

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: P509268

Luminaire Tested: **VERD-CA2-60-740-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-740-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 850mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8391 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

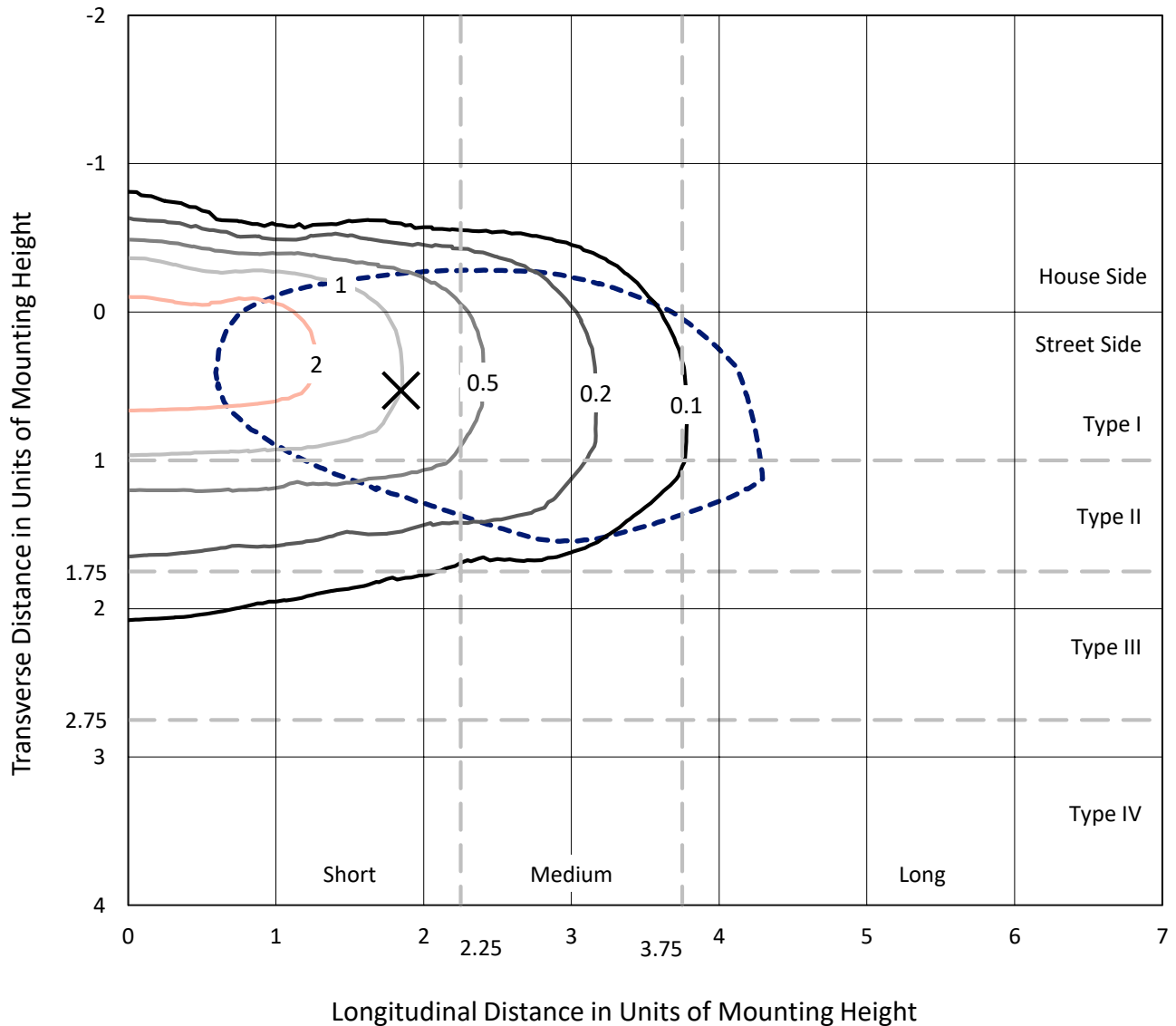
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

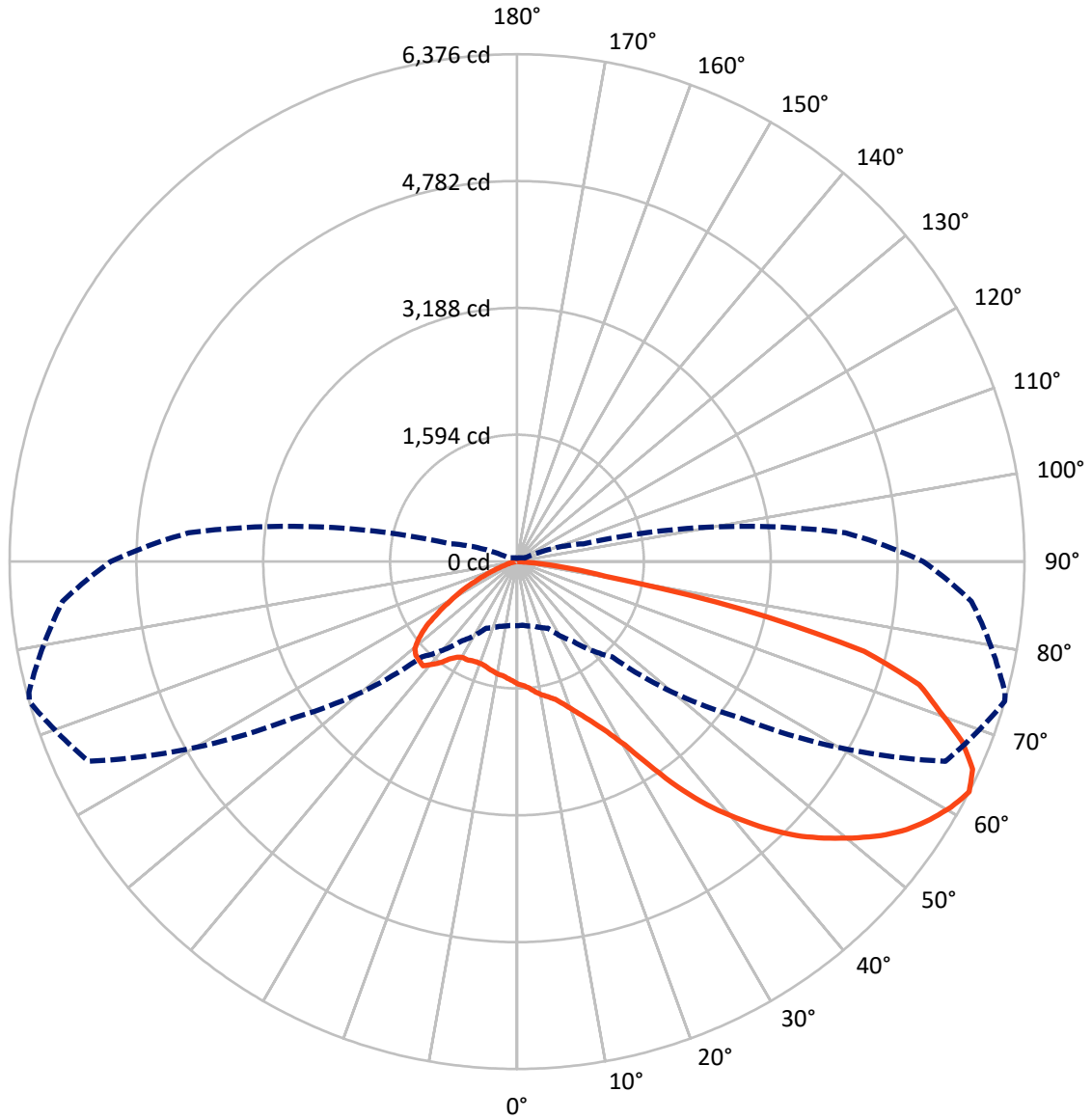
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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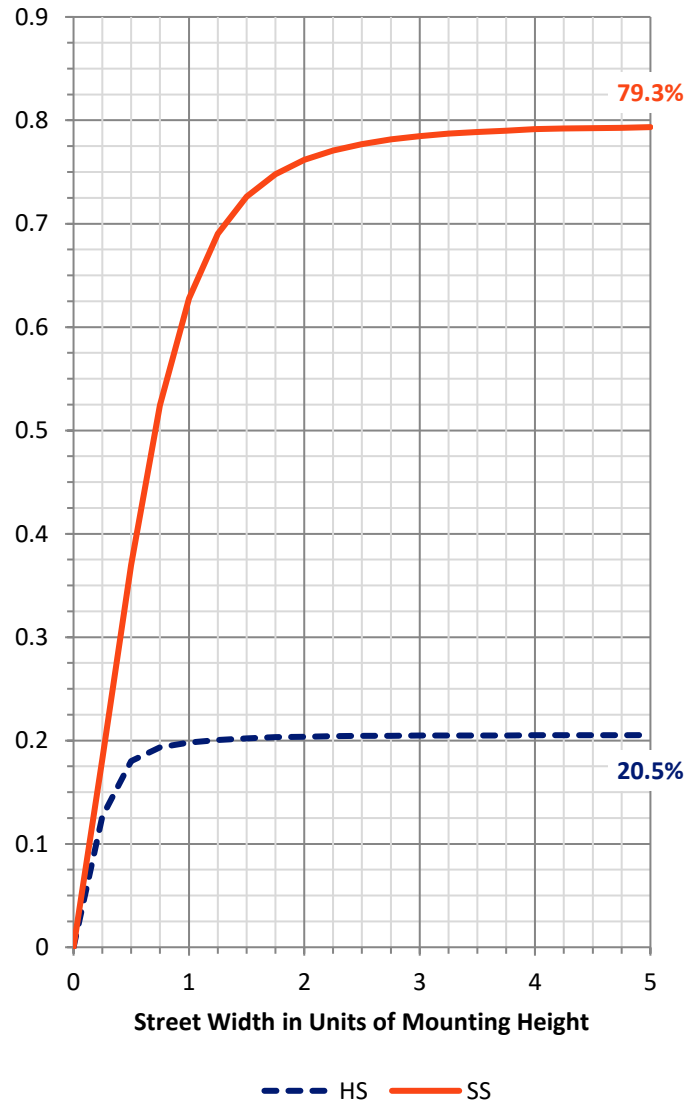
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.4	0.0	1742.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6648.5	0.0	6648.5
	% Fixture	79.2	0.0	79.2
Total	Lumens	8391.0	0.0	8391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.7
10°-20°	442.9	5.3
20°-30°	747.7	8.9
30°-40°	1112.1	13.3
40°-50°	1505.2	17.9
50°-60°	1731.7	20.6
60°-70°	1671.6	19.9
70°-80°	946.4	11.3
80°-90°	86.8	1.0
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°	8391.0	100.0
0°-180°	8391.0	100.0

Coefficient of Utilization



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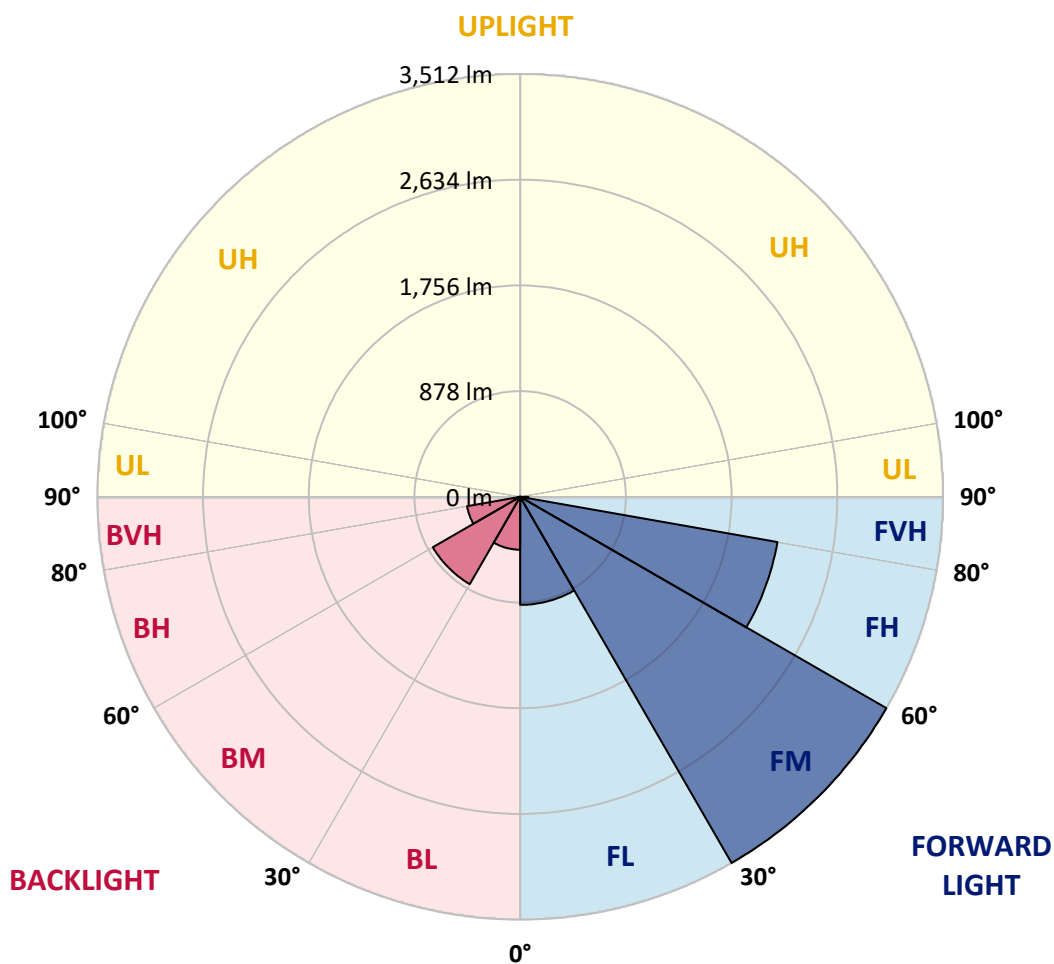
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.8	10.7			
FM (30°-60°)	3512.3	41.9			
FH (60°-80°)	2170.0	25.9			G2/5000
FVH (80°-90°)	68.4	0.8			G1/100
BL (0°-30°)	439.3	5.2	B1/500		
BM (30°-60°)	836.7	10.0	B1/1000		
BH (60°-80°)	447.9	5.3	B1/500		G1/500
BVH (80°-90°)	18.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538
2.5°	1677	1666	1657	1652	1638	1626	1602	1577	1560	1559	1543
5°	1747	1746	1726	1722	1703	1697	1673	1637	1595	1590	1547
7.5°	1839	1828	1806	1797	1775	1759	1727	1693	1651	1646	1571
10°	1928	1922	1909	1910	1879	1849	1801	1743	1703	1697	1605
12.5°	2031	2012	1990	1978	1947	1928	1882	1806	1743	1737	1645
15°	2102	2092	2072	2064	2034	2003	1950	1891	1796	1790	1686
17.5°	2178	2173	2150	2145	2116	2079	2038	1961	1878	1868	1735
20°	2229	2220	2217	2216	2208	2185	2133	2073	1981	1963	1798
22.5°	2297	2288	2292	2296	2307	2297	2263	2192	2101	2085	1897
25°	2304	2298	2325	2381	2403	2414	2388	2333	2245	2224	2015
27.5°	2323	2314	2343	2402	2501	2518	2523	2497	2423	2411	2175
30°	2289	2283	2328	2429	2540	2636	2673	2709	2675	2654	2398
32.5°	2206	2210	2269	2403	2608	2756	2852	2979	3040	3036	2793
35°	2085	2083	2182	2371	2614	2869	3048	3306	3477	3465	3208
37.5°	1982	1977	2089	2290	2619	2959	3278	3663	3880	3868	3547
40°	1856	1864	1964	2196	2577	3026	3478	4010	4232	4232	3898
42.5°	1729	1736	1835	2065	2516	3075	3666	4356	4582	4587	4139
45°	1618	1621	1711	1918	2406	3083	3839	4703	4910	4897	4414
47.5°	1423	1456	1597	1786	2256	3048	3985	5012	5192	5165	4676
50°	1134	1134	1329	1660	2084	2955	4100	5294	5460	5435	4905
52.5°	1042	1044	1104	1483	1910	2795	4166	5574	5723	5706	5122
55°	993	996	1024	1202	1752	2550	4168	5791	5946	5908	5305
57.5°	919	914	973	1071	1567	2234	4070	5959	6119	6090	5455
60°	867	859	899	987	1368	1907	3809	6081	6267	6284	5602
62.5°	806	803	841	924	1221	1693	3417	5939	6376	6349	5732
65°	745	739	775	840	1079	1518	3022	5729	6292	6316	5758
67.5°	665	664	698	746	924	1322	2450	5453	6032	6015	5522
70°	568	568	602	644	772	1128	1881	4980	5632	5731	5118
72.5°	459	461	495	543	637	919	1387	4331	5285	5126	4548
75°	245	220	388	437	514	733	949	2816	4507	4397	3773
77.5°	59	62	122	227	274	406	467	1304	2906	3081	2691
80°	39	43	66	161	183	216	185	568	1127	1201	1562
82.5°	20	22	41	64	65	56	70	286	596	646	751
85°	7	11	21	28	26	21	17	71	141	157	163
87.5°	0	0	3	3	2	2	3	3	4	3	3
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°	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538	1538
2.5°	1530	1519	1502	1484	1465	1449	1440	1445	1451	1432	1425
5°	1527	1508	1476	1438	1409	1380	1346	1338	1330	1320	1309
7.5°	1541	1513	1448	1413	1352	1298	1268	1246	1226	1208	1197
10°	1567	1515	1442	1371	1304	1238	1173	1160	1156	1130	1111
12.5°	1584	1520	1421	1335	1239	1168	1103	1066	1063	1051	1038
15°	1611	1540	1407	1290	1173	1098	1038	990	966	965	955
17.5°	1660	1563	1385	1244	1120	1036	950	932	892	869	863
20°	1710	1597	1379	1198	1051	947	881	831	799	775	760
22.5°	1775	1646	1381	1171	995	880	794	720	661	632	618
25°	1869	1703	1396	1130	929	808	683	585	502	481	471
27.5°	1989	1783	1417	1088	868	711	549	439	370	354	344
30°	2173	1903	1420	1062	813	585	411	325	271	254	256
32.5°	2519	2160	1460	1008	715	449	302	237	196	190	200
35°	2921	2463	1537	980	603	325	216	174	148	156	160
37.5°	3180	2730	1660	916	472	239	151	136	131	136	145
40°	3482	2947	1765	851	335	164	121	124	118	117	121
42.5°	3727	3170	1877	744	233	122	111	113	109	104	104
45°	3960	3363	1876	600	154	108	102	106	105	98	97
47.5°	4164	3558	1877	436	117	99	95	99	99	93	92
50°	4417	3720	1847	279	107	92	91	90	94	86	84
52.5°	4572	3838	1712	188	99	87	85	83	85	78	78
55°	4742	3985	1536	149	94	81	80	78	78	70	71
57.5°	4927	4105	1299	131	90	77	75	72	68	62	61
60°	5061	4130	1063	119	87	75	67	63	56	52	51
62.5°	5106	4143	862	107	82	69	60	53	45	42	42
65°	5069	3993	646	97	76	64	53	43	35	32	31
67.5°	4831	3717	470	87	67	58	46	35	28	25	25
70°	4398	3392	318	73	58	51	43	28	23	20	19
72.5°	3926	2876	203	59	45	40	31	24	19	15	15
75°	3105	2259	141	43	32	30	24	20	16	12	12
77.5°	2161	1468	111	33	22	20	18	15	13	10	9
80°	1253	883	67	22	15	13	12	12	10	7	7
82.5°	622	368	29	14	10	9	8	7	7	5	5
85°	122	63	11	7	5	5	4	4	3	2	2
87.5°	4	3	3	3	2	2	1	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)