

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: ITL53975

Luminaire Tested: **GSM-XX-250-HPS-XX-4S-FG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL53975
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-4S-FG
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE - TYPE IV DISTRIBUTION
Light Source: 250 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 28000 (1 lamp)
Luminaire Lumens: 21376 lumens
Efficiency: 76.3%
Efficacy: 85.5 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

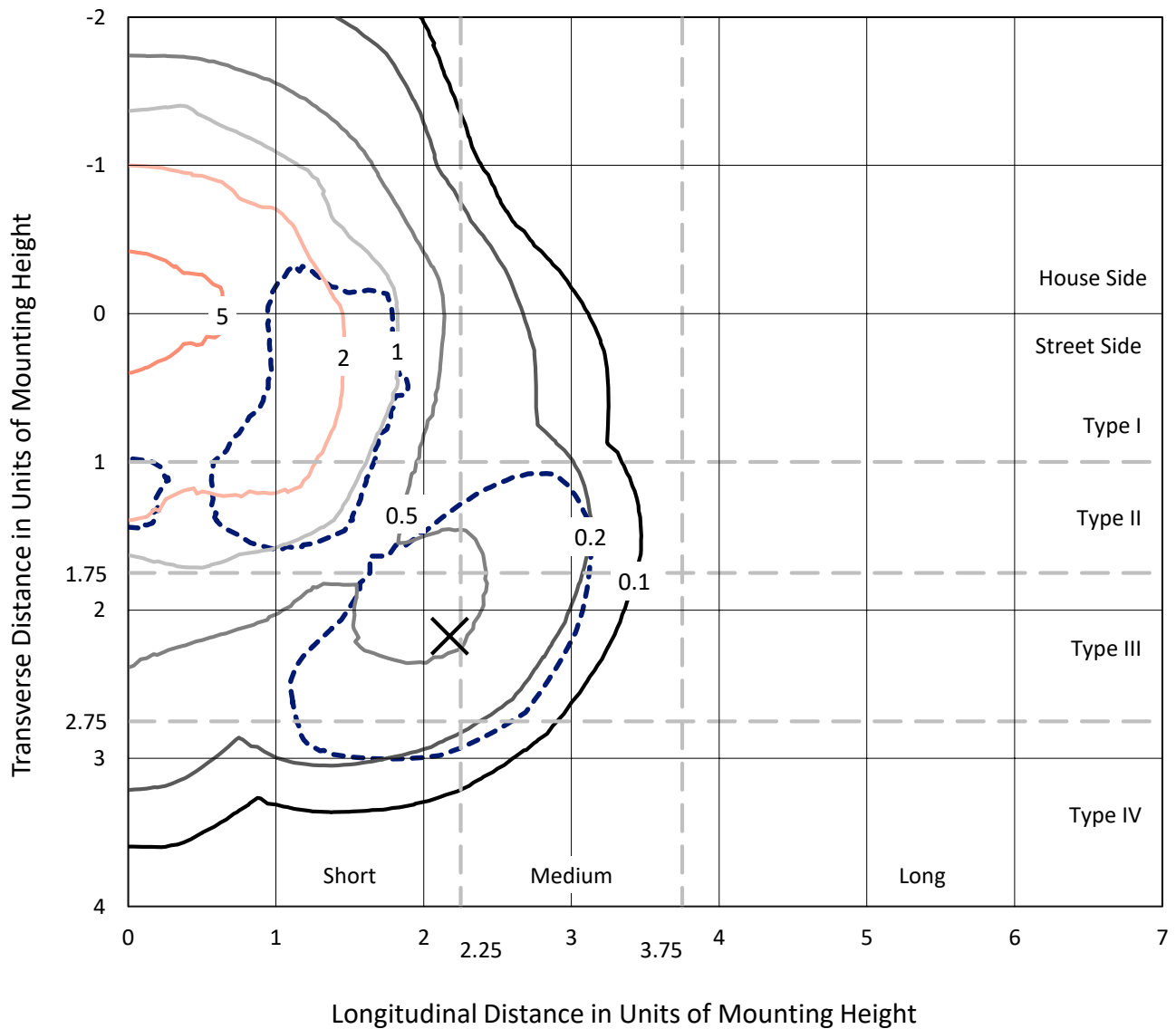
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

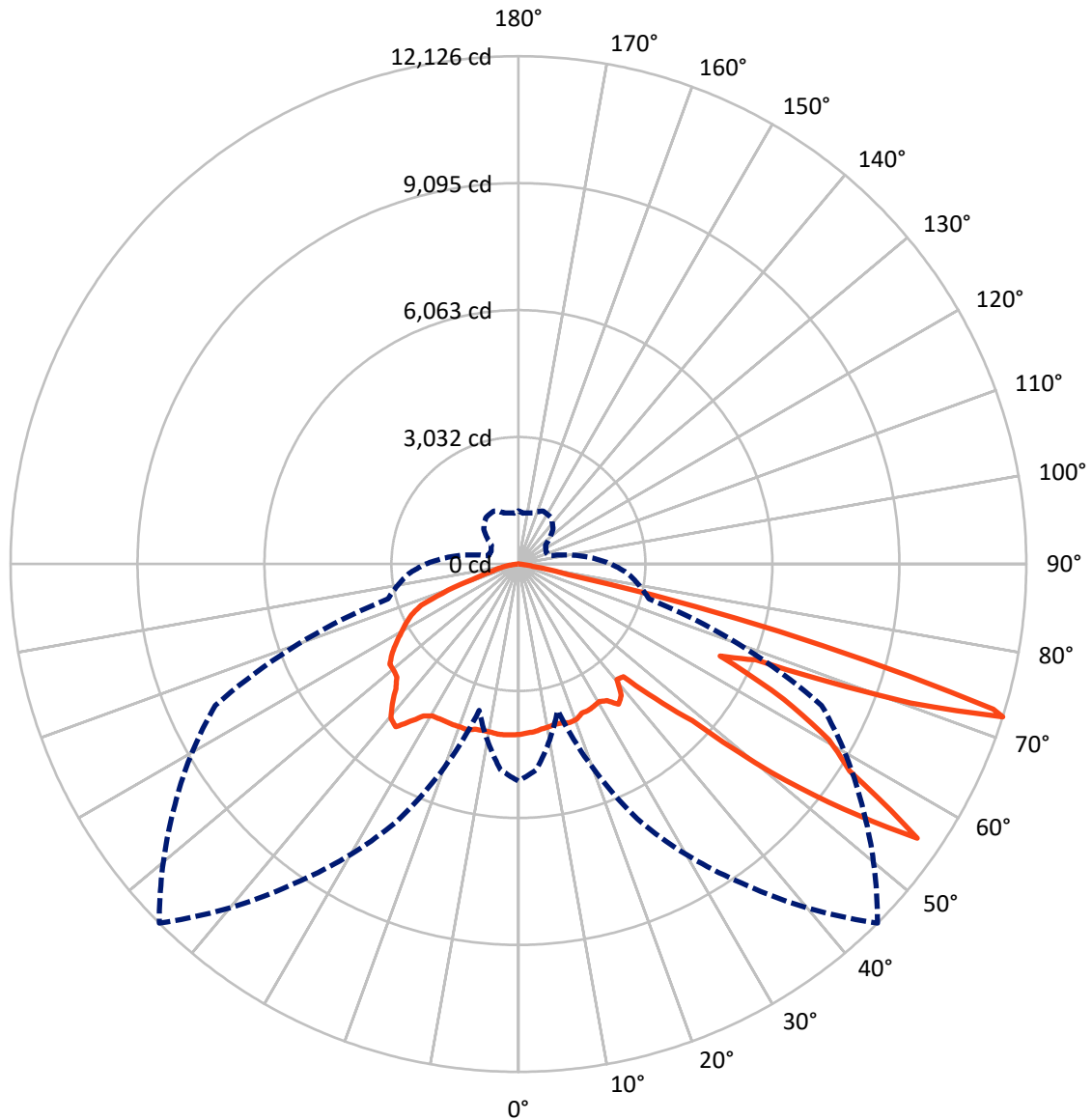
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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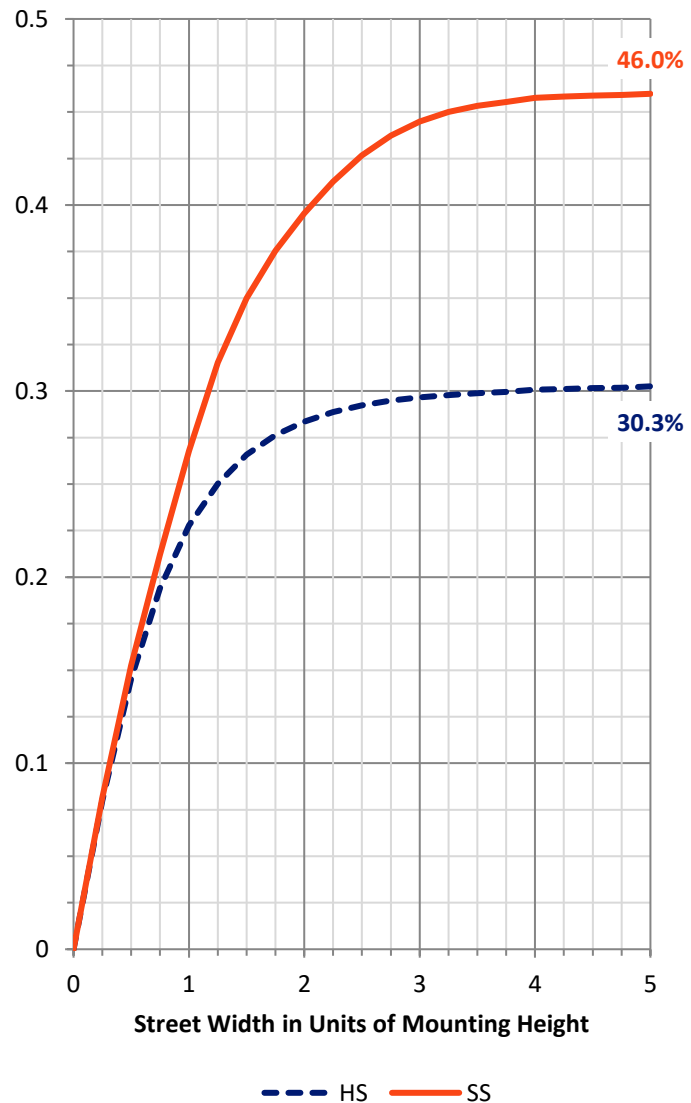
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8512.6	0.0	8512.6
	% Lamp	30.4	0.0	30.4
Street Side	Lumens	12863.4	0.0	12863.4
	% Lamp	45.9	0.0	45.9
Total	Lumens	21376.0	0.0	21376.0
	% Lamp	76.3	0.0	76.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	386.0	1.8	1.4
10°-20°	1145.3	5.4	4.1
20°-30°	1908.0	8.9	6.8
30°-40°	2649.6	12.4	9.5
40°-50°	3815.9	17.9	13.6
50°-60°	5090.4	23.8	18.2
60°-70°	3923.2	18.4	14.0
70°-80°	2345.3	11.0	8.4
80°-90°	112.4	0.5	0.4
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°	21376.0	100.0	76.3
0°-180°	21376.0	100.0	76.3

Coefficient of Utilization



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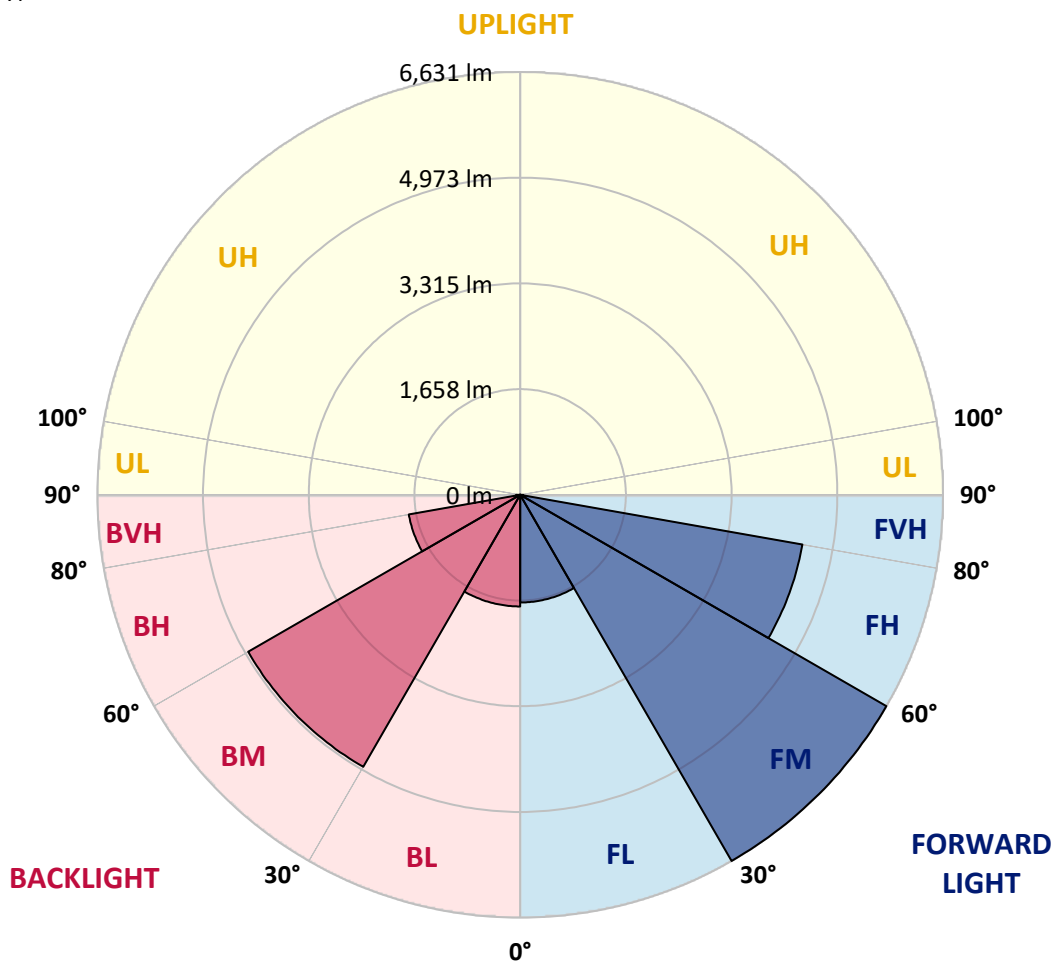
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.1	6.0			
FM (30°-60°)	6631.0	23.7			
FH (60°-80°)	4494.7	16.1			G2/5000
FVH (80°-90°)	49.6	0.2			G1/100
BL (0°-30°)	1751.1	6.3	B3/2500		
BM (30°-60°)	4925.0	17.6	B3/5000		
BH (60°-80°)	1773.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	62.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	6624.0	23.7			

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4069	4069	4069	4069	4069	4069	4069	4069	4069	4069	4069
2.5°	3997	4031	4031	4031	4031	4039	4056	4073	4082	4073	4082
5°	3963	3989	3989	3997	4005	4022	4031	4039	4056	4065	4065
7.5°	3946	3972	3972	3989	3980	3980	3997	4005	4022	4039	4031
10°	3929	3980	3963	3989	3946	3955	3963	3972	4022	4022	4039
12.5°	3895	3963	3938	3921	3929	3921	3955	4039	4124	4166	4158
15°	3861	3929	3921	3878	3887	3938	4048	4073	4065	4090	4099
17.5°	3845	3904	3938	3946	3887	3980	4005	4039	4082	4107	4116
20°	3997	3963	3921	3861	3861	3963	3955	4039	4124	4158	4183
22.5°	3828	3946	3828	3777	3845	3870	3989	4039	4132	4200	4209
25°	3743	3794	3811	3726	3802	3870	3972	4124	4319	4480	4497
27.5°	3641	3718	3692	3624	3709	3845	4031	4412	4666	4835	4861
30°	3709	3624	3582	3624	3701	3811	4370	4759	4971	5199	5242
32.5°	3523	3658	3548	3574	3616	3887	4547	4751	5233	5318	5335
35°	3506	3480	3667	3489	3582	4116	4344	4547	4632	4530	4530
37.5°	3658	3616	3472	3599	3641	3989	3980	4132	4022	4149	4183
40°	3574	3574	3574	3912	3845	3624	3828	3955	4437	4971	5072
42.5°	4319	4217	4437	4801	3794	3675	3836	4412	4979	5360	5428
45°	6250	6122	5208	5064	4514	4581	4429	4776	5852	6410	6410
47.5°	7384	7283	5708	5453	5293	5589	5733	6148	7088	7503	7130
50°	6995	6851	5513	5581	6470	7825	8129	8299	8358	8096	7714
52.5°	6758	6173	4539	5623	7096	9713	10958	9493	8121	7723	7765
55°	6165	6182	5233	6063	7215	11559	10788	9052	7672	7113	6741
57.5°	4657	4903	5072	6021	6419	9323	8841	8214	6868	6495	6427
60°	3845	4370	5428	5581	6698	8519	6859	6309	5911	6377	6334
62.5°	3675	4691	5166	4996	6021	7113	6190	5843	6266	4920	4810
65°	4471	4615	4734	4607	4361	5293	4734	4302	4056	4065	4073
67.5°	5555	5149	4556	4912	4852	6106	4818	3785	3226	3997	3751
70°	5149	4954	4014	6199	7850	9933	8468	5911	3574	3176	2659
72°	5183	4928	3616	6715	9298	12126	10009	7985	3226	2625	2210
72.5°	4979	4810	3430	6580	9171	11855	10069	7748	3049	2532	2134
75°	2744	2905	1694	3370	5343	6419	5724	4344	1982	1880	1533
77.5°	982	1075	593	669	982	1228	1126	1033	601	1067	872
80°	457	457	296	246	305	390	339	313	246	508	449
82.5°	119	144	144	119	127	169	144	135	135	195	203
85°	34	34	42	42	42	59	59	51	42	68	68
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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4069	4069	4069	4069	4069	4069	4069	4069	4069	4069
2.5°	4082	4082	4082	4090	4082	4082	4082	4090	4090	4048
5°	4073	4073	4090	4082	4090	4090	4099	4107	4107	4082
7.5°	4039	4056	4065	4082	4090	4099	4107	4116	4107	4082
10°	4031	4048	4056	4065	4065	4073	4090	4090	4090	4065
12.5°	4166	4175	4099	4065	4065	4065	4073	4073	4073	4048
15°	4107	4124	4175	4183	4073	4056	4048	4056	4065	4048
17.5°	4124	4141	4166	4158	4141	4039	4039	4031	4048	4014
20°	4183	4192	4175	4166	4132	4073	4014	4022	4022	4014
22.5°	4234	4217	4217	4183	4141	4056	3997	4005	4014	3997
25°	4480	4395	4259	4192	4141	4065	4005	3972	3989	3980
27.5°	4844	4801	4556	4268	4149	4048	3980	3946	3963	3963
30°	5250	5030	4912	4530	4166	4056	3946	3921	3921	3929
32.5°	5369	5403	5149	4937	4276	4048	3921	3870	3878	3895
35°	4607	4971	5284	5022	4556	4039	3887	3828	3811	3811
37.5°	4209	4209	4751	4979	4869	4039	3845	3760	3734	3743
40°	5030	4624	4217	4615	4785	4116	3794	3701	3667	3675
42.5°	5335	5055	4666	4175	4505	4243	3743	3624	3607	3624
45°	6182	5470	4937	4276	4175	4302	3684	3574	3531	3540
47.5°	6648	5809	5276	4649	3963	4039	3591	3574	3430	3421
50°	7249	5784	5589	4861	3912	3616	3506	3430	3336	3303
52.5°	7071	5352	5098	5242	3895	3489	3345	3336	3286	3150
55°	5868	4454	3955	4691	3709	3370	3201	3514	3006	2930
57.5°	5970	4420	3641	3853	3489	3201	3108	2896	2735	2727
60°	6029	4505	3624	3582	3252	3049	2828	2710	2524	2540
62.5°	4674	3768	3320	3218	3049	2862	2659	2532	2464	2337
65°	4031	3049	2498	2896	2828	2651	2439	2363	2159	2117
67.5°	3362	2159	1694	2159	2524	2363	2202	2100	1846	1897
70°	2159	1067	940	1160	1795	1829	1914	1728	1507	1541
72°	1736	745	720	788	1169	1355	1397	1262	1219	1270
72.5°	1668	703	694	754	1025	1211	1245	1169	1152	1202
75°	1202	559	567	618	669	737	754	779	821	881
77.5°	703	390	423	483	508	559	559	567	601	644
80°	390	279	296	322	356	398	398	398	423	440
82.5°	169	152	169	195	212	229	229	237	246	271
85°	68	59	59	68	76	76	85	85	85	102
87.5°	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)