

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: P631455

Luminaire Tested: GWS-SA1F-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631455
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-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8667.1 lumens
Efficiency: N/A
Efficacy: 129.0 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

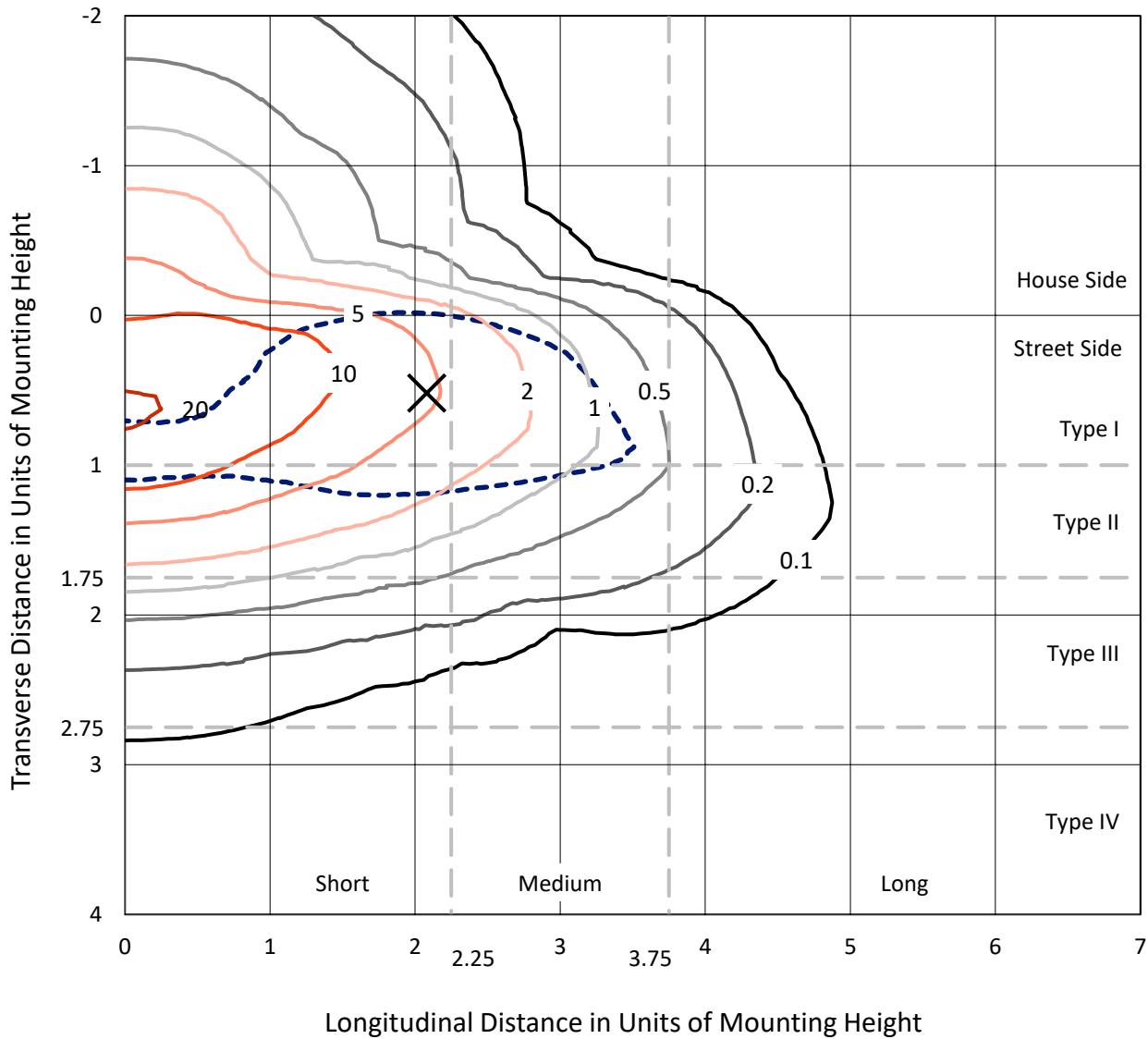
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

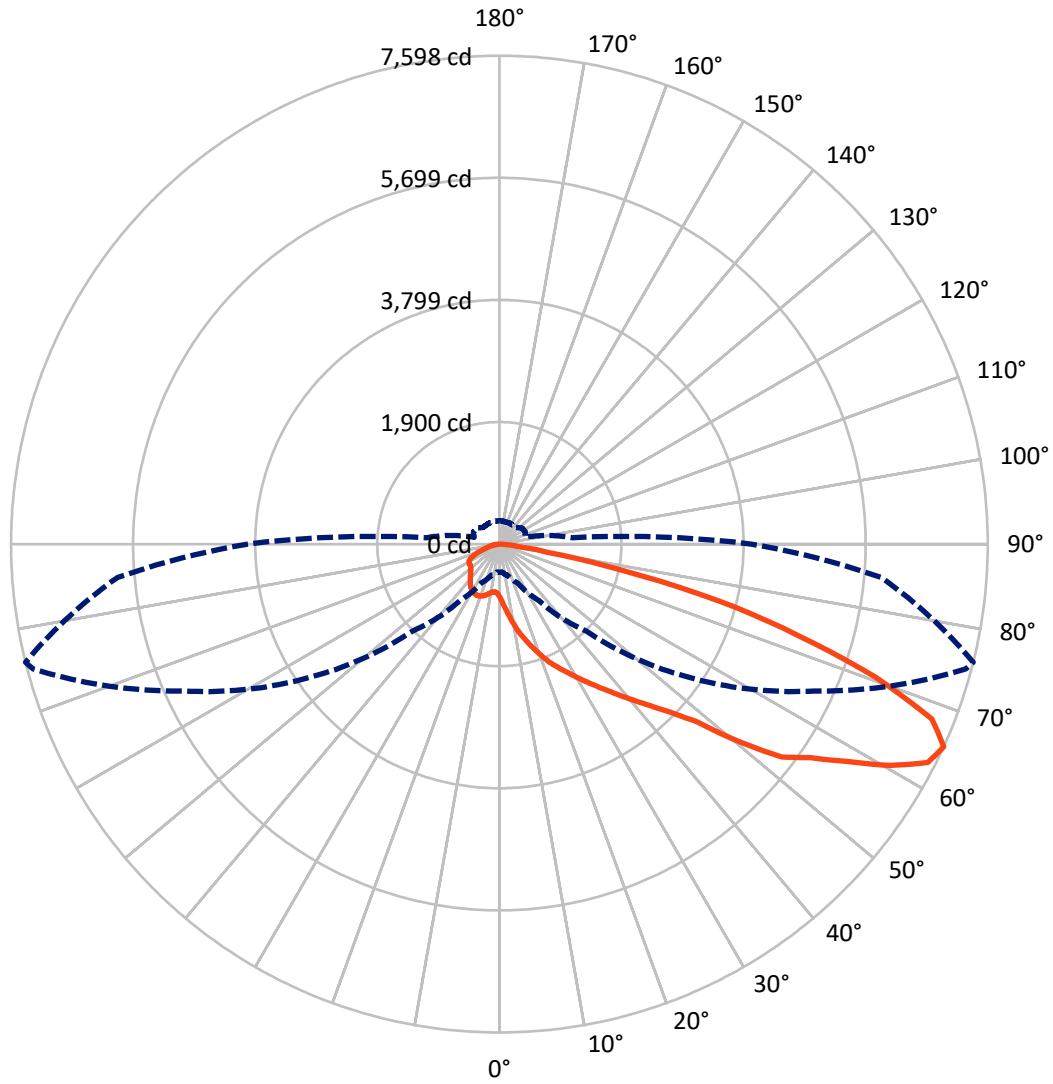
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.3 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	1448.7	0.0	1448.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	7218.4	0.0	7218.4
	% Fixture	83.3	0.0	83.3
Total	Lumens	8667.1	0.0	8667.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.1
10°-20°	371.4	4.3
20°-30°	723.8	8.4
30°-40°	1210.5	14.0
40°-50°	1733.2	20.0
50°-60°	2051.9	23.7
60°-70°	1706.2	19.7
70°-80°	698.2	8.1
80°-90°	74.3	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°	8667.1	100.0
0°-180°	8667.1	100.0

Coefficient of Utilization



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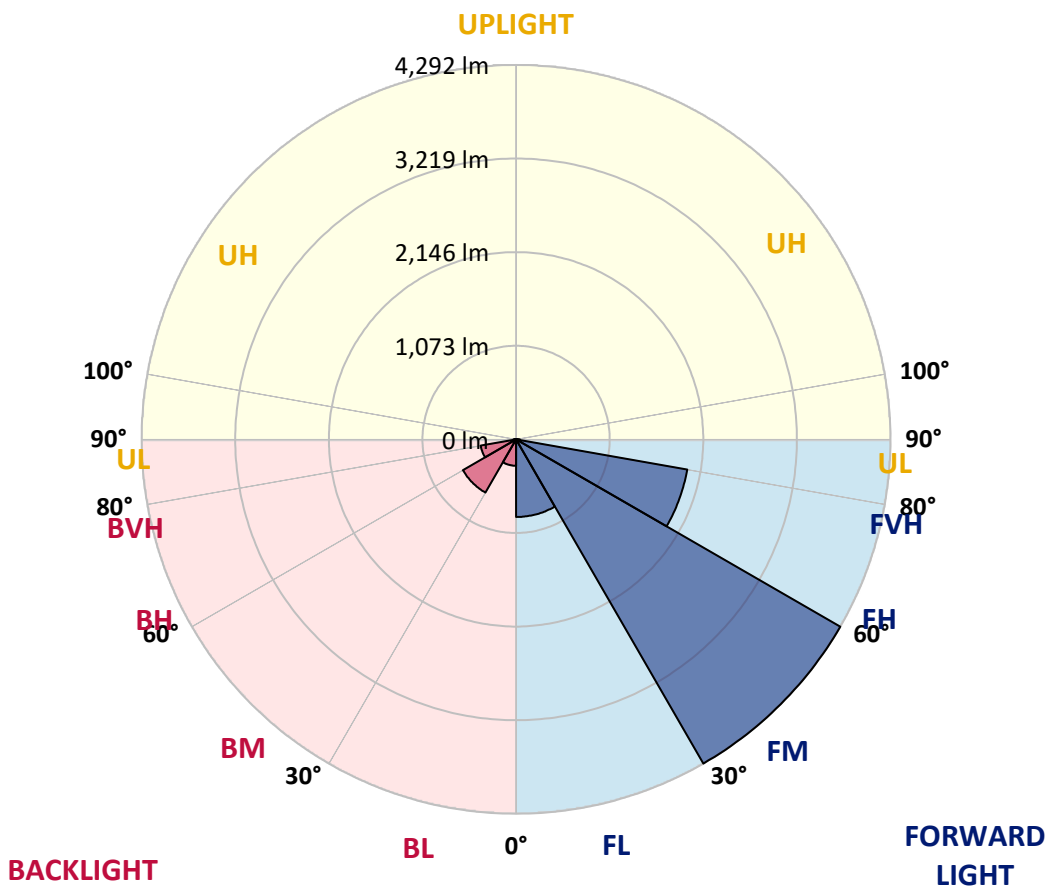
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	889.6	10.3			
FM (30°-60°)	4291.6	49.5			
FH (60°-80°)	1992.8	23.0			G2/5000
FVH (80°-90°)	44.3	0.5			G1/100
BL (0°-30°)	303.1	3.5	B1/500		
BM (30°-60°)	704.1	8.1	B1/1000		
BH (60°-80°)	411.6	4.7	B1/500		G1/500
BVH (80°-90°)	30.0	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°	820.7	820.7	820.7	820.7	820.7	820.7	820.7	820.7	820.7	820.7	820.7
2.5°	1150.4	1154.6	1140.6	1135.8	1102.9	1058.4	1021.2	965.1	913.4	905.4	859.1
5°	1461.1	1442.8	1427.0	1416.6	1371.0	1320.4	1241.8	1136.4	1026.1	1012.7	912.7
7.5°	1645.7	1642.7	1623.2	1617.1	1581.8	1531.2	1450.2	1319.2	1158.9	1137.0	985.3
10°	1793.8	1792.0	1782.2	1787.7	1755.4	1706.1	1627.5	1492.2	1304.5	1282.6	1066.3
12.5°	1923.0	1926.0	1924.2	1944.3	1927.9	1889.5	1807.8	1659.2	1450.2	1426.4	1165.0
15°	2017.4	2019.9	2029.0	2072.9	2082.0	2074.1	1991.2	1823.1	1594.0	1559.8	1266.8
17.5°	2044.2	2049.1	2071.0	2141.7	2191.1	2224.0	2162.4	1990.0	1735.3	1698.2	1370.3
20°	2080.2	2085.7	2107.6	2181.3	2253.8	2328.8	2317.8	2159.4	1877.9	1847.4	1475.1
22.5°	2246.5	2242.3	2232.5	2267.9	2319.6	2412.9	2440.3	2322.1	2025.4	1996.1	1590.9
25°	2567.0	2559.1	2497.0	2464.7	2447.6	2504.3	2553.0	2470.1	2169.1	2125.3	1698.8
27.5°	2920.4	2916.2	2837.0	2760.2	2655.4	2631.0	2659.6	2599.3	2308.7	2264.2	1792.6
30°	3254.9	3242.1	3159.3	3063.0	2922.9	2818.1	2776.0	2726.1	2461.6	2415.3	1902.3
32.5°	3554.1	3537.7	3440.2	3333.5	3186.7	3063.0	2937.5	2860.7	2634.7	2581.0	2014.4
35°	3799.7	3783.2	3683.3	3570.0	3408.5	3317.1	3145.3	3007.0	2810.8	2756.5	2146.6
37.5°	3989.8	3974.5	3870.3	3758.8	3618.1	3545.6	3396.3	3171.5	3013.7	2957.0	2286.7
40°	4096.4	4085.4	4002.0	3913.6	3795.4	3732.6	3665.6	3379.2	3240.9	3184.3	2451.9
42.5°	4128.7	4121.4	4062.9	4017.2	3937.4	3889.8	3928.2	3623.6	3483.4	3434.1	2637.7
45°	4047.7	4047.7	4030.6	4053.7	4057.4	4056.8	4191.5	3899.6	3781.4	3727.2	2899.7
47.5°	3840.5	3853.9	3878.9	3992.8	4112.9	4213.4	4499.2	4267.6	4164.6	4120.2	3270.8
50°	3461.5	3498.1	3583.4	3805.8	4061.1	4317.0	4790.4	4811.7	4909.8	4831.2	3816.7
52.5°	2906.4	2900.9	3118.5	3435.3	3824.6	4321.2	4950.7	5291.9	5555.7	5501.5	4222.5
55°	2309.9	2300.8	2503.7	2940.5	3462.1	4157.9	5046.9	5511.8	5914.0	5865.2	4587.5
57.5°	1768.8	1757.3	1937.6	2331.8	2950.3	3811.2	5028.6	5773.8	6406.9	6381.9	5083.5
60°	1217.4	1203.4	1372.2	1717.0	2344.6	3281.1	4826.4	5908.5	6983.9	6992.5	5614.2
62.5°	731.2	723.3	845.7	1113.2	1686.6	2624.3	4352.9	5826.8	7443.3	7481.7	5955.4
65°	441.1	435.7	507.6	664.1	1070.0	1915.1	3623.0	5409.5	7509.8	7598.1	5963.3
67.5°	321.1	321.7	342.4	404.6	623.9	1236.9	2718.7	4661.2	7163.7	7255.1	5587.4
70°	279.1	280.3	291.3	305.3	377.2	708.0	1767.6	3679.6	6140.6	6211.3	4686.2
72.5°	248.0	248.0	255.3	262.6	294.9	431.4	946.9	2571.9	4846.5	4865.4	3576.7
75°	218.1	216.3	220.0	223.6	255.9	301.6	460.6	1792.0	3579.7	3535.8	2311.7
77.5°	173.7	171.8	172.4	176.1	205.3	215.7	233.4	1119.3	2017.4	1904.1	1021.2
80°	123.7	122.5	129.2	138.3	151.7	132.2	146.2	541.7	800.0	744.6	396.1
82.5°	73.7	76.2	86.5	93.8	104.8	82.9	94.4	181.0	283.3	276.0	160.9
85°	10.4	11.0	31.1	35.9	45.1	32.3	50.0	81.6	113.3	121.3	56.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	14.6	32.3	32.9	14.0
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°	820.7	820.7	820.7	820.7	820.7	820.7	820.7	820.7	820.7	820.7	820.7
2.5°	835.4	806.7	765.9	731.8	703.1	680.0	660.5	645.9	641.6	635.5	635.5
5°	865.8	814.0	740.9	689.1	659.3	641.6	629.4	623.3	620.3	616.6	614.8
7.5°	907.9	835.4	736.7	684.3	661.1	650.1	642.2	638.6	636.1	632.5	632.5
10°	965.8	867.0	750.1	701.3	683.0	672.1	662.9	656.8	651.4	645.9	644.7
12.5°	1028.5	908.5	774.4	724.5	705.0	691.6	678.8	669.6	662.9	656.2	654.4
15°	1098.0	951.1	800.6	747.0	722.6	704.4	689.1	675.1	666.0	656.2	655.0
17.5°	1166.2	994.4	822.6	762.2	731.2	708.6	686.7	668.4	656.8	645.9	642.8
20°	1247.9	1037.7	837.8	766.5	729.3	699.5	673.3	650.1	637.3	624.5	622.7
22.5°	1322.8	1077.9	845.1	760.4	715.3	680.0	649.5	624.5	610.5	597.7	595.3
25°	1395.3	1113.2	842.1	745.8	694.0	653.2	621.5	596.5	583.1	569.7	566.1
27.5°	1465.4	1137.0	829.9	723.3	667.2	623.3	592.9	570.3	558.7	547.2	542.3
30°	1534.2	1158.9	811.0	694.0	633.1	592.3	567.3	551.4	539.8	527.7	524.0
32.5°	1603.7	1174.8	782.4	659.9	598.3	564.8	549.6	538.0	525.8	513.6	510.0
35°	1673.8	1181.5	747.6	620.9	569.1	547.2	541.7	528.3	511.8	497.2	492.3
37.5°	1757.3	1187.5	704.4	582.5	543.5	538.6	537.4	517.3	497.8	477.7	472.2
40°	1857.8	1195.5	659.9	547.8	522.8	535.6	530.7	503.3	464.3	444.8	438.7
42.5°	1980.9	1210.1	613.6	516.1	507.6	524.0	518.5	469.2	443.0	432.0	429.0
45°	2161.8	1263.7	567.3	491.1	496.0	507.6	499.0	449.1	438.7	431.4	427.7
47.5°	2484.2	1346.0	527.1	472.2	486.8	492.9	460.0	443.6	435.7	425.9	421.6
50°	2819.3	1381.9	494.8	460.6	476.5	479.5	438.7	436.3	430.8	420.4	416.2
52.5°	3045.9	1377.0	475.3	456.4	468.0	456.4	429.0	428.3	424.7	412.5	407.6
55°	3301.9	1385.6	466.7	457.6	464.3	417.4	416.8	418.6	416.8	403.4	400.9
57.5°	3647.3	1411.8	462.5	461.9	461.9	398.5	405.2	407.6	404.0	397.9	396.1
60°	3979.4	1413.6	454.5	466.7	460.0	386.9	391.8	394.2	390.0	388.7	388.1
62.5°	4104.3	1325.9	436.9	463.1	452.7	374.1	377.8	379.0	374.7	377.8	377.2
65°	3918.5	1139.4	407.6	445.4	430.2	362.5	360.1	363.1	355.8	363.8	364.4
67.5°	3479.2	905.4	363.1	411.9	398.5	349.7	344.9	344.9	332.7	344.9	344.3
70°	2805.3	639.8	298.0	358.3	363.8	334.5	332.1	318.1	298.6	316.8	315.0
72.5°	2126.5	459.4	234.6	283.3	313.2	313.2	313.8	290.0	267.5	276.0	268.7
75°	1347.2	323.5	187.7	216.9	245.6	274.8	288.8	244.9	224.8	221.2	217.5
77.5°	606.9	212.6	146.2	166.3	174.3	216.9	263.8	210.8	183.4	175.5	173.0
80°	254.1	132.2	104.2	117.6	107.2	182.2	232.8	163.9	134.7	123.7	115.8
82.5°	111.5	78.6	66.4	63.4	67.0	135.3	173.7	109.1	84.1	113.9	115.2
85°	46.9	41.4	34.1	31.1	27.4	51.8	81.6	42.7	52.4	29.9	24.4
87.5°	11.0	12.2	9.1	6.1	3.7	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)