

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: McGRAW-EDISON

Report Number: P232695

Luminaire Tested: **CTN-6-3-D-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-6-3-D-E1-T3
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31240.9 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G4

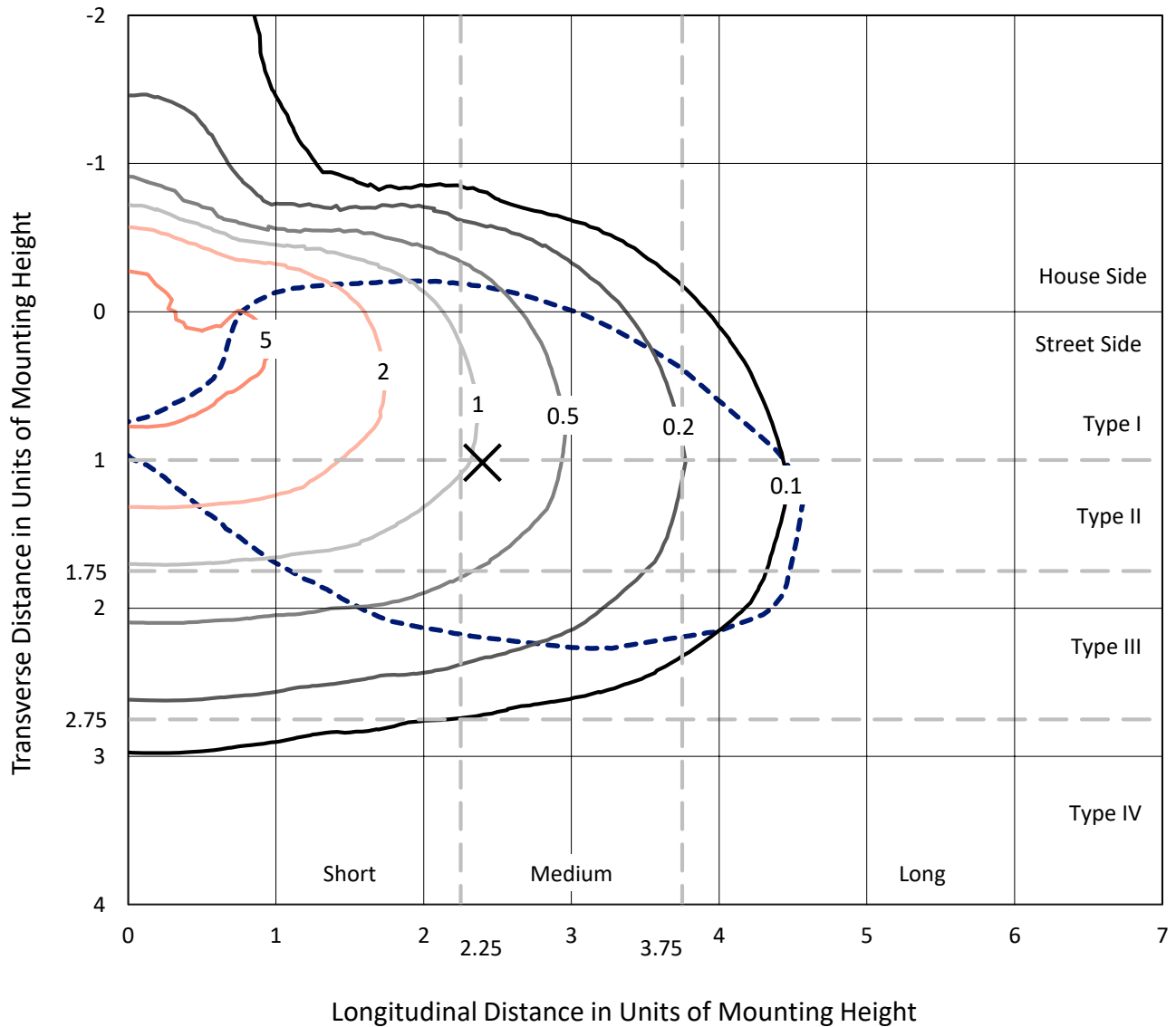
Input Watts (W): 234
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

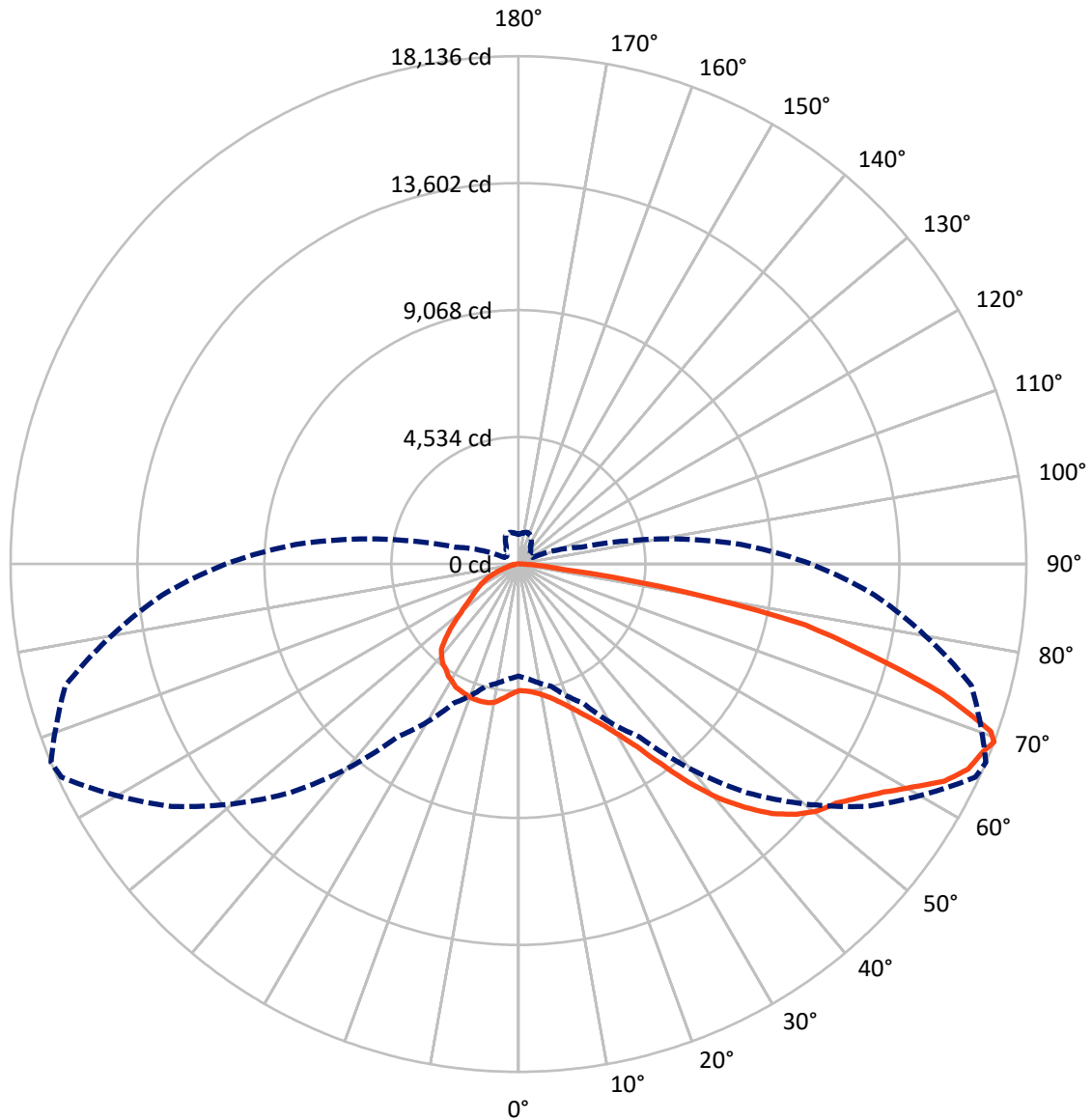
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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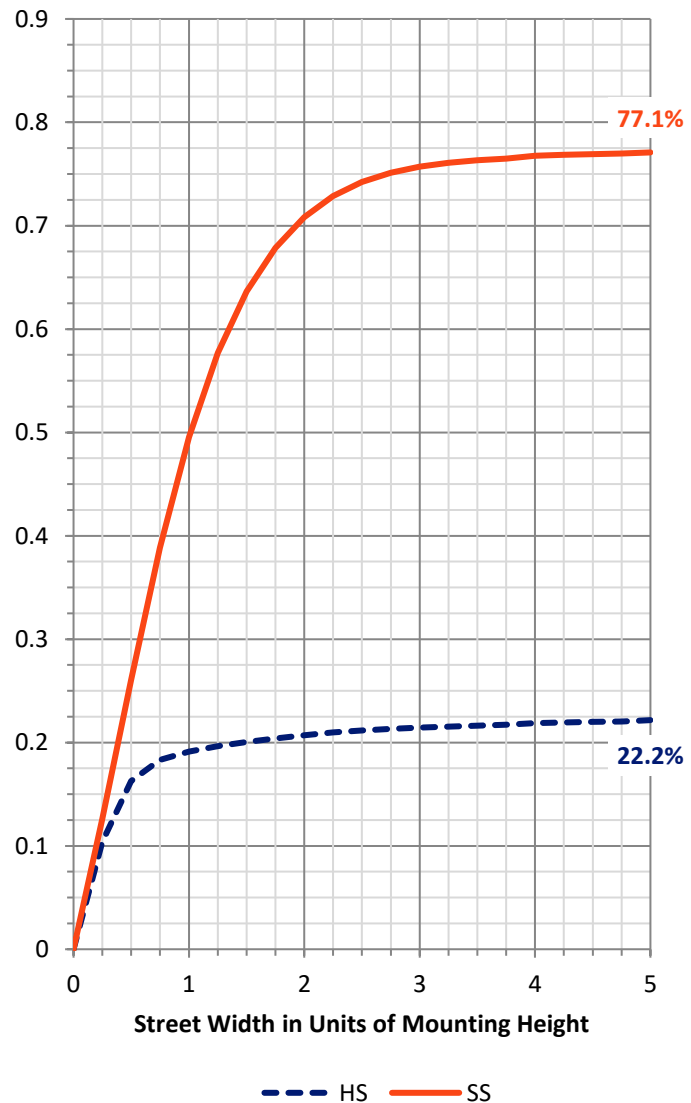
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7106.6	0.0	7106.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	24134.3	0.0	24134.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	31240.9	0.0	31240.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.9	1.5
10°-20°	1474.0	4.7
20°-30°	2563.2	8.2
30°-40°	3861.2	12.4
40°-50°	5332.7	17.1
50°-60°	6364.6	20.4
60°-70°	6703.1	21.5
70°-80°	3932.1	12.6
80°-90°	551.1	1.8
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°	31240.9	100.0
0°-180°	31240.9	100.0



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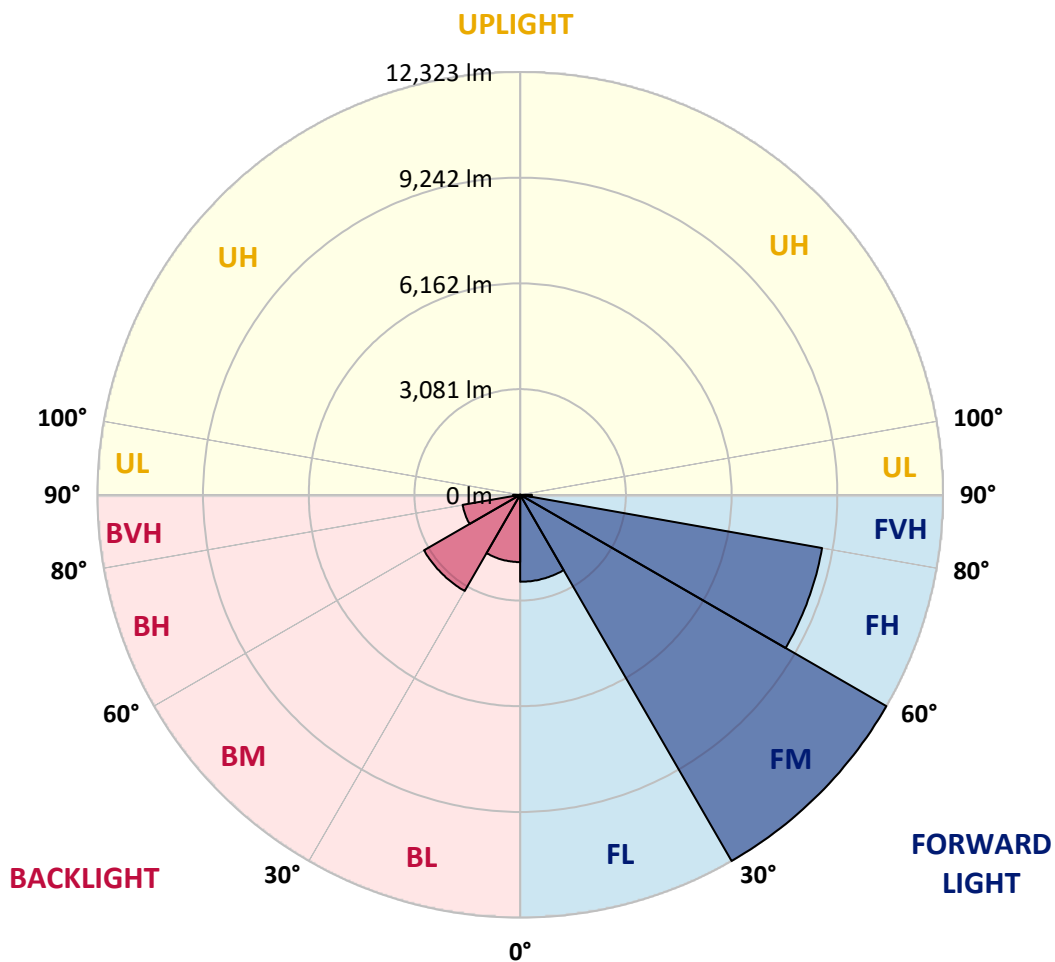
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2535.2	8.1			
FM	(30°-60°)	12323.1	39.4			
FH	(60°-80°)	8933.6	28.6			G4/12000
FVH	(80°-90°)	342.5	1.1			G3/500
BL	(0°-30°)	1961.0	6.3	B3/2500		
BM	(30°-60°)	3235.4	10.4	B3/5000		
BH	(60°-80°)	1701.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	208.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4521	4521	4521	4521	4521	4521	4521	4521	4521	4521	4521
2.5°	4540	4546	4540	4530	4497	4512	4499	4541	4538	4522	4551
5°	4646	4653	4640	4632	4581	4588	4560	4583	4575	4548	4593
7.5°	4819	4826	4810	4799	4727	4711	4660	4667	4652	4609	4661
10°	5052	5058	5031	5004	4912	4873	4788	4774	4752	4710	4763
12.5°	5303	5312	5279	5244	5137	5073	4952	4909	4882	4831	4889
15°	5572	5583	5549	5509	5391	5292	5141	5076	5050	4986	5022
17.5°	5925	5922	5894	5839	5698	5553	5367	5270	5252	5190	5199
20°	6334	6320	6294	6218	6065	5885	5642	5519	5501	5449	5394
22.5°	6778	6764	6739	6642	6491	6255	5964	5819	5795	5730	5638
25°	7215	7200	7186	7094	6947	6679	6329	6144	6133	6067	5898
27.5°	7669	7660	7664	7585	7438	7160	6763	6562	6543	6459	6229
30°	8136	8138	8176	8092	7957	7677	7283	7078	7081	7006	6670
32.5°	8554	8556	8641	8599	8525	8246	7884	7740	7769	7763	7419
35°	8856	8869	9059	9116	9088	8845	8627	8662	8754	9014	8653
37.5°	9140	9145	9388	9520	9624	9478	9434	9766	9911	10271	9737
40°	9222	9291	9598	9782	10024	10096	10319	10810	10981	11198	10467
42.5°	9147	9245	9630	10067	10403	10760	11169	11725	11880	12014	11166
45°	8990	9065	9465	10119	10728	11436	11908	12574	12714	12627	11712
47.5°	8781	8838	9284	10036	10988	12042	12585	13255	13357	13154	12083
50°	8491	8559	9057	9922	11179	12549	13129	13767	13853	13482	12447
52.5°	8133	8218	8797	9728	11322	12927	13509	14108	14195	13954	12735
55°	7727	7845	8441	9492	11332	13128	13746	14608	14732	14472	12987
57.5°	7315	7391	8022	9131	11144	13195	14030	15190	15371	14974	13262
60°	6812	6885	7510	8648	10769	13298	14598	16023	16167	15559	13496
62.5°	6217	6300	6867	7987	10214	13340	15177	16909	17074	16091	13631
65°	5461	5553	6070	7187	9421	13042	15427	17564	17649	16499	13573
67.5°	4635	4711	5123	6192	8324	12265	15296	17806	17892	16776	13226
69°	4003	4120	4516	5483	7535	11554	15096	18005	18136	16745	12770
70°	3497	3628	3986	4858	6865	10816	14724	17854	17891	16446	12359
72.5°	2210	2253	2416	2996	4830	8408	12885	15850	15840	14673	10789
75°	1092	1148	1457	1682	2380	5408	10142	13018	13020	12384	8870
77.5°	656	680	759	1084	1360	2427	6884	10306	10464	10079	6383
80°	452	440	463	533	732	1276	2830	5826	5997	5531	2719
82.5°	356	346	353	371	349	591	1197	1742	1691	1491	1045
85°	249	229	242	235	208	347	582	724	719	743	569
87.5°	79	70	72	70	58	123	209	282	260	264	200
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°	4521	4521	4521	4521	4521	4521	4521	4521	4521	4521	4521
2.5°	4558	4550	4559	4606	4595	4636	4646	4713	4716	4710	4740
5°	4614	4622	4656	4731	4756	4844	4884	4966	4974	4977	5006
7.5°	4695	4709	4782	4880	4927	5042	5102	5203	5210	5221	5254
10°	4815	4835	4893	5027	5042	5133	5188	5275	5269	5284	5314
12.5°	4936	4947	4991	5083	5073	5162	5186	5243	5239	5238	5260
15°	5066	5047	5053	5088	5051	5106	5089	5131	5076	5054	5069
17.5°	5204	5158	5099	5073	5003	4994	4936	4916	4878	4866	4878
20°	5368	5270	5127	5052	4899	4820	4709	4644	4556	4563	4580
22.5°	5535	5397	5181	4980	4764	4604	4383	4324	4209	4175	4209
25°	5740	5555	5208	4916	4560	4275	4051	3842	3755	3670	3702
27.5°	6009	5759	5306	4837	4329	3949	3593	3323	3215	3124	3130
30°	6358	6032	5343	4671	4051	3502	3054	2754	2619	2582	2566
32.5°	7003	6472	5409	4550	3705	3016	2466	2144	2059	2075	2127
35°	8146	7393	5609	4297	3323	2486	1916	1667	1681	1710	1704
37.5°	9132	8224	5942	4119	2856	1883	1447	1315	1399	1456	1454
40°	9802	8830	6378	3786	2266	1342	1065	992	1099	1221	1242
42.5°	10467	9381	6589	3491	1591	947	771	790	927	1042	1063
45°	10945	9781	6682	2965	1016	725	673	743	891	982	992
47.5°	11296	10082	6581	2399	748	663	664	753	902	1005	1009
50°	11606	10294	6174	1871	673	642	677	782	934	1038	1035
52.5°	11818	10356	5680	1533	652	630	688	809	944	1014	1008
55°	11959	10263	5300	1262	634	629	706	843	954	982	968
57.5°	12046	10075	4979	1085	619	629	726	856	991	1042	1026
60°	12020	9991	4544	940	598	631	737	875	1140	1260	1263
62.5°	11968	9827	4119	825	573	643	751	985	1400	1401	1351
65°	11721	9333	3501	721	547	646	754	1166	1570	1438	1373
67.5°	11041	8610	2778	624	518	628	751	1141	1268	1135	1102
69°	10448	7983	2321	566	497	610	754	1094	1174	1095	1065
70°	10016	7475	1972	531	478	601	754	1077	1161	1086	1057
72.5°	8597	5872	1182	443	423	566	747	1051	1171	1107	1069
75°	6586	4271	688	364	356	508	710	1035	1205	1108	1025
77.5°	4220	1971	513	296	289	440	663	983	1238	1162	1057
80°	1466	894	383	234	224	360	581	886	1179	1187	1108
82.5°	804	589	271	174	165	226	452	764	1091	1175	1181
85°	442	332	178	112	126	194	313	594	878	1021	1066
87.5°	179	120	70	44	52	77	106	304	530	684	753
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)