

Scaled data based on original data using
LM-35-02 Approved Method for Photometric Testing of Floodlights Using High Intensity
Discharge or Incandescent Filament Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P210017

Luminaire Tested: **EGL91PW*66**

Issue Date:

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By E9811737

Test Information

Test Method: LM-35-02
Report Number: P210017
DATA PRORATED FROM REPORT 764989
Test Lab:
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: EGL91PW*66
Description: EAGLESPORTS FLOODLIGHT - 6H x 6V
Light Source: 1000 WATT PULSE START METAL HALIDE, CLEAR, BT-56, UNIVERSAL
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	REFLECTOR
	AS-5443-4	Good	REFLECTOR

Summary

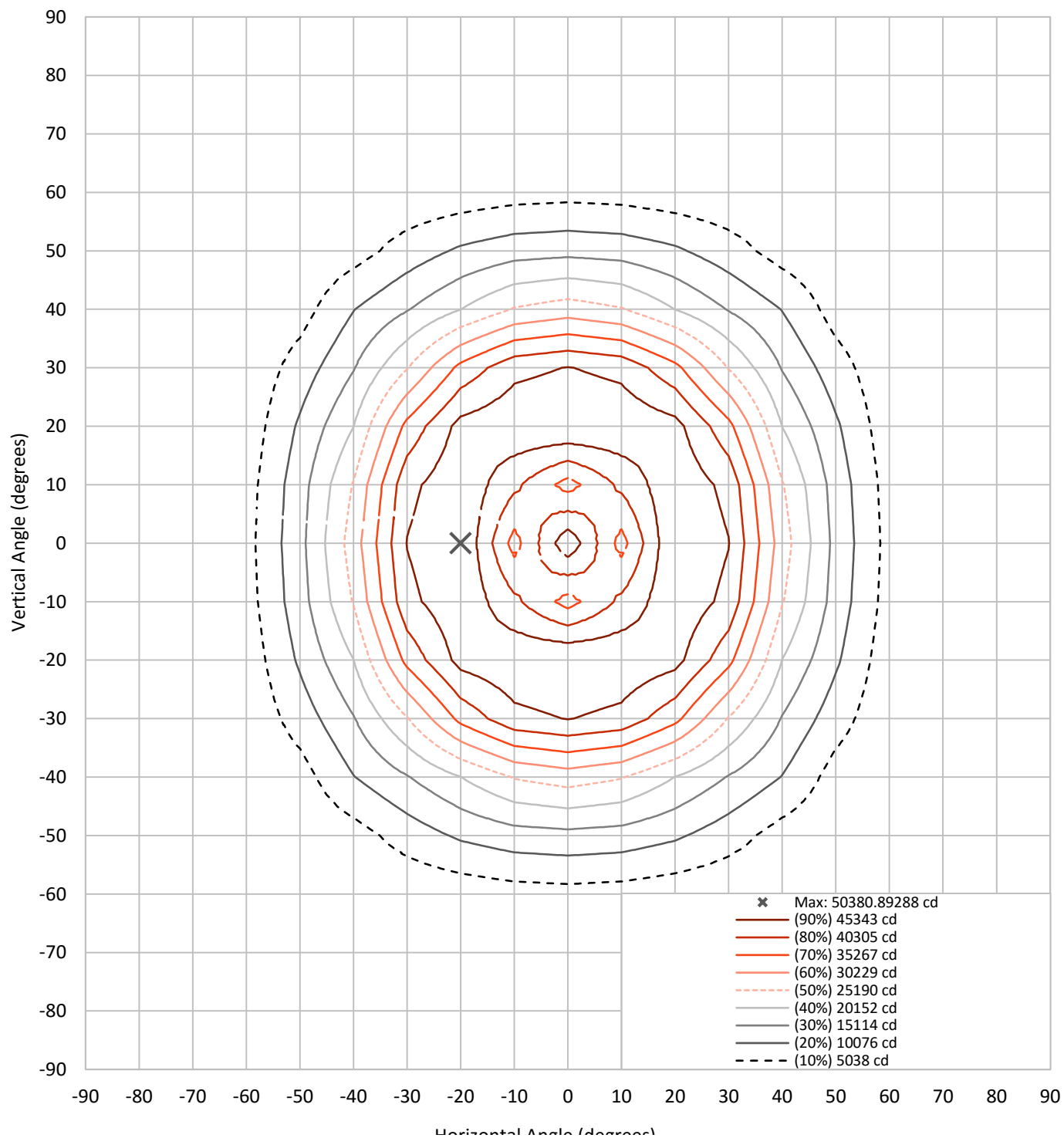
Lumens per Lamp:	110000 (1 lamp)	NEMA Type:	6H x 6V
Luminaire Lumens:	85103.7 lumens	Max Intensity:	50380.9 candela
Efficiency:	77.4%	Max Intensity Angle:	-20°H x 0°V
Efficacy:	85.1 lumens/watt		
Luminous Opening:	Point Source (0' x 0' x 0')		
Beam Angle (50%):	83.5°H x 73.9°V	Field Angle (10%):	116.6°H x 112.9°V
Beam Lumens:	60450.2 lumens	Field Lumens:	82861.9 lumens
Beam Efficiency:	71.0%	Field Efficiency:	97.4%

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





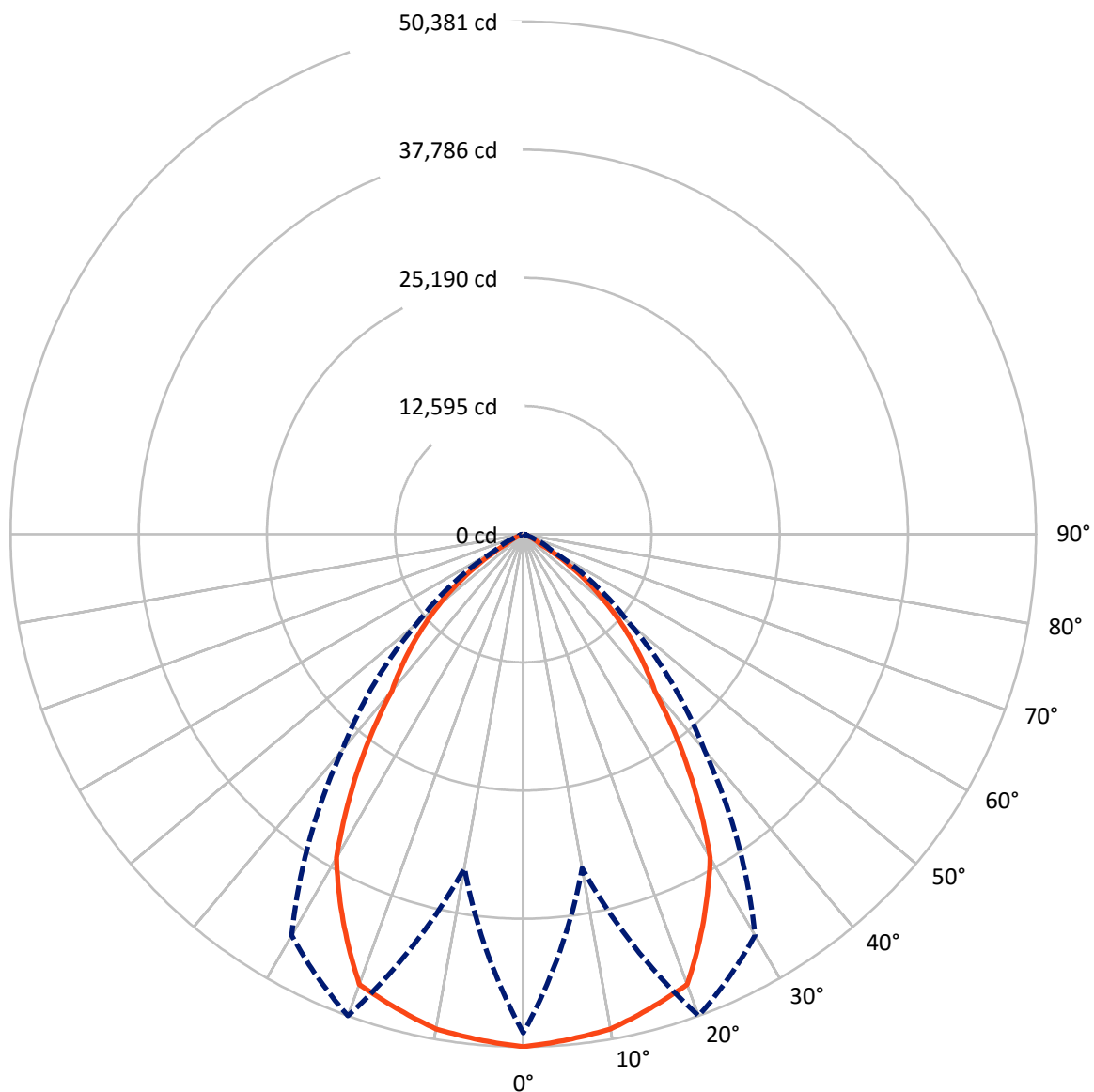
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Lumen Table

90																			
80	1.6	7.4		15.8		23.3		26.5		23.3		15.8		7.4		1.6			
70	3.1	2.9	5.1	8.4	14.0	24.8	40.9	53.4	53.4	40.9	24.8	14.0	8.4	5.1	2.9	3.1			
60		3.8	8.2	25.0	73.0	144.5	210.0	248.3	248.3	210.0	144.5	73.0	25.0	8.2	3.8				
50	4.4	5.0	20.3	88.5	217.3	365.6	510.5	604.7	604.7	510.5	365.6	217.3	88.5	20.3	5.0	4.4			
40		7.2	51.1	187.6	401.3	665.1	927.1	1080.3	1080.3	927.1	665.1	401.3	187.5	51.1	7.2				
30	5.3	11.5	91.5	285.2	601.1	1002.2	1300.5	1433.0	1433.0	1300.4	1002.2	601.1	285.2	91.4	11.5	5.3			
20		17.9	124.7	373.7	786.2	1220.2	1376.1	1322.5	1322.5	1376.1	1220.2	786.1	373.7	124.7	17.9				
10	5.7	22.7	143.0	429.3	888.3	1303.7	1282.3	1190.5	1190.5	1282.3	1303.6	888.3	429.2	142.9	22.6	5.7			
0		22.7	143.0	429.3	888.3	1303.7	1282.3	1190.5	1190.5	1282.3	1303.6	888.3	429.2	142.9	22.6				
-10	5.3	17.9	124.7	373.7	786.2	1220.2	1376.1	1322.5	1322.5	1376.1	1220.1	786.1	373.7	124.7	17.9	5.3			
-20		11.5	91.4	285.2	601.1	1002.2	1300.4	1432.9	1432.9	1300.4	1002.2	601.1	285.2	91.4	11.5				
-30	4.4	7.2	51.1	187.5	401.3	665.1	927.0	1080.3	1080.3	927.0	665.0	401.3	187.5	51.1	7.2	4.4			
-40		5.0	20.3	88.5	217.2	365.5	510.5	604.7	604.7	510.5	365.5	217.2	88.5	20.3	5.0				
-50	3.1	3.8	8.2	25.0	73.0	144.5	209.9	248.2	248.2	209.9	144.5	73.0	25.0	8.2	3.8	3.1			
-60		2.9	5.1	8.4	14.0	24.7	40.8	53.4	53.4	40.8	24.7	14.0	8.4	5.1	2.9				
-70																			
-80	1.6	7.4		15.8		23.2		26.5		23.2		15.8		7.4		1.6			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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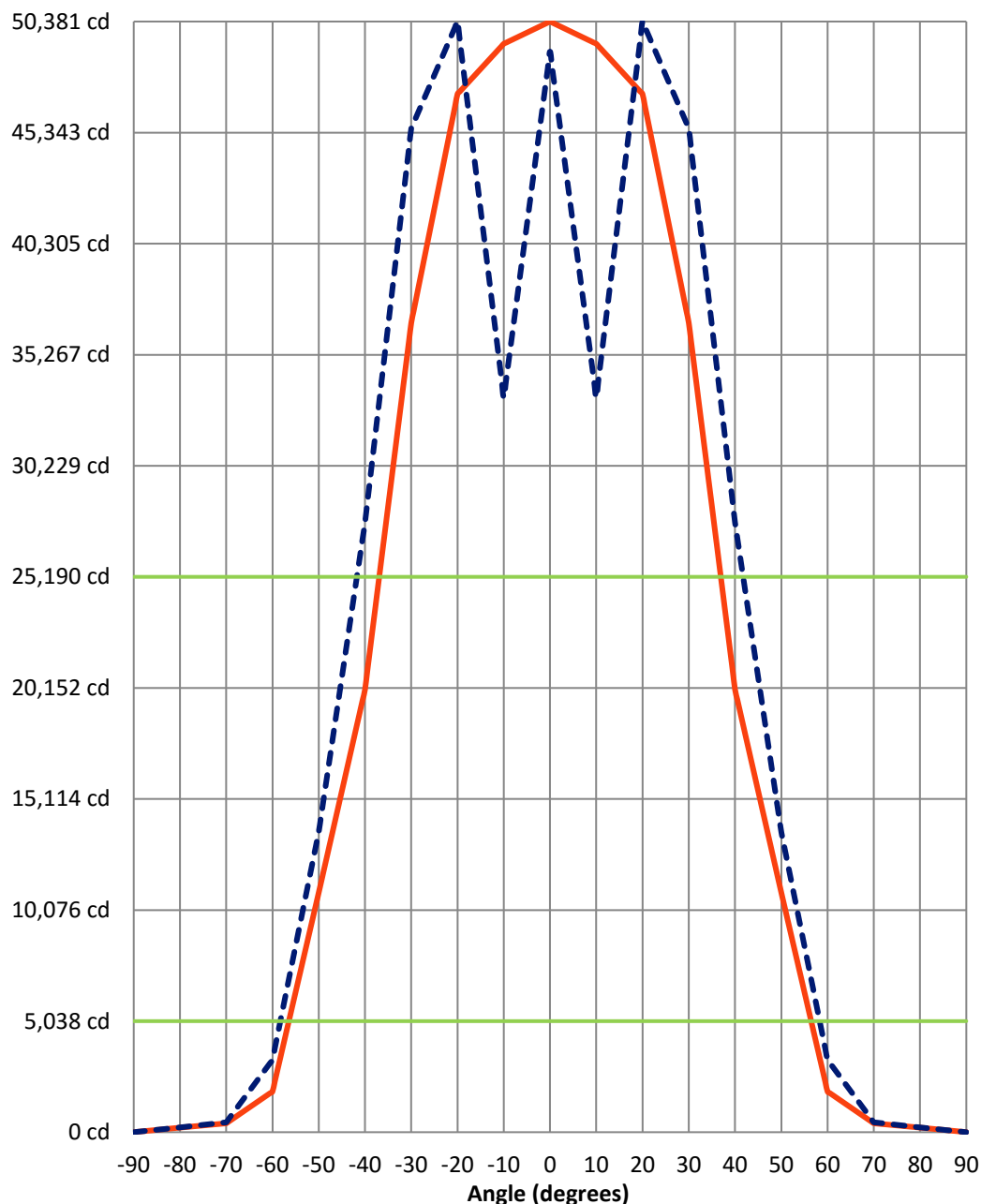
Luminous Intensity Polar Plot



— Vertical Distribution Through -20-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
H Angle: 83.5°
V Angle: 73.9°
Lumens: 60450.2
Efficiency: 71.0%

Field:
H Angle: 116.6°
V Angle: 112.9°
Lumens: 82861.9
Efficiency: 97.4%

Spill:
Lumens: 2241.8
Efficiency: 2.6%

— Vertical Distribution through -20-Deg
- - Horizontal Distribution through 0-Deg



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FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-80°	-70°	-60°	-50°	-40°	-30°	-20°	-10°	0°	10°
90°	0.0	1.4	0.0	0.7	0.7	0.7	0.0	2.8	2.8	0.7	2.8
80°	0.7	93.7	111.4	127.7	160.4	185.9	197.3	207.2	214.3	216.5	214.3
70°	0.0	111.4	167.5	214.3	262.6	311.5	361.9	403.1	433.6	449.2	433.6
60°	0.7	127.7	214.3	296.6	402.4	589.0	981.5	1844.5	2882.0	3282.3	2882.0
50°	0.7	160.4	262.6	402.4	779.9	2882.0	7267.1	10870.2	12983.6	13620.9	12983.6
40°	0.0	185.9	311.5	589.0	2881.3	9907.8	14816.7	20081.1	25557.0	27653.4	25557.7
30°	0.0	197.3	361.9	980.8	7265.0	14816.0	24872.2	36712.5	43838.4	45532.4	43838.4
20°	0.7	207.2	402.4	1843.7	10868.7	20080.4	36711.7	47090.1	49372.4	50380.9	49372.4
10°	0.7	214.3	433.6	2880.6	12980.0	25553.4	43835.5	49371.7	41476.5	33313.8	41474.4
0°	0.7	216.5	449.2	3282.3	13620.9	27653.4	45532.4	50380.9	33313.8	49019.0	33313.8
-10°	0.7	214.3	433.6	2880.6	12980.0	25552.7	43835.5	49371.7	41478.7	33313.8	41476.5
-20°	0.7	207.2	402.4	1843.7	10868.7	20079.7	36711.0	47090.1	49371.7	50380.9	49371.7
-30°	0.0	197.3	361.9	980.8	7263.6	14816.0	24871.4	36711.0	43835.5	45532.4	43835.5
-40°	0.0	185.9	311.5	589.0	2880.6	9906.4	14816.0	20079.7	25552.7	27653.4	25553.4
-50°	0.7	160.4	262.6	402.4	779.9	2880.6	7263.6	10868.7	12980.0	13620.9	12980.0
-60°	0.7	127.7	214.3	296.6	402.4	589.0	980.8	1843.7	2880.6	3282.3	2880.6
-70°	0.0	111.4	167.5	214.3	262.6	311.5	361.9	402.4	433.6	449.2	433.6
-80°	0.7	93.7	111.4	127.7	160.4	185.9	197.3	207.2	214.3	216.5	214.3
-90°	0.0	0.7	0.0	0.7	0.7	0.7	0.0	2.1	2.1	0.7	2.1



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CANDELA DISTRIBUTION (continued):

	20°	30°	40°	50°	60°	70°	80°	90°
90°	2.8	0.0	0.7	0.7	0.7	0.0	1.4	0.0
80°	207.2	197.3	185.9	160.4	127.7	111.4	93.7	0.7
70°	403.1	361.9	311.5	262.6	214.3	167.5	111.4	0.0
60°	1844.5	981.5	589.0	402.4	296.6	214.3	127.7	0.7
50°	10870.2	7267.8	2882.0	779.9	402.4	262.6	160.4	0.7
40°	20081.8	14816.7	9908.6	2882.0	589.0	311.5	185.9	0.7
30°	36713.2	24872.2	14816.7	7267.8	981.5	361.9	197.3	0.0
20°	47090.1	36713.2	20081.8	10870.2	1844.5	403.1	207.2	0.7
10°	49372.4	43838.4	25557.7	12983.6	2882.0	433.6	214.3	0.7
0°	50380.9	45532.4	27653.4	13620.9	3282.3	449.2	216.5	0.7
-10°	49372.4	43838.4	25557.0	12983.6	2882.0	433.6	214.3	0.7
-20°	47090.1	36712.5	20081.1	10870.2	1844.5	403.1	207.2	0.7
-30°	36711.7	24872.2	14816.7	7266.4	981.5	361.9	197.3	0.0
-40°	20080.4	14816.0	9907.1	2881.3	589.0	311.5	185.9	0.7
-50°	10868.7	7264.3	2880.6	779.9	402.4	262.6	160.4	0.7
-60°	1843.7	980.8	589.0	402.4	296.6	214.3	127.7	0.7
-70°	402.4	361.9	311.5	262.6	214.3	167.5	111.4	0.0
-80°	207.2	197.3	185.9	160.4	127.7	111.4	93.7	0.7
-90°	2.1	0.0	0.7	0.7	0.7	0.0	0.7	0.0

(END OF REPORT)







Horizontal Angle (degrees)



Horizontal Angle (degrees)

