

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: LUMARK

Report Number: 766719

Luminaire Tested: **HPNK-X-76-400**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 766719  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: HPNK-X-76-400  
Description: 7H X 6V FLOOD  
Light Source: 400W HPS CL HOR ED-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 50000 (1 lamp)  
Luminaire Lumens: 35200.4 lumens  
Efficiency: 70.4%  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')

NEMA Type: 7H x 6V  
Max Intensity: 25981 candela  
Max Intensity Angle: 0°H x 0°V

Beam Angle (50%): 48.6°H x 59.8°V  
Beam Lumens: 12292.7 lumens  
Beam Efficiency: 34.9%

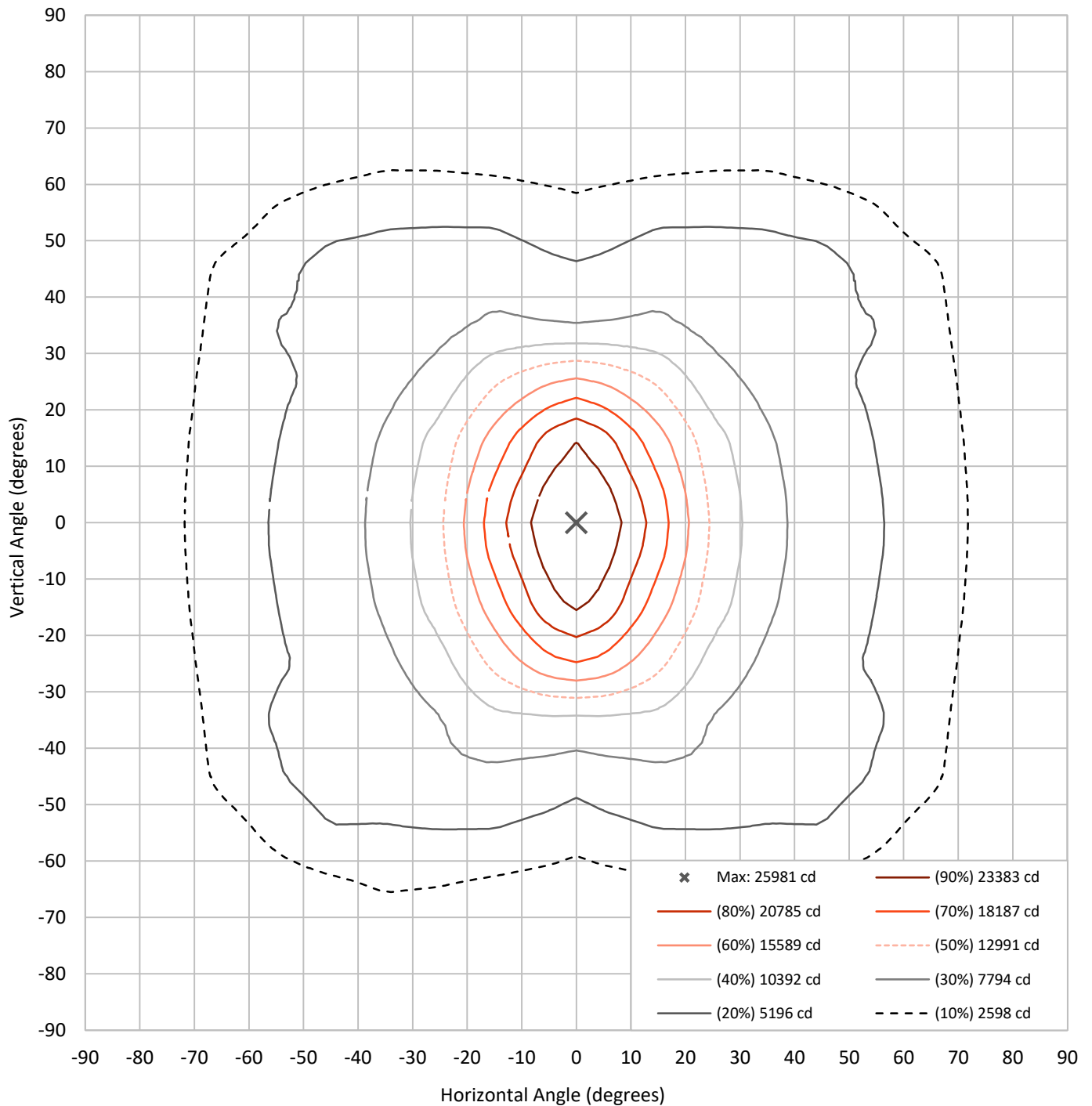
Field Angle (10%): 143.6°H x 117.5°V  
Field Lumens: 34064.8 lumens  
Field Efficiency: 96.8%

Input Watts (W): 400  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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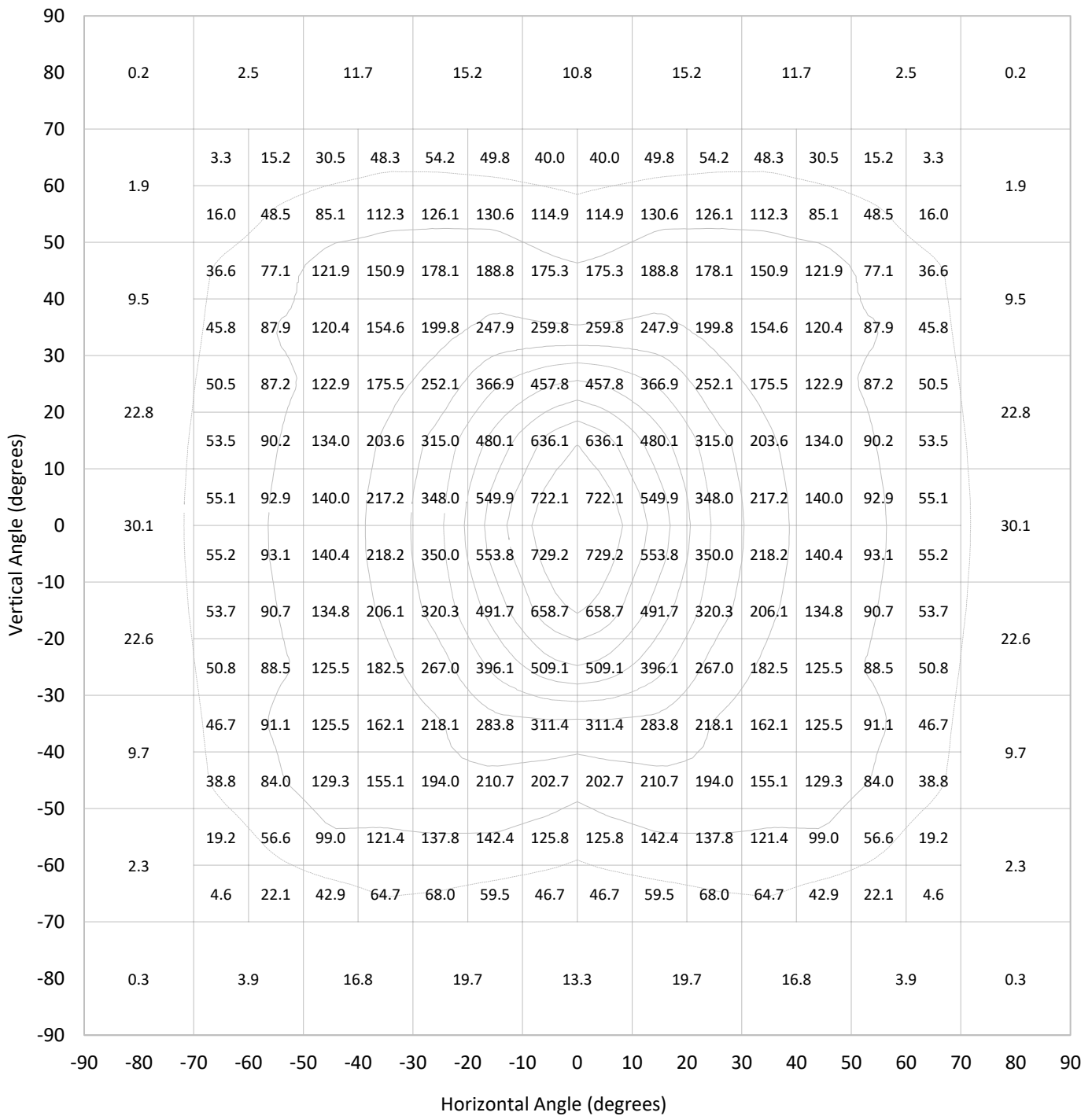
### Iso-Candela Plot





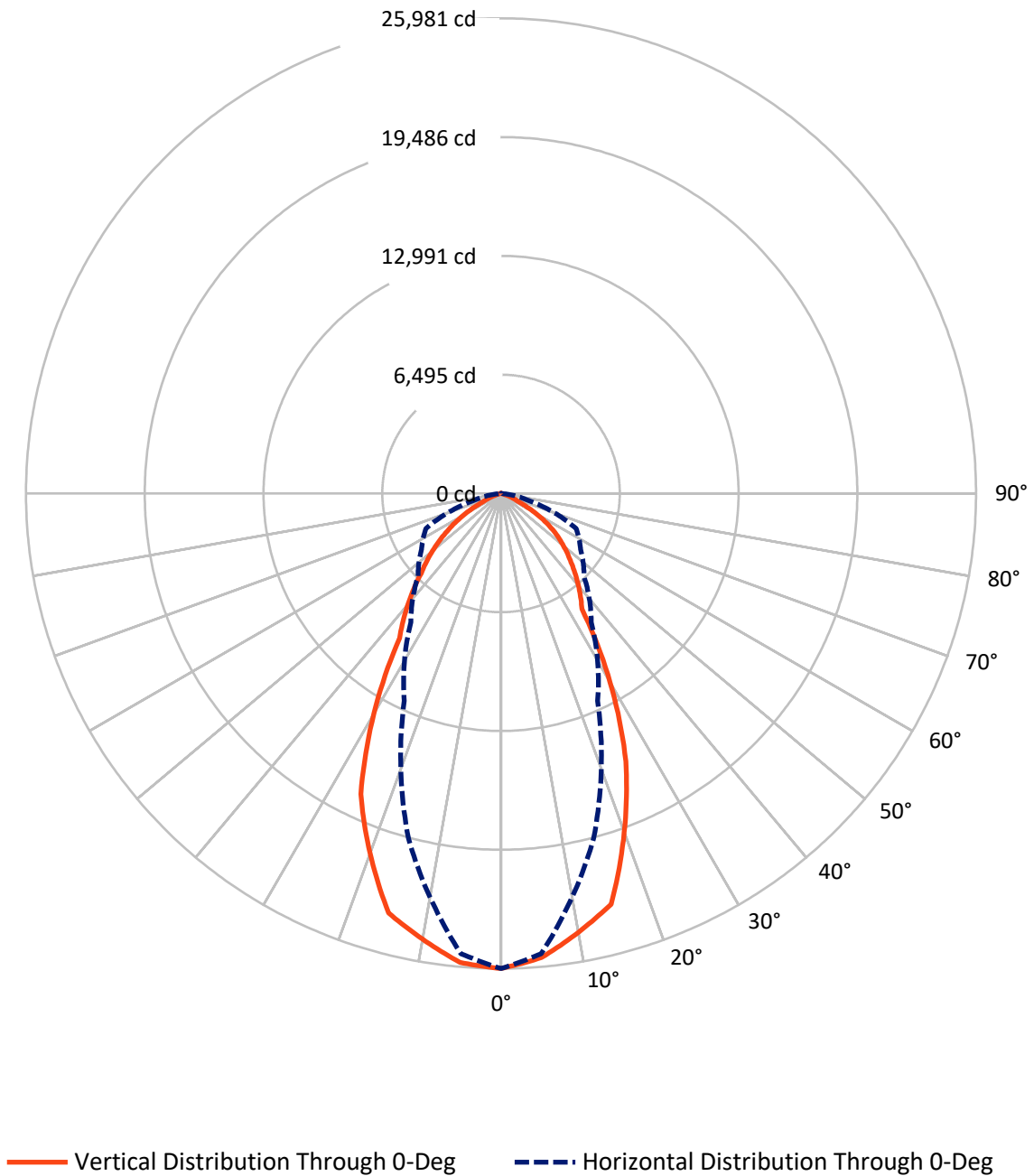
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### Lumen Table



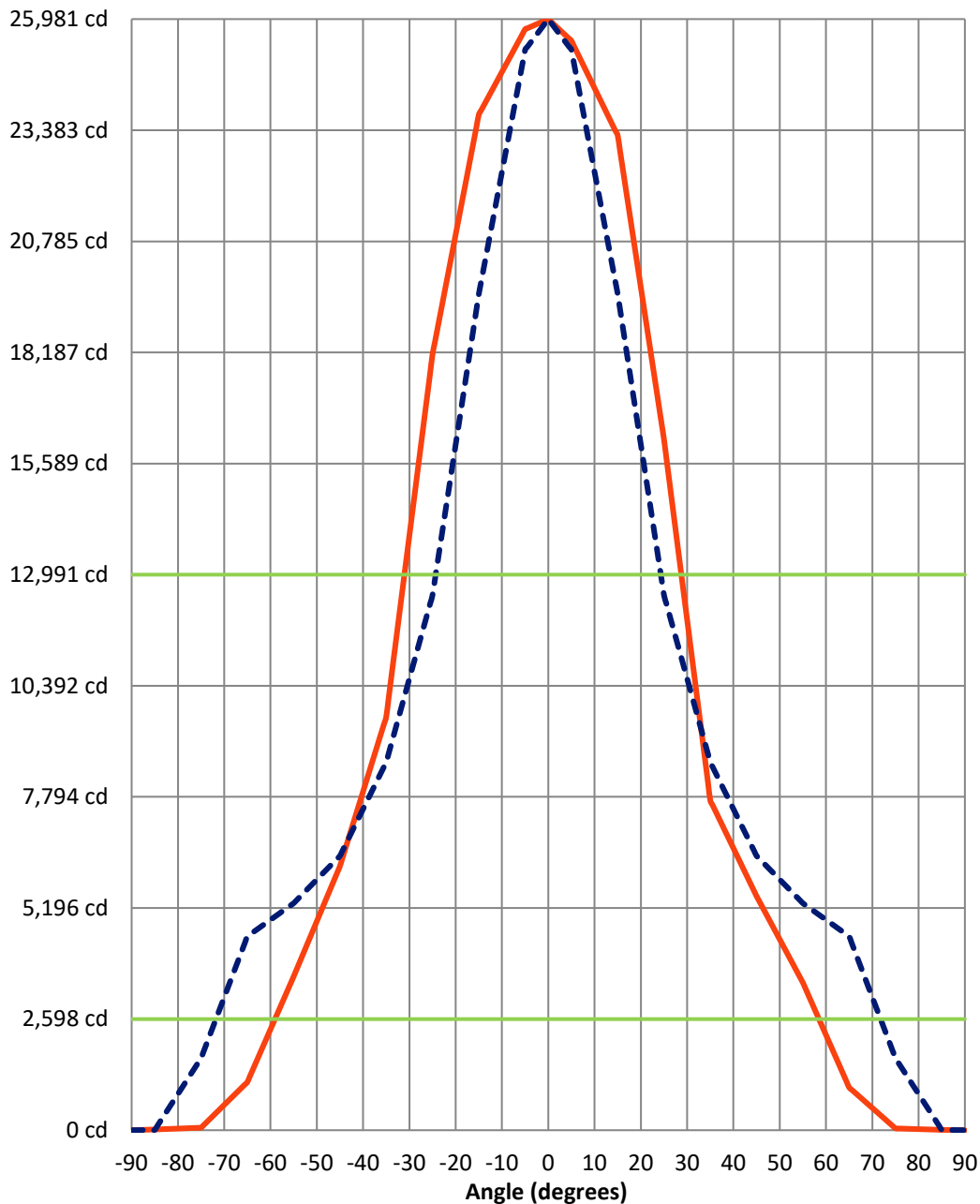
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 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



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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°	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)