

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: 768834

Luminaire Tested: **GSM-AM-1000-HPS-MT-AS-FG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 768834
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSM-AM-1000-HPS-MT-AS-FG
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-SQUARE DISTRIBUTION
Light Source: 1000 WATT HPS CLEAR BT-37
Ballast/Driver: -

Summary

Lumens per Lamp: 135000 (1 lamp)
Luminaire Lumens: 94936.3 lumens
Efficiency: 70.3%
Efficacy: 94.9 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: 25 FT

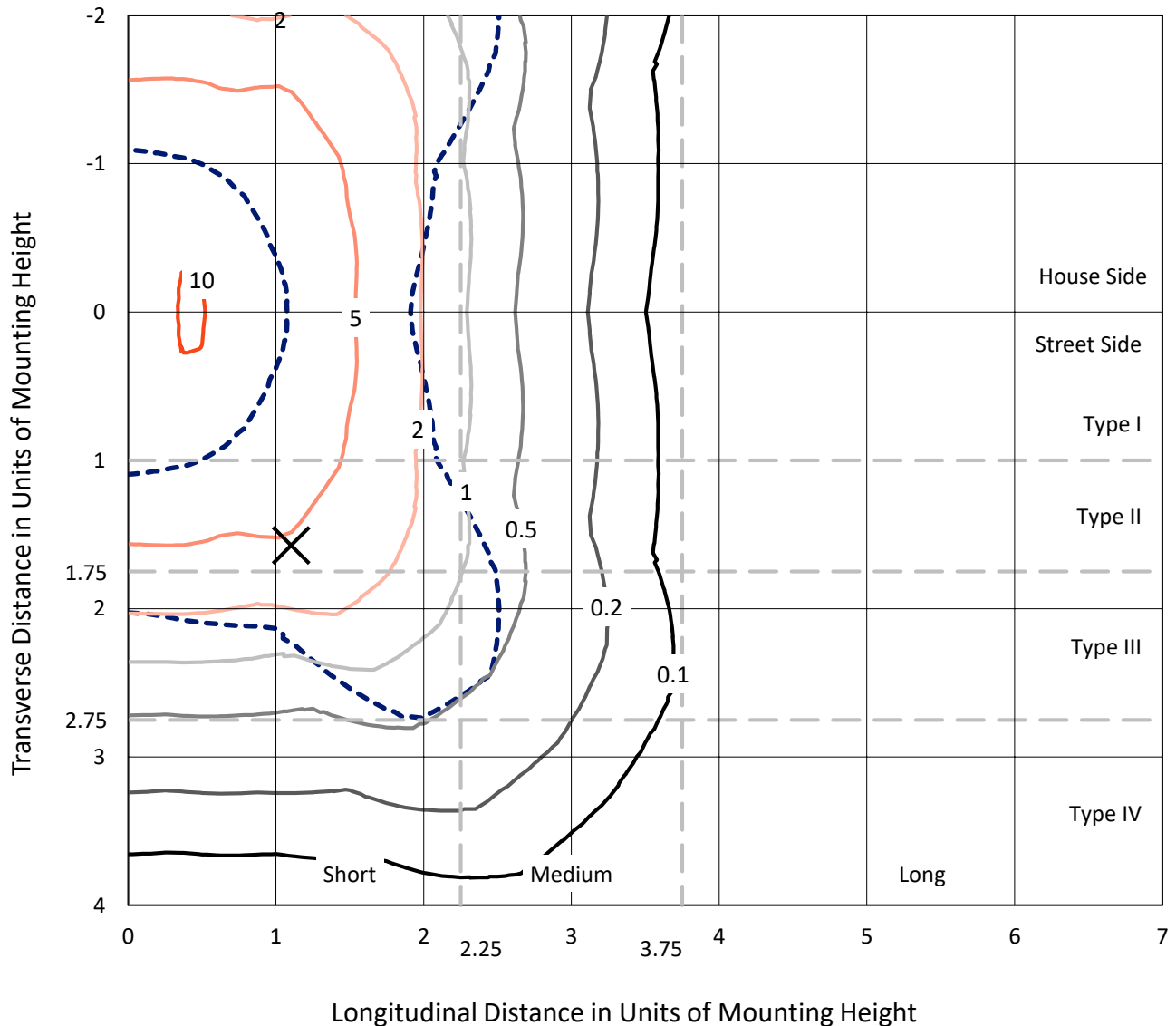


REPORT NUMBER: 768834

CATALOG NUMBER: GSM-AM-1000-HPS-MT-AS-FG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

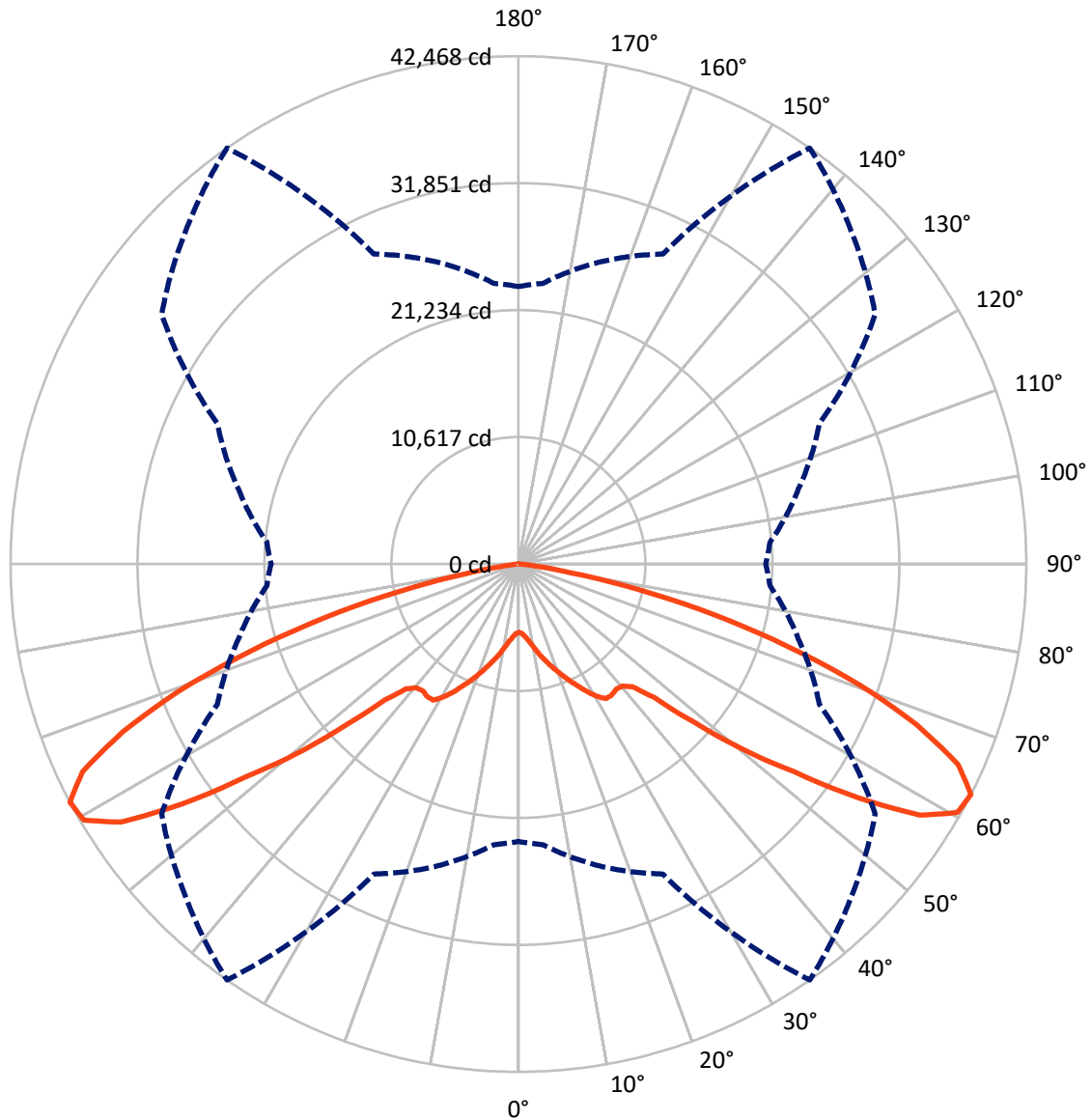


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: 768834

CATALOG NUMBER: GSM-AM-1000-HPS-MT-AS-FG

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: 768834

CATALOG NUMBER: GSM-AM-1000-HPS-MT-AS-FG

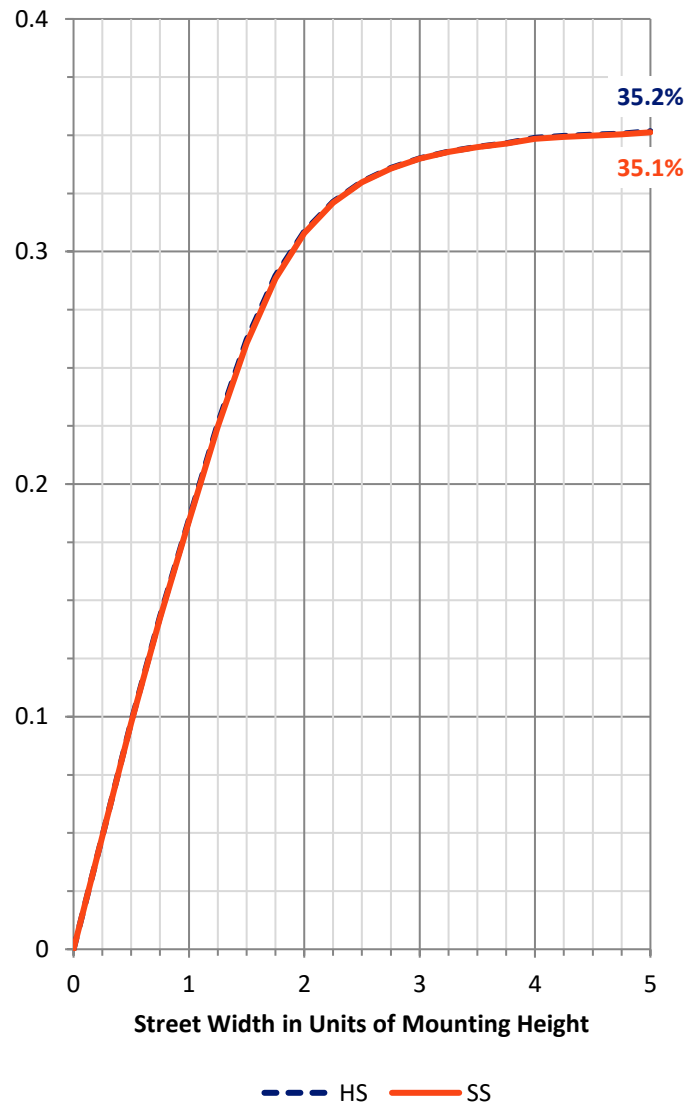
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47468.2	0.0	47468.2
	% Lamp	35.2	0.0	35.2
Street Side	Lumens	47468.2	0.0	47468.2
	% Lamp	35.2	0.0	35.2
Total	Lumens	94936.3	0.0	94936.3
	% Lamp	70.3	0.0	70.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	619.6	0.7	0.5
10°-20°	2534.5	2.7	1.9
20°-30°	5488.0	5.8	4.1
30°-40°	8650.8	9.1	6.4
40°-50°	14217.6	15.0	10.5
50°-60°	27009.2	28.4	20.0
60°-70°	25622.0	27.0	19.0
70°-80°	9971.6	10.5	7.4
80°-90°	823.0	0.9	0.6
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°	94936.3	100.0	70.3
0°-180°	94936.3	100.0	70.3



REPORT NUMBER: 768834

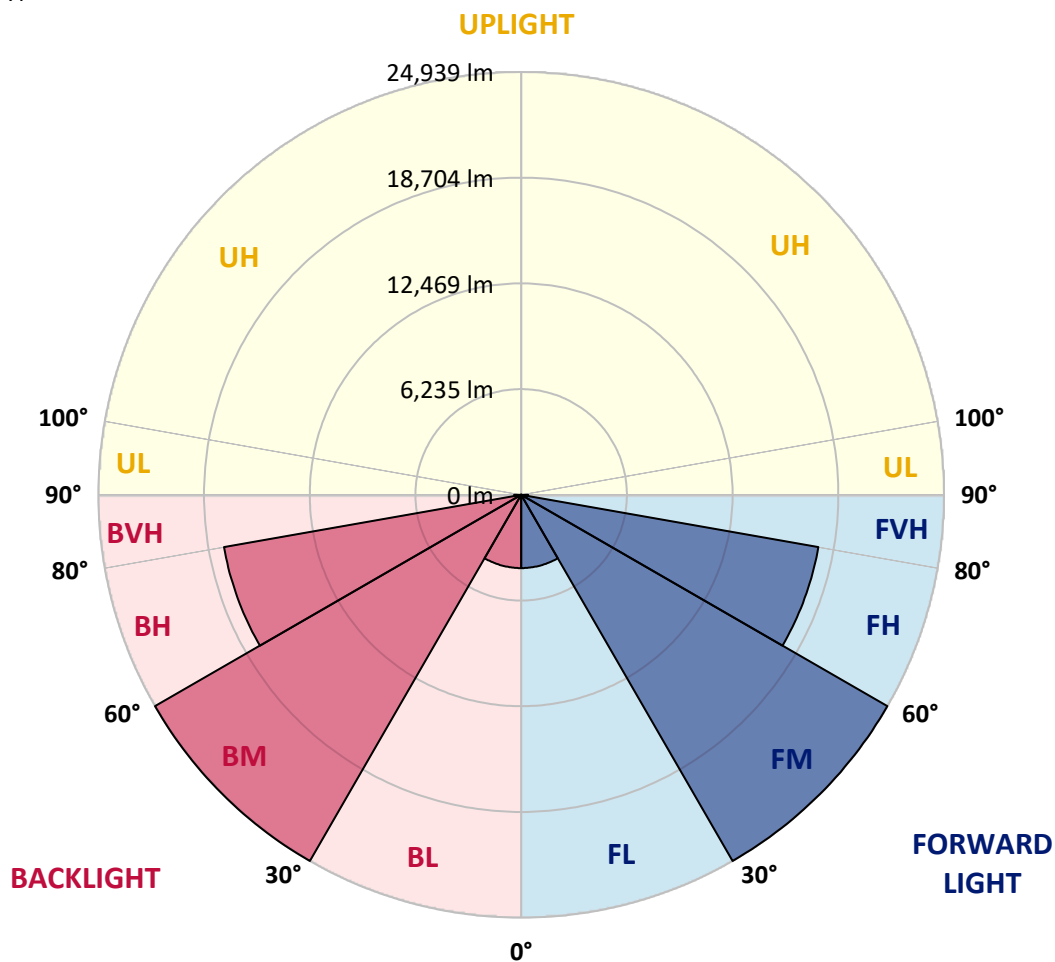
CATALOG NUMBER: GSM-AM-1000-HPS-MT-AS-FG

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°)	4321.1	3.2	B4/5000		
BM (30°-60°)	24938.8	18.5	B5		
BH (60°-80°)	17796.8	13.2	B5		G5
BVH (80°-90°)	411.5	0.3			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	40063.7	29.7			

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: 768834

CATALOG NUMBER: GSM-AM-1000-HPS-MT-AS-FG

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: GSM-AM-1000-HPS-MT-AS-FG

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

(END OF REPORT)