

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: P198426

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198426
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-WQ-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6611.6 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U4 - G2

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

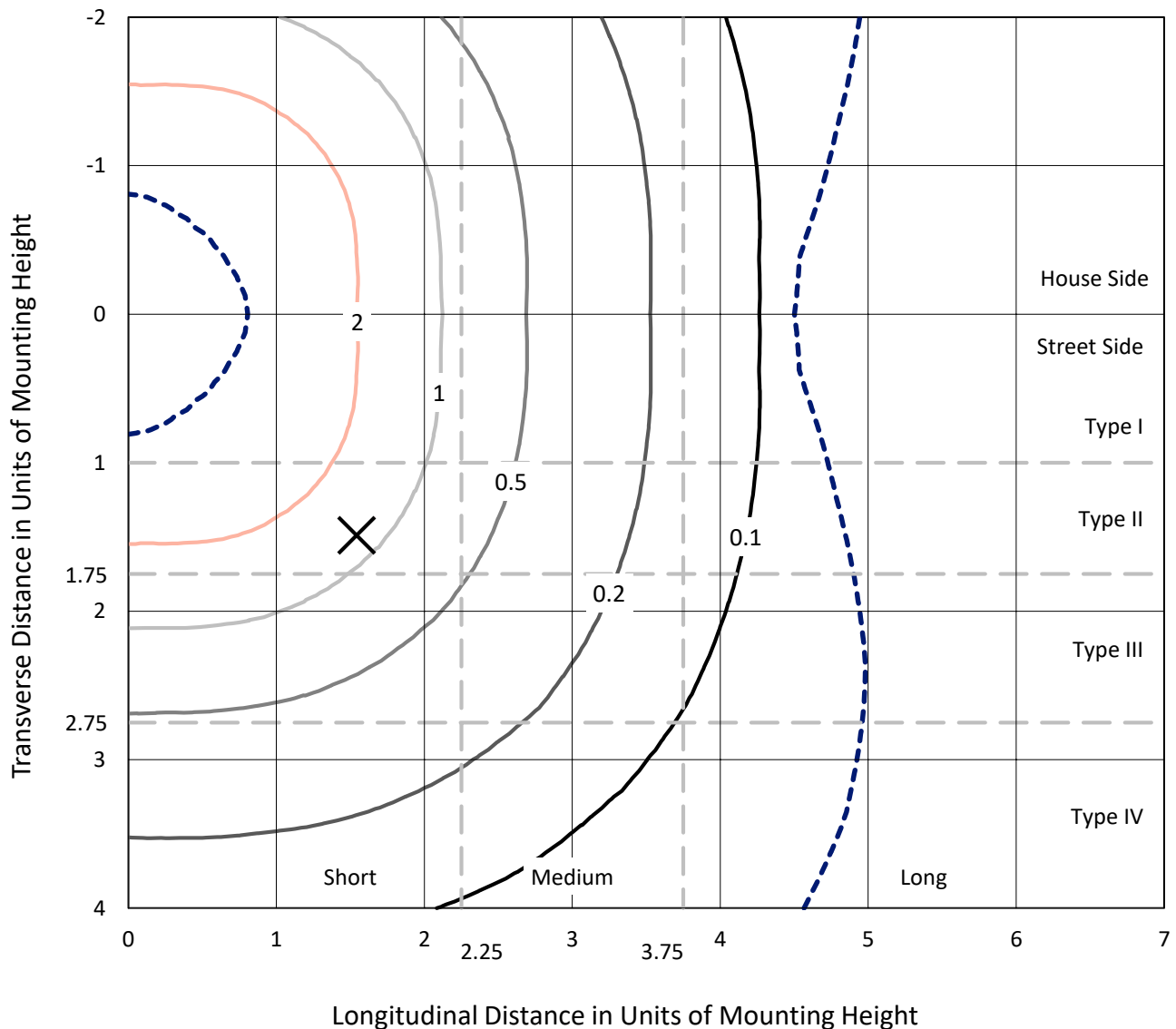


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

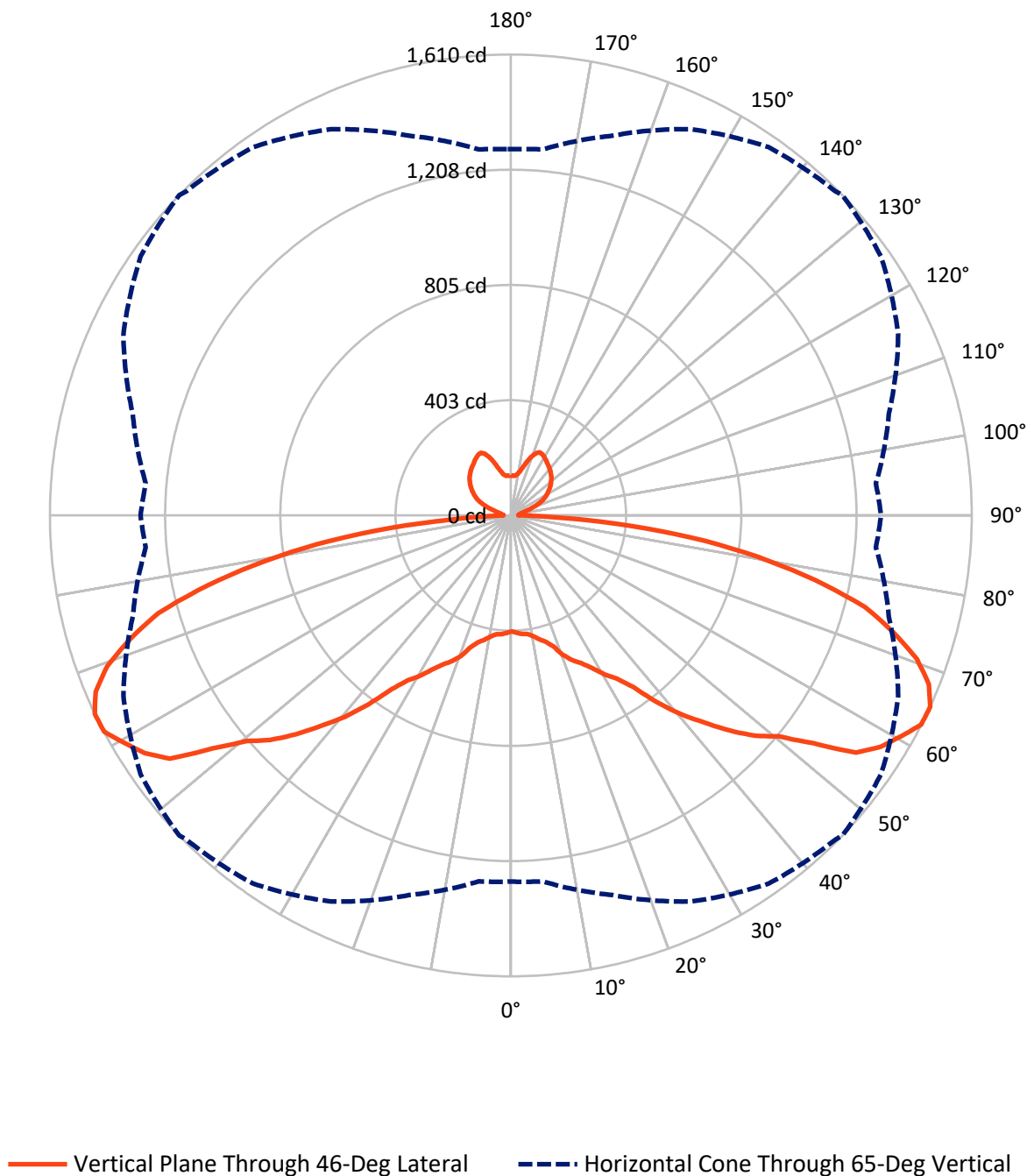


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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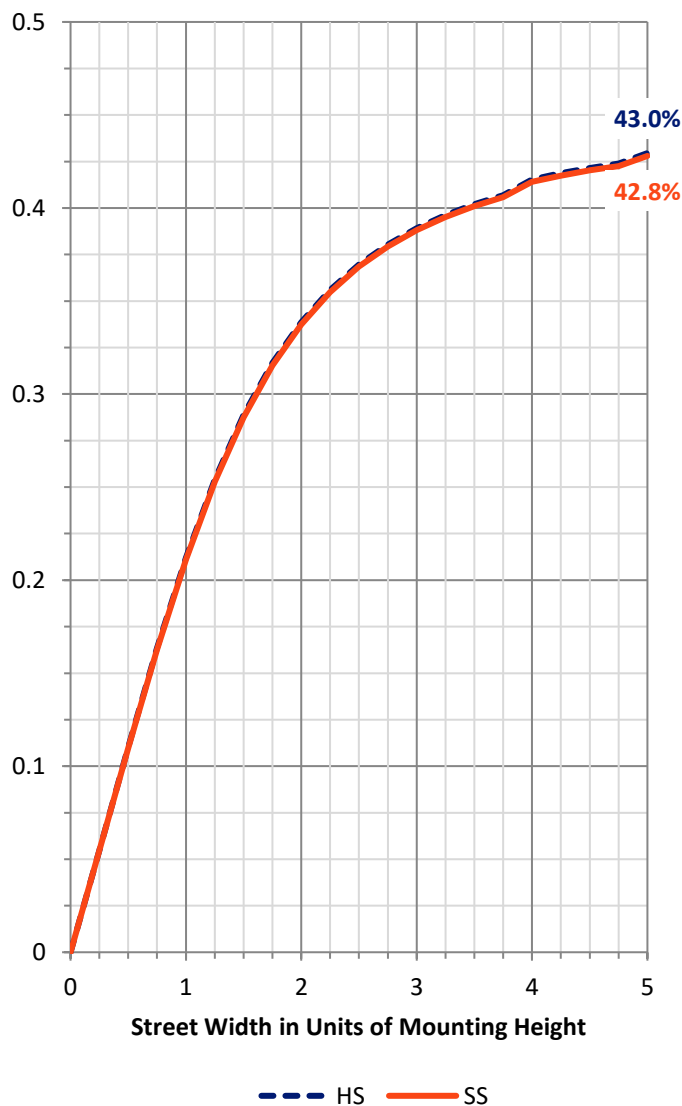
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2893.2	412.6	3305.8
	% Fixture	43.8	6.2	50.0
Street Side	Lumens	2893.2	412.6	3305.8
	% Fixture	43.8	6.2	50.0
Total	Lumens	5786.3	825.3	6611.6
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	0.6
10°-20°	133.5	2.0
20°-30°	268.6	4.1
30°-40°	467.7	7.1
40°-50°	791.1	12.0
50°-60°	1179.1	17.8
60°-70°	1411.1	21.3
70°-80°	1142.5	17.3
80°-90°	352.5	5.3
90°-100°	38.4	0.6
100°-110°	59.5	0.9
110°-120°	119.6	1.8
120°-130°	148.9	2.3
130°-140°	153.3	2.3
140°-150°	136.3	2.1
150°-160°	103.9	1.6
160°-170°	51.8	0.8
170°-180°	13.6	0.2
0°-90°	5786.3	87.5
0°-180°	6611.6	100.0

Coefficient of Utilization



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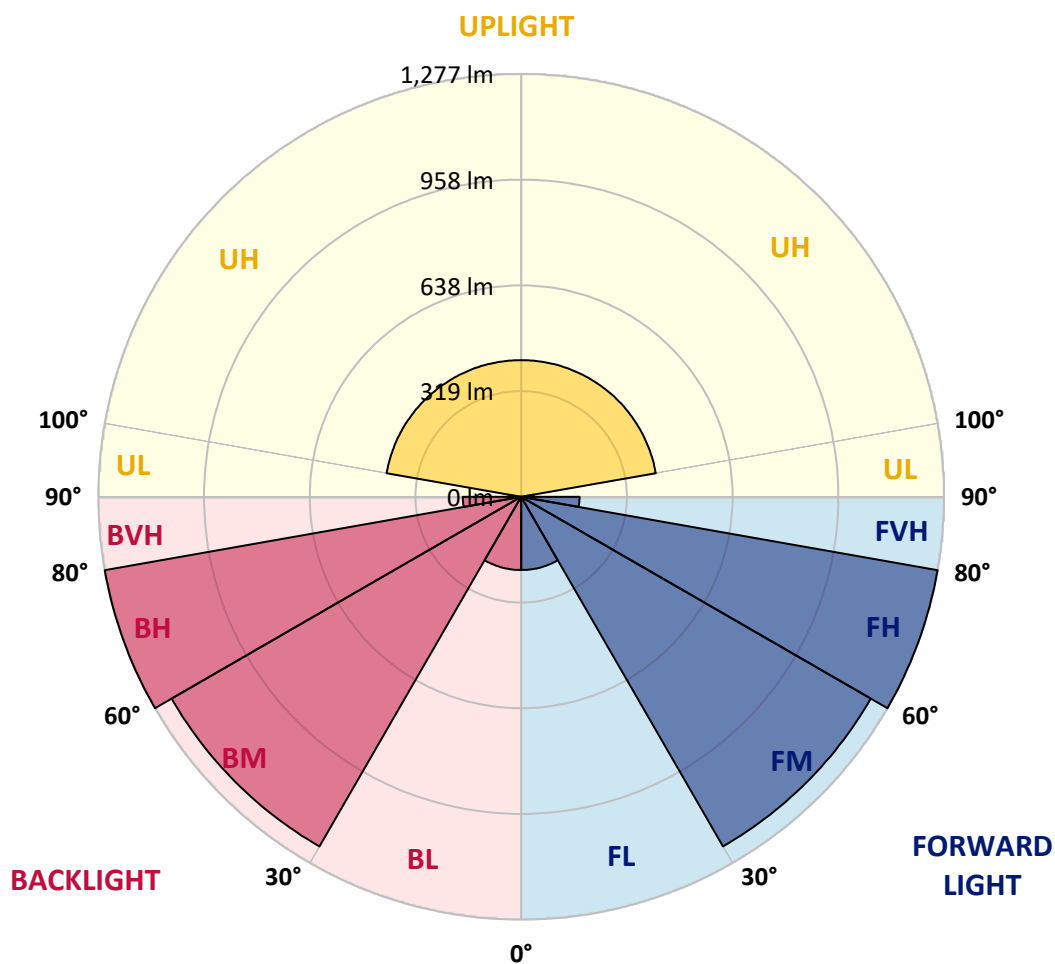
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.1	3.3			
FM	(30°-60°)	1219.0	18.4			
FH	(60°-80°)	1276.8	19.3			G1/1800
FVH	(80°-90°)	176.2	2.7			G2/225
BL	(0°-30°)	221.1	3.3	B1/500		
BM	(30°-60°)	1219.0	18.4	B2/2500		
BH	(60°-80°)	1276.8	19.3	B3/2500		G1/1800
BVH	(80°-90°)	176.2	2.7			G2/225
UL	(90°-100°)	38.4	0.6		U2/50	
UH	(100°-180°)	412.6	6.2		U3/500	

BUG Rating: B3-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	405	405	405	405	405	405	405	405	405	405	405
2.5°	412	411	411	411	411	411	411	411	411	411	412
5°	419	419	418	417	417	416	416	416	417	418	418
7.5°	422	421	421	420	419	419	418	419	420	421	421
10°	428	429	430	431	432	431	429	431	431	430	428
12.5°	442	442	445	448	448	447	444	448	447	444	442
15°	461	462	462	465	463	461	458	463	463	461	460
17.5°	488	486	483	485	487	487	481	487	483	481	484
20°	518	517	516	518	526	523	520	524	519	512	514
22.5°	541	543	546	549	557	555	549	556	548	546	540
25°	570	569	577	577	582	579	572	582	574	577	568
27.5°	599	598	604	604	613	612	603	613	604	602	599
30°	632	630	631	639	652	652	644	649	639	629	628
32.5°	667	663	669	682	689	687	679	687	684	667	663
35°	701	706	717	728	741	743	736	740	729	716	706
37.5°	758	766	780	806	826	832	826	824	808	779	765
40°	838	840	859	898	919	923	912	915	896	864	834
42.5°	903	900	934	969	991	1000	988	992	966	935	902
45°	956	959	994	1029	1064	1081	1072	1065	1027	992	963
47.5°	1005	1019	1043	1094	1138	1157	1150	1140	1100	1042	1020
50°	1067	1076	1105	1171	1212	1219	1213	1213	1175	1108	1078
52.5°	1134	1135	1178	1246	1298	1326	1321	1307	1247	1188	1139
55°	1214	1203	1270	1341	1419	1465	1463	1433	1351	1273	1208
57.5°	1259	1261	1322	1429	1504	1517	1524	1506	1444	1324	1273
60°	1269	1293	1349	1467	1526	1564	1566	1536	1471	1357	1303
62.5°	1273	1302	1371	1465	1565	1602	1609	1578	1473	1374	1295
65°	1279	1283	1373	1488	1570	1602	1610	1578	1493	1367	1280
67.5°	1254	1244	1323	1448	1528	1566	1575	1537	1451	1325	1257
70°	1164	1168	1256	1375	1463	1499	1505	1464	1374	1265	1186
72.5°	1069	1079	1153	1273	1352	1387	1398	1355	1279	1167	1085
75°	937	956	1027	1135	1214	1267	1278	1222	1131	1034	955
77.5°	791	804	872	965	1050	1077	1087	1060	970	884	810
80°	622	627	696	770	836	858	873	839	778	700	628
82.5°	427	434	483	551	609	618	637	609	552	492	438
85°	222	232	270	307	352	363	369	348	318	269	233
87.5°	48	53	59	76	91	104	113	94	75	63	48
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°	45°	46°	55°	65°	75°	85°
112.5°	101	102	108	107	110	107	106	102	105	100	95
115°	121	122	128	128	129	124	123	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	177	176	175	173	166
130°	187	188	191	179	186	186	185	183	183	184	171
132.5°	198	199	201	186	193	195	194	190	192	192	179
135°	210	210	209	192	199	201	200	196	201	199	185
137.5°	221	219	213	197	205	208	207	203	210	204	191
140°	229	226	216	200	207	213	213	212	217	209	195
142.5°	235	231	218	201	208	218	218	220	223	211	198
145°	235	230	218	202	211	223	223	230	227	211	201
147.5°	230	227	219	207	216	229	230	239	229	212	204
150°	224	221	220	214	222	235	236	242	232	214	210
152.5°	216	214	221	220	230	241	241	242	235	219	215
155°	208	207	219	224	237	243	242	238	234	224	220
157.5°	203	203	216	224	234	235	234	228	229	226	222
160°	199	198	210	213	219	219	218	215	219	221	218
162.5°	185	184	193	193	198	198	198	196	200	204	207
165°	169	167	173	173	176	177	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°
0°	405
2.5°	411
5°	418
7.5°	421
10°	428
12.5°	441
15°	461
17.5°	486
20°	513
22.5°	537
25°	566
27.5°	599
30°	633
32.5°	661
35°	700
37.5°	764
40°	841
42.5°	903
45°	954
47.5°	1011
50°	1068
52.5°	1141
55°	1213
57.5°	1250
60°	1273
62.5°	1291
65°	1293
67.5°	1241
70°	1162
72.5°	1072
75°	940
77.5°	801
80°	622
82.5°	437
85°	229
87.5°	45
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)