

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: STREETWORKS

Report Number: P285750

Luminaire Tested: **USSL-XL-C047-D-U-T2-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T2-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26262.9 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 176
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

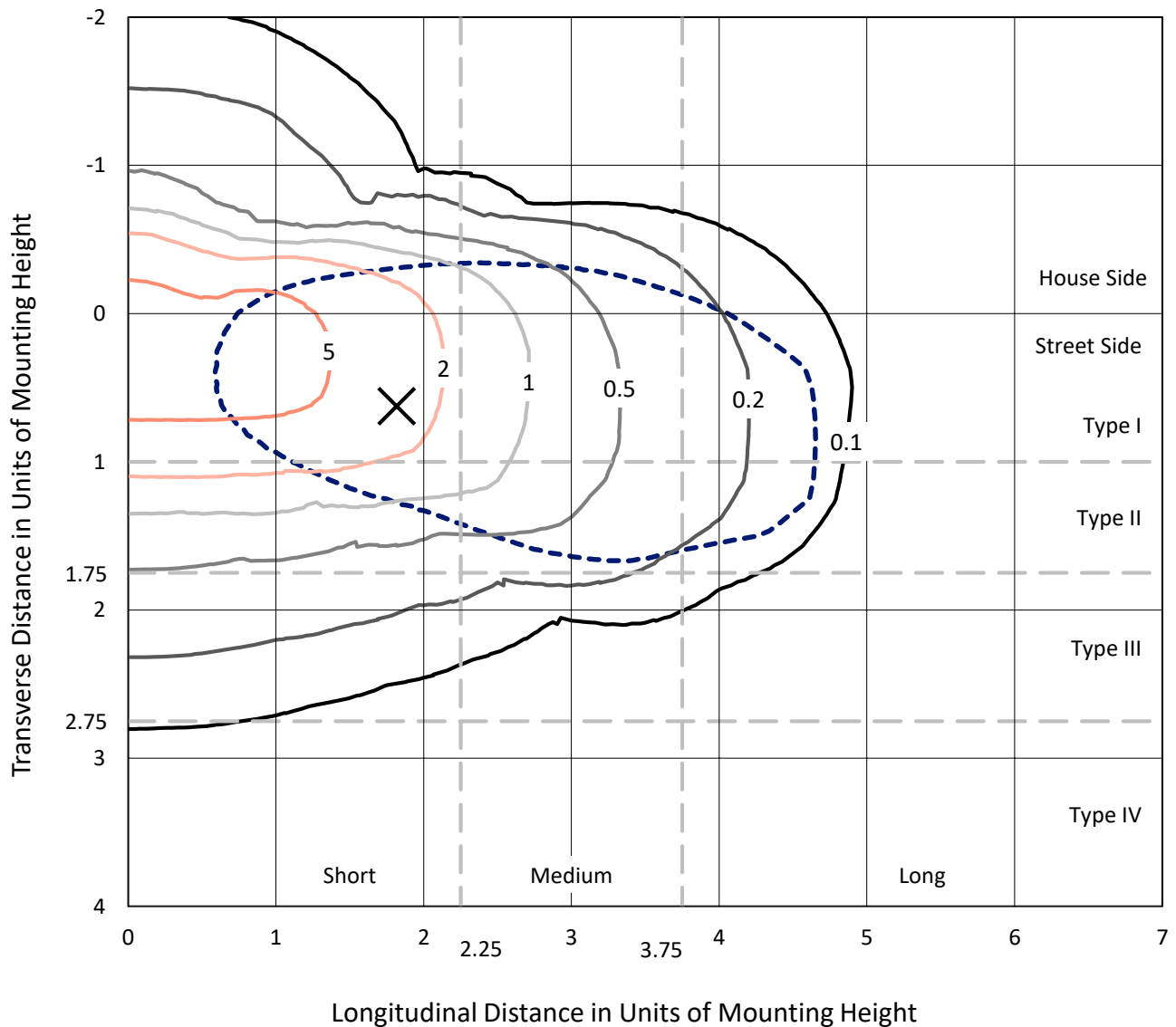


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

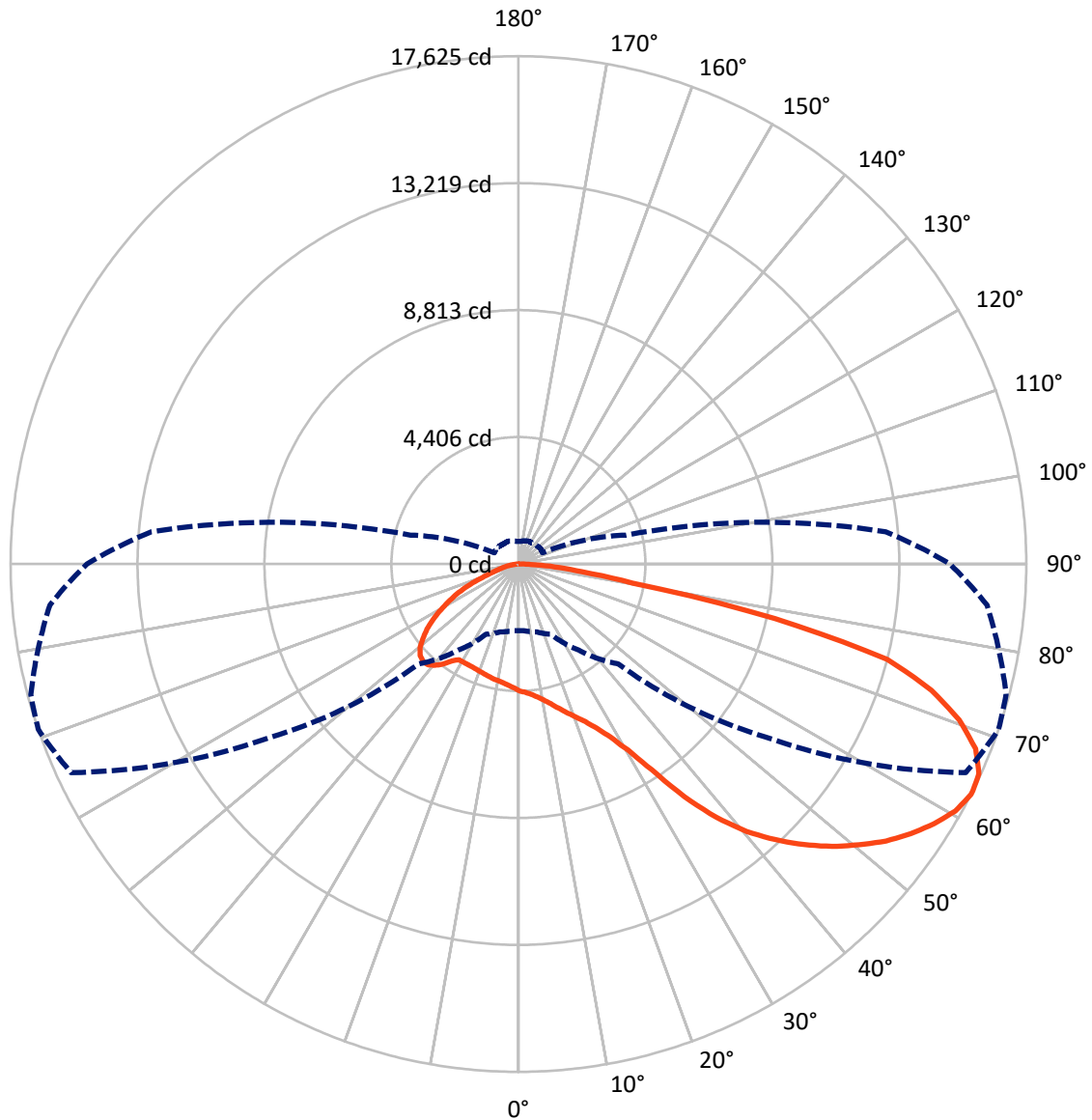


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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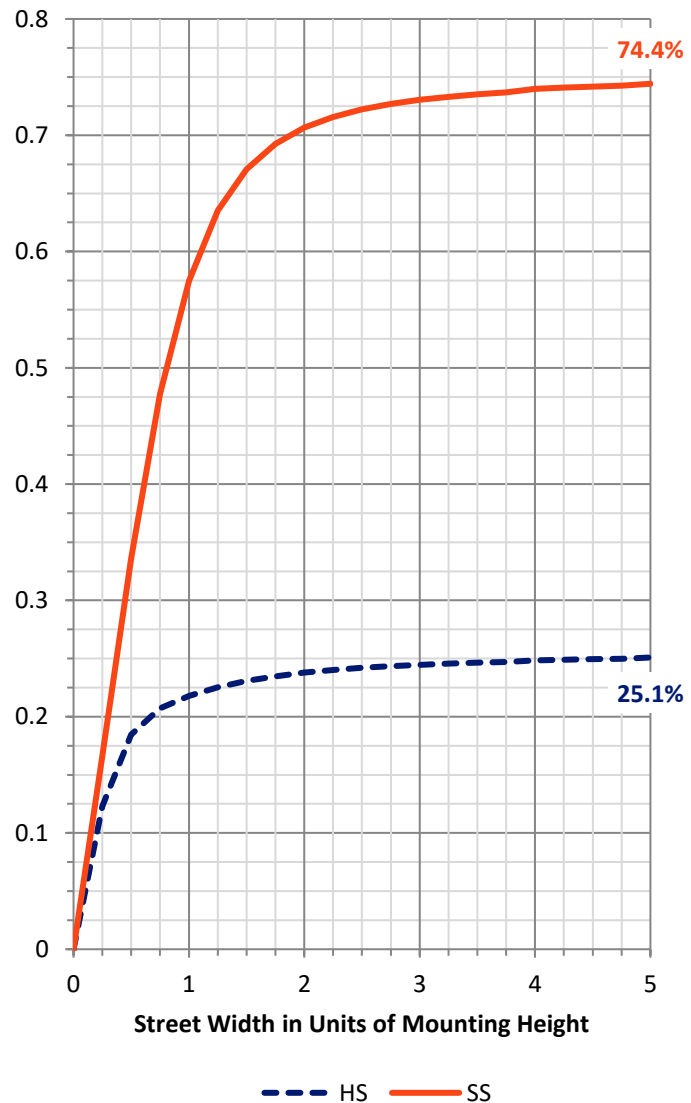
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6706.8	0.0	6706.8
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	19556.1	0.0	19556.1
	% Fixture	74.5	0.0	74.5
Total	Lumens	26262.9	0.0	26262.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	1.6
10°-20°	1298.3	4.9
20°-30°	2200.9	8.4
30°-40°	3317.2	12.6
40°-50°	4557.1	17.4
50°-60°	5298.1	20.2
60°-70°	5227.7	19.9
70°-80°	3342.7	12.7
80°-90°	596.7	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26262.9	100.0
0°-180°	26262.9	100.0



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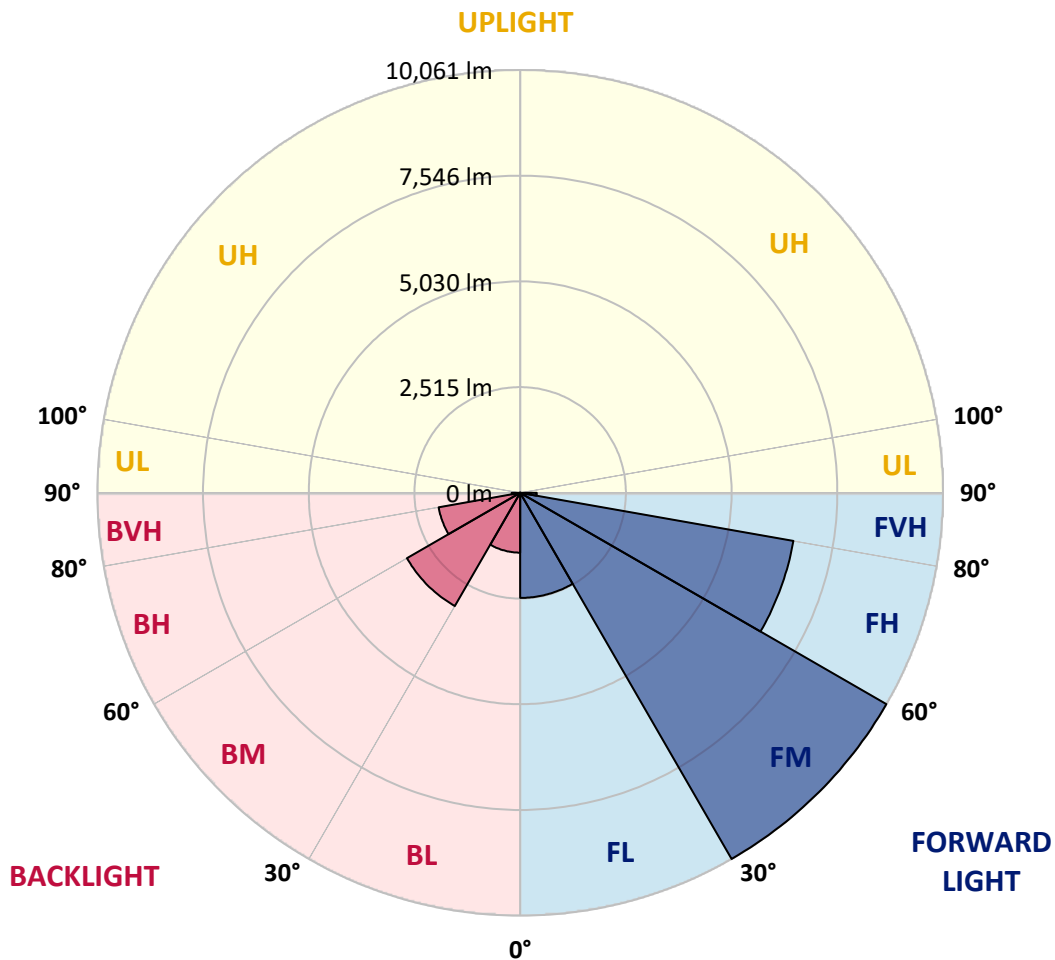
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2499.6	9.5			
FM	(30°-60°)	10060.8	38.3			
FH	(60°-80°)	6601.4	25.1			G3/7500
FVH	(80°-90°)	394.3	1.5			G3/500
BL	(0°-30°)	1423.8	5.4	B3/2500		
BM	(30°-60°)	3111.5	11.8	B3/5000		
BH	(60°-80°)	1969.1	7.5	B3/2500		G3/2500
BVH	(80°-90°)	202.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4403	4403	4403	4403	4403	4403	4403	4403	4403	4403	4403
2.5°	4694	4685	4674	4655	4633	4607	4580	4519	4456	4436	4393
5°	4952	4935	4921	4903	4861	4808	4737	4637	4539	4508	4419
7.5°	5180	5161	5136	5112	5066	4998	4902	4775	4657	4603	4458
10°	5383	5365	5352	5325	5288	5206	5092	4933	4796	4721	4520
12.5°	5608	5593	5566	5535	5486	5407	5293	5120	4974	4883	4615
15°	5837	5827	5779	5761	5706	5615	5514	5336	5187	5074	4751
17.5°	6040	6033	6003	5982	5937	5835	5731	5568	5416	5272	4902
20°	6170	6180	6174	6170	6167	6083	5980	5812	5659	5516	5064
22.5°	6291	6295	6311	6348	6401	6364	6253	6098	5942	5771	5274
25°	6329	6332	6394	6506	6655	6671	6580	6476	6306	6138	5562
27.5°	6360	6368	6446	6642	6904	6980	6947	6913	6793	6617	5949
30°	6351	6353	6482	6734	7102	7307	7357	7521	7491	7371	6597
32.5°	6186	6171	6358	6736	7257	7635	7866	8333	8510	8542	7893
35°	5850	5850	6130	6658	7369	7959	8446	9321	9918	9934	9125
37.5°	5570	5588	5902	6512	7421	8288	9111	10529	11159	11105	10154
40°	5291	5313	5635	6313	7390	8572	9756	11681	12205	12081	11031
42.5°	4982	4999	5301	6030	7283	8779	10449	12664	13081	12930	11831
45°	4673	4702	4974	5650	7074	8903	11043	13556	13894	13720	12559
47.5°	4218	4330	4647	5275	6695	8894	11570	14357	14644	14459	13215
50°	3293	3359	4058	4935	6195	8715	11986	15072	15318	15154	13878
52.5°	2991	3009	3235	4518	5641	8361	12294	15733	15973	15785	14478
55°	2836	2846	2957	3694	5171	7709	12434	16344	16525	16313	14986
57.5°	2625	2656	2811	3149	4690	6787	12253	16824	17005	16775	15472
60°	2469	2488	2621	2883	4133	5709	11627	17171	17415	17203	15923
62.5°	2315	2326	2438	2690	3654	4907	10458	17131	17625	17519	16323
63°	2283	2293	2405	2655	3583	4743	10212	17081	17625	17551	16373
65°	2141	2153	2264	2492	3286	4331	9114	16770	17562	17597	16444
67.5°	1930	1950	2042	2241	2840	3829	7485	16445	17110	17185	16051
70°	1681	1685	1796	1963	2394	3257	5770	15459	16227	16260	15132
72.5°	1416	1427	1527	1668	1986	2697	4125	13630	14993	15179	13593
75°	1236	1245	1329	1428	1649	2126	2759	9939	13218	13425	11758
77.5°	1035	1041	1129	1197	1340	1604	1905	5244	9104	10206	9186
80°	737	738	826	879	971	986	1211	2791	4006	5177	6071
82.5°	160	230	346	435	487	410	596	1529	2213	2642	3291
85°	69	95	183	201	134	148	242	815	1265	1506	1694
87.5°	13	17	47	63	39	41	49	261	443	520	580
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°	4403	4403	4403	4403	4403	4403	4403	4403	4403	4403	4403
2.5°	4367	4355	4315	4288	4271	4249	4221	4184	4173	4147	4168
5°	4370	4338	4254	4193	4138	4090	4034	3981	3961	3926	3940
7.5°	4384	4330	4200	4107	4025	3960	3882	3817	3794	3754	3761
10°	4421	4337	4158	4045	3932	3837	3746	3657	3617	3582	3599
12.5°	4486	4363	4139	3994	3844	3728	3595	3481	3425	3380	3395
15°	4584	4413	4117	3921	3740	3589	3426	3282	3219	3184	3201
17.5°	4684	4486	4104	3832	3615	3419	3262	3126	3011	2985	2995
20°	4802	4561	4114	3738	3468	3236	3050	2959	2810	2758	2761
22.5°	4958	4678	4123	3646	3293	3034	2817	2727	2584	2492	2496
25°	5182	4823	4144	3561	3121	2812	2561	2411	2322	2205	2206
27.5°	5489	5022	4186	3481	2938	2557	2250	2082	2004	1927	1917
30°	6013	5351	4248	3393	2721	2249	1922	1775	1709	1646	1639
32.5°	7119	6150	4334	3282	2487	1899	1632	1516	1423	1361	1370
35°	8254	7151	4698	3150	2223	1593	1414	1270	1151	1103	1106
37.5°	9226	8058	5245	3007	1931	1396	1195	1056	961	937	967
40°	10035	8803	5684	2856	1624	1230	974	898	837	830	857
42.5°	10800	9476	6053	2682	1338	1016	809	827	818	817	821
45°	11495	10100	6259	2423	1136	832	764	832	847	845	834
47.5°	12128	10670	6399	2048	962	780	789	835	863	868	856
50°	12785	11227	6421	1594	893	821	811	805	856	855	856
52.5°	13372	11705	6181	1239	929	864	829	794	823	824	804
55°	13814	12097	5770	1086	959	900	881	811	793	781	788
57.5°	14270	12447	5212	1017	968	908	927	815	788	733	729
60°	14709	12730	4551	971	957	904	898	846	794	712	684
62.5°	14976	12792	3875	926	936	898	866	869	833	788	782
63°	15007	12771	3746	915	931	897	866	871	833	806	807
65°	14968	12527	3240	868	913	881	853	828	766	783	803
67.5°	14530	11729	2491	792	873	855	814	752	696	685	697
70°	13347	10422	1765	675	801	822	804	711	655	645	669
72.5°	11705	9049	1212	540	671	765	760	685	635	606	618
75°	9853	7299	847	455	517	689	721	663	625	598	594
77.5°	7586	5513	666	389	427	558	663	658	705	832	804
80°	5168	3666	480	292	340	391	571	679	892	524	514
82.5°	3004	2154	300	194	203	266	358	717	597	236	298
85°	1451	938	150	134	93	100	166	668	423	105	21
87.5°	463	228	16	12	14	20	79	408	249	90	13
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)