

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: P198407

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198407
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-SG-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5636.7 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - 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



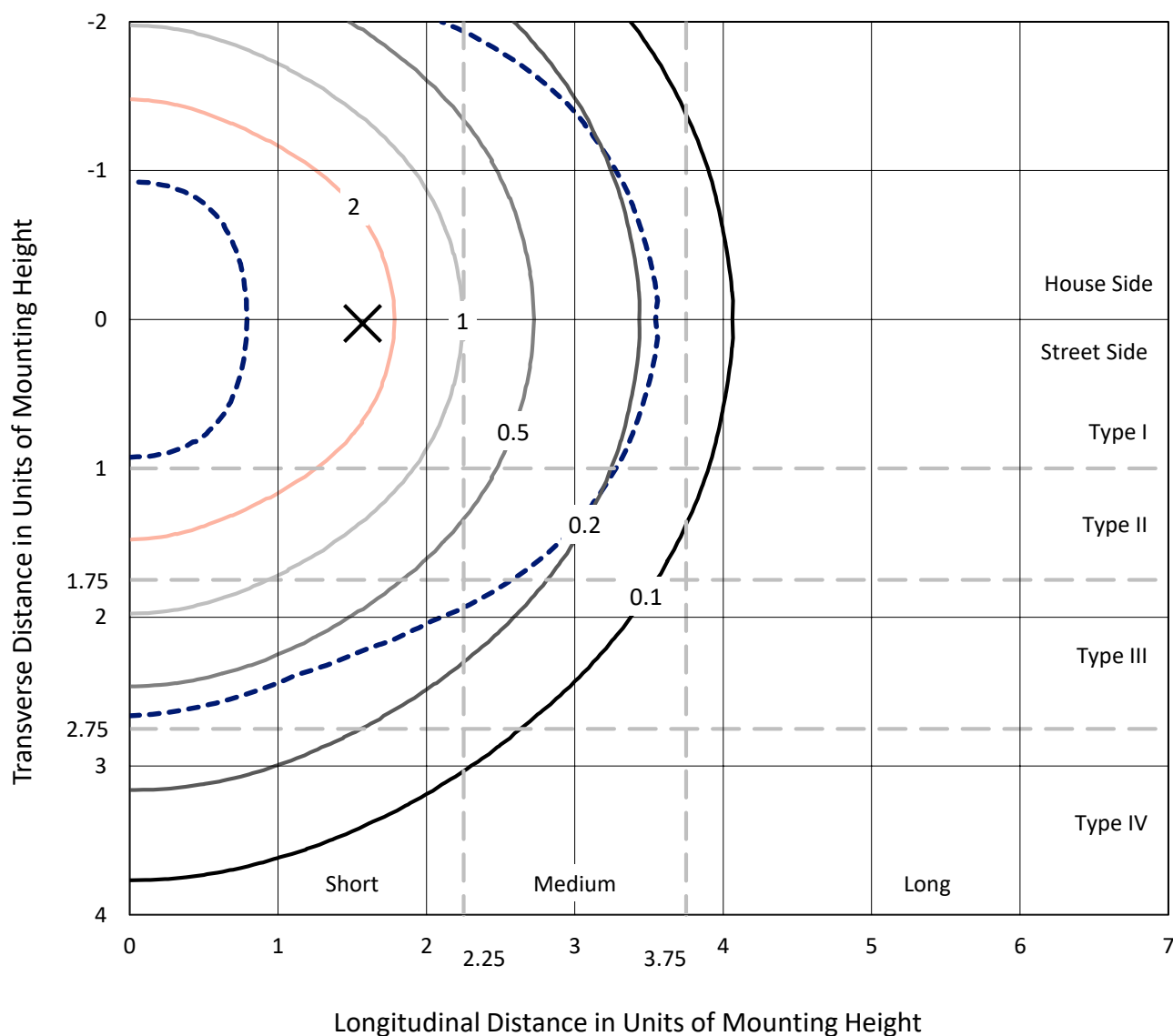
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

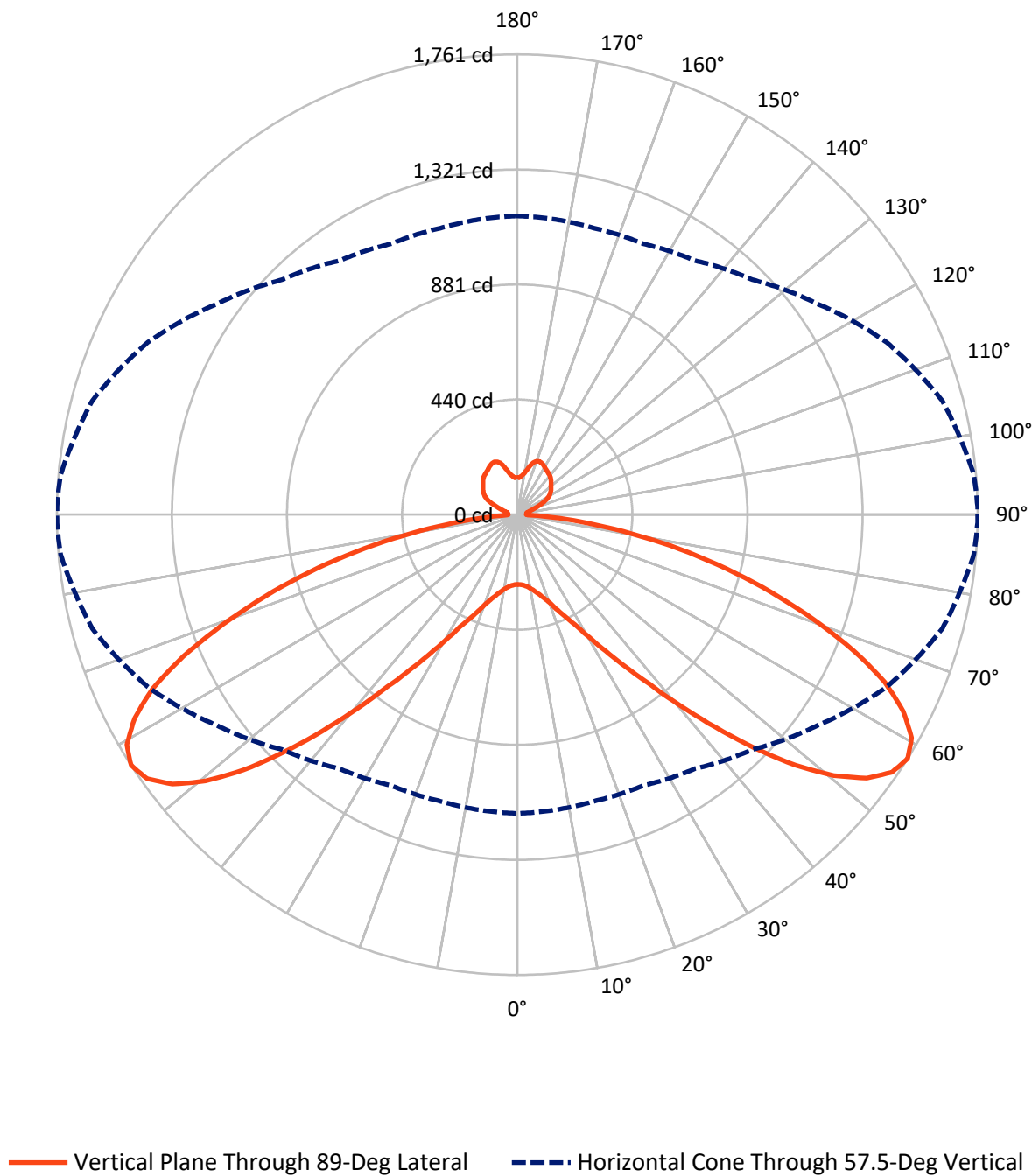


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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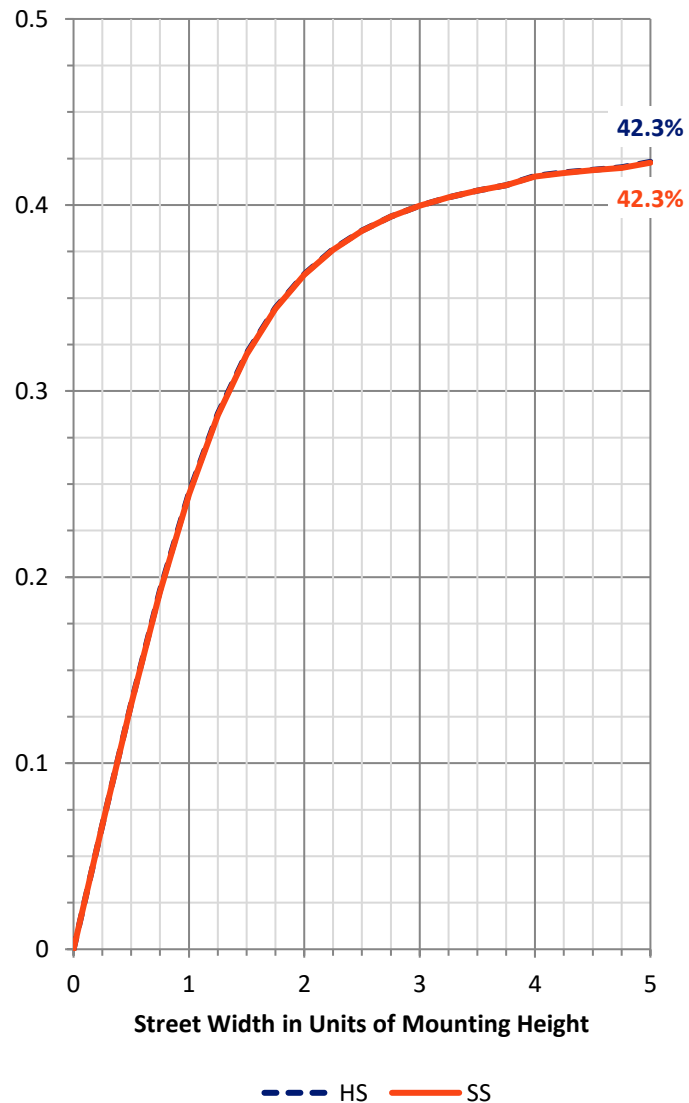
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.7	412.7	2818.4
	% Fixture	42.7	7.3	50.0
Street Side	Lumens	2405.7	412.7	2818.4
	% Fixture	42.7	7.3	50.0
Total	Lumens	4811.4	825.3	5636.7
	% Fixture	85.4	14.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	0.5
10°-20°	92.6	1.6
20°-30°	207.3	3.7
30°-40°	429.1	7.6
40°-50°	814.5	14.5
50°-60°	1191.9	21.1
60°-70°	1188.3	21.1
70°-80°	707.3	12.5
80°-90°	154.0	2.7
90°-100°	38.4	0.7
100°-110°	59.5	1.1
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°	4811.4	85.4
0°-180°	5636.7	100.0

Coefficient of Utilization



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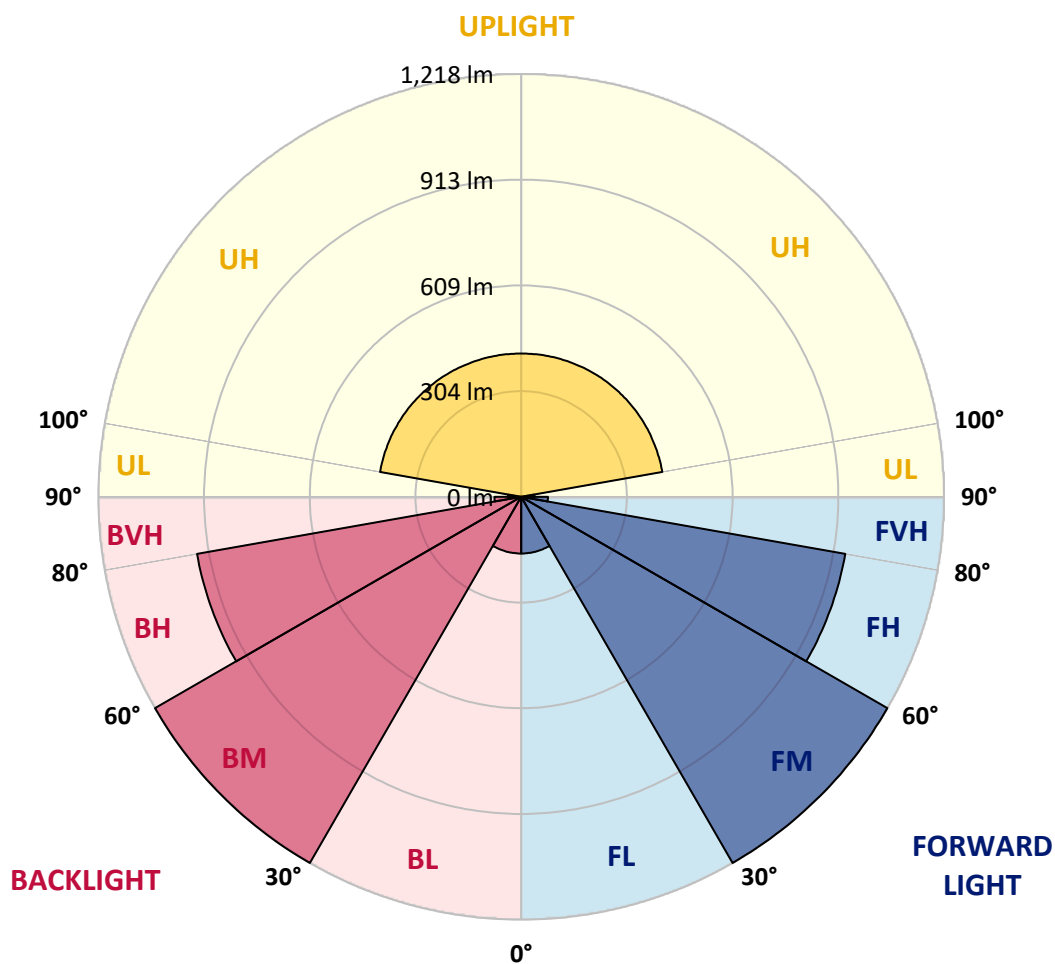
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.2	2.9			
FM	(30°-60°)	1217.7	21.6			
FH	(60°-80°)	947.8	16.8			G1/1800
FVH	(80°-90°)	77.0	1.4			G1/100
BL	(0°-30°)	163.2	2.9	B1/500		
BM	(30°-60°)	1217.7	21.6	B2/2500		
BH	(60°-80°)	947.8	16.8	B2/1000		G2/1000
BVH	(80°-90°)	77.0	1.4			G1/100
UL	(90°-100°)	38.4	0.7		U2/50	
UH	(100°-180°)	412.7	7.3		U3/500	

BUG Rating: B2-U4-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	267	267	267	267	267	267	267	267	267	267	267
2.5°	269	269	269	269	268	268	268	268	268	268	268
5°	273	273	272	273	272	272	272	272	272	272	272
7.5°	279	279	279	279	279	279	278	279	278	278	278
10°	290	289	290	289	289	288	288	288	288	288	288
12.5°	304	304	304	303	302	302	301	301	301	300	301
15°	323	324	321	320	320	318	317	318	317	316	317
17.5°	346	347	345	343	341	340	339	338	338	338	337
20°	376	376	374	370	367	365	365	364	364	365	362
22.5°	410	409	407	405	401	397	395	394	394	396	397
25°	452	453	447	443	439	432	431	432	433	433	435
27.5°	495	497	492	486	480	477	475	477	479	482	481
30°	546	545	544	535	528	525	527	533	538	545	546
32.5°	601	603	596	589	586	583	586	599	613	617	622
35°	666	662	658	653	648	648	663	678	700	715	715
37.5°	732	729	722	715	715	725	740	777	809	831	822
40°	800	796	794	786	787	811	843	889	935	966	960
42.5°	869	870	863	860	869	896	952	1014	1072	1111	1112
45°	940	940	935	933	950	991	1061	1146	1224	1269	1274
47.5°	1005	1004	1000	999	1028	1077	1165	1274	1370	1420	1433
50°	1061	1062	1056	1061	1087	1152	1258	1390	1500	1563	1569
52.5°	1105	1106	1099	1103	1138	1213	1331	1479	1599	1666	1674
55°	1135	1131	1126	1132	1172	1255	1384	1538	1663	1733	1739
57.5°	1143	1140	1135	1143	1186	1271	1404	1559	1683	1753	1761
60°	1131	1131	1125	1134	1177	1260	1390	1540	1658	1722	1733
62.5°	1100	1100	1093	1100	1141	1218	1342	1481	1588	1644	1657
65°	1042	1041	1037	1039	1073	1146	1259	1385	1478	1528	1545
67.5°	958	955	951	955	980	1045	1149	1259	1336	1384	1388
70°	851	848	843	841	867	919	1003	1100	1164	1199	1203
72.5°	724	728	724	718	735	781	851	925	978	1010	1015
75°	599	600	590	588	601	630	687	744	790	817	825
77.5°	464	464	455	450	457	482	521	567	605	622	636
80°	334	334	326	314	321	334	369	394	424	443	445
82.5°	209	206	208	199	201	205	227	244	262	272	273
85°	109	105	103	98	95	102	112	124	128	137	134
87.5°	34	32	31	31	28	30	31	33	38	38	40
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°	267
2.5°	268
5°	272
7.5°	278
10°	288
12.5°	300
15°	317
17.5°	338
20°	362
22.5°	394
25°	433
27.5°	479
30°	545
32.5°	619
35°	709
37.5°	832
40°	959
42.5°	1119
45°	1274
47.5°	1433
50°	1566
52.5°	1671
55°	1742
57.5°	1761
60°	1730
62.5°	1654
65°	1543
67.5°	1388
70°	1209
72.5°	1012
75°	816
77.5°	632
80°	445
82.5°	281
85°	134
87.5°	43
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)