

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: P198190

Luminaire Tested: **TT-C3-LED-E1-DL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34703)
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5505.7 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

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

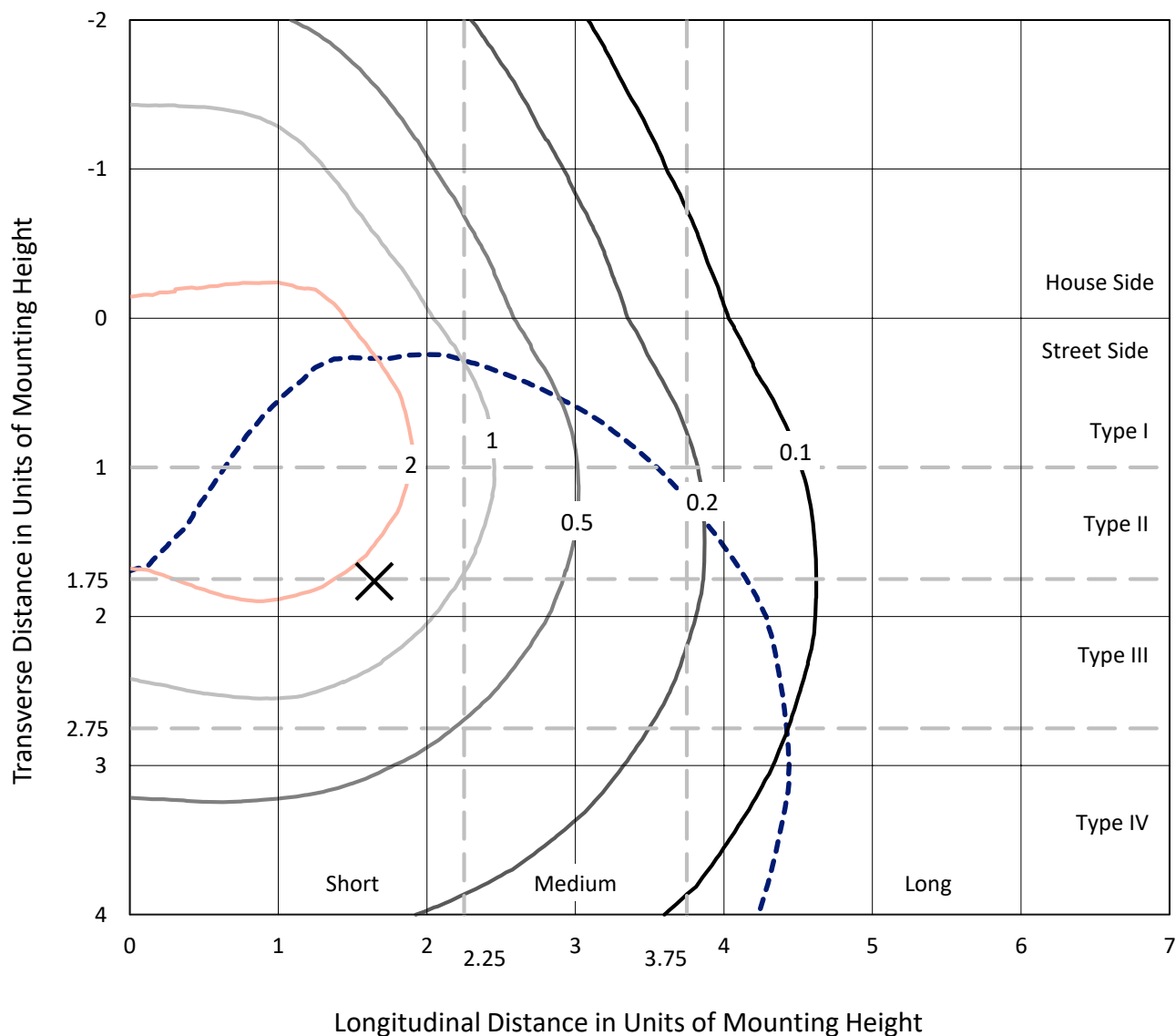


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

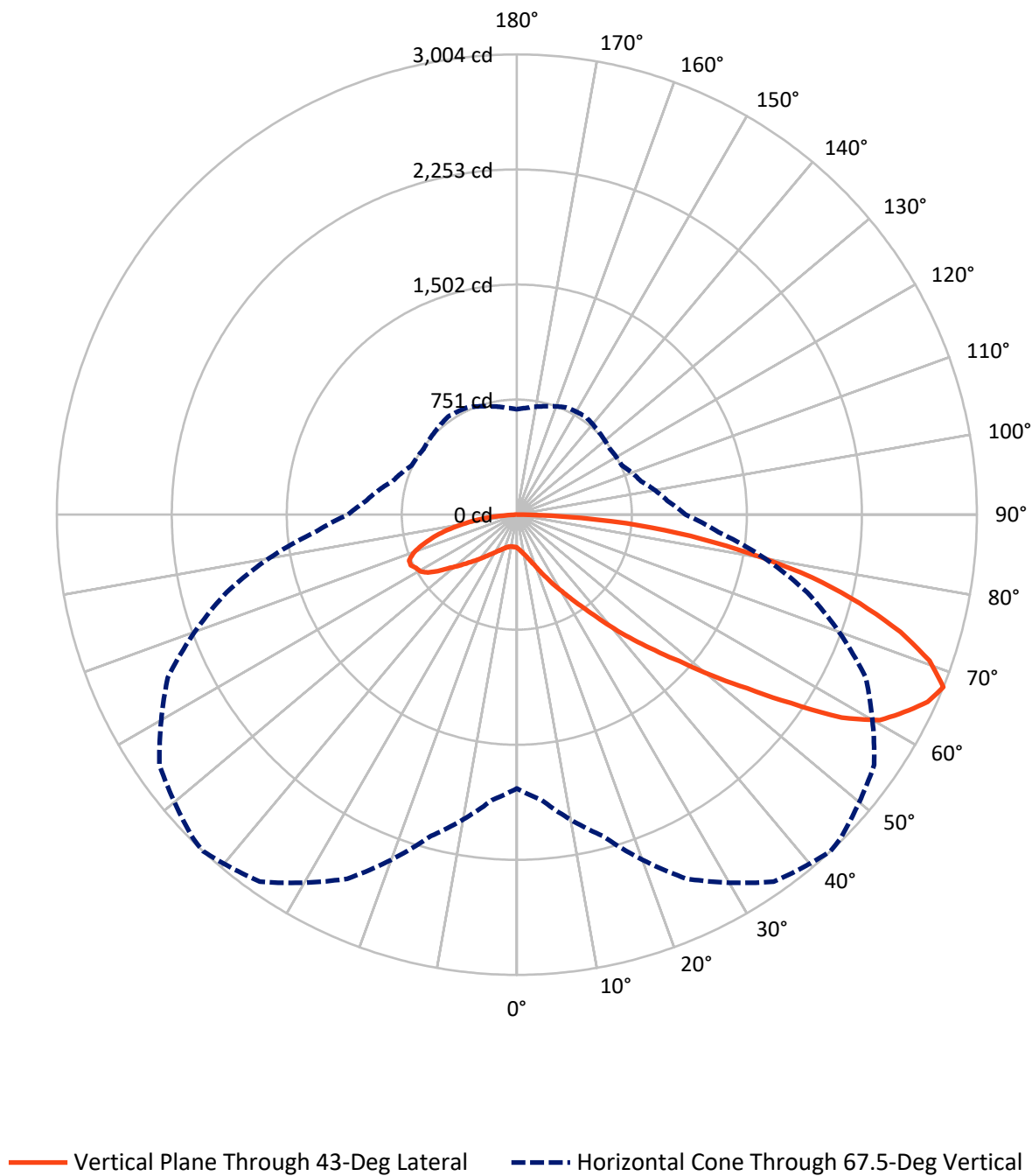


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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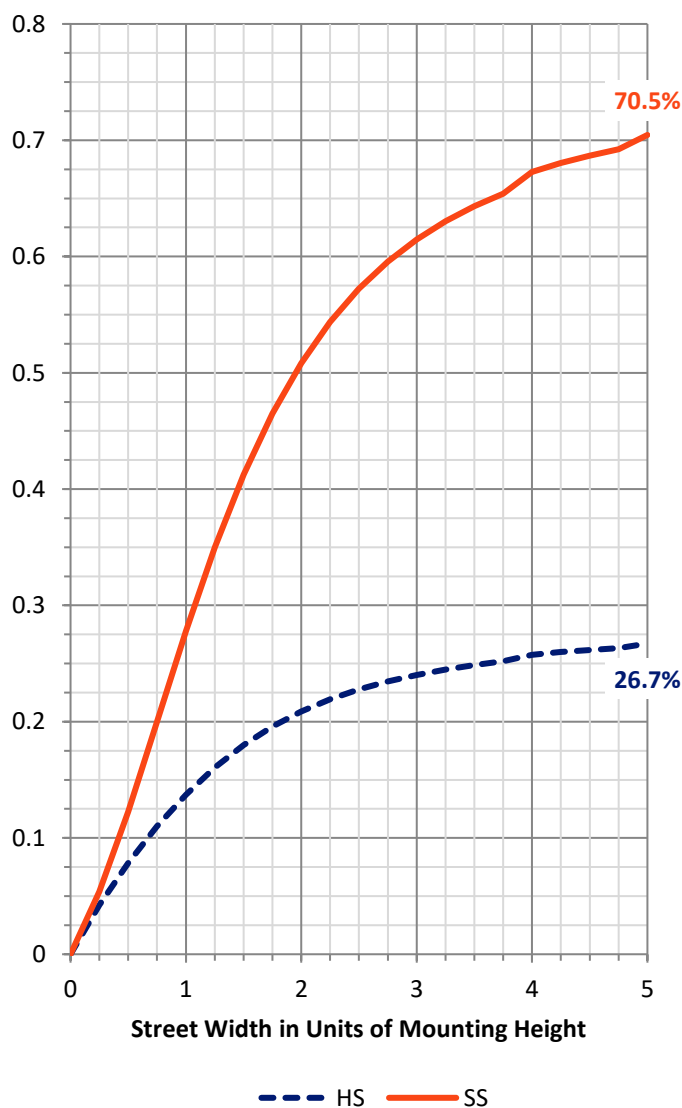
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.6	0.0	1502.6
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	4003.1	0.0	4003.1
	% Fixture	72.7	0.0	72.7
Total	Lumens	5505.7	0.0	5505.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.4
10°-20°	75.2	1.4
20°-30°	164.2	3.0
30°-40°	325.2	5.9
40°-50°	615.7	11.2
50°-60°	1093.2	19.9
60°-70°	1513.9	27.5
70°-80°	1298.6	23.6
80°-90°	397.9	7.2
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°	5505.7	100.0
0°-180°	5505.7	100.0

Coefficient of Utilization



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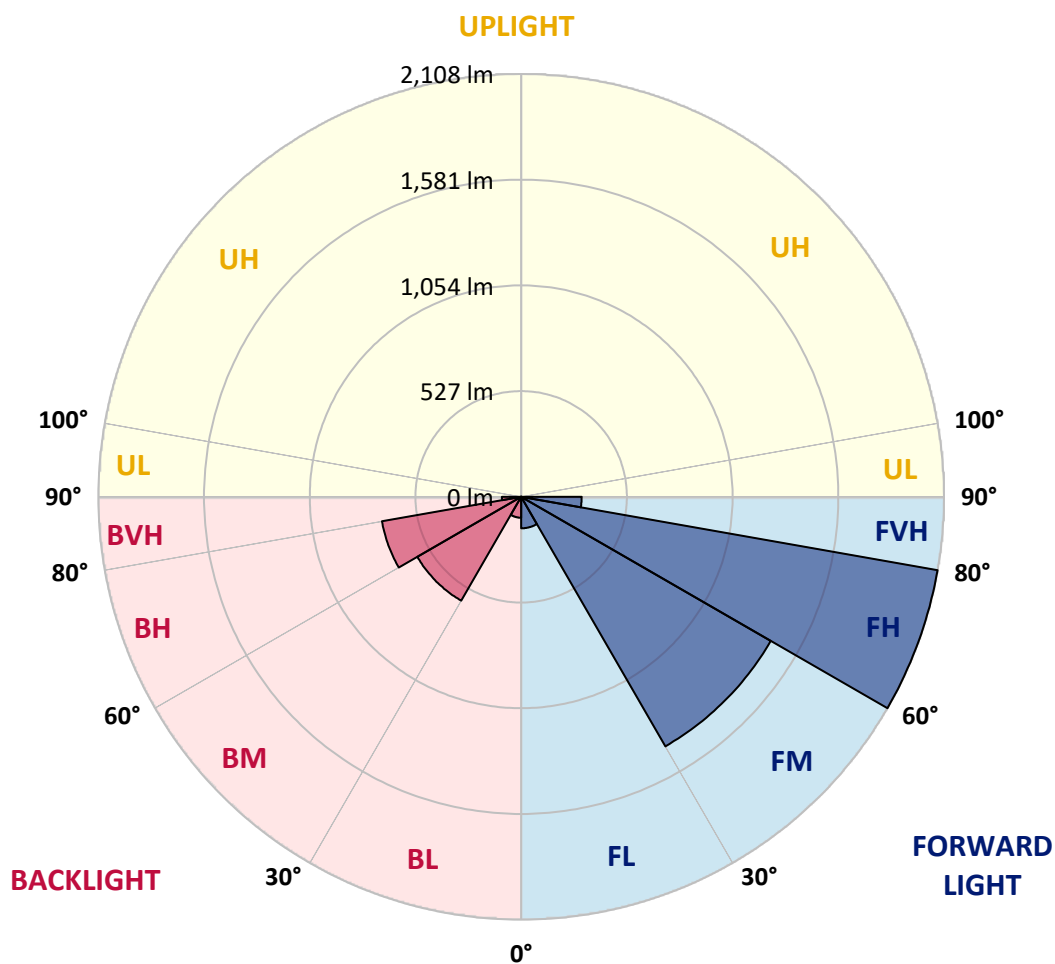
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	156.9	2.8			
FM	(30°-60°)	1436.6	26.1			
FH	(60°-80°)	2107.8	38.3			G2/5000
FVH	(80°-90°)	301.9	5.5			G3/500
BL	(0°-30°)	104.2	1.9	B0/110		
BM	(30°-60°)	597.6	10.9	B1/1000		
BH	(60°-80°)	704.7	12.8	B2/1000		G2/1000
BVH	(80°-90°)	96.1	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	215	215	215	215	215	215	215	215	215	215	215
2.5°	227	226	226	226	225	224	224	223	222	221	219
5°	239	237	237	237	236	235	234	232	229	226	224
7.5°	253	254	254	251	249	247	246	242	238	233	229
10°	270	271	271	269	265	263	261	257	250	243	237
12.5°	289	291	292	289	284	280	281	274	265	256	247
15°	317	316	319	313	308	303	302	292	283	271	260
17.5°	351	347	347	344	341	333	329	319	304	290	273
20°	386	385	383	381	375	366	367	351	333	313	292
22.5°	427	431	425	425	420	413	410	389	365	337	313
25°	471	472	472	474	473	461	455	436	408	371	336
27.5°	516	520	519	524	527	519	514	492	452	411	367
30°	566	569	574	586	589	581	577	551	511	453	398
32.5°	623	627	632	655	666	657	651	628	578	514	444
35°	686	686	703	731	748	742	744	720	666	586	500
37.5°	756	756	778	813	846	848	859	831	765	662	555
40°	818	831	864	909	961	978	983	955	874	752	616
42.5°	890	905	946	1013	1079	1116	1118	1091	1007	866	704
45°	963	982	1032	1117	1218	1262	1263	1264	1187	1002	807
47.5°	1046	1061	1127	1228	1357	1429	1453	1456	1351	1143	897
50°	1136	1141	1232	1375	1549	1649	1663	1673	1525	1303	992
52.5°	1229	1236	1342	1540	1759	1883	1907	1911	1792	1535	1176
55°	1325	1331	1468	1737	2009	2172	2215	2242	2055	1684	1250
57.5°	1423	1438	1621	1942	2285	2501	2531	2490	2204	1760	1271
60°	1521	1548	1787	2171	2557	2724	2732	2618	2276	1802	1279
62.5°	1613	1658	1961	2383	2738	2839	2839	2688	2379	1938	1371
65°	1706	1760	2092	2534	2837	2948	2961	2876	2557	2021	1398
67.5°	1787	1870	2172	2622	2925	3004	2989	2849	2514	1963	1323
70°	1877	1934	2229	2620	2846	2859	2851	2700	2378	1855	1227
72.5°	1913	1959	2190	2484	2621	2619	2605	2472	2167	1687	1095
75°	1876	1873	2010	2207	2313	2314	2303	2190	1895	1449	927
77.5°	1675	1669	1729	1849	1963	1973	1954	1828	1578	1200	775
80°	1352	1327	1372	1470	1558	1549	1565	1427	1226	926	586
82.5°	915	923	979	1038	1133	1141	1124	1048	887	672	412
85°	473	484	555	647	680	718	714	661	536	390	245
87.5°	83	72	101	153	186	222	221	158	124	84	52
90°	0	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	215	215	215	215	215	215	215	215	215	215	215
2.5°	219	218	217	215	213	212	211	210	210	209	209
5°	223	221	219	216	214	212	210	209	208	207	207
7.5°	227	225	221	217	213	211	210	208	207	206	206
10°	234	231	225	219	215	212	209	208	207	207	206
12.5°	242	237	230	223	217	213	211	210	209	209	208
15°	254	249	238	228	223	218	215	214	213	214	213
17.5°	266	260	246	236	228	224	221	220	219	221	221
20°	282	273	258	245	236	231	230	228	229	230	230
22.5°	299	288	270	255	247	241	240	240	240	241	242
25°	320	306	283	268	258	253	252	252	253	254	254
27.5°	346	328	300	281	270	265	264	265	267	268	268
30°	376	355	319	299	286	280	280	281	283	285	282
32.5°	412	385	345	318	304	298	298	300	299	300	303
35°	458	426	376	344	326	319	319	320	320	322	323
37.5°	507	468	409	374	354	344	341	342	344	343	345
40°	561	514	448	404	383	372	366	366	365	364	363
42.5°	633	578	496	442	416	404	394	391	389	390	383
45°	724	660	557	498	455	436	426	420	415	411	407
47.5°	801	720	613	546	501	478	462	452	442	438	438
50°	884	802	678	591	551	523	506	488	474	465	470
52.5°	1045	941	776	677	603	572	552	528	509	497	498
55°	1092	983	829	734	670	640	609	577	548	531	532
57.5°	1099	988	839	756	719	699	672	630	593	566	563
60°	1094	985	838	754	727	731	723	687	637	604	600
62.5°	1167	1040	881	771	736	742	752	731	682	637	630
65°	1173	1050	887	793	766	766	772	756	716	670	659
67.5°	1102	992	840	758	744	760	781	771	732	699	688
70°	1023	915	779	701	694	716	750	759	741	714	710
72.5°	899	817	690	629	627	649	684	709	714	715	713
75°	775	691	588	542	546	570	601	628	655	677	686
77.5°	635	573	491	447	455	482	507	534	562	600	605
80°	487	445	371	352	351	373	403	419	459	490	487
82.5°	344	311	269	252	256	271	290	301	330	347	352
85°	203	189	165	149	153	168	171	185	192	203	200
87.5°	43	37	33	34	30	31	35	34	34	40	38
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)