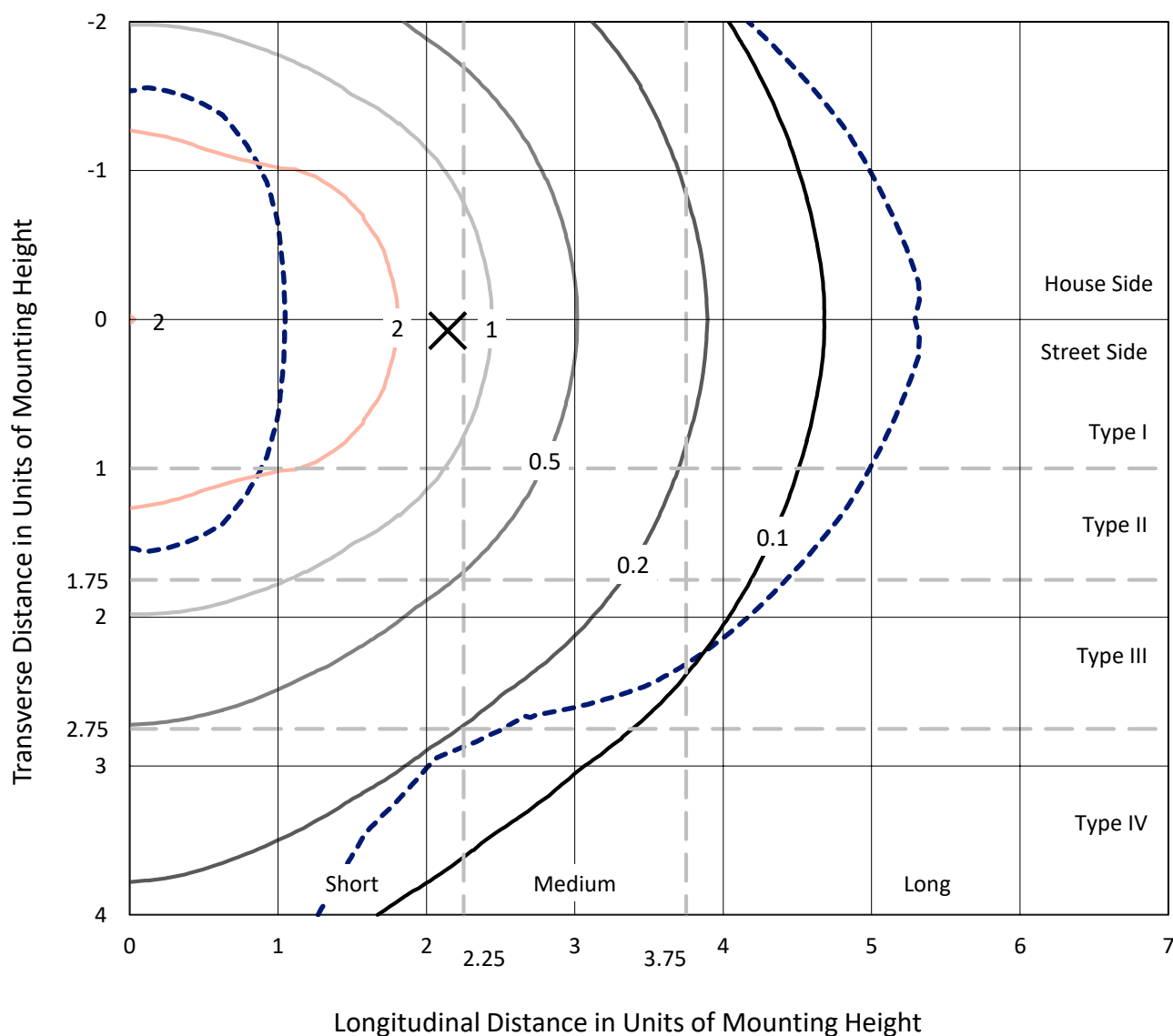
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

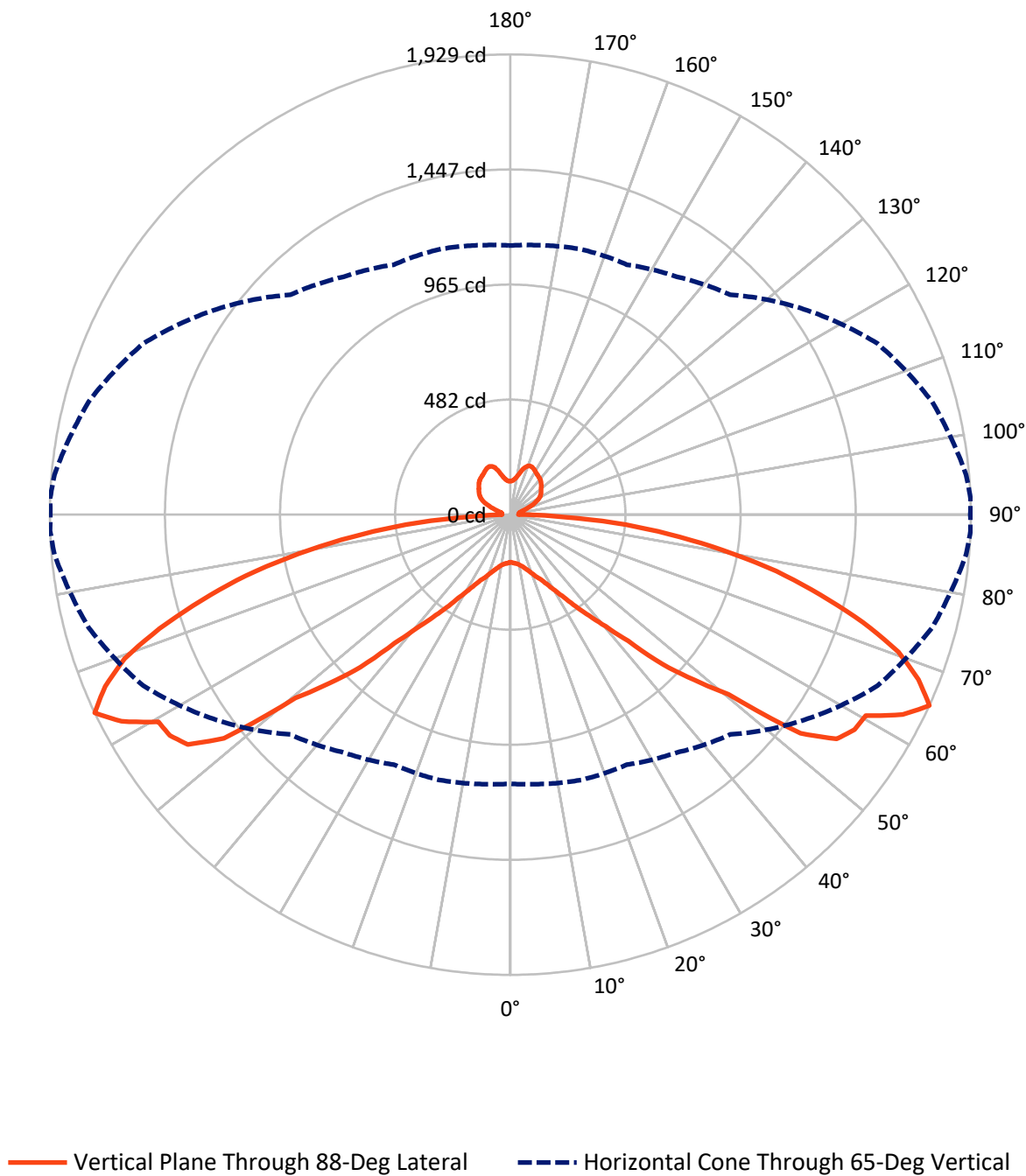


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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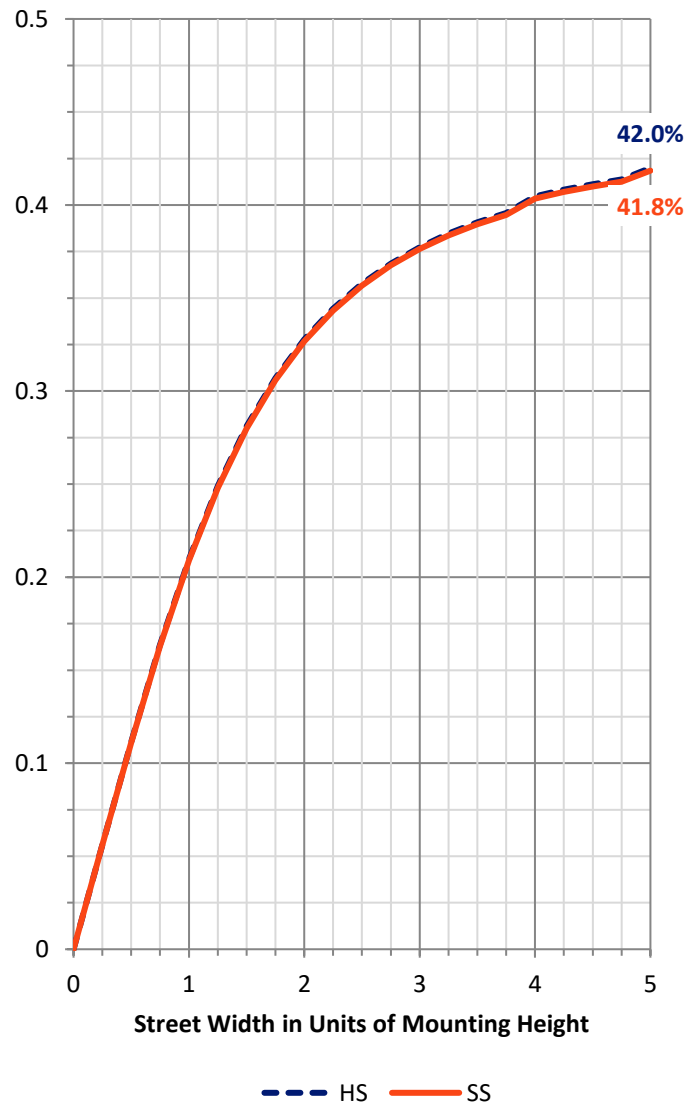
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2543.3	412.7	2956.0
	% Fixture	43.0	7.0	50.0
Street Side	Lumens	2543.3	412.7	2956.0
	% Fixture	43.0	7.0	50.0
Total	Lumens	5086.6	825.3	5911.9
	% Fixture	86.0	14.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.3
10°-20°	69.2	1.2
20°-30°	152.8	2.6
30°-40°	304.6	5.2
40°-50°	583.0	9.9
50°-60°	1043.5	17.7
60°-70°	1382.8	23.4
70°-80°	1154.0	19.5
80°-90°	376.7	6.4
90°-100°	38.4	0.6
100°-110°	59.5	1.0
110°-120°	119.6	2.0
120°-130°	148.9	2.5
130°-140°	153.3	2.6
140°-150°	136.3	2.3
150°-160°	103.9	1.8
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	5086.6	86.0
0°-180°	5911.9	100.0

Coefficient of Utilization



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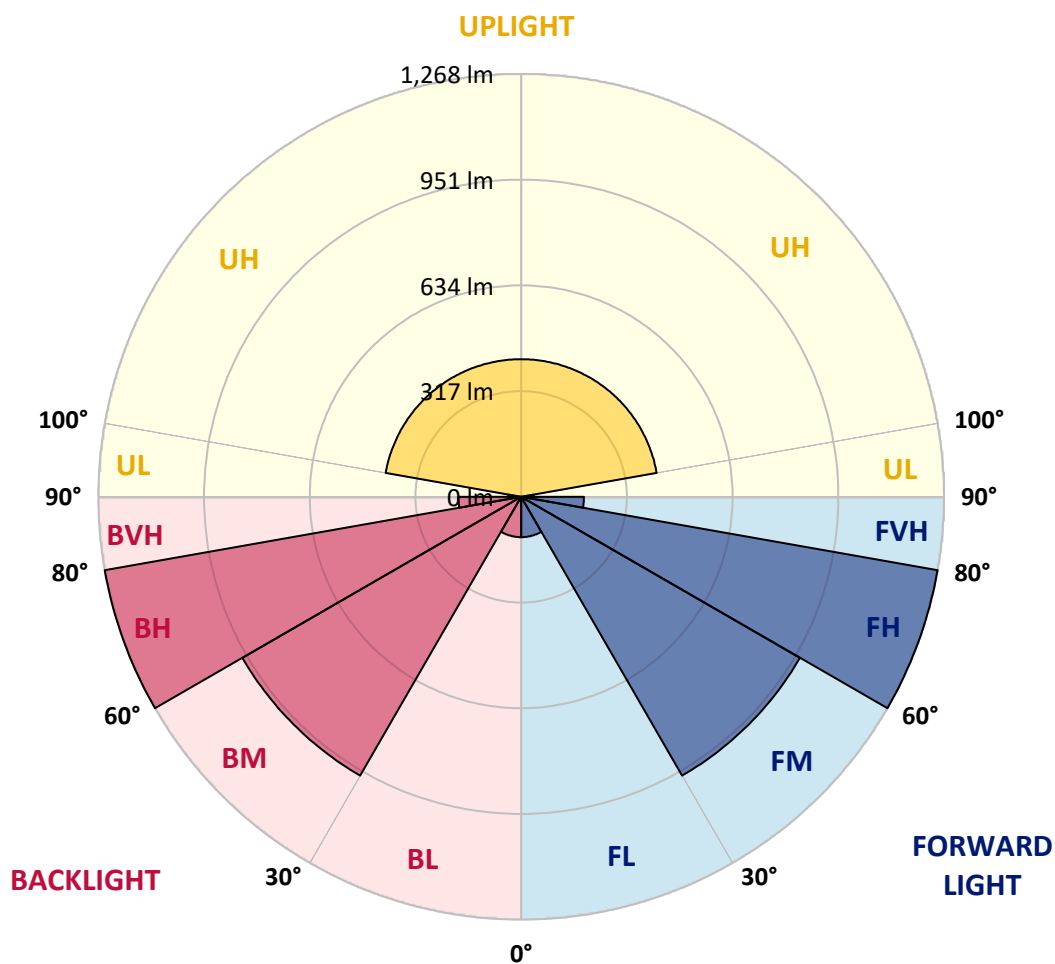
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.0	2.0			
FM	(30°-60°)	965.6	16.3			
FH	(60°-80°)	1268.4	21.5			G1/1800
FVH	(80°-90°)	188.4	3.2			G2/225
BL	(0°-30°)	121.0	2.0	B1/500		
BM	(30°-60°)	965.6	16.3	B1/1000		
BH	(60°-80°)	1268.4	21.5	B3/2500		G3/2500
BVH	(80°-90°)	188.4	3.2			G2/225
UL	(90°-100°)	38.4	0.6		U2/50	
UH	(100°-180°)	412.7	7.0		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°	199	199	199	199	199	199	199	199	199	199	199
2.5°	201	201	201	201	202	202	202	202	202	202	202
5°	204	204	205	205	206	206	206	206	205	205	205
7.5°	209	210	211	211	211	210	209	209	208	208	208
10°	218	218	219	219	218	217	216	215	215	215	214
12.5°	229	229	230	229	227	226	224	223	223	222	222
15°	244	246	246	243	240	237	236	234	234	234	234
17.5°	267	266	262	259	257	252	250	249	247	247	247
20°	293	291	286	282	278	272	268	266	265	264	264
22.5°	322	319	312	309	301	295	290	286	283	282	284
25°	352	352	346	338	330	321	314	309	305	304	303
27.5°	384	386	378	370	361	349	342	335	334	333	332
30°	418	422	414	406	394	382	373	370	367	369	369
32.5°	460	462	453	447	431	419	411	409	410	409	412
35°	509	506	499	487	473	462	456	460	471	475	473
37.5°	563	552	548	533	520	511	513	523	532	539	537
40°	603	605	594	580	568	566	577	590	607	613	615
42.5°	644	656	643	629	623	627	643	669	707	727	724
45°	691	704	690	679	678	693	728	796	852	892	896
47.5°	740	750	737	730	740	769	829	920	980	1027	1035
50°	802	798	788	787	809	862	943	1035	1143	1174	1184
52.5°	863	848	846	851	890	950	1058	1239	1398	1510	1522
55°	920	903	907	920	975	1066	1216	1437	1576	1655	1659
57.5°	972	962	971	989	1071	1188	1347	1529	1634	1690	1700
60°	1025	1023	1034	1067	1155	1259	1392	1553	1658	1701	1711
62.5°	1075	1082	1096	1128	1196	1277	1406	1603	1760	1828	1845
65°	1128	1134	1151	1156	1217	1303	1501	1697	1829	1917	1929
67.5°	1176	1184	1178	1174	1227	1303	1482	1654	1764	1831	1844
70°	1222	1213	1189	1158	1173	1225	1389	1538	1649	1712	1725
72.5°	1234	1222	1158	1087	1065	1104	1255	1387	1478	1537	1545
75°	1203	1178	1070	972	930	969	1095	1208	1272	1336	1341
77.5°	1079	1063	943	824	777	806	911	991	1065	1127	1139
80°	886	872	766	669	606	626	703	767	838	887	902
82.5°	652	650	574	483	439	437	495	558	612	659	669
85°	410	410	358	303	257	258	293	339	407	437	440
87.5°	139	132	123	100	80	72	77	88	134	166	172
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°	199
2.5°	202
5°	205
7.5°	208
10°	214
12.5°	223
15°	233
17.5°	247
20°	264
22.5°	283
25°	303
27.5°	333
30°	368
32.5°	411
35°	474
37.5°	539
40°	620
42.5°	732
45°	886
47.5°	1035
50°	1173
52.5°	1497
55°	1663
57.5°	1699
60°	1708
62.5°	1836
65°	1927
67.5°	1843
70°	1722
72.5°	1539
75°	1349
77.5°	1139
80°	890
82.5°	669
85°	433
87.5°	167
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)