

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: 767376

Luminaire Tested: **OVH15SXX3D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 767376
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVH15SXX3D
Description: 150W HPS TYPE III ROADWAY
Light Source: 150w HPS CL ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 11629.7 lumens
Efficiency: 72.7%
Efficacy: 77.5 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

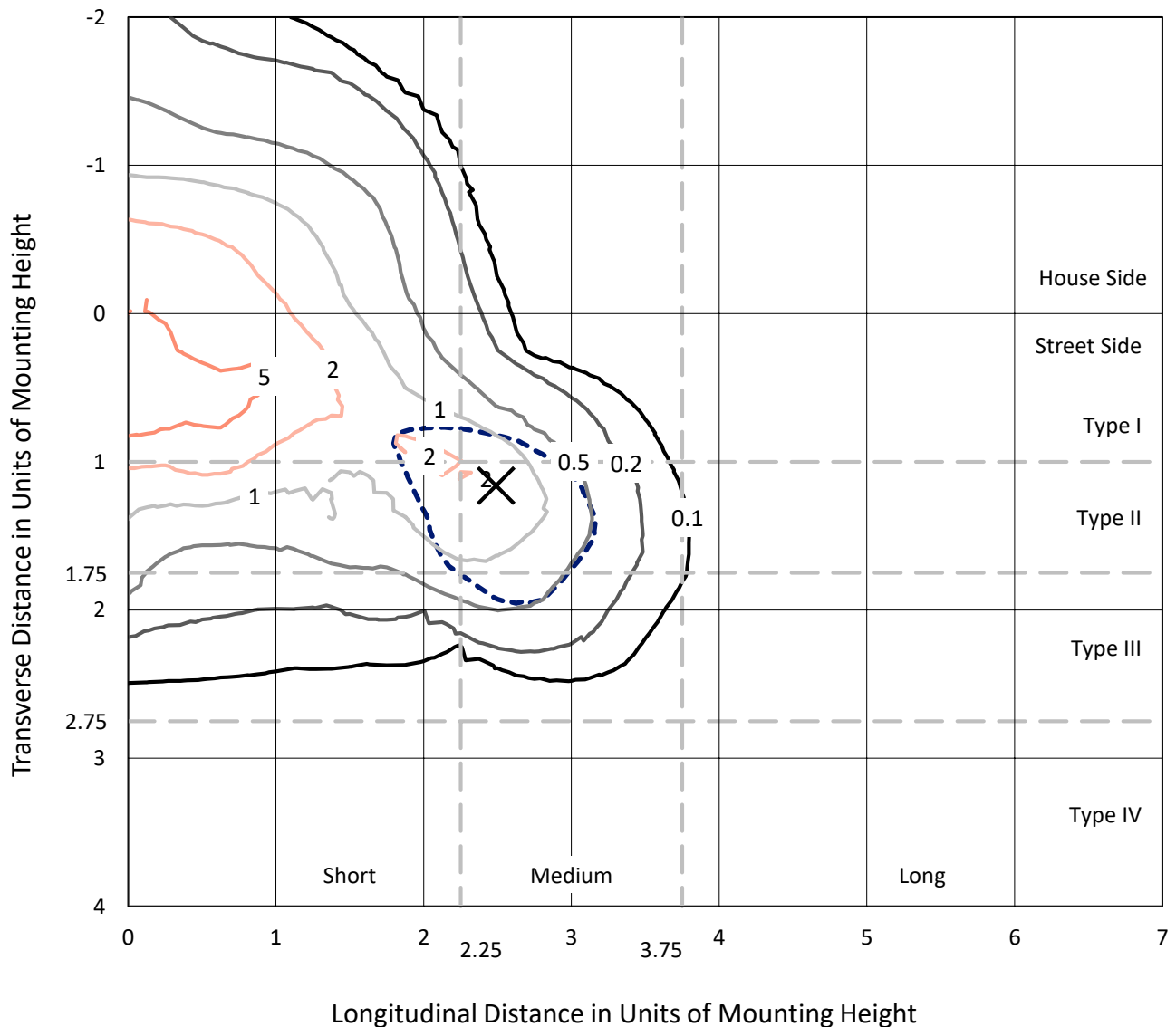
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

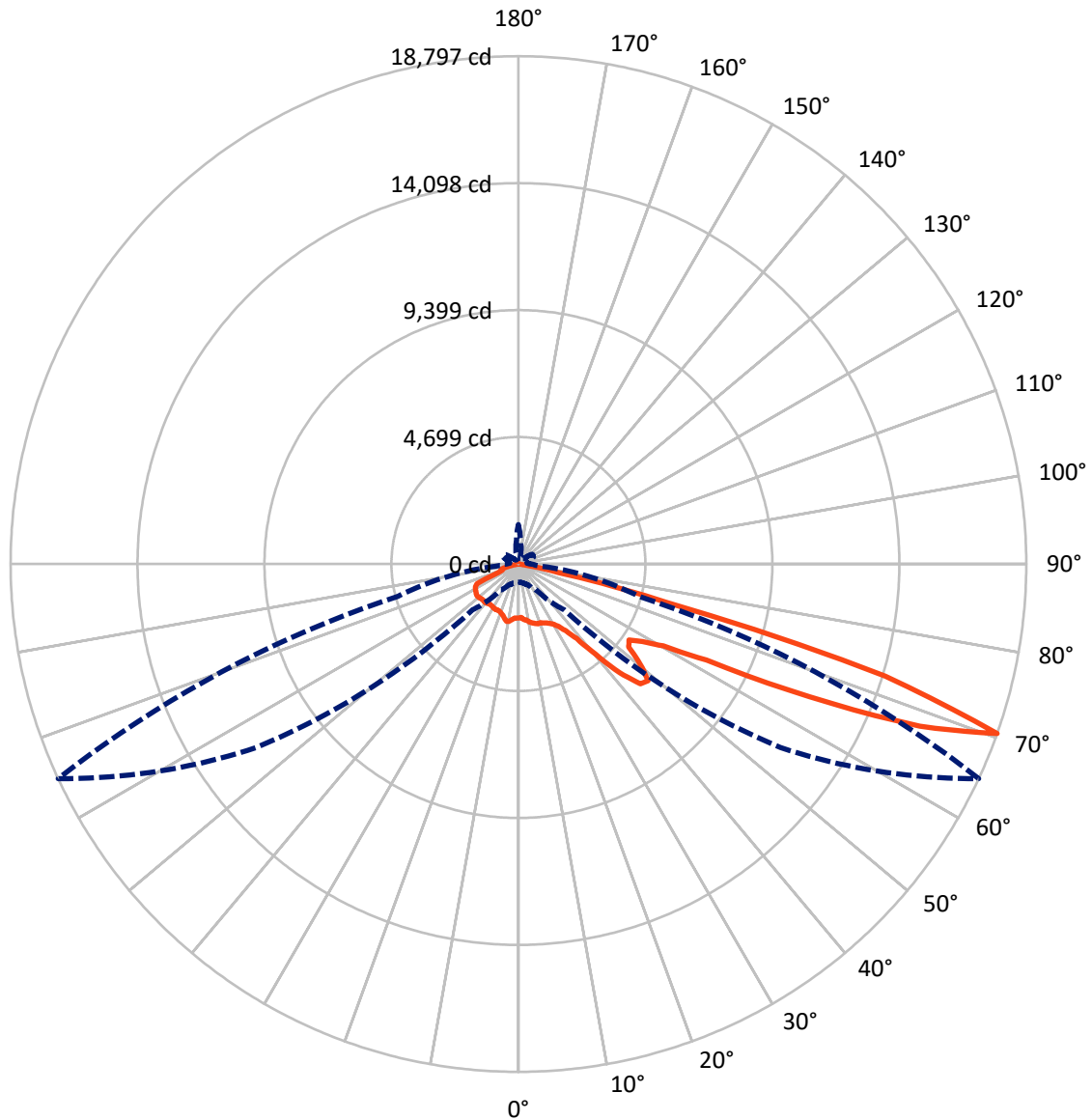
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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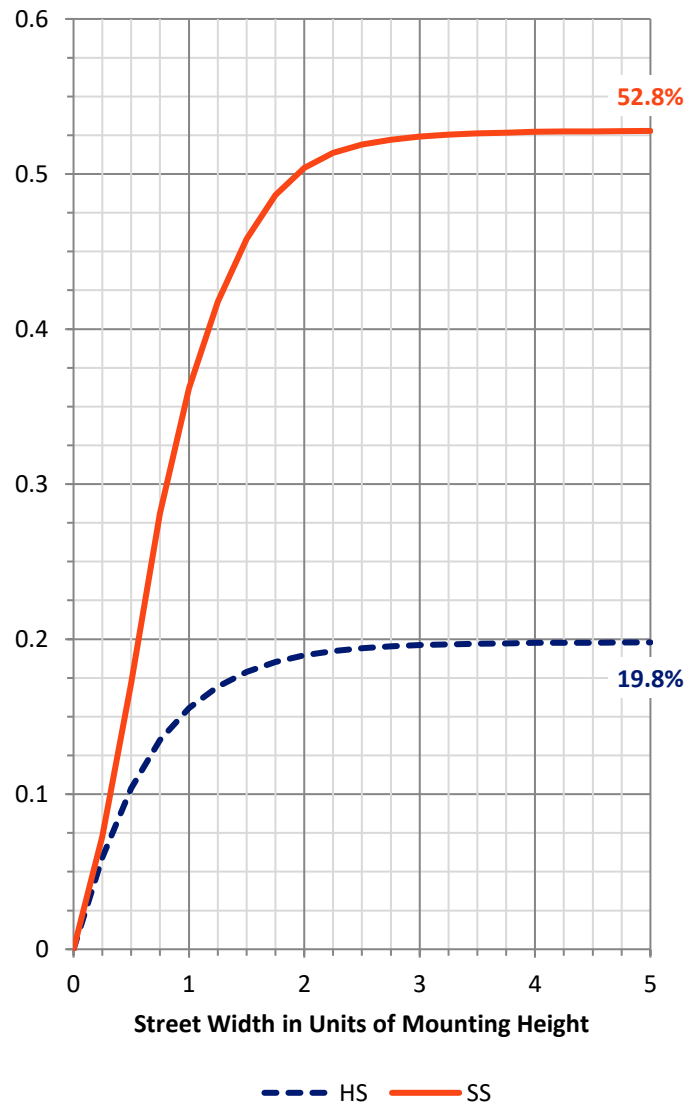
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3178.4	0.0	3178.4
	% Lamp	19.9	0.0	19.9
Street Side	Lumens	8451.3	0.0	8451.3
	% Lamp	52.8	0.0	52.8
Total	Lumens	11629.7	0.0	11629.7
	% Lamp	72.7	0.0	72.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	196.3	1.7	1.2
10°-20°	620.8	5.3	3.9
20°-30°	1177.9	10.1	7.4
30°-40°	1778.6	15.3	11.1
40°-50°	2231.0	19.2	13.9
50°-60°	2036.2	17.5	12.7
60°-70°	2335.0	20.1	14.6
70°-80°	1236.1	10.6	7.7
80°-90°	17.9	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°	11629.7	100.0	72.7
0°-180°	11629.7	100.0	72.7

Coefficient of Utilization

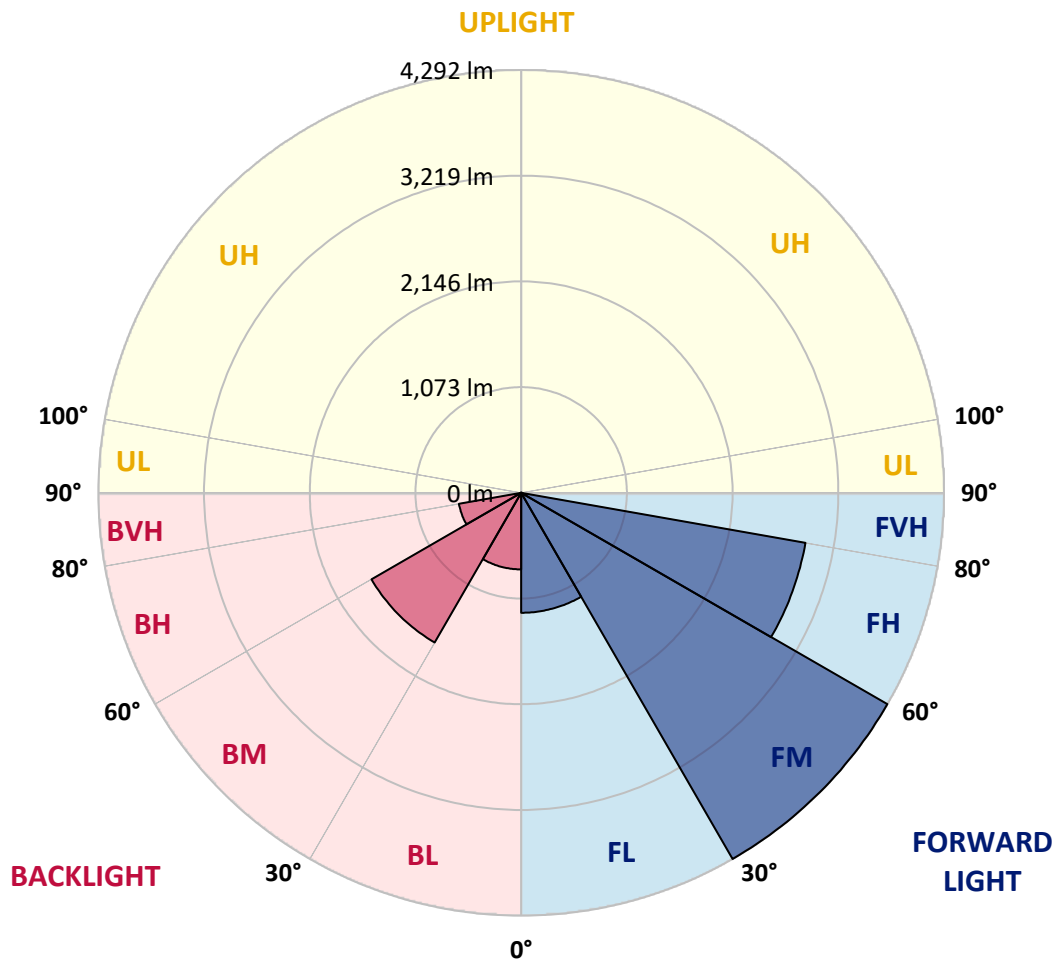


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1217.6	7.6			
FM	(30°-60°)	4291.9	26.8			
FH	(60°-80°)	2929.8	18.3			G2/5000
FVH	(80°-90°)	12.0	0.1			G1/100
BL	(0°-30°)	777.4	4.9	B2/1000		
BM	(30°-60°)	1753.8	11.0	B2/2500		
BH	(60°-80°)	641.3	4.0	B2/1000		G2/1000
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4370.3	27.3			

BUG Rating: B2-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
2.5°	2055	2044	2071	2049	2071	2055	2028	1974	2017	2006	2006
5°	2120	2109	2114	2125	2114	2104	2071	2066	2060	2039	2044
7.5°	2163	2174	2163	2179	2163	2136	2136	2093	2093	2077	2071
10°	2228	2250	2250	2239	2250	2223	2212	2179	2141	2125	2098
12.5°	2358	2369	2390	2347	2336	2336	2271	2233	2185	2152	2120
15°	2563	2558	2531	2487	2433	2406	2325	2282	2217	2147	2125
17.5°	2855	2861	2790	2709	2585	2460	2417	2325	2250	2163	2114
20°	3299	3315	3196	2985	2796	2563	2466	2320	2282	2195	2125
22.5°	4131	4142	3921	3466	3055	2715	2515	2369	2304	2223	2163
25°	5072	5034	4737	4191	3477	2947	2601	2412	2314	2223	2174
27.5°	5537	5591	5245	4872	4083	3277	2774	2493	2336	2217	2163
30°	5635	5716	5445	5105	4553	3672	3023	2590	2336	2201	2136
32.5°	5602	5613	5440	5072	4742	4094	3466	2763	2401	2228	2158
35°	5418	5359	5153	4980	4748	4494	3883	3044	2677	2304	2185
37.5°	5018	4921	4694	4629	4634	4894	4304	3499	3163	2406	2255
40°	4250	4153	4094	4256	4824	5440	5002	4391	3553	2655	2385
42.5°	3277	3169	3309	3926	5180	6094	6127	5505	4169	2877	2542
45°	2563	2482	2671	3677	5332	6121	6181	6327	4321	2931	2612
47.5°	2131	2120	2282	3461	4921	5126	5467	6457	3915	2947	2628
50°	1936	1914	2087	3077	4088	4153	4726	5856	3969	3012	2590
52.5°	1925	1779	1860	2525	3147	3504	4288	5110	4321	3039	2590
55°	2033	1687	1574	1990	2406	3131	3818	4964	4315	3001	2536
57.5°	2174	1579	1379	1676	2141	2861	3461	5408	3850	2909	2444
60°	2358	1487	1287	1520	2163	3153	3272	6159	3802	3001	2390
62.5°	1882	1390	1190	1357	2077	4223	3531	7819	4191	2547	2131
65°	1125	1000	1011	1141	1633	4402	4780	11848	3931	2109	1963
67.5°	811	800	860	990	1363	3558	7765	16023	4337	1709	1352
70°	671	671	730	854	1195	2390	11837	18797	4623	687	465
72.5°	530	525	589	730	995	1438	11588	14195	4099	519	319
75°	314	303	351	476	541	535	5348	5640	2460	449	254
77.5°	97	87	87	114	103	297	1011	1503	963	292	173
80°	43	32	27	27	54	97	151	270	249	124	81
82.5°	11	11	5	11	11	22	49	49	49	43	32
85°	0	0	0	0	0	0	11	16	5	5	0
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°	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
2.5°	2006	1995	2001	1968	1990	1963	1979	1963	1893	1958
5°	2039	2039	2012	1979	1979	1958	1941	1936	1860	1893
7.5°	2077	2093	2087	2033	2017	1974	1898	1893	1828	1849
10°	2104	2120	2158	2109	2087	2001	1914	1866	1774	1839
12.5°	2120	2114	2163	2131	2125	2017	1925	1855	1763	1828
15°	2098	2060	2071	2087	2060	1974	1876	1822	1747	1774
17.5°	2082	2012	1979	1985	1990	1887	1785	1779	1736	1752
20°	2082	1985	1925	1887	1882	1774	1703	1703	1687	1741
22.5°	2109	1979	1882	1817	1774	1666	1639	1622	1622	1709
25°	2114	2001	1871	1790	1703	1606	1563	1536	1557	1622
27.5°	2120	2012	1882	1779	1676	1568	1487	1482	1471	1525
30°	2093	1979	1855	1741	1633	1509	1417	1395	1352	1428
32.5°	2087	1958	1844	1714	1601	1455	1374	1314	1260	1319
35°	2104	1947	1822	1720	1557	1422	1309	1244	1179	1211
37.5°	2152	1963	1833	1709	1536	1379	1249	1184	1103	1136
40°	2228	1985	1876	1720	1509	1336	1200	1114	1044	1071
42.5°	2298	2012	1887	1720	1482	1287	1157	1060	990	1027
45°	2385	2039	1866	1698	1444	1244	1114	1011	957	984
47.5°	2423	2060	1876	1687	1411	1206	1033	973	946	973
50°	2417	2071	1914	1682	1395	1179	995	968	995	1038
52.5°	2352	2060	1936	1687	1368	1130	957	968	1065	1103
55°	2239	2049	1914	1655	1330	1082	914	957	1065	1114
57.5°	2120	2022	1876	1595	1298	1038	849	919	1033	1082
60°	2001	1952	1844	1541	1260	1011	838	860	973	1038
62.5°	1876	1839	1801	1509	1222	963	800	790	952	1157
65°	1752	1709	1698	1455	1168	892	735	708	1044	1460
67.5°	1017	773	779	725	525	481	465	460	1082	1666
70°	319	362	622	622	292	178	178	249	865	1460
72.5°	238	314	681	584	216	119	114	173	508	822
75°	189	270	562	406	135	76	70	97	233	314
77.5°	124	178	287	200	76	49	38	49	92	108
80°	65	76	103	76	38	22	22	27	38	43
82.5°	22	22	27	22	11	11	11	11	11	22
85°	0	5	0	0	0	0	0	0	0	0
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)