

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: P198404

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198404
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-LWR-LW-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING 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: 5156.7 lumens
Efficiency: N/A
Efficacy: 82.6 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

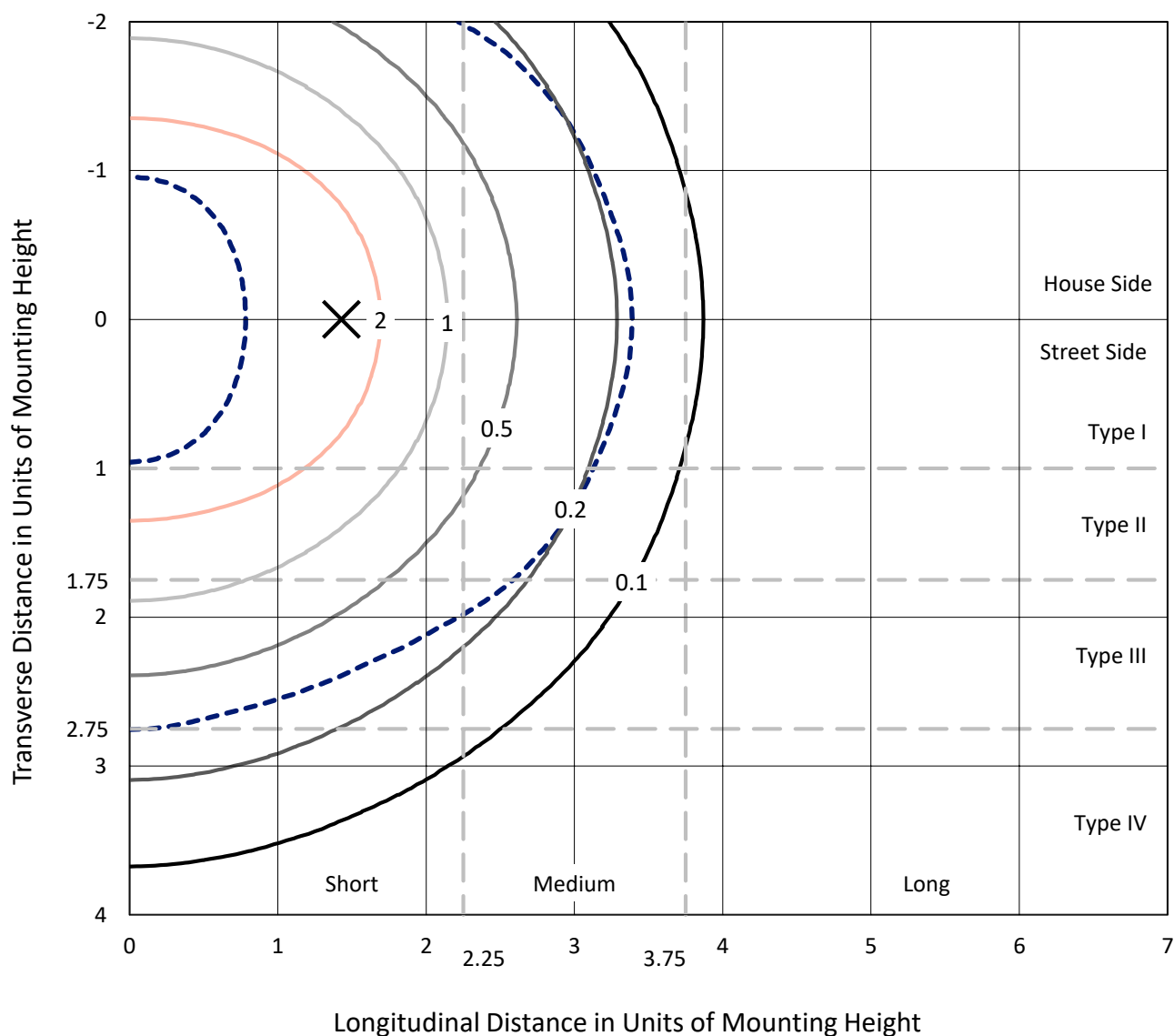


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

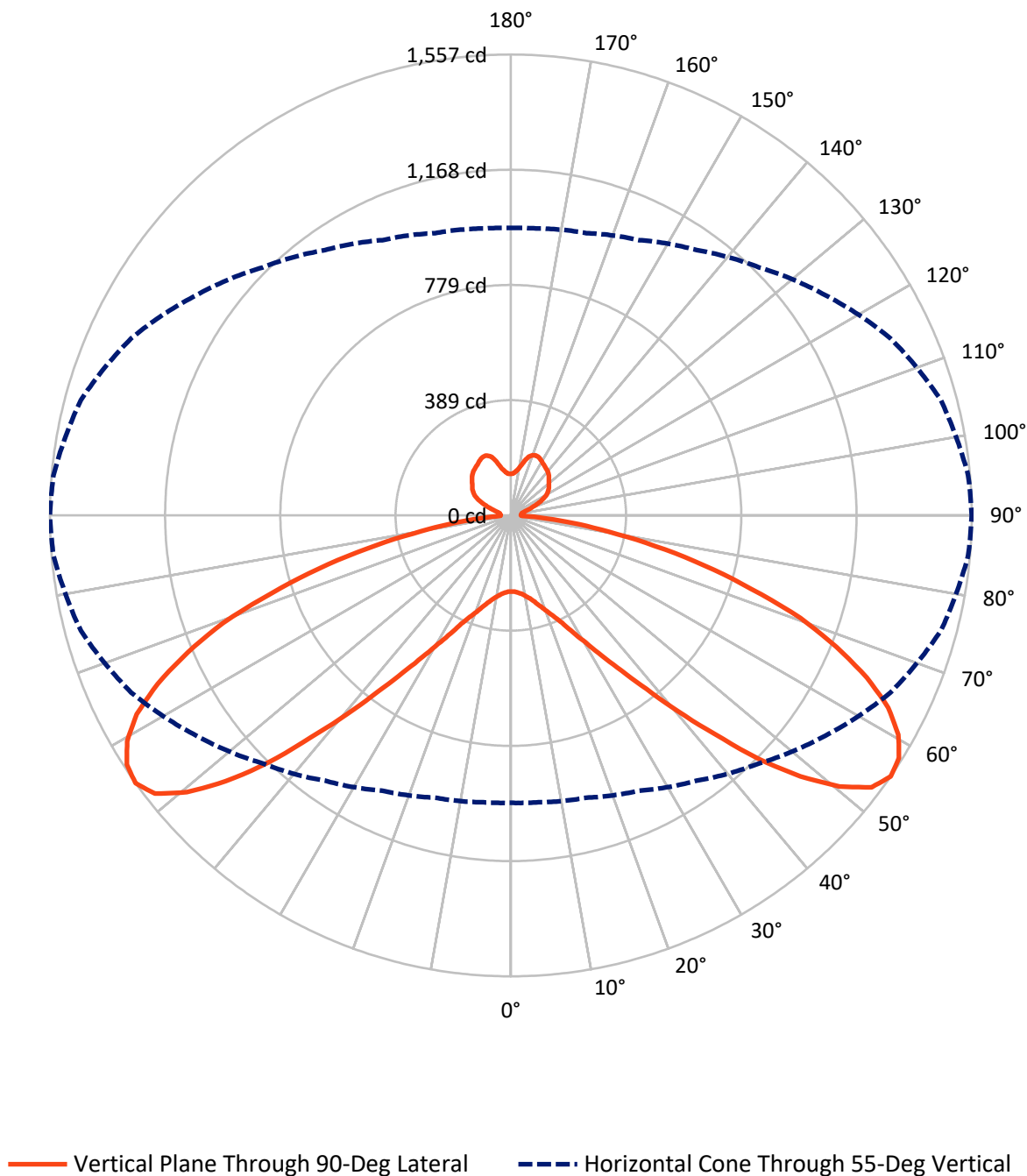


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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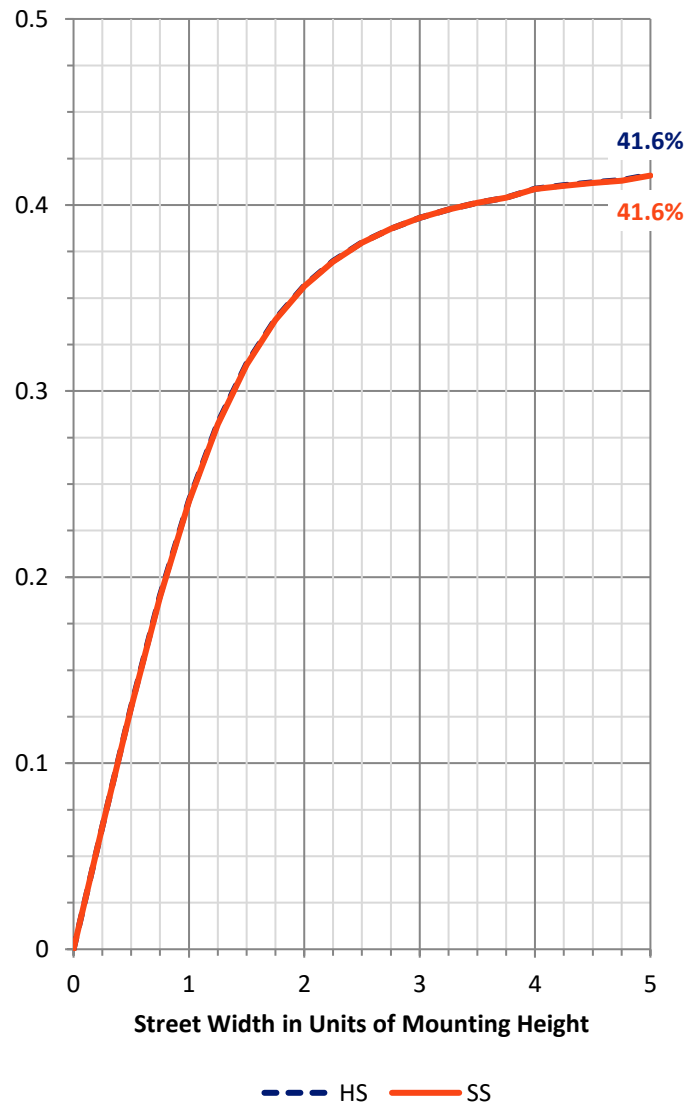
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.7	412.7	2578.3
	% Fixture	42.0	8.0	50.0
Street Side	Lumens	2165.7	412.7	2578.3
	% Fixture	42.0	8.0	50.0
Total	Lumens	4331.4	825.3	5156.7
	% Fixture	84.0	16.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.5
10°-20°	88.3	1.7
20°-30°	193.0	3.7
30°-40°	388.0	7.5
40°-50°	733.3	14.2
50°-60°	1081.7	21.0
60°-70°	1065.4	20.7
70°-80°	620.4	12.0
80°-90°	135.7	2.6
90°-100°	38.4	0.7
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	2.6
150°-160°	103.9	2.0
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4331.4	84.0
0°-180°	5156.7	100.0

Coefficient of Utilization



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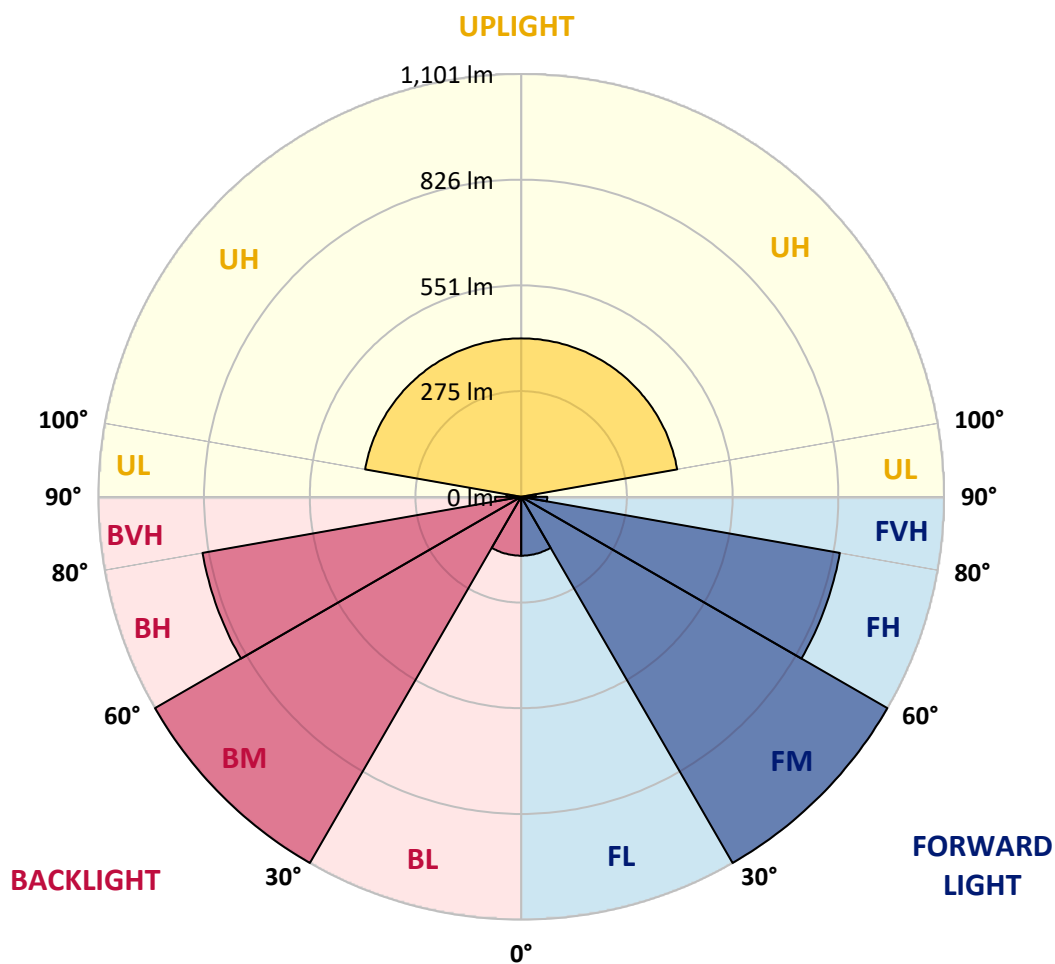
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	153.4	3.0			
FM	(30°-60°)	1101.5	21.4			
FH	(60°-80°)	842.9	16.3			G1/1800
FVH	(80°-90°)	67.9	1.3			G1/100
BL	(0°-30°)	153.4	3.0	B1/500		
BM	(30°-60°)	1101.5	21.4	B2/2500		
BH	(60°-80°)	842.9	16.3	B2/1000		G2/1000
BVH	(80°-90°)	67.9	1.3			G1/100
UL	(90°-100°)	38.4	0.7		U2/50	
UH	(100°-180°)	412.7	8.0		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°	90°
0°	257	257	257	257	257	257	257	257	257	257	257
2.5°	259	259	259	259	258	259	258	258	258	258	258
5°	262	263	262	262	262	262	262	262	261	261	262
7.5°	269	269	269	269	268	269	268	268	268	268	268
10°	279	279	279	279	278	278	278	277	277	277	277
12.5°	291	292	292	291	290	290	289	289	289	289	288
15°	309	308	308	306	306	304	305	304	303	302	303
17.5°	327	328	328	326	325	324	322	322	321	322	322
20°	355	355	353	351	348	347	345	345	343	345	345
22.5°	383	383	381	380	376	373	372	371	370	372	370
25°	418	418	416	412	408	407	404	404	405	406	402
27.5°	454	455	453	450	446	442	442	443	444	448	447
30°	498	497	494	490	488	485	486	490	494	498	498
32.5°	543	542	541	537	536	535	540	548	556	559	564
35°	591	591	590	587	589	594	602	617	629	643	643
37.5°	644	642	643	643	648	657	676	705	730	744	744
40°	699	696	697	702	711	733	766	806	846	864	870
42.5°	752	749	753	758	780	814	863	924	981	1009	1008
45°	801	803	808	820	852	902	972	1054	1128	1161	1173
47.5°	850	851	858	879	924	987	1072	1181	1263	1302	1317
50°	896	898	910	940	993	1069	1174	1290	1380	1426	1439
52.5°	937	939	953	990	1053	1141	1251	1370	1465	1518	1526
55°	971	973	987	1026	1094	1185	1297	1415	1504	1551	1557
57.5°	991	992	1007	1047	1114	1199	1307	1421	1499	1541	1546
60°	992	994	1008	1044	1106	1184	1287	1389	1460	1498	1504
62.5°	974	975	987	1015	1068	1136	1231	1323	1387	1424	1431
65°	933	933	939	960	1001	1059	1140	1225	1284	1318	1322
67.5°	865	865	866	880	908	954	1023	1094	1147	1181	1186
70°	778	777	769	778	796	835	896	950	993	1020	1038
72.5°	668	664	658	656	674	708	758	795	819	848	850
75°	540	538	530	530	548	575	615	640	652	671	675
77.5°	403	402	405	406	416	445	468	486	483	495	499
80°	282	284	284	283	293	304	329	334	330	334	334
82.5°	179	178	176	179	187	196	206	207	210	207	209
85°	90	89	91	92	96	101	110	112	107	107	105
87.5°	31	33	31	32	32	37	36	36	36	36	38
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)