

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: ITL53281

Luminaire Tested: **GMX25SXX5SF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53281
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX25SXX5SF
Description: 250W HPS TYPE V AREA
Light Source: 250-WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 28000 (1 lamp)
Luminaire Lumens: 20171.7 lumens
Efficiency: 72.0%
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.03' x L: 1.01' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

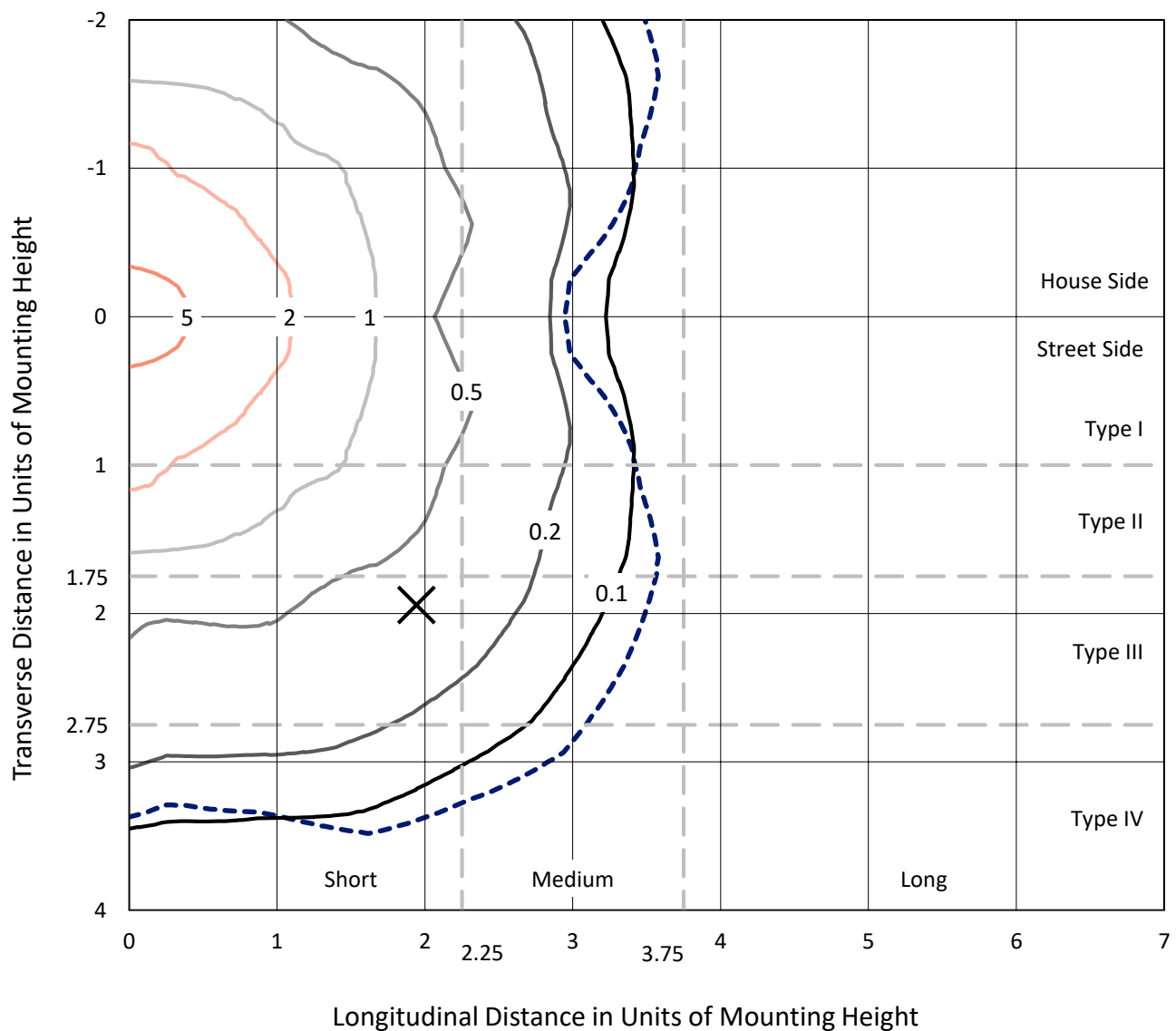
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

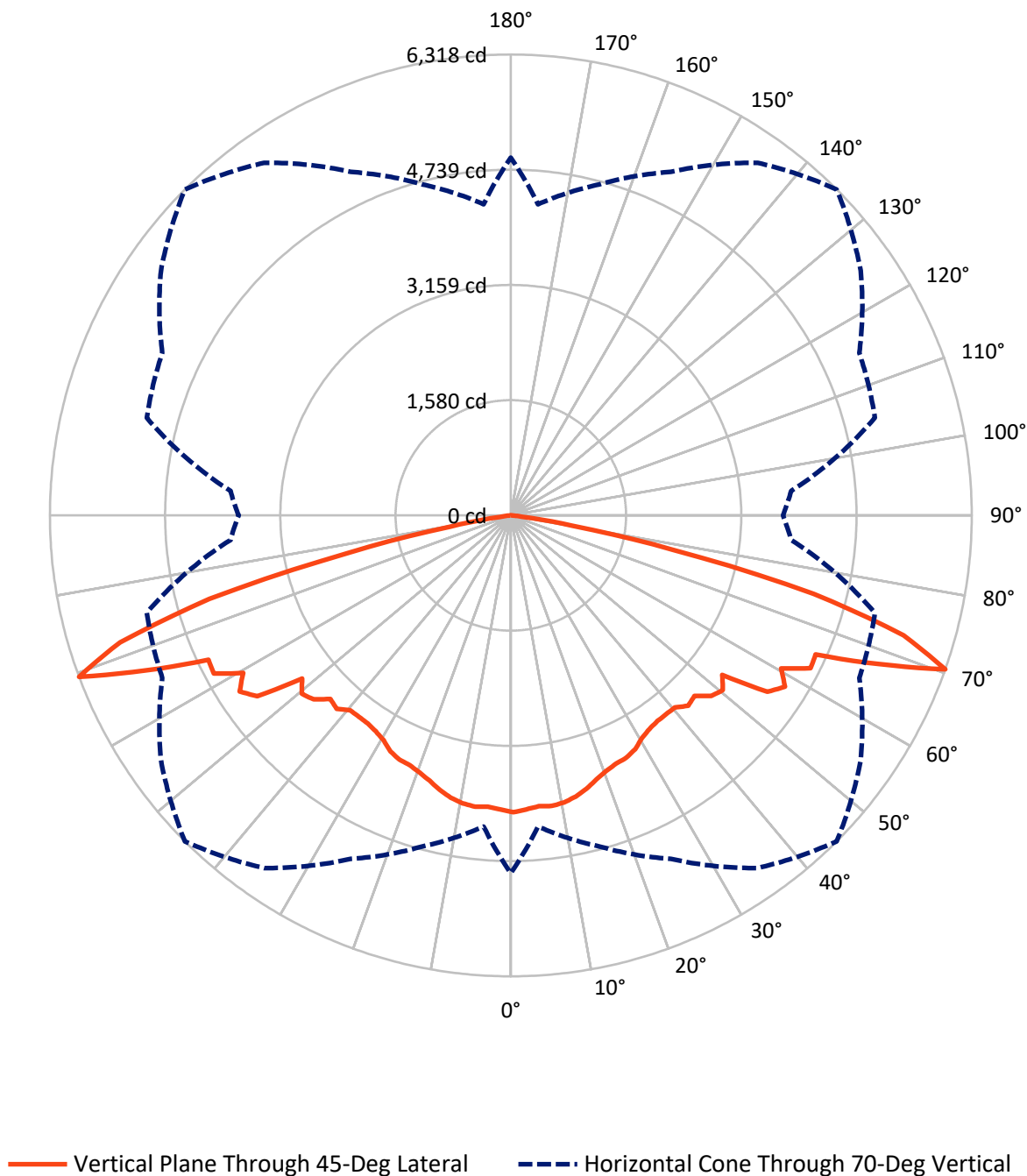
✕ Max cd
 --- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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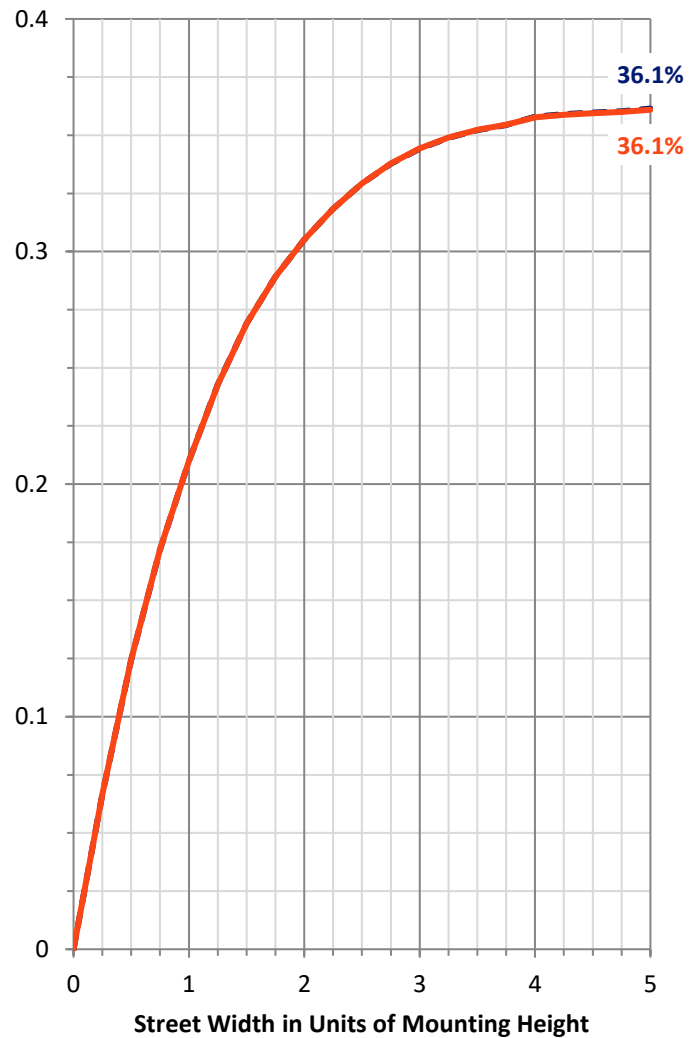
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10085.9	0.0	10085.9
	% Lamp	36.0	0.0	36.0
Street Side	Lumens	10085.9	0.0	10085.9
	% Lamp	36.0	0.0	36.0
Total	Lumens	20171.7	0.0	20171.7
	% Lamp	72.0	0.0	72.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	382.0	1.9	1.4
10°-20°	1095.2	5.4	3.9
20°-30°	1718.2	8.5	6.1
30°-40°	2213.2	11.0	7.9
40°-50°	2885.0	14.3	10.3
50°-60°	3914.7	19.4	14.0
60°-70°	4628.2	22.9	16.5
70°-80°	3187.7	15.8	11.4
80°-90°	147.5	0.7	0.5
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°	20171.7	100.0	72.0
0°-180°	20171.7	100.0	72.0

Coefficient of Utilization



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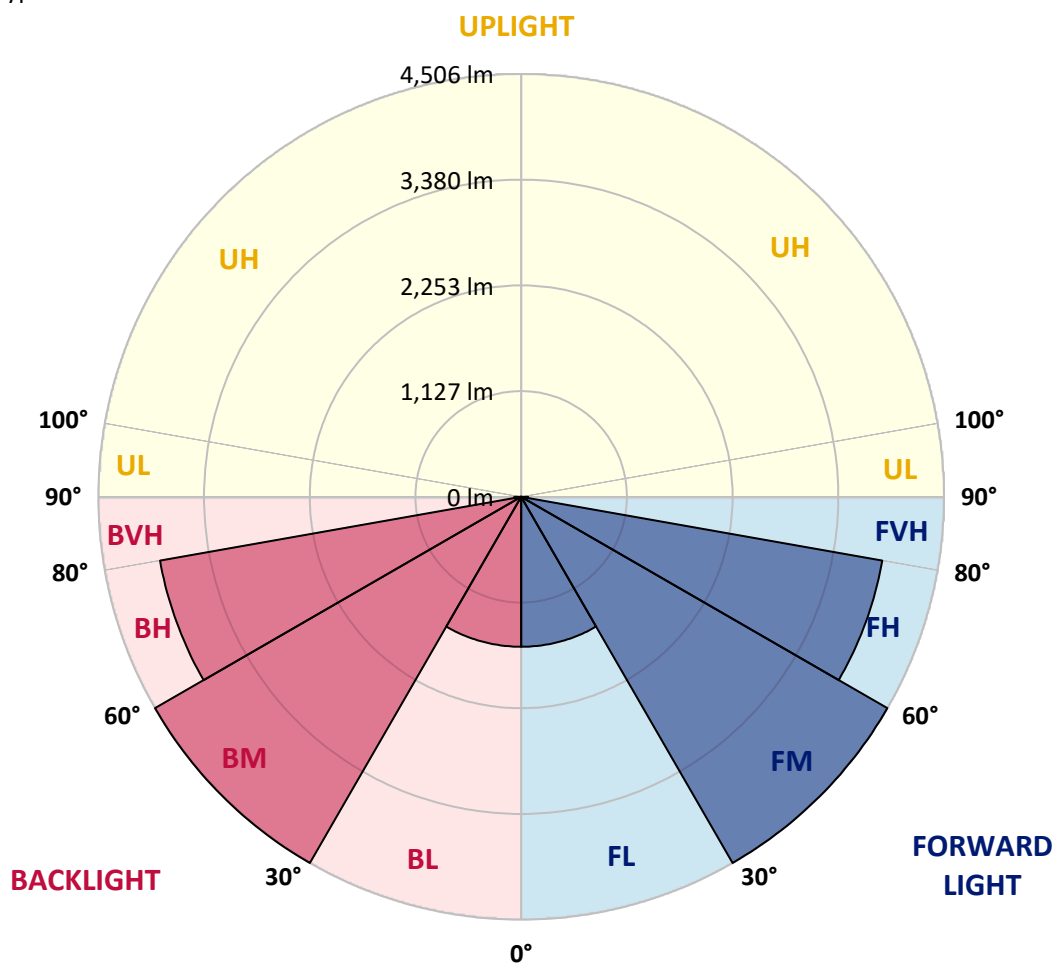
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1597.7	5.7			
FM	(30°-60°)	4506.4	16.1			
FH	(60°-80°)	3908.0	14.0			G2/5000
FVH	(80°-90°)	73.7	0.3			G1/100
BL	(0°-30°)	1597.7	5.7	B3/2500		
BM	(30°-60°)	4506.4	16.1	B3/5000		
BH	(60°-80°)	3908.0	14.0	B4/5000		G2/5000
BVH	(80°-90°)	73.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		7828.3	28.0			

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4068	4068	4068	4068	4068	4068	4068	4068	4068	4068	4068
2.5°	4102	4073	4060	4035	4035	4035	4035	4022	4026	4026	4018
5°	4069	4039	4031	4009	4014	4005	4001	3997	3988	3984	3993
7.5°	4001	3971	3976	3967	3997	4022	4022	4018	4005	3988	3984
10°	3917	3891	3900	3891	3946	4001	4047	4056	4022	3988	3976
12.5°	3841	3811	3811	3819	3870	3955	4039	4064	4022	3967	3959
15°	3765	3739	3735	3739	3790	3887	3984	4047	4018	3955	3950
17.5°	3706	3684	3672	3676	3722	3803	3921	4001	3997	3929	3925
20°	3655	3625	3617	3617	3655	3739	3845	3921	3938	3900	3891
22.5°	3655	3617	3575	3575	3613	3693	3773	3845	3883	3874	3874
25°	3731	3684	3592	3579	3646	3680	3735	3798	3857	3866	3866
27.5°	3849	3815	3676	3617	3625	3630	3676	3744	3811	3836	3841
30°	3883	3828	3638	3495	3495	3541	3621	3693	3752	3786	3790
32.5°	3663	3630	3499	3385	3414	3490	3583	3642	3697	3735	3739
35°	3537	3511	3389	3330	3372	3461	3549	3608	3668	3710	3714
37.5°	3376	3338	3317	3313	3368	3457	3528	3596	3655	3693	3697
40°	3216	3208	3246	3321	3372	3461	3533	3613	3676	3701	3697
42.5°	3292	3279	3288	3364	3457	3566	3549	3642	3773	3769	3748
45°	3714	3710	3630	3613	3490	3528	3596	3680	3862	3946	3917
47.5°	4339	4258	3955	3659	3554	3697	3558	3731	4128	4069	4009
50°	4600	4588	4406	4043	4178	3765	4128	4014	4305	4309	4161
52.5°	4811	4870	4668	4047	3549	3630	3790	3811	4170	4305	4187
55°	4364	4288	4157	3997	4208	4267	3938	4229	4875	4617	4406
57.5°	4212	4242	4377	4583	5001	4431	5503	5309	4951	4854	4440
60°	3798	3655	3993	4267	3950	4258	5204	4571	4680	4524	4212
62.5°	3765	3579	3684	4280	4123	4613	4993	4609	4685	4195	3798
65°	4195	3744	4144	4756	4706	4592	5449	5288	5035	4191	3739
67.5°	4786	4052	4469	4921	4364	5436	5681	5233	5622	4296	3883
70°	4904	4280	4697	5195	5900	6318	5854	5271	5166	3857	3731
72.5°	3756	3444	3959	4891	5415	5630	5343	4305	4144	2638	2482
75°	2119	2017	2401	3368	3706	4288	3912	3575	2612	1654	1604
77.5°	920	857	1106	1844	2060	2271	2325	2136	1574	1144	979
80°	380	338	422	553	692	853	1165	1123	701	435	380
82.5°	152	152	156	173	152	152	127	160	165	131	110
85°	42	42	42	55	42	46	38	46	42	38	34
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°	4068	4068	4068	4068	4068	4068	4068	4068	4068	4068
2.5°	4026	4026	4022	4035	4035	4035	4035	4060	4073	4102
5°	3984	3988	3997	4001	4005	4014	4009	4031	4039	4069
7.5°	3988	4005	4018	4022	4022	3997	3967	3976	3971	4001
10°	3988	4022	4056	4047	4001	3946	3891	3900	3891	3917
12.5°	3967	4022	4064	4039	3955	3870	3819	3811	3811	3841
15°	3955	4018	4047	3984	3887	3790	3739	3735	3739	3765
17.5°	3929	3997	4001	3921	3803	3722	3676	3672	3684	3706
20°	3900	3938	3921	3845	3739	3655	3617	3617	3625	3655
22.5°	3874	3883	3845	3773	3693	3613	3575	3575	3617	3655
25°	3866	3857	3798	3735	3680	3646	3579	3592	3684	3731
27.5°	3836	3811	3744	3676	3630	3625	3617	3676	3815	3849
30°	3786	3752	3693	3621	3541	3495	3495	3638	3828	3883
32.5°	3735	3697	3642	3583	3490	3414	3385	3499	3630	3663
35°	3710	3668	3608	3549	3461	3372	3330	3389	3511	3537
37.5°	3693	3655	3596	3528	3457	3368	3313	3317	3338	3376
40°	3701	3676	3613	3533	3461	3372	3321	3246	3208	3216
42.5°	3769	3773	3642	3549	3566	3457	3364	3288	3279	3292
45°	3946	3862	3680	3596	3528	3490	3613	3630	3710	3714
47.5°	4069	4128	3731	3558	3697	3554	3659	3955	4258	4339
50°	4309	4305	4014	4128	3765	4178	4043	4406	4588	4600
52.5°	4305	4170	3811	3790	3630	3549	4047	4668	4870	4811
55°	4617	4875	4229	3938	4267	4208	3997	4157	4288	4364
57.5°	4854	4951	5309	5503	4431	5001	4583	4377	4242	4212
60°	4524	4680	4571	5204	4258	3950	4267	3993	3655	3798
62.5°	4195	4685	4609	4993	4613	4123	4280	3684	3579	3765
65°	4191	5035	5288	5449	4592	4706	4756	4144	3744	4195
67.5°	4296	5622	5233	5681	5436	4364	4921	4469	4052	4786
70°	3857	5166	5271	5854	6318	5900	5195	4697	4280	4904
72.5°	2638	4144	4305	5343	5630	5415	4891	3959	3444	3756
75°	1654	2612	3575	3912	4288	3706	3368	2401	2017	2119
77.5°	1144	1574	2136	2325	2271	2060	1844	1106	857	920
80°	435	701	1123	1165	853	692	553	422	338	380
82.5°	131	165	160	127	152	152	173	156	152	152
85°	38	42	46	38	46	42	55	42	42	42
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)