

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: 766728

Luminaire Tested: **GPF91SXX77**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766728
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GPF91SXX77
Description: 250W MH 7H X 7V FLOOD
Light Source: 1000W HPS CL E-25
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 83641.1 lumens
Efficiency: 59.7%
Efficacy: 83.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')

NEMA Type: 6H x 7V
Max Intensity: 28882 candela
Max Intensity Angle: 0°H x -55°V

Beam Angle (50%): 92.6°H x 132.9°V
Beam Lumens: 68876.3 lumens
Beam Efficiency: 82.3%

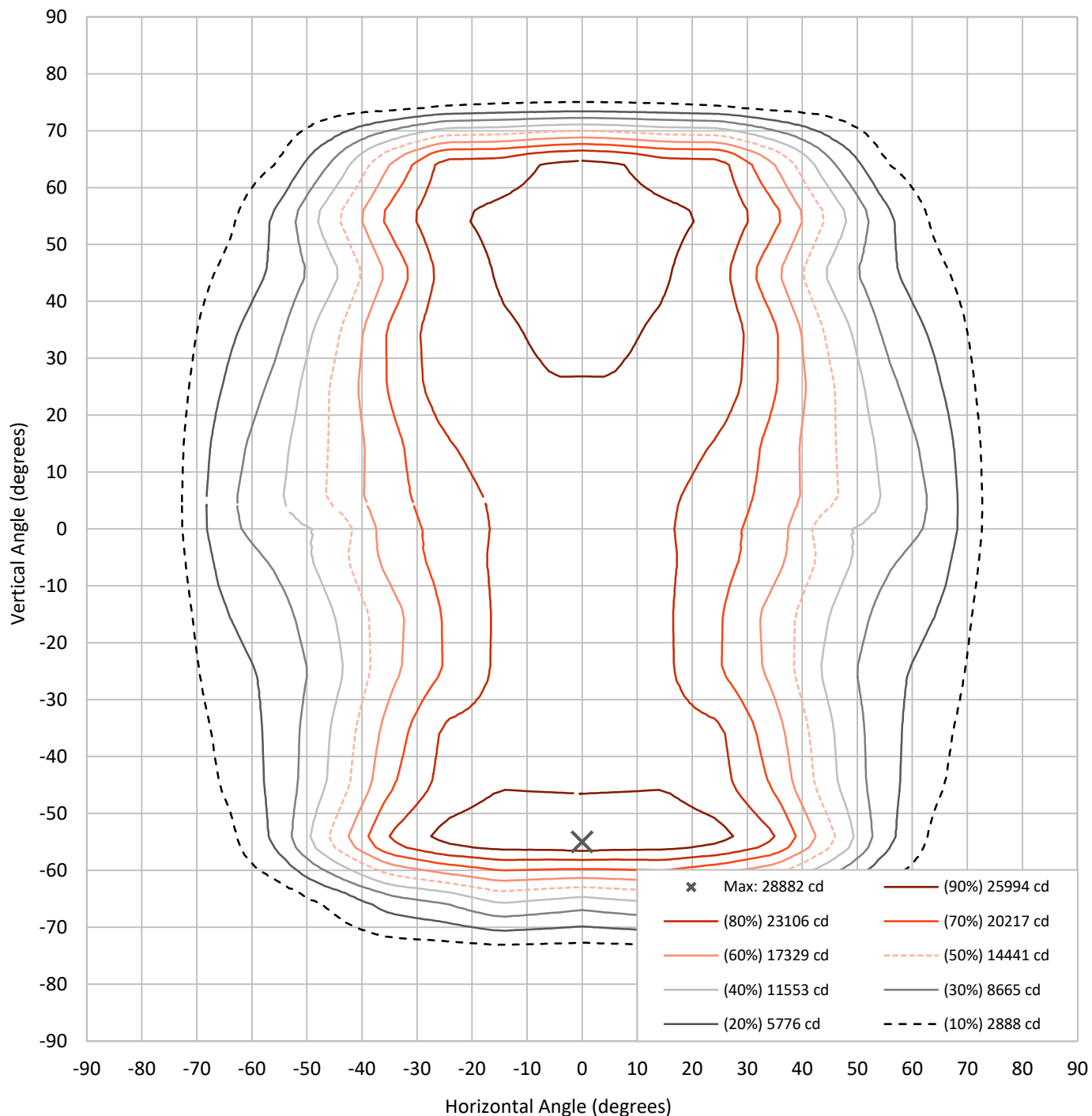
Field Angle (10%): 125.1°H x 147.3°V
Field Lumens: 82835.5 lumens
Field Efficiency: 99.0%

Input Watts (W): 1000
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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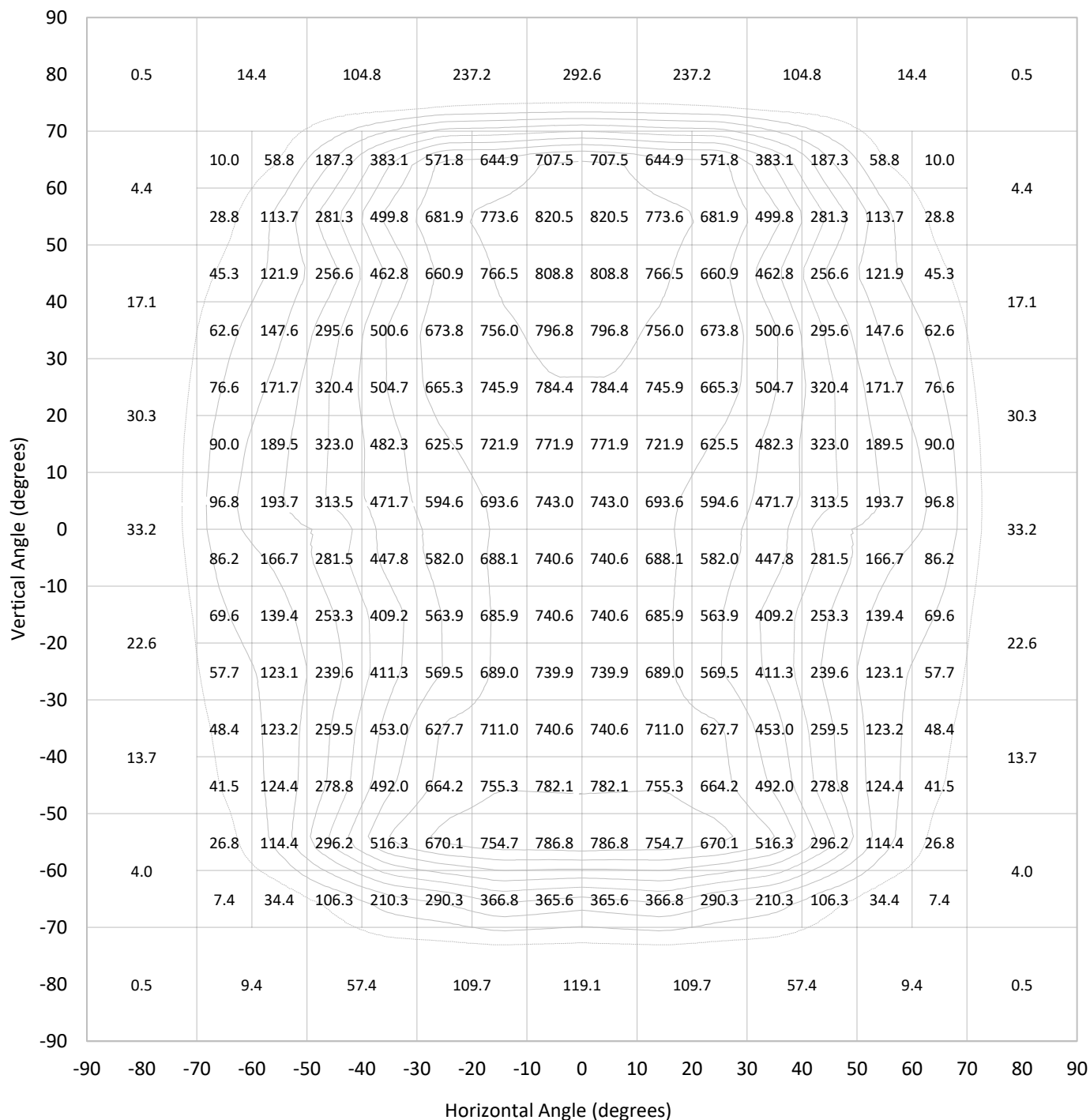
Iso-Candela Plot





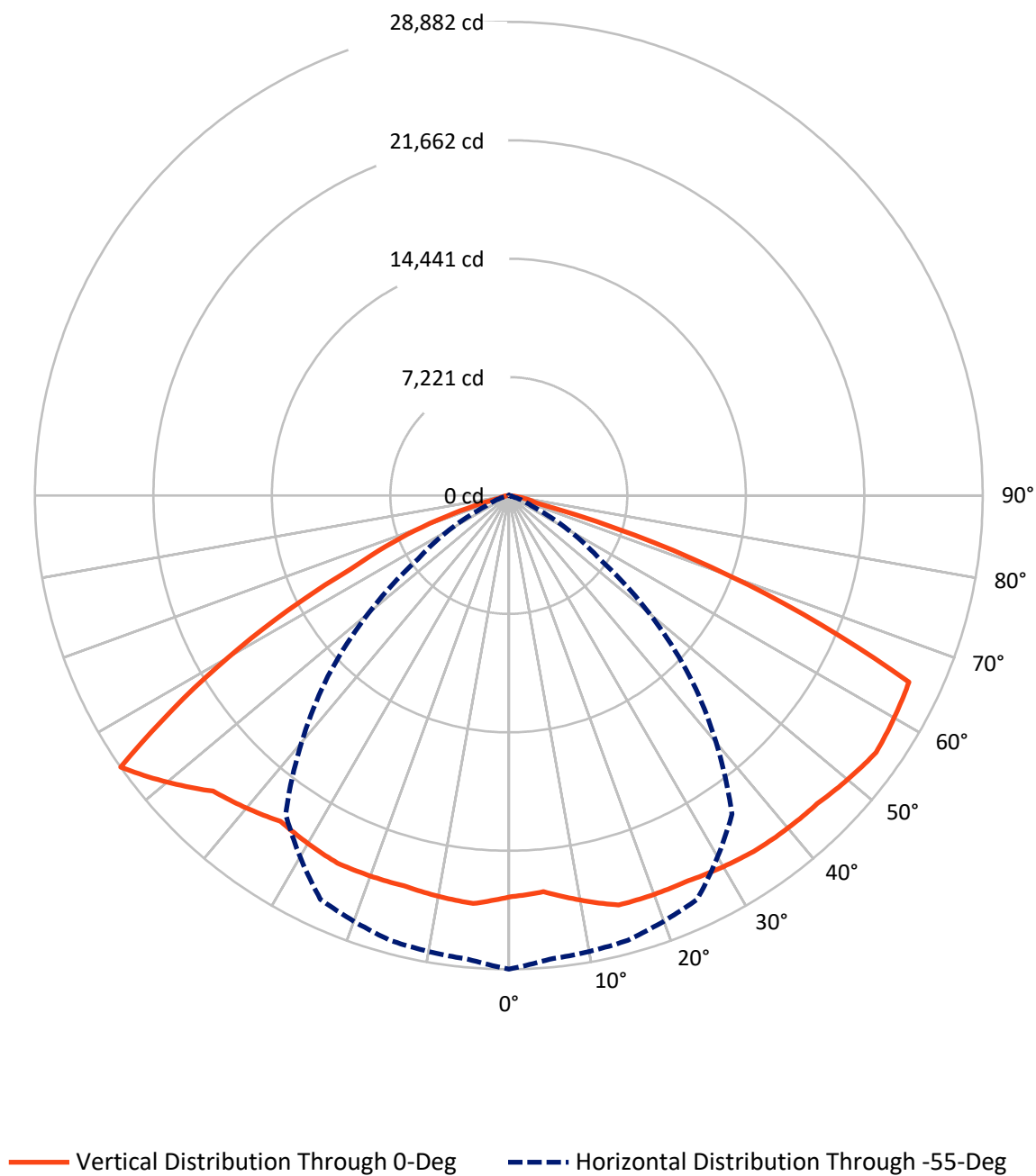
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Lumen Table



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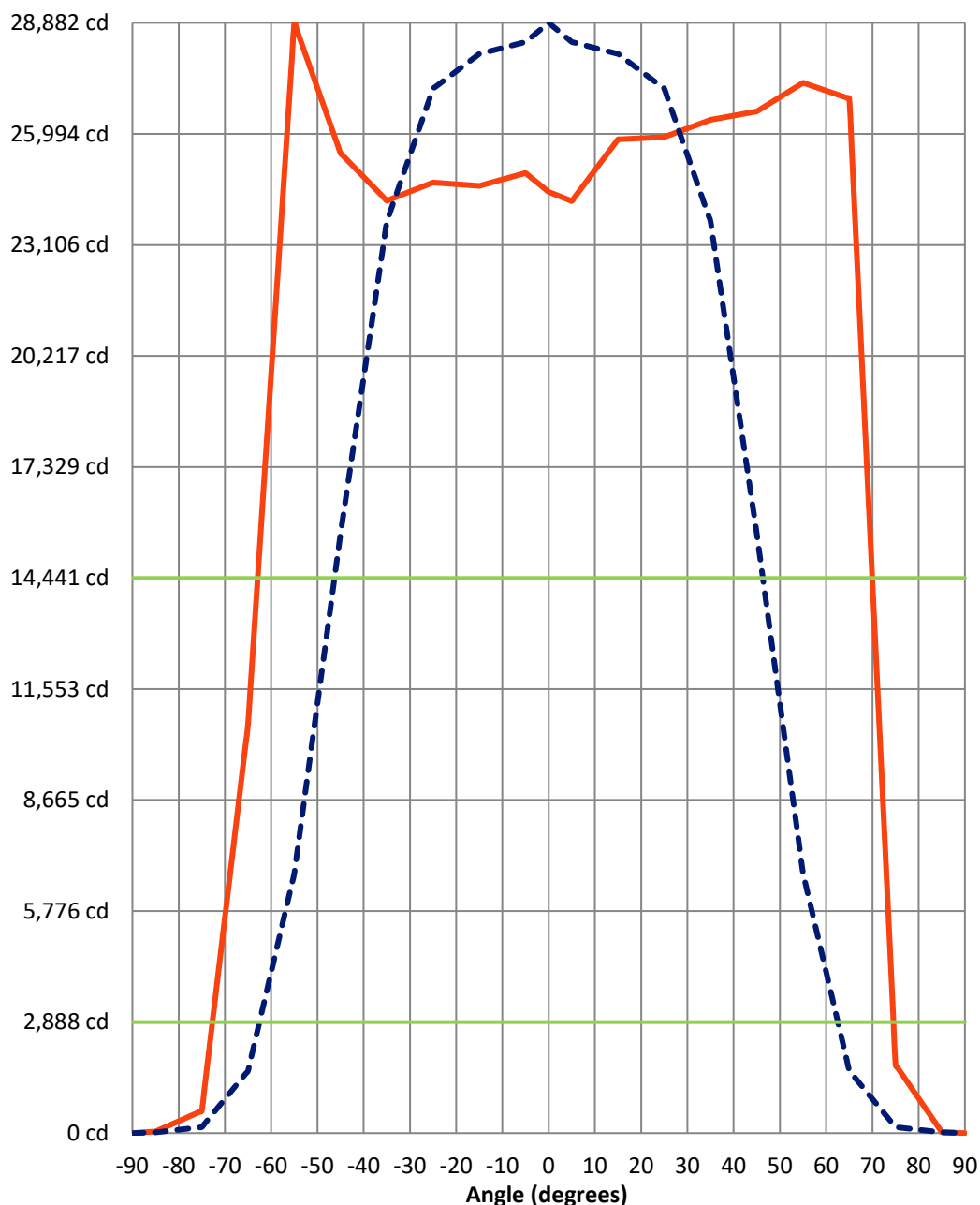
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
H Angle: 92.6°
V Angle: 132.9°
Lumens: 68876.3
Efficiency: 82.3%

Field:
H Angle: 125.1°
V Angle: 147.3°
Lumens: 82835.5
Efficiency: 99.0%

Spill:
Lumens: 805.6
Efficiency: 1.0%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through -55-Deg



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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	26	26	36	30	31	43	18	8	15	20	0
75°	1778	1746	1618	1040	484	825	254	95	25	17	0
65°	26911	26433	24309	24143	16972	8812	2750	337	71	15	0
55°	27322	27362	26738	25510	21286	13963	6600	1835	180	18	0
45°	26578	26765	26238	24170	17921	10831	6514	3416	415	26	0
35°	26359	26397	25716	25030	20698	13694	8145	4954	786	33	0
25°	25912	25908	25508	24715	20535	14948	9589	6002	1144	39	0
15°	25851	25665	24707	22790	19310	14902	10808	7258	1350	44	0
5°	24248	24531	23656	21532	19299	15041	11304	7920	1400	47	0
0°	24484	24519	23542	21068	18970	12264	10508	7831	1371	48	0
-5°	24975	24403	23654	21312	18395	13234	9275	7010	1243	48	0
-15°	24642	24523	23581	20472	16166	11504	7633	5617	936	46	0
-25°	24729	24474	23662	20375	16473	10593	6612	4641	786	42	0
-35°	24256	24243	24170	23549	18414	11932	6758	3639	615	37	0
-45°	25491	25638	25815	24133	19739	12358	6792	3135	353	29	0
-55°	28882	28383	28072	27169	23713	15594	6757	1622	156	20	0
-65°	10643	11251	12400	9271	7515	3721	1108	305	69	13	0
-75°	578	599	642	629	652	506	283	74	32	11	0
-85°	44	48	50	40	36	31	17	14	18	10	0
-90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)