

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: P629807

Luminaire Tested: GWS-SA1C-735-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629807  
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-SA1C-735-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

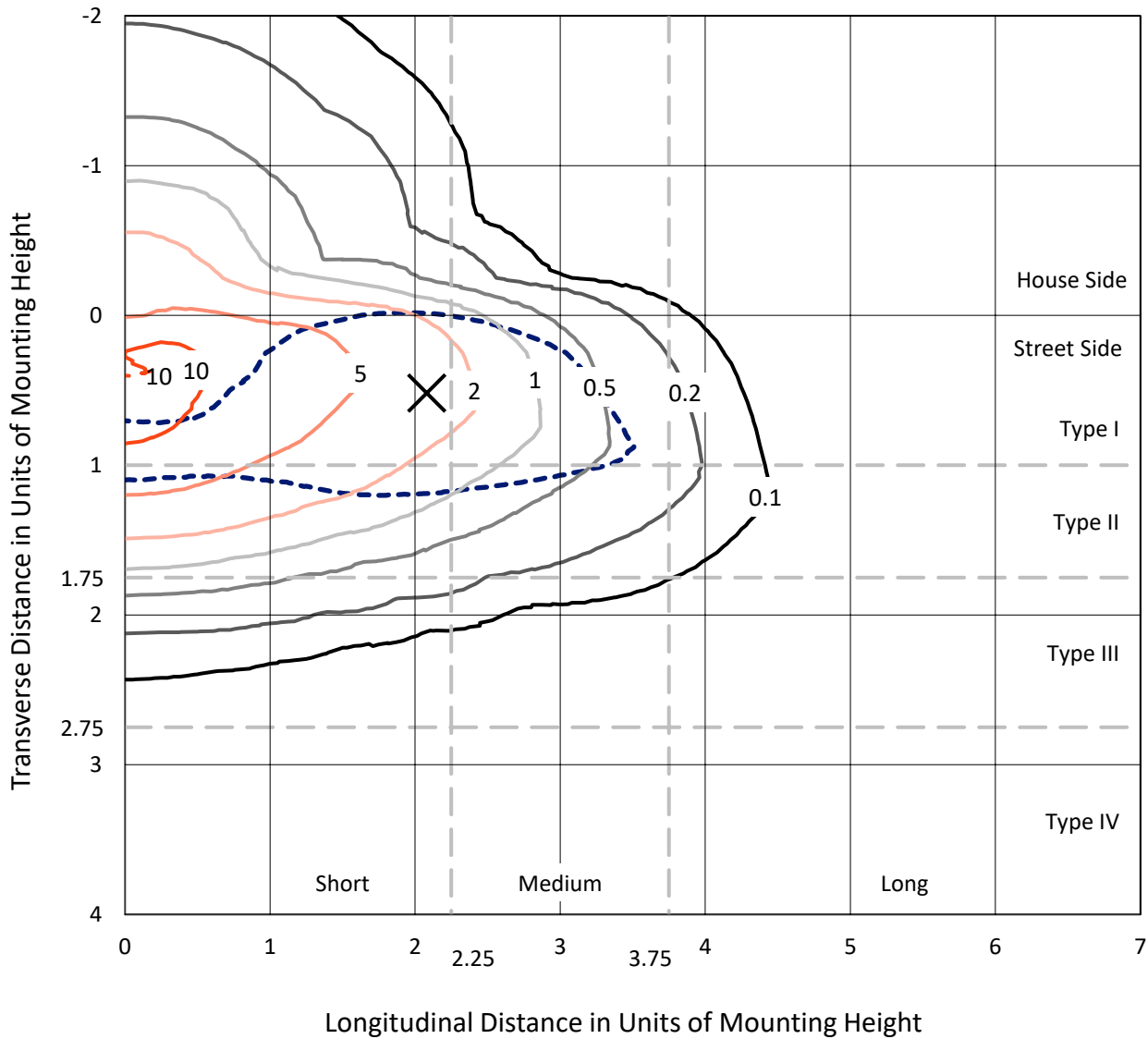
Lumens per Lamp: N/A  
Luminaire Lumens: 4834 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

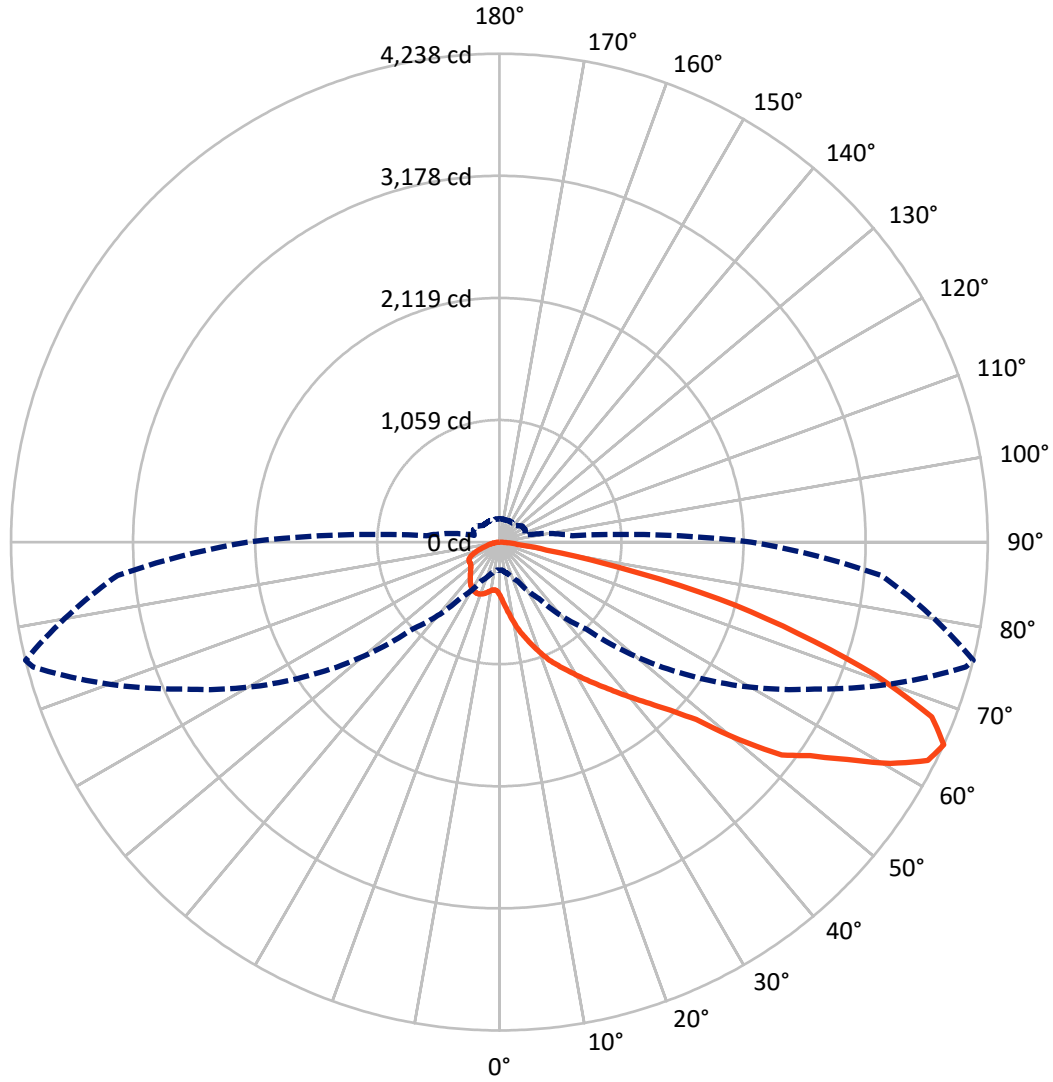
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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
<b>House Side</b>	Lumens	808.0	0.0	808.0
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	4026.0	0.0	4026.0
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	4834.0	0.0	4834.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	1.1
10°-20°	207.1	4.3
20°-30°	403.7	8.4
30°-40°	675.2	14.0
40°-50°	966.7	20.0
50°-60°	1144.4	23.7
60°-70°	951.6	19.7
70°-80°	389.4	8.1
80°-90°	41.5	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°	4834.0	100.0
0°-180°	4834.0	100.0

**Coefficient of Utilization**



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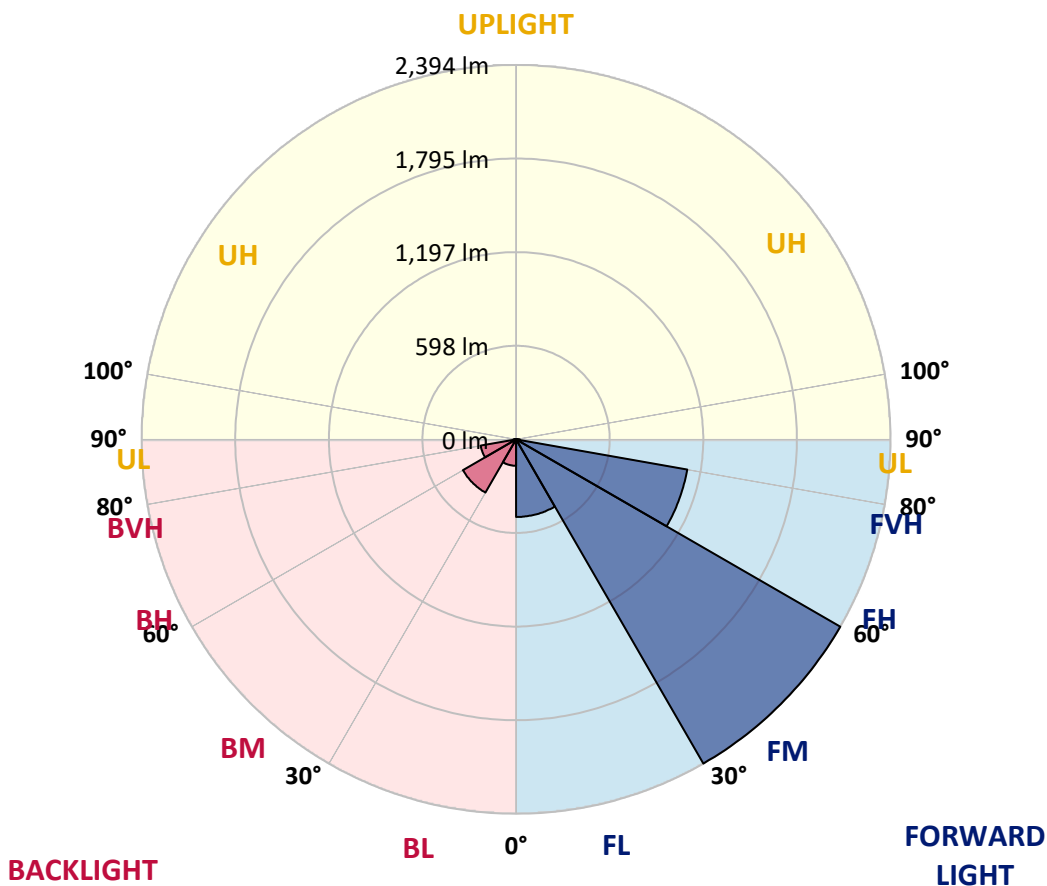
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.2	10.3			
FM (30°-60°)	2393.6	49.5			
FH (60°-80°)	1111.5	23.0			G1/1800
FVH (80°-90°)	24.7	0.5			G1/100
BL (0°-30°)	169.0	3.5	B1/500		
BM (30°-60°)	392.7	8.1	B1/1000		
BH (60°-80°)	229.6	4.7	B1/500		G1/500
BVH (80°-90°)	16.7	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8
2.5°	641.6	644.0	636.2	633.5	615.1	590.3	569.6	538.3	509.4	505.0	479.2
5°	814.9	804.7	795.9	790.1	764.6	736.4	692.6	633.8	572.3	564.8	509.1
7.5°	917.9	916.2	905.3	901.9	882.2	854.0	808.8	735.7	646.4	634.1	549.5
10°	1000.5	999.5	994.0	997.1	979.1	951.5	907.7	832.3	727.6	715.4	594.7
12.5°	1072.5	1074.2	1073.2	1084.4	1075.2	1053.8	1008.3	925.4	808.8	795.6	649.8
15°	1125.2	1126.6	1131.7	1156.1	1161.2	1156.8	1110.6	1016.8	889.0	870.0	706.5
17.5°	1140.2	1142.9	1155.1	1194.5	1222.1	1240.4	1206.1	1109.9	967.9	947.1	764.3
20°	1160.2	1163.3	1175.5	1216.6	1257.1	1298.9	1292.7	1204.4	1047.4	1030.4	822.7
22.5°	1253.0	1250.6	1245.2	1264.9	1293.8	1345.8	1361.1	1295.1	1129.6	1113.3	887.3
25°	1431.7	1427.3	1392.7	1374.6	1365.1	1396.7	1423.9	1377.7	1209.8	1185.4	947.5
27.5°	1628.8	1626.5	1582.3	1539.5	1481.0	1467.4	1483.4	1449.7	1287.6	1262.8	999.8
30°	1815.4	1808.3	1762.1	1708.4	1630.2	1571.8	1548.3	1520.4	1372.9	1347.1	1061.0
32.5°	1982.3	1973.1	1918.7	1859.3	1777.4	1708.4	1638.4	1595.5	1469.5	1439.6	1123.5
35°	2119.2	2110.1	2054.3	1991.1	1901.1	1850.1	1754.2	1677.1	1567.7	1537.4	1197.2
37.5°	2225.3	2216.8	2158.7	2096.5	2018.0	1977.5	1894.3	1768.9	1680.8	1649.2	1275.4
40°	2284.7	2278.6	2232.1	2182.8	2116.9	2081.8	2044.5	1884.7	1807.6	1776.0	1367.5
42.5°	2302.7	2298.7	2266.0	2240.6	2196.0	2169.5	2190.9	2021.0	1942.9	1915.3	1471.2
45°	2257.5	2257.5	2248.0	2260.9	2263.0	2262.6	2337.7	2175.0	2109.0	2078.8	1617.3
47.5°	2142.0	2149.5	2163.4	2227.0	2293.9	2350.0	2509.4	2380.2	2322.8	2298.0	1824.3
50°	1930.6	1951.0	1998.6	2122.6	2265.0	2407.8	2671.8	2683.7	2738.4	2694.6	2128.7
52.5°	1621.0	1618.0	1739.3	1916.0	2133.2	2410.1	2761.2	2951.5	3098.6	3068.4	2355.1
55°	1288.3	1283.2	1396.4	1640.1	1931.0	2319.1	2814.9	3074.2	3298.5	3271.3	2558.6
57.5°	986.6	980.1	1080.7	1300.6	1645.5	2125.7	2804.7	3220.3	3573.4	3559.5	2835.3
60°	679.0	671.2	765.3	957.7	1307.7	1830.0	2691.9	3295.4	3895.2	3900.0	3131.3
62.5°	407.8	403.4	471.7	620.9	940.7	1463.7	2427.8	3249.9	4151.5	4172.9	3321.6
65°	246.0	243.0	283.1	370.4	596.8	1068.1	2020.7	3017.1	4188.5	4237.8	3326.0
67.5°	179.1	179.4	191.0	225.7	348.0	689.9	1516.4	2599.8	3995.5	4046.5	3116.3
70°	155.6	156.3	162.4	170.3	210.4	394.9	985.9	2052.3	3424.9	3464.3	2613.7
72.5°	138.3	138.3	142.4	146.5	164.5	240.6	528.1	1434.5	2703.1	2713.6	1994.8
75°	121.7	120.6	122.7	124.7	142.7	168.2	256.9	999.5	1996.5	1972.1	1289.3
77.5°	96.9	95.8	96.2	98.2	114.5	120.3	130.2	624.3	1125.2	1062.0	569.6
80°	69.0	68.3	72.0	77.1	84.6	73.7	81.6	302.1	446.2	415.3	220.9
82.5°	41.1	42.5	48.3	52.3	58.5	46.2	52.7	100.9	158.0	153.9	89.7
85°	5.8	6.1	17.3	20.1	25.1	18.0	27.9	45.5	63.2	67.6	31.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	8.2	18.0	18.4	7.8
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°	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8
2.5°	465.9	449.9	427.2	408.1	392.2	379.3	368.4	360.2	357.8	354.5	354.5
5°	482.9	454.0	413.2	384.4	367.7	357.8	351.1	347.7	346.0	343.9	342.9
7.5°	506.4	465.9	410.9	381.6	368.7	362.6	358.2	356.2	354.8	352.8	352.8
10°	538.6	483.6	418.3	391.2	381.0	374.8	369.7	366.3	363.3	360.2	359.5
12.5°	573.6	506.7	431.9	404.1	393.2	385.7	378.6	373.5	369.7	366.0	365.0
15°	612.4	530.5	446.5	416.6	403.0	392.9	384.4	376.5	371.4	366.0	365.3
17.5°	650.5	554.6	458.8	425.1	407.8	395.2	383.0	372.8	366.3	360.2	358.5
20°	696.0	578.7	467.3	427.5	406.8	390.1	375.5	362.6	355.5	348.3	347.3
22.5°	737.8	601.2	471.4	424.1	399.0	379.3	362.3	348.3	340.5	333.4	332.0
25°	778.2	620.9	469.7	416.0	387.1	364.3	346.6	332.7	325.2	317.7	315.7
27.5°	817.3	634.1	462.9	403.4	372.1	347.7	330.7	318.1	311.6	305.2	302.5
30°	855.7	646.4	452.3	387.1	353.1	330.3	316.4	307.6	301.1	294.3	292.3
32.5°	894.5	655.2	436.4	368.0	333.7	315.0	306.5	300.1	293.3	286.5	284.4
35°	933.5	658.9	417.0	346.3	317.4	305.2	302.1	294.6	285.5	277.3	274.6
37.5°	980.1	662.3	392.9	324.9	303.1	300.4	299.7	288.5	277.6	266.4	263.4
40°	1036.2	666.8	368.0	305.5	291.6	298.7	296.0	280.7	259.0	248.1	244.7
42.5°	1104.8	674.9	342.2	287.8	283.1	292.3	289.2	261.7	247.1	240.9	239.2
45°	1205.7	704.8	316.4	273.9	276.6	283.1	278.3	250.5	244.7	240.6	238.6
47.5°	1385.5	750.7	294.0	263.4	271.5	274.9	256.6	247.4	243.0	237.5	235.2
50°	1572.4	770.8	275.9	256.9	265.8	267.5	244.7	243.3	240.3	234.5	232.1
52.5°	1698.9	768.0	265.1	254.5	261.0	254.5	239.2	238.9	236.9	230.1	227.4
55°	1841.6	772.8	260.3	255.2	259.0	232.8	232.4	233.5	232.4	225.0	223.6
57.5°	2034.3	787.4	257.9	257.6	257.6	222.3	226.0	227.4	225.3	221.9	220.9
60°	2219.5	788.4	253.5	260.3	256.6	215.8	218.5	219.9	217.5	216.8	216.5
62.5°	2289.1	739.5	243.7	258.3	252.5	208.7	210.7	211.4	209.0	210.7	210.4
65°	2185.5	635.5	227.4	248.4	239.9	202.2	200.8	202.5	198.5	202.9	203.2
67.5°	1940.5	505.0	202.5	229.7	222.3	195.1	192.3	192.3	185.6	192.3	192.0
70°	1564.6	356.8	166.2	199.8	202.9	186.6	185.2	177.4	166.5	176.7	175.7
72.5°	1186.0	256.2	130.8	158.0	174.7	174.7	175.0	161.8	149.2	153.9	149.9
75°	751.4	180.5	104.7	121.0	137.0	153.3	161.1	136.6	125.4	123.4	121.3
77.5°	338.5	118.6	81.6	92.8	97.2	121.0	147.1	117.6	102.3	97.9	96.5
80°	141.7	73.7	58.1	65.6	59.8	101.6	129.8	91.4	75.1	69.0	64.6
82.5°	62.2	43.8	37.0	35.3	37.4	75.4	96.9	60.8	46.9	63.5	64.2
85°	26.2	23.1	19.0	17.3	15.3	28.9	45.5	23.8	29.2	16.7	13.6
87.5°	6.1	6.8	5.1	3.4	2.0	0.3	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)