

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768834

Luminaire Tested: **GMX91SXXASF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768834
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX91SXXASF
Description: MEDIUM GALLERIA TYPE V SQUARE
Light Source: 1000 WATT HPS CLEAR ED-37
Ballast/Driver: -

Summary

Lumens per Lamp: 135000 (1 lamp)
Luminaire Lumens: 94318 lumens
Efficiency: 69.9%
Efficacy: 94.3 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 1000
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



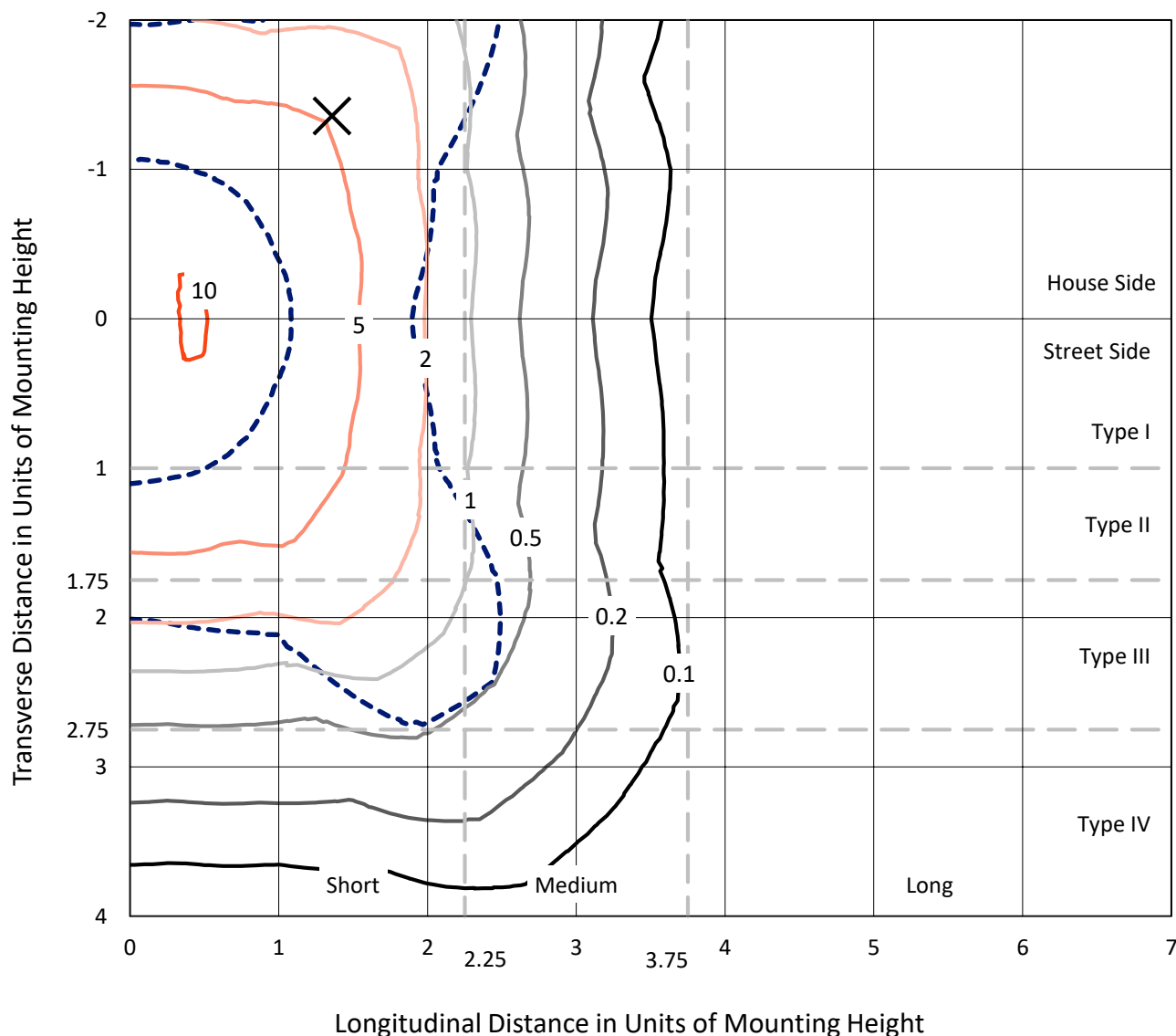
REPORT NUMBER: 768834

CATALOG NUMBER: GMX91SXXASF

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

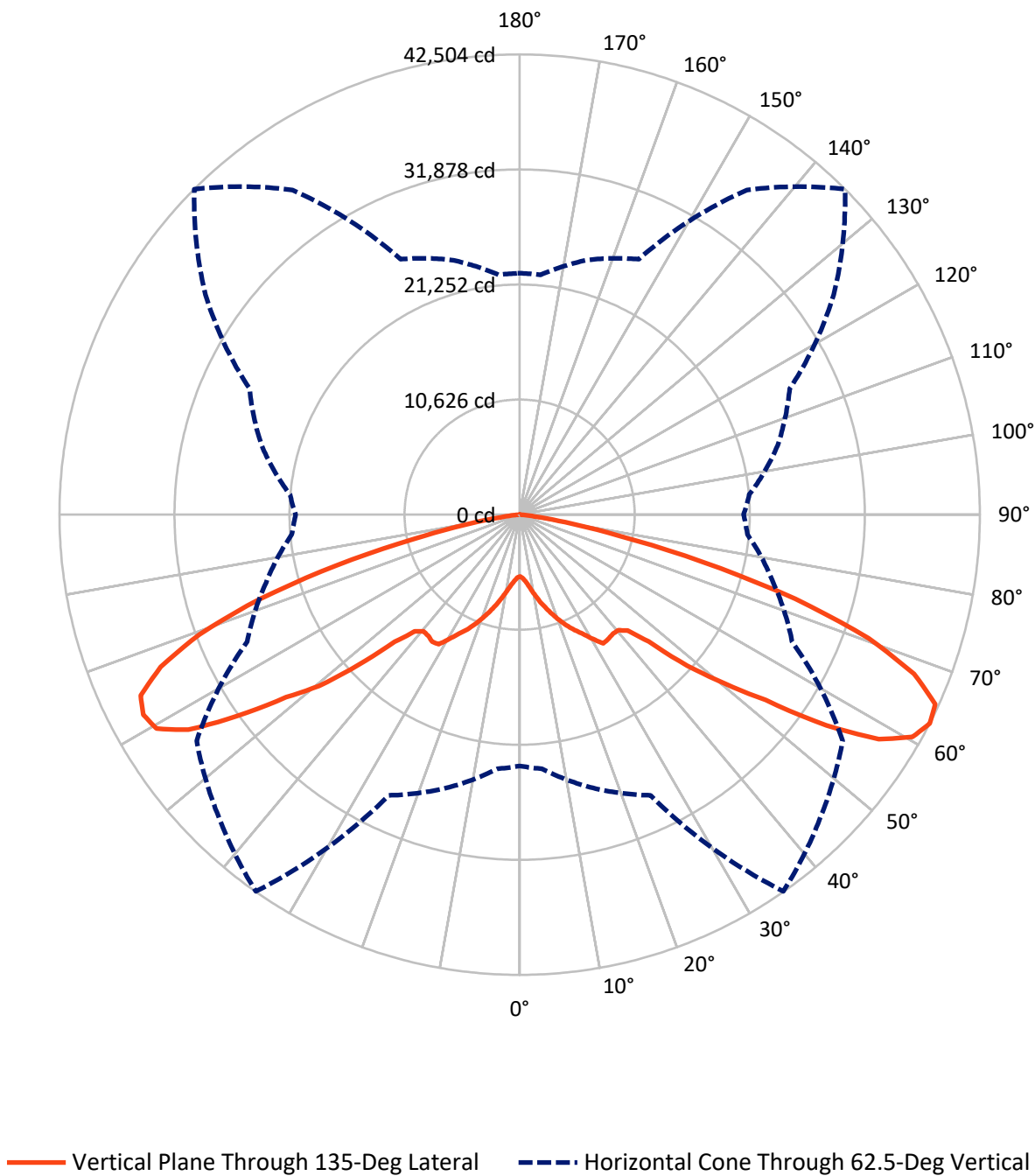


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: 768834

CATALOG NUMBER: GMX91SXXASF

Luminous Intensity Polar Plot



REPORT NUMBER: 768834

CATALOG NUMBER: GMX91SXXASF

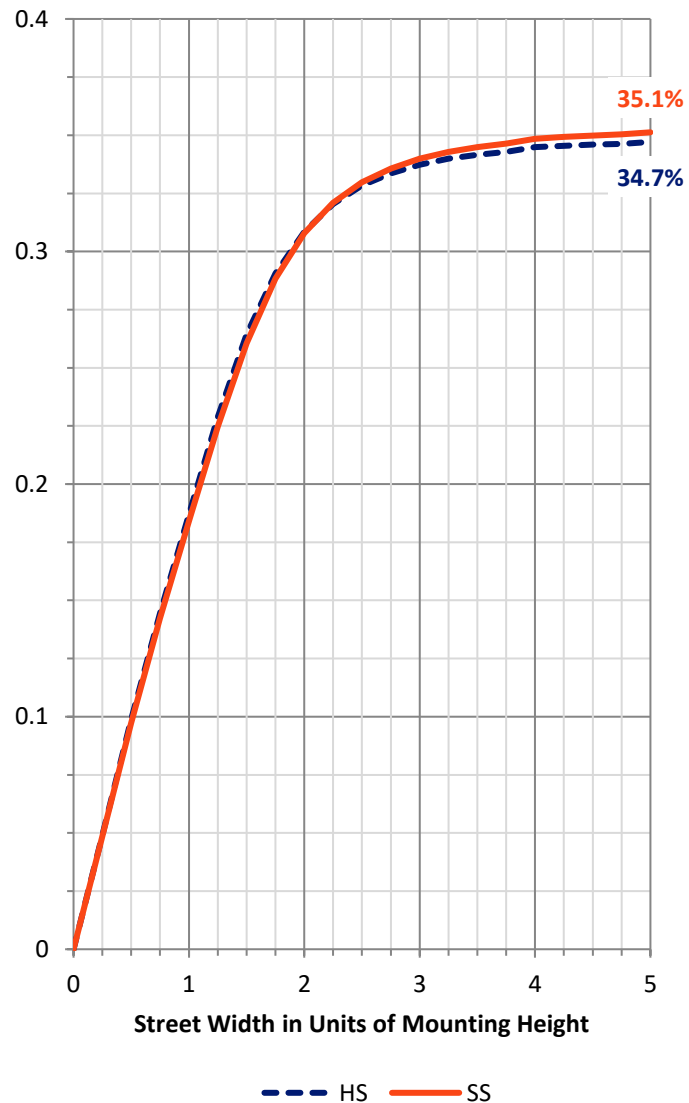
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46849.9	0.0	46849.9
	% Lamp	34.7	0.0	34.7
Street Side	Lumens	47468.2	0.0	47468.2
	% Lamp	35.2	0.0	35.2
Total	Lumens	94318.0	0.0	94318.0
	% Lamp	69.9	0.0	69.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	627.7	0.7	0.5
10°-20°	2584.6	2.7	1.9
20°-30°	5547.2	5.9	4.1
30°-40°	8646.4	9.2	6.4
40°-50°	14371.5	15.2	10.6
50°-60°	27020.8	28.6	20.0
60°-70°	25198.6	26.7	18.7
70°-80°	9588.8	10.2	7.1
80°-90°	732.5	0.8	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	94318.0	100.0	69.9
0°-180°	94318.0	100.0	69.9

Coefficient of Utilization



REPORT NUMBER: 768834

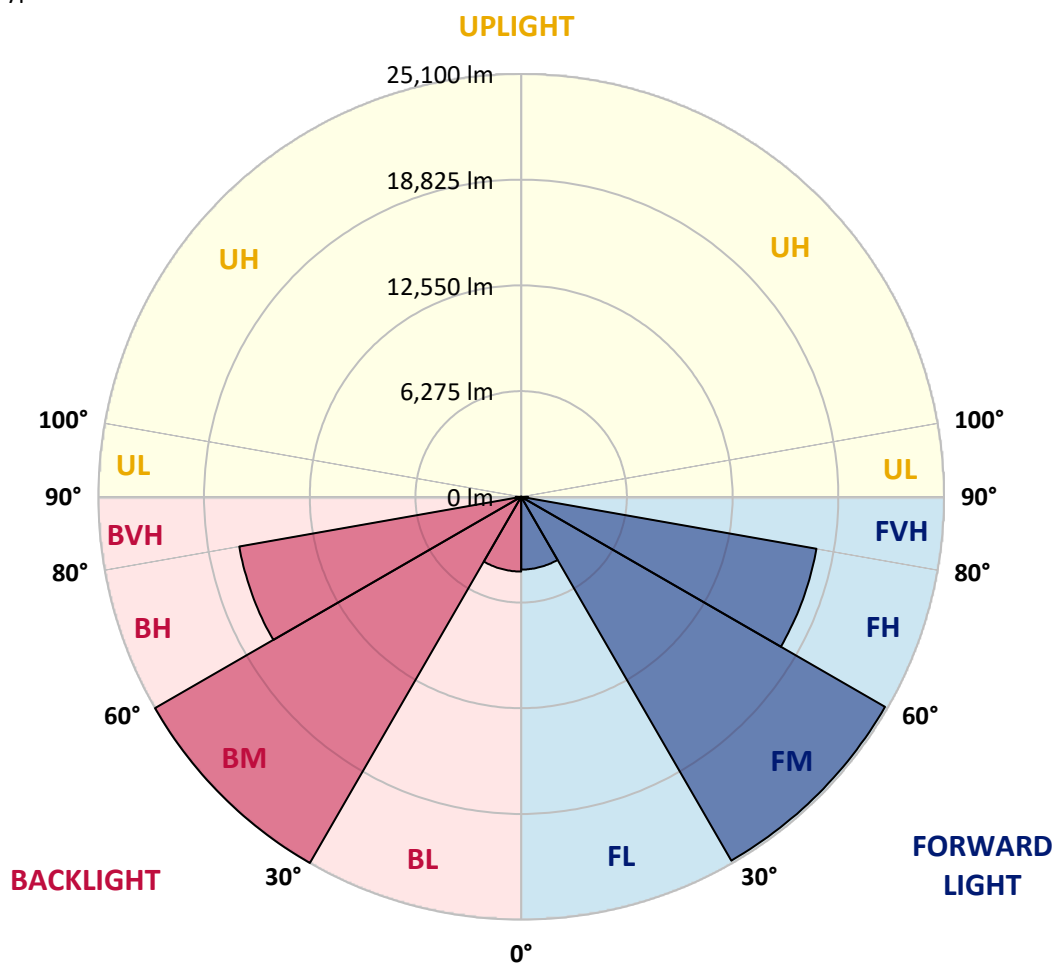
CATALOG NUMBER: GMX91SXXASF

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4321.1	3.2			
FM	(30°-60°)	24938.8	18.5			
FH	(60°-80°)	17796.8	13.2			G5
FVH	(80°-90°)	411.5	0.3			G3/500
BL	(0°-30°)	4438.4	3.3	B4/5000		
BM	(30°-60°)	25099.9	18.6	B5		
BH	(60°-80°)	16990.6	12.6	B5		G5
BVH	(80°-90°)	321.0	0.2			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		40682.0	30.1			

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: 768834

CATALOG NUMBER: GMX91SXXASF

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5706	5706	5706	5706	5706	5706	5706	5706	5706	5706	5706
2.5°	5819	5814	5824	5819	5819	5819	5829	5834	5824	5824	5829
5°	6106	6091	6096	6106	6122	6127	6137	6112	6112	6153	6163
7.5°	6558	6568	6573	6563	6538	6553	6579	6609	6656	6686	6722
10°	7153	7143	7143	7122	7076	7138	7235	7343	7425	7523	7574
12.5°	7841	7841	7846	7784	7723	7851	8062	8241	8354	8508	8513
15°	8529	8513	8503	8416	8354	8585	8893	9139	9242	9391	9401
17.5°	9185	9180	9139	9047	8995	9319	9734	10058	10145	10263	10309
20°	9914	9914	9893	9745	9698	10083	10581	10961	11022	11135	11176
22.5°	10653	10658	10679	10504	10448	10874	11423	11782	11808	11890	11910
25°	11361	11356	11356	11238	11176	11638	12187	12480	12428	12428	12511
27.5°	12038	12028	12018	11915	12018	12336	12952	13106	12947	12880	12988
30°	12562	12572	12649	12480	12788	13172	13701	13701	13414	13172	13280
32.5°	13013	12993	13193	12947	13424	14112	14286	14224	13665	13178	13311
35°	13444	13403	13527	13332	13450	14235	14358	14537	13768	13439	13568
37.5°	14091	14004	13891	13393	13280	14019	14291	14517	14086	13978	14076
40°	14902	14794	14507	13696	13403	13952	14517	14871	14640	14594	14655
42.5°	15713	15713	15425	14461	14050	14512	15307	15831	15692	15512	15589
45°	17365	17457	17350	16195	15933	16446	17385	18011	17955	17652	17791
47.5°	20721	21013	20993	19915	19766	20362	21393	22035	21578	21475	21804
50°	24426	24646	24554	23949	24462	24344	25570	25883	24847	24929	25226
52.5°	26673	27099	26832	26689	28854	27376	28680	28321	27207	26838	26945
55°	28541	29111	29845	29696	34571	32020	33211	30912	29840	28403	28280
57.5°	29106	29691	31810	31974	39610	36475	36803	32585	30712	28228	27900
60°	27063	27633	29988	31358	42176	38922	37655	31343	28182	25257	24960
62.5°	23205	23559	26135	28603	42468	39358	36413	27766	24241	21121	20680
65°	18535	18884	21465	24410	40395	38773	34063	23548	19956	16918	16364
67.5°	14266	14435	16652	19648	35946	36008	29870	18555	15477	12736	12203
70°	10612	10648	12623	15230	30286	31569	24811	13834	11520	9114	8611
72.5°	7410	7323	8893	11361	23533	25231	19264	9817	8036	6332	5906
75°	4536	4526	5578	8000	16806	17493	13865	6609	4993	3772	3443
77.5°	2237	2448	2602	5085	10186	10006	8595	4013	2653	1817	1647
80°	1303	1663	1699	3530	4485	5080	4223	2550	1796	1134	1067
82.5°	688	759	970	1863	1391	1765	1309	1262	893	595	575
85°	257	277	313	375	400	498	405	298	257	216	195
87.5°	41	51	51	51	62	67	62	41	31	26	21
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: 768834

CATALOG NUMBER: GMX91SXXASF

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5706	5706	5706	5706	5706	5706	5706	5706	5706	5706
2.5°	5819	5819	5829	5850	5886	5896	5917	5927	5932	5932
5°	6163	6199	6204	6224	6255	6286	6291	6255	6199	6199
7.5°	6732	6768	6815	6820	6820	6825	6799	6789	6753	6753
10°	7574	7564	7600	7543	7466	7441	7477	7497	7507	7492
12.5°	8513	8498	8498	8369	8195	8154	8221	8298	8349	8344
15°	9385	9375	9370	9185	8888	8842	8949	9088	9165	9175
17.5°	10278	10248	10263	9996	9616	9498	9652	9832	9909	9924
20°	11161	11110	11135	10833	10371	10196	10402	10627	10689	10704
22.5°	11905	11854	11915	11623	11105	10884	11140	11402	11474	11464
25°	12475	12428	12608	12310	11813	11546	11782	11967	12069	12038
27.5°	12895	12885	13193	12972	12464	12074	12300	12454	12531	12572
30°	13172	13326	13686	13609	13316	12557	12752	12952	12931	12921
32.5°	13147	13598	14106	14199	14173	13147	13162	13383	13090	13085
35°	13367	13681	14271	14224	14106	13147	13403	13588	13398	13465
37.5°	13922	14076	14373	14296	13968	13183	13470	13978	13942	14040
40°	14522	14712	14850	14620	14029	13470	13958	14661	14702	14779
42.5°	15482	15738	15831	15317	14635	14224	15020	15887	16005	15990
45°	17673	17955	18119	17493	16708	16364	17447	18484	18622	18412
47.5°	21521	21711	22086	21727	20854	20865	21680	21896	22342	22312
50°	24924	24965	25586	25488	24513	25190	25154	24826	25432	25298
52.5°	26976	27448	28208	28972	28444	28967	27464	27130	27530	27351
55°	28711	30773	31328	33606	34371	33375	29993	29742	29306	28900
57.5°	28434	31384	32672	36300	39128	36362	30989	30404	29172	28870
60°	25586	28711	31128	36603	41683	37208	29249	28126	26360	26345
62.5°	21290	24667	27520	35412	42504	36587	26032	24354	22230	22291
65°	17016	20228	23174	33011	42181	34417	21947	20074	17945	17970
67.5°	12793	15713	18381	28844	39292	30573	17611	15990	13722	13650
70°	9124	11761	13732	23769	34206	25442	13398	12085	9852	9822
72.5°	6276	8421	9442	18206	26643	19705	9483	8544	6599	6640
75°	3690	5455	5711	12500	17344	13809	5804	5506	3705	3654
77.5°	1965	3207	3079	7348	9298	8277	3058	3099	1924	1652
80°	1196	2063	2294	3310	4269	3613	1950	1919	1175	1129
82.5°	590	775	980	1042	1380	1067	913	811	564	544
85°	200	221	236	272	323	277	221	190	154	144
87.5°	21	26	26	31	36	26	21	10	10	10
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)