

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: P631785

Luminaire Tested: GWS-SA2B-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631785
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-SA2B-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6940.6 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

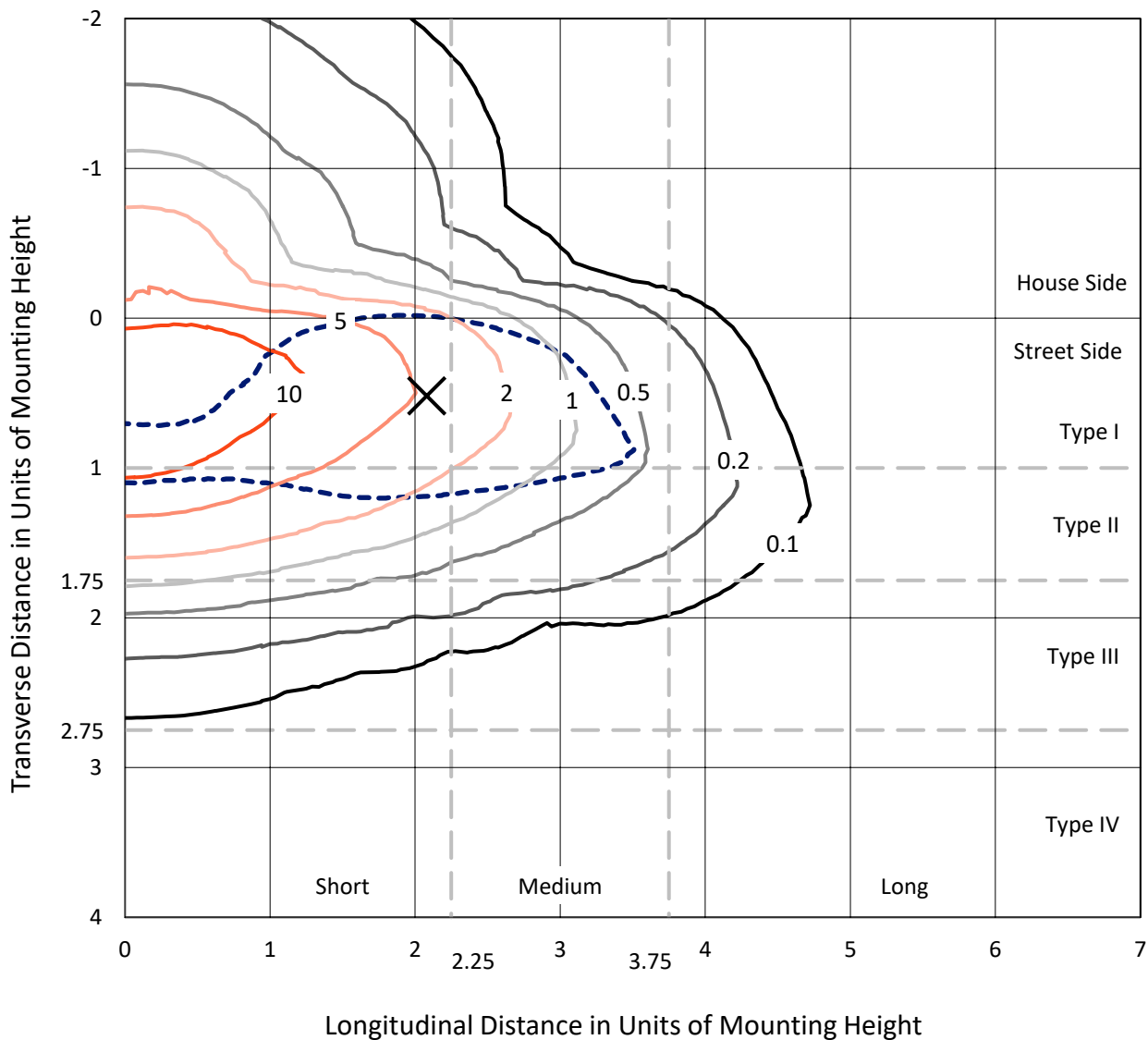
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631785
 CATALOG NUMBER: GWS-SA2B-735-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

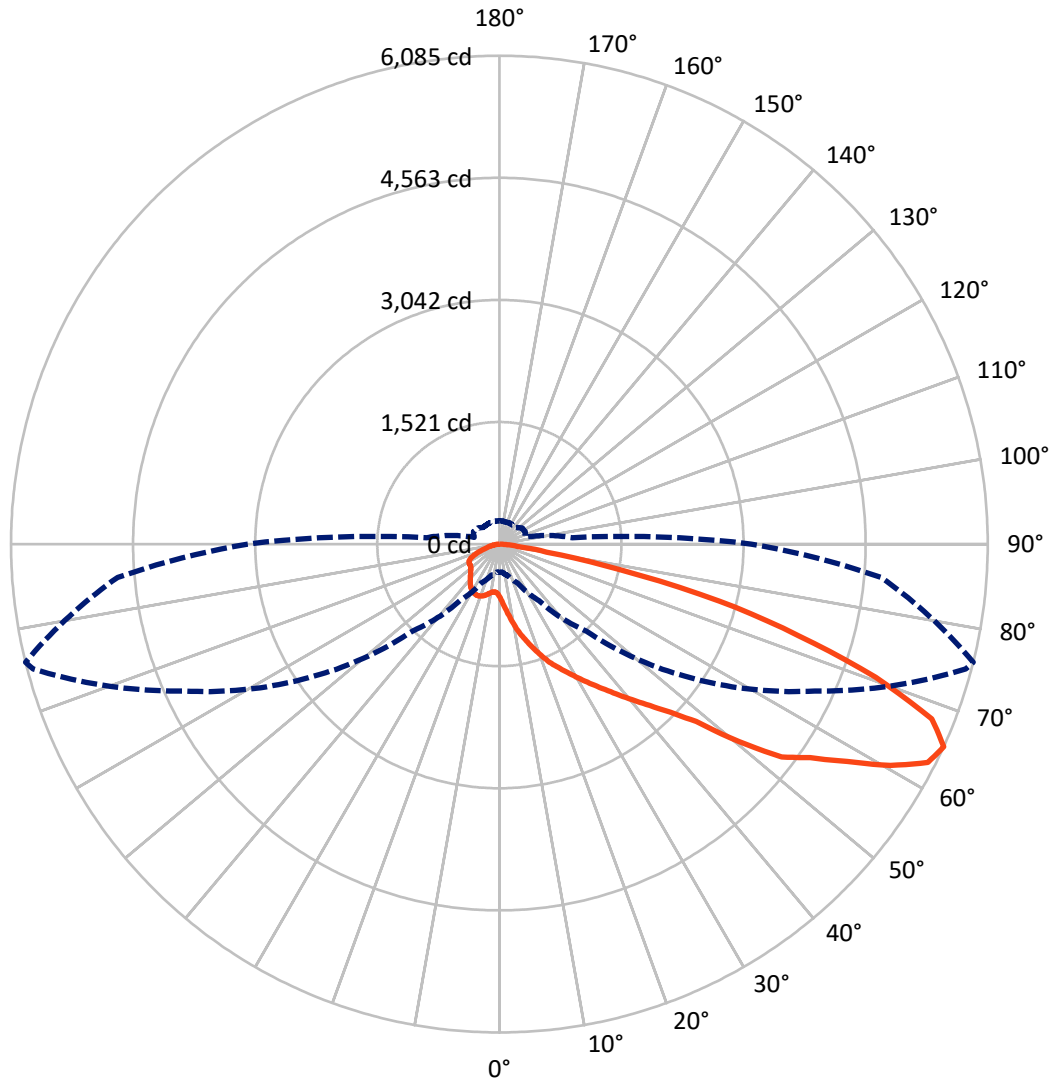
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

REPORT NUMBER: P631785
CATALOG NUMBER: GWS-SA2B-735-U-T2R-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P631785

CATALOG NUMBER: GWS-SA2B-735-U-T2R-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.1	0.0	1160.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	5780.5	0.0	5780.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	6940.6	0.0	6940.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.1
10°-20°	297.4	4.3
20°-30°	579.6	8.4
30°-40°	969.4	14.0
40°-50°	1388.0	20.0
50°-60°	1643.2	23.7
60°-70°	1366.3	19.7
70°-80°	559.1	8.1
80°-90°	59.5	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°	6940.6	100.0
0°-180°	6940.6	100.0

Coefficient of Utilization



REPORT NUMBER: P631785

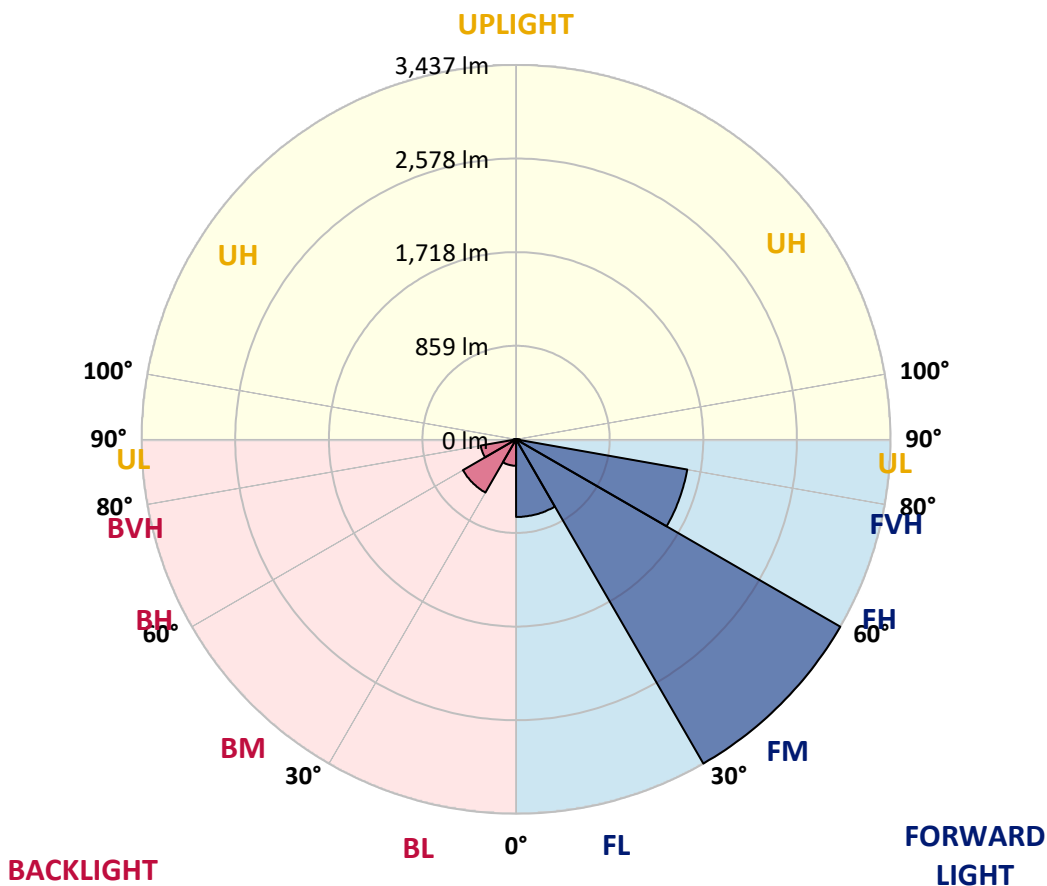
CATALOG NUMBER: GWS-SA2B-735-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.4	10.3			
FM (30°-60°)	3436.7	49.5			
FH (60°-80°)	1595.8	23.0			G1/1800
FVH (80°-90°)	35.5	0.5			G1/100
BL (0°-30°)	242.7	3.5	B1/500		
BM (30°-60°)	563.8	8.1	B1/1000		
BH (60°-80°)	329.6	4.7	B1/500		G1/500
BVH (80°-90°)	24.0	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-G1

Type II Short





REPORT NUMBER: P631785
 CATALOG NUMBER: GWS-SA2B-735-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	921.2	924.6	913.4	909.5	883.2	847.5	817.8	772.9	731.4	725.1	688.0
5°	1170.1	1155.4	1142.7	1134.5	1097.9	1057.4	994.4	910.0	821.7	810.9	730.9
7.5°	1317.9	1315.5	1299.9	1295.0	1266.7	1226.2	1161.3	1056.4	928.1	910.5	789.0
10°	1436.5	1435.0	1427.2	1431.6	1405.7	1366.2	1303.3	1195.0	1044.7	1027.1	853.9
12.5°	1539.9	1542.4	1540.9	1557.0	1543.8	1513.1	1447.7	1328.6	1161.3	1142.3	932.9
15°	1615.6	1617.5	1624.8	1660.0	1667.3	1660.9	1594.6	1459.9	1276.4	1249.1	1014.4
17.5°	1637.0	1640.9	1658.5	1715.1	1754.6	1781.0	1731.7	1593.6	1389.6	1359.9	1097.4
20°	1665.8	1670.2	1687.8	1746.8	1804.9	1864.9	1856.1	1729.2	1503.8	1479.4	1181.3
22.5°	1799.0	1795.6	1787.8	1816.1	1857.6	1932.2	1954.2	1859.5	1621.9	1598.5	1274.0
25°	2055.7	2049.3	1999.6	1973.7	1960.0	2005.4	2044.4	1978.1	1737.1	1701.9	1360.4
27.5°	2338.7	2335.3	2271.8	2210.3	2126.4	2106.9	2129.8	2081.5	1848.8	1813.2	1435.5
30°	2606.6	2596.3	2529.9	2452.9	2340.6	2256.7	2223.0	2183.0	1971.3	1934.2	1523.3
32.5°	2846.1	2833.0	2754.9	2669.5	2551.9	2452.9	2352.3	2290.9	2109.8	2066.9	1613.1
35°	3042.8	3029.6	2949.6	2858.8	2729.5	2656.3	2518.7	2408.0	2250.8	2207.4	1719.0
37.5°	3195.0	3182.8	3099.4	3010.1	2897.4	2839.3	2719.8	2539.7	2413.3	2368.0	1831.2
40°	3280.4	3271.6	3204.8	3134.0	3039.4	2989.1	2935.4	2706.1	2595.3	2550.0	1963.5
42.5°	3306.3	3300.4	3253.6	3217.0	3153.0	3115.0	3145.7	2901.8	2789.5	2750.0	2112.3
45°	3241.4	3241.4	3227.7	3246.2	3249.2	3248.7	3356.5	3122.8	3028.1	2984.7	2322.1
47.5°	3075.5	3086.2	3106.2	3197.4	3293.6	3374.1	3602.9	3417.5	3335.0	3299.4	2619.2
50°	2772.0	2801.2	2869.5	3047.6	3252.1	3457.0	3836.1	3853.2	3931.8	3868.8	3056.4
52.5°	2327.5	2323.1	2497.3	2751.0	3062.8	3460.4	3964.5	4237.7	4449.0	4405.6	3381.4
55°	1849.8	1842.4	2004.9	2354.8	2772.4	3329.7	4041.6	4413.9	4735.9	4696.9	3673.7
57.5°	1416.5	1407.2	1551.6	1867.3	2362.6	3052.0	4026.9	4623.7	5130.6	5110.6	4070.8
60°	974.9	963.7	1098.8	1375.0	1877.6	2627.5	3864.9	4731.5	5592.7	5599.5	4495.8
62.5°	585.5	579.2	677.3	891.5	1350.6	2101.5	3485.8	4666.1	5960.6	5991.4	4769.1
65°	353.3	348.9	406.5	531.8	856.8	1533.6	2901.3	4331.9	6013.8	6084.6	4775.4
67.5°	257.1	257.6	274.2	324.0	499.6	990.5	2177.2	3732.7	5736.7	5809.8	4474.4
70°	223.5	224.5	233.2	244.5	302.0	567.0	1415.5	2946.6	4917.4	4974.0	3752.7
72.5°	198.6	198.6	204.4	210.3	236.2	345.5	758.3	2059.6	3881.0	3896.2	2864.2
75°	174.7	173.2	176.1	179.1	204.9	241.5	368.9	1435.0	2866.6	2831.5	1851.2
77.5°	139.1	137.6	138.1	141.0	164.4	172.7	186.9	896.3	1615.6	1524.8	817.8
80°	99.1	98.1	103.4	110.8	121.5	105.9	117.1	433.8	640.7	596.3	317.2
82.5°	59.0	61.0	69.3	75.1	83.9	66.4	75.6	144.9	226.9	221.0	128.8
85°	8.3	8.8	24.9	28.8	36.1	25.9	40.0	65.4	90.8	97.1	45.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	11.7	25.9	26.3	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631785
 CATALOG NUMBER: GWS-SA2B-735-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	669.0	646.0	613.3	586.0	563.1	544.5	528.9	517.2	513.8	508.9	508.9
5°	693.4	651.9	593.3	551.9	527.9	513.8	504.0	499.2	496.7	493.8	492.3
7.5°	727.0	669.0	589.9	548.0	529.4	520.6	514.3	511.4	509.4	506.5	506.5
10°	773.4	694.3	600.6	561.6	547.0	538.2	530.9	526.0	521.6	517.2	516.2
12.5°	823.6	727.5	620.2	580.2	564.5	553.8	543.6	536.2	530.9	525.5	524.0
15°	879.3	761.7	641.1	598.2	578.7	564.1	551.9	540.6	533.3	525.5	524.5
17.5°	933.9	796.3	658.7	610.4	585.5	567.5	549.9	535.3	526.0	517.2	514.8
20°	999.3	831.0	670.9	613.8	584.1	560.1	539.2	520.6	510.4	500.1	498.7
22.5°	1059.3	863.2	676.8	608.9	572.8	544.5	520.1	500.1	488.9	478.7	476.7
25°	1117.4	891.5	674.3	597.2	555.8	523.1	497.7	477.7	467.0	456.2	453.3
27.5°	1173.5	910.5	664.6	579.2	534.3	499.2	474.8	456.7	447.4	438.2	434.3
30°	1228.6	928.1	649.4	555.8	507.0	474.3	454.3	441.6	432.3	422.6	419.6
32.5°	1284.2	940.7	626.5	528.4	479.2	452.3	440.1	430.8	421.1	411.3	408.4
35°	1340.4	946.1	598.7	497.2	455.7	438.2	433.8	423.0	409.9	398.2	394.3
37.5°	1407.2	951.0	564.1	466.5	435.2	431.3	430.4	414.3	398.6	382.5	378.2
40°	1487.7	957.3	528.4	438.7	418.6	428.9	425.0	403.0	371.8	356.2	351.3
42.5°	1586.3	969.0	491.4	413.3	406.5	419.6	415.2	375.7	354.7	345.9	343.5
45°	1731.2	1012.0	454.3	393.3	397.2	406.5	399.6	359.6	351.3	345.5	342.5
47.5°	1989.3	1077.8	422.1	378.2	389.9	394.7	368.4	355.2	348.9	341.1	337.7
50°	2257.7	1106.6	396.2	368.9	381.6	384.0	351.3	349.4	345.0	336.7	333.3
52.5°	2439.2	1102.7	380.6	365.5	374.7	365.5	343.5	343.0	340.1	330.3	326.4
55°	2644.1	1109.6	373.8	366.4	371.8	334.2	333.7	335.2	333.7	323.0	321.1
57.5°	2920.8	1130.5	370.3	369.9	369.9	319.1	324.5	326.4	323.5	318.6	317.2
60°	3186.7	1132.0	364.0	373.8	368.4	309.8	313.7	315.7	312.3	311.3	310.8
62.5°	3286.7	1061.7	349.8	370.8	362.5	299.6	302.5	303.5	300.1	302.5	302.0
65°	3137.9	912.4	326.4	356.7	344.5	290.3	288.4	290.8	285.0	291.3	291.8
67.5°	2786.1	725.1	290.8	329.8	319.1	280.1	276.2	276.2	266.4	276.2	275.7
70°	2246.5	512.3	238.6	286.9	291.3	267.9	265.9	254.7	239.1	253.7	252.3
72.5°	1702.9	367.9	187.9	226.9	250.8	250.8	251.3	232.3	214.2	221.0	215.2
75°	1078.8	259.1	150.3	173.7	196.6	220.1	231.3	196.2	180.0	177.1	174.2
77.5°	486.0	170.3	117.1	133.2	139.5	173.7	211.3	168.8	146.9	140.5	138.6
80°	203.5	105.9	83.4	94.2	85.9	145.9	186.4	131.3	107.8	99.1	92.7
82.5°	89.3	62.9	53.2	50.7	53.7	108.3	139.1	87.3	67.3	91.2	92.2
85°	37.6	33.2	27.3	24.9	22.0	41.5	65.4	34.2	42.0	23.9	19.5
87.5°	8.8	9.8	7.3	4.9	2.9	0.5	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)