

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: P509460

Luminaire Tested: **VERD-G-CA2-100-740-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-100-740-U-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 930mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13881 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

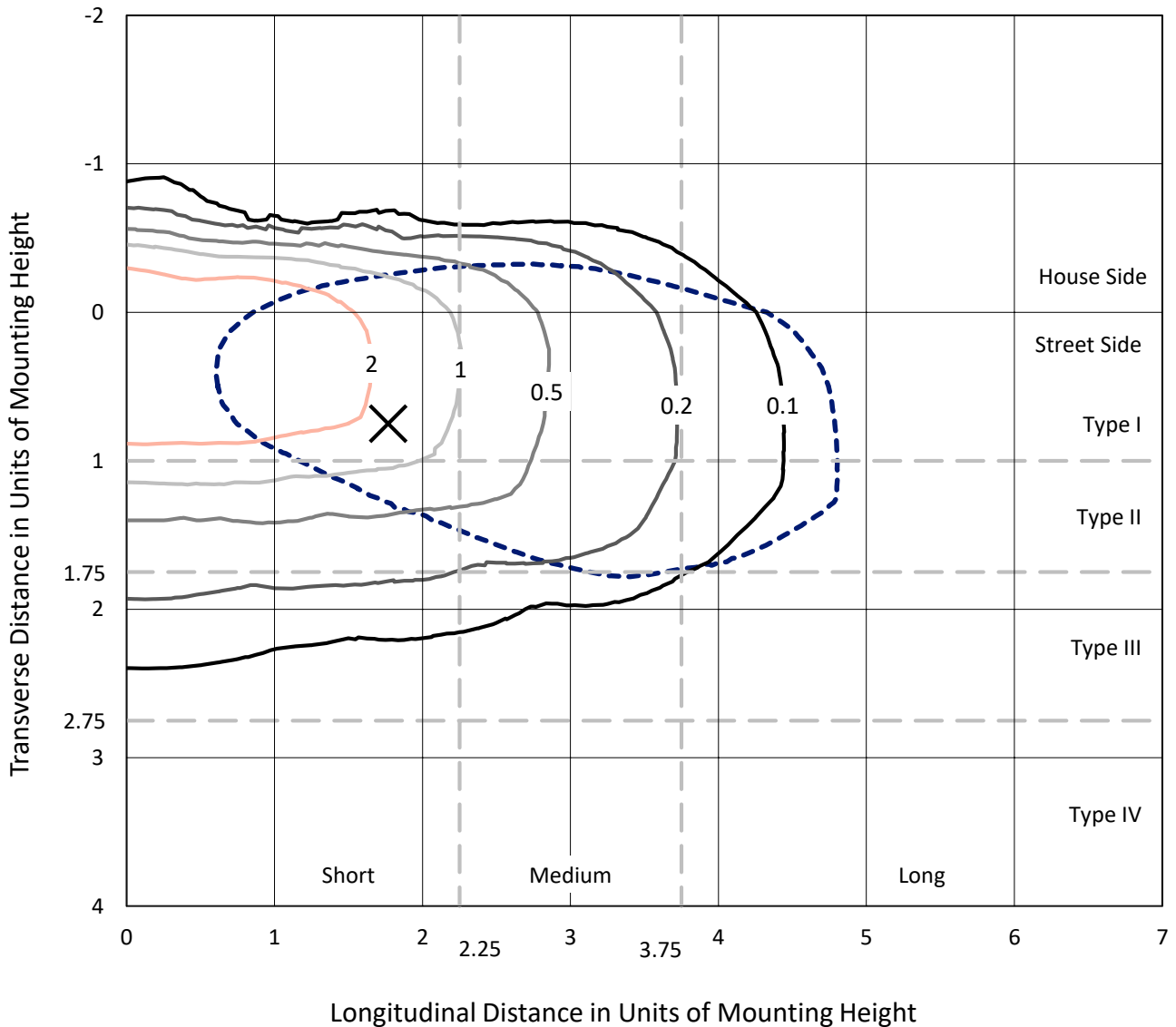
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509460  
 CATALOG NUMBER: VERD-G-CA2-100-740-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

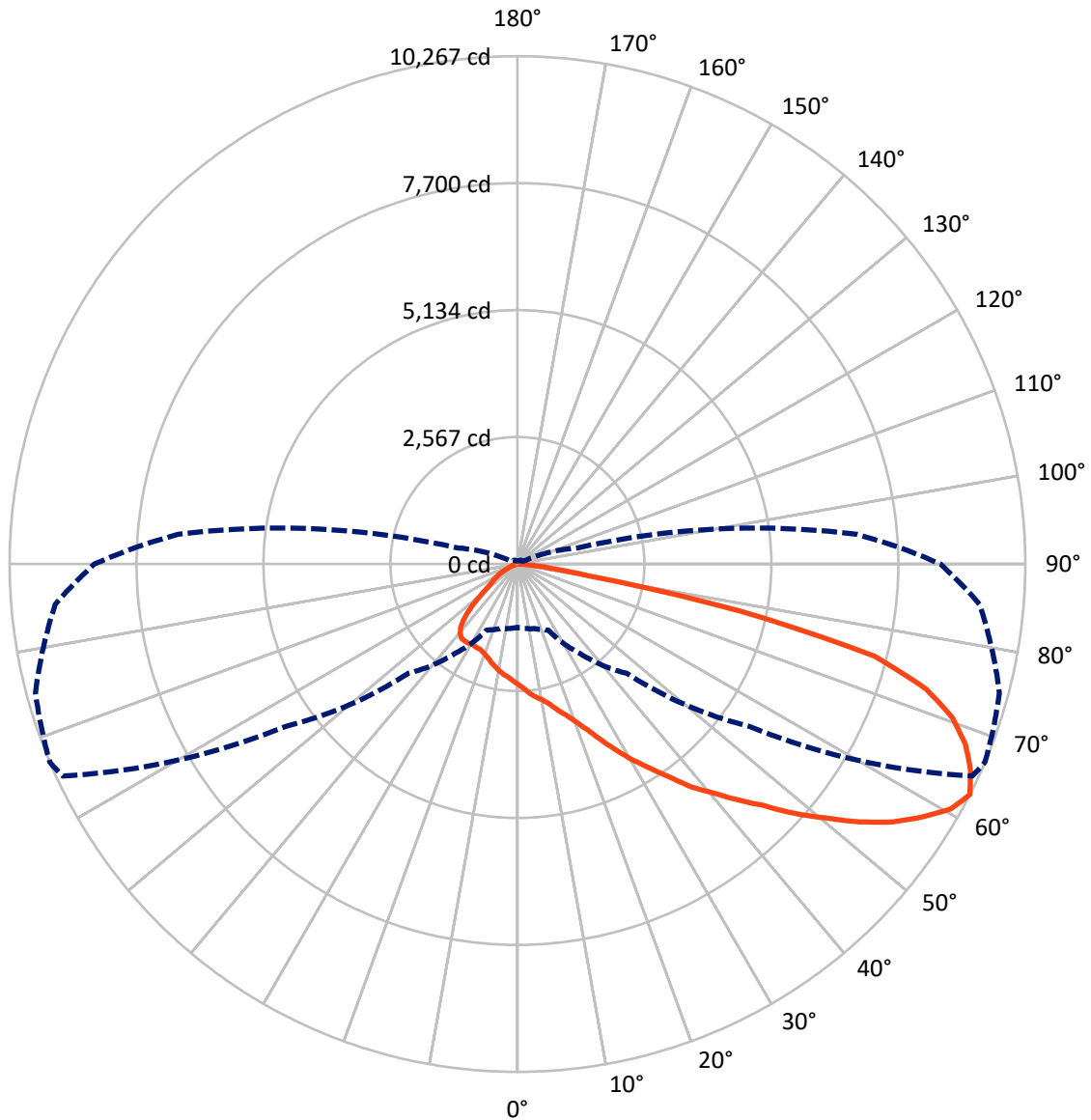
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P509460  
CATALOG NUMBER: VERD-G-CA2-100-740-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509460  
 CATALOG NUMBER: VERD-G-CA2-100-740-U-T2-HSS

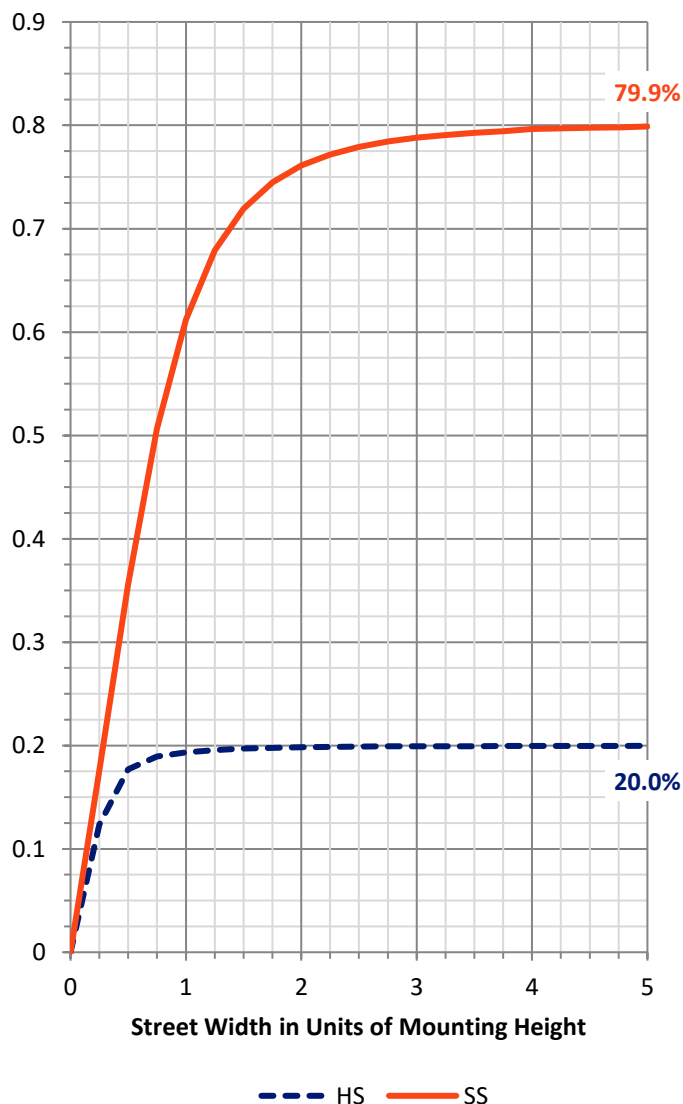
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2805.1	0.0	2805.1
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	11076.0	0.0	11076.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	13881.0	0.0	13881.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	1.7
10°-20°	710.8	5.1
20°-30°	1212.4	8.7
30°-40°	1776.2	12.8
40°-50°	2344.0	16.9
50°-60°	2758.5	19.9
60°-70°	2837.1	20.4
70°-80°	1838.1	13.2
80°-90°	168.3	1.2
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°	13881.0	100.0
0°-180°	13881.0	100.0



REPORT NUMBER: P509460

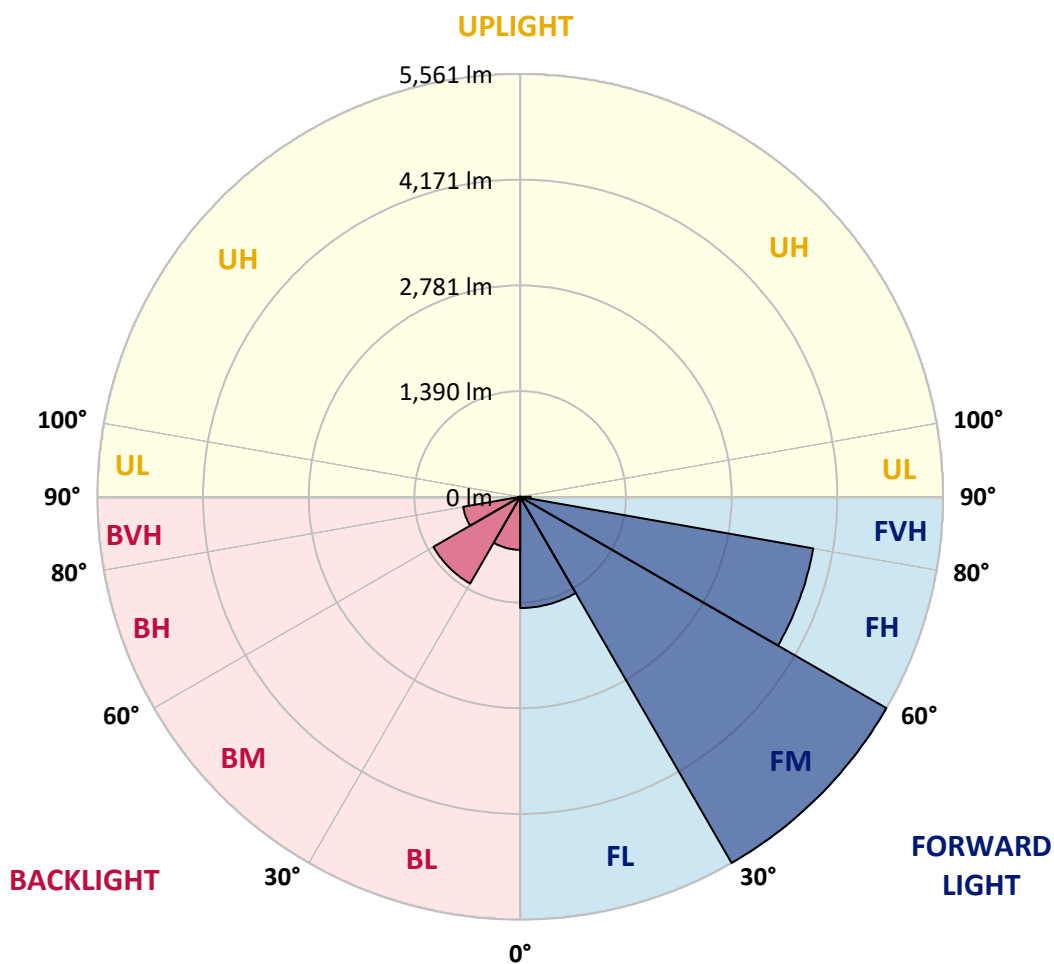
CATALOG NUMBER: VERD-G-CA2-100-740-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.7	10.5			
FM (30°-60°)	5561.5	40.1			
FH (60°-80°)	3913.7	28.2			G2/5000
FVH (80°-90°)	139.1	1.0			G2/225
BL (0°-30°)	697.2	5.0	B2/1000		
BM (30°-60°)	1317.2	9.5	B2/2500		
BH (60°-80°)	761.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	29.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P509460

CATALOG NUMBER: VERD-G-CA2-100-740-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2439	2439	2439	2439	2439	2439	2439	2439	2439	2439	2439
2.5°	2705	2702	2673	2646	2628	2627	2580	2538	2519	2497	2448
5°	2845	2869	2837	2797	2765	2741	2700	2652	2632	2580	2506
7.5°	3048	3048	3018	2984	2947	2883	2813	2729	2719	2661	2564
10°	3146	3170	3131	3091	3050	3017	2922	2819	2794	2707	2587
12.5°	3283	3283	3262	3228	3181	3115	3054	2950	2908	2778	2628
15°	3412	3401	3383	3327	3303	3262	3182	3073	3065	2921	2691
17.5°	3513	3495	3478	3448	3419	3403	3346	3251	3218	3086	2810
20°	3565	3580	3539	3538	3547	3535	3497	3426	3412	3255	2931
22.5°	3624	3644	3634	3644	3671	3691	3689	3674	3652	3481	3126
25°	3637	3624	3666	3759	3827	3875	3969	3950	3944	3793	3391
27.5°	3597	3609	3675	3809	3984	4115	4192	4287	4266	4149	3710
30°	3573	3594	3681	3838	4073	4310	4462	4580	4598	4505	4024
32.5°	3490	3518	3608	3861	4160	4519	4708	4928	4920	4882	4406
35°	3362	3399	3537	3831	4258	4707	4958	5278	5284	5300	4769
37.5°	3259	3271	3428	3742	4297	4859	5191	5624	5721	5698	5181
40°	3094	3130	3300	3633	4293	4962	5428	6029	6081	6153	5612
42.5°	2891	2930	3093	3485	4237	5052	5656	6442	6515	6628	6007
45°	2696	2713	2866	3269	4128	5123	5878	6849	6961	7123	6405
47.5°	2453	2499	2670	3043	3887	5149	6042	7329	7535	7634	6859
50°	1887	1916	2396	2844	3625	5068	6255	7938	8068	8171	7319
52.5°	1663	1689	1875	2614	3333	4858	6385	8504	8661	8639	7781
55°	1569	1582	1662	2133	3067	4468	6476	9122	9207	9065	8239
57.5°	1460	1475	1535	1788	2767	3974	6400	9617	9649	9473	8647
60°	1363	1373	1463	1600	2441	3495	6208	9973	10062	9773	9087
62.5°	1280	1304	1351	1472	2213	3124	5722	10141	10267	10087	9379
65°	1198	1209	1263	1370	1968	2905	5444	9920	10067	10129	9559
67.5°	1086	1102	1155	1232	1642	2692	4795	9561	9771	9908	9452
70°	955	969	1023	1087	1371	2378	4047	9195	9333	9342	8974
72.5°	803	816	870	934	1138	1980	3172	8328	8637	8833	8172
75°	511	567	701	773	937	1602	2263	6649	7461	8021	7072
77.5°	83	93	275	392	545	1086	1257	3684	4634	6703	5710
80°	63	71	100	266	350	676	495	1196	1442	3134	3199
82.5°	27	32	60	149	165	180	133	535	633	953	1110
85°	9	12	28	47	52	40	29	212	261	457	423
87.5°	0	1	6	7	6	4	3	2	2	3	3
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P509460  
 CATALOG NUMBER: VERD-G-CA2-100-740-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2439	2439	2439	2439	2439	2439	2439	2439	2439	2439	2439
2.5°	2438	2404	2400	2359	2322	2280	2254	2245	2257	2269	2281
5°	2468	2416	2364	2279	2241	2195	2134	2097	2080	2095	2100
7.5°	2490	2423	2343	2227	2145	2057	1999	1937	1903	1909	1914
10°	2494	2420	2284	2172	2040	1919	1843	1814	1791	1771	1774
12.5°	2531	2422	2234	2098	1959	1803	1718	1681	1677	1636	1632
15°	2581	2466	2208	2031	1853	1706	1605	1539	1541	1520	1517
17.5°	2662	2509	2189	1953	1742	1607	1479	1419	1400	1394	1389
20°	2753	2572	2166	1884	1645	1488	1345	1284	1231	1215	1217
22.5°	2887	2655	2185	1832	1537	1372	1230	1111	1020	996	993
25°	3124	2819	2242	1787	1470	1259	1068	901	781	755	757
27.5°	3388	3035	2321	1768	1385	1134	871	685	573	543	545
30°	3701	3292	2441	1715	1294	952	649	502	415	380	382
32.5°	4002	3549	2595	1707	1180	715	469	365	294	268	271
35°	4334	3843	2757	1667	993	513	329	253	215	207	206
37.5°	4710	4105	2877	1630	743	361	225	195	190	179	179
40°	5059	4378	2967	1532	520	245	176	177	172	157	154
42.5°	5381	4660	3050	1375	352	167	158	161	163	146	142
45°	5746	5008	3032	1139	224	151	142	151	161	144	140
47.5°	6146	5263	3070	822	158	143	132	144	152	141	135
50°	6598	5597	2955	478	145	135	127	132	144	138	131
52.5°	7012	5895	2798	234	137	127	119	123	135	128	130
55°	7361	6205	2479	167	132	118	115	116	123	114	120
57.5°	7789	6460	2155	156	128	112	113	105	107	102	96
60°	8170	6701	1715	144	122	115	102	91	85	82	81
62.5°	8551	6884	1264	131	116	104	90	78	68	64	63
65°	8695	6982	863	120	109	95	80	63	52	48	45
67.5°	8588	6675	500	108	105	87	70	51	40	37	35
70°	8092	6193	267	98	92	77	62	42	32	28	27
72.5°	7239	5326	140	82	77	63	49	35	26	21	20
75°	6147	4181	98	60	53	49	37	28	21	16	15
77.5°	4852	2717	74	39	31	32	27	23	17	12	12
80°	2506	1412	56	26	18	19	19	17	13	9	9
82.5°	994	520	39	15	11	12	11	11	9	6	6
85°	328	114	14	9	7	7	6	5	3	2	2
87.5°	3	3	4	5	5	4	3	1	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)