

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: P639025

Luminaire Tested: **USSL-M-C097-D-U-T2-BZ**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-C097-D-U-T2-BZ
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50348.9 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 346
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

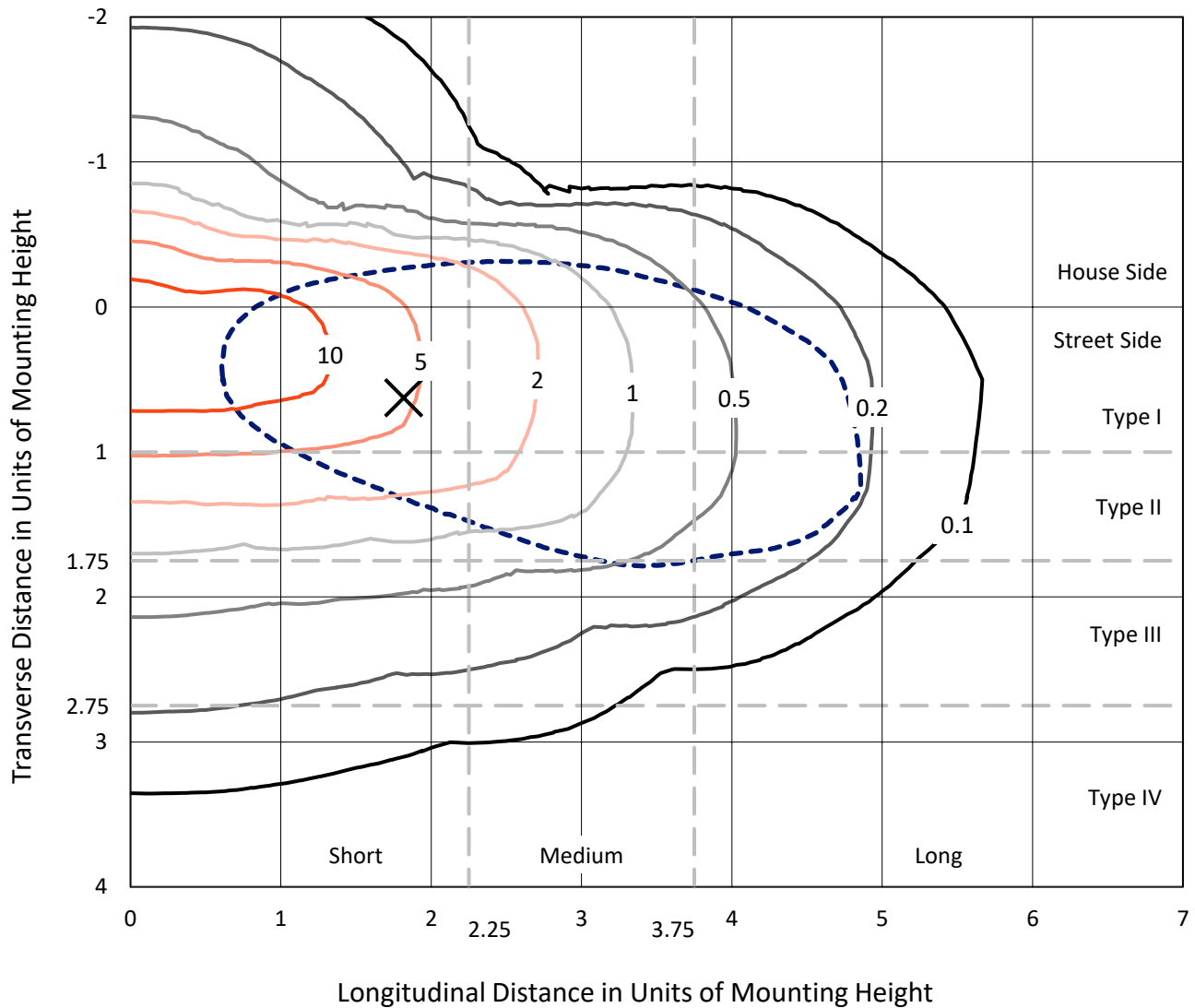


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

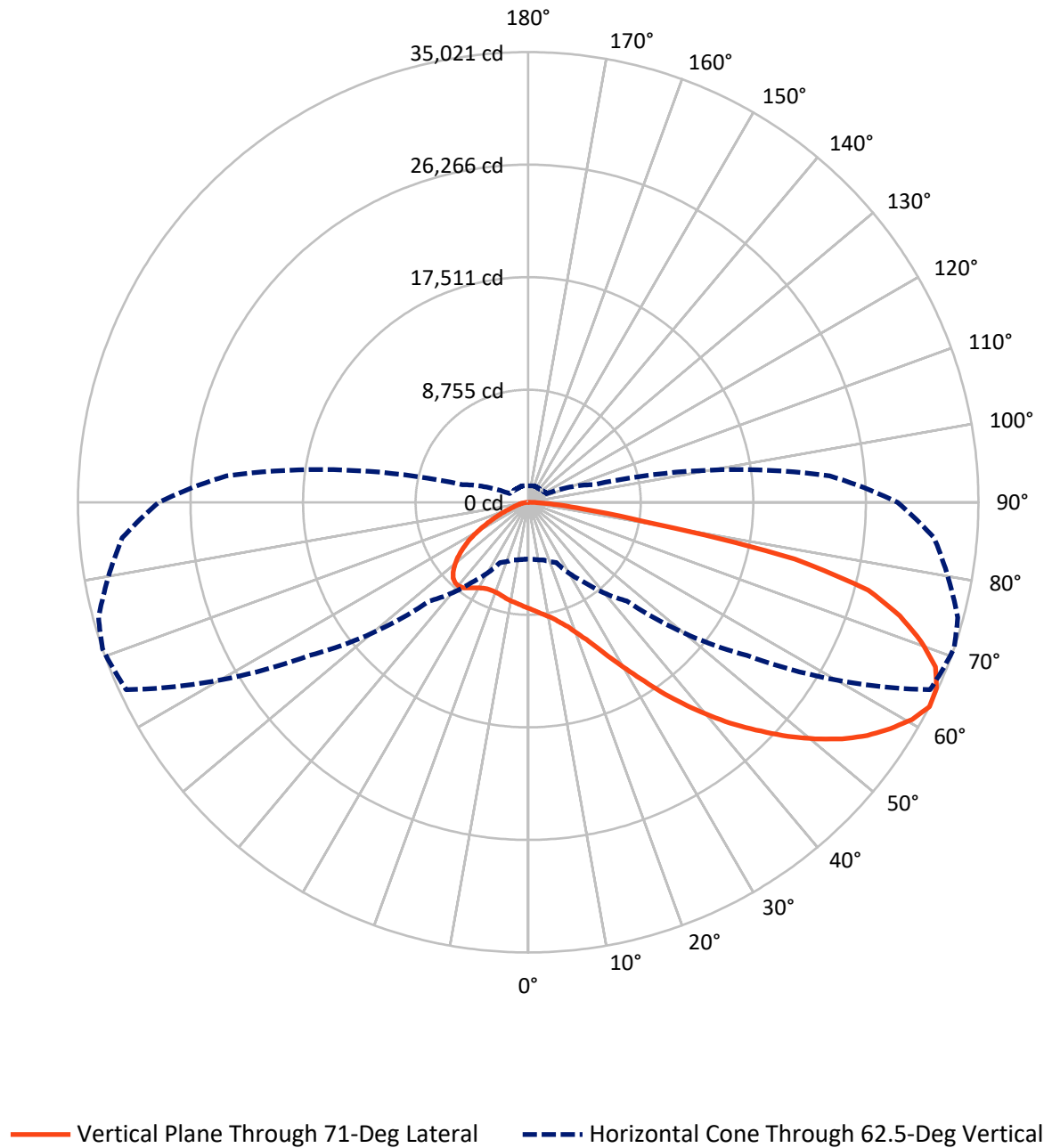


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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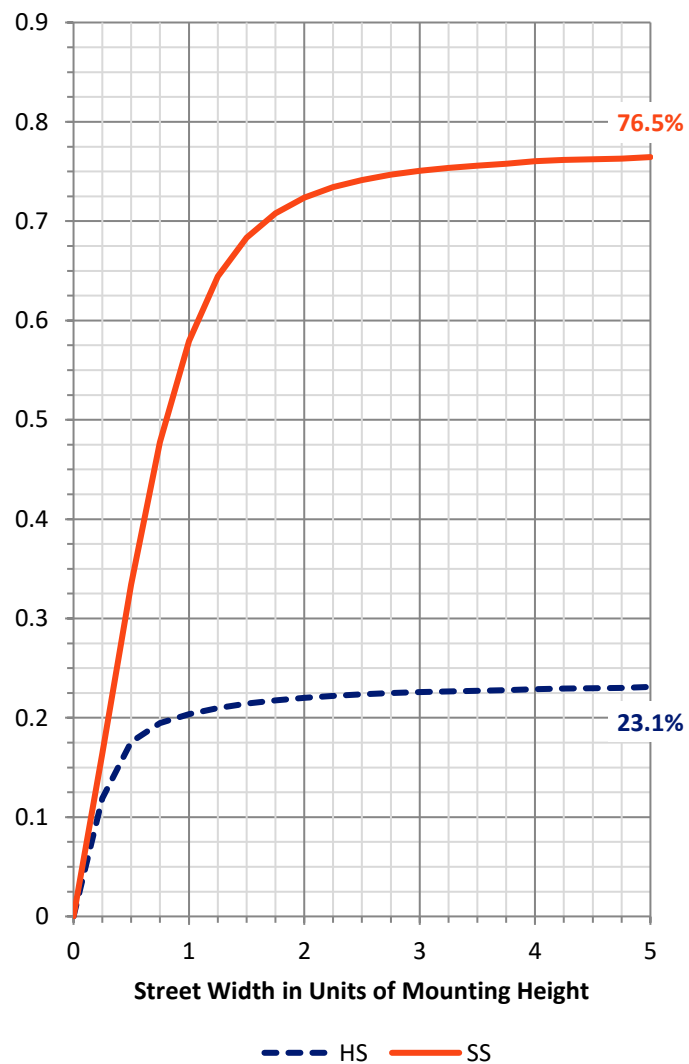
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11841.3	0.0	11841.3
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	38507.6	0.0	38507.6
	% Fixture	76.5	0.0	76.5
Total	Lumens	50348.9	0.0	50348.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.4	1.6
10°-20°	2447.1	4.9
20°-30°	4237.8	8.4
30°-40°	6308.5	12.5
40°-50°	8489.7	16.9
50°-60°	10046.6	20.0
60°-70°	10186.3	20.2
70°-80°	6799.3	13.5
80°-90°	1035.1	2.1
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°	50348.9	100.0
0°-180°	50348.9	100.0

Coefficient of Utilization



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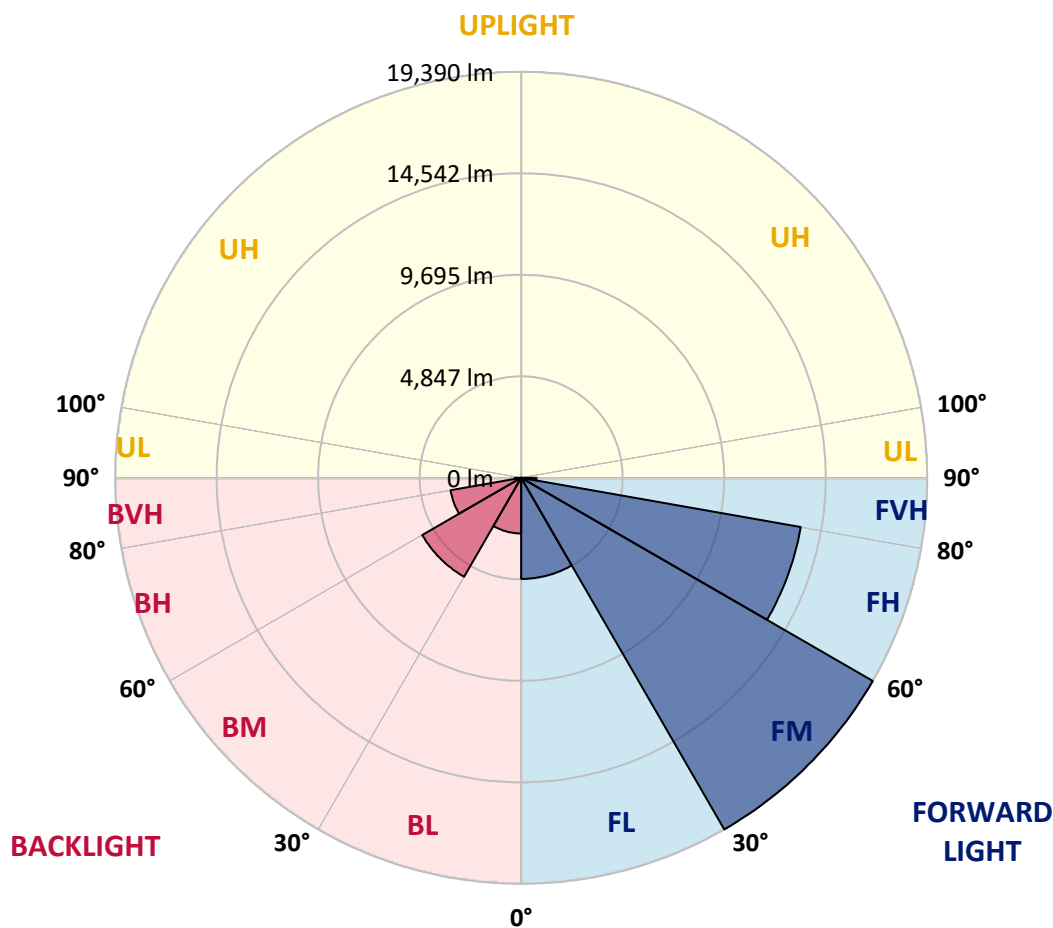
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4826.8	9.6			
FM	(30°-60°)	19389.8	38.5			
FH	(60°-80°)	13559.5	26.9			G5
FVH	(80°-90°)	731.5	1.5			G4/750
BL	(0°-30°)	2656.6	5.3	B4/5000		
BM	(30°-60°)	5455.0	10.8	B4/8500		
BH	(60°-80°)	3426.1	6.8	B4/5000		G4/5000
BVH	(80°-90°)	303.6	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8255	8255	8255	8255	8255	8255	8255	8255	8255	8255	8255
2.5°	8697	8679	8717	8697	8655	8582	8530	8486	8418	8389	8333
5°	9201	9209	9247	9160	9084	8952	8843	8729	8614	8542	8403
7.5°	9719	9737	9740	9661	9537	9379	9187	9012	8826	8736	8508
10°	10168	10182	10172	10129	9997	9787	9560	9295	9058	8928	8613
12.5°	10600	10629	10597	10523	10386	10178	9964	9643	9365	9189	8741
15°	11066	11051	11002	10898	10796	10625	10379	10088	9764	9530	8961
17.5°	11437	11471	11444	11348	11225	11058	10895	10587	10222	10002	9292
20°	11778	11803	11786	11739	11709	11602	11467	11209	10862	10574	9717
22.5°	12019	12057	12124	12179	12222	12199	12145	11996	11603	11352	10300
25°	12157	12195	12380	12581	12790	12913	12975	12955	12548	12312	11126
27.5°	12239	12286	12543	12912	13310	13624	13913	14007	13739	13510	12123
30°	12263	12314	12613	13115	13783	14382	14856	15240	15058	14761	13351
32.5°	12122	12174	12508	13217	14155	15122	15808	16522	16595	16321	14838
35°	11741	11812	12255	13184	14504	15861	16731	17875	18324	18093	16339
37.5°	11265	11296	11871	12979	14684	16454	17772	19507	20070	19880	17955
40°	10716	10740	11378	12621	14731	16947	18747	21066	21844	21514	19457
42.5°	9994	10141	10772	12165	14621	17313	19647	22920	23668	23427	20885
45°	9366	9410	10052	11449	14302	17595	20477	24535	25394	25142	22659
47.5°	8753	8753	9359	10638	13693	17702	21294	26210	27207	26916	24219
50°	7112	7432	8636	9945	12761	17513	22148	27964	28928	28641	25650
52.5°	5885	5922	6985	9172	11732	16920	22869	29852	30572	30139	27098
55°	5409	5425	5855	8020	10791	15915	23269	31441	32020	31534	28414
57.5°	5095	5133	5337	6451	9801	14376	23360	32926	33214	32673	29598
60°	4699	4728	5041	5657	8695	12411	22778	34049	34310	33797	30739
62.5°	4420	4447	4644	5171	7580	10853	20773	34499	35021	34592	31689
65°	4098	4137	4324	4795	6781	9744	19014	33891	34899	34777	32211
67.5°	3726	3755	3950	4351	5937	8896	17061	32883	34168	34212	31830
70°	3333	3343	3536	3855	4877	7865	14107	31199	32410	32403	30153
72.5°	2849	2884	3078	3374	4080	6596	11040	28234	30237	30362	27445
75°	2359	2390	2551	2830	3336	5342	7840	22654	27318	27660	23826
77.5°	1439	1499	1613	1924	2556	4197	5006	13479	21223	22498	18893
80°	637	878	1141	1310	1554	2835	2726	6041	9216	12482	12090
82.5°	196	252	715	842	928	1186	1264	2994	4256	4839	5485
85°	83	106	296	387	416	313	495	1346	1996	2266	2133
87.5°	22	25	80	112	115	100	129	453	668	779	675
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°	8255	8255	8255	8255	8255	8255	8255	8255	8255	8255	8255
2.5°	8293	8236	8167	8071	7997	7929	7903	7828	7802	7809	7797
5°	8316	8224	8059	7891	7742	7622	7553	7464	7449	7448	7402
7.5°	8375	8237	7979	7739	7532	7367	7250	7149	7128	7126	7092
10°	8431	8243	7924	7621	7334	7110	6952	6836	6787	6760	6720
12.5°	8508	8260	7859	7486	7144	6854	6665	6509	6445	6388	6379
15°	8659	8333	7790	7303	6931	6568	6320	6169	6098	6026	5986
17.5°	8895	8476	7750	7125	6661	6260	5948	5792	5668	5608	5583
20°	9196	8698	7759	6955	6363	5921	5532	5347	5190	5157	5112
22.5°	9667	9029	7832	6807	6094	5542	5113	4827	4637	4609	4607
25°	10316	9504	7946	6657	5751	5136	4618	4261	4066	3995	3999
27.5°	11189	10202	8170	6522	5379	4583	3984	3655	3456	3393	3371
30°	12227	11031	8509	6378	4938	3912	3348	3068	2865	2801	2794
32.5°	13510	12091	8948	6195	4434	3252	2806	2552	2349	2212	2240
35°	14972	13295	9472	6022	3835	2751	2382	2072	1866	1790	1788
37.5°	16311	14391	10001	5816	3299	2394	1931	1704	1566	1497	1506
40°	17623	15515	10436	5496	2742	1993	1523	1443	1405	1371	1373
42.5°	18947	16605	10738	5027	2321	1614	1301	1360	1401	1390	1378
45°	20274	17684	10939	4369	1933	1348	1267	1364	1430	1442	1430
47.5°	21767	18715	10960	3502	1647	1308	1283	1340	1449	1478	1459
50°	23286	19698	10722	2667	1528	1340	1317	1310	1417	1448	1436
52.5°	24556	20555	10169	2110	1493	1381	1382	1311	1367	1404	1421
55°	25877	21600	9215	1847	1497	1399	1437	1342	1346	1336	1354
57.5°	26980	22371	8093	1754	1500	1417	1429	1362	1363	1309	1280
60°	27980	23132	6743	1668	1493	1420	1396	1383	1366	1318	1289
62.5°	28729	23554	5317	1600	1471	1403	1343	1360	1331	1283	1285
65°	29041	23439	3999	1517	1436	1381	1304	1296	1273	1222	1226
67.5°	28416	22263	2909	1391	1381	1345	1265	1233	1201	1166	1182
70°	26578	20064	2037	1207	1292	1287	1233	1197	1149	1095	1105
72.5°	23592	17327	1392	1001	1132	1205	1178	1144	1056	912	889
75°	19724	13831	1024	790	917	1070	1040	1005	990	1193	1189
77.5°	15315	9470	815	632	742	784	903	991	1492	1288	1242
80°	9348	5599	659	469	494	550	768	1221	1406	857	807
82.5°	4686	2726	519	318	342	309	551	1410	992	490	457
85°	1686	863	235	154	152	94	311	1098	638	367	345
87.5°	433	158	32	19	13	12	78	547	278	178	146
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)