

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: P631950

Luminaire Tested: GWS-SA2B-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631950
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-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7099.6 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

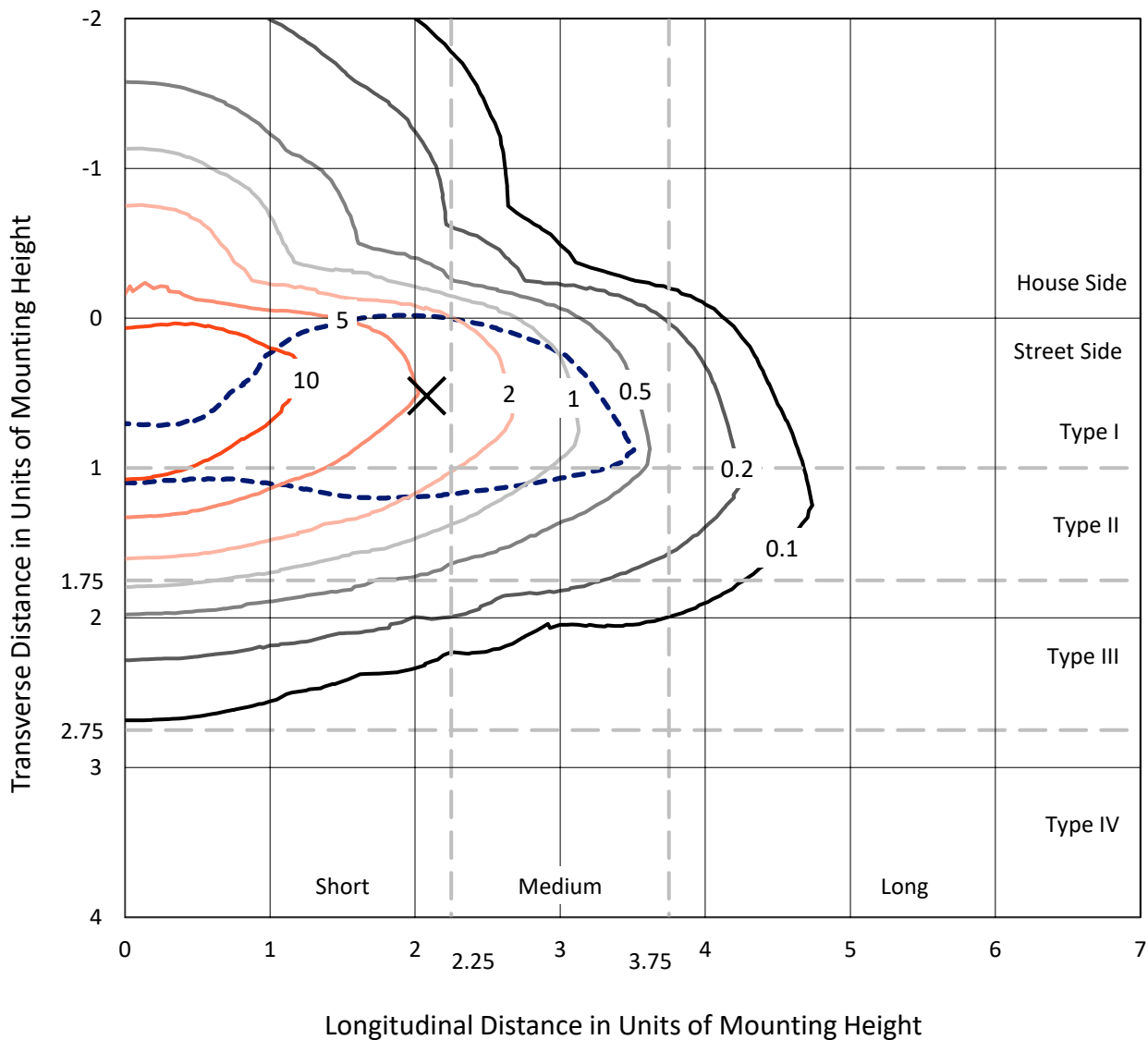
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

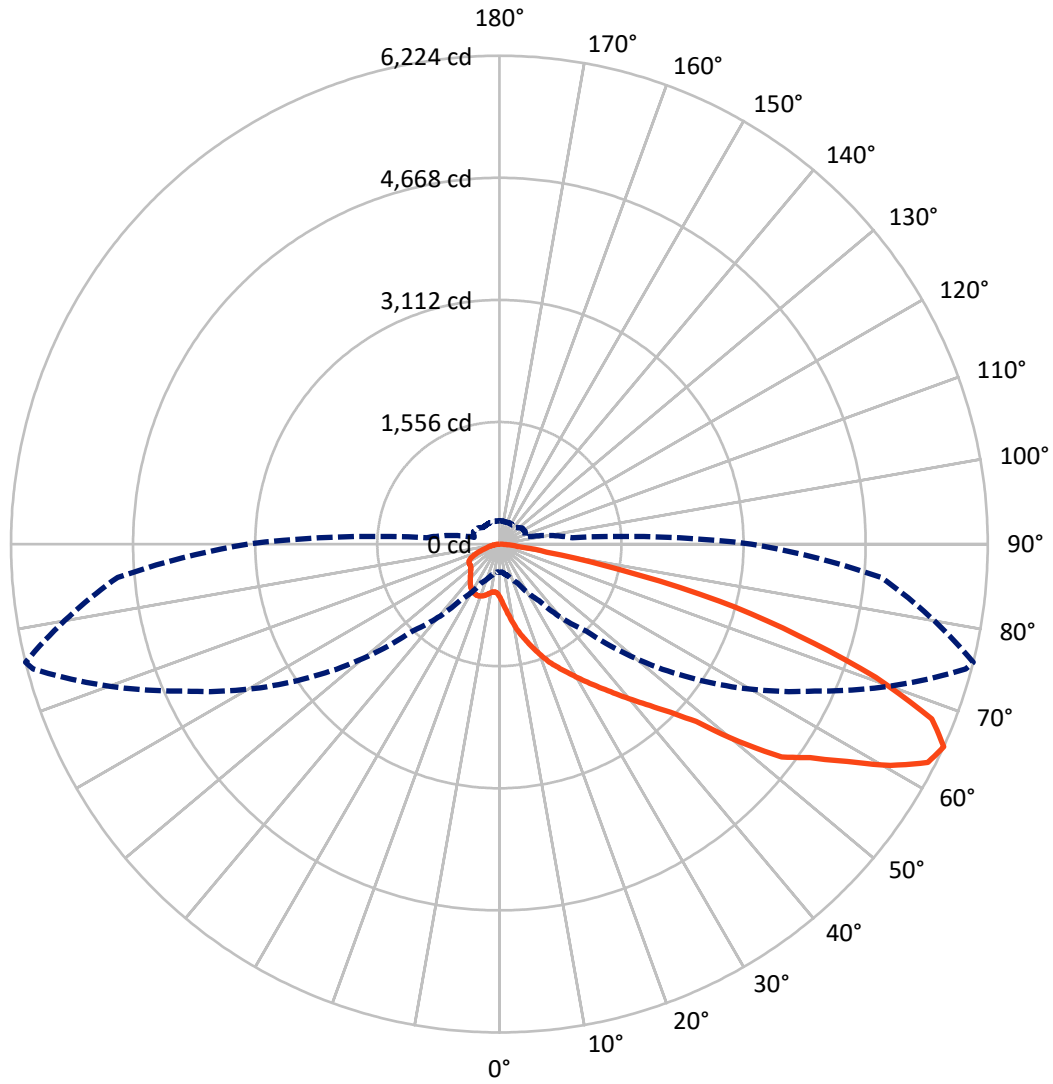
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 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	1186.7	0.0	1186.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	5912.9	0.0	5912.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	7099.6	0.0	7099.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.1
10°-20°	304.2	4.3
20°-30°	592.9	8.4
30°-40°	991.6	14.0
40°-50°	1419.8	20.0
50°-60°	1680.8	23.7
60°-70°	1397.6	19.7
70°-80°	571.9	8.1
80°-90°	60.9	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°	7099.6	100.0
0°-180°	7099.6	100.0

Coefficient of Utilization



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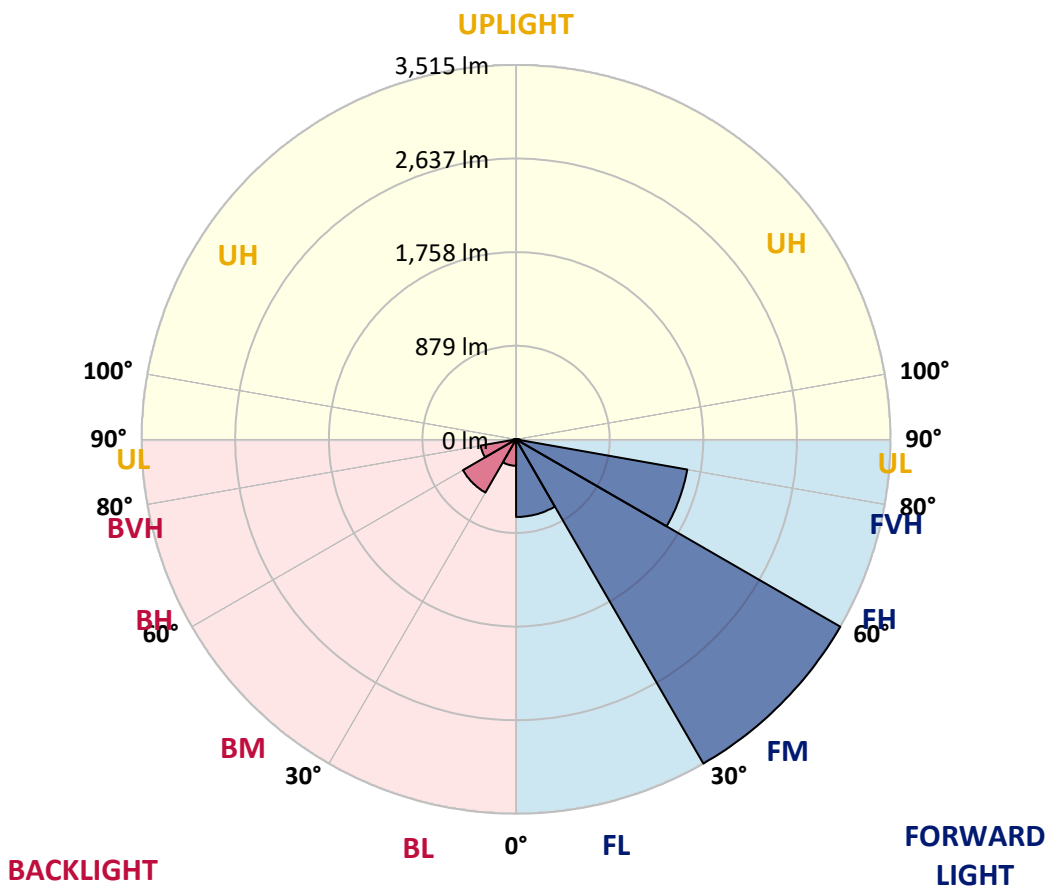
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.7	10.3			
FM (30°-60°)	3515.5	49.5			
FH (60°-80°)	1632.4	23.0			G1/1800
FVH (80°-90°)	36.3	0.5			G1/100
BL (0°-30°)	248.3	3.5	B1/500		
BM (30°-60°)	576.7	8.1	B1/1000		
BH (60°-80°)	337.2	4.7	B1/500		G1/500
BVH (80°-90°)	24.6	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°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	942.3	945.8	934.3	930.3	903.4	867.0	836.5	790.6	748.2	741.7	703.8
5°	1196.9	1181.9	1168.9	1160.4	1123.0	1081.6	1017.2	930.8	840.5	829.5	747.7
7.5°	1348.1	1345.6	1329.6	1324.6	1295.7	1254.3	1187.9	1080.6	949.3	931.3	807.1
10°	1469.4	1467.9	1459.9	1464.4	1437.9	1397.5	1333.1	1222.3	1068.6	1050.6	873.4
12.5°	1575.2	1577.7	1576.2	1592.7	1579.2	1547.8	1480.9	1359.1	1187.9	1168.4	954.3
15°	1652.6	1654.6	1662.0	1698.0	1705.5	1699.0	1631.1	1493.3	1305.7	1277.7	1037.7
17.5°	1674.5	1678.5	1696.5	1754.4	1794.8	1821.8	1771.4	1630.1	1421.5	1391.0	1122.5
20°	1704.0	1708.5	1726.4	1786.8	1846.2	1907.6	1898.6	1768.9	1538.3	1513.3	1208.4
22.5°	1840.2	1836.7	1828.8	1857.7	1900.1	1976.5	1998.9	1902.1	1659.1	1635.1	1303.2
25°	2102.8	2096.3	2045.4	2018.9	2004.9	2051.4	2091.3	2023.4	1776.8	1740.9	1391.5
27.5°	2392.3	2388.8	2323.9	2261.0	2175.1	2155.2	2178.6	2129.2	1891.1	1854.7	1468.4
30°	2666.3	2655.8	2587.9	2509.0	2394.2	2308.4	2274.0	2233.0	2016.4	1978.5	1558.2
32.5°	2911.3	2897.9	2818.0	2730.6	2610.4	2509.0	2406.2	2343.3	2158.2	2114.2	1650.1
35°	3112.5	3099.0	3017.1	2924.3	2792.0	2717.2	2576.4	2463.1	2302.4	2258.0	1758.4
37.5°	3268.2	3255.7	3170.4	3079.0	2963.7	2904.3	2782.1	2597.9	2468.6	2422.2	1873.2
40°	3355.5	3346.6	3278.2	3205.8	3109.0	3057.6	3002.7	2768.1	2654.8	2608.4	2008.4
42.5°	3382.0	3376.0	3328.1	3290.7	3225.3	3186.3	3217.8	2968.2	2853.4	2813.0	2160.7
45°	3315.6	3315.6	3301.6	3320.6	3323.6	3323.1	3433.4	3194.3	3097.5	3053.1	2375.3
47.5°	3145.9	3156.9	3177.4	3270.7	3369.0	3451.4	3685.5	3495.8	3411.4	3375.0	2679.2
50°	2835.5	2865.4	2935.3	3117.5	3326.6	3536.2	3924.0	3941.5	4021.9	3957.5	3126.4
52.5°	2380.8	2376.3	2554.5	2814.0	3132.9	3539.7	4055.3	4334.8	4550.9	4506.5	3458.9
55°	1892.1	1884.7	2050.9	2408.7	2836.0	3406.0	4134.2	4515.0	4844.4	4804.5	3757.8
57.5°	1448.9	1439.4	1587.2	1910.1	2416.7	3122.0	4119.2	4729.6	5248.2	5227.7	4164.1
60°	997.2	985.7	1124.0	1406.5	1920.6	2687.7	3953.5	4839.9	5720.8	5727.8	4598.8
62.5°	598.9	592.4	692.8	911.9	1381.5	2149.7	3565.7	4773.0	6097.2	6128.6	4878.3
65°	361.4	356.9	415.8	544.0	876.4	1568.7	2967.7	4431.1	6151.6	6223.9	4884.8
67.5°	263.0	263.5	280.5	331.4	511.1	1013.2	2227.0	3818.2	5868.1	5942.9	4576.9
70°	228.6	229.6	238.6	250.1	309.0	580.0	1447.9	3014.1	5030.1	5088.0	3838.7
72.5°	203.1	203.1	209.1	215.1	241.6	353.4	775.6	2106.8	3969.9	3985.4	2929.8
75°	178.7	177.2	180.2	183.2	209.6	247.1	377.3	1467.9	2932.3	2896.4	1893.6
77.5°	142.2	140.8	141.2	144.2	168.2	176.7	191.2	916.9	1652.6	1559.7	836.5
80°	101.3	100.3	105.8	113.3	124.3	108.3	119.8	443.7	655.3	609.9	324.4
82.5°	60.4	62.4	70.9	76.9	85.8	67.9	77.4	148.2	232.1	226.1	131.8
85°	8.5	9.0	25.5	29.4	36.9	26.5	40.9	66.9	92.8	99.3	46.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	12.0	26.5	27.0	11.5
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°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	684.3	660.8	627.4	599.4	576.0	557.0	541.0	529.1	525.6	520.6	520.6
5°	709.2	666.8	606.9	564.5	540.0	525.6	515.6	510.6	508.1	505.1	503.6
7.5°	743.7	684.3	603.4	560.5	541.5	532.6	526.1	523.1	521.1	518.1	518.1
10°	791.1	710.2	614.4	574.5	559.5	550.5	543.0	538.0	533.6	529.1	528.1
12.5°	842.5	744.2	634.4	593.4	577.5	566.5	556.0	548.5	543.0	537.5	536.0
15°	899.4	779.1	655.8	611.9	591.9	577.0	564.5	553.0	545.5	537.5	536.5
17.5°	955.3	814.6	673.8	624.4	598.9	580.5	562.5	547.5	538.0	529.1	526.6
20°	1022.2	850.0	686.3	627.9	597.4	573.0	551.5	532.6	522.1	511.6	510.1
22.5°	1083.6	882.9	692.3	622.9	586.0	557.0	532.1	511.6	500.1	489.6	487.6
25°	1143.0	911.9	689.8	610.9	568.5	535.0	509.1	488.6	477.7	466.7	463.7
27.5°	1200.4	931.3	679.8	592.4	546.5	510.6	485.6	467.2	457.7	448.2	444.2
30°	1256.8	949.3	664.3	568.5	518.6	485.1	464.7	451.7	442.2	432.2	429.2
32.5°	1313.7	962.3	640.9	540.5	490.1	462.7	450.2	440.7	430.7	420.8	417.8
35°	1371.1	967.8	612.4	508.6	466.2	448.2	443.7	432.7	419.3	407.3	403.3
37.5°	1439.4	972.8	577.0	477.2	445.2	441.2	440.2	423.7	407.8	391.3	386.8
40°	1521.8	979.3	540.5	448.7	428.2	438.7	434.7	412.3	380.3	364.4	359.4
42.5°	1622.6	991.2	502.6	422.7	415.8	429.2	424.7	384.3	362.9	353.9	351.4
45°	1770.9	1035.2	464.7	402.3	406.3	415.8	408.8	367.8	359.4	353.4	350.4
47.5°	2034.9	1102.5	431.7	386.8	398.8	403.8	376.8	363.4	356.9	348.9	345.4
50°	2309.4	1132.0	405.3	377.3	390.3	392.8	359.4	357.4	352.9	344.4	340.9
52.5°	2495.1	1128.0	389.3	373.8	383.3	373.8	351.4	350.9	347.9	337.9	333.9
55°	2704.7	1135.0	382.3	374.8	380.3	341.9	341.4	342.9	341.4	330.4	328.4
57.5°	2987.7	1156.4	378.8	378.3	378.3	326.4	331.9	333.9	330.9	325.9	324.4
60°	3259.7	1157.9	372.3	382.3	376.8	316.9	320.9	322.9	319.4	318.4	317.9
62.5°	3362.0	1086.1	357.9	379.3	370.8	306.5	309.5	310.4	307.0	309.5	309.0
65°	3209.8	933.3	333.9	364.9	352.4	297.0	295.0	297.5	291.5	298.0	298.5
67.5°	2849.9	741.7	297.5	337.4	326.4	286.5	282.5	282.5	272.5	282.5	282.0
70°	2297.9	524.1	244.1	293.5	298.0	274.0	272.0	260.5	244.6	259.5	258.0
72.5°	1741.9	376.3	192.2	232.1	256.5	256.5	257.0	237.6	219.1	226.1	220.1
75°	1103.5	265.0	153.7	177.7	201.1	225.1	236.6	200.6	184.2	181.2	178.2
77.5°	497.1	174.2	119.8	136.3	142.7	177.7	216.1	172.7	150.2	143.7	141.7
80°	208.1	108.3	85.3	96.3	87.8	149.2	190.7	134.3	110.3	101.3	94.8
82.5°	91.3	64.4	54.4	51.9	54.9	110.8	142.2	89.3	68.9	93.3	94.3
85°	38.4	33.9	28.0	25.5	22.5	42.4	66.9	34.9	42.9	24.5	20.0
87.5°	9.0	10.0	7.5	5.0	3.0	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)