

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: P631345

Luminaire Tested: GWS-SA1F-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8590.7 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

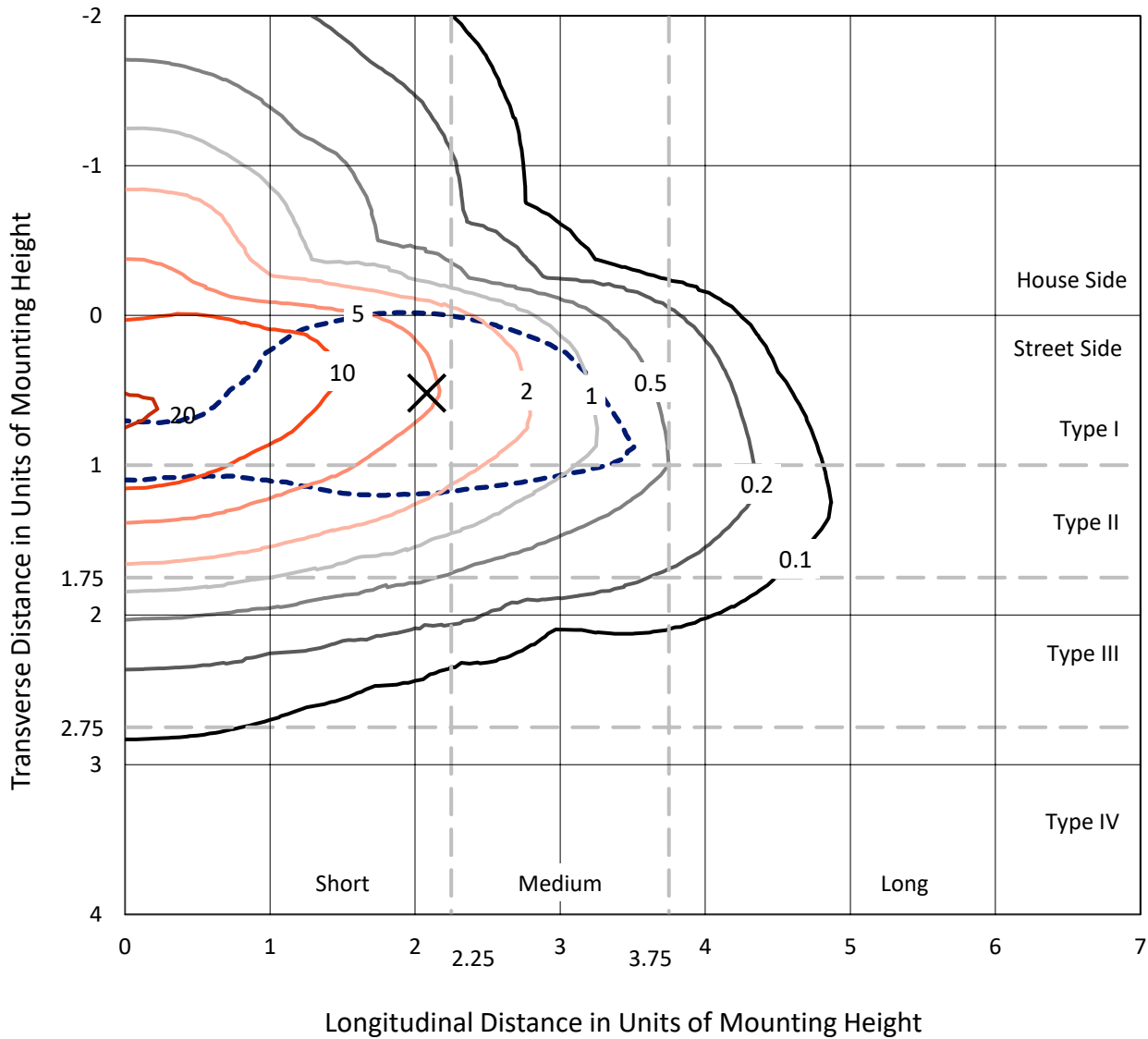
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

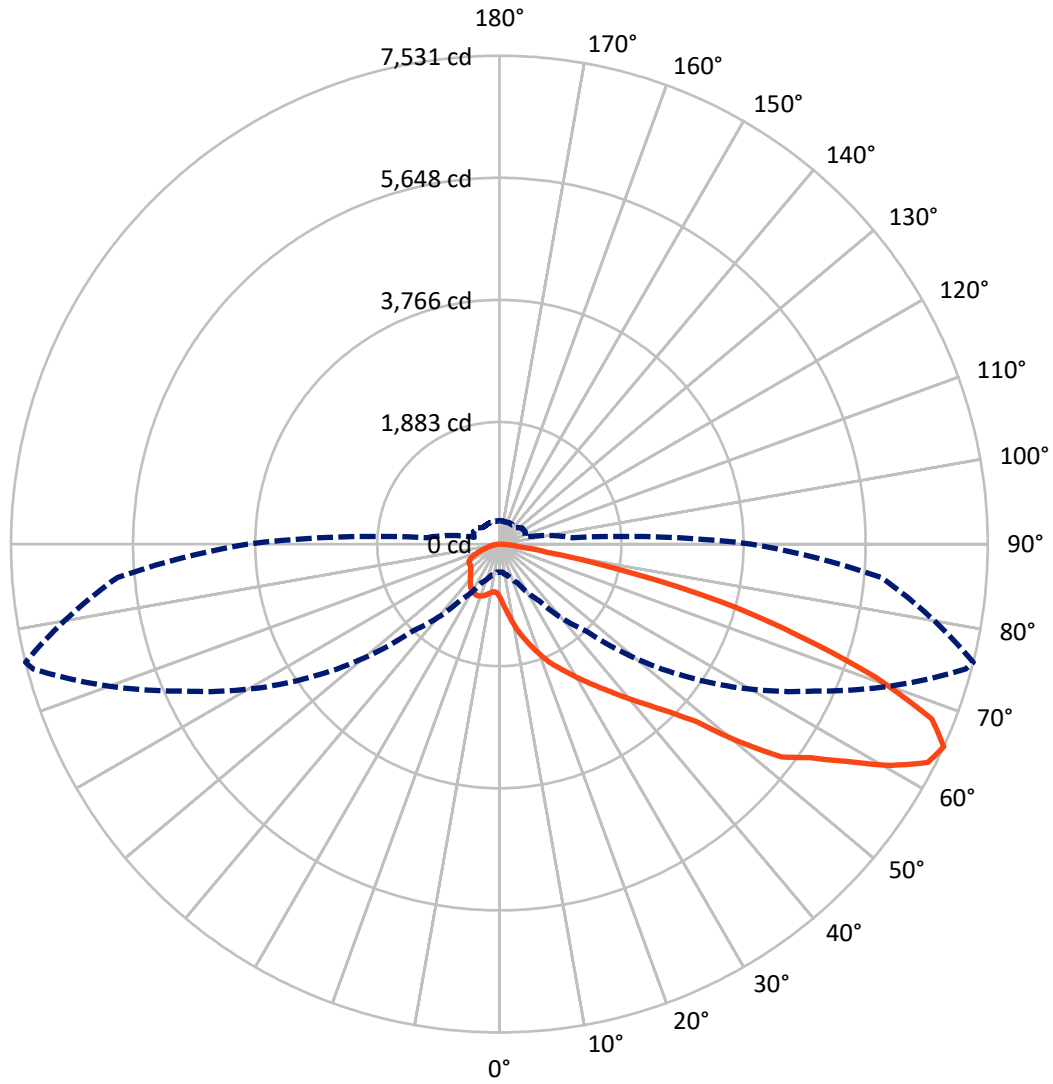
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1435.9	0.0	1435.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	7154.7	0.0	7154.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	8590.7	0.0	8590.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.1
10°-20°	368.1	4.3
20°-30°	717.4	8.4
30°-40°	1199.9	14.0
40°-50°	1718.0	20.0
50°-60°	2033.8	23.7
60°-70°	1691.1	19.7
70°-80°	692.1	8.1
80°-90°	73.7	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°	8590.7	100.0
0°-180°	8590.7	100.0

Coefficient of Utilization



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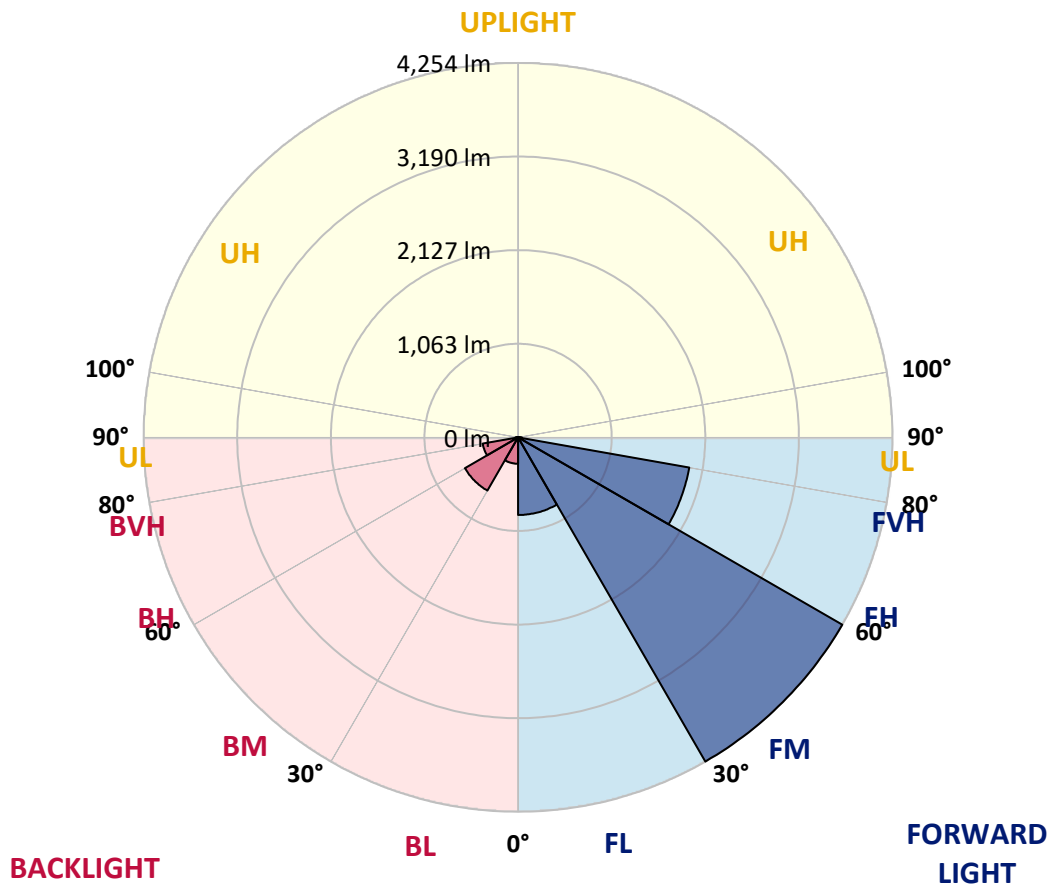
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.8	10.3			
FM (30°-60°)	4253.8	49.5			
FH (60°-80°)	1975.2	23.0			G2/5000
FVH (80°-90°)	43.9	0.5			G1/100
BL (0°-30°)	300.4	3.5	B1/500		
BM (30°-60°)	697.8	8.1	B1/1000		
BH (60°-80°)	408.0	4.7	B1/500		G1/500
BVH (80°-90°)	29.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5
2.5°	1140.2	1144.5	1130.6	1125.7	1093.1	1049.0	1012.2	956.6	905.3	897.5	851.6
5°	1448.2	1430.1	1414.4	1404.2	1358.9	1308.7	1230.8	1126.3	1017.0	1003.7	904.7
7.5°	1631.2	1628.2	1608.9	1602.9	1567.8	1517.7	1437.4	1307.5	1148.7	1127.0	976.6
10°	1778.0	1776.2	1766.5	1772.0	1740.0	1691.0	1613.1	1479.0	1293.0	1271.3	1056.9
12.5°	1906.0	1909.1	1907.2	1927.2	1910.9	1872.8	1791.9	1644.5	1437.4	1413.8	1154.7
15°	1999.6	2002.1	2011.1	2054.6	2063.7	2055.8	1973.7	1807.0	1579.9	1546.1	1255.6
17.5°	2026.2	2031.1	2052.8	2122.9	2171.8	2204.4	2143.4	1972.5	1720.0	1683.2	1358.3
20°	2061.9	2067.3	2089.0	2162.1	2234.0	2308.3	2297.4	2140.4	1861.3	1831.1	1462.1
22.5°	2226.7	2222.5	2212.8	2247.9	2299.2	2391.6	2418.8	2301.6	2007.5	1978.5	1576.9
25°	2544.4	2536.5	2474.9	2442.9	2426.0	2482.2	2530.5	2448.4	2150.0	2106.5	1683.8
27.5°	2894.7	2890.5	2811.9	2735.8	2632.0	2607.8	2636.2	2576.4	2288.3	2244.2	1776.8
30°	3226.2	3213.6	3131.4	3036.0	2897.1	2793.2	2751.6	2702.0	2439.9	2394.0	1885.5
32.5°	3522.8	3506.5	3409.8	3304.2	3158.6	3036.0	2911.6	2835.5	2611.4	2558.3	1996.6
35°	3766.2	3749.9	3650.8	3538.5	3378.4	3287.9	3117.5	2980.4	2786.0	2732.2	2127.7
37.5°	3954.6	3939.5	3836.2	3725.7	3586.2	3514.3	3366.4	3143.5	2987.1	2930.9	2266.6
40°	4060.3	4049.4	3966.7	3879.1	3761.9	3699.7	3633.3	3349.5	3212.4	3156.2	2430.3
42.5°	4092.3	4085.1	4027.1	3981.8	3902.7	3855.6	3893.6	3591.6	3452.7	3403.8	2614.5
45°	4012.0	4012.0	3995.1	4018.0	4021.6	4021.0	4154.5	3865.2	3748.1	3694.3	2874.2
47.5°	3806.6	3819.9	3844.7	3957.6	4076.6	4176.2	4459.5	4230.0	4127.9	4083.8	3242.0
50°	3431.0	3467.2	3551.8	3772.2	4025.3	4278.9	4748.2	4769.3	4866.6	4788.6	3783.1
52.5°	2880.8	2875.4	3091.0	3405.0	3790.9	4283.1	4907.0	5245.2	5506.7	5453.0	4185.3
55°	2289.5	2280.5	2481.6	2914.6	3431.6	4121.3	5002.4	5463.2	5861.8	5813.5	4547.1
57.5°	1753.2	1741.8	1920.5	2311.3	2924.3	3777.6	4984.3	5722.9	6350.4	6325.7	5038.7
60°	1206.7	1192.8	1360.1	1701.9	2324.0	3252.2	4783.8	5856.4	6922.4	6930.8	5564.7
62.5°	724.7	716.9	838.3	1103.4	1671.7	2601.2	4314.5	5775.5	7377.7	7415.8	5902.9
65°	437.3	431.8	503.1	658.3	1060.5	1898.2	3591.0	5361.8	7443.6	7531.1	5910.8
67.5°	318.3	318.9	339.4	401.0	618.4	1226.0	2694.8	4620.1	7100.5	7191.1	5538.1
70°	276.6	277.8	288.7	302.6	373.8	701.8	1752.0	3647.2	6086.5	6156.6	4644.9
72.5°	245.8	245.8	253.1	260.3	292.3	427.6	938.5	2549.2	4803.7	4822.5	3545.1
75°	216.2	214.4	218.0	221.6	253.7	299.0	456.6	1776.2	3548.1	3504.7	2291.3
77.5°	172.1	170.3	170.9	174.5	203.5	213.8	231.3	1109.4	1999.6	1887.3	1012.2
80°	122.6	121.4	128.0	137.1	150.4	131.1	144.9	536.9	793.0	738.0	392.6
82.5°	73.1	75.5	85.8	93.0	103.9	82.1	93.6	179.4	280.8	273.6	159.4
85°	10.3	10.9	30.8	35.6	44.7	32.0	49.5	80.9	112.3	120.2	56.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	14.5	32.0	32.6	13.9
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°	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5
2.5°	828.0	799.6	759.2	725.3	696.9	674.0	654.7	640.2	635.9	629.9	629.9
5°	858.2	806.9	734.4	683.1	653.5	635.9	623.9	617.8	614.8	611.2	609.4
7.5°	899.9	828.0	730.2	678.2	655.3	644.4	636.6	632.9	630.5	626.9	626.9
10°	957.2	859.4	743.5	695.1	677.0	666.1	657.1	651.0	645.6	640.2	639.0
12.5°	1019.5	900.5	767.6	718.1	698.8	685.5	672.8	663.7	657.1	650.4	648.6
15°	1088.3	942.8	793.6	740.4	716.3	698.2	683.1	669.2	660.1	650.4	649.2
17.5°	1155.9	985.6	815.3	755.5	724.7	702.4	680.6	662.5	651.0	640.2	637.2
20°	1236.9	1028.5	830.4	759.8	722.9	693.3	667.4	644.4	631.7	619.0	617.2
22.5°	1311.2	1068.4	837.7	753.7	709.0	674.0	643.8	619.0	605.1	592.5	590.0
25°	1383.0	1103.4	834.6	739.2	687.9	647.4	616.0	591.3	578.0	564.7	561.1
27.5°	1452.5	1127.0	822.6	716.9	661.3	617.8	587.6	565.3	553.8	542.3	537.5
30°	1520.7	1148.7	803.8	687.9	627.5	587.0	562.3	546.6	535.1	523.0	519.4
32.5°	1589.6	1164.4	775.5	654.1	593.1	559.9	544.8	533.3	521.2	509.1	505.5
35°	1659.0	1171.0	741.0	615.4	564.1	542.3	536.9	523.6	507.3	492.8	488.0
37.5°	1741.8	1177.1	698.2	577.4	538.7	533.9	532.7	512.7	493.4	473.5	468.1
40°	1841.4	1184.9	654.1	542.9	518.2	530.9	526.0	498.9	460.2	440.9	434.8
42.5°	1963.4	1199.4	608.2	511.5	503.1	519.4	514.0	465.0	439.1	428.2	425.2
45°	2142.8	1252.6	562.3	486.8	491.6	503.1	494.6	445.1	434.8	427.6	424.0
47.5°	2462.3	1334.1	522.4	468.1	482.5	488.6	456.0	439.7	431.8	422.2	417.9
50°	2794.4	1369.7	490.4	456.6	472.3	475.3	434.8	432.4	427.0	416.7	412.5
52.5°	3019.1	1364.9	471.1	452.4	463.8	452.4	425.2	424.6	420.9	408.9	404.0
55°	3272.8	1373.4	462.6	453.6	460.2	413.7	413.1	414.9	413.1	399.8	397.4
57.5°	3615.2	1399.3	458.4	457.8	457.8	395.0	401.6	404.0	400.4	394.4	392.6
60°	3944.3	1401.1	450.5	462.6	456.0	383.5	388.3	390.7	386.5	385.3	384.7
62.5°	4068.1	1314.2	433.0	459.0	448.7	370.8	374.4	375.7	371.4	374.4	373.8
65°	3883.9	1129.4	404.0	441.5	426.4	359.3	356.9	359.9	352.7	360.6	361.2
67.5°	3448.5	897.5	359.9	408.3	395.0	346.7	341.8	341.8	329.8	341.8	341.2
70°	2780.5	634.1	295.3	355.1	360.6	331.6	329.1	315.3	295.9	314.0	312.2
72.5°	2107.8	455.4	232.5	280.8	310.4	310.4	311.0	287.5	265.1	273.6	266.3
75°	1335.3	320.7	186.0	215.0	243.4	272.4	286.3	242.8	222.9	219.2	215.6
77.5°	601.5	210.8	144.9	164.9	172.7	215.0	261.5	209.0	181.8	173.9	171.5
80°	251.8	131.1	103.3	116.6	106.3	180.6	230.7	162.5	133.5	122.6	114.7
82.5°	110.5	77.9	65.8	62.8	66.4	134.1	172.1	108.1	83.3	112.9	114.1
85°	46.5	41.1	33.8	30.8	27.2	51.3	80.9	42.3	51.9	29.6	24.2
87.5°	10.9	12.1	9.1	6.0	3.6	0.6	0.0	0.0	0.0	0.0	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)