

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: P821299

Luminaire Tested: **TT-D3-740-24VDC-MQ-UPL**

Issue Date: 7/23/2020

Test Information

Test Method: LM-79-08
Report Number: P821299
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-1) AND
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D3-740-24VDC-MQ-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

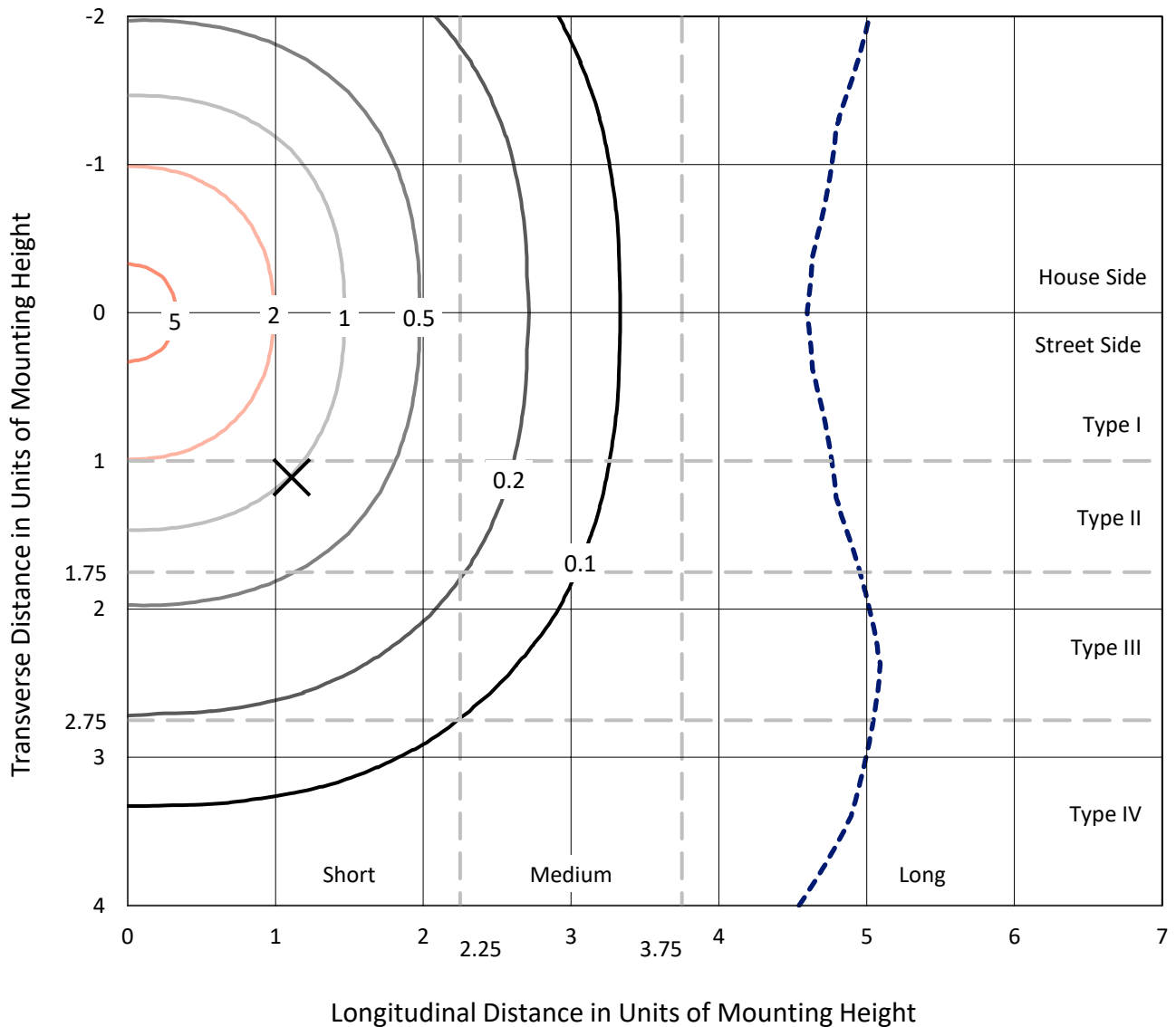
Lumens per Lamp: N/A
Luminaire Lumens: 7612.7 lumens
Efficiency: N/A
Efficacy: 165.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 46
Input Voltage (V): NR
Input Current (A_{in}): 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

REPORT NUMBER: P821299
 CATALOG NUMBER: TT-D3-740-24VDC-MQ-UPL

Iso-Footcandle Lines of Horizontal Illumination

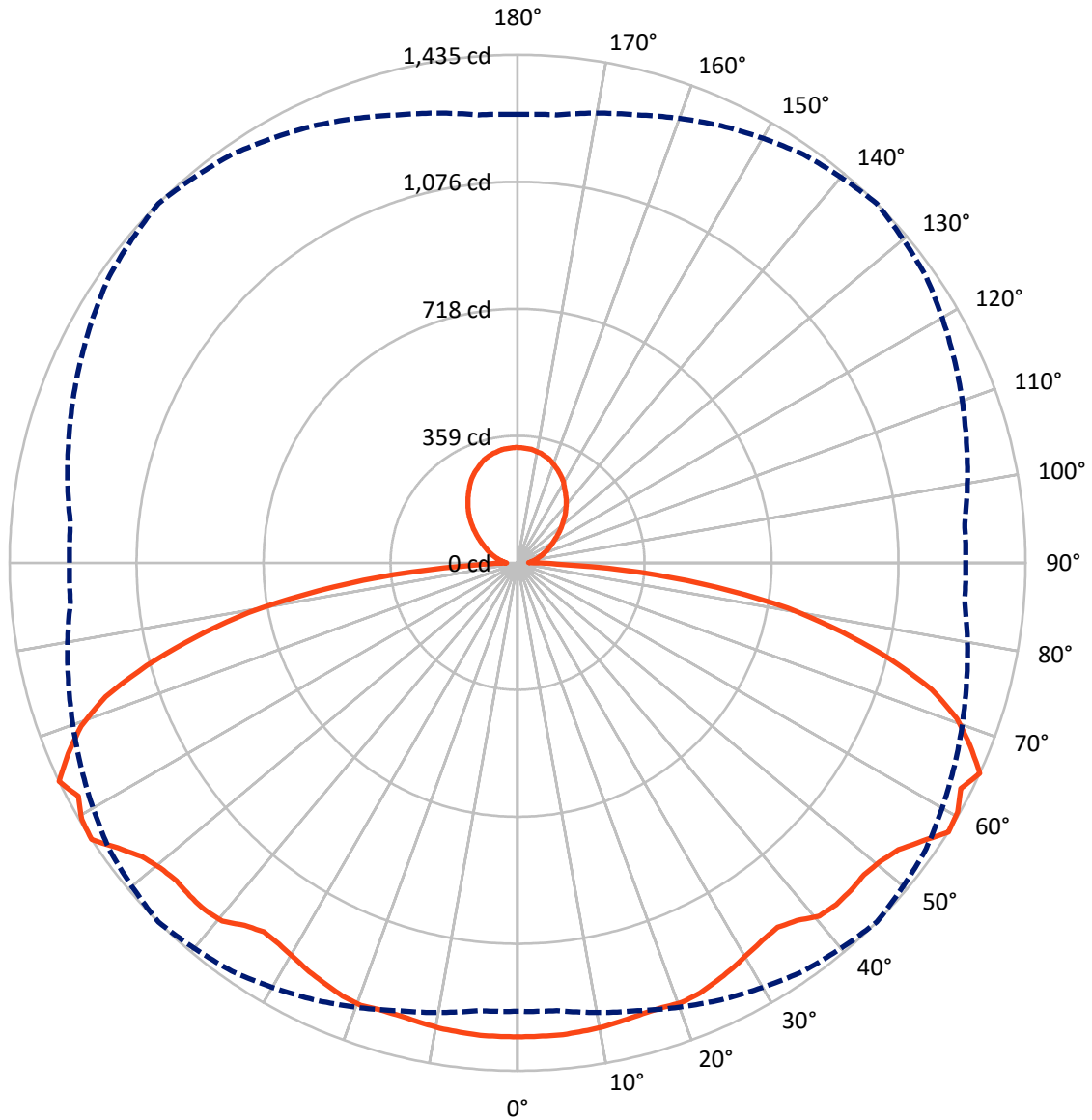
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

REPORT NUMBER: P821299
CATALOG NUMBER: TT-D3-740-24VDC-MQ-UPL

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P821299
 CATALOG NUMBER: TT-D3-740-24VDC-MQ-UPL

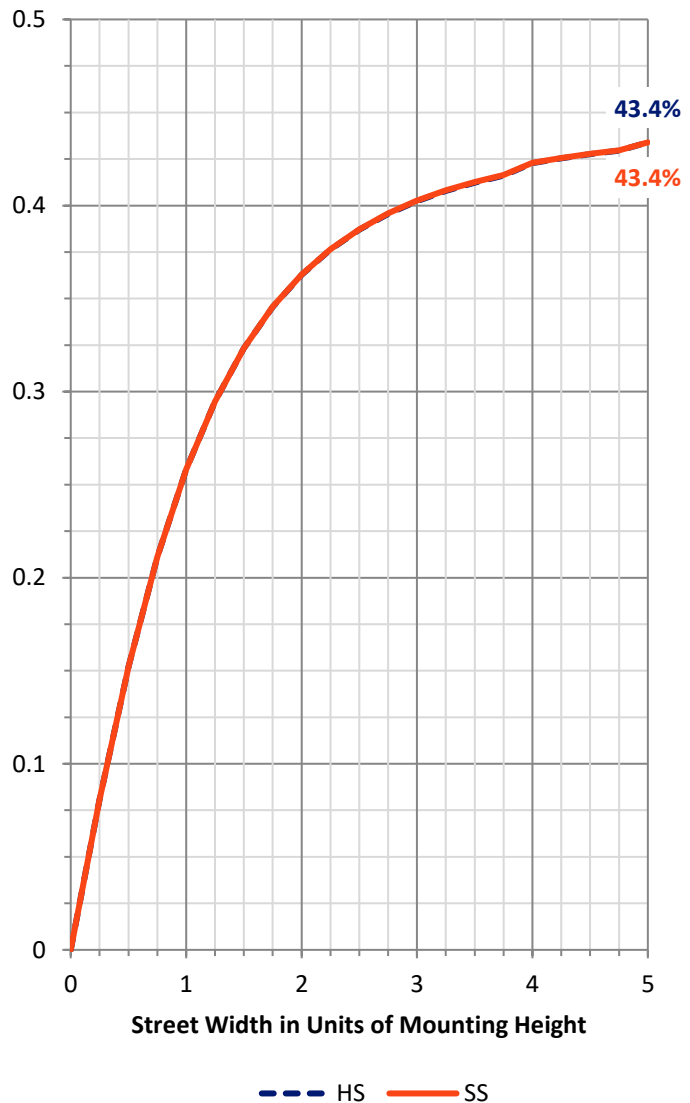
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3363.6	442.7	3806.3
	% Fixture	44.2	5.8	50.0
Street Side	Lumens	3363.6	442.7	3806.3
	% Fixture	44.2	5.8	50.0
Total	Lumens	6727.2	885.5	7612.7
	% Fixture	88.4	11.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	1.7
10°-20°	375.3	4.9
20°-30°	603.0	7.9
30°-40°	796.1	10.5
40°-50°	996.0	13.1
50°-60°	1184.7	15.6
60°-70°	1284.9	16.9
70°-80°	1022.8	13.4
80°-90°	336.7	4.4
90°-100°	45.4	0.6
100°-110°	70.3	0.9
110°-120°	97.7	1.3
120°-130°	126.6	1.7
130°-140°	147.6	1.9
140°-150°	149.5	2.0
150°-160°	129.8	1.7
160°-170°	87.7	1.2
170°-180°	30.8	0.4
0°-90°	6727.2	88.4
0°-180°	7612.7	100.0



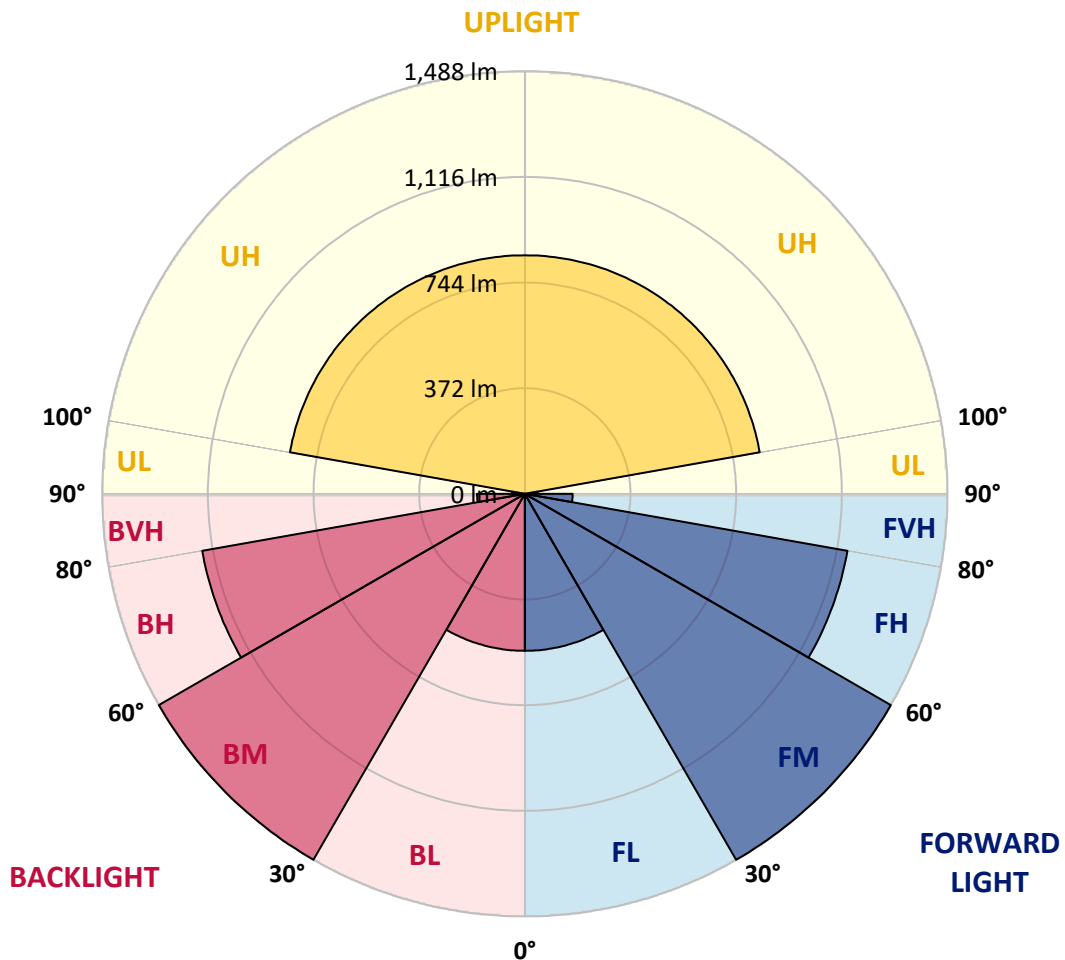
REPORT NUMBER: P821299
 CATALOG NUMBER: TT-D3-740-24VDC-MQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.0	7.3			
FM (30°-60°)	1488.4	19.6			
FH (60°-80°)	1153.8	15.2			G1/1800
FVH (80°-90°)	168.4	2.2			G2/225
BL (0°-30°)	553.0	7.3	B2/1000		
BM (30°-60°)	1488.4	19.6	B2/2500		
BH (60°-80°)	1153.8	15.2	B3/2500		G1/1800
BVH (80°-90°)	168.4	2.2			G2/225
UL (90°-100°)	45.4	0.6		U2/50	
UH (100°-180°)	840.1	11.0		U4/1000	

BUG Rating: B3-U4-G2

Type V Short





REPORT NUMBER: P821299
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339
2.5°	1341	1340	1341	1340	1340	1339	1340	1340	1340	1340	1340
5°	1340	1339	1339	1340	1339	1339	1339	1339	1339	1339	1339
7.5°	1336	1336	1337	1336	1336	1336	1336	1336	1336	1337	1337
10°	1333	1332	1333	1333	1332	1333	1332	1333	1333	1333	1333
12.5°	1329	1328	1329	1329	1328	1327	1328	1328	1329	1329	1329
15°	1322	1322	1324	1323	1323	1322	1324	1323	1322	1323	1323
17.5°	1317	1317	1319	1321	1321	1321	1321	1320	1318	1319	1317
20°	1318	1319	1320	1323	1325	1326	1326	1323	1320	1321	1320
22.5°	1315	1314	1315	1317	1320	1320	1320	1316	1315	1314	1314
25°	1303	1303	1305	1307	1309	1308	1309	1307	1305	1303	1303
27.5°	1289	1289	1292	1294	1296	1296	1295	1293	1292	1290	1289
30°	1275	1275	1278	1280	1283	1282	1282	1279	1276	1274	1274
32.5°	1260	1259	1262	1267	1271	1271	1271	1265	1261	1259	1258
35°	1247	1247	1251	1260	1265	1265	1263	1259	1250	1247	1247
37.5°	1243	1246	1257	1270	1280	1282	1279	1268	1256	1247	1244
40°	1256	1259	1273	1294	1309	1312	1309	1293	1272	1258	1257
42.5°	1258	1260	1277	1301	1315	1320	1315	1299	1276	1259	1258
45°	1251	1252	1272	1297	1314	1320	1314	1295	1271	1252	1251
47.5°	1242	1244	1266	1292	1313	1317	1312	1291	1264	1245	1242
50°	1235	1241	1261	1290	1315	1327	1315	1287	1260	1239	1235
52.5°	1239	1241	1267	1308	1342	1347	1341	1308	1265	1241	1238
55°	1251	1260	1288	1347	1378	1387	1374	1345	1289	1260	1251
57.5°	1267	1270	1310	1362	1408	1435	1409	1361	1313	1268	1266
60°	1254	1245	1295	1356	1418	1429	1414	1357	1293	1244	1253
62.5°	1219	1225	1266	1350	1393	1405	1389	1350	1264	1230	1216
65°	1191	1227	1272	1332	1401	1435	1402	1330	1274	1221	1188
67.5°	1152	1159	1226	1300	1362	1379	1361	1301	1220	1154	1159
70°	1086	1076	1144	1230	1289	1316	1291	1226	1141	1074	1083
72.5°	977	983	1046	1137	1198	1224	1199	1130	1044	989	983
75°	863	870	931	1014	1076	1087	1080	1009	933	869	863
77.5°	733	740	790	881	918	935	920	886	788	739	731
80°	589	587	631	709	755	774	755	711	629	591	578
82.5°	421	423	464	518	562	568	559	523	460	428	410
85°	234	243	273	313	342	352	337	303	272	247	239
87.5°	56	61	71	90	101	111	101	94	67	61	56
90°	32	31	31	31	31	31	31	31	31	31	31
92.5°	37	37	36	36	36	36	36	36	36	36	36
95°	42	42	42	41	41	41	41	41	41	41	41
97.5°	48	48	47	47	47	47	47	47	47	47	47
100°	53	53	53	53	53	53	53	53	53	53	53
102.5°	60	59	60	60	59	59	59	60	60	60	59
105°	66	66	66	66	66	66	66	67	66	66	66
107.5°	73	73	73	74	74	74	74	74	73	74	73
110°	80	80	81	81	81	81	81	81	81	81	81



REPORT NUMBER: P821299
 CATALOG NUMBER: TT-D3-740-24VDC-MQ-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89	89	89	89	89	90	90	90	90	90	89
115°	97	97	98	98	98	98	99	99	98	98	98
117.5°	107	107	107	107	107	108	108	108	108	108	107
120°	117	117	117	118	118	118	119	119	118	118	118
122.5°	129	128	129	129	129	129	130	130	130	130	129
125°	140	140	141	141	141	141	142	142	142	142	141
127.5°	153	153	153	153	153	154	154	154	154	154	154
130°	165	165	166	166	166	166	167	167	167	167	166
132.5°	179	178	179	178	178	179	179	180	179	180	179
135°	191	191	191	191	191	192	192	192	192	192	192
137.5°	204	203	204	203	203	204	204	204	204	204	204
140°	216	215	216	215	216	216	216	216	216	216	216
142.5°	228	227	228	227	227	228	228	228	228	228	228
145°	239	239	239	238	239	239	239	239	239	239	239
147.5°	250	249	250	249	249	250	250	250	250	250	250
150°	263	262	263	262	263	263	263	263	263	263	263
152.5°	273	273	273	273	273	273	273	273	273	273	273
155°	282	282	283	282	282	282	283	282	282	282	282
157.5°	290	290	290	290	290	290	291	291	290	291	290
160°	298	298	299	298	298	298	299	298	298	298	298
162.5°	306	305	306	305	306	306	306	306	306	306	306
165°	311	311	312	311	311	311	312	311	311	311	311
167.5°	316	315	316	316	316	316	316	316	316	316	316
170°	319	319	320	319	319	319	320	319	319	319	319
172.5°	323	323	323	323	323	323	323	323	323	323	323
175°	324	324	325	324	325	324	325	324	324	324	324
177.5°	325	325	326	325	325	325	325	325	325	325	325
180°	326	326	326	326	326	326	326	326	326	326	326

(END OF REPORT)