

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: P198394

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198394
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-LWR-LW-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101.7 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - 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

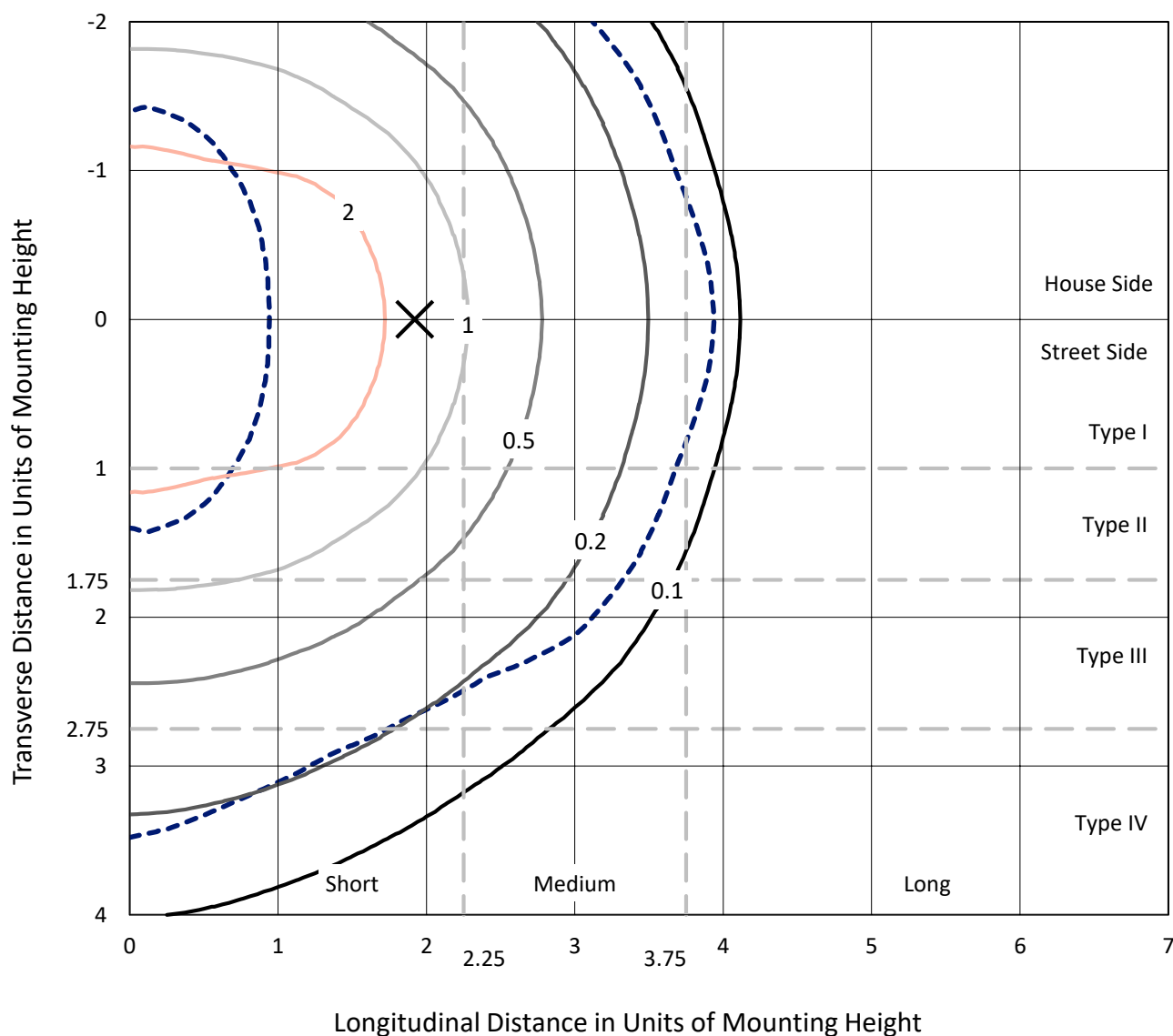


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

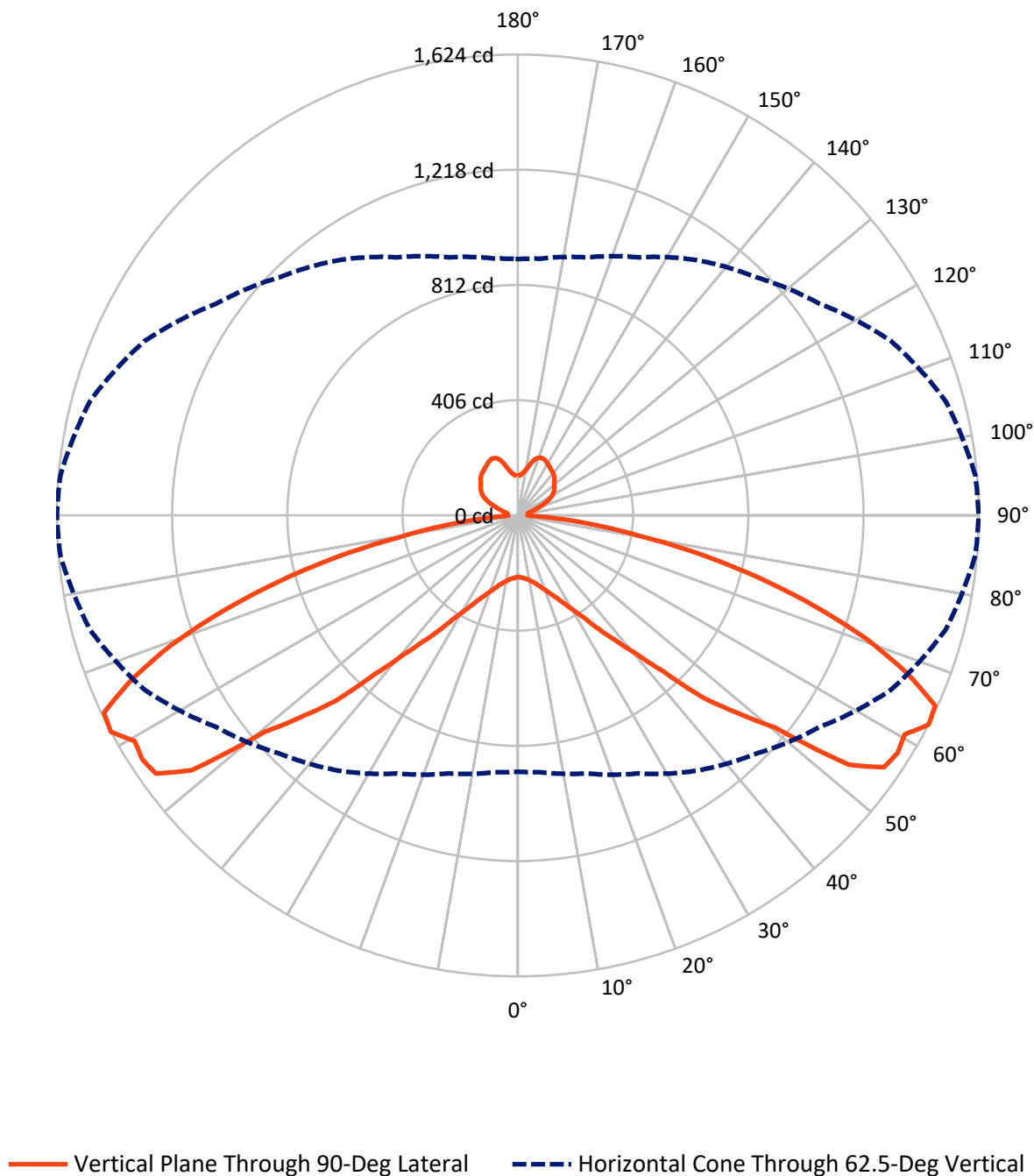


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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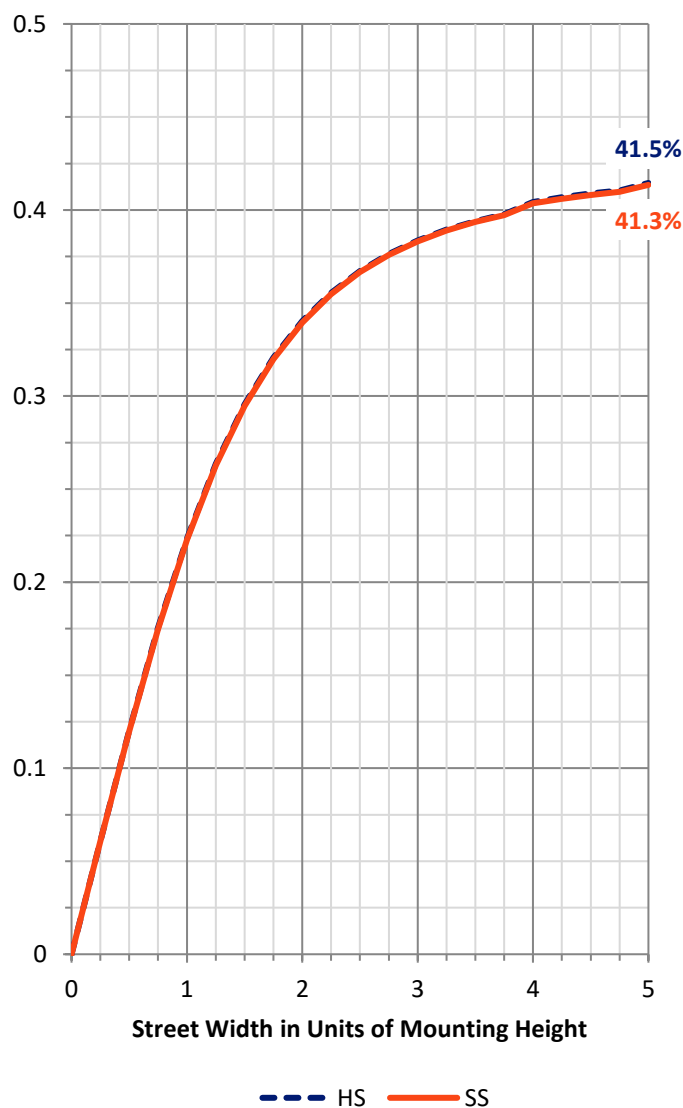
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2138.2	412.7	2550.9
	% Fixture	41.9	8.1	50.0
Street Side	Lumens	2138.2	412.7	2550.9
	% Fixture	41.9	8.1	50.0
Total	Lumens	4276.4	825.3	5101.7
	% Fixture	83.8	16.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	0.4
10°-20°	73.5	1.4
20°-30°	157.1	3.1
30°-40°	305.5	6.0
40°-50°	576.1	11.3
50°-60°	984.4	19.3
60°-70°	1185.4	23.2
70°-80°	797.8	15.6
80°-90°	175.0	3.4
90°-100°	38.4	0.8
100°-110°	59.5	1.2
110°-120°	119.6	2.3
120°-130°	148.9	2.9
130°-140°	153.3	3.0
140°-150°	136.3	2.7
150°-160°	103.9	2.0
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4276.4	83.8
0°-180°	5101.7	100.0

Coefficient of Utilization



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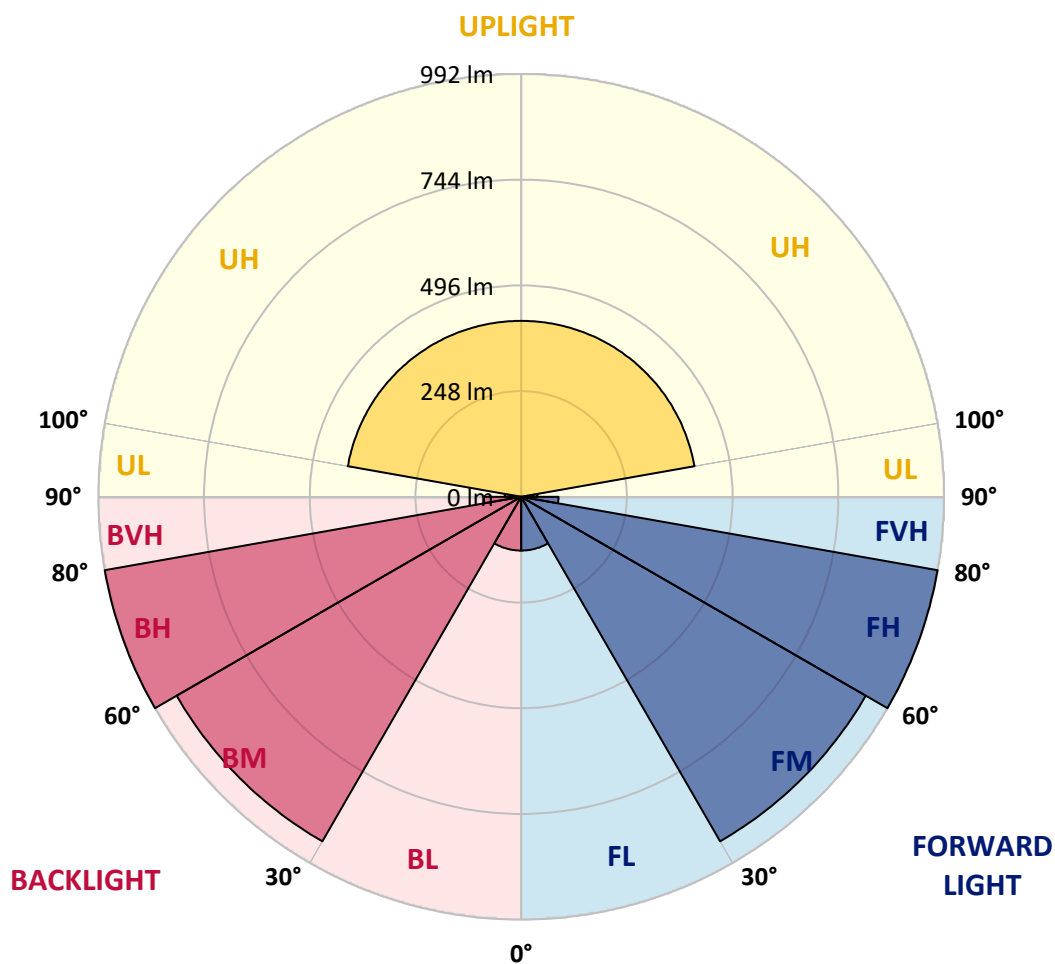
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	126.1	2.5			
FM	(30°-60°)	933.0	18.3			
FH	(60°-80°)	991.6	19.4			G1/1800
FVH	(80°-90°)	87.5	1.7			G1/100
BL	(0°-30°)	126.1	2.5	B1/500		
BM	(30°-60°)	933.0	18.3	B1/1000		
BH	(60°-80°)	991.6	19.4	B2/1000		G2/1000
BVH	(80°-90°)	87.5	1.7			G1/100
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.1		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	216	216	216	216	216	216	216	216	216	216	216
2.5°	218	218	218	218	218	218	219	219	219	219	219
5°	221	221	222	222	223	223	223	223	222	222	222
7.5°	226	226	227	228	228	227	227	226	226	226	226
10°	234	234	235	235	234	234	234	233	233	233	233
12.5°	243	244	245	244	243	242	242	241	241	241	241
15°	256	258	257	257	256	254	253	252	252	252	252
17.5°	276	276	273	271	269	268	267	266	266	266	266
20°	297	296	293	290	287	286	283	282	283	282	282
22.5°	322	321	317	314	310	306	305	302	301	300	301
25°	347	348	345	342	336	332	328	326	324	323	323
27.5°	376	378	376	370	364	361	355	353	352	353	353
30°	407	408	405	402	396	389	385	386	386	389	388
32.5°	445	444	440	438	432	426	424	425	429	431	431
35°	487	484	480	476	471	467	468	476	488	491	493
37.5°	529	524	524	518	514	517	523	538	547	561	558
40°	568	569	567	562	561	571	584	603	626	640	639
42.5°	604	613	607	608	613	629	650	687	733	751	751
45°	644	655	650	653	667	692	737	810	873	916	916
47.5°	685	695	693	699	724	768	837	928	991	1033	1039
50°	737	733	734	749	792	856	944	1034	1138	1163	1175
52.5°	782	770	777	802	864	939	1048	1207	1351	1451	1459
55°	819	810	824	859	939	1038	1180	1375	1494	1555	1566
57.5°	851	847	870	915	1017	1138	1282	1440	1523	1570	1578
60°	880	883	908	968	1078	1189	1305	1438	1521	1558	1566
62.5°	903	908	941	1003	1098	1187	1299	1452	1560	1618	1624
65°	918	923	960	1003	1092	1178	1336	1466	1546	1605	1616
67.5°	920	927	949	985	1060	1136	1272	1366	1430	1466	1476
70°	908	906	914	929	974	1026	1141	1211	1257	1294	1303
72.5°	862	859	840	823	840	881	980	1027	1058	1088	1094
75°	774	760	713	689	684	720	796	826	838	872	876
77.5°	619	613	573	531	527	549	607	620	610	647	658
80°	452	444	406	375	367	382	416	419	412	430	430
82.5°	289	281	265	242	225	234	260	260	260	265	268
85°	149	146	134	123	117	119	128	129	134	137	133
87.5°	42	44	42	37	36	35	39	40	43	45	47
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°	90°
112.5°	101	102	108	107	110	107	102	105	100	95	94
115°	121	122	128	128	129	124	121	125	123	116	113
117.5°	140	141	144	141	141	136	138	141	139	133	129
120°	152	153	155	149	149	147	150	153	148	145	142
122.5°	161	162	164	154	155	158	159	162	155	153	150
125°	169	169	172	163	165	168	167	168	163	160	158
127.5°	177	177	181	171	176	178	176	175	173	166	163
130°	187	188	191	179	186	186	183	183	184	171	169
132.5°	198	199	201	186	193	195	190	192	192	179	176
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	219
160°	199	198	210	213	219	219	215	219	221	218	215
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

(END OF REPORT)