

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: ITL53969

Luminaire Tested: **GSM-XX-250-HPS-XX-3S-FG-XX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL53969
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-250-HPS-XX-3S-FG-XX
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE - TYPE III DISTRIBUTION
Light Source: 250 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 28000 (1 lamp)
Luminaire Lumens: 19233.2 lumens
Efficiency: 68.7%
Efficacy: 76.9 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 250
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

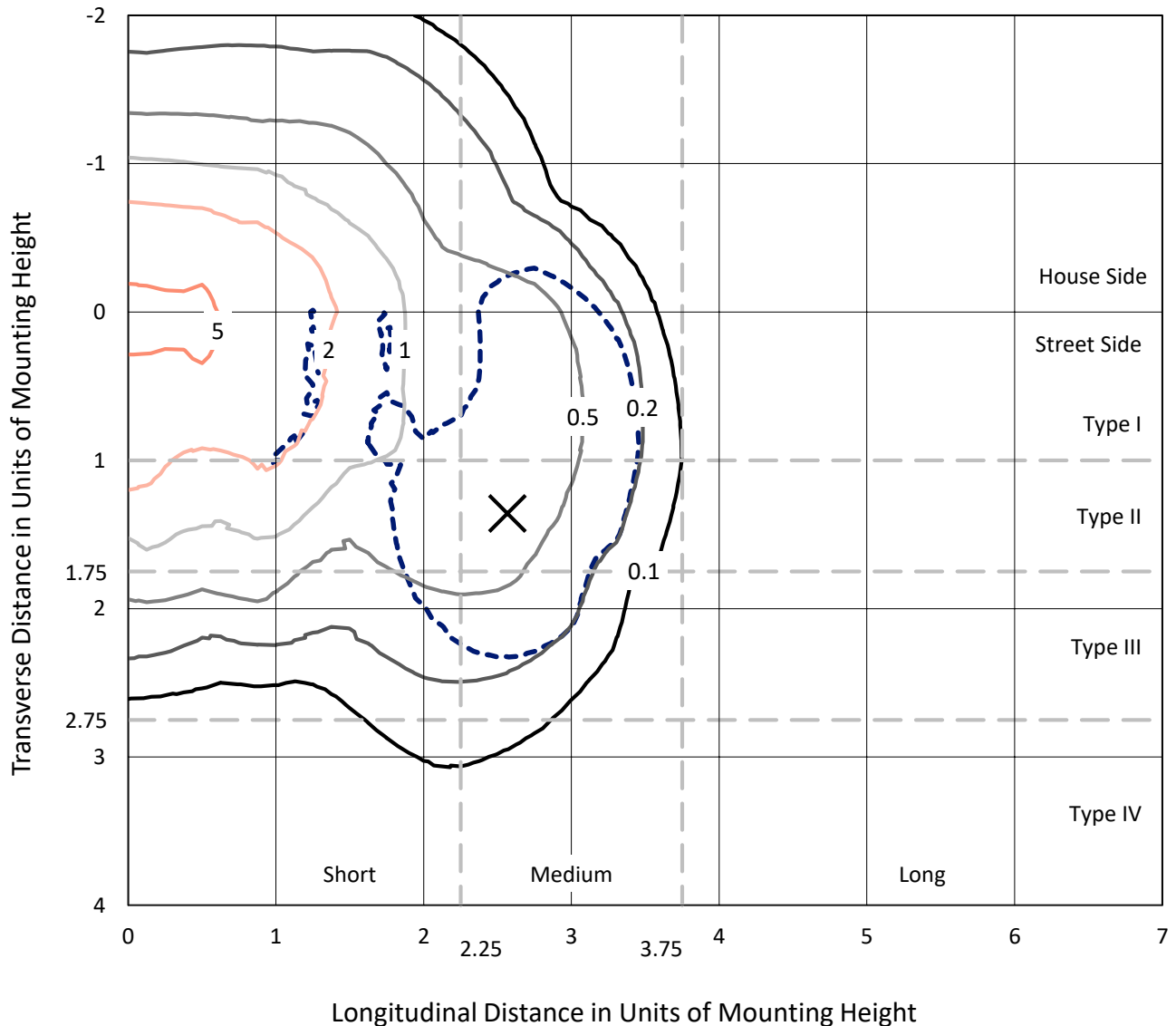


REPORT NUMBER: ITL53969

CATALOG NUMBER: GSM-XX-250-HPS-XX-3S-FG-XX

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

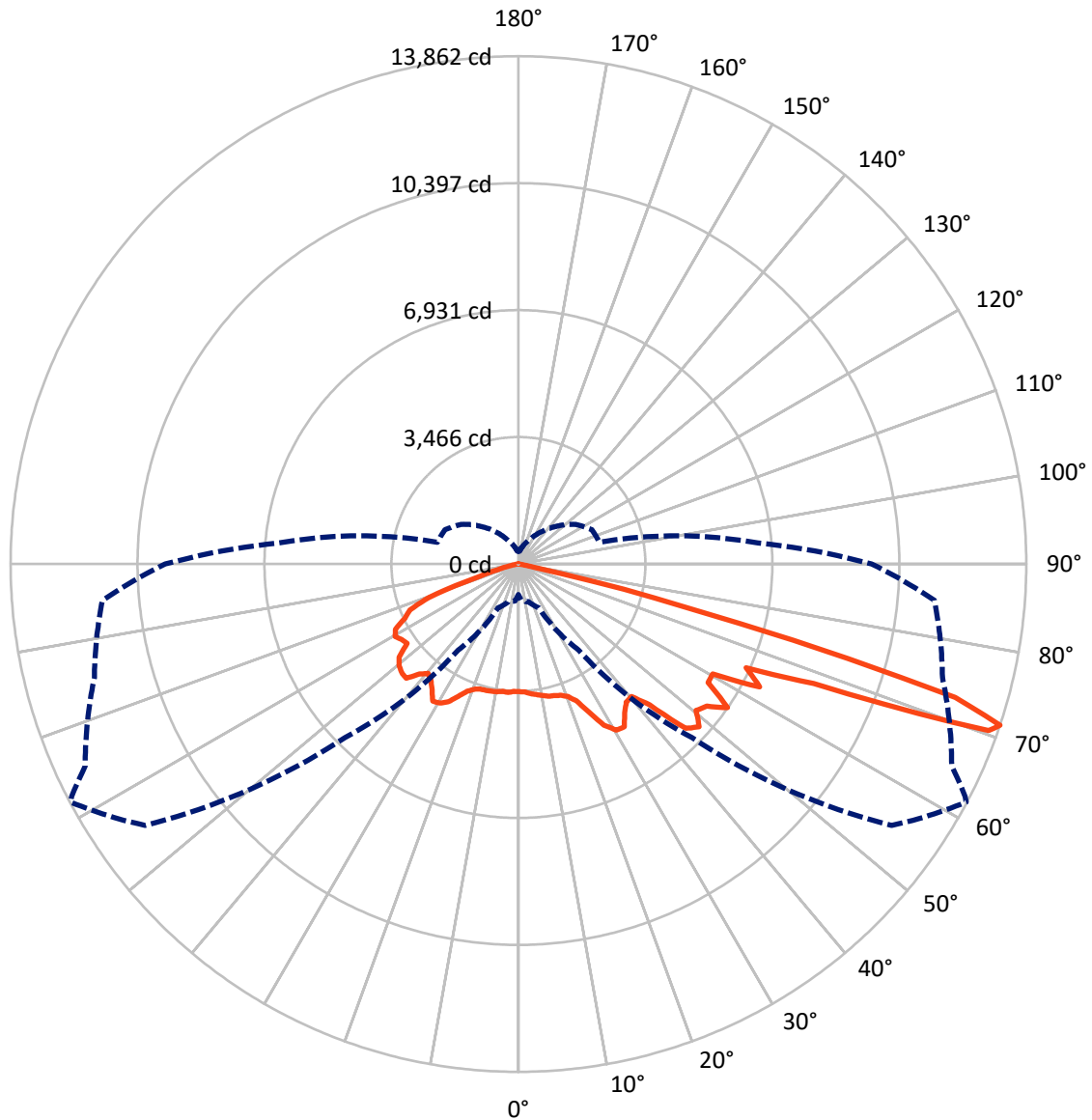


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: ITL53969

CATALOG NUMBER: GSM-XX-250-HPS-XX-3S-FG-XX

Luminous Intensity Polar Plot



— Vertical Plane Through 62.1-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: ITL53969

CATALOG NUMBER: GSM-XX-250-HPS-XX-3S-FG-XX

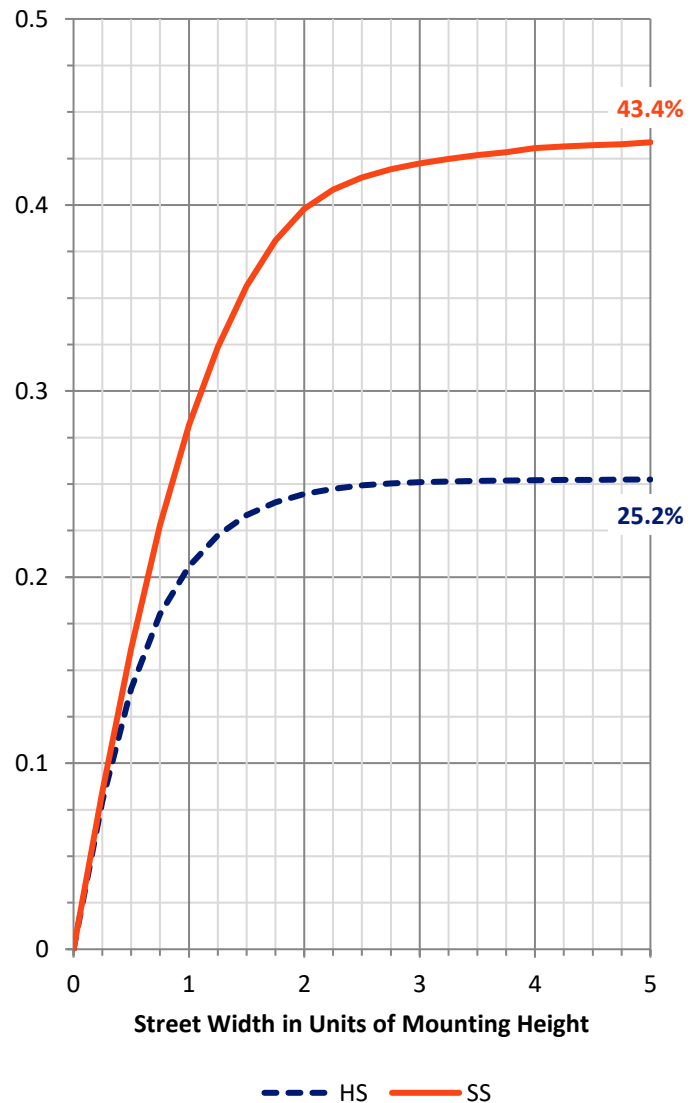
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7102.6	0.0	7102.6
	% Lamp	25.4	0.0	25.4
Street Side	Lumens	12130.6	0.0	12130.6
	% Lamp	43.3	0.0	43.3
Total	Lumens	19233.2	0.0	19233.2
	% Lamp	68.7	0.0	68.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	336.1	1.7	1.2
10°-20°	1009.0	5.2	3.6
20°-30°	1785.3	9.3	6.4
30°-40°	2550.1	13.3	9.1
40°-50°	3325.7	17.3	11.9
50°-60°	3883.7	20.2	13.9
60°-70°	3890.1	20.2	13.9
70°-80°	2380.3	12.4	8.5
80°-90°	72.9	0.4	0.3
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°	19233.2	100.0	68.7
0°-180°	19233.2	100.0	68.7



REPORT NUMBER: ITL53969

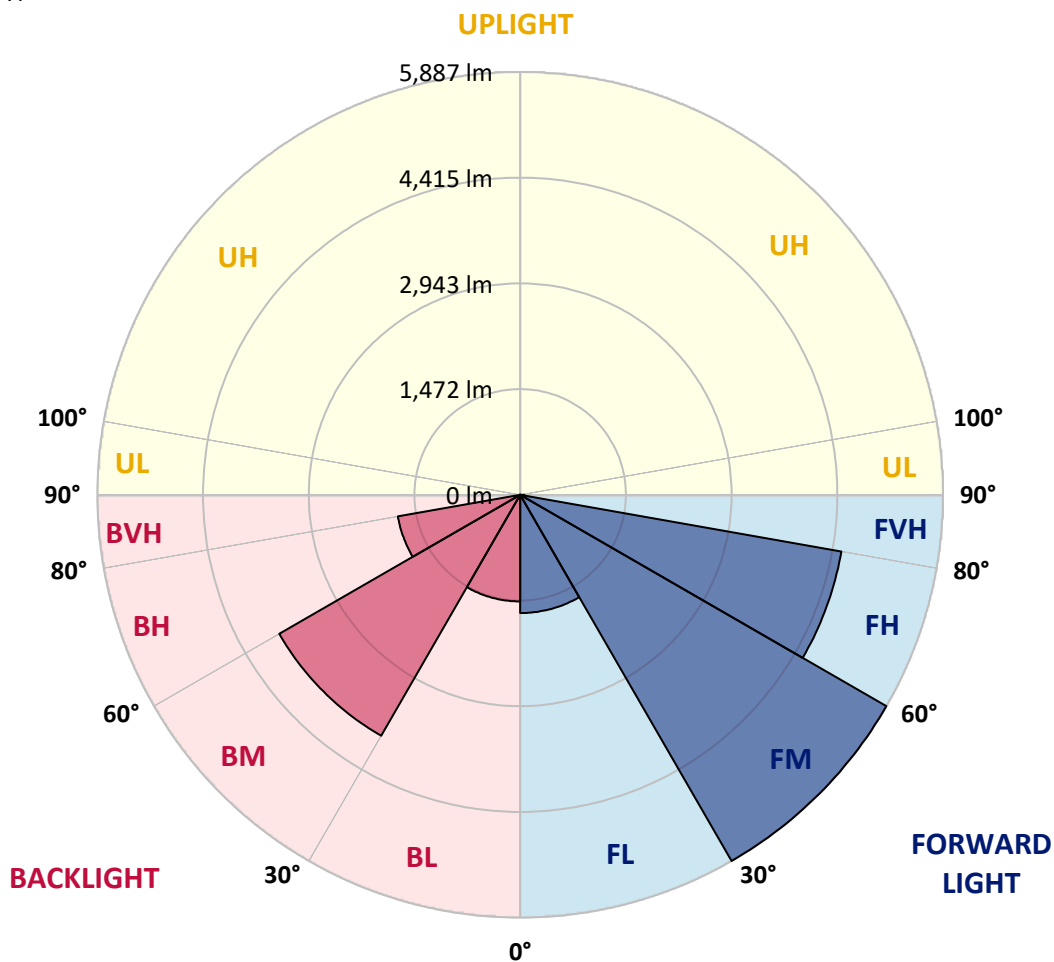
CATALOG NUMBER: GSM-XX-250-HPS-XX-3S-FG-XX

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.7	5.9			
FM (30°-60°)	5886.8	21.0			
FH (60°-80°)	4541.6	16.2			G2/5000
FVH (80°-90°)	56.4	0.2			G1/100
BL (0°-30°)	1484.7	5.3	B3/2500		
BM (30°-60°)	3872.7	13.8	B3/5000		
BH (60°-80°)	1728.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	16.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	8766.8	31.3			

BUG Rating: B3-U0-G3

Type III Medium





REPORT NUMBER: ITL53969

CATALOG NUMBER: GSM-XX-250-HPS-XX-3S-FG-XX

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.1°	65°	75°	85°
0°	3484	3484	3484	3484	3484	3484	3484	3484	3484	3484	3484
2.5°	3506	3506	3523	3497	3480	3489	3497	3497	3506	3506	3514
5°	3557	3565	3565	3557	3565	3574	3591	3557	3582	3574	3565
7.5°	3557	3582	3540	3557	3565	3574	3591	3599	3616	3624	3624
10°	3557	3548	3557	3557	3565	3582	3624	3650	3667	3701	3692
12.5°	3540	3540	3565	3565	3582	3616	3667	3701	3718	3743	3734
15°	3540	3557	3565	3591	3607	3667	3709	3726	3760	3785	3768
17.5°	3540	3548	3565	3591	3658	3709	3760	3768	3785	3845	3861
20°	3506	3540	3548	3599	3675	3734	3794	3861	3904	4031	4073
22.5°	3489	3523	3531	3624	3718	3794	3912	4056	4132	4395	4488
25°	3506	3514	3523	3650	3751	3887	4158	4471	4573	4869	4912
27.5°	3607	3582	3557	3675	3811	4082	4581	4979	4971	5098	5106
30°	3811	3760	3692	3794	3912	4378	4937	5259	5166	5343	5310
32.5°	4099	3980	3887	3853	4056	4708	5081	5301	5301	5157	5005
35°	4302	4200	4107	3904	4243	4886	5233	4988	5022	4895	4886
37.5°	4556	4437	4285	3946	4420	5039	5098	4785	4793	4878	4895
40°	4827	4683	4268	3980	4530	5132	4928	4751	4776	4996	5225
42.5°	5030	4878	4073	3895	4514	4979	5123	5250	5293	5945	6063
45°	5098	4945	3861	3565	4446	5250	6114	6402	6326	6165	5987
47.5°	4962	4852	3726	3184	4395	5826	6775	6639	6419	6156	6326
50°	4742	4683	3650	3176	4293	6216	6504	6283	6402	6537	6961
52.5°	4505	4378	3734	3345	4615	6597	6487	6444	6614	7096	6690
55°	4048	4158	3955	3929	6021	6910	6851	6927	7232	5758	5767
57.5°	3574	4251	3641	3819	6537	5835	5902	6106	6055	5377	5784
60°	3878	4412	3641	4268	6080	6012	5665	6089	6080	7054	7189
62.5°	3303	3565	3345	5208	5183	4903	5547	7393	7858	6334	5784
65°	2405	2540	1965	4293	3506	4056	6648	6825	6758	6199	5064
67.5°	1897	1728	1482	2591	2498	5513	8697	8697	7833	6588	6876
70°	1016	1050	1152	1524	2769	6597	11584	13617	12321	10374	10560
71°	830	1008	1067	1321	2871	6698	12440	13862	13049	11982	11398
72.5°	796	1059	1050	1406	3125	6741	11991	12465	12787	12287	9408
75°	762	1135	1075	1905	3692	5352	6368	4674	5953	5013	2930
77.5°	423	788	686	1423	2710	2134	1059	406	627	406	466
80°	102	271	347	635	1236	881	220	110	152	152	212
82.5°	34	102	135	178	483	483	110	34	68	59	68
85°	0	0	0	0	8	8	8	8	17	17	25
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: ITL53969

CATALOG NUMBER: GSM-XX-250-HPS-XX-3S-FG-XX

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3484	3484	3484	3484	3484	3484	3484	3484	3484	3484	3484
2.5°	3514	3497	3489	3480	3472	3447	3455	3447	3430	3447	3455
5°	3565	3557	3540	3523	3497	3480	3480	3447	3430	3430	3455
7.5°	3607	3591	3565	3514	3472	3447	3421	3404	3379	3379	3404
10°	3684	3675	3624	3557	3480	3430	3379	3345	3336	3328	3320
12.5°	3734	3718	3650	3574	3489	3421	3353	3303	3303	3269	3252
15°	3751	3734	3667	3582	3506	3413	3328	3252	3226	3201	3201
17.5°	3845	3811	3718	3599	3489	3404	3303	3201	3142	3133	3150
20°	4065	4005	3870	3675	3506	3370	3260	3142	3065	3057	3049
22.5°	4437	4378	4132	3828	3548	3362	3209	3082	2989	2972	2998
25°	4861	4776	4514	4107	3633	3353	3176	3023	2913	2888	2913
27.5°	5064	4971	4708	4370	3853	3370	3116	2938	2820	2794	2811
30°	5233	5140	4895	4497	4031	3447	3057	2854	2727	2693	2710
32.5°	4912	4818	4674	4539	4099	3557	3015	2769	2625	2574	2591
35°	4810	4691	4412	4200	4056	3565	2981	2684	2515	2456	2490
37.5°	4801	4674	4403	4048	3777	3523	2955	2583	2396	2337	2371
40°	5174	5030	4488	3997	3565	3328	2854	2447	2261	2193	2219
42.5°	5953	5792	5225	4268	3480	3057	2718	2320	2126	2041	2066
45°	5928	5852	5343	4657	3658	2913	2540	2193	1998	1905	1931
47.5°	6317	6122	5453	4530	3921	2871	2388	2066	1863	1761	1778
50°	7096	6775	5801	4488	3768	3082	2295	1956	1753	1626	1643
52.5°	6580	6393	5724	4370	3548	2955	2202	1846	1617	1490	1507
55°	6427	5945	5242	3921	3269	2778	2092	1728	1490	1346	1355
57.5°	6385	6351	4768	3989	3303	2786	1998	1617	1363	1194	1202
60°	6969	6529	5149	4056	3531	2710	1888	1507	1228	1042	1050
62.5°	5665	5462	4361	3912	3531	2769	1778	1397	1101	889	881
65°	4878	4962	3878	3624	2972	2380	1651	1262	957	720	711
67.5°	7130	6436	3692	3303	3006	2380	1507	1118	813	550	559
70°	9984	7393	2938	2761	2236	1736	1245	889	618	398	423
71°	9637	6563	2286	2210	1888	1448	1059	737	525	347	356
72.5°	6927	4395	1186	1194	1219	982	677	517	364	263	288
75°	1956	1440	525	627	483	406	212	178	135	127	169
77.5°	390	474	271	373	322	246	110	76	59	59	68
80°	195	246	127	195	220	161	68	42	42	25	34
82.5°	85	93	59	68	68	76	25	25	8	8	17
85°	25	25	17	25	17	17	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)