

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: P198406

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198406
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-MS/DIM-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5437.2 lumens
Efficiency: N/A
Efficacy: 87.1 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



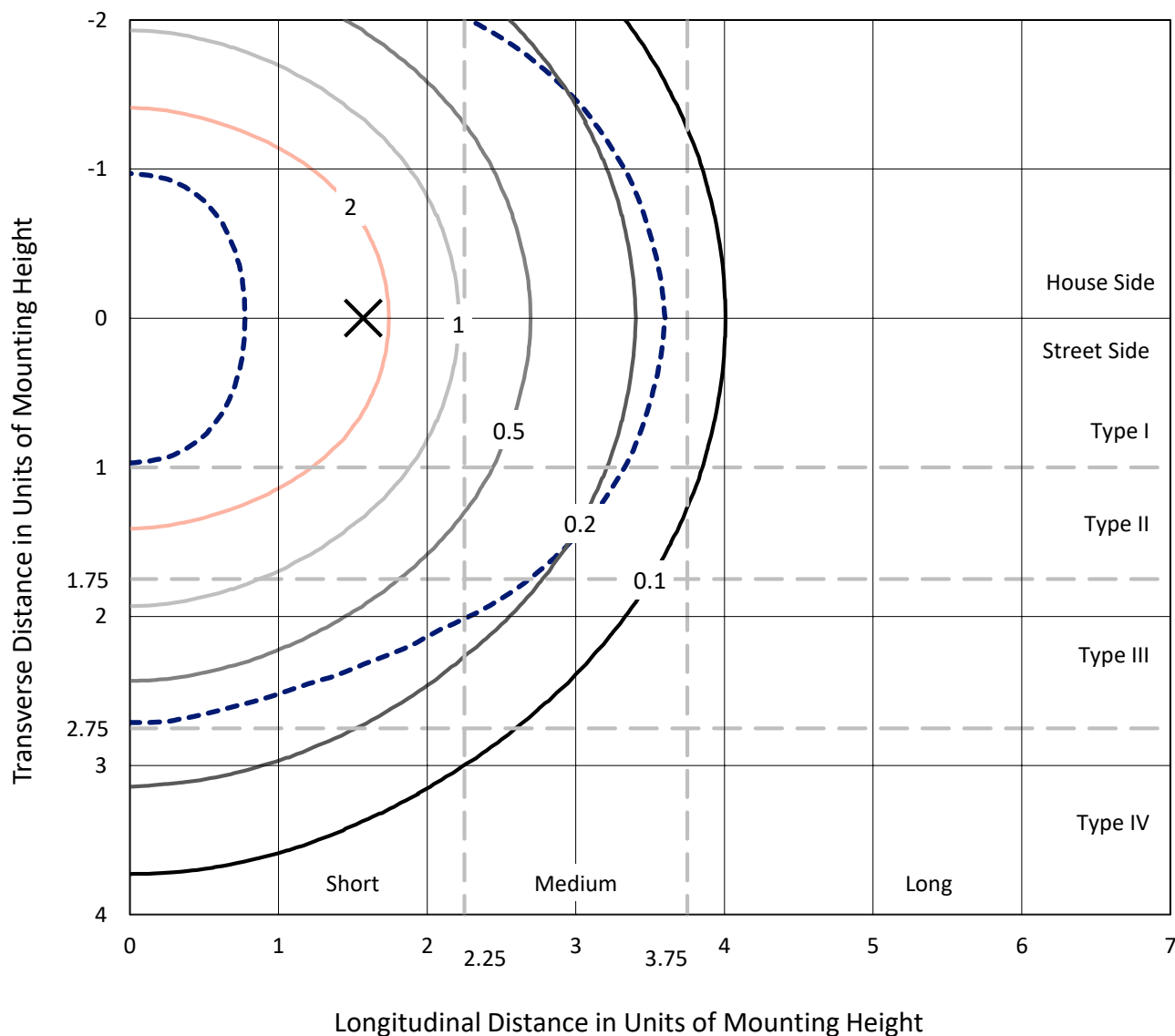
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

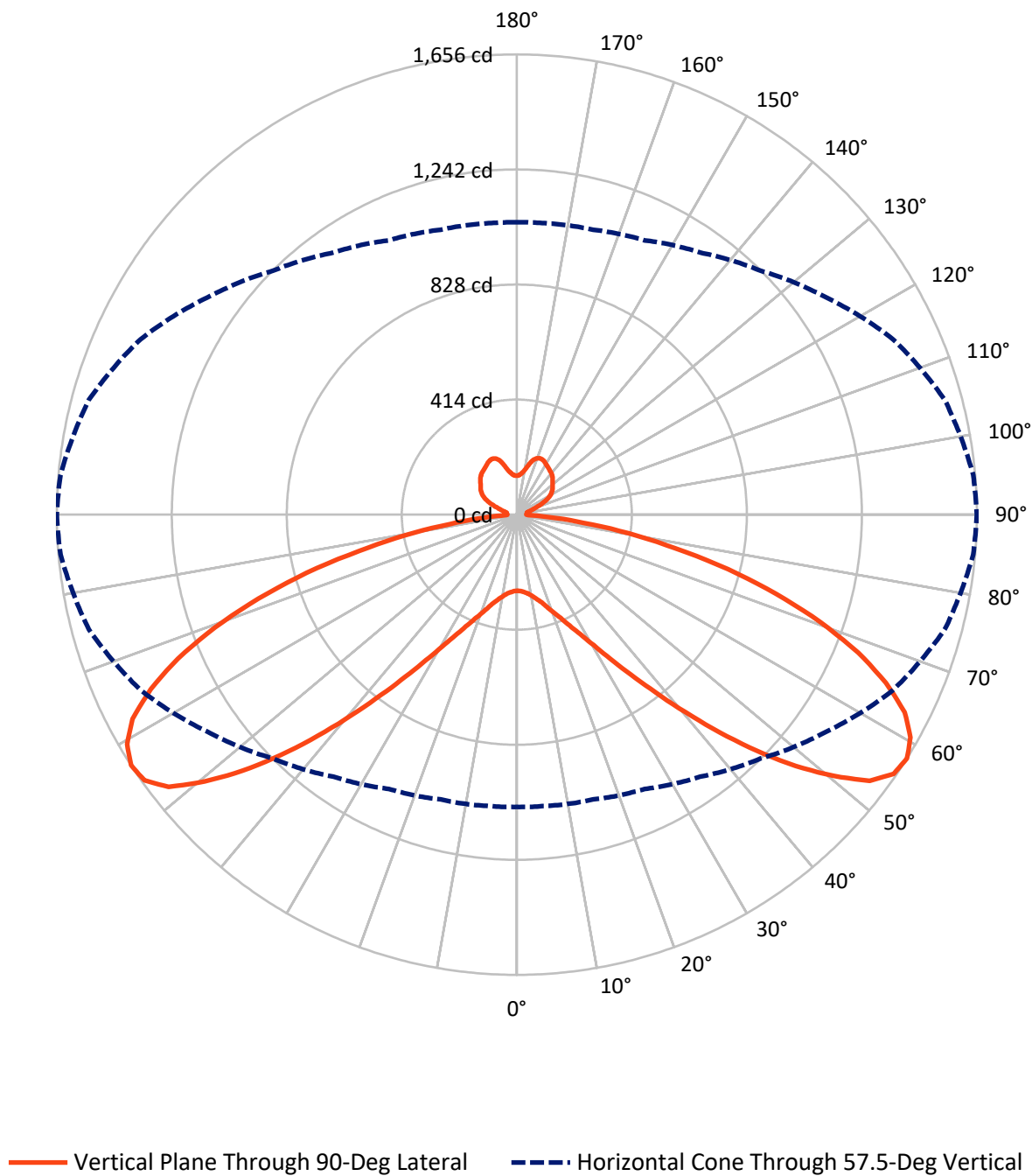


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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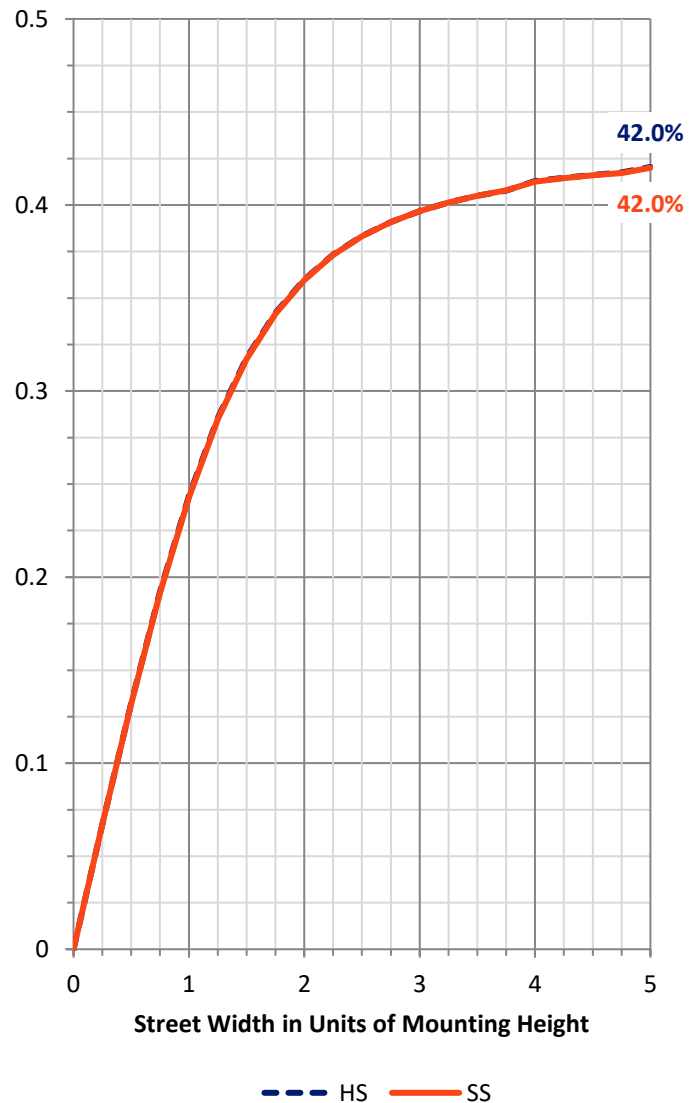
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2305.9	412.7	2718.6
	% Fixture	42.4	7.6	50.0
Street Side	Lumens	2305.9	412.7	2718.6
	% Fixture	42.4	7.6	50.0
Total	Lumens	4611.8	825.3	5437.2
	% Fixture	84.8	15.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	0.5
10°-20°	94.1	1.7
20°-30°	205.2	3.8
30°-40°	412.0	7.6
40°-50°	769.3	14.1
50°-60°	1133.1	20.8
60°-70°	1141.5	21.0
70°-80°	681.4	12.5
80°-90°	148.0	2.7
90°-100°	38.4	0.7
100°-110°	59.5	1.1
110°-120°	119.6	2.2
120°-130°	148.9	2.7
130°-140°	153.3	2.8
140°-150°	136.3	2.5
150°-160°	103.9	1.9
160°-170°	51.8	1.0
170°-180°	13.6	0.2
0°-90°	4611.8	84.8
0°-180°	5437.2	100.0

Coefficient of Utilization



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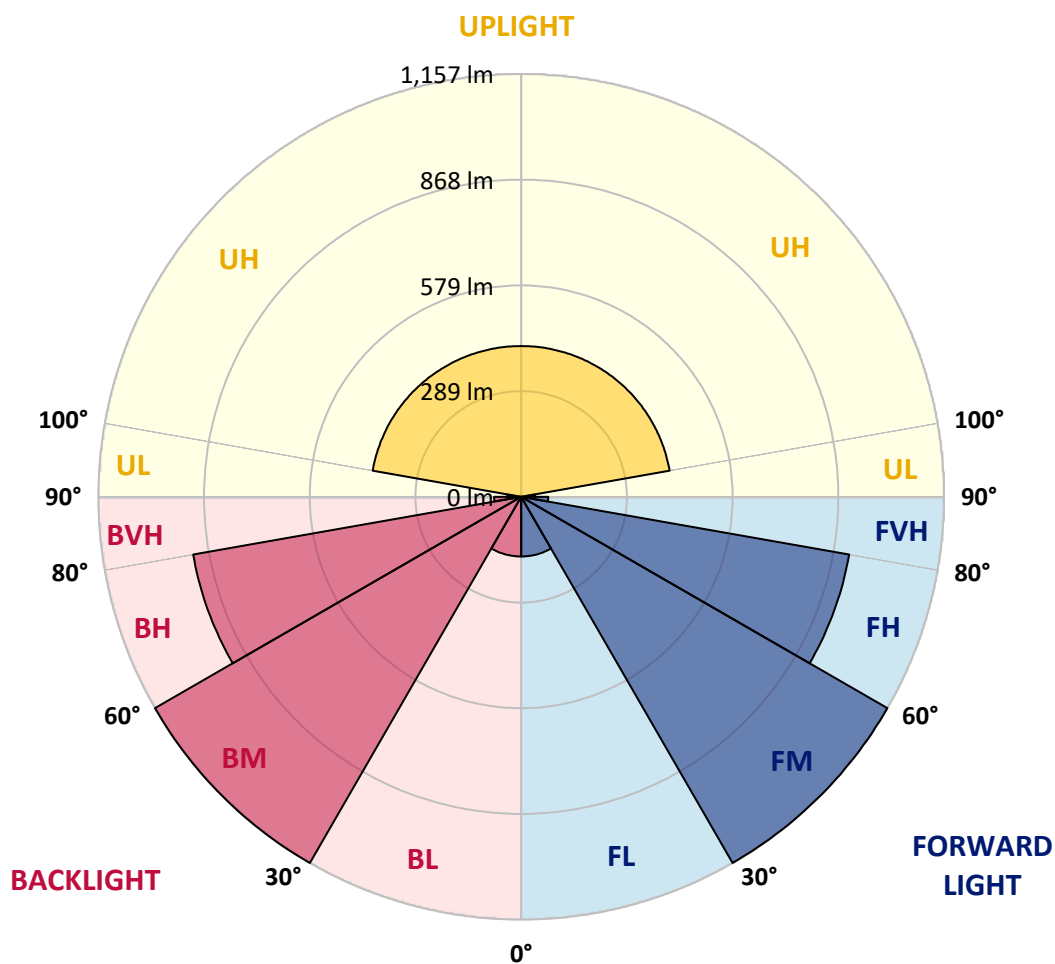
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.2	3.0			
FM	(30°-60°)	1157.2	21.3			
FH	(60°-80°)	911.5	16.8			G1/1800
FVH	(80°-90°)	74.0	1.4			G1/100
BL	(0°-30°)	163.2	3.0	B1/500		
BM	(30°-60°)	1157.2	21.3	B2/2500		
BH	(60°-80°)	911.5	16.8	B2/1000		G2/1000
BVH	(80°-90°)	74.0	1.4			G1/100
UL	(90°-100°)	38.4	0.7		U2/50	
UH	(100°-180°)	412.7	7.6		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°	274	274	274	274	274	274	274	274	274	274	274
2.5°	276	276	276	276	276	275	276	275	275	275	275
5°	279	279	279	280	280	280	280	279	280	279	280
7.5°	286	286	286	286	286	286	287	286	287	286	286
10°	295	295	295	295	296	296	296	297	297	297	297
12.5°	308	308	308	308	308	308	309	309	310	310	310
15°	325	325	324	324	324	325	325	327	326	326	326
17.5°	346	345	345	345	345	345	345	347	347	347	348
20°	369	371	370	368	368	368	369	371	371	374	375
22.5°	401	402	400	399	396	396	399	400	404	403	404
25°	435	434	433	431	431	431	433	436	439	442	442
27.5°	473	472	471	470	468	471	473	480	482	489	487
30°	515	516	514	513	512	513	521	531	539	544	545
32.5°	562	563	562	560	562	567	577	590	606	615	618
35°	614	616	614	616	618	627	645	665	693	701	706
37.5°	670	668	667	670	679	698	723	758	787	811	811
40°	726	727	728	728	745	771	812	859	902	933	934
42.5°	786	786	786	795	816	857	910	979	1038	1067	1071
45°	847	851	853	865	896	948	1018	1101	1176	1215	1213
47.5°	907	912	916	934	976	1032	1119	1219	1304	1348	1352
50°	969	966	974	996	1043	1115	1208	1323	1420	1474	1478
52.5°	1010	1009	1017	1040	1095	1176	1283	1414	1519	1575	1591
55°	1039	1038	1047	1074	1134	1220	1336	1474	1580	1638	1646
57.5°	1052	1053	1061	1089	1151	1241	1361	1494	1595	1649	1656
60°	1050	1051	1058	1085	1146	1233	1349	1474	1570	1620	1628
62.5°	1029	1028	1034	1057	1111	1192	1303	1421	1512	1558	1567
65°	985	984	984	1004	1050	1119	1224	1329	1414	1458	1460
67.5°	913	913	911	923	957	1024	1114	1210	1279	1320	1326
70°	816	818	811	818	846	899	979	1056	1110	1157	1160
72.5°	710	702	699	701	722	756	825	890	940	972	978
75°	573	573	571	568	580	614	660	713	755	777	785
77.5°	439	443	437	437	446	472	512	541	571	586	582
80°	312	311	308	306	316	331	363	380	389	403	409
82.5°	193	195	198	189	193	207	224	233	237	243	242
85°	95	96	97	98	98	103	113	117	120	123	121
87.5°	35	33	32	32	32	33	38	37	39	39	41
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)