

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 767374

Luminaire Tested: **OVH15SXX2D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 767374
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVH15SXX2D
Description: 150 WATT HPS TYPE II ROADWAY
Light Source: 150W HPS CL ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 11706.1 lumens
Efficiency: 73.2%
Efficacy: 78.0 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

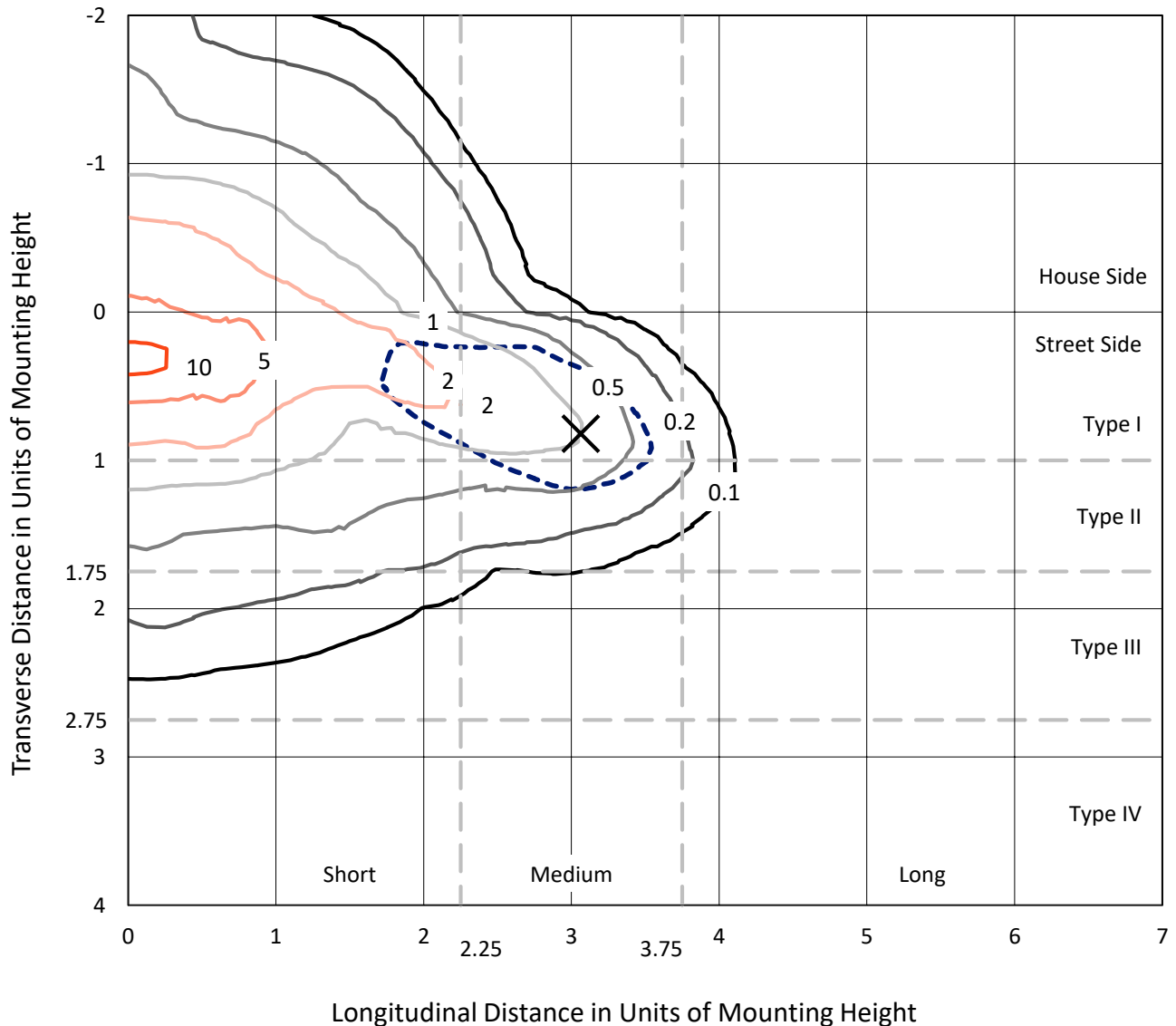
Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

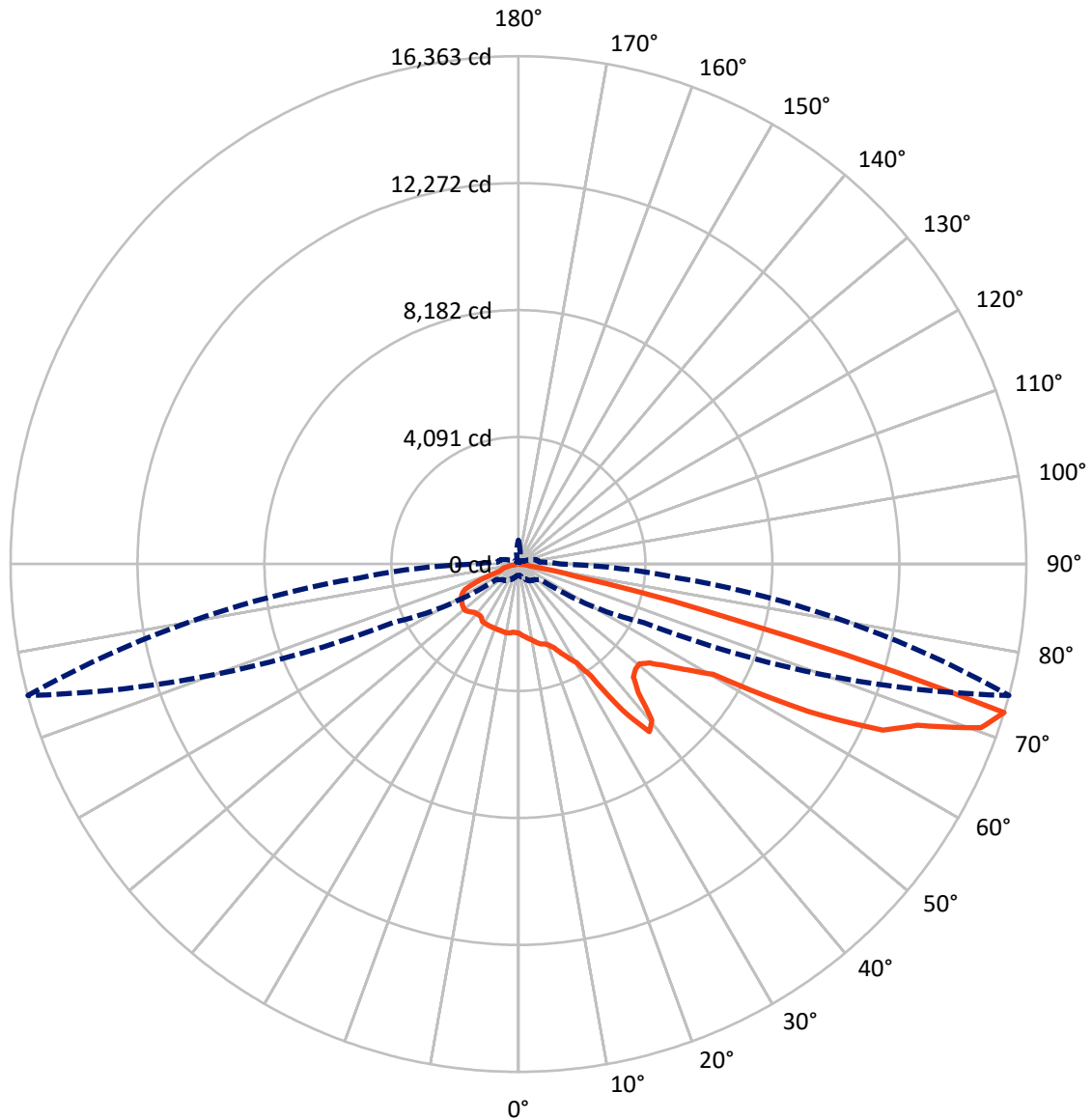
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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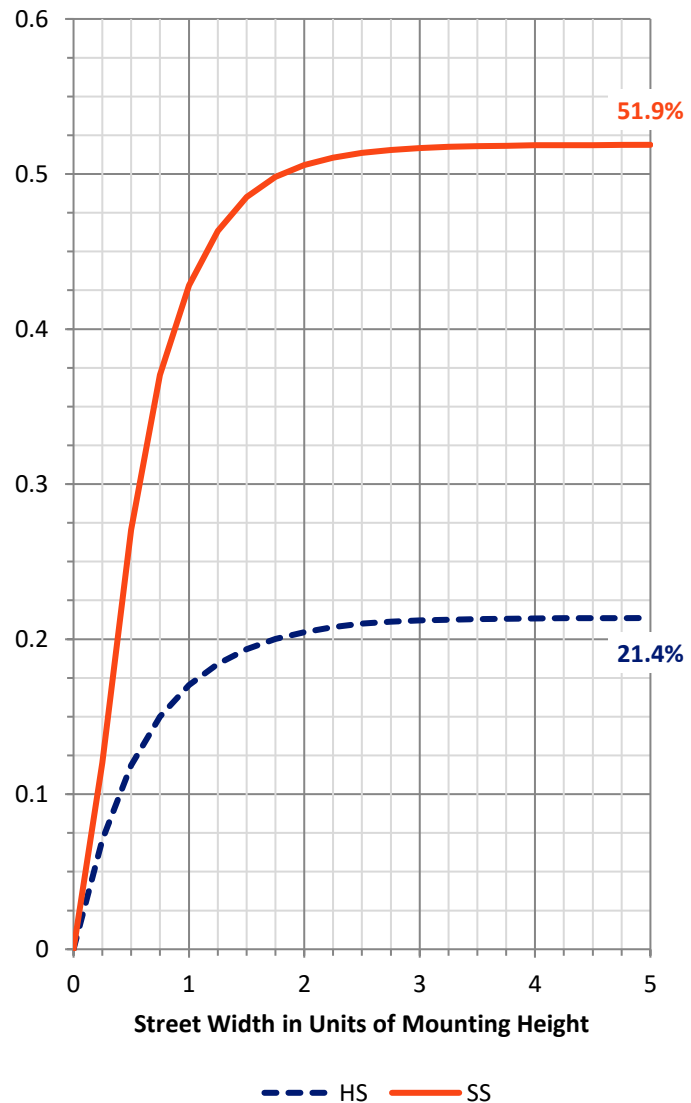
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3433.6	0.0	3433.6
	% Lamp	21.5	0.0	21.5
Street Side	Lumens	8272.5	0.0	8272.5
	% Lamp	51.7	0.0	51.7
Total	Lumens	11706.1	0.0	11706.1
	% Lamp	73.2	0.0	73.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	231.8	2.0	1.4
10°-20°	850.4	7.3	5.3
20°-30°	1445.1	12.3	9.0
30°-40°	1805.4	15.4	11.3
40°-50°	1955.6	16.7	12.2
50°-60°	2002.9	17.1	12.5
60°-70°	2354.4	20.1	14.7
70°-80°	1040.2	8.9	6.5
80°-90°	20.4	0.2	0.1
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°	11706.1	100.0	73.2
0°-180°	11706.1	100.0	73.2

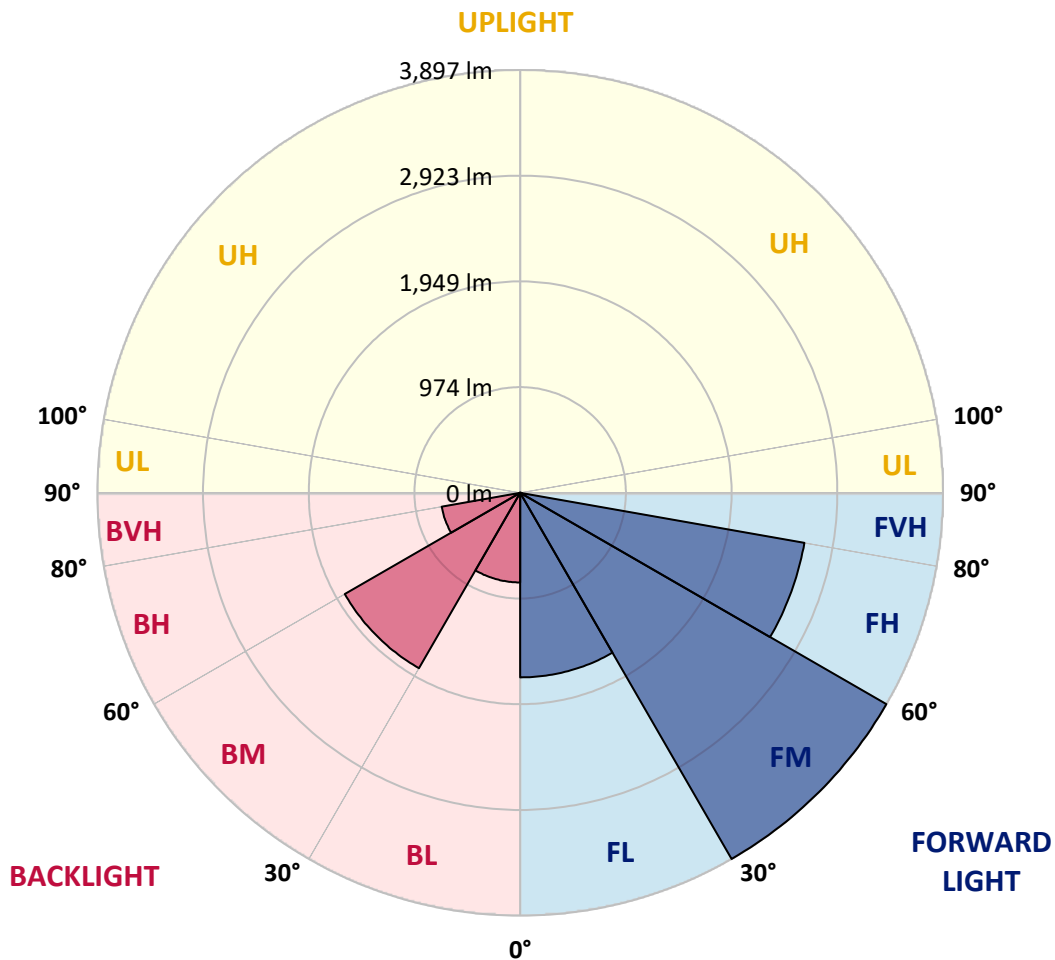


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1701.4	10.6			
FM	(30°-60°)	3897.1	24.4			
FH	(60°-80°)	2659.8	16.6			G2/5000
FVH	(80°-90°)	14.2	0.1			G1/100
BL	(0°-30°)	825.9	5.2	B2/1000		
BM	(30°-60°)	1866.8	11.7	B2/2500		
BH	(60°-80°)	734.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	6.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4293.9	26.8			

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228
2.5°	2466	2439	2466	2417	2428	2379	2369	2309	2298	2271	2244
5°	2715	2731	2709	2682	2639	2542	2487	2412	2358	2298	2266
7.5°	3190	3228	3153	3104	2942	2828	2671	2569	2433	2347	2331
10°	4045	3985	3926	3742	3418	3158	2877	2693	2498	2374	2287
12.5°	4759	4683	4732	4450	4164	3656	3196	2817	2596	2428	2293
15°	5180	5191	5229	4948	4726	4240	3574	2974	2677	2455	2309
17.5°	5354	5451	5435	5267	5034	4688	3893	3158	2704	2477	2352
20°	5408	5467	5483	5413	5218	4883	4137	3401	2785	2536	2439
22.5°	5321	5354	5397	5370	5354	4953	4450	3623	2926	2612	2509
25°	4953	5099	5078	5224	5321	5040	4515	3877	3169	2742	2563
27.5°	4337	4532	4526	4926	5126	4980	4521	4304	3418	2801	2623
30°	3472	3569	3753	4342	4726	4699	4591	4542	3677	2850	2666
32.5°	2877	2828	3044	3482	4256	4418	4878	4742	4304	3088	2807
35°	2498	2401	2617	2850	3477	4283	5105	5467	5797	3612	3066
37.5°	2206	2179	2336	2552	3061	4331	5408	7279	6857	4012	3185
40°	2022	2022	2044	2331	3034	4537	5959	7668	6619	4256	3272
42.5°	1882	1866	1903	2239	3169	4450	5732	6300	5662	3856	3028
45°	1774	1752	1806	2158	3039	3726	4191	5213	5191	3704	3185
47.5°	1601	1622	1649	1979	2671	3017	3180	4218	5072	4131	3569
50°	1503	1520	1525	1812	2331	2677	2752	3839	5051	4748	4018
52.5°	1428	1433	1411	1660	2098	2406	2612	3439	5294	5310	4158
55°	1384	1401	1319	1536	1947	2293	2725	3093	5792	5597	4202
57.5°	1298	1374	1217	1390	1757	2277	2855	2990	6440	5792	4099
60°	1211	1319	1130	1282	1633	2482	2807	3017	7208	7230	4267
62.5°	1082	1244	1071	1190	1547	2688	2601	3082	10464	7944	3342
65°	930	1071	968	1065	1303	2244	2871	3699	12903	7241	3055
67.5°	790	811	806	925	1082	1563	2974	4564	13860	7490	2536
70°	616	611	654	795	908	1152	2201	5013	15806	8144	1768
72.5°	368	368	438	535	660	714	865	4461	16363	5170	1346
75°	151	151	178	211	238	189	395	2688	7235	2217	860
77.5°	65	49	54	54	54	114	287	676	1844	806	433
80°	32	32	27	22	32	49	103	151	384	260	173
82.5°	11	11	11	11	11	32	32	54	103	81	59
85°	0	0	0	0	0	5	11	16	27	22	16
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°	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228
2.5°	2255	2212	2109	2185	2087	2147	2141	2120	2125	2109
5°	2255	2201	2087	2152	2033	2098	2060	2066	2033	2044
7.5°	2277	2239	2109	2141	2022	2066	2022	2022	1979	2001
10°	2277	2250	2093	2131	2006	2028	1995	1936	1925	1903
12.5°	2314	2239	2093	2114	2071	2017	1952	1887	1860	1839
15°	2347	2223	2087	2120	2066	2012	1893	1839	1779	1785
17.5°	2331	2212	2049	2082	2082	2044	1849	1779	1703	1720
20°	2336	2206	2001	2012	2049	2039	1828	1698	1644	1633
22.5°	2401	2206	1979	1952	1958	2006	1795	1622	1584	1568
25°	2455	2201	1958	1898	1839	1920	1752	1552	1509	1514
27.5°	2444	2195	1947	1855	1747	1785	1687	1476	1449	1471
30°	2439	2190	1914	1817	1682	1660	1574	1390	1401	1406
32.5°	2547	2190	1893	1785	1633	1547	1433	1319	1319	1330
35°	2677	2098	1844	1730	1557	1444	1314	1244	1211	1233
37.5°	2650	2071	1817	1676	1503	1374	1238	1179	1136	1146
40°	2612	2093	1812	1655	1482	1325	1206	1114	1082	1071
42.5°	2666	2098	1801	1639	1449	1271	1146	1033	1011	995
45°	2877	2168	1822	1617	1428	1260	1114	1000	973	963
47.5°	3023	2233	1790	1574	1379	1228	1076	957	930	930
50°	3104	2282	1763	1574	1368	1190	1049	952	963	963
52.5°	3126	2255	1725	1547	1341	1130	995	946	1054	1060
55°	3304	2228	1709	1536	1314	1109	963	973	1238	1265
57.5°	3288	2174	1693	1514	1276	1071	898	946	1357	1438
60°	3072	2136	1633	1422	1255	1022	849	887	1341	1471
62.5°	2688	2055	1547	1363	1184	946	784	779	1411	1687
65°	2455	1914	1449	1255	1082	871	698	681	1633	2228
67.5°	1741	1401	1087	973	898	687	535	535	1601	2412
70°	892	644	341	249	297	319	292	324	1060	1730
72.5°	698	552	260	141	146	114	59	151	508	768
75°	525	497	205	76	92	76	32	92	216	292
77.5°	276	319	97	43	59	49	22	49	92	108
80°	97	135	32	22	32	22	11	27	38	54
82.5°	27	49	16	11	11	11	5	11	16	22
85°	5	11	0	0	0	0	0	0	5	11
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)