

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: P509845

Luminaire Tested: **VERD-M-CA3-150-740-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-740-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 940mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22129.1 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

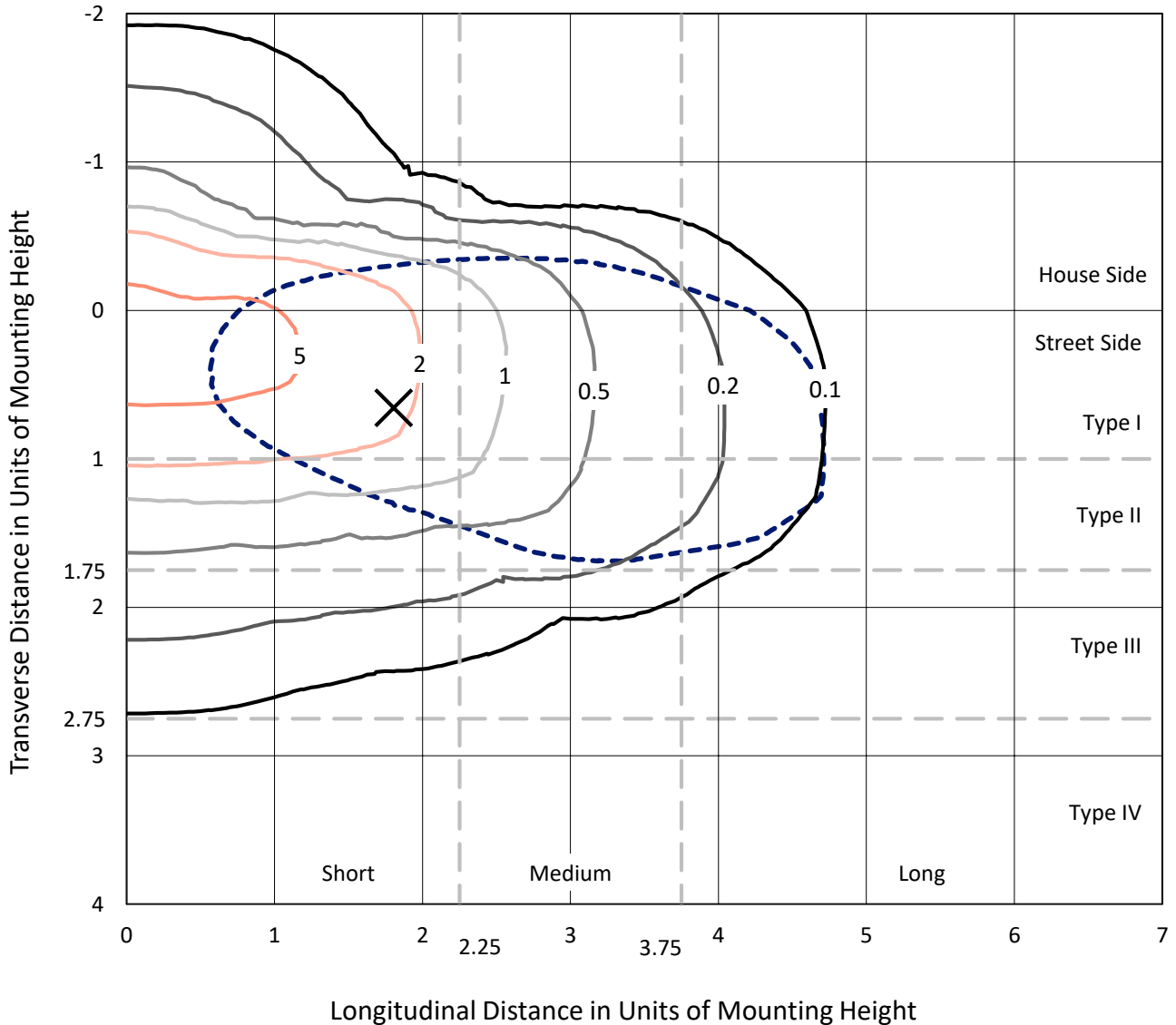
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

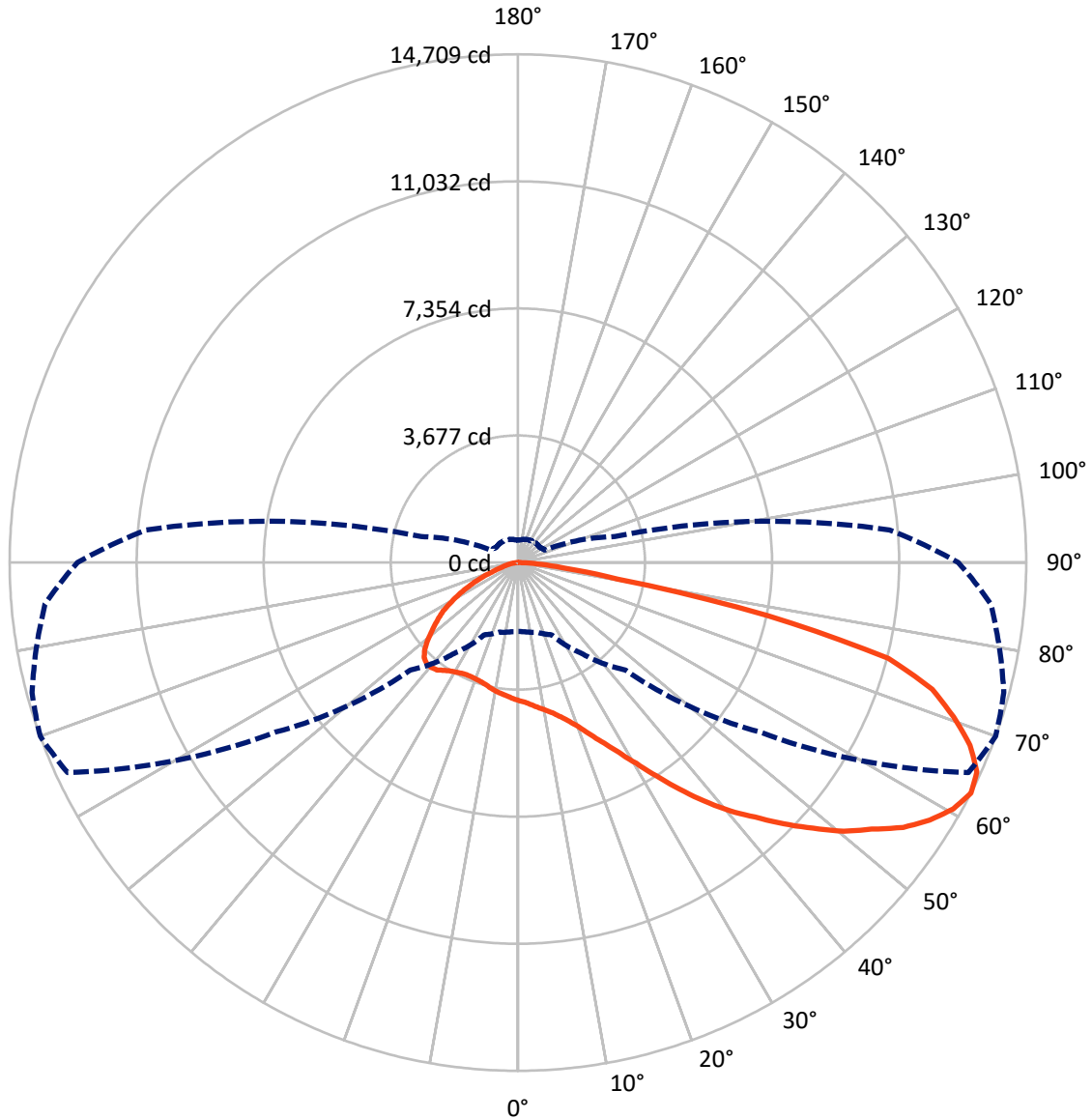
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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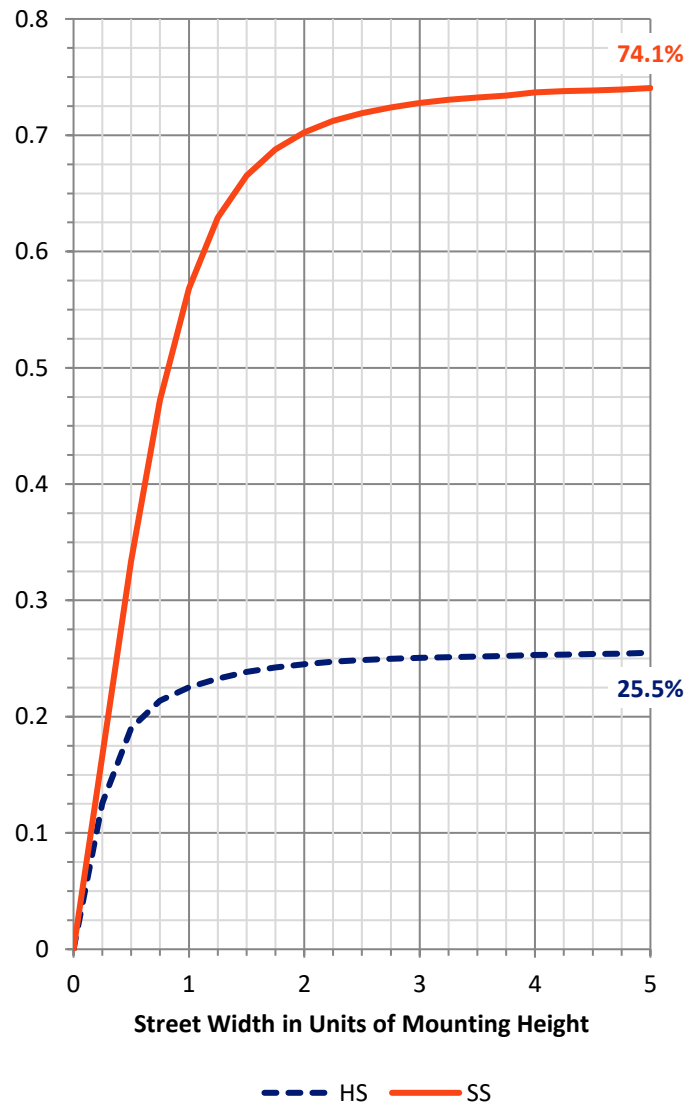
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5729.3	0.0	5729.3
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	16399.7	0.0	16399.7
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	22129.1	0.0	22129.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.6	1.7
10°-20°	1165.0	5.3
20°-30°	1977.2	8.9
30°-40°	2860.9	12.9
40°-50°	3754.2	17.0
50°-60°	4386.6	19.8
60°-70°	4402.2	19.9
70°-80°	2805.1	12.7
80°-90°	394.2	1.8
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°	22129.1	100.0
0°-180°	22129.1	100.0



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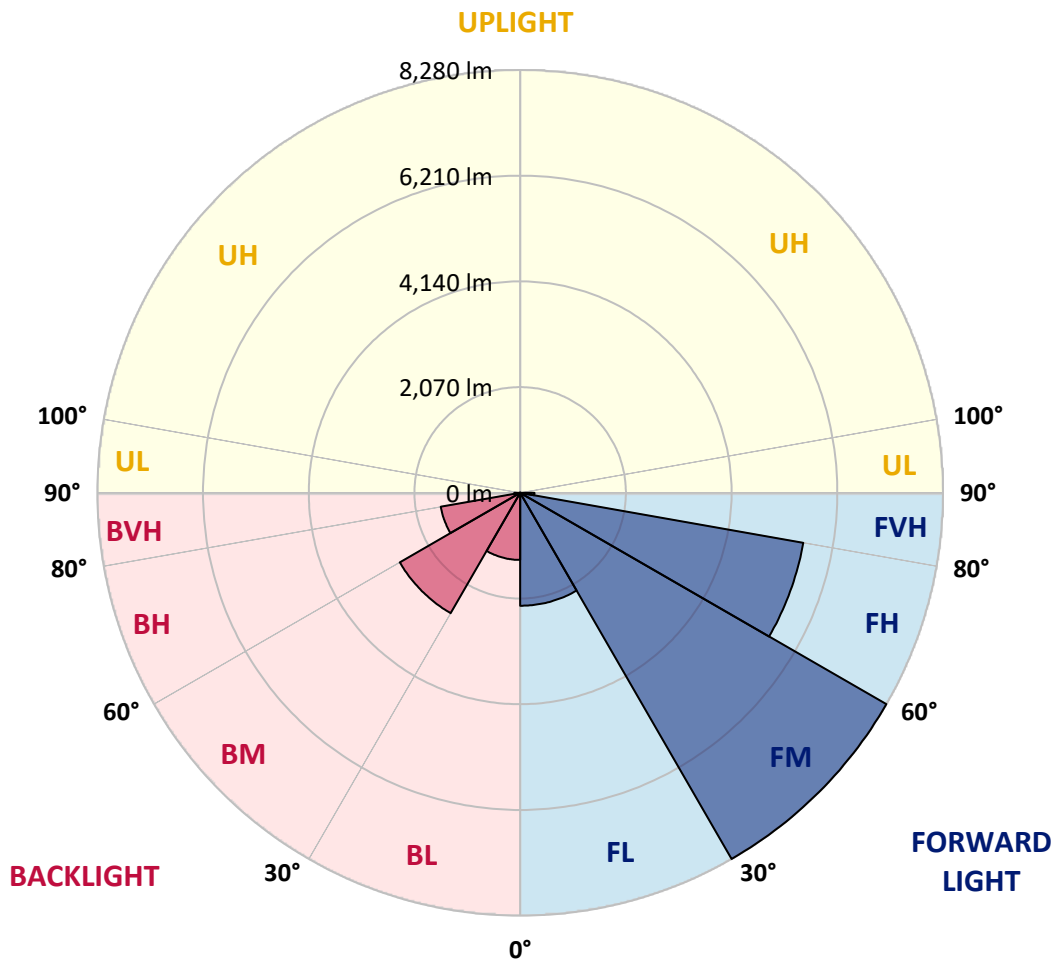
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2211.8	10.0			
FM (30°-60°)	8280.4	37.4			
FH (60°-80°)	5629.4	25.4			G3/7500
FVH (80°-90°)	278.1	1.3			G3/500
BL (0°-30°)	1314.0	5.9	B3/2500		
BM (30°-60°)	2721.3	12.3	B3/5000		
BH (60°-80°)	1577.9	7.1	B3/2500		G3/2500
BVH (80°-90°)	116.1	0.5			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°	70°	75°	85°
0°	3994	3994	3994	3994	3994	3994	3994	3994	3994	3994	3994
2.5°	4147	4191	4185	4158	4177	4125	4106	4077	4047	4037	4020
5°	4343	4401	4390	4354	4353	4279	4237	4182	4136	4100	4047
7.5°	4526	4593	4583	4548	4546	4461	4374	4288	4235	4189	4092
10°	4720	4771	4762	4717	4708	4625	4523	4415	4337	4273	4135
12.5°	4899	4953	4957	4901	4887	4798	4709	4566	4465	4392	4189
15°	5066	5130	5118	5062	5047	4957	4870	4738	4633	4531	4277
17.5°	5200	5261	5246	5221	5213	5143	5071	4928	4835	4704	4413
20°	5292	5349	5355	5348	5394	5328	5288	5187	5085	4967	4599
22.5°	5328	5396	5454	5499	5594	5584	5577	5519	5419	5247	4845
25°	5339	5407	5497	5608	5778	5839	5883	5897	5788	5652	5151
27.5°	5341	5414	5506	5685	5944	6128	6233	6282	6221	6113	5567
30°	5299	5374	5492	5731	6074	6376	6550	6767	6741	6650	6088
32.5°	5178	5246	5409	5723	6203	6630	6901	7277	7365	7306	6689
35°	4961	5044	5255	5657	6273	6877	7314	7899	8058	8062	7426
37.5°	4742	4805	5053	5533	6312	7096	7706	8522	8753	8758	8039
40°	4509	4567	4840	5367	6272	7268	8071	9121	9452	9421	8641
42.5°	4207	4271	4542	5141	6172	7401	8442	9750	10068	10103	9269
45°	3949	4000	4237	4788	5989	7473	8790	10421	10785	10748	9939
47.5°	3631	3707	3960	4501	5660	7455	9123	11085	11490	11456	10520
50°	2801	2889	3477	4200	5240	7314	9425	11720	12223	12134	11135
52.5°	2544	2569	2803	3854	4826	6994	9647	12522	12820	12785	11758
55°	2387	2435	2542	3175	4454	6474	9801	13192	13528	13364	12322
57.5°	2249	2283	2410	2718	4026	5758	9756	13757	14057	13828	12873
60°	2102	2124	2251	2481	3564	4967	9299	14340	14473	14263	13339
62.5°	1988	2009	2085	2306	3204	4401	8551	14381	14709	14556	13735
65°	1842	1856	1951	2125	2870	4064	7892	13996	14595	14557	13887
67.5°	1681	1698	1788	1911	2443	3667	6790	13788	14113	14150	13602
70°	1492	1504	1597	1686	2090	3219	5398	12991	13370	13369	12722
72.5°	1288	1287	1379	1473	1751	2704	4226	11534	12537	12462	11470
75°	1062	1077	1166	1240	1457	2192	2943	8355	11068	11171	9899
77.5°	679	689	739	815	1019	1675	1920	4643	7390	8914	7792
80°	496	501	545	589	678	1020	976	2018	2929	4376	4780
82.5°	338	339	374	384	389	460	463	982	1395	1643	2111
85°	224	186	145	192	197	169	165	443	692	830	782
87.5°	50	49	57	58	56	48	40	68	104	103	132
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°	3994	3994	3994	3994	3994	3994	3994	3994	3994	3994	3994
2.5°	4004	3999	3971	3912	3872	3831	3808	3794	3799	3776	3766
5°	4014	3989	3910	3840	3777	3706	3647	3639	3651	3630	3618
7.5°	4040	3987	3886	3766	3661	3594	3509	3466	3463	3442	3446
10°	4055	3986	3851	3706	3583	3464	3373	3325	3322	3292	3285
12.5°	4096	3997	3810	3633	3496	3337	3241	3197	3192	3150	3134
15°	4159	4022	3767	3548	3371	3222	3107	3048	3039	2990	2973
17.5°	4259	4093	3754	3471	3262	3099	2964	2900	2848	2821	2798
20°	4394	4181	3769	3399	3125	2937	2769	2685	2649	2605	2608
22.5°	4586	4319	3795	3343	3001	2764	2575	2481	2416	2379	2381
25°	4856	4527	3846	3290	2866	2575	2352	2221	2155	2131	2106
27.5°	5197	4776	3967	3225	2706	2361	2114	1961	1894	1858	1853
30°	5635	5103	4109	3177	2538	2094	1819	1698	1639	1588	1564
32.5°	6169	5565	4267	3129	2330	1795	1546	1453	1359	1294	1297
35°	6789	6068	4502	3068	2086	1516	1344	1224	1136	1093	1073
37.5°	7374	6584	4778	3006	1813	1335	1145	1034	966	933	940
40°	7966	7116	5016	2854	1507	1171	948	885	858	832	835
42.5°	8496	7540	5190	2685	1293	983	808	822	838	823	819
45°	9048	8036	5343	2397	1114	835	773	812	847	845	840
47.5°	9602	8496	5358	2015	951	785	772	801	847	855	849
50°	10173	8978	5270	1565	882	791	773	778	829	838	835
52.5°	10806	9499	5053	1190	855	801	776	769	798	814	817
55°	11388	9913	4646	1051	835	802	798	775	776	768	788
57.5°	11877	10308	4184	975	817	793	808	765	753	720	712
60°	12383	10629	3534	923	796	782	783	748	718	670	656
62.5°	12742	10799	2903	862	767	765	750	724	697	655	649
65°	12846	10709	2230	798	729	737	710	674	562	510	510
67.5°	12502	10155	1651	724	683	699	646	531	473	442	447
70°	11559	9260	1075	616	617	630	533	478	423	404	414
72.5°	10299	7933	709	491	520	498	487	440	391	369	376
75°	8487	6264	492	386	337	425	433	370	332	403	419
77.5°	6705	4354	406	270	249	314	347	343	549	645	638
80°	3987	2507	331	187	176	202	273	394	615	462	440
82.5°	1808	1140	176	98	115	134	204	490	403	296	279
85°	706	372	70	43	40	50	93	236	162	131	131
87.5°	91	67	20	15	13	16	30	131	76	64	62
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)