

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: STREETWORKS

Report Number: P157100

Luminaire Tested: **UTLD-E02-LED-E-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157100
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33670)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-SL4
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5032.3 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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: 28.75 FT

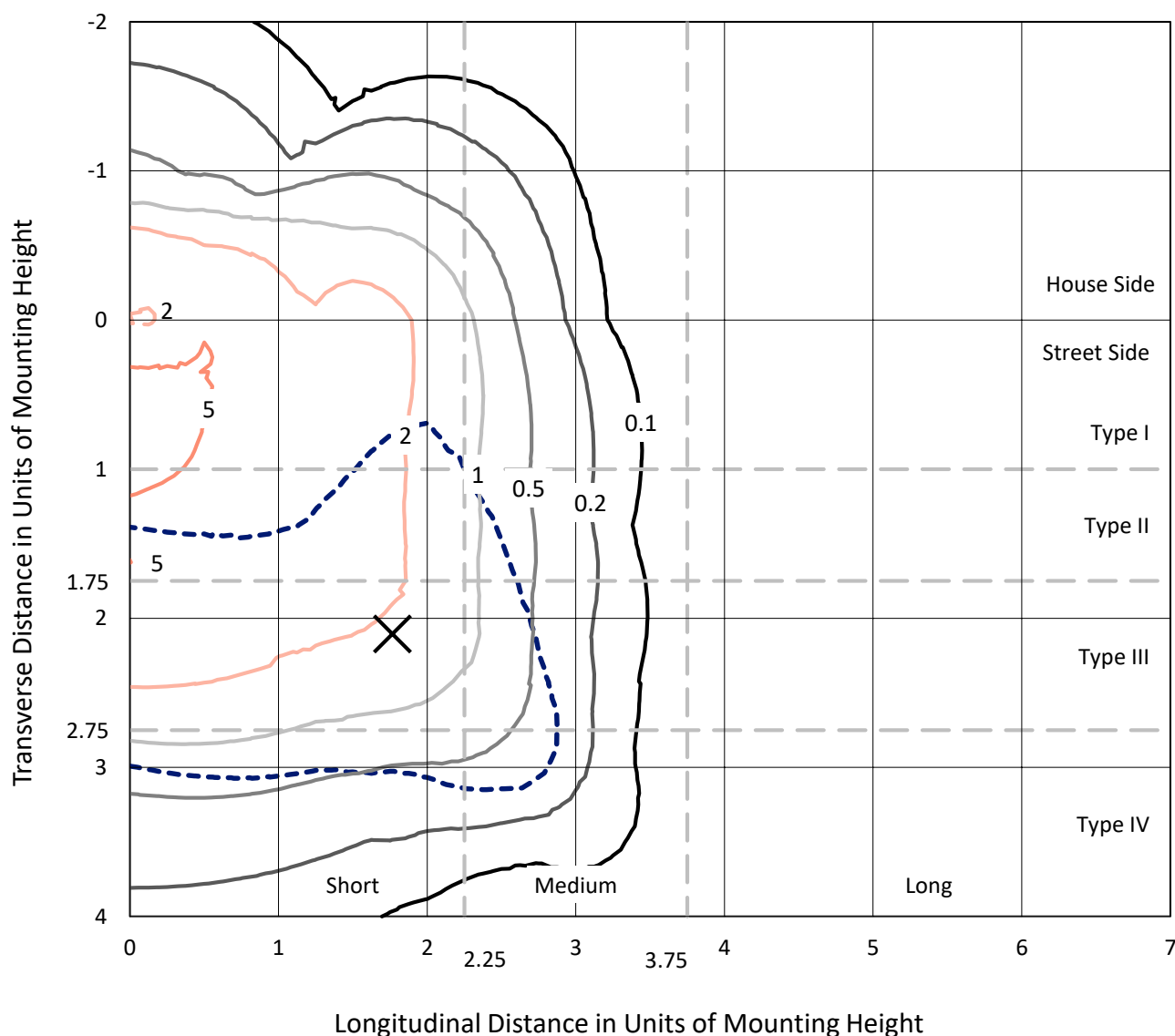


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

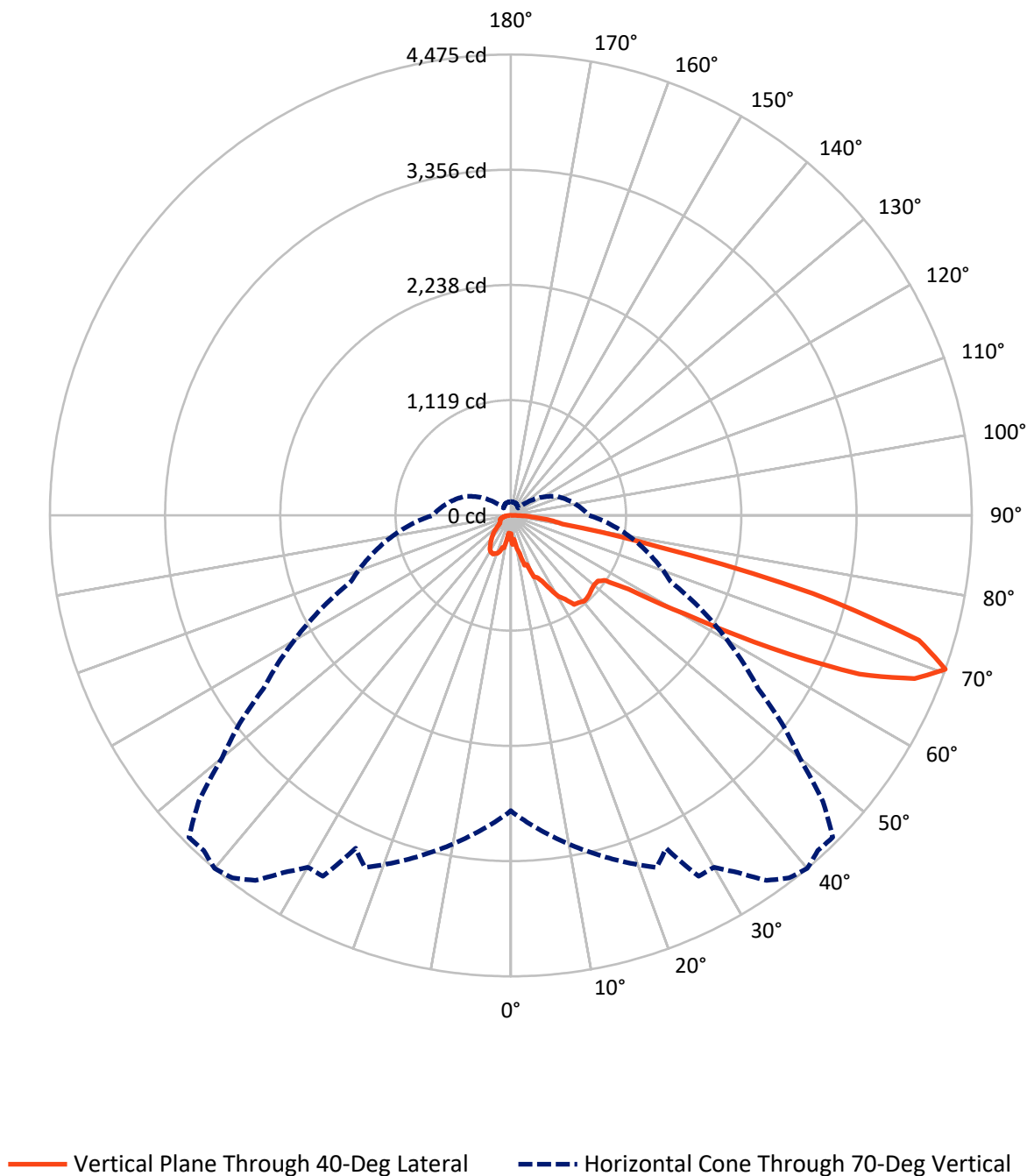


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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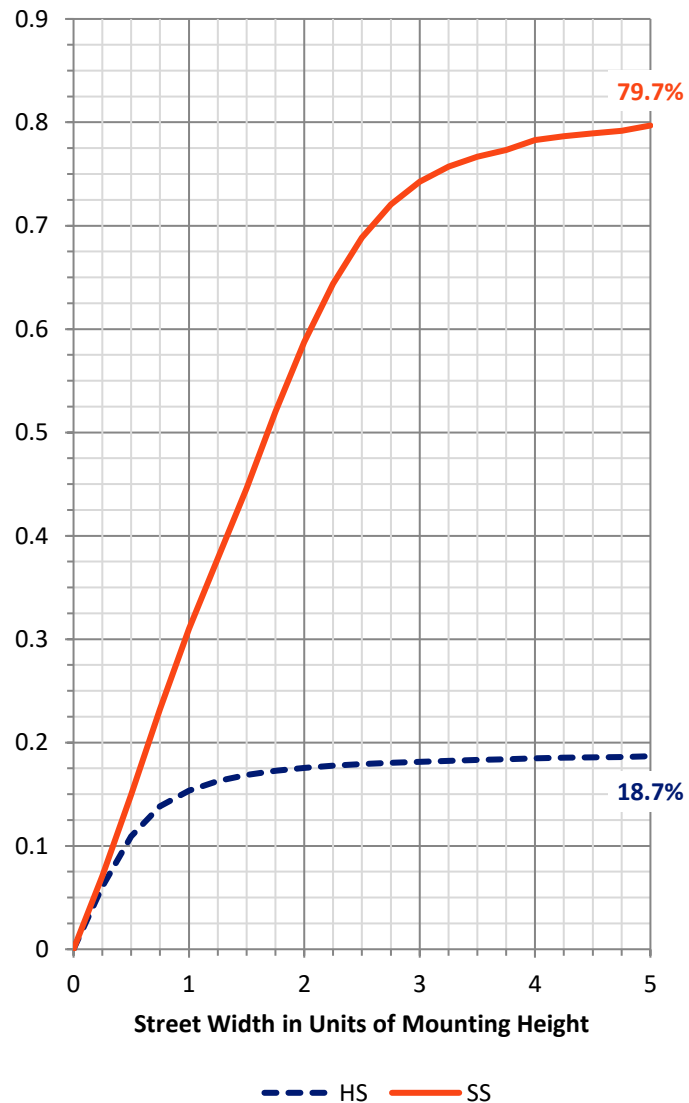
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	953.6	0.0	953.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4078.7	0.0	4078.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	5032.3	0.0	5032.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	0.4
10°-20°	112.1	2.2
20°-30°	275.4	5.5
30°-40°	460.9	9.2
40°-50°	583.2	11.6
50°-60°	905.1	18.0
60°-70°	1701.1	33.8
70°-80°	839.0	16.7
80°-90°	133.0	2.6
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°	5032.3	100.0
0°-180°	5032.3	100.0

Coefficient of Utilization



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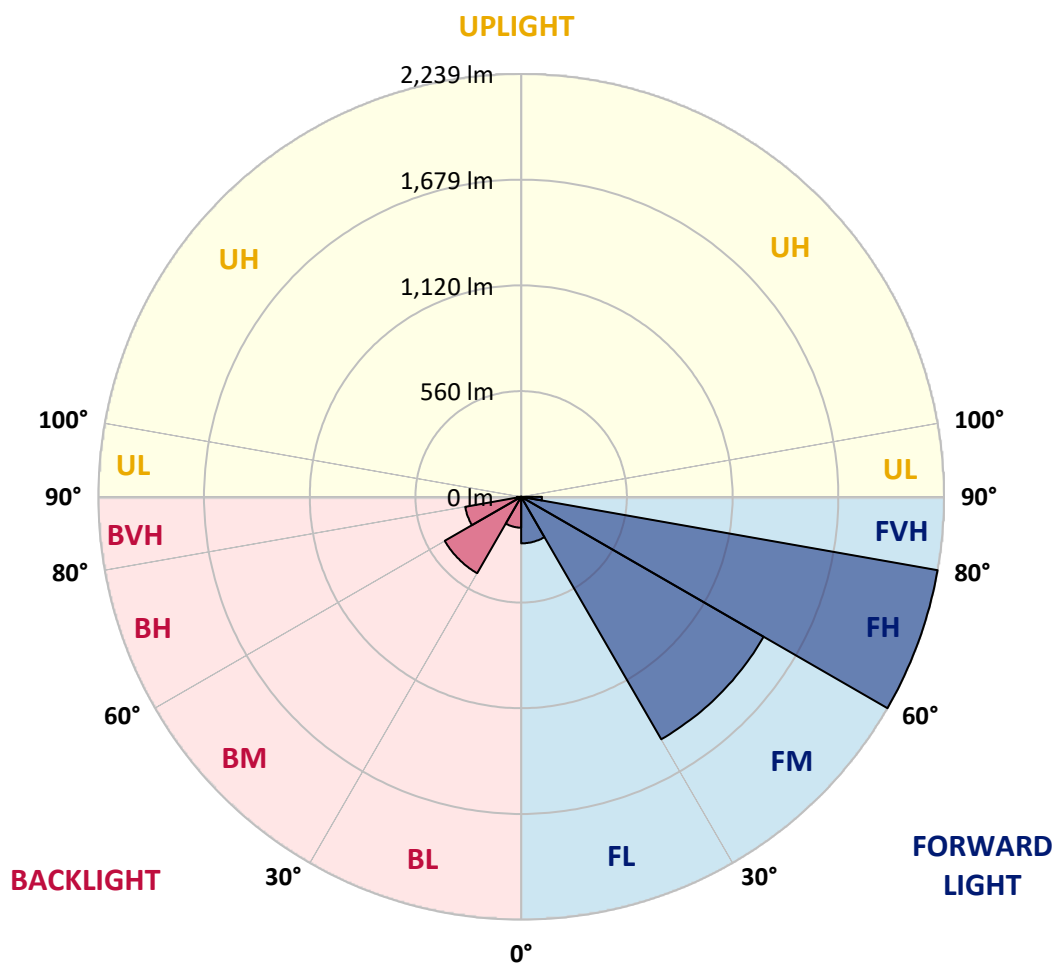
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	246.6	4.9			
FM	(30°-60°)	1482.5	29.5			
FH	(60°-80°)	2239.1	44.5			G2/5000
FVH	(80°-90°)	110.5	2.2			G2/225
BL	(0°-30°)	163.5	3.2	B1/500		
BM	(30°-60°)	466.7	9.3	B1/1000		
BH	(60°-80°)	300.9	6.0	B1/500		G1/500
BVH	(80°-90°)	22.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	0.3°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°
0°	175	175	175	175	175	175	175	175	175	175	175
2.5°	281	275	281	280	285	284	284	281	280	283	282
5°	236	237	232	227	230	230	230	228	227	231	234
7.5°	350	351	348	343	350	343	340	322	290	237	234
10°	354	353	346	342	343	343	341	338	325	326	332
12.5°	459	459	443	430	436	424	357	344	338	380	419
15°	490	465	450	430	437	442	510	515	526	502	498
17.5°	574	575	553	548	607	581	522	515	524	501	497
20°	678	676	608	700	625	621	606	600	624	636	570
22.5°	705	706	742	781	720	695	668	668	663	655	621
25°	866	868	769	819	752	782	769	742	721	708	693
27.5°	948	935	900	962	923	891	832	780	803	804	781
30°	1083	1082	1055	1053	977	938	950	917	896	913	845
32.5°	1292	1298	1122	1108	1082	1077	1034	1012	966	969	911
35°	1528	1530	1276	1187	1202	1151	1081	1063	1025	1061	979
37.5°	1622	1620	1407	1274	1251	1181	1148	1132	1085	1074	1004
40°	1776	1777	1491	1313	1325	1236	1208	1156	1091	1096	1015
42.5°	1827	1827	1516	1322	1349	1271	1214	1158	1101	1091	1026
45°	1848	1849	1504	1329	1319	1264	1199	1149	1090	1077	1017
47.5°	1845	1844	1483	1327	1307	1241	1199	1144	1078	1061	1006
50°	1823	1825	1477	1316	1322	1232	1200	1138	1078	1053	1005
52.5°	1846	1851	1504	1321	1351	1264	1211	1150	1094	1059	1016
55°	2355	2391	1664	1407	1467	1365	1277	1215	1152	1113	1076
57.5°	3348	3351	2320	1778	1897	1725	1566	1513	1400	1349	1335
60°	3724	3737	3113	2554	2800	2533	2343	2241	2088	1939	1907
62.5°	3948	3957	3538	3072	3411	3236	3127	3114	2962	2836	2770
65°	4099	4100	3840	3408	3778	3622	3646	3773	3737	3717	3633
67.5°	3929	3936	3994	3673	4036	3938	4060	4204	4218	4229	4142
70°	2865	2881	3701	3565	3949	3944	4111	4326	4437	4475	4413
72.5°	1816	1802	2449	2619	2887	3131	3446	3787	4073	4143	4090
75°	1270	1266	1321	1349	1570	1631	1952	2459	2827	3030	3039
77.5°	806	806	797	753	779	754	770	882	1089	1484	1566
80°	666	667	592	545	574	568	540	528	514	507	545
82.5°	449	442	502	462	477	471	460	447	427	390	357
85°	330	325	307	276	293	290	284	270	260	229	210
87.5°	248	246	224	180	190	178	161	144	132	113	99
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	45°	47.5°	50°	52.5°	55°	67.5°	90°	112.5°	135°	157.5°	180°
0°	175	175	175	175	175	175	175	175	175	175	175
2.5°	282	282	282	276	269	199	173	171	176	246	273
5°	231	227	226	226	228	269	169	173	244	171	170
7.5°	231	227	225	222	222	210	165	237	165	192	273
10°	332	322	320	324	316	303	241	252	230	272	273
12.5°	418	418	416	426	421	297	264	244	333	287	365
15°	450	417	424	422	413	431	326	308	316	334	352
17.5°	512	548	569	543	475	451	393	315	361	381	428
20°	551	546	561	538	509	518	471	458	393	378	393
22.5°	603	609	639	603	590	595	535	470	383	453	429
25°	669	691	707	689	640	703	598	556	415	402	436
27.5°	768	769	762	740	728	735	670	529	415	384	377
30°	824	833	864	812	795	799	679	572	419	336	355
32.5°	935	906	888	826	862	802	755	598	402	313	315
35°	958	950	960	872	876	872	732	609	372	274	249
37.5°	1007	983	968	918	932	852	734	603	351	226	202
40°	1015	1018	1008	926	940	828	718	592	328	183	186
42.5°	1037	1015	997	926	942	818	731	583	296	158	174
45°	1028	1007	987	924	933	820	745	575	263	148	174
47.5°	1017	999	974	928	932	837	772	571	223	147	175
50°	1020	1000	976	941	940	851	800	592	180	148	173
52.5°	1032	1010	983	956	953	913	949	611	146	148	170
55°	1105	1080	1066	1074	1071	1187	1381	632	126	147	166
57.5°	1407	1390	1400	1460	1474	1665	1778	660	118	145	162
60°	2017	2031	1995	2050	2021	2011	1953	714	113	142	158
62.5°	2815	2768	2640	2629	2522	2206	1976	728	110	139	153
65°	3634	3447	3185	3085	2895	2305	1865	677	108	137	146
67.5°	4177	3933	3574	3363	3078	2205	1436	586	105	133	138
70°	4420	4109	3659	3319	2932	1680	760	481	100	127	134
72.5°	4077	3777	3233	2812	2281	1042	387	344	93	117	133
75°	2908	2575	2015	1639	1231	473	219	163	83	106	131
77.5°	1455	1167	816	646	507	245	97	81	72	94	110
80°	516	477	435	414	357	131	68	65	63	78	80
82.5°	341	318	292	274	220	91	53	56	52	64	55
85°	196	186	166	146	119	69	45	48	36	49	35
87.5°	92	87	82	76	68	50	25	45	23	31	18
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)