

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: ITL53964

Luminaire Tested: **GSM-XX-400-HPS-XX-2S-XX-FG-HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL53964
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-400-HPS-XX-2S-XX-FG-HS
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE - TYPE II DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: 400 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 50000 (1 lamp)
Luminaire Lumens: 27495 lumens
Efficiency: 55.0%
Efficacy: 68.7 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 400
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

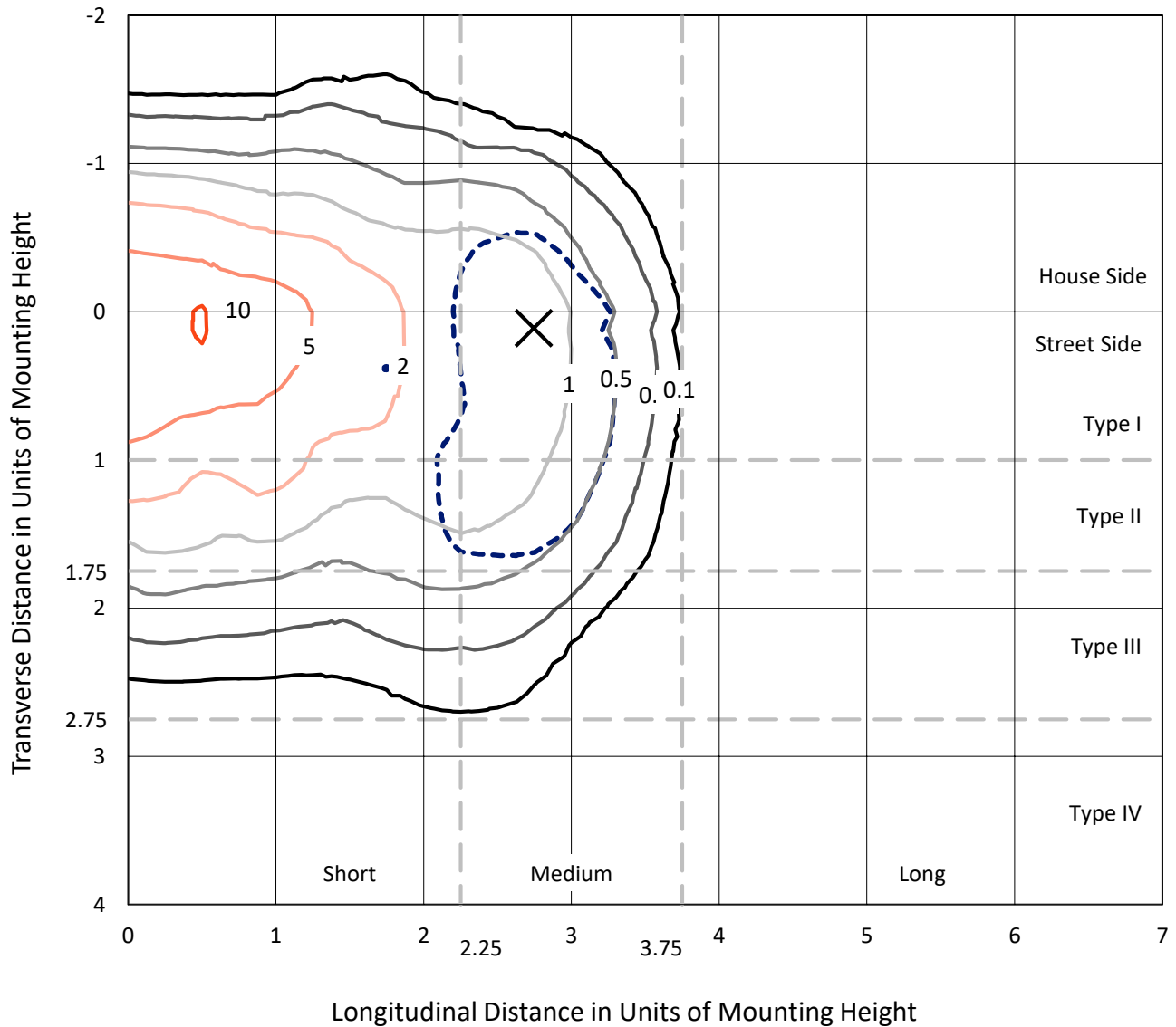


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

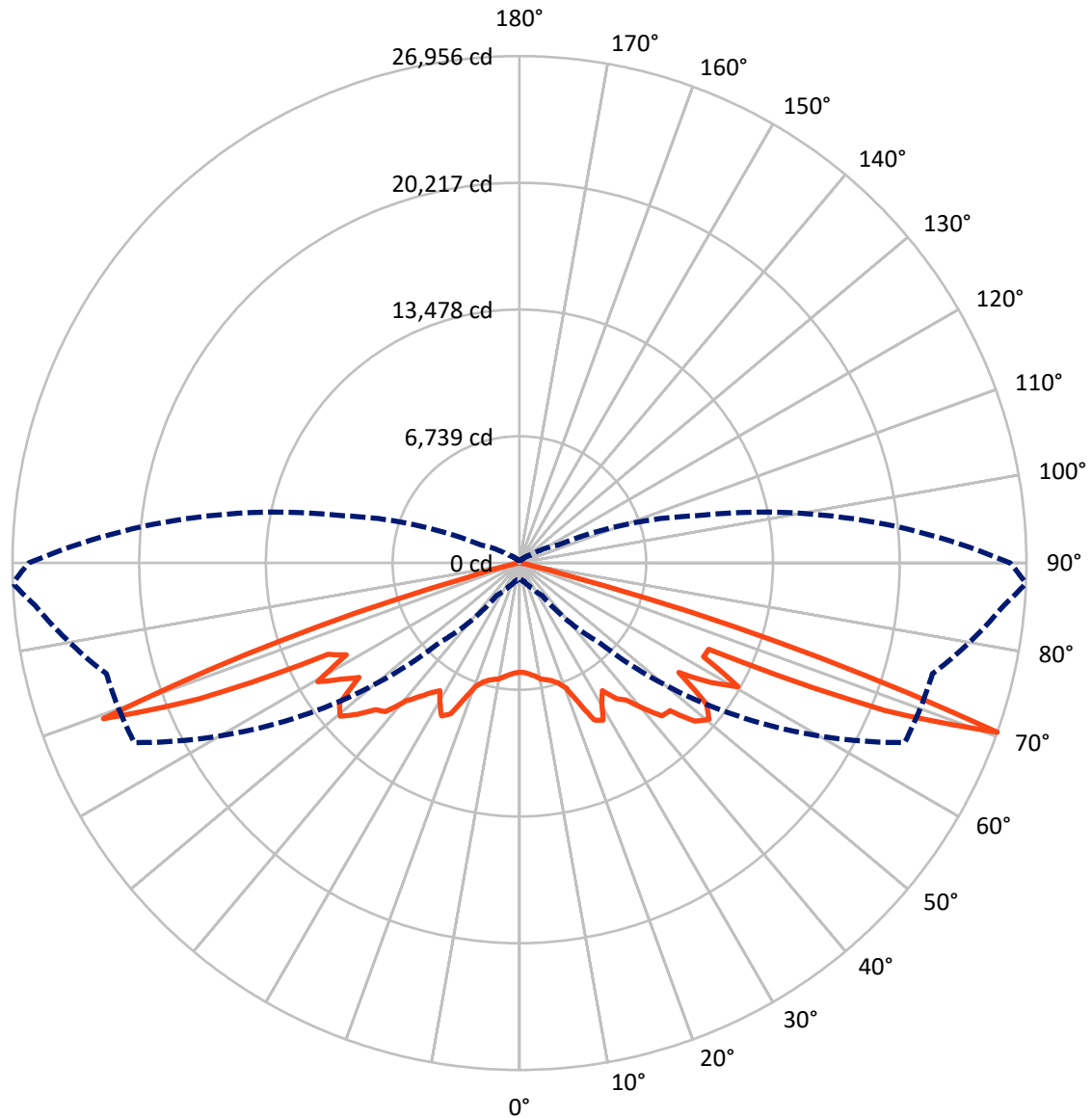


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 87.7-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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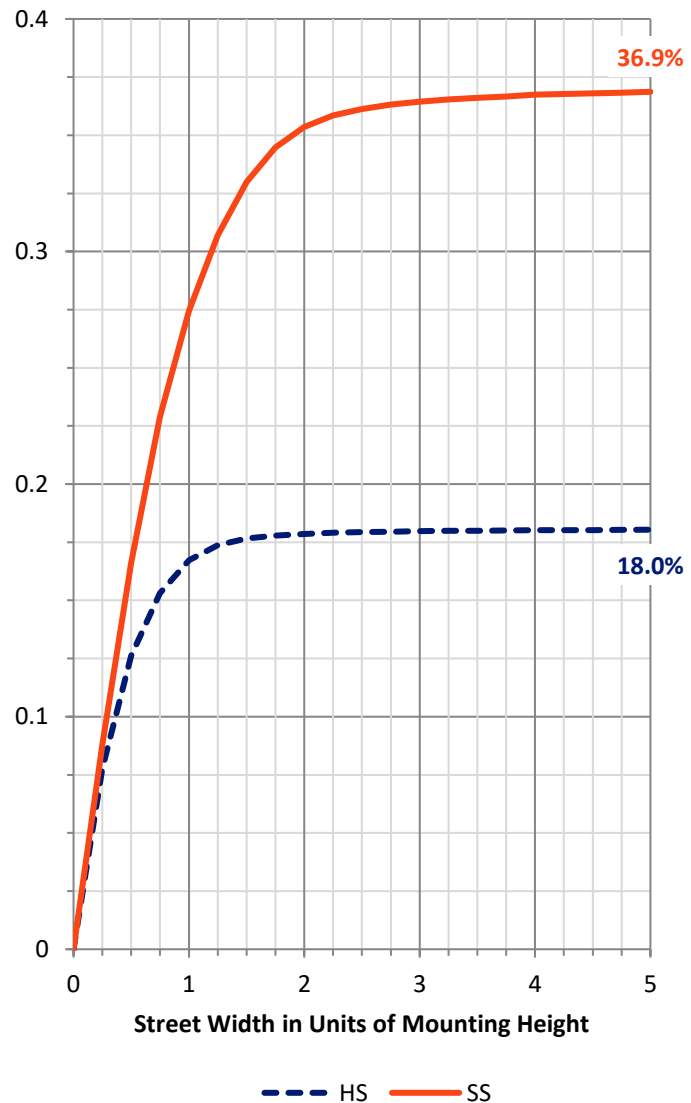
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9089.3	0.0	9089.3
	% Lamp	18.2	0.0	18.2
Street Side	Lumens	18405.7	0.0	18405.7
	% Lamp	36.8	0.0	36.8
Total	Lumens	27495.0	0.0	27495.0
	% Lamp	55.0	0.0	55.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	559.0	2.0	1.1
10°-20°	1663.3	6.0	3.3
20°-30°	2877.8	10.5	5.8
30°-40°	3878.7	14.1	7.8
40°-50°	4780.9	17.4	9.6
50°-60°	5219.5	19.0	10.4
60°-70°	5494.7	20.0	11.0
70°-80°	2925.6	10.6	5.9
80°-90°	95.4	0.3	0.2
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°	27495.0	100.0	55.0
0°-180°	27495.0	100.0	55.0



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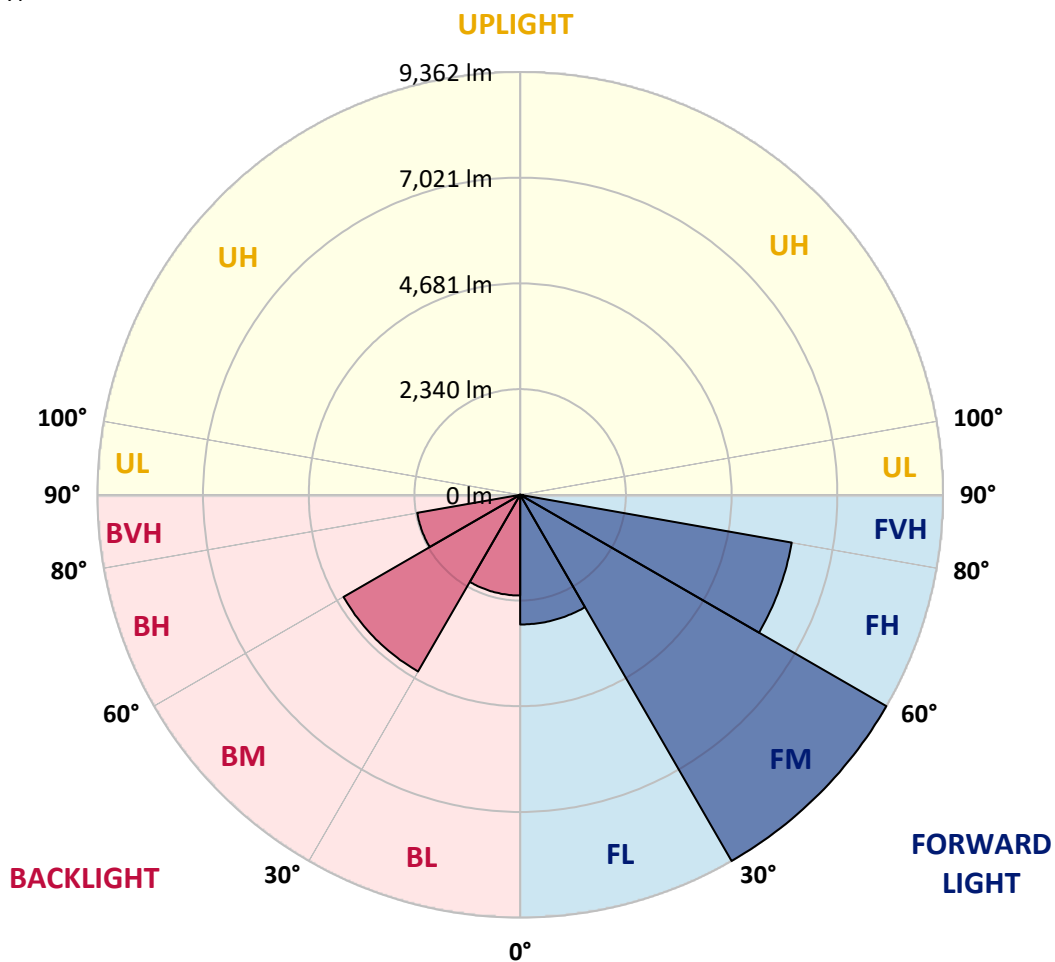
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2871.2	5.7			
FM	(30°-60°)	9361.5	18.7			
FH	(60°-80°)	6105.4	12.2			G3/7500
FVH	(80°-90°)	67.6	0.1			G1/100
BL	(0°-30°)	2228.9	4.5	B3/2500		
BM	(30°-60°)	4517.6	9.0	B3/5000		
BH	(60°-80°)	2315.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	27.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		22505.0	45.0			

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87.7°
0°	5808	5808	5808	5808	5808	5808	5808	5808	5808	5808	5808
2.5°	5951	5877	5895	5849	5868	5886	5886	5877	5868	5858	5840
5°	6007	5970	5932	5951	5970	5970	5979	5979	5960	5942	5951
7.5°	6118	6044	5988	6007	6044	6072	6062	6072	6090	6090	6081
10°	6099	6044	6044	6090	6127	6146	6192	6238	6275	6285	6275
12.5°	6118	6072	6099	6136	6183	6248	6322	6377	6405	6387	6368
15°	6136	6109	6136	6201	6303	6405	6489	6516	6526	6516	6498
17.5°	6062	6044	6081	6164	6350	6489	6581	6655	6720	6739	6711
20°	5988	5979	5997	6136	6359	6591	6730	6859	7036	7100	7091
22.5°	5951	5923	5951	6136	6396	6637	6943	7286	7694	7916	8027
25°	6118	6099	6155	6211	6377	6785	7397	8129	8760	9084	9251
27.5°	6359	6368	6535	6544	6544	7091	8120	9158	9492	9427	9473
30°	6637	6628	6813	6924	6767	7536	8871	9325	9149	8899	8621
32.5°	6934	6906	6952	7100	7008	8092	9001	9001	8685	8343	8083
35°	7212	7156	6989	6832	7323	8361	8648	8565	8472	8704	8843
37.5°	7416	7341	6961	6461	7184	8305	8426	8417	9084	9269	9251
40°	7471	7378	6869	6173	6850	7962	8370	8899	9585	9937	10169
42.5°	7323	7184	6461	5886	6535	7518	8880	9548	10558	11086	11114
45°	6971	6804	5849	5330	6229	7564	9668	10549	11355	11235	11207
47.5°	6433	6275	5284	4811	5812	8129	10039	11290	11772	12291	12569
50°	5858	5738	5126	4533	5803	8528	9770	11058	12171	13005	13070
52.5°	5080	5182	5302	4384	6275	9612	9668	11383	13061	12644	12430
55°	4394	4820	4885	4468	6952	9288	8871	11105	11791	10614	10280
57.5°	3782	4588	4904	4440	7675	8203	7462	9807	11337	11513	11958
60°	3300	4181	4273	4218	7147	7925	7397	10790	14201	13478	13357
62.5°	2614	3179	3115	3800	5413	5905	7666	12236	12236	11624	10984
65°	1872	2197	2197	2892	3736	4978	8546	10827	11031	10836	11058
67.5°	1261	1372	1502	1984	2725	6173	11198	14868	13496	17232	20921
70°	816	881	1038	1409	2095	5932	14182	22599	22738	25853	26956
72.5°	501	779	936	1001	2234	4792	10688	17658	19429	16843	14192
75°	297	547	844	630	2095	3559	3597	5033	4208	3504	2373
77.5°	148	315	315	436	1641	1511	955	630	640	751	677
80°	56	130	463	269	1094	1363	204	250	269	334	297
82.5°	19	46	185	102	232	593	417	111	121	158	111
85°	9	9	9	9	19	37	37	56	56	65	28
87.5°	0	0	0	0	0	9	9	9	28	19	9
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°	5808	5808	5808	5808	5808	5808	5808	5808	5808	5808	5808
2.5°	5849	5830	5821	5803	5775	5747	5747	5710	5654	5701	5784
5°	5942	5914	5868	5821	5766	5710	5664	5571	5534	5543	5654
7.5°	6072	6053	5970	5858	5738	5636	5571	5450	5367	5376	5506
10°	6248	6211	6090	5914	5729	5543	5404	5293	5191	5209	5302
12.5°	6350	6294	6136	5905	5664	5432	5228	5052	5006	4913	5006
15°	6461	6396	6146	5868	5589	5302	5052	4839	4709	4644	4746
17.5°	6674	6563	6238	5840	5450	5126	4820	4588	4403	4338	4468
20°	6998	6878	6396	5895	5386	4913	4588	4320	4134	4079	4190
22.5°	7879	7610	6822	5988	5311	4727	4338	4051	3865	3782	3912
25°	8991	8602	7453	6266	5209	4533	4097	3800	3587	3522	3634
27.5°	9307	8908	7833	6507	5154	4329	3865	3550	3337	3254	3374
30°	8741	8370	7360	6350	5015	4116	3652	3291	3068	2985	3096
32.5°	8176	7796	6850	5821	4746	3884	3411	3040	2809	2707	2818
35°	8584	8148	6720	5386	4375	3661	3179	2790	2549	2429	2540
37.5°	9158	8630	7063	5293	4079	3430	2920	2531	2262	2160	2243
40°	9863	9084	7045	5191	3838	3189	2679	2271	2011	1882	1965
42.5°	10994	10206	7777	5024	3624	2948	2410	2011	1743	1613	1687
45°	11207	10604	8324	5135	3430	2697	2151	1733	1474	1335	1409
47.5°	12273	11235	8027	4894	3207	2438	1882	1455	1205	1057	1112
50°	13061	11911	8102	4811	3003	2160	1585	1177	927	797	834
52.5°	12467	11781	8889	4894	2920	1965	1307	899	686	575	612
55°	10845	10048	7861	4394	3179	2011	1057	658	473	371	389
57.5°	11883	10706	6869	4384	3244	1956	816	445	287	241	241
60°	13320	11420	6452	4023	2901	1520	538	287	213	195	185
62.5°	11151	9557	6896	3921	2475	1492	380	269	213	176	185
65°	11383	11133	8166	3634	1826	881	324	241	195	158	167
67.5°	19225	17575	10104	3198	1418	927	297	232	176	139	148
70°	26094	20708	9705	2252	751	445	241	195	139	130	130
72.5°	15563	10604	4857	1233	528	324	185	158	121	102	111
75°	3383	2373	1270	779	371	260	139	111	93	83	93
77.5°	816	760	519	463	232	213	102	83	74	65	74
80°	371	371	241	250	139	167	74	56	56	56	56
82.5°	167	158	111	130	83	102	56	37	37	37	37
85°	56	56	46	56	46	37	28	9	9	19	28
87.5°	19	19	19	19	9	9	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)