

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: P634040

Luminaire Tested: GWS-SA2F-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634040
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-SA2F-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: 13140.6 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 124.5
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

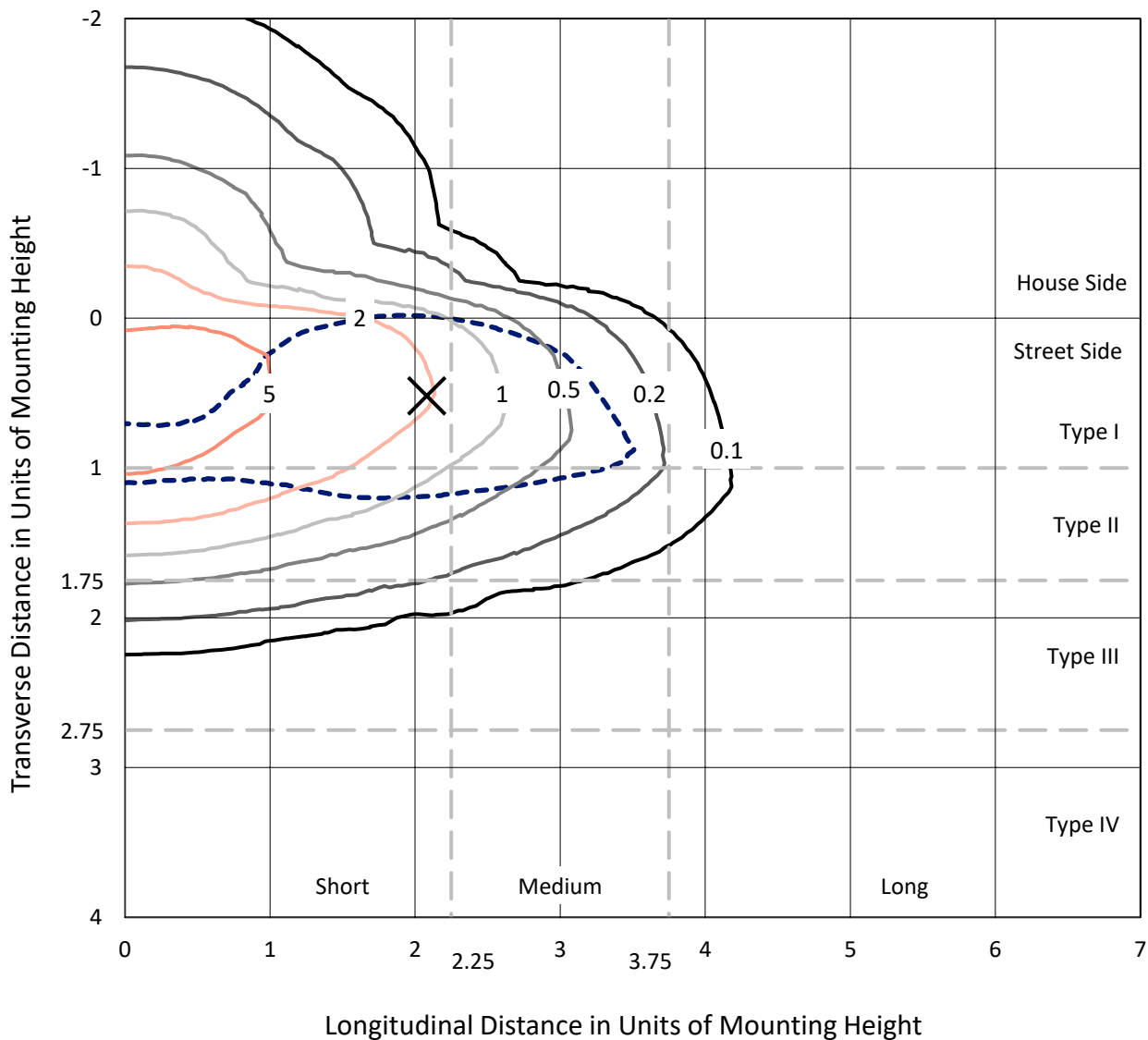


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Iso-Footcandle Lines of Horizontal Illumination

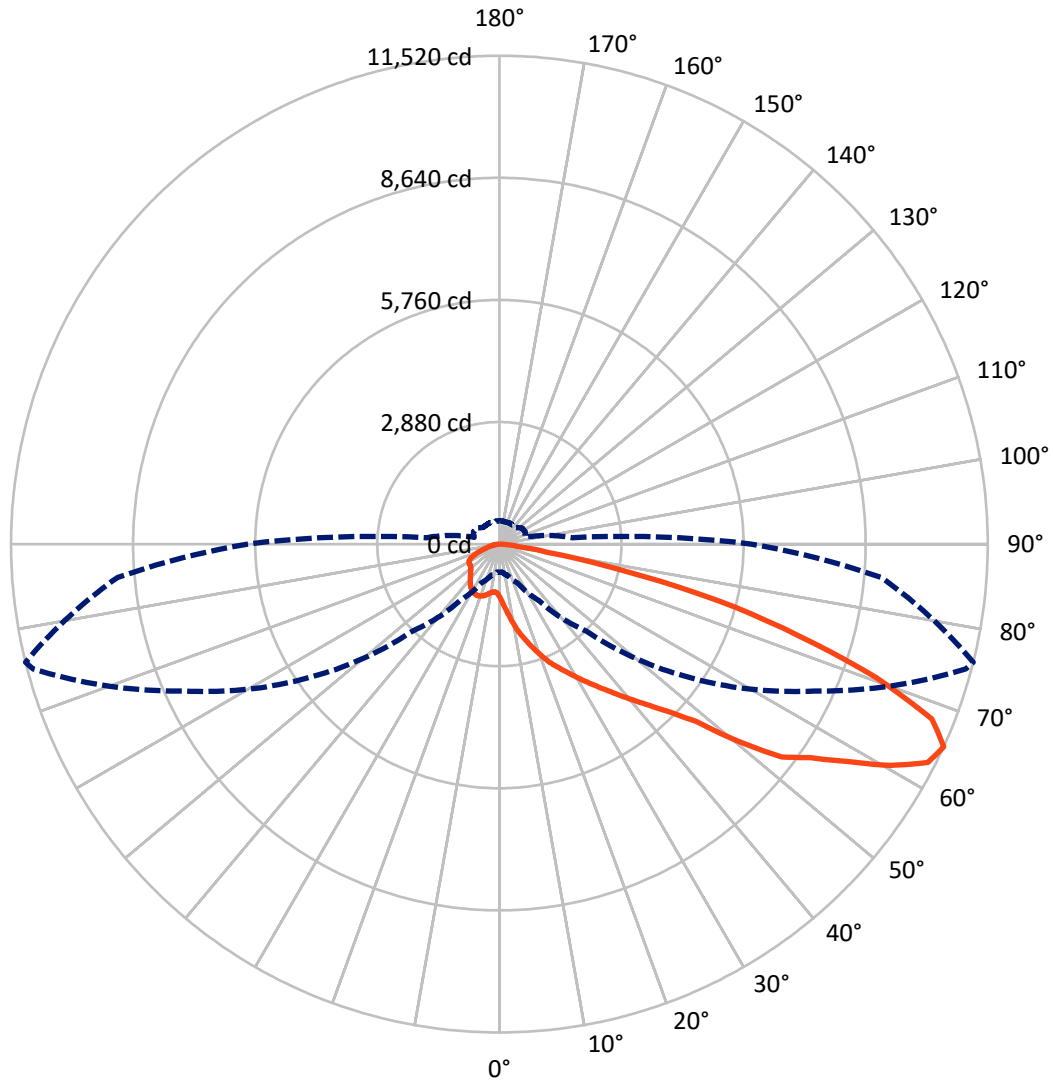
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	2196.5	0.0	2196.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	10944.1	0.0	10944.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	13140.6	0.0	13140.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.1
10°-20°	563.1	4.3
20°-30°	1097.4	8.4
30°-40°	1835.3	14.0
40°-50°	2627.8	20.0
50°-60°	3111.0	23.7
60°-70°	2586.8	19.7
70°-80°	1058.6	8.1
80°-90°	112.7	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°	13140.6	100.0
0°-180°	13140.6	100.0

Coefficient of Utilization



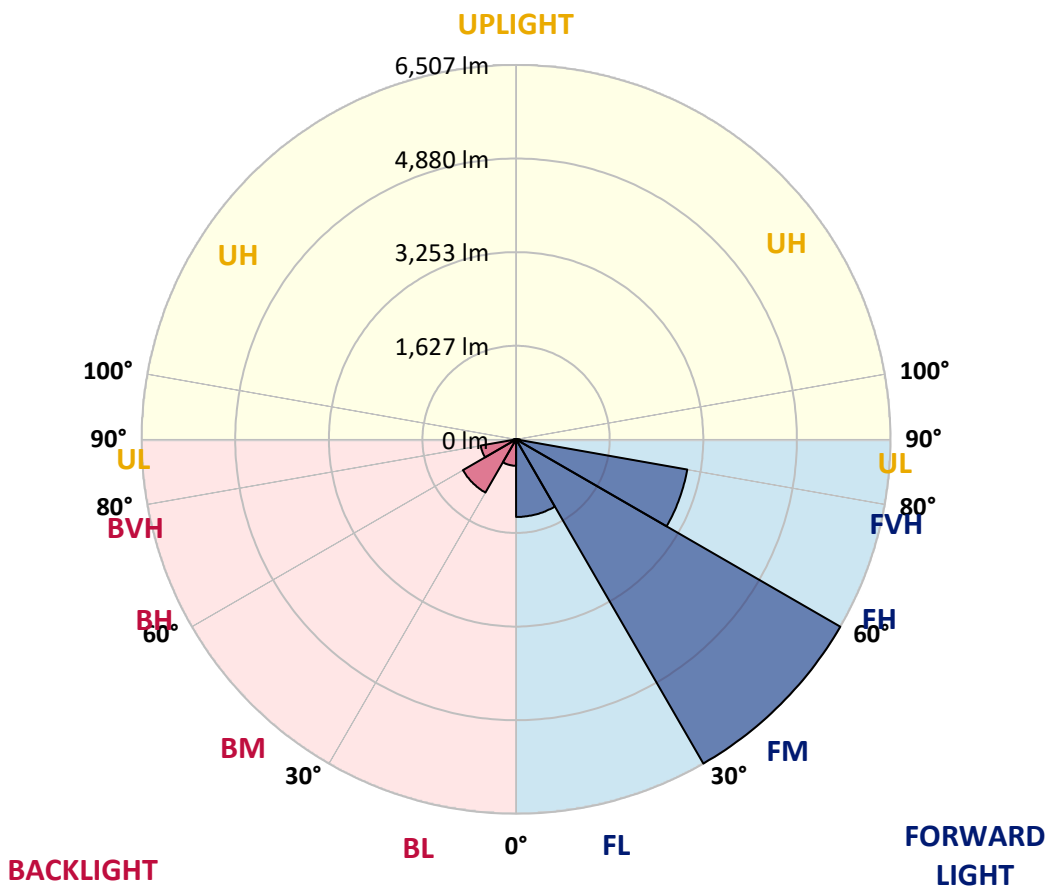
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.8	10.3			
FM (30°-60°)	6506.7	49.5			
FH (60°-80°)	3021.4	23.0			G2/5000
FVH (80°-90°)	67.2	0.5			G1/100
BL (0°-30°)	459.5	3.5	B1/500		
BM (30°-60°)	1067.4	8.1	B2/2500		
BH (60°-80°)	624.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	45.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4
2.5°	1744.1	1750.6	1729.4	1722.0	1672.1	1604.7	1548.3	1463.3	1384.8	1372.8	1302.6
5°	2215.3	2187.6	2163.6	2147.8	2078.6	2001.9	1882.7	1722.9	1555.7	1535.4	1383.9
7.5°	2495.2	2490.6	2461.0	2451.8	2398.2	2321.5	2198.7	2000.0	1757.1	1723.8	1493.8
10°	2719.7	2716.9	2702.1	2710.4	2661.5	2586.7	2467.5	2262.4	1977.9	1944.6	1616.7
12.5°	2915.5	2920.1	2917.4	2947.9	2922.9	2864.7	2740.9	2515.5	2198.7	2162.6	1766.3
15°	3058.7	3062.4	3076.3	3142.8	3156.6	3144.6	3019.0	2764.0	2416.7	2364.9	1920.6
17.5°	3099.4	3106.8	3140.0	3247.2	3322.0	3371.9	3278.6	3017.1	2631.0	2574.6	2077.6
20°	3153.9	3162.2	3195.4	3307.2	3417.2	3530.8	3514.2	3274.0	2847.2	2801.0	2236.5
22.5°	3406.1	3399.6	3384.8	3438.4	3516.9	3658.3	3699.8	3520.6	3070.7	3026.4	2412.1
25°	3892.0	3880.0	3785.8	3736.8	3710.9	3796.8	3870.7	3745.1	3288.7	3222.2	2575.6
27.5°	4427.8	4421.3	4301.2	4184.8	4025.9	3989.0	4032.4	3941.0	3500.3	3432.9	2717.8
30°	4935.0	4915.6	4789.9	4644.0	4431.5	4272.6	4208.9	4133.1	3732.2	3662.0	2884.1
32.5°	5388.6	5363.6	5215.8	5054.1	4831.5	4644.0	4453.7	4337.3	3994.5	3913.2	3054.1
35°	5760.9	5735.9	5584.4	5412.6	5167.8	5029.2	4768.7	4559.0	4261.5	4179.3	3254.6
37.5°	6049.1	6026.0	5868.0	5699.0	5485.6	5375.6	5149.3	4808.4	4569.1	4483.2	3467.0
40°	6210.7	6194.1	6067.6	5933.6	5754.4	5659.2	5557.6	5123.4	4913.7	4827.8	3717.4
42.5°	6259.7	6248.6	6159.9	6090.7	5969.6	5897.6	5955.8	5493.9	5281.4	5206.6	3999.2
45°	6136.8	6136.8	6111.0	6146.1	6151.6	6150.7	6354.9	5912.4	5733.1	5650.9	4396.4
47.5°	5822.7	5843.1	5880.9	6053.7	6235.7	6388.1	6821.4	6470.3	6314.2	6246.8	4959.0
50°	5248.1	5303.6	5432.9	5770.1	6157.2	6545.2	7263.0	7295.3	7444.0	7324.9	5786.7
52.5°	4406.6	4398.2	4728.0	5208.4	5798.7	6551.6	7505.9	8023.3	8423.3	8341.0	6402.0
55°	3502.1	3488.3	3795.9	4458.3	5249.1	6304.0	7651.9	8356.7	8966.5	8892.6	6955.3
57.5°	2681.8	2664.3	2937.7	3535.4	4473.1	5778.4	7624.2	8754.0	9713.8	9675.9	7707.3
60°	1845.8	1824.5	2080.4	2603.3	3554.8	4974.7	7317.5	8958.1	10588.7	10601.6	8511.9
62.5°	1108.6	1096.6	1282.2	1687.8	2557.1	3978.8	6599.7	8834.4	11285.2	11343.4	9029.3
65°	668.8	660.5	769.5	1006.9	1622.2	2903.5	5492.9	8201.5	11385.9	11519.9	9041.3
67.5°	486.8	487.8	519.2	613.4	946.0	1875.3	4122.0	7067.1	10861.2	10999.8	8471.3
70°	423.1	425.0	441.6	462.8	571.8	1073.5	2680.0	5578.9	9310.1	9417.3	7105.0
72.5°	376.0	376.0	387.1	398.2	447.1	654.1	1435.6	3899.4	7348.0	7376.6	5422.7
75°	330.7	328.0	333.5	339.0	388.0	457.3	698.4	2716.9	5427.4	5360.8	3504.9
77.5°	263.3	260.5	261.4	267.0	311.3	327.0	353.8	1697.0	3058.7	2886.9	1548.3
80°	187.5	185.7	195.8	209.7	230.0	200.5	221.7	821.3	1213.0	1128.9	600.5
82.5°	111.8	115.5	131.2	142.3	158.9	125.6	143.2	274.4	429.6	418.5	243.9
85°	15.7	16.6	47.1	54.5	68.4	49.0	75.8	123.8	171.8	183.8	85.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	22.2	49.0	49.9	21.2
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°	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4
2.5°	1266.5	1223.1	1161.2	1109.5	1066.1	1031.0	1001.4	979.2	972.8	963.5	963.5
5°	1312.7	1234.2	1123.3	1044.8	999.6	972.8	954.3	945.1	940.4	934.9	932.1
7.5°	1376.5	1266.5	1116.9	1037.4	1002.3	985.7	973.7	968.1	964.5	958.9	958.9
10°	1464.2	1314.6	1137.2	1063.3	1035.6	1019.0	1005.1	995.9	987.5	979.2	977.4
12.5°	1559.4	1377.4	1174.2	1098.4	1068.8	1048.5	1029.1	1015.3	1005.1	994.9	992.2
15°	1664.7	1442.1	1213.9	1132.6	1095.6	1067.9	1044.8	1023.6	1009.7	994.9	993.1
17.5°	1768.2	1507.7	1247.1	1155.7	1108.6	1074.4	1041.1	1013.4	995.9	979.2	974.6
20°	1892.0	1573.2	1270.2	1162.1	1105.8	1060.5	1020.8	985.7	966.3	946.9	944.1
22.5°	2005.6	1634.2	1281.3	1152.9	1084.5	1031.0	984.8	946.9	925.7	906.3	902.6
25°	2115.5	1687.8	1276.7	1130.7	1052.2	990.3	942.3	904.4	884.1	863.8	858.2
27.5°	2221.8	1723.8	1258.2	1096.6	1011.6	945.1	898.9	864.7	847.1	829.6	822.2
30°	2326.1	1757.1	1229.6	1052.2	959.8	897.9	860.1	836.0	818.5	800.0	794.5
32.5°	2431.5	1781.1	1186.2	1000.5	907.2	856.4	833.3	815.7	797.2	778.8	773.2
35°	2537.7	1791.3	1133.5	941.4	862.8	829.6	821.3	800.9	776.0	753.8	746.4
37.5°	2664.3	1800.5	1067.9	883.2	824.0	816.6	814.8	784.3	754.7	724.3	715.9
40°	2816.7	1812.5	1000.5	830.5	792.6	812.0	804.6	763.1	703.9	674.4	665.1
42.5°	3003.3	1834.7	930.3	782.5	769.5	794.5	786.2	711.3	671.6	655.0	650.4
45°	3277.7	1916.0	860.1	744.6	752.0	769.5	756.6	680.8	665.1	654.1	648.5
47.5°	3766.4	2040.7	799.1	715.9	738.1	747.4	697.5	672.5	660.5	645.7	639.3
50°	4274.4	2095.2	750.1	698.4	722.4	727.0	665.1	661.4	653.1	637.4	631.0
52.5°	4618.1	2087.8	720.6	691.9	709.5	691.9	650.4	649.4	643.9	625.4	618.0
55°	5006.1	2100.7	707.6	693.8	703.9	632.8	631.9	634.7	631.9	611.6	607.9
57.5°	5529.9	2140.5	701.2	700.2	700.2	604.2	614.3	618.0	612.5	603.2	600.5
60°	6033.4	2143.2	689.2	707.6	697.5	586.6	594.0	597.7	591.2	589.4	588.5
62.5°	6222.8	2010.2	662.4	702.1	686.4	567.2	572.8	574.6	568.1	572.8	571.8
65°	5941.0	1727.5	618.0	675.3	652.2	549.7	546.0	550.6	539.5	551.5	552.4
67.5°	5274.9	1372.8	550.6	624.5	604.2	530.3	522.9	522.9	504.4	522.9	522.0
70°	4253.2	970.0	451.7	543.2	551.5	507.2	503.5	482.2	452.7	480.4	477.6
72.5°	3224.1	696.5	355.7	429.6	474.8	474.8	475.8	439.7	405.6	418.5	407.4
75°	2042.5	490.5	284.5	328.9	372.3	416.6	437.9	371.4	340.9	335.3	329.8
77.5°	920.1	322.4	221.7	252.2	264.2	328.9	400.0	319.6	278.1	266.1	262.4
80°	385.2	200.5	158.0	178.3	162.6	276.2	352.9	248.5	204.2	187.5	175.5
82.5°	169.1	119.2	100.7	96.1	101.6	205.1	263.3	165.4	127.5	172.8	174.6
85°	71.1	62.8	51.7	47.1	41.6	78.5	123.8	64.7	79.4	45.3	37.0
87.5°	16.6	18.5	13.9	9.2	5.5	0.9	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)