

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: P632555

Luminaire Tested: GWS-SA2C-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632555
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-SA2C-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7497 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

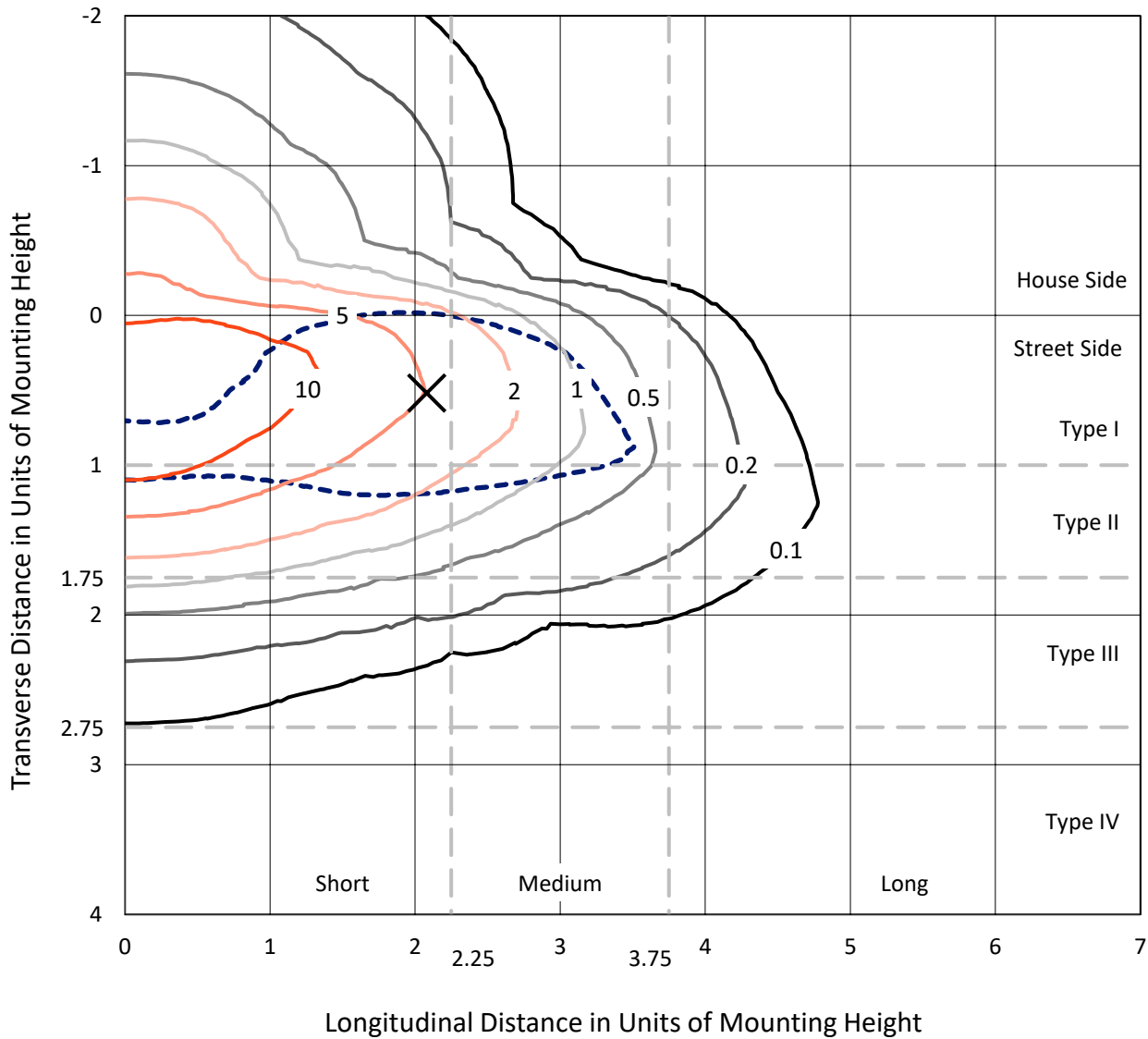
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

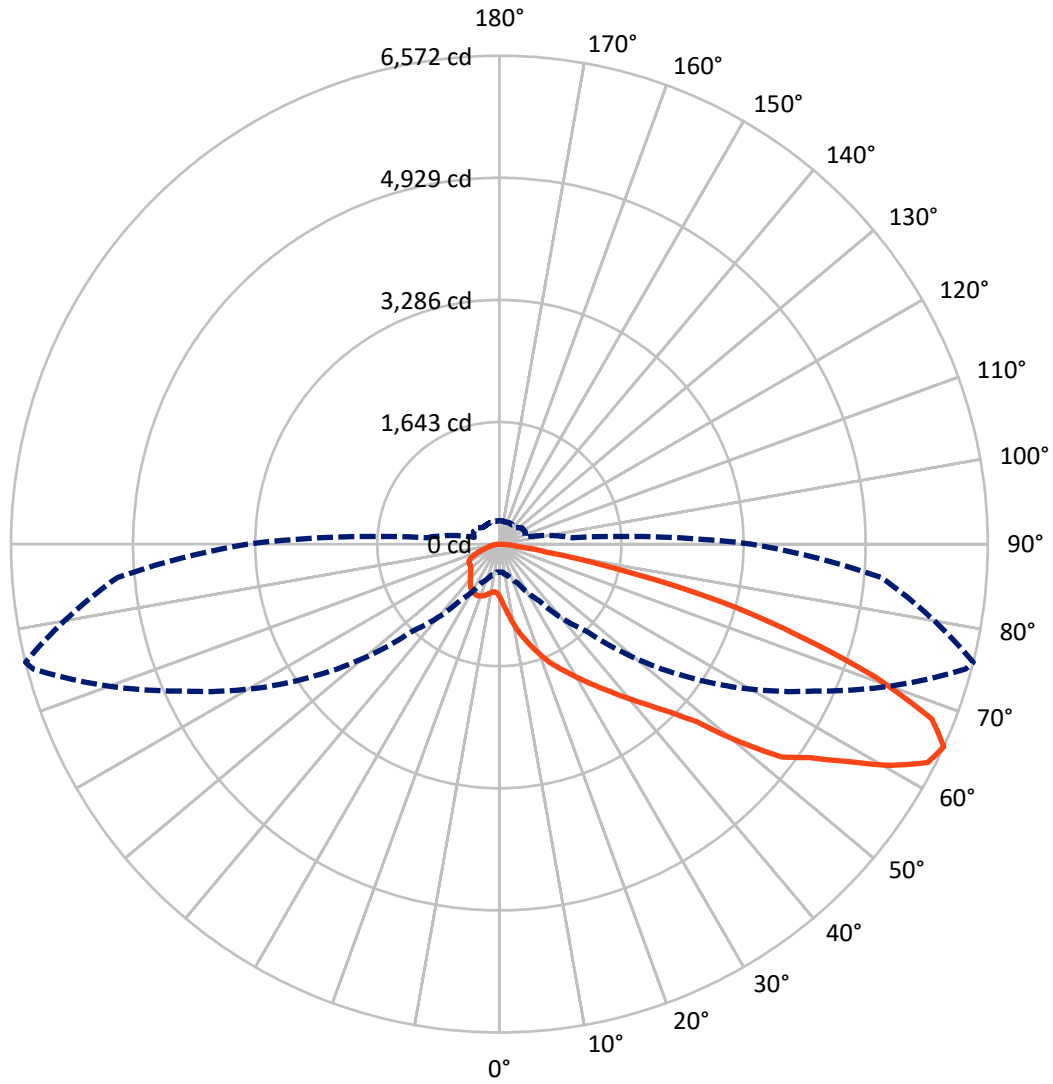
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 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	1253.1	0.0	1253.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	6243.9	0.0	6243.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	7497.0	0.0	7497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.1
10°-20°	321.3	4.3
20°-30°	626.1	8.4
30°-40°	1047.1	14.0
40°-50°	1499.2	20.0
50°-60°	1774.9	23.7
60°-70°	1475.8	19.7
70°-80°	603.9	8.1
80°-90°	64.3	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°	7497.0	100.0
0°-180°	7497.0	100.0

Coefficient of Utilization



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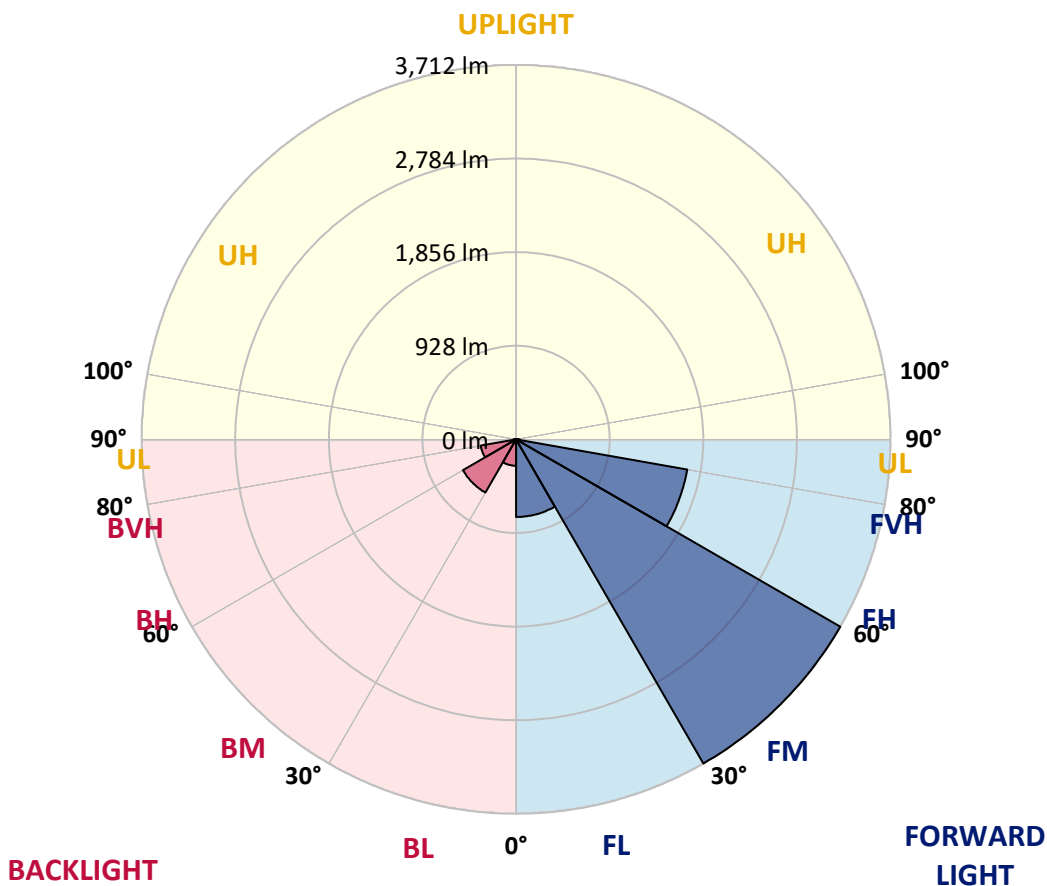
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.5	10.3			
FM (30°-60°)	3712.2	49.5			
FH (60°-80°)	1723.8	23.0			G1/1800
FVH (80°-90°)	38.3	0.5			G1/100
BL (0°-30°)	262.2	3.5	B1/500		
BM (30°-60°)	609.0	8.1	B1/1000		
BH (60°-80°)	356.0	4.7	B1/500		G1/500
BVH (80°-90°)	25.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	709.9	709.9	709.9	709.9	709.9	709.9	709.9	709.9	709.9	709.9	709.9
2.5°	995.1	998.8	986.6	982.4	954.0	915.5	883.3	834.8	790.0	783.2	743.1
5°	1263.9	1248.1	1234.4	1225.4	1185.9	1142.1	1074.1	983.0	887.6	876.0	789.5
7.5°	1423.6	1420.9	1404.1	1398.8	1368.2	1324.5	1254.4	1141.1	1002.5	983.5	852.2
10°	1551.6	1550.1	1541.6	1546.4	1518.4	1475.7	1407.8	1290.7	1128.4	1109.4	922.3
12.5°	1663.4	1666.0	1664.4	1681.8	1667.6	1634.4	1563.8	1435.2	1254.4	1233.8	1007.7
15°	1745.1	1747.2	1755.1	1793.0	1800.9	1794.1	1722.4	1576.9	1378.8	1349.3	1095.7
17.5°	1768.3	1772.5	1791.4	1852.6	1895.3	1923.7	1870.5	1721.3	1501.0	1468.9	1185.3
20°	1799.4	1804.1	1823.1	1886.8	1949.6	2014.4	2004.9	1867.9	1624.4	1598.0	1276.0
22.5°	1943.2	1939.5	1931.1	1961.7	2006.5	2087.1	2110.8	2008.6	1751.9	1726.6	1376.1
25°	2220.5	2213.6	2159.9	2131.9	2117.2	2166.2	2208.3	2136.7	1876.3	1838.4	1469.4
27.5°	2526.2	2522.5	2454.0	2387.5	2296.9	2275.8	2300.6	2248.4	1997.0	1958.5	1550.6
30°	2815.5	2804.4	2732.8	2649.5	2528.3	2437.6	2401.2	2358.0	2129.3	2089.2	1645.5
32.5°	3074.3	3060.1	2975.7	2883.5	2756.5	2649.5	2540.9	2474.5	2279.0	2232.6	1742.4
35°	3286.7	3272.5	3186.0	3088.0	2948.3	2869.3	2720.6	2601.0	2431.3	2384.4	1856.8
37.5°	3451.1	3438.0	3347.8	3251.4	3129.6	3066.9	2937.8	2743.3	2606.8	2557.8	1978.0
40°	3543.4	3533.9	3461.7	3385.3	3283.0	3228.7	3170.7	2923.0	2803.4	2754.4	2120.9
42.5°	3571.3	3565.0	3514.4	3474.8	3405.8	3364.7	3397.9	3134.4	3013.2	2970.5	2281.6
45°	3501.2	3501.2	3486.4	3506.5	3509.6	3509.1	3625.6	3373.1	3270.9	3224.0	2508.2
47.5°	3322.0	3333.6	3355.2	3453.8	3557.6	3644.6	3891.7	3691.5	3602.4	3563.9	2829.2
50°	2994.2	3025.8	3099.6	3292.0	3512.8	3734.2	4143.7	4162.1	4247.0	4179.0	3301.4
52.5°	2514.0	2509.3	2697.4	2971.5	3308.3	3737.8	4282.3	4577.4	4805.7	4758.7	3652.5
55°	1998.1	1990.1	2165.7	2543.5	2994.7	3596.6	4365.6	4767.7	5115.6	5073.4	3968.2
57.5°	1530.0	1520.0	1676.0	2017.0	2552.0	3296.7	4349.8	4994.3	5541.9	5520.3	4397.2
60°	1053.0	1040.9	1186.9	1485.2	2028.1	2838.2	4174.8	5110.8	6041.1	6048.4	4856.3
62.5°	632.5	625.6	731.5	962.9	1458.9	2270.0	3765.3	5040.2	6438.5	6471.7	5151.4
65°	381.6	376.8	439.0	574.5	925.5	1656.5	3133.8	4679.2	6495.9	6572.3	5158.3
67.5°	277.8	278.3	296.2	350.0	539.7	1069.9	2351.7	4031.9	6196.5	6275.6	4833.1
70°	241.4	242.4	251.9	264.1	326.2	612.4	1529.0	3182.9	5311.6	5372.8	4053.6
72.5°	214.5	214.5	220.8	227.2	255.1	373.2	819.0	2224.7	4192.2	4208.5	3093.8
75°	188.7	187.1	190.3	193.4	221.4	260.9	398.5	1550.1	3096.4	3058.5	1999.6
77.5°	150.2	148.6	149.2	152.3	177.6	186.6	201.9	968.2	1745.1	1647.0	883.3
80°	107.0	105.9	111.7	119.6	131.2	114.4	126.5	468.5	692.0	644.1	342.6
82.5°	63.8	65.9	74.8	81.2	90.7	71.7	81.7	156.5	245.1	238.8	139.1
85°	9.0	9.5	26.9	31.1	39.0	27.9	43.2	70.6	98.0	104.9	49.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	12.6	27.9	28.5	12.1
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°	709.9	709.9	709.9	709.9	709.9	709.9	709.9	709.9	709.9	709.9	709.9
2.5°	722.6	697.8	662.5	633.0	608.2	588.2	571.3	558.7	555.0	549.7	549.7
5°	748.9	704.1	640.9	596.1	570.3	555.0	544.4	539.2	536.5	533.4	531.8
7.5°	785.3	722.6	637.2	591.9	571.9	562.4	555.5	552.3	550.2	547.1	547.1
10°	835.4	750.0	648.8	606.6	590.8	581.3	573.4	568.2	563.4	558.7	557.6
12.5°	889.7	785.8	669.9	626.7	609.8	598.2	587.1	579.2	573.4	567.6	566.1
15°	949.7	822.7	692.5	646.2	625.1	609.3	596.1	584.0	576.1	567.6	566.6
17.5°	1008.8	860.1	711.5	659.3	632.5	613.0	594.0	578.2	568.2	558.7	556.0
20°	1079.4	897.6	724.7	663.0	630.9	605.1	582.4	562.4	551.3	540.2	538.6
22.5°	1144.2	932.4	731.0	657.8	618.8	588.2	561.8	540.2	528.1	517.0	514.9
25°	1206.9	962.9	728.4	645.1	600.3	565.0	537.6	516.0	504.4	492.8	489.6
27.5°	1267.6	983.5	717.8	625.6	577.1	539.2	512.8	493.3	483.3	473.3	469.1
30°	1327.1	1002.5	701.5	600.3	547.6	512.3	490.7	477.0	467.0	456.4	453.3
32.5°	1387.2	1016.2	676.7	570.8	517.6	488.6	475.4	465.4	454.8	444.3	441.1
35°	1447.8	1022.0	646.7	537.1	492.3	473.3	468.5	457.0	442.7	430.1	425.9
37.5°	1520.0	1027.2	609.3	503.9	470.1	465.9	464.9	447.5	430.6	413.2	408.5
40°	1607.0	1034.1	570.8	473.8	452.2	463.3	459.1	435.3	401.6	384.7	379.5
42.5°	1713.4	1046.7	530.7	446.4	439.0	453.3	448.5	405.8	383.2	373.7	371.0
45°	1870.0	1093.1	490.7	424.8	429.0	439.0	431.7	388.4	379.5	373.2	370.0
47.5°	2148.8	1164.3	455.9	408.5	421.1	426.4	397.9	383.7	376.8	368.4	364.7
50°	2438.7	1195.4	428.0	398.5	412.2	414.8	379.5	377.4	372.6	363.7	360.0
52.5°	2634.7	1191.1	411.1	394.8	404.8	394.8	371.0	370.5	367.4	356.8	352.6
55°	2856.1	1198.5	403.7	395.8	401.6	361.0	360.5	362.1	360.5	348.9	346.8
57.5°	3154.9	1221.2	400.0	399.5	399.5	344.7	350.5	352.6	349.4	344.2	342.6
60°	3442.2	1222.8	393.2	403.7	397.9	334.7	338.9	341.0	337.3	336.3	335.7
62.5°	3550.2	1146.9	377.9	400.6	391.6	323.6	326.8	327.8	324.1	326.8	326.2
65°	3389.5	985.6	352.6	385.3	372.1	313.6	311.5	314.1	307.8	314.6	315.2
67.5°	3009.5	783.2	314.1	356.3	344.7	302.5	298.3	298.3	287.8	298.3	297.8
70°	2426.5	553.4	257.7	309.9	314.6	289.4	287.2	275.1	258.3	274.1	272.5
72.5°	1839.4	397.4	202.9	245.1	270.9	270.9	271.4	250.9	231.4	238.8	232.4
75°	1165.3	279.9	162.3	187.6	212.4	237.7	249.8	211.9	194.5	191.3	188.2
77.5°	524.9	183.9	126.5	143.9	150.7	187.6	228.2	182.4	158.6	151.8	149.7
80°	219.8	114.4	90.1	101.7	92.8	157.6	201.3	141.8	116.5	107.0	100.1
82.5°	96.5	68.0	57.4	54.8	58.0	117.0	150.2	94.3	72.7	98.6	99.6
85°	40.6	35.8	29.5	26.9	23.7	44.8	70.6	36.9	45.3	25.8	21.1
87.5°	9.5	10.5	7.9	5.3	3.2	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)