

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: P799043

Luminaire Tested: **ARCH1-50-750-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6887 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

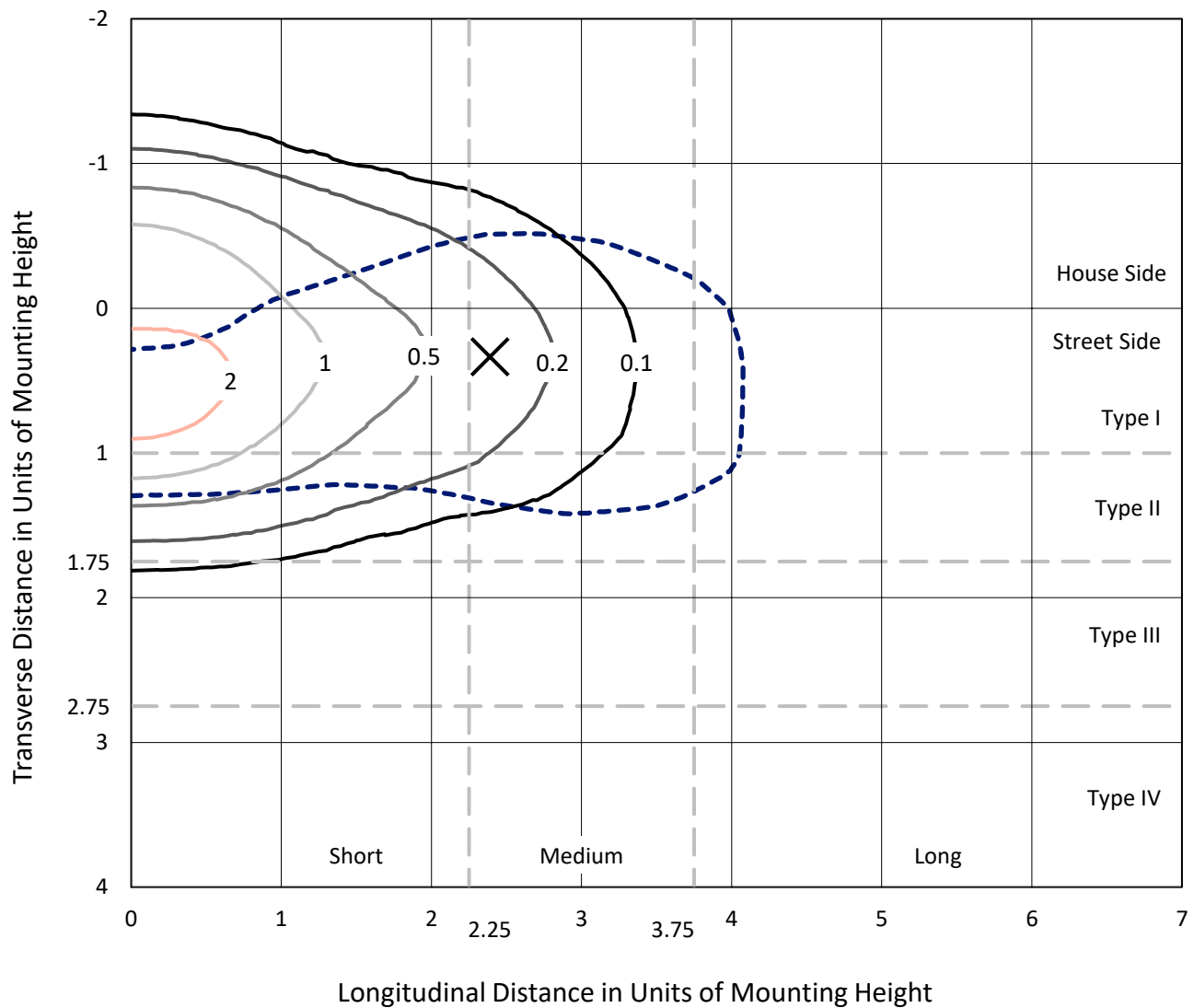


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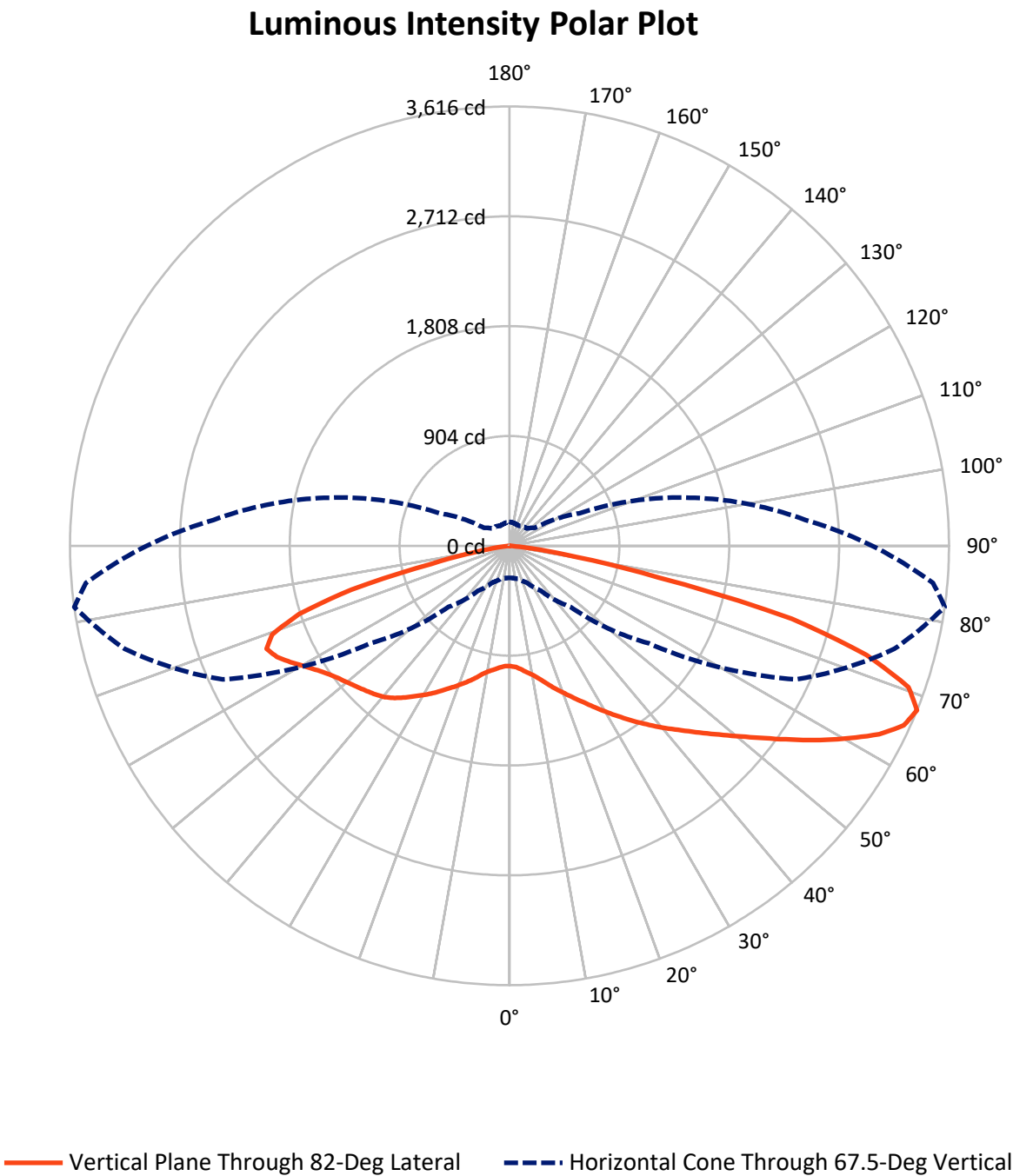
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type II - Medium - N/A

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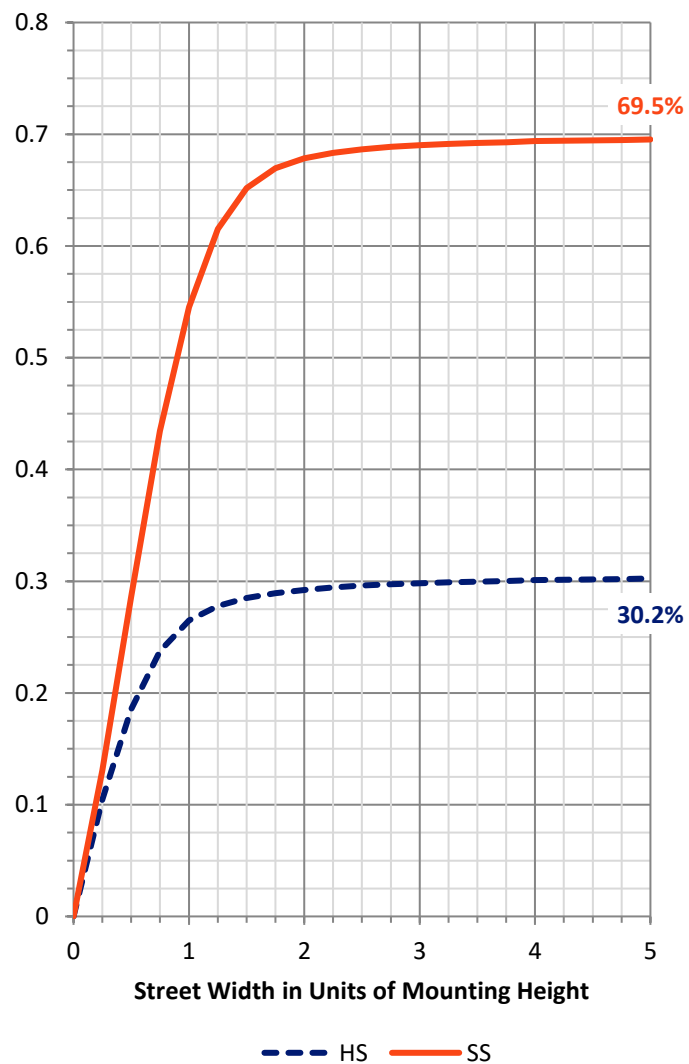
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2097.4	0.0	2097.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4789.6	0.0	4789.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	6887.0	0.0	6887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.5
10°-20°	368.5	5.4
20°-30°	740.7	10.8
30°-40°	1163.5	16.9
40°-50°	1417.3	20.6
50°-60°	1339.2	19.4
60°-70°	1105.9	16.1
70°-80°	602.2	8.7
80°-90°	47.3	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°	6887.0	100.0
0°-180°	6887.0	100.0

Coefficient of Utilization



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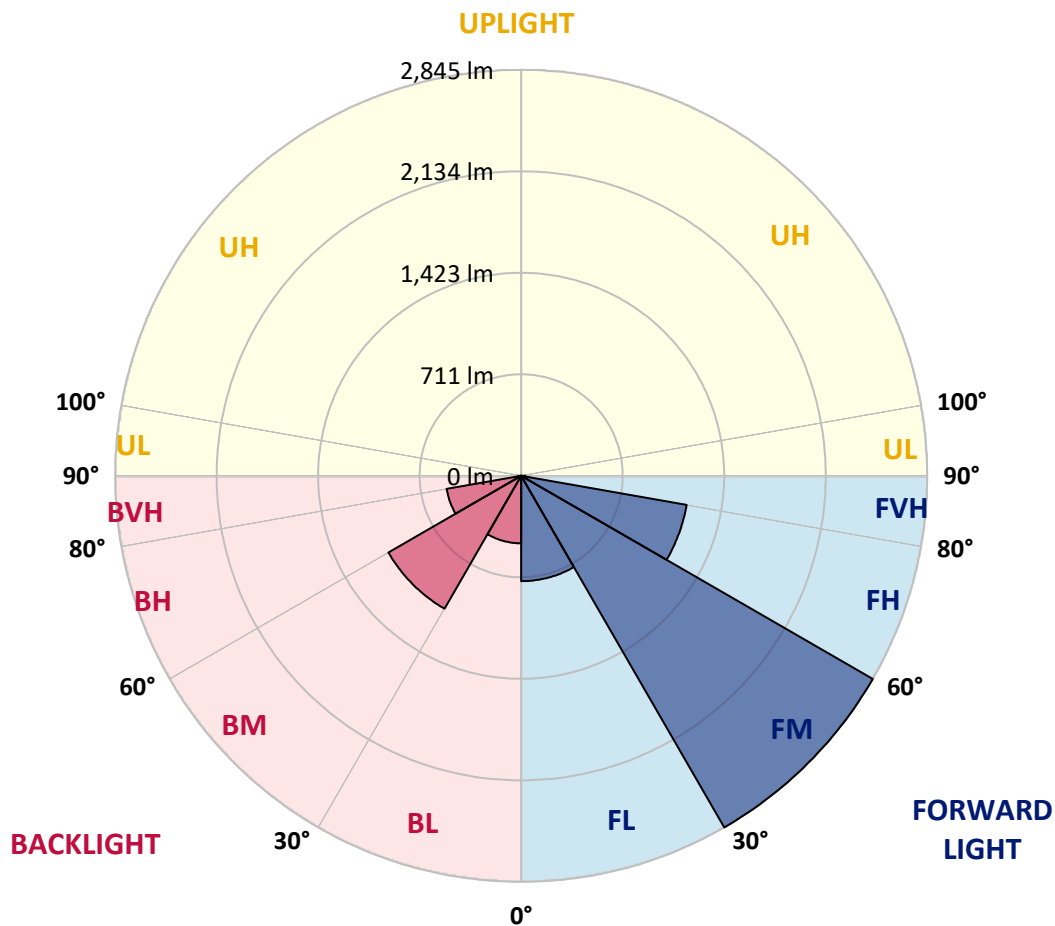
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.5	10.7			
FM	(30°-60°)	2845.3	41.3			
FH	(60°-80°)	1177.2	17.1			G1/1800
FVH	(80°-90°)	28.5	0.4			G1/100
BL	(0°-30°)	473.0	6.9	B1/500		
BM	(30°-60°)	1074.7	15.6	B2/2500		
BH	(60°-80°)	530.9	7.7	B2/1000		G2/1000
BVH	(80°-90°)	18.8	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	990	990	990	990	990	990	990	990	990	990	990
2.5°	1035	1035	1043	1043	1036	1025	1022	1010	999	999	1000
5°	1134	1133	1139	1131	1114	1092	1077	1051	1029	1022	1021
7.5°	1255	1254	1257	1244	1212	1176	1146	1104	1068	1053	1049
10°	1390	1389	1386	1364	1321	1265	1220	1162	1108	1084	1079
12.5°	1545	1543	1536	1504	1445	1373	1308	1233	1161	1128	1117
15°	1718	1715	1702	1663	1584	1493	1409	1313	1225	1182	1167
17.5°	1900	1900	1880	1822	1734	1621	1517	1395	1292	1239	1221
20°	2085	2084	2059	1989	1885	1755	1623	1489	1361	1297	1275
22.5°	2280	2278	2247	2167	2043	1896	1742	1582	1437	1360	1332
25°	2504	2501	2463	2365	2218	2052	1876	1691	1524	1430	1397
27.5°	2742	2738	2693	2579	2418	2218	2024	1817	1620	1508	1471
30°	2954	2951	2902	2785	2600	2383	2165	1943	1721	1591	1545
32.5°	3114	3114	3070	2955	2763	2541	2307	2062	1826	1680	1626
35°	3211	3214	3176	3084	2903	2690	2454	2202	1938	1775	1717
37.5°	3225	3235	3213	3151	3000	2814	2598	2337	2054	1871	1806
40°	3160	3167	3168	3144	3040	2903	2725	2480	2177	1972	1897
42.5°	3030	3035	3044	3051	3011	2942	2822	2613	2308	2075	1987
45°	2862	2861	2876	2906	2904	2920	2876	2734	2444	2192	2087
47.5°	2611	2606	2659	2727	2761	2836	2877	2829	2592	2321	2201
50°	2218	2213	2329	2489	2589	2703	2822	2886	2747	2466	2325
52.5°	1740	1735	1882	2162	2380	2546	2711	2899	2894	2628	2465
55°	1294	1290	1433	1736	2089	2364	2575	2865	3032	2814	2635
57.5°	912	910	1034	1285	1715	2142	2444	2799	3159	3016	2827
60°	640	637	727	921	1297	1807	2314	2711	3254	3215	3031
62.5°	431	429	493	655	921	1391	2117	2652	3308	3415	3237
65°	327	326	355	444	652	999	1804	2645	3315	3565	3412
67.5°	264	265	281	332	451	710	1399	2601	3278	3616	3497
70°	216	216	223	257	333	479	977	2401	3175	3483	3396
72.5°	165	166	188	208	251	336	626	1987	2932	3071	3005
75°	131	130	143	171	195	240	384	1425	2495	2400	2358
77.5°	94	93	103	127	148	170	229	719	1357	1247	1216
80°	64	62	71	88	98	100	112	276	592	558	551
82.5°	33	33	38	50	51	52	50	89	196	183	175
85°	13	13	14	17	17	18	18	23	21	20	19
87.5°	1	1	2	2	3	3	3	4	5	5	5
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°	990	990	990	990	990	990	990	990	990	990	990
2.5°	998	994	981	978	976	973	974	967	964	965	961
5°	1016	1009	993	986	984	981	984	979	974	976	974
7.5°	1041	1031	1011	1004	1003	1000	1004	1000	996	998	994
10°	1067	1054	1032	1025	1025	1024	1028	1022	1018	1019	1017
12.5°	1105	1088	1064	1058	1055	1058	1059	1051	1044	1045	1042
15°	1151	1132	1106	1097	1095	1094	1090	1080	1071	1070	1067
17.5°	1201	1177	1146	1137	1128	1125	1115	1102	1088	1088	1084
20°	1249	1222	1185	1172	1159	1147	1130	1109	1091	1088	1084
22.5°	1301	1269	1226	1207	1184	1160	1131	1103	1080	1075	1072
25°	1359	1319	1268	1240	1203	1166	1123	1087	1060	1052	1050
27.5°	1423	1375	1313	1272	1218	1160	1105	1062	1029	1019	1016
30°	1488	1431	1354	1294	1218	1141	1072	1022	984	970	968
32.5°	1553	1489	1391	1306	1206	1109	1029	970	927	910	914
35°	1631	1553	1425	1311	1186	1070	980	911	867	852	855
37.5°	1712	1617	1452	1307	1158	1026	925	858	803	777	780
40°	1782	1675	1471	1293	1122	976	871	783	707	682	679
42.5°	1848	1718	1481	1272	1081	918	794	681	605	574	575
45°	1917	1760	1477	1244	1030	850	695	581	514	486	487
47.5°	1996	1805	1473	1214	968	762	600	493	435	415	413
50°	2080	1855	1468	1177	899	664	506	411	362	349	346
52.5°	2175	1909	1465	1133	816	560	422	339	306	297	296
55°	2289	1972	1469	1080	716	462	351	292	270	265	264
57.5°	2428	2053	1481	1018	611	377	299	263	249	245	245
60°	2579	2145	1503	948	506	311	265	240	234	239	239
62.5°	2742	2253	1542	863	408	263	238	221	217	227	228
65°	2893	2358	1567	761	324	228	217	202	204	214	213
67.5°	2986	2445	1532	633	257	202	195	182	187	195	196
70°	2929	2396	1359	478	201	176	171	163	167	177	181
72.5°	2650	2146	1057	323	162	148	150	146	151	160	169
75°	2151	1622	709	207	128	126	129	126	128	137	142
77.5°	1123	791	353	129	95	98	103	104	110	112	114
80°	524	356	147	72	63	69	79	80	82	85	86
82.5°	171	107	68	39	36	39	51	61	62	68	68
85°	18	11	15	16	14	17	23	22	10	6	6
87.5°	5	4	5	5	4	4	3	1	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)