

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: ITL54989

Luminaire Tested: **GSM-XX-250-HPS-XX-SL-FG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: ITL54989  
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-SL-FG  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE - SPILL LIGHT ELIMINATOR  
Light Source: 250-WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 28000 (1 lamp)  
Luminaire Lumens: 16074.5 lumens  
Efficiency: 57.4%  
Efficacy: 64.3 lumens/watt  
Luminous Opening: Rectangular (W 1.01' x L: 0.99' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B2 - 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

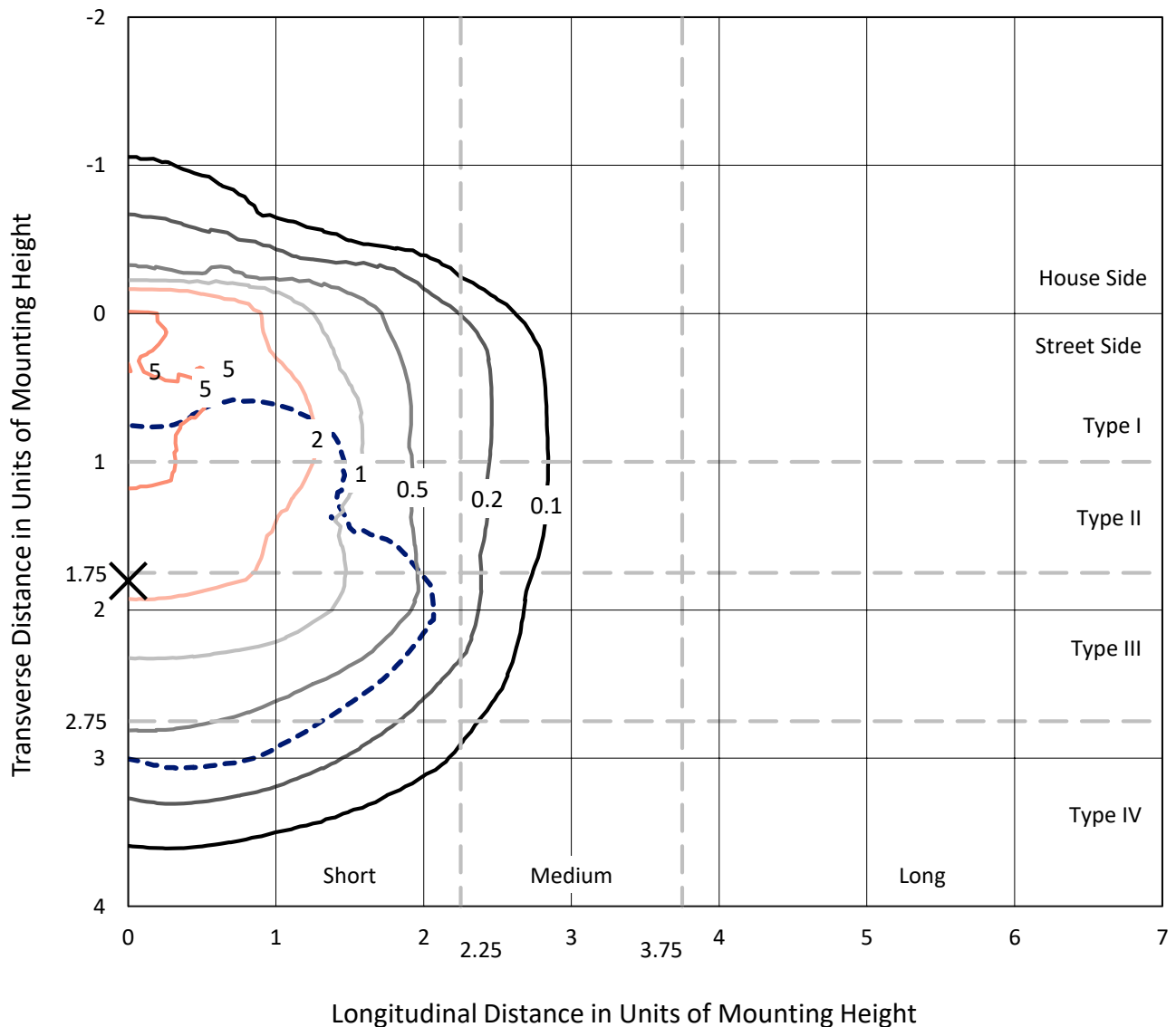


REPORT NUMBER: ITL54989

CATALOG NUMBER: GSM-XX-250-HPS-XX-SL-FG

### Iso-Footcandle Lines of Horizontal Illumination

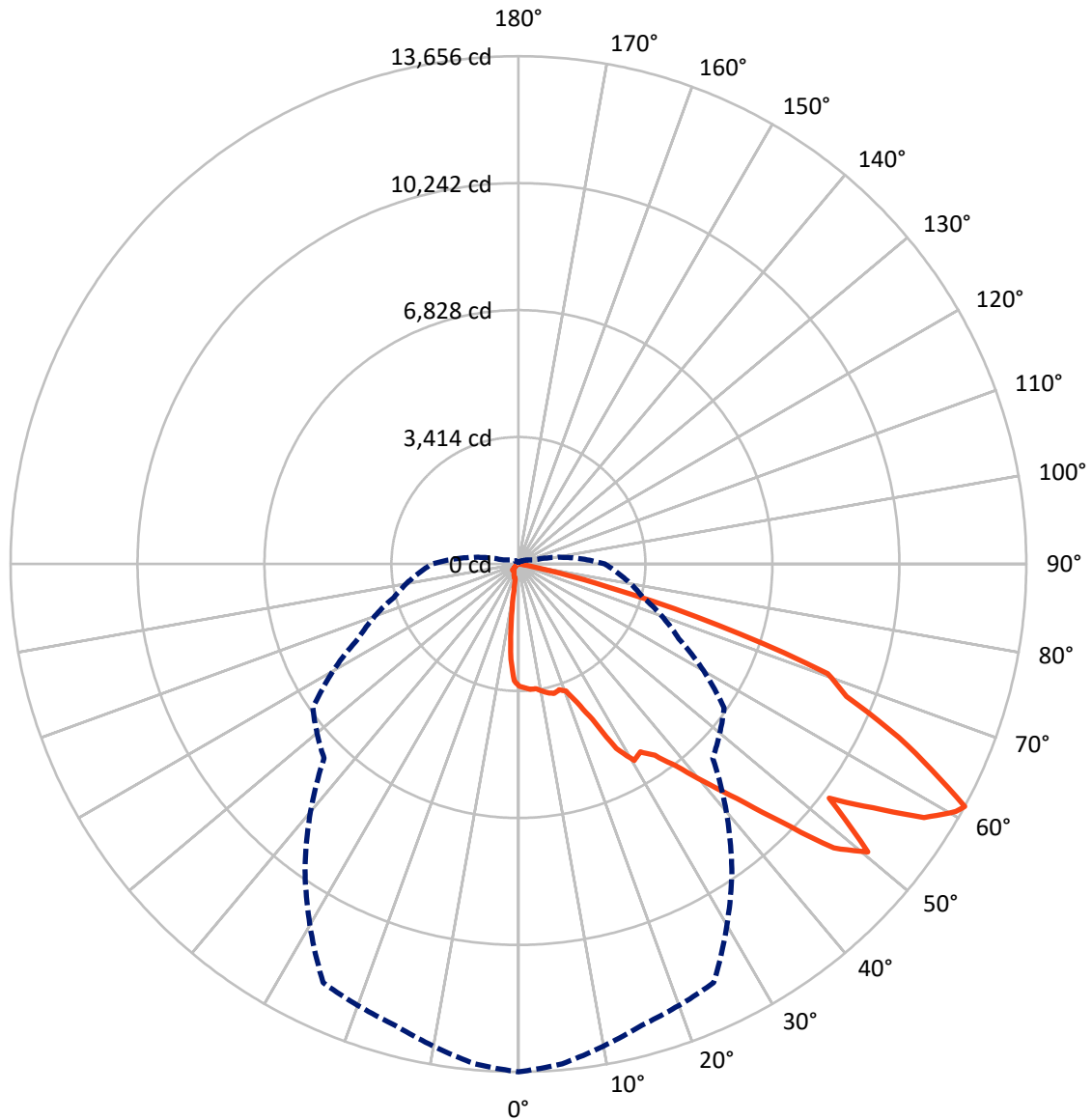
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - Full Cutoff

REPORT NUMBER: ITL54989  
CATALOG NUMBER: GSM-XX-250-HPS-XX-SL-FG

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 61-Deg Vertical

REPORT NUMBER: ITL54989

CATALOG NUMBER: GSM-XX-250-HPS-XX-SL-FG

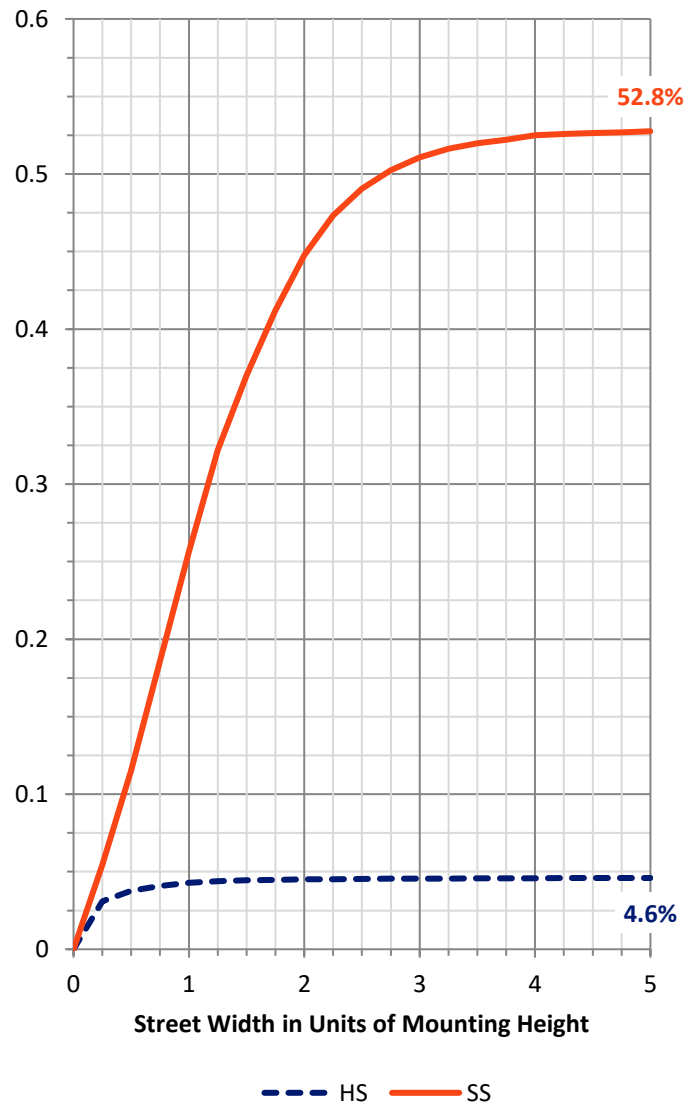
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1298.0	0.0	1298.0
	% Lamp	4.6	0.0	4.6
<b>Street Side</b>	Lumens	14776.5	0.0	14776.5
	% Lamp	52.8	0.0	52.8
<b>Total</b>	Lumens	16074.5	0.0	16074.5
	% Lamp	57.4	0.0	57.4

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	284.4	1.8	1.0
10°-20°	684.3	4.3	2.4
20°-30°	1135.8	7.1	4.1
30°-40°	1872.9	11.7	6.7
40°-50°	2887.9	18.0	10.3
50°-60°	3895.1	24.2	13.9
60°-70°	3884.5	24.2	13.9
70°-80°	1381.7	8.6	4.9
80°-90°	47.8	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°	16074.5	100.0	57.4
0°-180°	16074.5	100.0	57.4



REPORT NUMBER: ITL54989

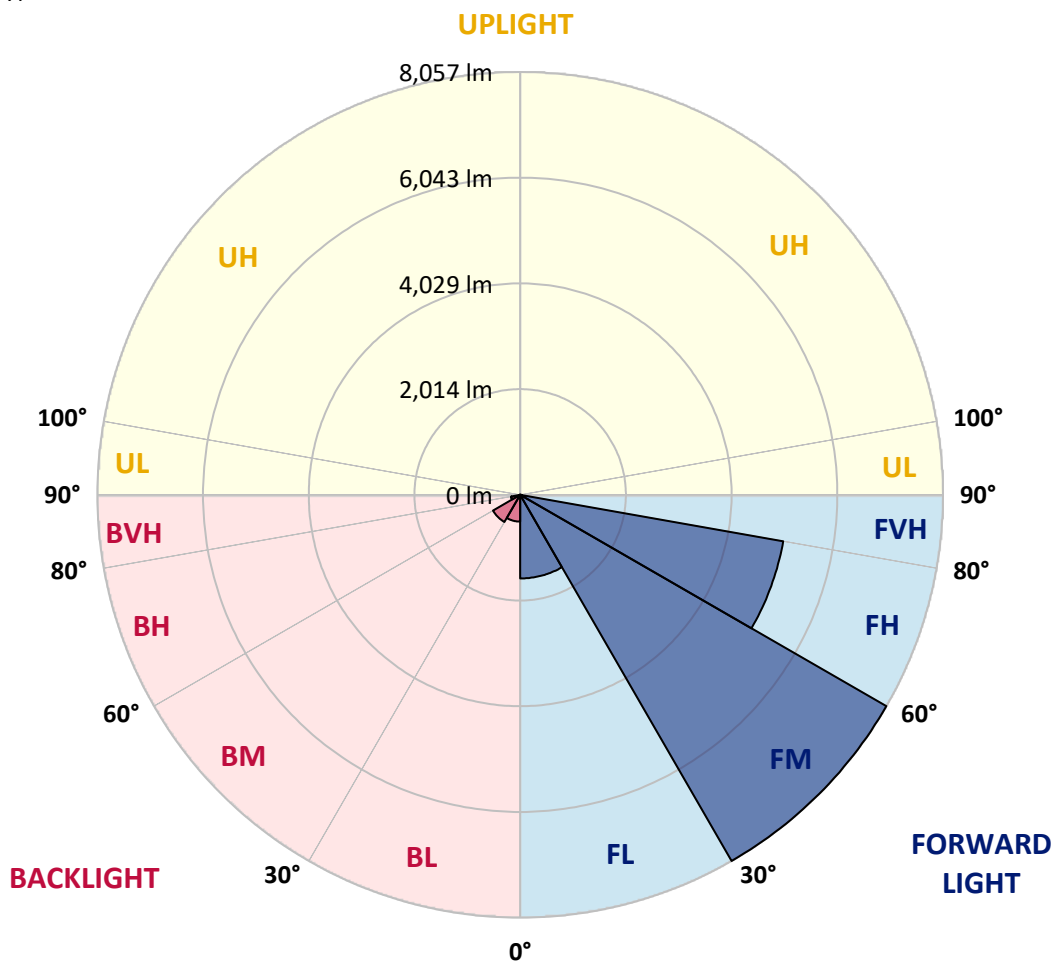
CATALOG NUMBER: GSM-XX-250-HPS-XX-SL-FG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.5	5.7			
FM (30°-60°)	8057.4	28.8			
FH (60°-80°)	5089.5	18.2			G3/7500
FVH (80°-90°)	36.0	0.1			G1/100
BL (0°-30°)	510.9	1.8	B2/1000		
BM (30°-60°)	598.5	2.1	B1/1000		
BH (60°-80°)	176.7	0.6	B1/500		G1/500
BVH (80°-90°)	11.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	11925.5	42.6			

**BUG Rating: B2-U0-G3**

Type IV Short





REPORT NUMBER: ITL54989

CATALOG NUMBER: GSM-XX-250-HPS-XX-SL-FG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3292	3292	3292	3292	3292	3292	3292	3292	3292	3292	3292
2.5°	3332	3323	3332	3332	3332	3332	3341	3341	3341	3367	3332
5°	3384	3384	3375	3367	3367	3358	3349	3341	3375	3332	3315
7.5°	3384	3384	3384	3384	3392	3392	3367	3367	3358	3332	3315
10°	3470	3470	3470	3444	3410	3401	3401	3436	3367	3349	3349
12.5°	3556	3539	3522	3479	3444	3436	3427	3427	3384	3349	3341
15°	3608	3591	3556	3522	3496	3479	3539	3479	3436	3332	3315
17.5°	3556	3565	3600	3574	3556	3565	3626	3591	3513	3341	3280
20°	3643	3608	3608	3608	3600	3677	3729	3729	3574	3375	3298
22.5°	4040	3971	3867	3712	3660	3738	3772	3781	3626	3410	3315
25°	4627	4515	4264	3997	3815	3936	3859	3764	3574	3358	3298
27.5°	5611	5430	5076	4428	4143	4351	4221	3798	3496	3280	3228
30°	6129	6112	5930	5317	4636	4869	4739	4005	3522	3289	3228
32.5°	6025	6034	5999	5948	5533	5266	5266	4264	3626	3367	3280
35°	6319	6250	6077	5974	6224	5792	5533	4402	3660	3401	3323
37.5°	6889	6759	6517	6276	6440	6466	5594	4472	3634	3332	3289
40°	7700	7510	7199	6923	6845	6794	5749	4523	3539	3159	3159
42.5°	8615	8460	8037	7640	7484	7199	6094	4610	3462	2987	2978
45°	9858	9668	9072	8347	8235	8192	6604	4800	3462	2892	2831
47.5°	11412	11153	10393	9323	9064	9262	7130	5128	3505	2849	2676
50°	12171	12025	11645	10644	10134	10117	7545	5551	3651	2805	2581
52.5°	10462	10842	11308	11507	11377	10505	7691	5749	3729	2805	2572
55°	11567	10989	9841	10221	12068	10764	7968	5715	3591	2831	2590
57.5°	12862	12310	11369	10229	10954	9824	8080	5663	3462	2805	2590
60°	13518	13363	12361	11731	9651	8080	7182	5128	3453	2702	2426
61°	13656	13492	12836	12422	10005	7389	6750	4756	3462	2667	2322
62.5°	12724	12966	13043	13397	10523	6750	6181	4213	3401	2616	2167
65°	11239	11835	12448	13561	12137	6932	5576	3815	3185	2538	1942
67.5°	9513	9582	10238	11636	11464	8287	4851	3444	2805	2305	1675
70°	8822	8822	8667	8373	8926	8045	4057	2762	2193	1744	1209
72.5°	5611	6284	6595	6215	5620	5136	2857	2124	1467	950	630
75°	2521	2702	2780	3254	3496	2547	1165	1355	1045	596	397
77.5°	760	1070	1450	1580	1260	984	388	665	509	285	207
80°	207	233	224	199	181	224	216	242	319	155	121
82.5°	104	104	112	95	78	78	86	86	121	78	78
85°	17	35	43	35	43	35	35	43	52	52	43
87.5°	0	0	0	17	17	26	26	35	35	35	35
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: ITL54989

CATALOG NUMBER: GSM-XX-250-HPS-XX-SL-FG

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3292	3292	3292	3292	3292	3292	3292	3292	3292	3292
2.5°	3315	3298	3272	3246	3211	3194	3151	3151	3142	3142
5°	3306	3272	3237	3116	2969	2814	2676	2641	2616	2572
7.5°	3298	3263	3090	2788	2460	2115	1865	1657	1545	1554
10°	3332	3246	2866	2339	1726	1226	993	829	725	725
12.5°	3323	3125	2547	1683	1045	656	492	423	414	414
15°	3298	2969	2080	1114	596	449	406	388	380	397
17.5°	3254	2788	1554	716	466	414	397	371	363	363
20°	3254	2538	1114	509	423	388	363	337	337	345
22.5°	3272	2279	803	449	388	354	328	319	311	311
25°	3254	1977	561	397	363	311	302	293	293	293
27.5°	3194	1675	527	380	328	293	285	259	250	259
30°	3134	1407	518	371	302	276	259	242	233	242
32.5°	3108	1183	527	380	293	242	242	224	216	224
35°	3056	1001	535	388	268	233	224	207	199	207
37.5°	2952	829	527	380	242	216	199	199	190	190
40°	2771	751	501	319	233	207	190	207	216	207
42.5°	2547	673	458	268	224	207	207	207	216	224
45°	2339	630	414	233	224	216	199	207	216	224
47.5°	2132	587	354	207	207	190	173	181	155	155
50°	1994	570	311	207	199	181	164	147	121	121
52.5°	1908	561	293	224	190	164	138	112	112	104
55°	1882	518	268	216	164	138	104	86	78	69
57.5°	1865	466	276	207	147	112	95	78	60	69
60°	1735	414	259	181	112	95	78	60	52	52
61°	1657	414	250	155	112	86	78	60	52	52
62.5°	1467	406	242	129	95	78	78	60	52	52
65°	1148	345	207	112	86	78	78	60	52	52
67.5°	898	285	164	95	78	78	78	60	52	52
70°	578	224	129	78	69	78	69	60	52	52
72.5°	363	173	86	60	52	52	43	43	26	35
75°	233	138	69	43	43	43	43	43	26	35
77.5°	173	95	60	43	43	35	43	35	26	17
80°	121	60	43	35	35	35	26	26	17	17
82.5°	60	43	35	26	26	26	26	26	9	0
85°	43	35	26	26	17	9	9	9	0	0
87.5°	35	35	26	17	9	9	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)