

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: P799048

Luminaire Tested: **ARCH1-50-750-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

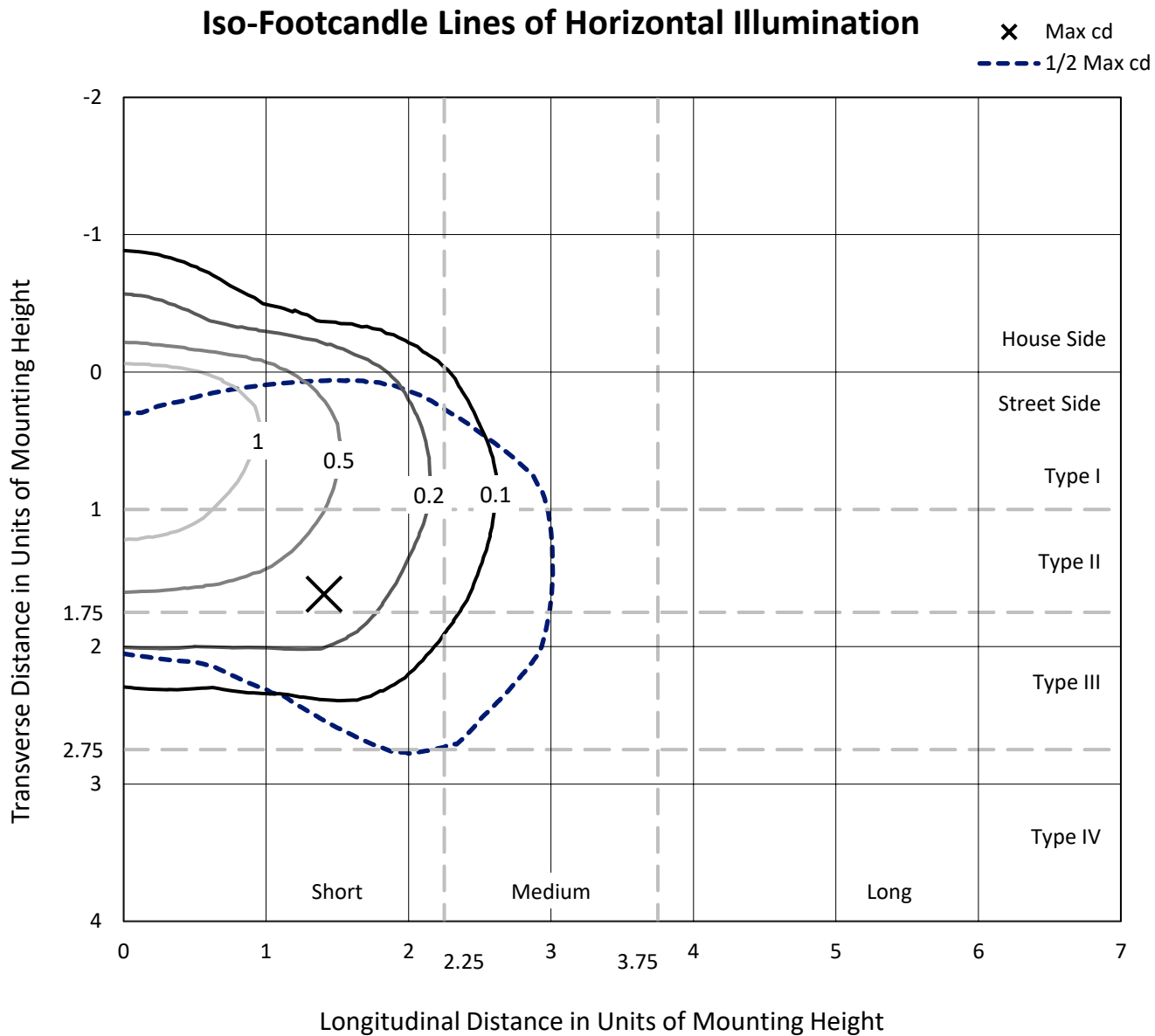
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4741.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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: 24 FT

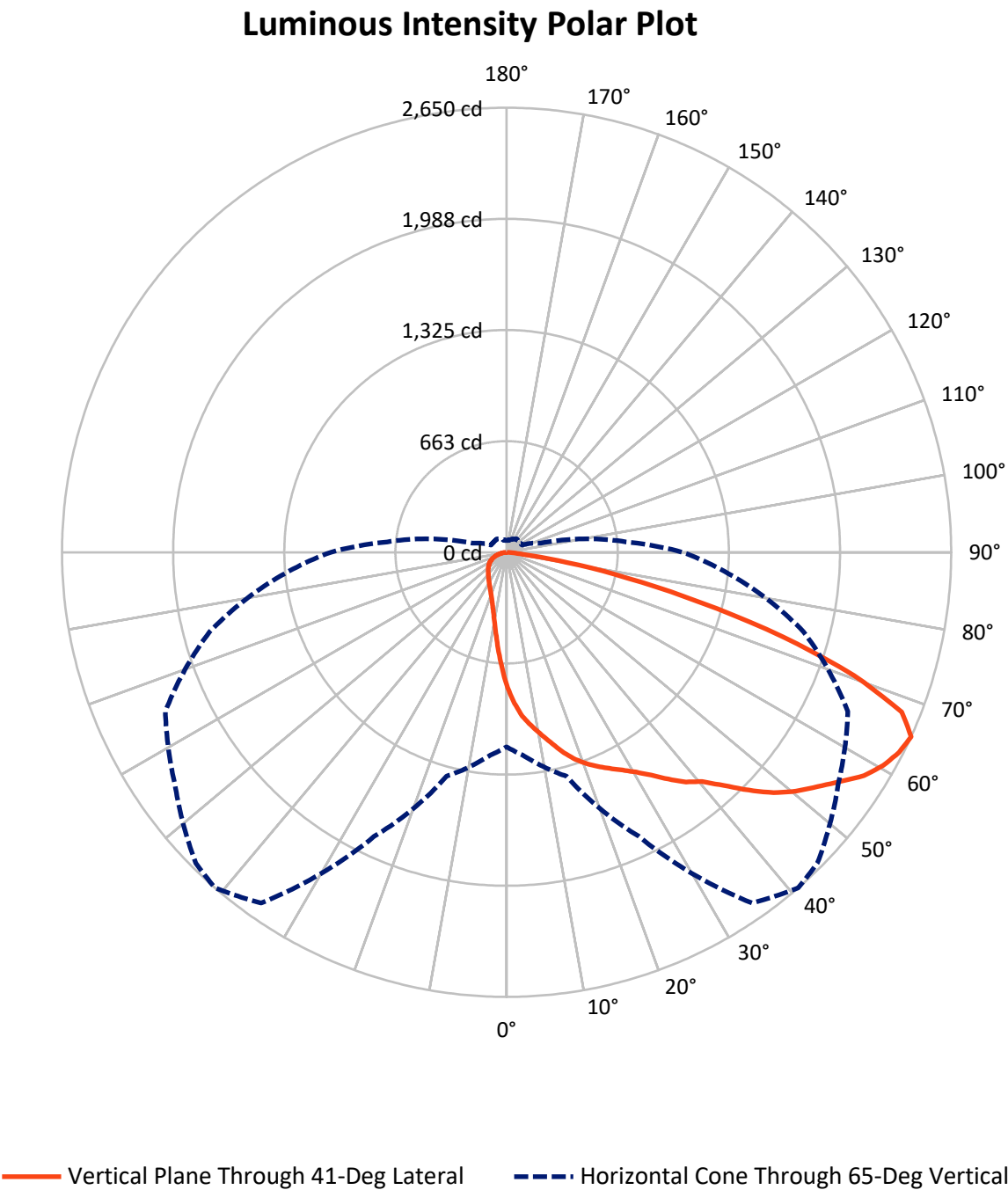


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Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

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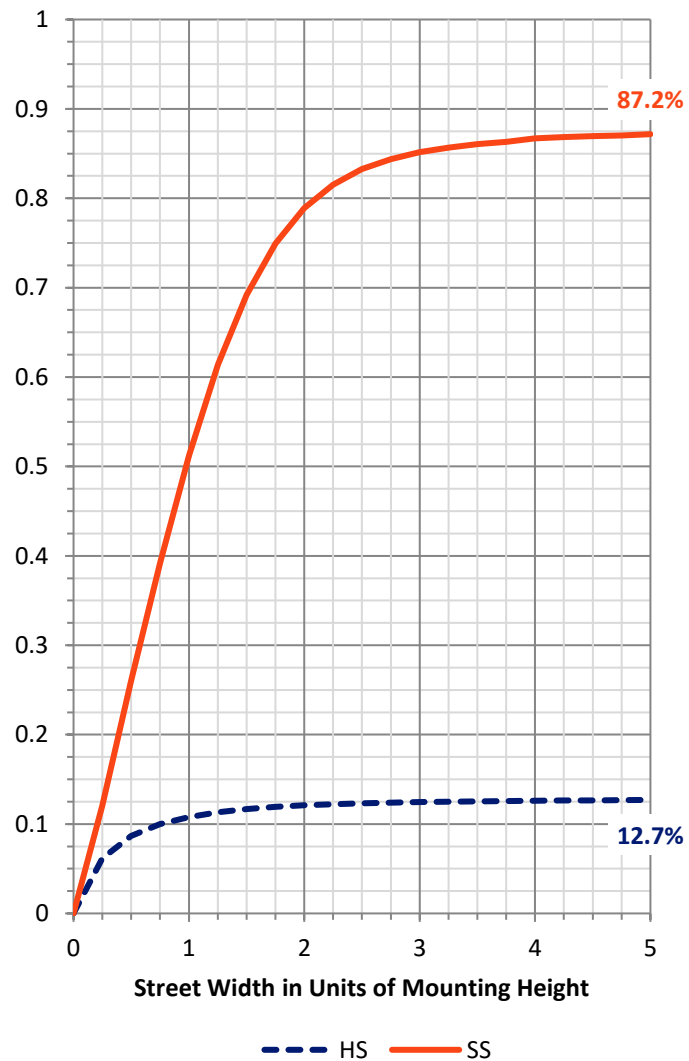
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	608.8	0.0	608.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4133.1	0.0	4133.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	4741.9	0.0	4741.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	1.6
10°-20°	225.7	4.8
20°-30°	388.4	8.2
30°-40°	589.0	12.4
40°-50°	862.9	18.2
50°-60°	1089.7	23.0
60°-70°	1021.8	21.5
70°-80°	455.4	9.6
80°-90°	33.7	0.7
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°	4741.9	100.0
0°-180°	4741.9	100.0

Coefficient of Utilization



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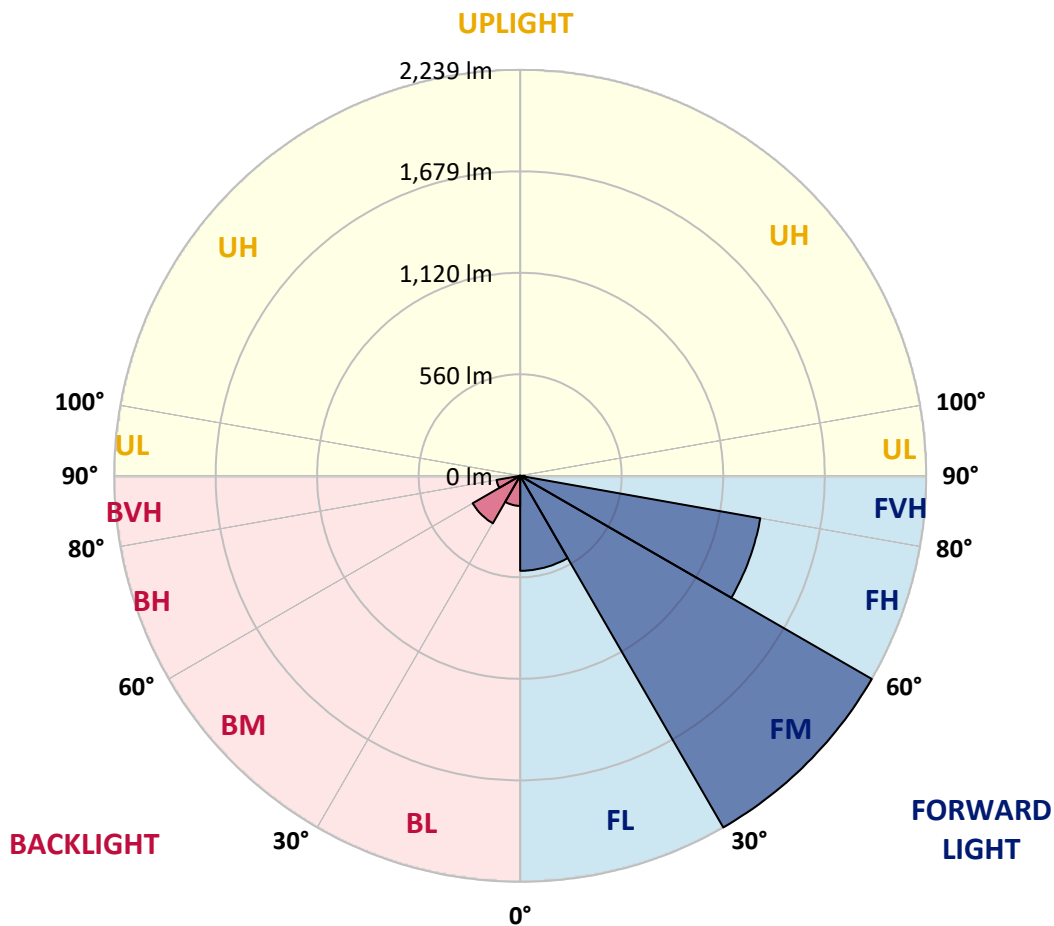
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.7	11.0			
FM	(30°-60°)	2239.3	47.2			
FH	(60°-80°)	1344.9	28.4			G1/1800
FVH	(80°-90°)	25.2	0.5			G1/100
BL	(0°-30°)	165.7	3.5	B1/500		
BM	(30°-60°)	302.3	6.4	B1/1000		
BH	(60°-80°)	132.2	2.8	B1/500		G1/500
BVH	(80°-90°)	8.5	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	808	808	808	808	808	808	808	808	808	808	808
2.5°	932	929	927	916	916	901	902	888	871	844	815
5°	1020	1016	1011	1000	996	981	979	959	930	883	831
7.5°	1097	1093	1086	1070	1059	1041	1036	1010	978	920	847
10°	1167	1164	1155	1135	1120	1098	1089	1054	1014	950	860
12.5°	1238	1234	1222	1205	1187	1161	1150	1105	1054	983	879
15°	1304	1298	1289	1271	1255	1230	1218	1165	1103	1020	904
17.5°	1347	1342	1334	1324	1311	1292	1280	1228	1152	1056	930
20°	1373	1371	1368	1362	1356	1343	1334	1285	1205	1091	955
22.5°	1393	1391	1390	1390	1391	1386	1380	1338	1256	1128	978
25°	1424	1423	1421	1419	1426	1427	1425	1396	1320	1177	1007
27.5°	1467	1464	1460	1458	1465	1470	1474	1454	1388	1227	1040
30°	1533	1524	1514	1507	1512	1520	1529	1517	1458	1289	1074
32.5°	1611	1600	1577	1564	1577	1583	1590	1584	1531	1356	1108
35°	1706	1693	1669	1650	1673	1660	1657	1651	1600	1422	1146
37.5°	1864	1845	1807	1765	1765	1737	1726	1708	1662	1481	1183
40°	2047	2022	1973	1911	1854	1796	1789	1776	1735	1549	1225
42.5°	2248	2200	2132	2057	1965	1899	1883	1846	1806	1618	1267
45°	2471	2371	2272	2234	2082	2022	1992	1925	1880	1690	1311
47.5°	2507	2429	2363	2357	2191	2141	2107	2011	1960	1767	1357
50°	2487	2440	2447	2423	2271	2238	2212	2103	2039	1841	1399
52.5°	2403	2429	2469	2425	2347	2320	2307	2202	2113	1909	1437
55°	2303	2321	2407	2461	2435	2411	2399	2317	2186	1966	1472
57.5°	2157	2149	2244	2455	2527	2513	2500	2430	2254	2007	1494
60°	1938	1921	2041	2335	2557	2579	2573	2505	2306	2006	1485
62.5°	1559	1601	1767	2139	2570	2626	2615	2511	2323	1948	1428
65°	1159	1219	1382	1869	2552	2650	2620	2413	2244	1833	1303
67.5°	835	888	1007	1538	2379	2540	2505	2253	2062	1670	1130
70°	571	609	690	1120	2031	2196	2174	2014	1775	1476	918
72.5°	403	419	471	739	1543	1723	1697	1657	1426	1227	714
75°	302	312	340	478	1041	1194	1170	1193	1065	929	520
77.5°	114	124	193	305	616	733	709	723	592	469	259
80°	31	33	64	145	280	365	332	285	220	216	137
82.5°	13	15	29	78	100	100	84	104	84	101	66
85°	5	6	7	20	13	14	15	20	17	21	15
87.5°	0	0	0	1	1	2	1	2	3	3	3
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°	808	808	808	808	808	808	808	808	808	808	808
2.5°	803	792	776	750	723	708	689	686	666	664	656
5°	808	785	744	694	645	607	579	564	535	535	527
7.5°	812	776	710	636	569	518	480	464	438	436	430
10°	813	765	673	577	495	443	406	388	365	363	359
12.5°	821	759	640	526	442	386	350	335	317	315	311
15°	834	759	612	483	395	343	312	298	285	283	281
17.5°	847	757	584	443	356	309	282	271	261	260	258
20°	859	756	556	409	326	281	260	250	242	242	241
22.5°	871	754	529	377	300	260	242	231	225	225	224
25°	889	754	504	350	279	244	226	218	213	212	212
27.5°	910	760	482	326	261	228	214	206	200	198	199
30°	933	765	462	305	244	216	201	193	187	185	186
32.5°	956	771	444	286	227	205	190	181	175	174	174
35°	981	777	426	270	213	194	180	170	166	164	165
37.5°	1006	787	409	255	203	184	171	161	158	157	157
40°	1036	802	402	245	194	175	164	154	151	151	151
42.5°	1061	814	396	234	187	167	157	149	147	146	147
45°	1086	825	388	224	178	159	151	143	141	141	141
47.5°	1111	831	377	214	170	152	145	138	136	136	136
50°	1131	836	361	203	161	146	139	132	130	130	130
52.5°	1151	837	344	190	152	139	133	126	124	123	123
55°	1169	836	324	175	142	131	126	120	116	112	114
57.5°	1182	835	301	160	132	123	121	113	105	95	97
60°	1177	824	276	141	121	115	115	104	90	85	86
62.5°	1145	793	250	121	110	107	106	94	83	78	79
65°	1049	715	212	103	99	98	98	87	77	71	72
67.5°	903	600	173	87	88	90	90	80	70	64	65
70°	724	469	138	75	76	79	81	72	63	57	57
72.5°	545	356	111	63	68	68	71	64	55	49	50
75°	395	255	88	53	59	58	58	54	47	43	43
77.5°	187	134	70	38	46	45	46	43	40	36	37
80°	92	66	45	27	32	33	36	34	33	30	30
82.5°	44	26	21	19	22	23	25	25	26	24	24
85°	12	7	9	12	14	15	17	18	18	17	18
87.5°	3	3	4	6	7	8	9	9	4	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)