

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: 766719

Luminaire Tested: **GPF40SXX76**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766719
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GPF40SXX76
Description: 400W HPS 7H X 6V FLOOD
Light Source: 400W CL HPS E-18
Ballast/Driver: -

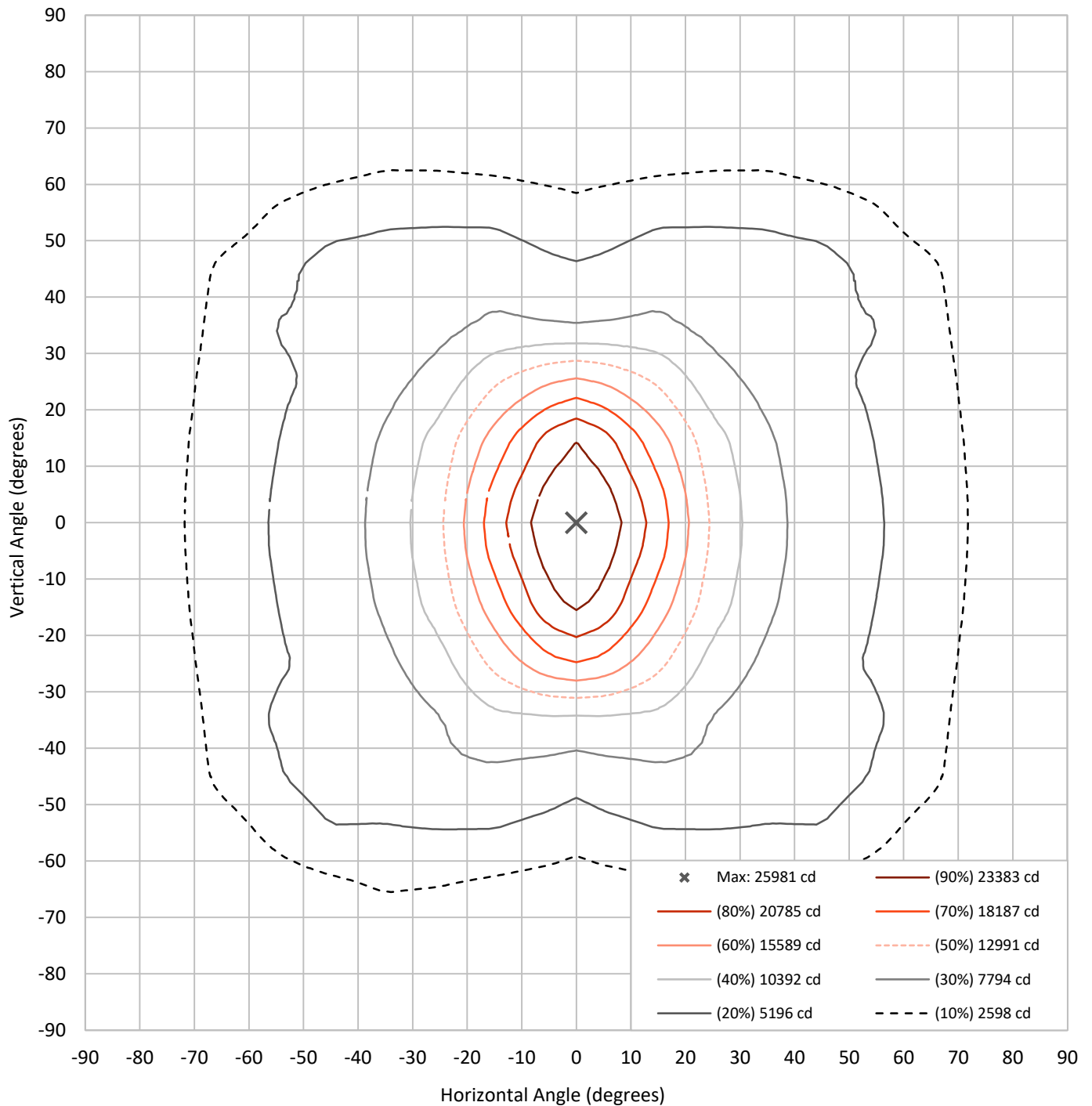
Summary

Lumens per Lamp:	50000 (1 lamp)	NEMA Type:	7H x 6V
Luminaire Lumens:	35200.4 lumens	Max Intensity:	25981 candela
Efficiency:	70.4%	Max Intensity Angle:	0°H x 0°V
Efficacy:	88.0 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 1.7' x L: 1.54' x H: 0.8')		
Beam Angle (50%):	48.6°H x 59.8°V	Field Angle (10%):	143.6°H x 117.5°V
Beam Lumens:	12292.7 lumens	Field Lumens:	34064.8 lumens
Beam Efficiency:	34.9%	Field Efficiency:	96.8%
Input Watts (W):	400		
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:	28.75 FT		



REPORT NUMBER: 766719
CATALOG NUMBER: GPF40SXX76

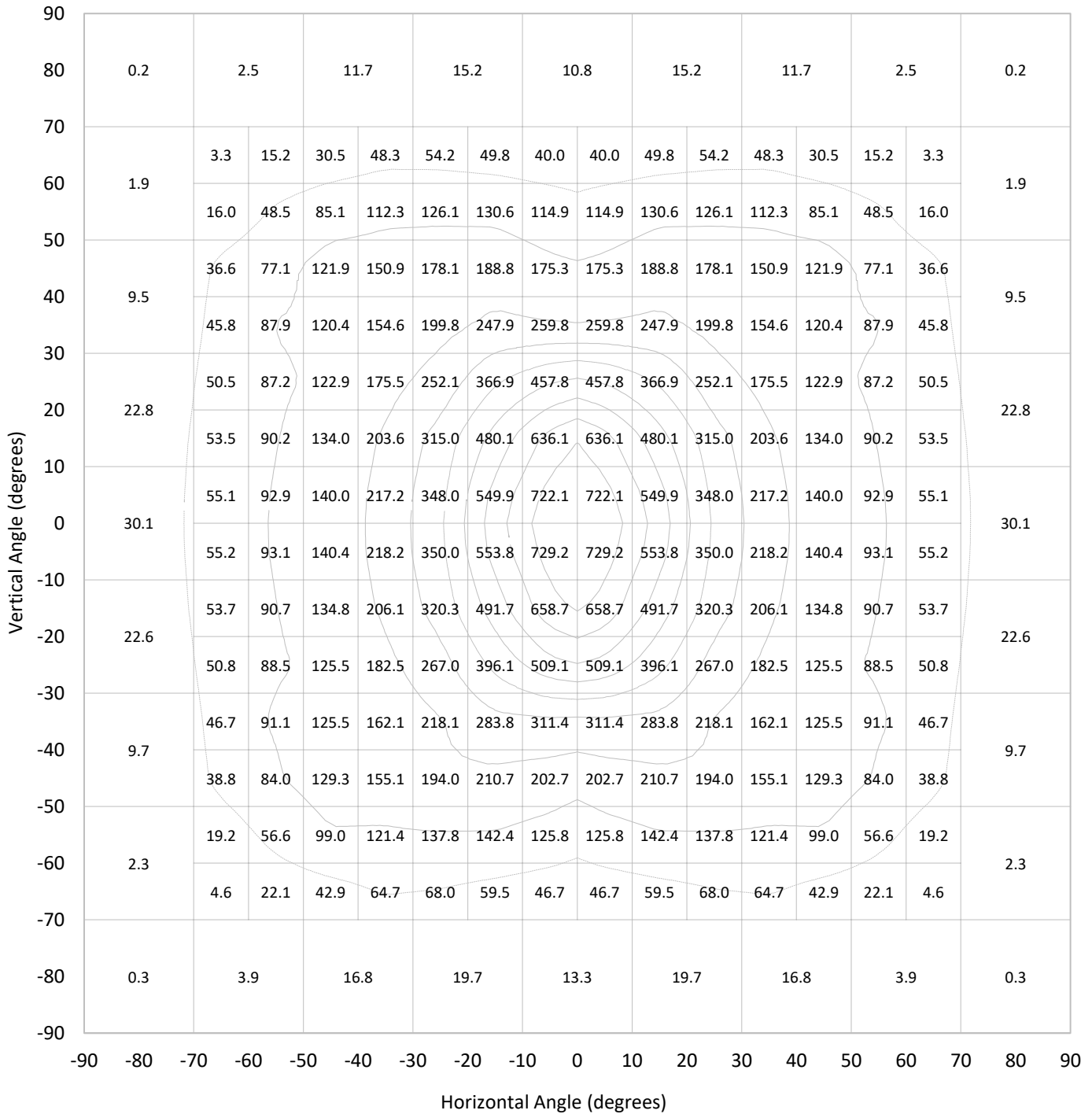
Iso-Candela Plot





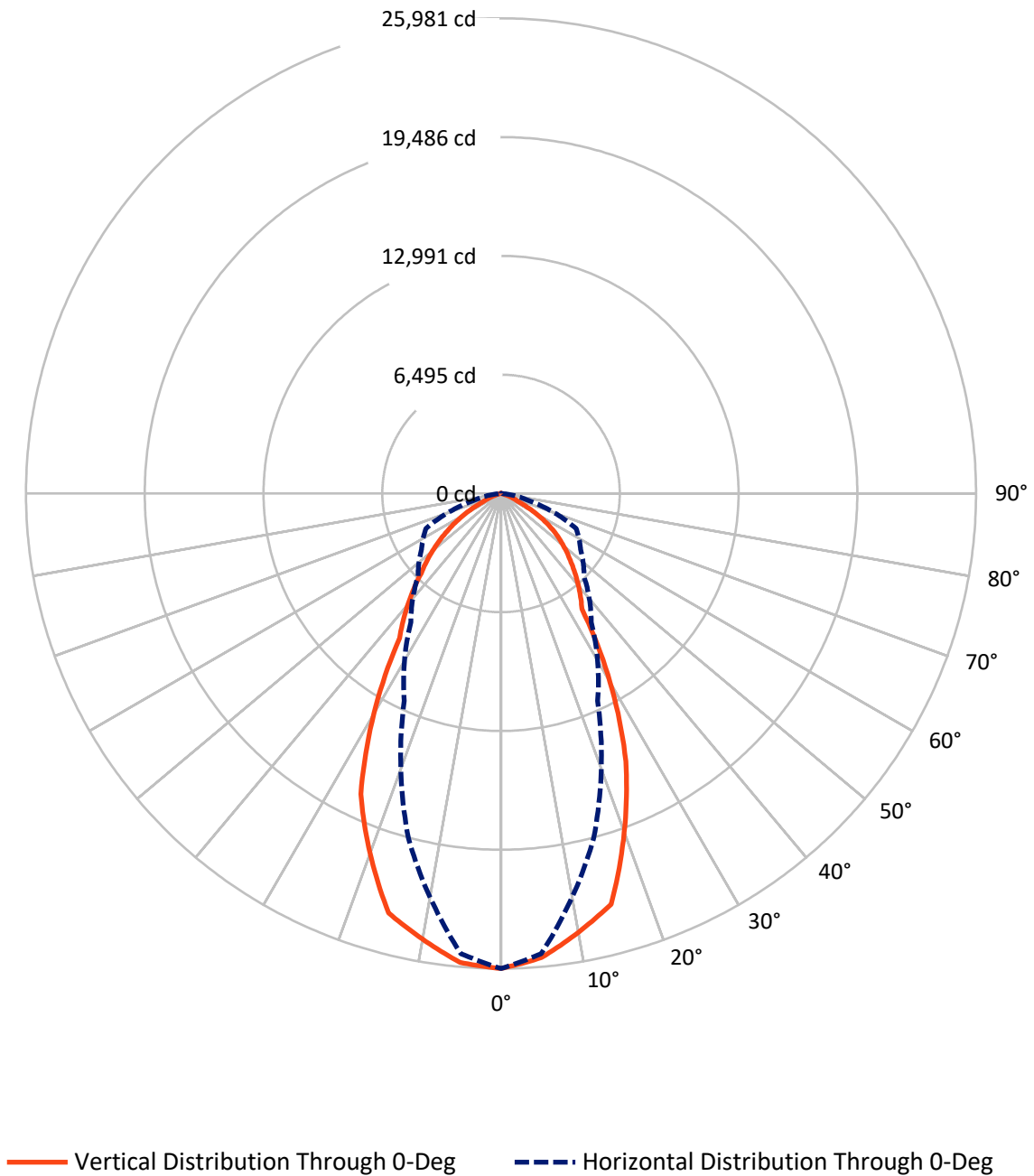
REPORT NUMBER: 766719
 CATALOG NUMBER: GPF40SXX76

Lumen Table



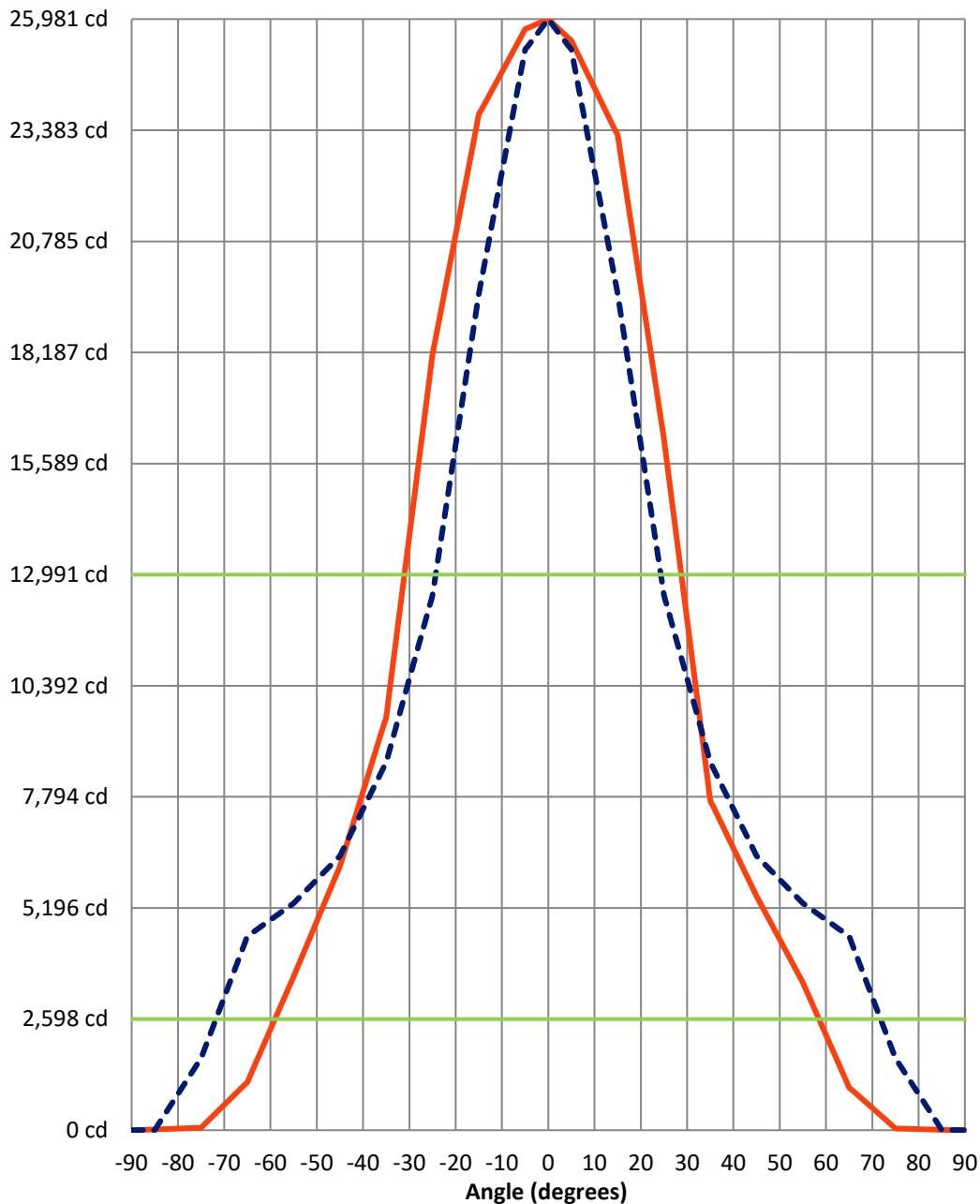
REPORT NUMBER: 766719
CATALOG NUMBER: GPF40SXX76

Luminous Intensity Polar Plot



REPORT NUMBER: 766719
 CATALOG NUMBER: GPF40SXX76

Luminous Intensity Plot



Beam:
 H Angle: 48.6°
 V Angle: 59.8°
 Lumens: 12292.7
 Efficiency: 34.9%

Field:
 H Angle: 143.6°
 V Angle: 117.5°
 Lumens: 34064.8
 Efficiency: 96.8%

Spill:
 Lumens: 1135.6
 Efficiency: 3.2%

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



REPORT NUMBER: 766719
 CATALOG NUMBER: GPF40SXX76

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°	8	4	13	9	13	18	7	12	17	1	0
75°	42	38	57	62	71	48	26	12	10	4	0
65°	998	1063	1491	1879	1885	1165	691	80	8	7	0
55°	3451	3946	4701	4674	4737	4161	2890	976	35	9	0
45°	5472	5686	6536	6748	6233	6136	4500	3172	76	10	0
35°	7713	7956	8280	7000	5988	5485	5275	3816	118	11	0
25°	16154	15384	12674	8824	6922	5544	4954	4227	798	10	0
15°	23258	21714	16537	11341	8083	6142	5130	4418	1380	9	0
5°	25474	24295	19038	12301	8530	6377	5281	4513	1656	8	0
0°	25981	25262	19553	12513	8605	6415	5307	4533	1683	8	0
-5°	25744	24559	19168	12392	8578	6402	5298	4523	1643	7	0
-15°	23748	22489	16821	11471	8158	6159	5156	4445	1349	6	0
-25°	18141	17351	13645	9390	7222	5629	5020	4248	785	6	0
-35°	9667	9806	9646	7635	6278	5745	5443	3867	119	7	0
-45°	6174	6637	7210	7427	6212	6464	4982	3311	75	9	0
-55°	3594	4293	5053	5061	4984	4983	3321	1289	36	11	0
-65°	1125	1329	1851	2477	2770	1795	1180	91	19	13	0
-75°	59	48	71	93	87	76	39	17	17	15	0
-85°	17	0	20	3	14	15	7	12	7	16	0
-90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)