

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: P198202

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34709)
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-DL-CG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4750 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 66.5
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



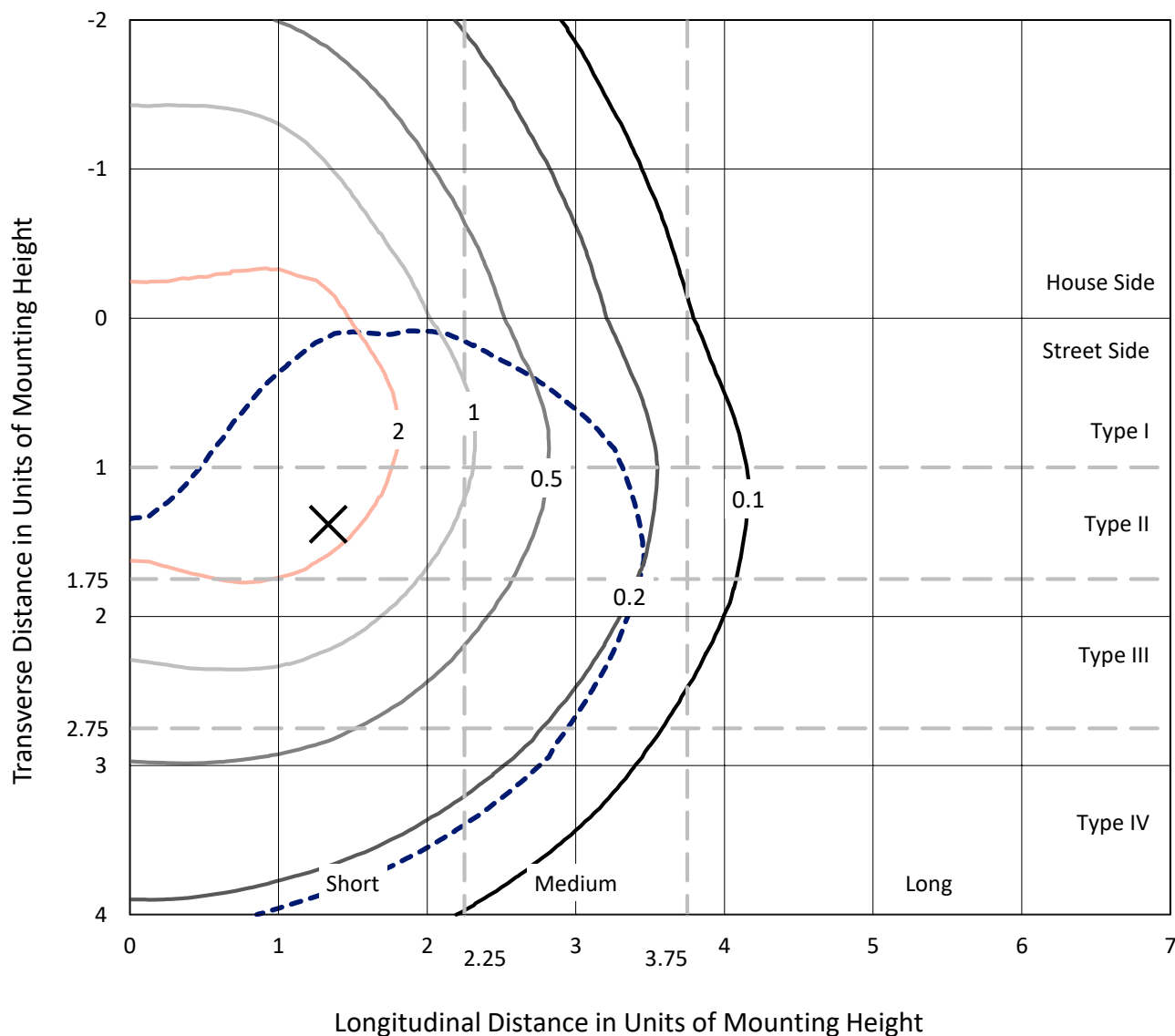
REPORT NUMBER: P198202

CATALOG NUMBER: TT-C3-LED-E1-DL-CG-LWR-LW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

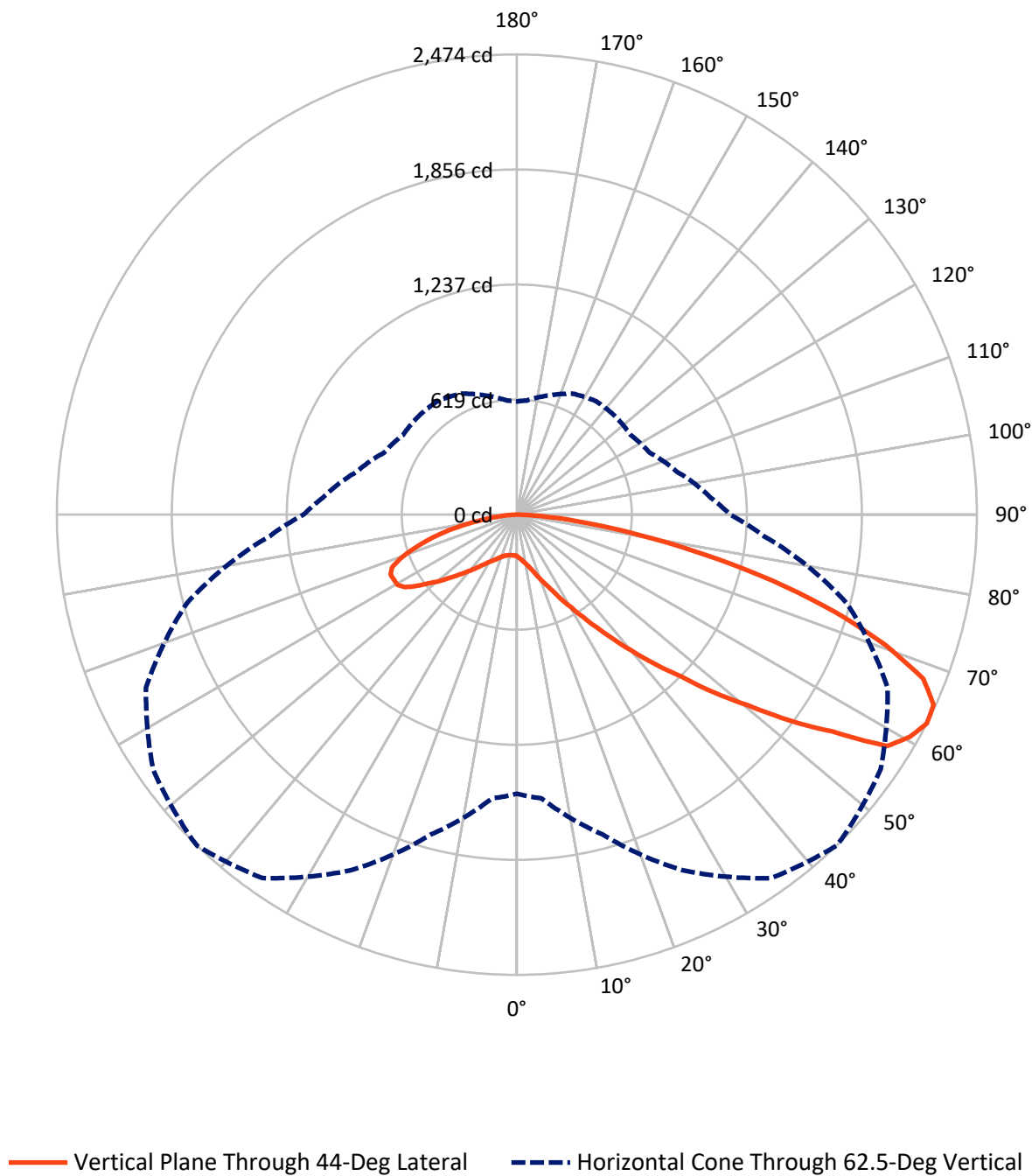


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198202

CATALOG NUMBER: TT-C3-LED-E1-DL-CG-LWR-LW

Luminous Intensity Polar Plot



REPORT NUMBER: P198202

CATALOG NUMBER: TT-C3-LED-E1-DL-CG-LWR-LW

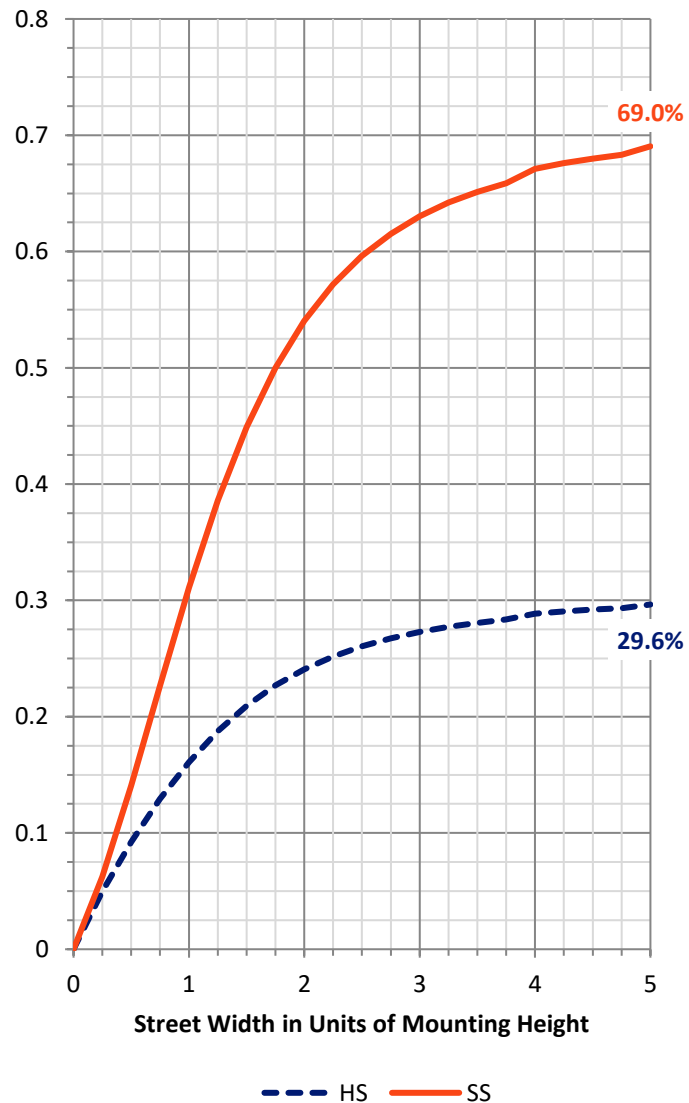
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1426.3	0.0	1426.3
	% Fixture	30.0	0.0	30.0
Street Side	Lumens	3323.7	0.0	3323.7
	% Fixture	70.0	0.0	70.0
Total	Lumens	4750.0	0.0	4750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.5
10°-20°	77.4	1.6
20°-30°	167.4	3.5
30°-40°	330.3	7.0
40°-50°	624.5	13.1
50°-60°	1073.3	22.6
60°-70°	1346.7	28.4
70°-80°	919.8	19.4
80°-90°	188.2	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4750.0	100.0
0°-180°	4750.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198202

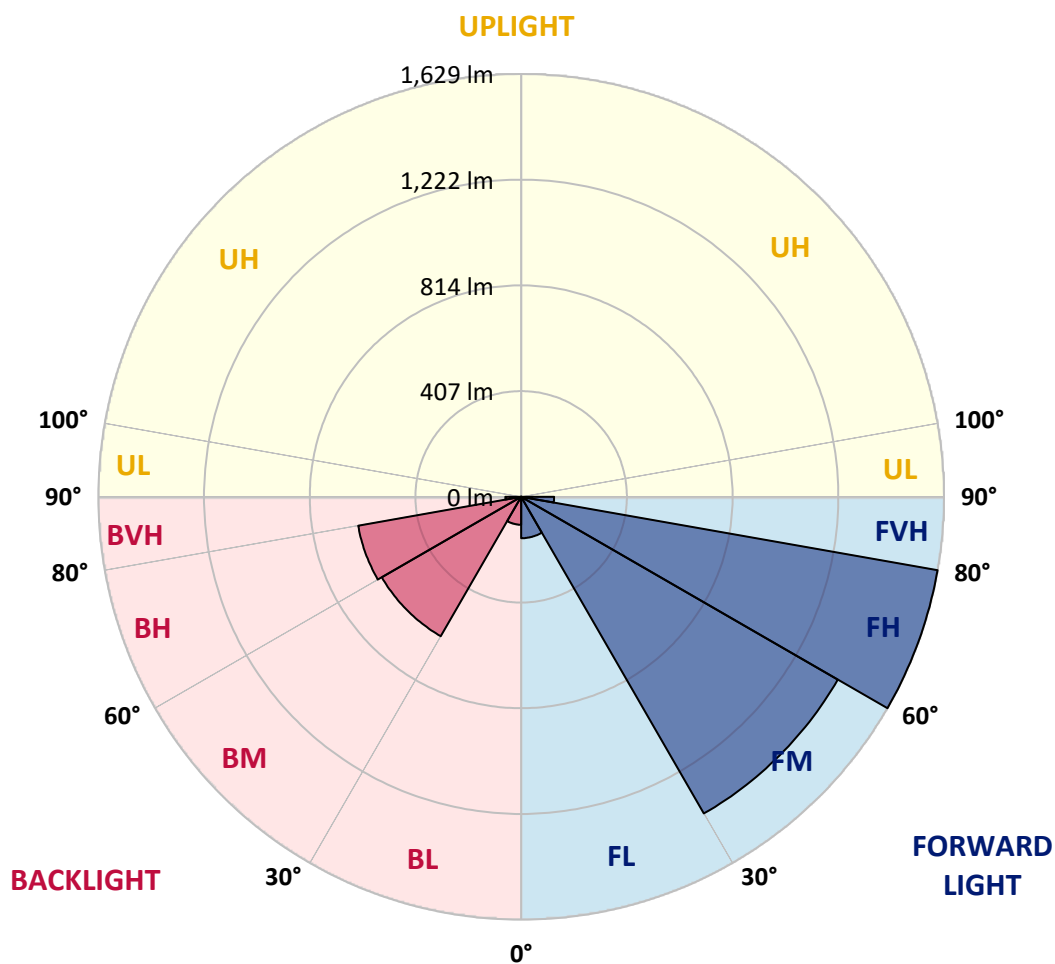
CATALOG NUMBER: TT-C3-LED-E1-DL-CG-LWR-LW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.4	3.4			
FM	(30°-60°)	1408.3	29.6			
FH	(60°-80°)	1628.9	34.3			G1/1800
FVH	(80°-90°)	127.1	2.7			G2/225
BL	(0°-30°)	107.7	2.3	B0/110		
BM	(30°-60°)	619.9	13.0	B1/1000		
BH	(60°-80°)	637.6	13.4	B2/1000		G2/1000
BVH	(80°-90°)	61.1	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P198202

CATALOG NUMBER: TT-C3-LED-E1-DL-CG-LWR-LW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	223	223	223	223	223	223	223	223	223	223	223
2.5°	234	234	234	234	232	232	232	231	230	228	227
5°	246	247	246	245	243	242	241	240	237	234	231
7.5°	261	260	260	259	256	254	254	250	246	242	237
10°	277	278	278	275	273	269	269	263	258	252	246
12.5°	297	296	298	296	293	286	286	281	272	264	256
15°	322	322	323	319	316	309	311	298	290	281	268
17.5°	354	354	351	349	344	340	336	325	313	298	283
20°	390	391	386	386	380	375	372	359	341	321	302
22.5°	434	432	428	424	421	412	415	398	374	347	322
25°	469	472	472	475	470	460	463	442	414	382	347
27.5°	512	518	523	529	527	520	518	499	463	425	378
30°	559	568	572	583	586	580	579	560	525	468	417
32.5°	620	619	631	650	662	659	658	637	590	530	460
35°	679	681	695	724	743	749	748	726	679	604	517
37.5°	743	746	773	808	839	854	854	844	781	680	580
40°	806	820	851	896	948	973	972	956	898	785	646
42.5°	882	896	930	994	1059	1107	1107	1102	1029	908	742
45°	957	969	1011	1092	1187	1243	1250	1268	1217	1047	853
47.5°	1037	1047	1101	1203	1322	1431	1438	1452	1370	1183	940
50°	1117	1121	1200	1337	1506	1610	1633	1661	1547	1347	1038
52.5°	1209	1211	1303	1478	1689	1841	1845	1865	1802	1548	1221
55°	1290	1293	1411	1636	1911	2057	2097	2155	2001	1683	1275
57.5°	1365	1377	1539	1827	2126	2347	2340	2337	2118	1737	1286
60°	1438	1460	1667	1982	2284	2427	2435	2378	2149	1759	1275
62.5°	1501	1531	1779	2109	2385	2474	2469	2388	2200	1836	1335
65°	1546	1587	1830	2163	2377	2463	2470	2427	2244	1840	1317
67.5°	1569	1627	1829	2127	2317	2358	2361	2282	2109	1742	1205
70°	1575	1613	1780	1995	2109	2105	2100	2041	1875	1554	1071
72.5°	1510	1544	1625	1757	1803	1793	1774	1708	1596	1336	913
75°	1367	1379	1382	1419	1421	1424	1402	1359	1280	1080	729
77.5°	1101	1119	1080	1038	1037	1033	1028	974	936	810	542
80°	802	794	762	714	682	672	666	651	628	555	377
82.5°	484	493	460	426	409	392	401	385	373	339	231
85°	217	217	210	201	187	188	190	184	176	159	111
87.5°	42	38	41	42	39	40	43	45	47	44	33
90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P198202

CATALOG NUMBER: TT-C3-LED-E1-DL-CG-LWR-LW

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	223	223	223	223	223	223	223	223	223	223	223
2.5°	227	226	225	223	221	220	219	218	218	217	217
5°	230	229	227	225	223	220	218	217	215	215	215
7.5°	235	233	229	226	223	220	218	216	215	213	213
10°	242	239	234	228	224	221	218	216	215	214	214
12.5°	252	247	239	233	227	223	220	218	217	216	216
15°	262	257	247	238	231	227	223	222	220	220	220
17.5°	276	268	256	246	238	232	229	226	226	227	227
20°	292	283	268	255	246	240	237	235	234	235	236
22.5°	311	298	279	267	257	250	247	245	244	246	245
25°	330	317	295	279	267	262	259	258	256	258	257
27.5°	362	344	314	293	282	276	272	270	270	270	269
30°	390	369	334	313	297	290	286	285	285	286	285
32.5°	429	403	362	334	319	308	304	303	303	302	303
35°	479	448	394	361	341	331	327	326	323	323	323
37.5°	533	492	432	396	371	358	352	348	346	344	344
40°	592	545	478	431	405	388	377	371	368	365	363
42.5°	669	617	531	474	441	422	406	400	392	389	383
45°	770	704	597	533	485	458	442	429	419	414	409
47.5°	849	771	661	584	537	502	480	459	447	438	436
50°	929	847	729	637	585	554	525	499	477	467	469
52.5°	1084	985	820	709	636	601	571	539	514	498	499
55°	1128	1027	879	779	709	663	623	588	552	529	530
57.5°	1125	1025	884	798	752	719	682	634	592	562	558
60°	1110	1009	875	788	754	746	727	683	626	592	585
62.5°	1147	1047	891	788	747	748	744	717	663	616	608
65°	1131	1023	881	795	760	752	750	724	687	634	627
67.5°	1036	942	813	737	722	729	739	722	685	645	636
70°	909	829	720	654	647	661	684	686	665	634	635
72.5°	767	703	611	566	558	571	600	614	615	604	603
75°	616	558	492	454	456	476	498	522	530	537	543
77.5°	459	428	372	347	352	374	388	403	420	428	434
80°	321	294	257	242	248	261	273	286	308	309	321
82.5°	201	183	164	159	160	165	179	187	197	200	198
85°	98	94	88	85	86	91	100	106	112	111	105
87.5°	31	32	33	34	34	37	40	40	42	41	41
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)