

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643702

Luminaire Tested: GWS-SA6F-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39214.5 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

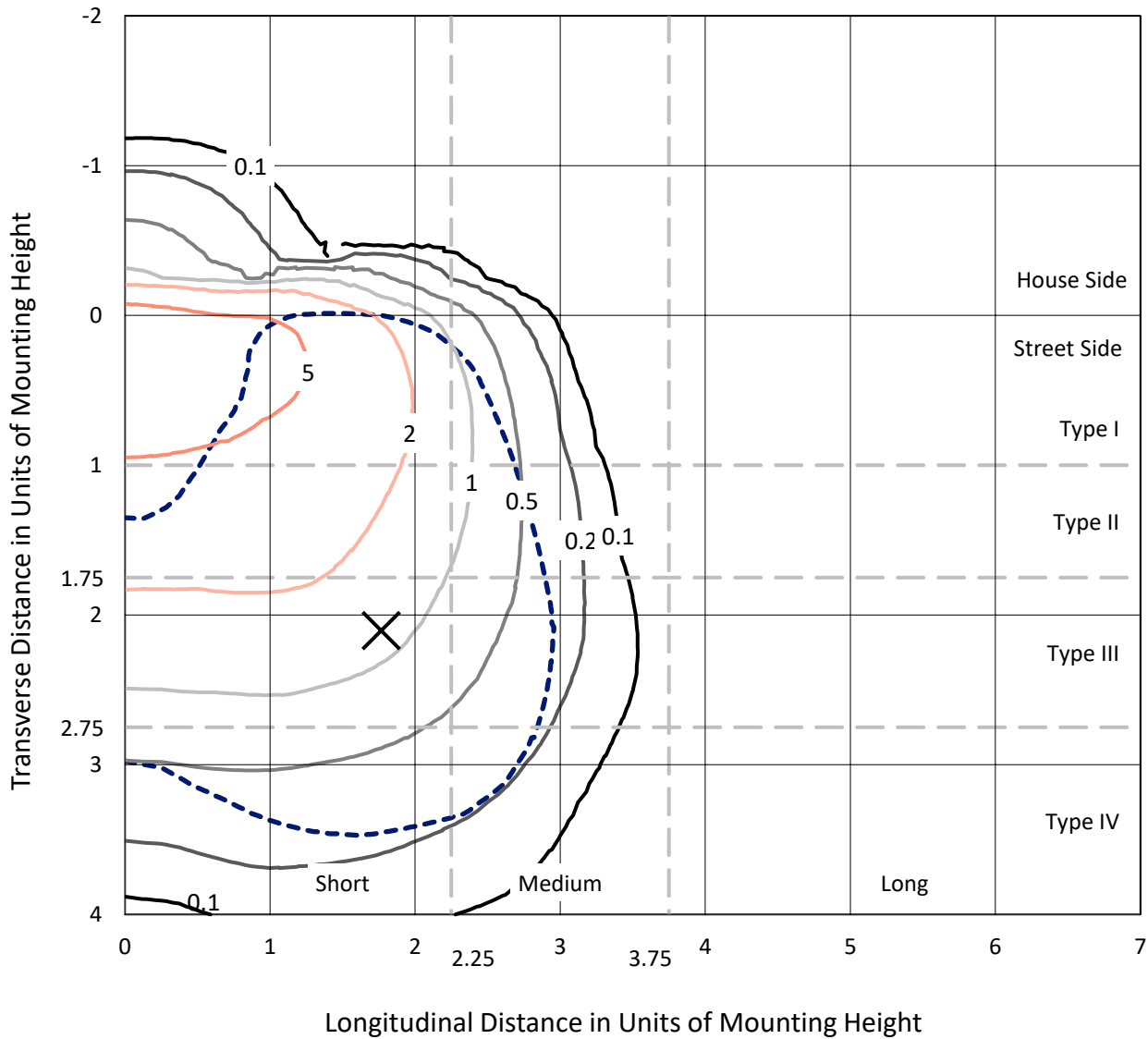
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

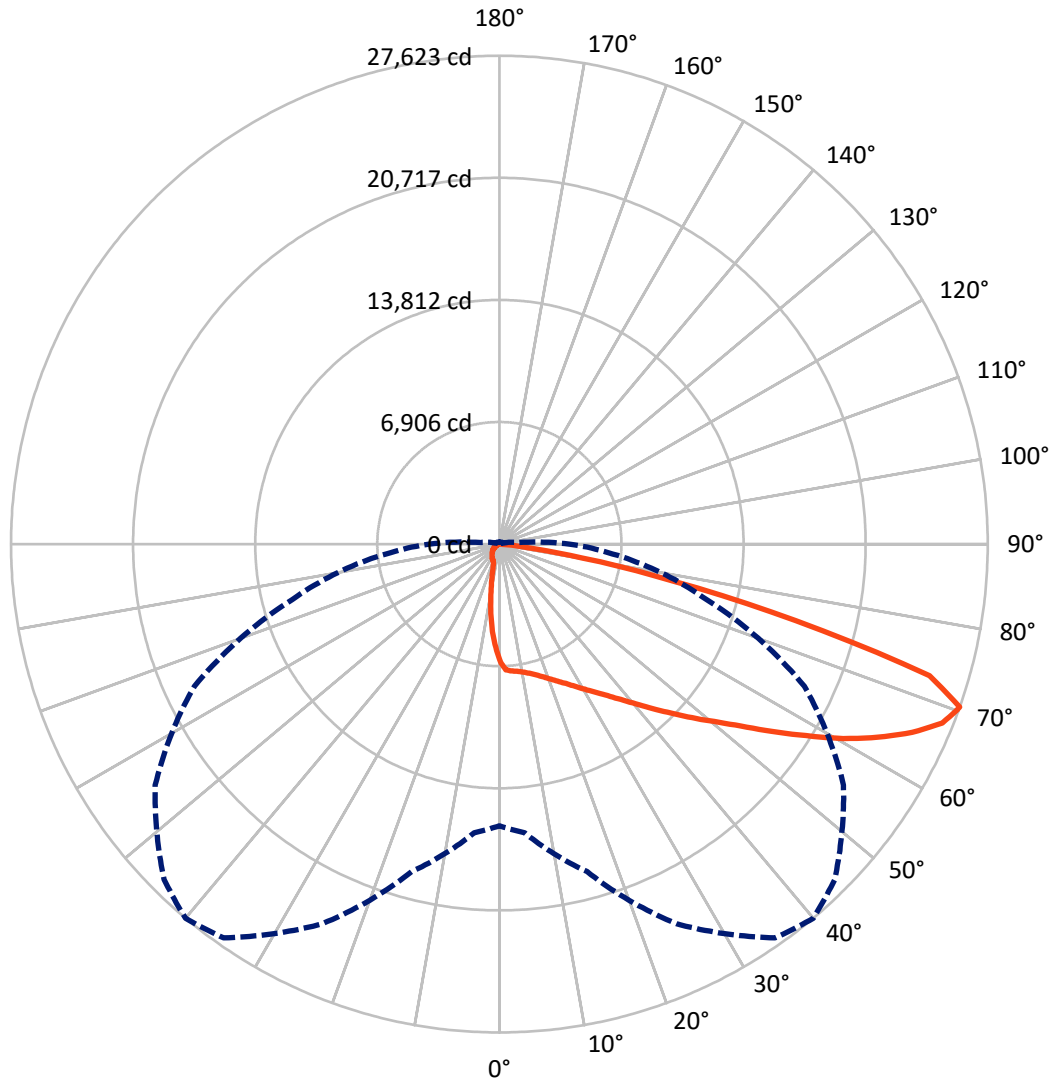
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3206.7	0.0	3206.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	36007.8	0.0	36007.8
	% Fixture	91.8	0.0	91.8
Total	Lumens	39214.5	0.0	39214.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.4	1.4
10°-20°	1426.4	3.6
20°-30°	2387.4	6.1
30°-40°	3749.6	9.6
40°-50°	5931.0	15.1
50°-60°	8651.9	22.1
60°-70°	10725.2	27.4
70°-80°	5426.3	13.8
80°-90°	354.2	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39214.5	100.0
0°-180°	39214.5	100.0

Coefficient of Utilization



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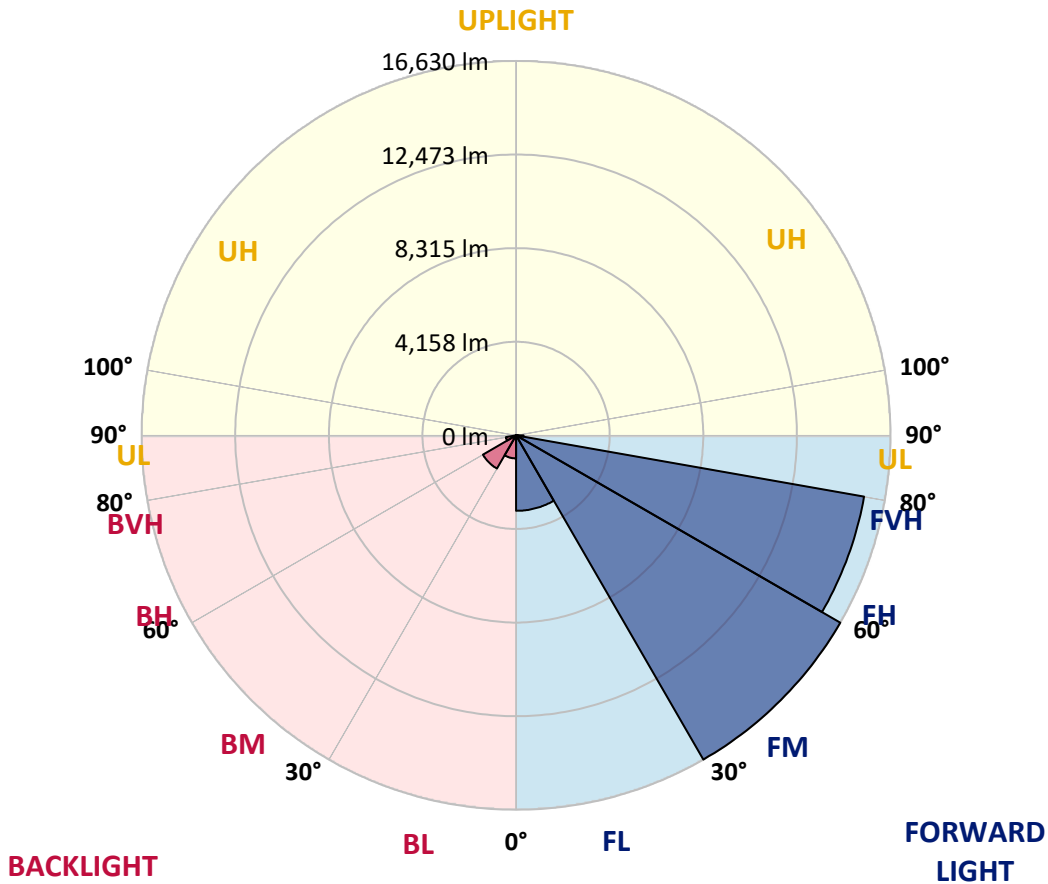
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3352.1	8.5			
FM (30°-60°)	16630.4	42.4			
FH (60°-80°)	15694.3	40.0			G5
FVH (80°-90°)	330.9	0.8			G3/500
BL (0°-30°)	1024.1	2.6	B3/2500		
BM (30°-60°)	1702.1	4.3	B2/2500		
BH (60°-80°)	457.2	1.2	B1/500		G1/500
BVH (80°-90°)	23.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2
2.5°	7153.7	7178.7	7175.2	7185.9	7160.9	7121.6	7114.5	7061.0	6964.6	6843.3	6707.7
5°	7300.0	7328.6	7307.2	7296.5	7250.1	7207.3	7196.6	7139.5	7028.9	6864.7	6629.3
7.5°	7424.9	7432.0	7417.8	7392.8	7325.0	7267.9	7228.7	7150.2	7018.2	6854.0	6582.9
10°	7446.3	7442.7	7449.9	7453.5	7410.6	7360.7	7328.6	7221.5	7053.8	6879.0	6586.4
12.5°	7421.3	7421.3	7467.7	7521.2	7521.2	7496.3	7464.2	7367.8	7171.6	6964.6	6657.8
15°	7453.5	7464.2	7553.4	7653.3	7685.4	7660.4	7646.1	7546.2	7342.8	7114.5	6786.2
17.5°	7567.6	7578.3	7721.0	7870.9	7910.1	7881.6	7853.1	7753.2	7535.5	7285.8	6932.5
20°	7735.3	7763.9	7945.8	8138.5	8174.2	8138.5	8081.4	7942.3	7724.6	7471.3	7071.7
22.5°	8042.2	8060.0	8256.2	8459.6	8477.5	8420.4	8334.7	8142.1	7913.7	7667.5	7228.7
25°	8448.9	8473.9	8670.1	8866.4	8820.0	8734.3	8616.6	8399.0	8138.5	7899.4	7428.5
27.5°	8934.2	8962.7	9155.4	9326.6	9205.3	9105.4	8973.4	8702.2	8438.2	8220.6	7685.4
30°	9458.6	9483.6	9654.9	9808.3	9647.7	9530.0	9373.0	9094.7	8827.1	8663.0	8049.3
32.5°	9965.3	9961.7	10125.8	10250.7	10086.6	9993.8	9851.1	9569.2	9355.2	9283.8	8591.6
35°	10436.3	10436.3	10571.8	10696.7	10579.0	10529.0	10397.0	10172.2	10050.9	10136.6	9315.9
37.5°	10910.8	10885.8	11014.3	11153.4	11142.7	11146.3	11071.4	10964.3	10971.5	11274.7	10311.4
40°	11303.3	11292.6	11442.4	11624.4	11767.1	11881.3	11834.9	11874.1	12098.9	12666.2	11585.1
42.5°	11617.3	11642.2	11834.9	12123.9	12484.3	12716.2	12748.3	12908.9	13486.9	14364.6	13023.0
45°	11977.6	11981.2	12248.8	12691.2	13265.6	13633.1	13761.6	14175.5	14996.1	16127.1	14600.1
47.5°	12420.0	12377.2	12676.9	13297.8	14129.1	14671.4	14899.8	15417.1	16687.3	17846.9	15884.5
50°	12908.9	12830.4	13169.3	14014.9	15096.0	15773.9	16237.7	16994.2	18364.2	19259.8	16840.7
52.5°	13476.2	13401.2	13786.6	14839.1	16255.6	17079.8	17675.6	18439.2	19802.1	20337.3	17411.6
55°	14196.9	14122.0	14528.7	15827.4	17625.7	18696.1	19320.5	19962.7	21140.1	21133.0	17825.5
57.5°	14996.1	14892.6	15456.4	17076.2	19334.7	20447.9	21083.0	21397.0	22157.0	21750.2	18103.8
60°	15913.1	15820.3	16601.7	18564.1	21307.8	22338.9	22738.6	22610.1	22991.9	22114.2	18007.5
62.5°	16740.8	16698.0	17668.5	20141.1	23188.1	24058.7	24169.3	23609.1	23605.6	22121.3	17358.1
65°	17600.7	17682.8	19124.2	21957.2	25079.1	25664.3	25475.2	24601.0	23851.8	21247.2	15438.5
67.5°	17921.8	18160.9	20084.0	23598.4	26570.5	27027.2	26695.4	25097.0	22827.8	18307.2	11756.4
70°	15938.0	16387.6	19177.7	23691.2	27187.8	27623.1	26827.4	23762.6	19031.5	12127.5	6440.2
72.5°	12120.3	12644.8	15980.9	19399.0	24451.2	25443.1	24083.7	19359.7	12266.6	5312.7	2162.2
75°	6782.7	7350.0	11902.7	14607.2	16416.1	17322.4	16822.9	12420.0	5434.0	1387.9	645.8
77.5°	2294.2	2483.3	5537.5	9037.6	10835.9	10022.4	8484.6	6169.0	1998.1	528.1	342.5
80°	1359.4	1430.7	2062.3	4499.2	5701.6	4727.5	3732.1	2279.9	1016.9	281.9	239.1
82.5°	406.7	481.7	1138.2	1669.8	2233.5	1391.5	1177.4	1302.3	528.1	153.4	199.8
85°	0.0	0.0	242.6	517.4	585.1	228.3	228.3	738.6	96.3	64.2	146.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	17.8	10.7	14.3	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2	6654.2
2.5°	6611.4	6486.5	6340.3	6201.1	6069.1	5897.8	5815.8	5715.9	5630.2	5583.8	5608.8
5°	6479.4	6283.2	5983.5	5680.2	5373.3	5084.3	4823.9	4649.0	4492.1	4410.0	4427.8
7.5°	6365.2	6101.2	5633.8	5137.9	4645.5	4149.5	3746.3	3432.4	3189.7	3089.8	3072.0
10°	6315.3	5983.5	5323.4	4609.8	3853.4	3186.2	2615.3	2269.2	2023.0	1901.7	1923.1
12.5°	6340.3	5922.8	5059.4	4092.4	3111.3	2333.4	1787.5	1462.9	1288.0	1216.7	1198.8
15°	6411.6	5908.5	4823.9	3564.4	2401.2	1630.6	1234.5	1102.5	1066.8	1059.7	1059.7
17.5°	6493.7	5912.1	4581.3	3029.2	1823.2	1209.5	1056.1	1031.1	1020.4	1013.3	1016.9
20°	6575.7	5912.1	4303.0	2486.9	1370.1	1045.4	1006.2	988.3	977.6	974.1	974.1
22.5°	6675.6	5912.1	3992.5	1983.8	1098.9	991.9	959.8	949.1	938.4	934.8	931.2
25°	6796.9	5915.7	3650.0	1552.1	999.0	945.5	920.5	909.8	899.1	892.0	892.0
27.5°	6971.8	5944.2	3271.8	1209.5	941.9	902.7	881.3	870.6	859.9	849.2	849.2
30°	7225.1	6015.6	2847.2	999.0	888.4	856.3	834.9	827.8	817.1	806.4	802.8
32.5°	7603.3	6140.4	2408.4	895.6	838.5	806.4	781.4	774.2	763.5	752.8	749.3
35°	8131.4	6368.8	1980.2	831.3	774.2	742.1	727.9	724.3	710.0	699.3	699.3
37.5°	8905.6	6739.9	1569.9	767.1	720.7	695.8	677.9	670.8	656.5	645.8	642.2
40°	9851.1	7221.5	1220.2	717.2	670.8	645.8	628.0	617.3	599.4	585.1	578.0
42.5°	11057.1	7810.2	963.3	663.6	624.4	599.4	585.1	563.7	538.8	517.4	513.8
45°	12313.0	8416.8	795.7	613.7	581.6	560.2	542.3	513.8	478.1	453.1	446.0
47.5°	13276.3	8795.0	695.8	560.2	535.2	517.4	495.9	460.3	417.5	388.9	381.8
50°	13965.0	8852.1	620.8	510.2	495.9	478.1	446.0	403.2	356.8	328.3	321.1
52.5°	14303.9	8595.2	560.2	463.8	453.1	435.3	396.0	349.7	299.7	271.2	264.0
55°	14457.3	8110.0	503.1	424.6	410.3	388.9	346.1	296.1	246.2	221.2	214.1
57.5°	14396.7	7392.8	453.1	385.3	367.5	342.5	296.1	242.6	203.4	178.4	174.8
60°	13947.1	6386.6	403.2	346.1	324.7	296.1	249.8	199.8	164.1	146.3	142.7
62.5°	12976.6	5137.9	353.2	299.7	285.4	256.9	214.1	164.1	135.6	124.9	121.3
65°	10989.3	3632.2	303.3	253.3	246.2	217.6	178.4	135.6	117.7	110.6	107.0
67.5°	7899.4	2208.6	256.9	217.6	210.5	185.5	149.9	117.7	107.0	103.5	103.5
70°	3971.1	1045.4	203.4	178.4	178.4	153.4	128.4	107.0	103.5	99.9	99.9
72.5°	1348.7	446.0	153.4	139.2	146.3	132.0	110.6	99.9	99.9	99.9	99.9
75°	460.3	235.5	107.0	99.9	107.0	107.0	96.3	96.3	99.9	99.9	99.9
77.5°	299.7	157.0	74.9	67.8	82.1	82.1	82.1	89.2	96.3	96.3	96.3
80°	246.2	85.6	50.0	46.4	60.7	60.7	67.8	82.1	89.2	89.2	89.2
82.5°	210.5	53.5	28.5	32.1	42.8	46.4	57.1	67.8	78.5	82.1	82.1
85°	142.7	28.5	21.4	25.0	28.5	35.7	46.4	57.1	64.2	71.4	71.4
87.5°	39.2	10.7	14.3	17.8	17.8	25.0	35.7	42.8	50.0	53.5	53.5
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)