

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: 767382_150MP

Luminaire Tested: **OVH15PXX2D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 767382_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVH15PXX2D
Description: 175W MH TYPE II ROADWAY
Light Source: 150 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 10694.7 lumens
Efficiency: 76.4%
Efficacy: 57.8 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

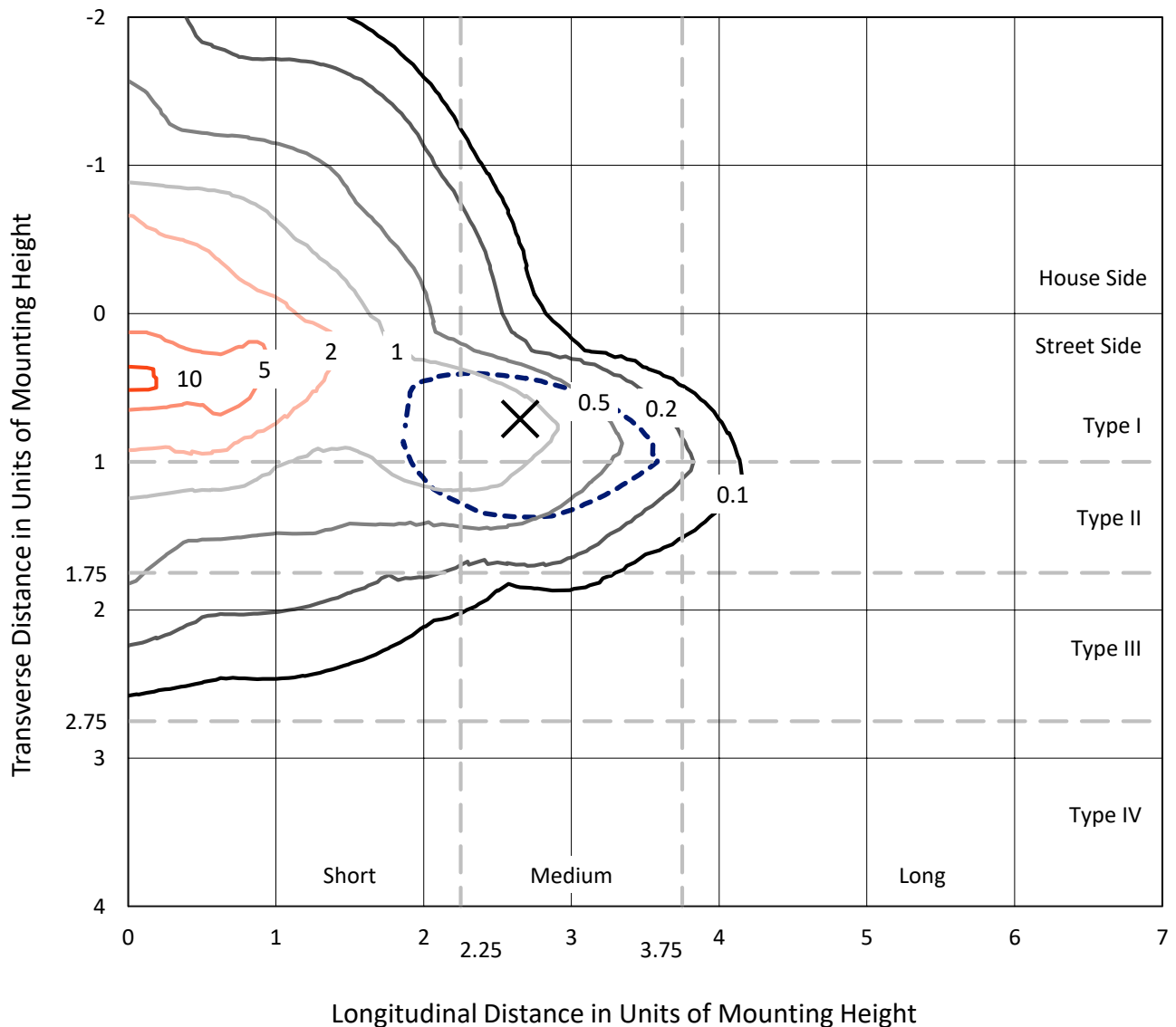
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

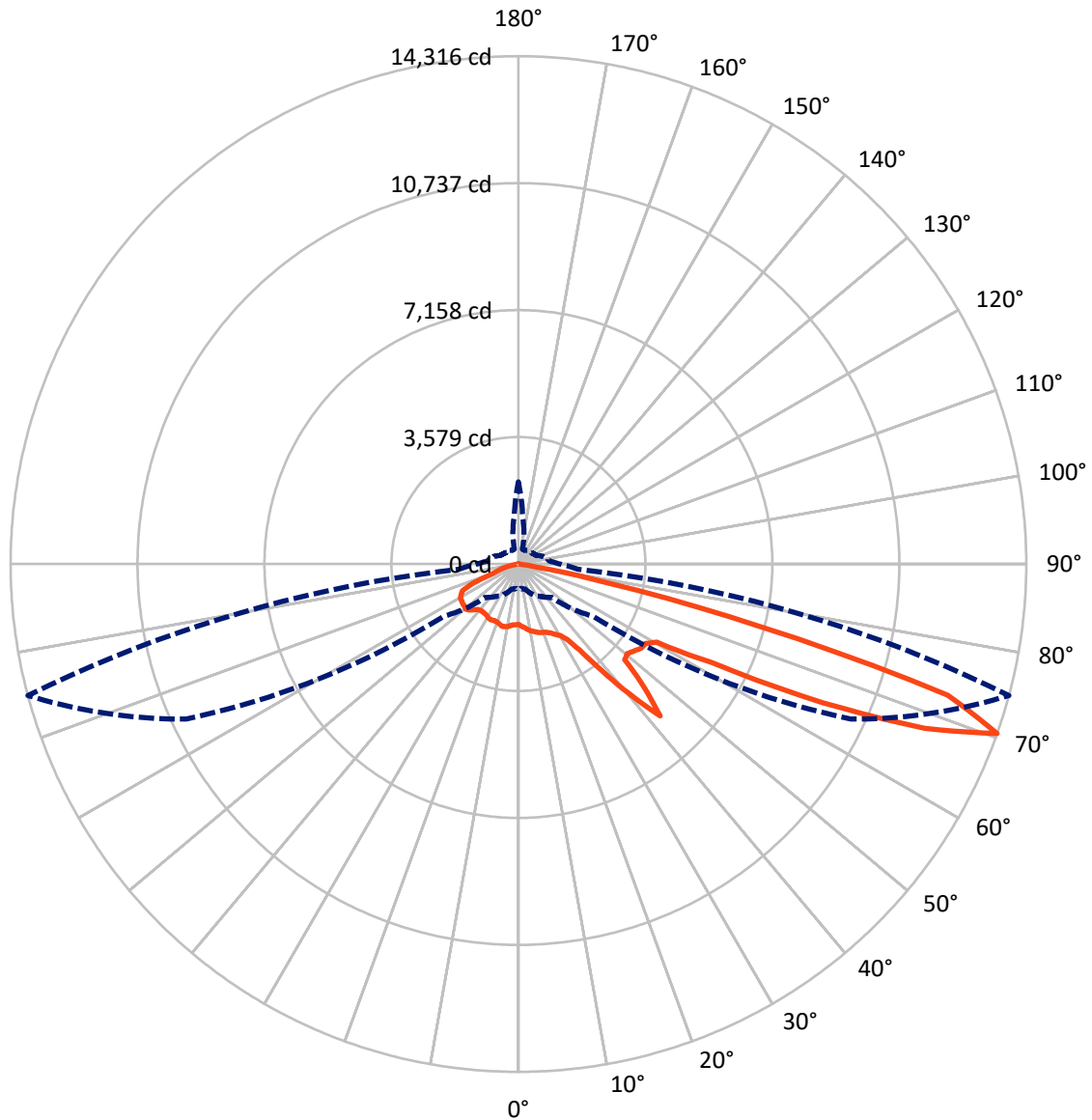
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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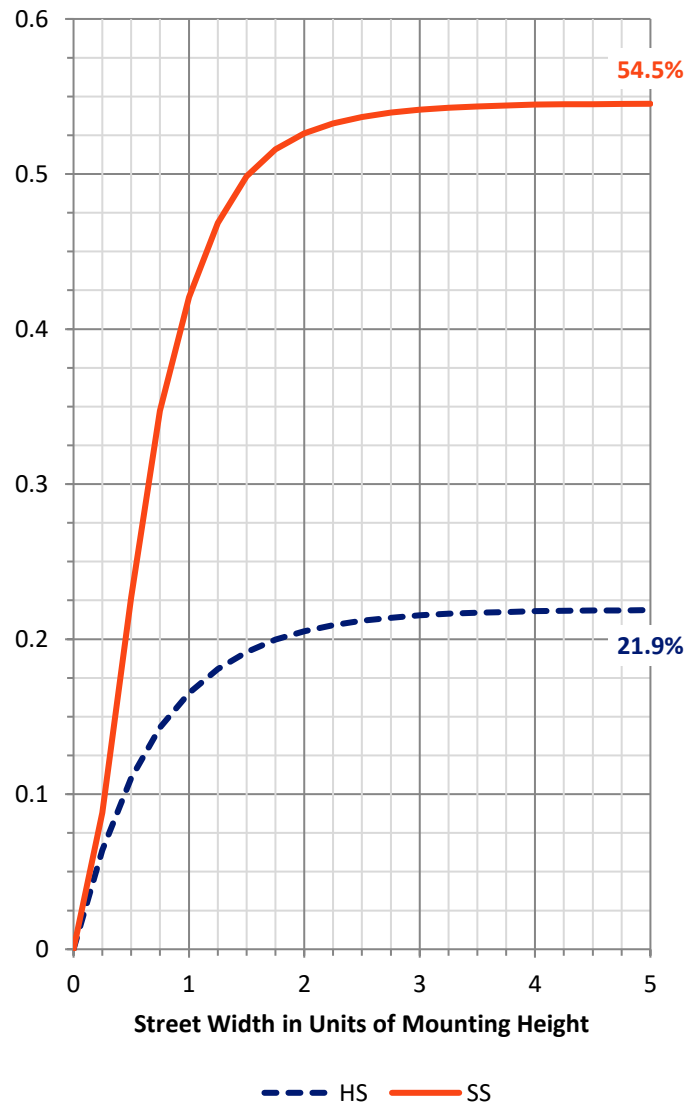
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3071.9	0.0	3071.9
	% Lamp	21.9	0.0	21.9
Street Side	Lumens	7622.8	0.0	7622.8
	% Lamp	54.4	0.0	54.4
Total	Lumens	10694.7	0.0	10694.7
	% Lamp	76.4	0.0	76.4

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	171.7	1.6	1.2
10°-20°	599.3	5.6	4.3
20°-30°	1257.0	11.8	9.0
30°-40°	1604.9	15.0	11.5
40°-50°	1921.8	18.0	13.7
50°-60°	1813.2	17.0	13.0
60°-70°	2232.4	20.9	15.9
70°-80°	1069.2	10.0	7.6
80°-90°	25.3	0.2	0.2
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°	10694.7	100.0	76.4
0°-180°	10694.7	100.0	76.4

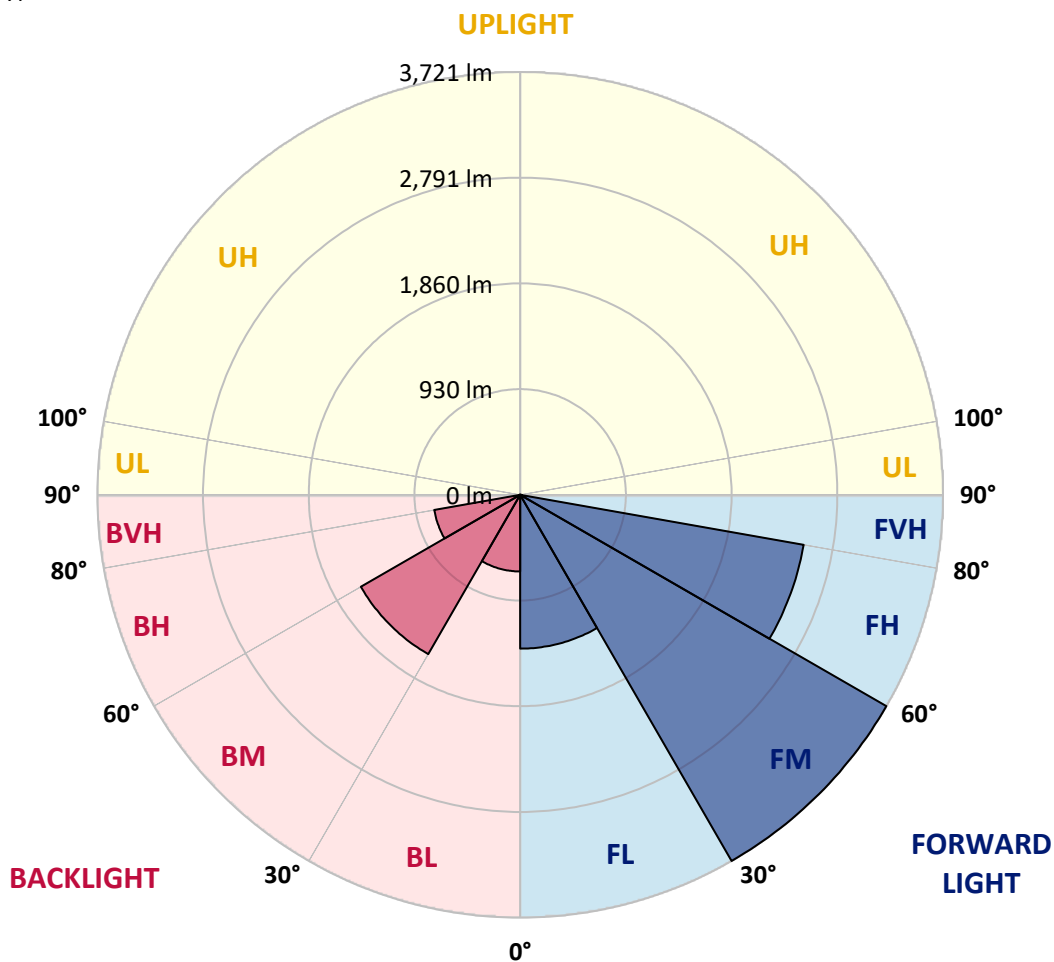


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.6	9.7			
FM (30°-60°)	3721.0	26.6			
FH (60°-80°)	2533.5	18.1			G2/5000
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	674.4	4.8	B2/1000		
BM (30°-60°)	1618.9	11.6	B2/2500		
BH (60°-80°)	768.0	5.5	B2/1000		G2/1000
BVH (80°-90°)	10.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	3305.3	23.6			

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°	1705	1705	1705	1705	1705	1705	1705	1705	1705	1705	1705
2.5°	1813	1819	1819	1807	1795	1789	1783	1687	1759	1741	1735
5°	1885	1885	1891	1885	1873	1849	1831	1705	1801	1777	1747
7.5°	2065	2035	2035	2023	2005	1957	1927	1777	1861	1849	1795
10°	2269	2257	2245	2209	2131	2083	2023	1867	1915	1897	1849
12.5°	2533	2551	2509	2425	2287	2203	2101	1945	1951	1903	1867
15°	3001	3013	2947	2761	2563	2341	2209	1987	1999	1915	1879
17.5°	3806	3794	3643	3325	2935	2419	2293	2029	2035	1927	1891
20°	4982	5030	4766	4160	3499	2719	2401	2095	2053	1957	1909
22.5°	5678	5888	5630	5132	4352	3157	2581	2167	2095	1993	1933
25°	6062	6200	5984	5660	5168	3758	2863	2311	2155	2005	1951
27.5°	5906	6032	6008	5942	5456	4256	3301	2521	2251	2035	1957
30°	4526	4658	5060	5678	5474	4538	3715	2923	2341	2071	1963
32.5°	3361	3337	3679	4538	4940	4814	4148	3319	2539	2197	2017
35°	2701	2617	2803	3283	4106	4874	4772	3685	2971	2479	2161
37.5°	2341	2269	2473	2701	3535	4796	5654	4322	3800	2701	2233
40°	2125	2113	2107	2485	3487	5420	6843	5828	4796	2935	2401
42.5°	2017	2005	2023	2623	3685	5774	6963	6945	5858	3013	2503
45°	1873	1873	1945	2503	3433	4700	5396	5810	4982	2929	2587
47.5°	1765	1759	1789	2101	2827	3109	4190	4172	4034	3037	2731
50°	1669	1651	1669	1837	2359	2593	3625	3896	3974	3463	2815
52.5°	1597	1567	1519	1789	2179	2305	3175	3739	4076	3992	2821
55°	1645	1561	1411	1705	2041	2155	2749	3794	4190	3914	2803
57.5°	1813	1567	1285	1543	1861	2161	2539	4490	4226	3559	2779
60°	1933	1561	1188	1429	1753	2377	2521	4352	4478	3265	2833
62.5°	1633	1429	1086	1327	1723	2497	2863	5444	6116	2755	2503
65°	1309	1170	966	1200	1519	2077	3800	7887	9418	2437	2263
67.5°	972	912	858	1086	1291	1621	3745	10048	12353	2275	1879
70°	720	690	732	942	1116	1333	2557	10336	14316	1675	1152
72.5°	516	510	600	810	954	978	1357	7269	12659	1381	744
75°	360	342	360	468	486	276	666	2905	7017	1074	528
77.5°	60	60	60	60	72	228	360	786	2479	660	354
80°	36	24	30	30	30	90	126	120	504	252	156
82.5°	12	12	12	12	12	24	42	36	96	72	48
85°	0	6	0	0	0	6	12	12	24	18	12
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°	1705	1705	1705	1705	1705	1705	1705	1705	1705	1705
2.5°	1729	1711	1717	1705	1705	1687	1687	1693	1681	1693
5°	1729	1717	1705	1687	1687	1651	1639	1633	1621	1609
7.5°	1777	1747	1729	1699	1675	1669	1633	1585	1567	1561
10°	1819	1789	1777	1735	1699	1681	1645	1573	1537	1537
12.5°	1837	1807	1765	1747	1723	1693	1615	1543	1489	1489
15°	1861	1813	1753	1771	1825	1723	1603	1513	1477	1465
17.5°	1867	1783	1699	1747	1939	1729	1405	1501	1483	1465
20°	1867	1747	1639	1639	1843	1723	1327	1453	1471	1465
22.5°	1885	1735	1591	1543	1633	1627	1248	1405	1477	1513
25°	1897	1741	1579	1489	1483	1453	1200	1351	1501	1549
27.5°	1897	1753	1573	1483	1411	1357	1224	1309	1501	1573
30°	1879	1735	1555	1471	1381	1309	1242	1242	1429	1549
32.5°	1903	1699	1531	1453	1369	1279	1194	1170	1309	1453
35°	1963	1687	1513	1435	1345	1242	1152	1104	1164	1236
37.5°	2005	1681	1507	1429	1339	1206	1092	1032	1056	1056
40°	2065	1687	1501	1423	1321	1176	1062	984	984	984
42.5°	2155	1723	1537	1441	1327	1170	1014	942	924	924
45°	2341	1813	1573	1453	1315	1152	996	900	882	876
47.5°	2485	1903	1573	1453	1303	1134	966	870	852	840
50°	2557	1957	1573	1459	1321	1128	948	870	882	888
52.5°	2569	1927	1573	1453	1279	1104	912	858	978	1032
55°	2533	1927	1585	1501	1291	1086	894	876	1146	1236
57.5°	2479	1909	1585	1519	1303	1062	852	870	1182	1297
60°	2419	1897	1561	1519	1303	1038	816	858	1164	1309
62.5°	2329	1825	1525	1465	1273	996	768	774	1188	1417
65°	2167	1753	1471	1399	1224	972	738	696	1309	1729
67.5°	1729	1387	1134	1140	1044	852	624	594	1417	2113
70°	888	768	564	510	462	468	426	438	1345	2317
72.5°	510	588	468	330	246	192	204	264	978	1885
75°	354	486	402	240	156	108	102	84	480	816
77.5°	222	306	252	144	96	78	66	42	192	276
80°	108	138	108	84	60	48	36	24	78	96
82.5°	42	48	42	30	30	24	18	6	30	36
85°	12	6	12	12	12	6	0	0	6	12
87.5°	0	0	0	0	0	0	0	6	0	0
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)