

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: 766721\_400MP

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 766721\_400MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: MPNK-X-76-400  
Description: 7H X 6V FLOOD  
Light Source: 400 WATT PULSE-START CLEAR ED-37 UNIVERSAL BURN  
Ballast/Driver: -

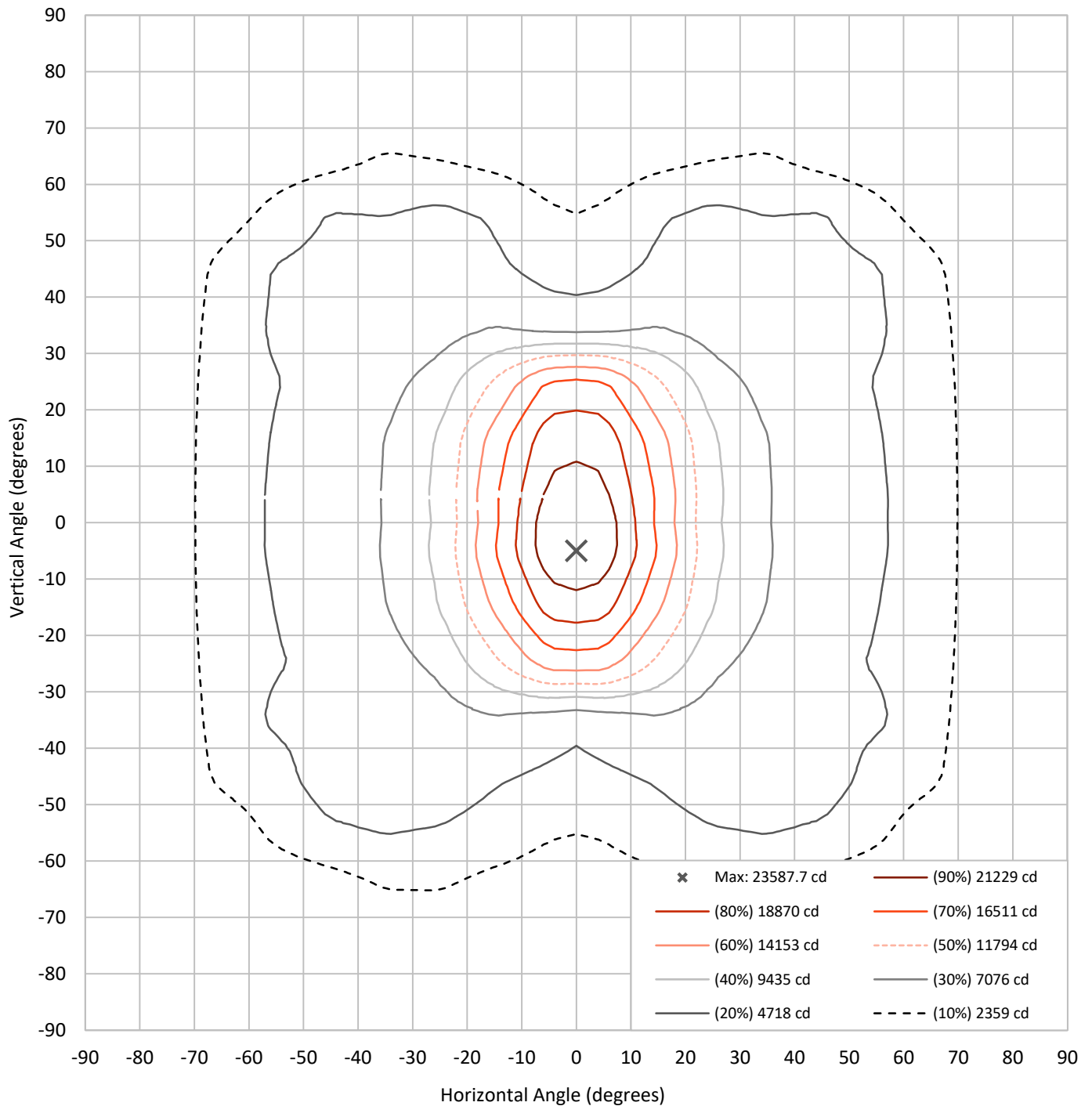
**Summary**

Lumens per Lamp:	42000 (1 lamp)	NEMA Type:	7H x 6V
Luminaire Lumens:	30499.8 lumens	Max Intensity:	23587.7 candela
Efficiency:	72.6%	Max Intensity Angle:	0°H x -5°V
Efficacy:	67.5 lumens/watt		
Luminous Opening:	Point Source (0' x 0' x 0')		
Beam Angle (50%):	44.5°H x 58.2°V	Field Angle (10%):	139.7°H x 109.9°V
Beam Lumens:	10531.2 lumens	Field Lumens:	29140.2 lumens
Beam Efficiency:	34.5%	Field Efficiency:	95.5%
Input Watts (W):	452		
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:	25 FT		



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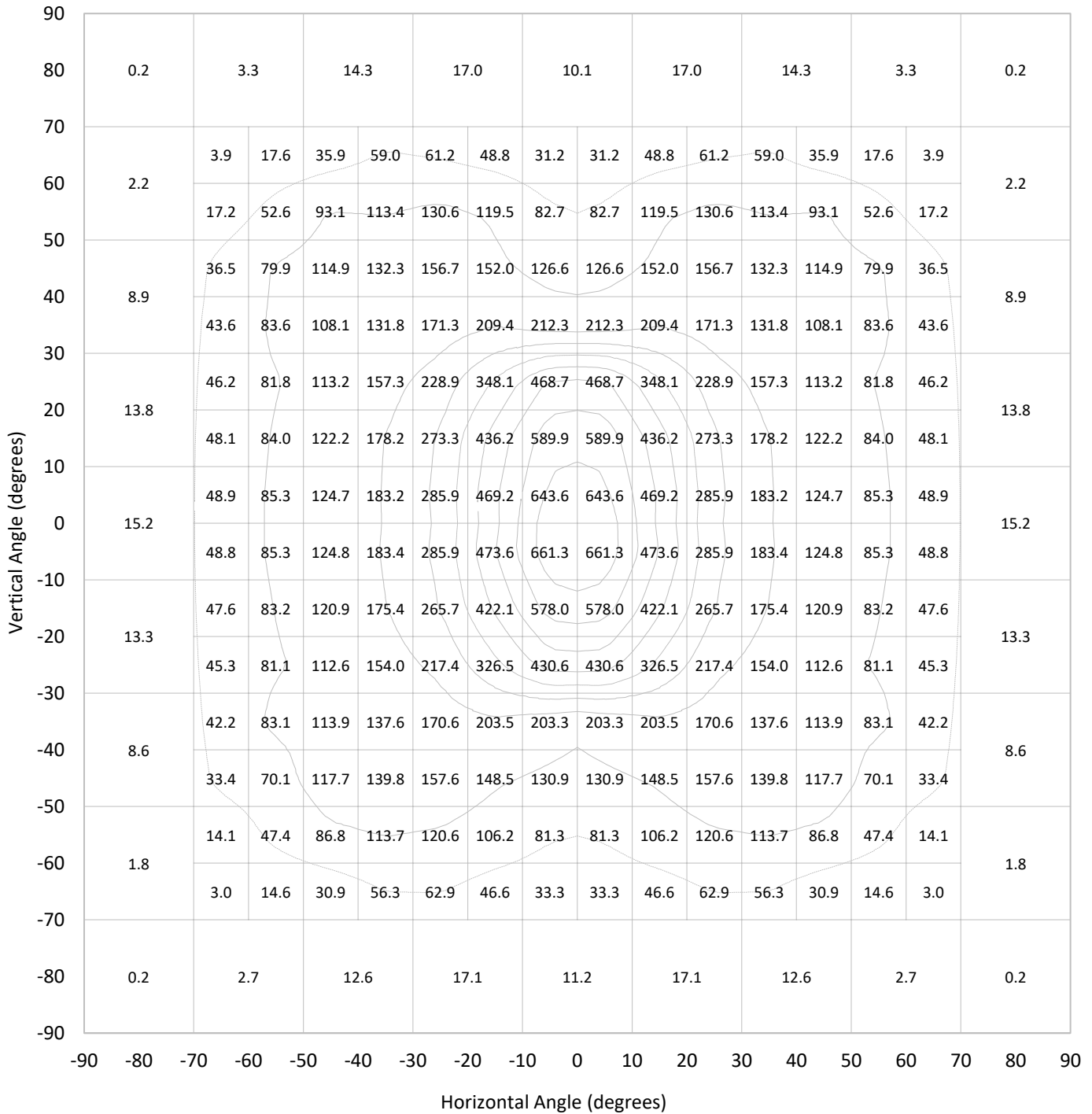
### Iso-Candela Plot





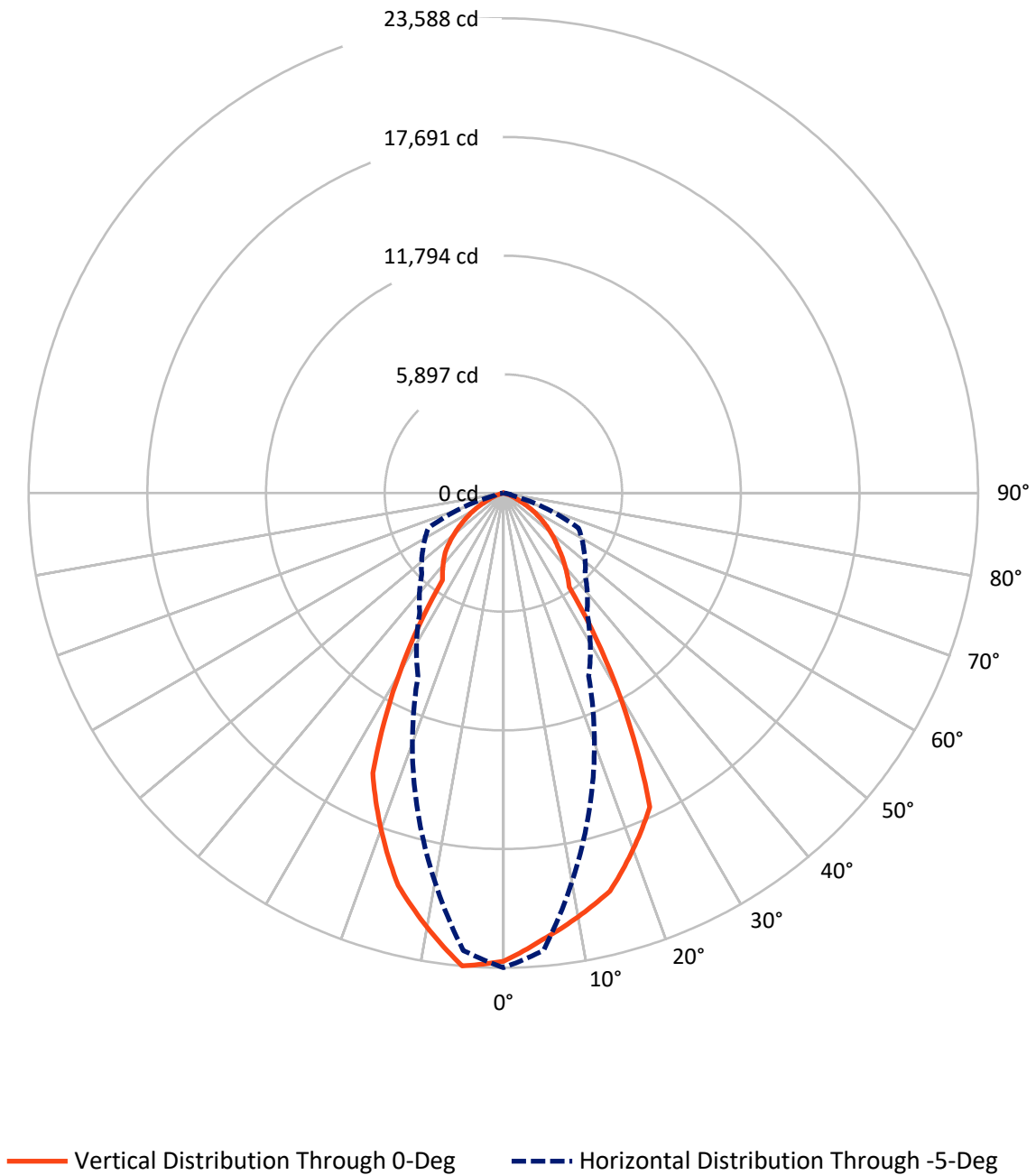
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### Lumen Table



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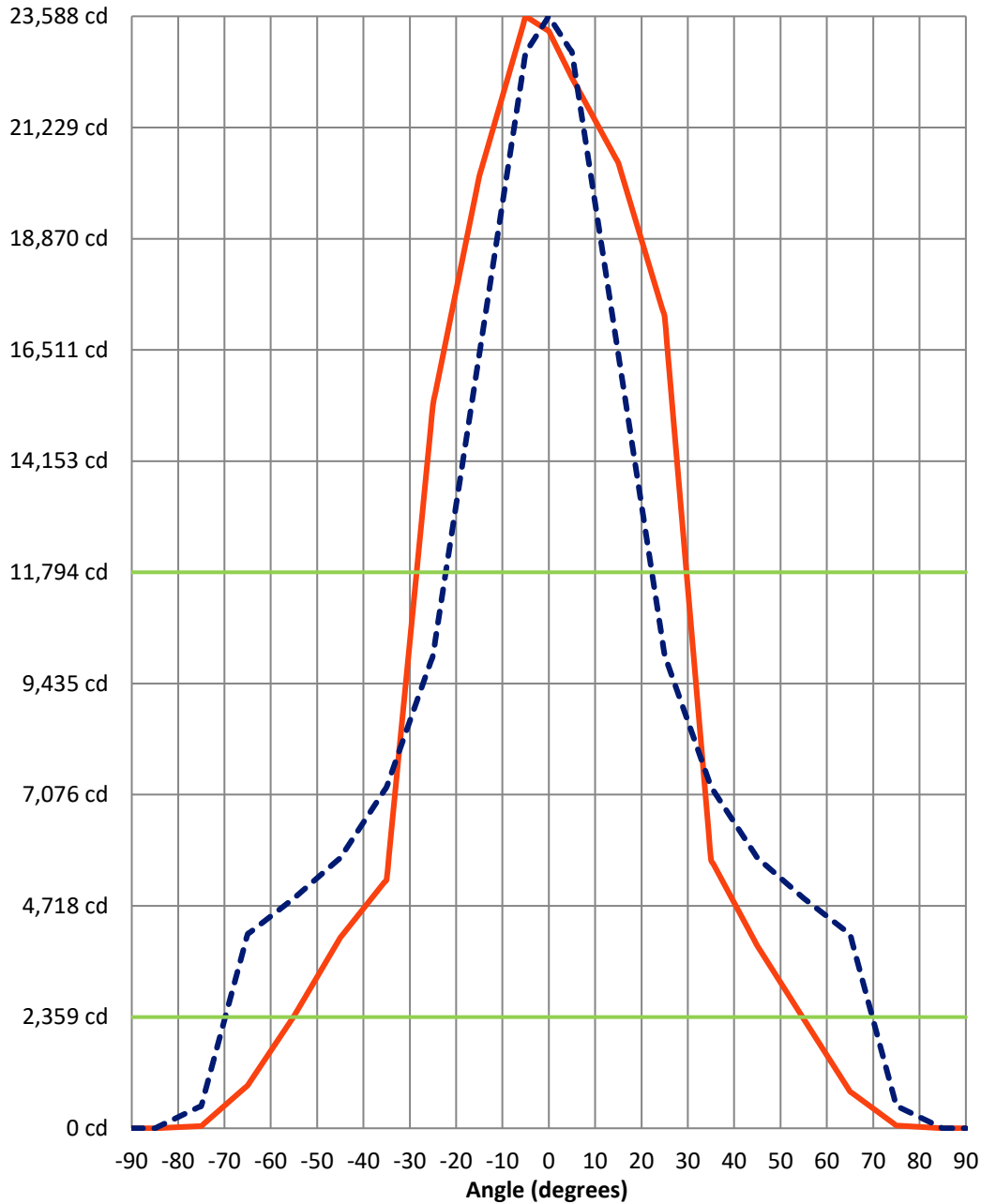
### Luminous Intensity Polar Plot





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### Luminous Intensity Plot



**Beam:**  
 H Angle: 44.5°  
 V Angle: 58.2°  
 Lumens: 10531.2  
 Efficiency: 34.5%

**Field:**  
 H Angle: 139.7°  
 V Angle: 109.9°  
 Lumens: 29140.2  
 Efficiency: 95.5%

**Spill:**  
 Lumens: 1359.6  
 Efficiency: 4.5%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through -5-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	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	5.8	5.8	4.7	7.0	3.5	1.2	2.3	3.5	4.7	0.0
75°	58.3	58.3	68.8	100.3	78.2	63.0	58.3	24.5	11.7	3.5	0.0
65°	780.5	823.7	1481.7	2146.7	2545.7	1349.8	843.5	96.8	33.8	1.2	0.0
55°	2319.3	2663.5	4480.0	5142.7	4691.2	4837.0	3089.3	1095.5	57.2	1.2	0.0
45°	3868.7	4016.8	5105.3	5939.5	5313.0	5679.3	4887.2	3110.3	85.2	1.2	0.0
35°	5699.2	5834.5	6878.7	5913.8	4977.0	4880.2	4989.8	3626.0	135.3	1.2	0.0
25°	17213.0	16856.0	12052.8	8135.2	6251.0	5156.7	4670.2	3897.8	348.8	1.2	0.0
15°	20476.2	20300.0	15081.5	9711.3	7075.8	5644.3	4807.8	4051.8	453.8	0.0	0.0
5°	22282.2	21771.2	16137.3	10010.0	7193.7	5714.3	4877.8	4118.3	490.0	0.0	0.0
0°	23272.7	22859.7	15983.3	9877.0	7161.0	5705.0	4876.7	4119.5	478.3	0.0	0.0
-5°	23587.7	22820.0	16417.3	10032.2	7241.5	5736.5	4879.0	4116.0	474.8	0.0	0.0
-15°	20196.2	19845.0	14470.2	9441.8	6970.8	5577.8	4749.5	4022.7	418.8	2.3	0.0
-25°	15348.7	15244.8	11251.3	7617.2	6077.2	5089.0	4610.7	3812.7	303.3	3.5	0.0
-35°	5279.2	5750.5	6732.8	5930.2	5293.2	5264.0	5059.8	3502.3	135.3	4.7	0.0
-45°	4043.7	4351.7	4975.8	6066.7	5713.2	6008.3	3901.3	2940.0	85.2	4.7	0.0
-55°	2377.7	2587.7	3797.5	4522.0	4856.8	4330.7	2892.2	775.8	50.2	5.8	0.0
-65°	908.8	962.5	1409.3	2423.2	2356.7	1092.0	641.7	77.0	21.0	7.0	0.0
-75°	46.7	70.0	73.5	73.5	67.7	52.5	50.2	25.7	5.8	8.2	0.0
-85°	0.0	5.8	5.8	0.0	0.0	4.7	1.2	1.2	5.8	10.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)