

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: P632830

Luminaire Tested: GWS-SA2D-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632830
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-SA2D-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11905.9 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

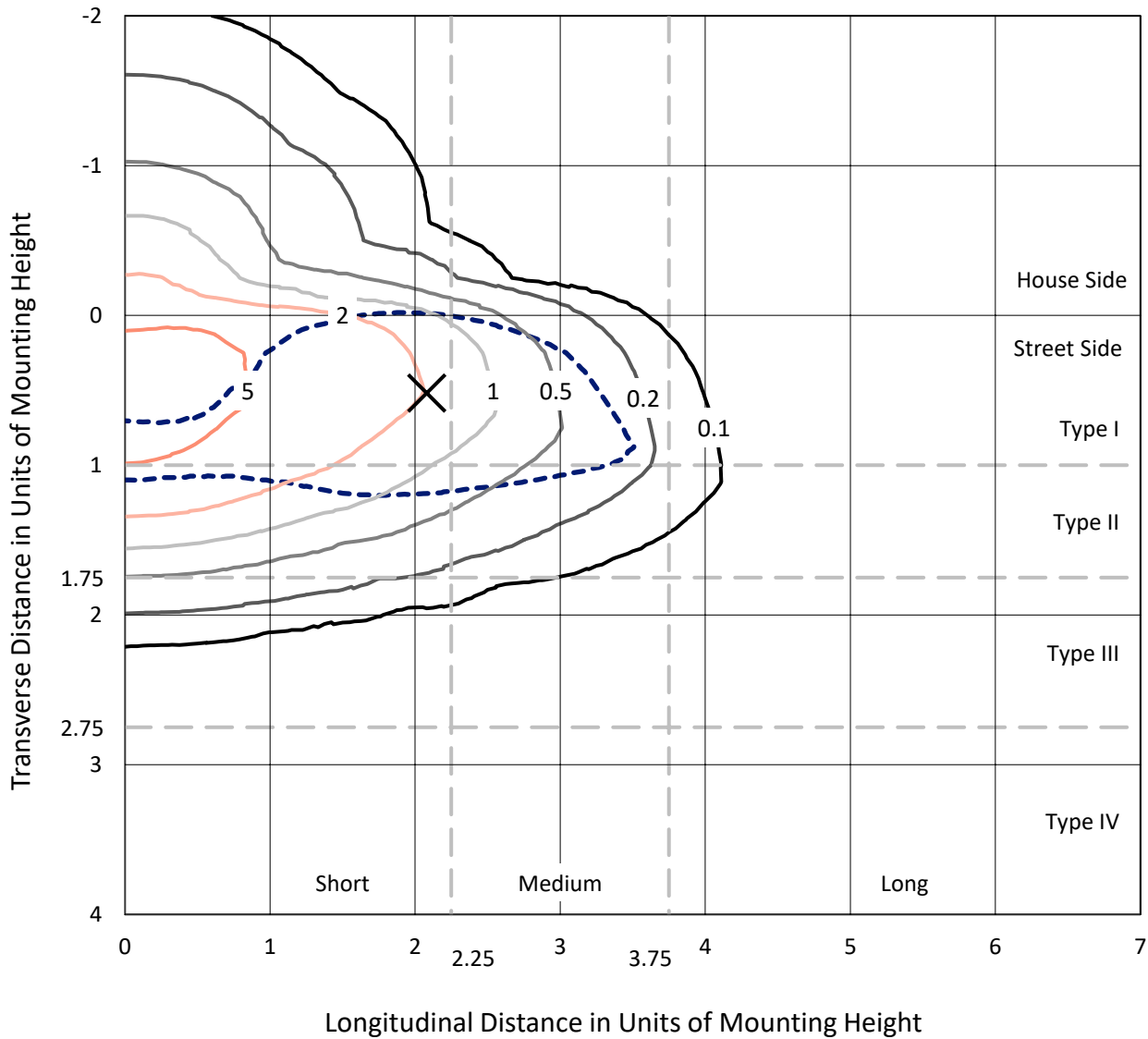
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

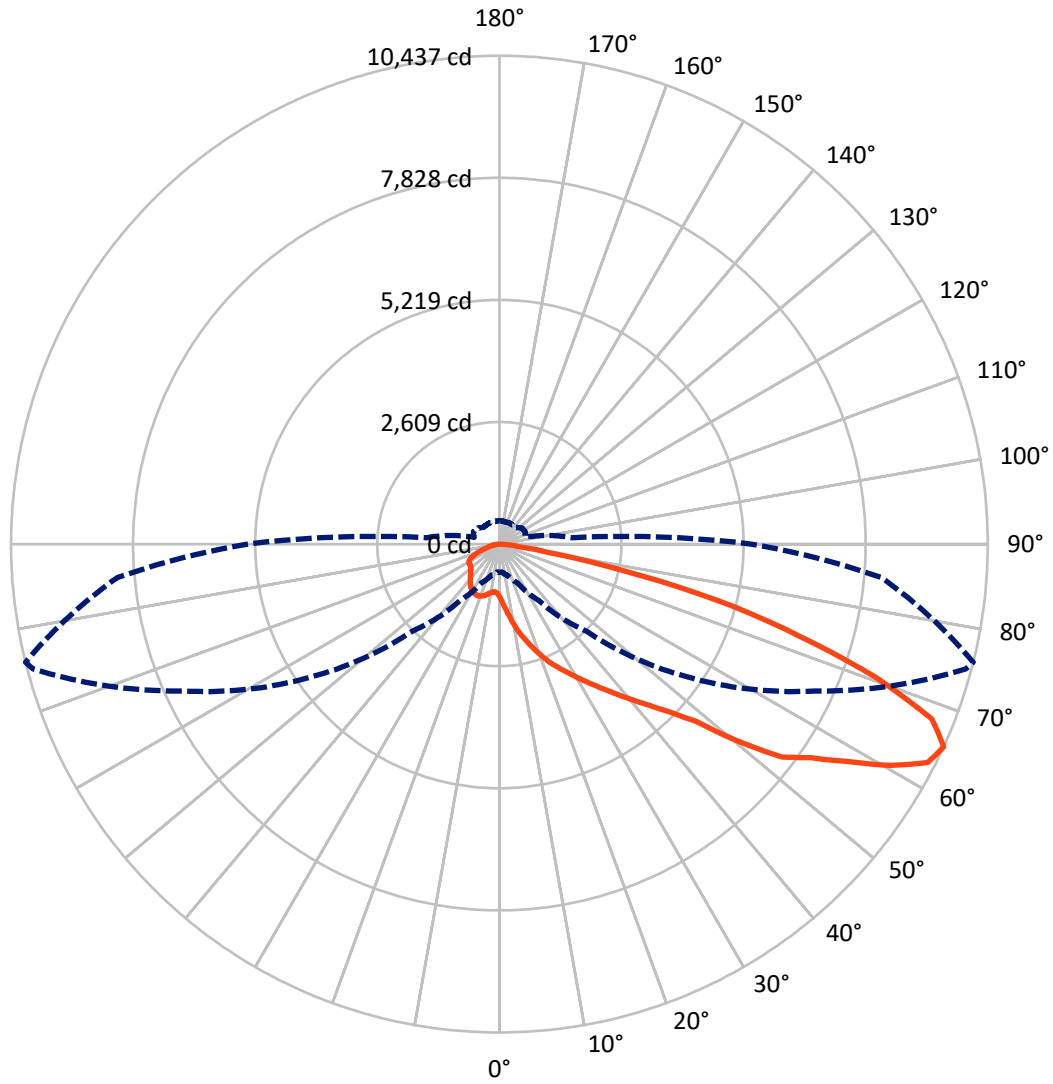
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 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	1990.1	0.0	1990.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9915.8	0.0	9915.8
	% Fixture	83.3	0.0	83.3
Total	Lumens	11905.9	0.0	11905.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	1.1
10°-20°	510.2	4.3
20°-30°	994.3	8.4
30°-40°	1662.9	14.0
40°-50°	2380.9	20.0
50°-60°	2818.7	23.7
60°-70°	2343.8	19.7
70°-80°	959.1	8.1
80°-90°	102.1	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°	11905.9	100.0
0°-180°	11905.9	100.0

Coefficient of Utilization



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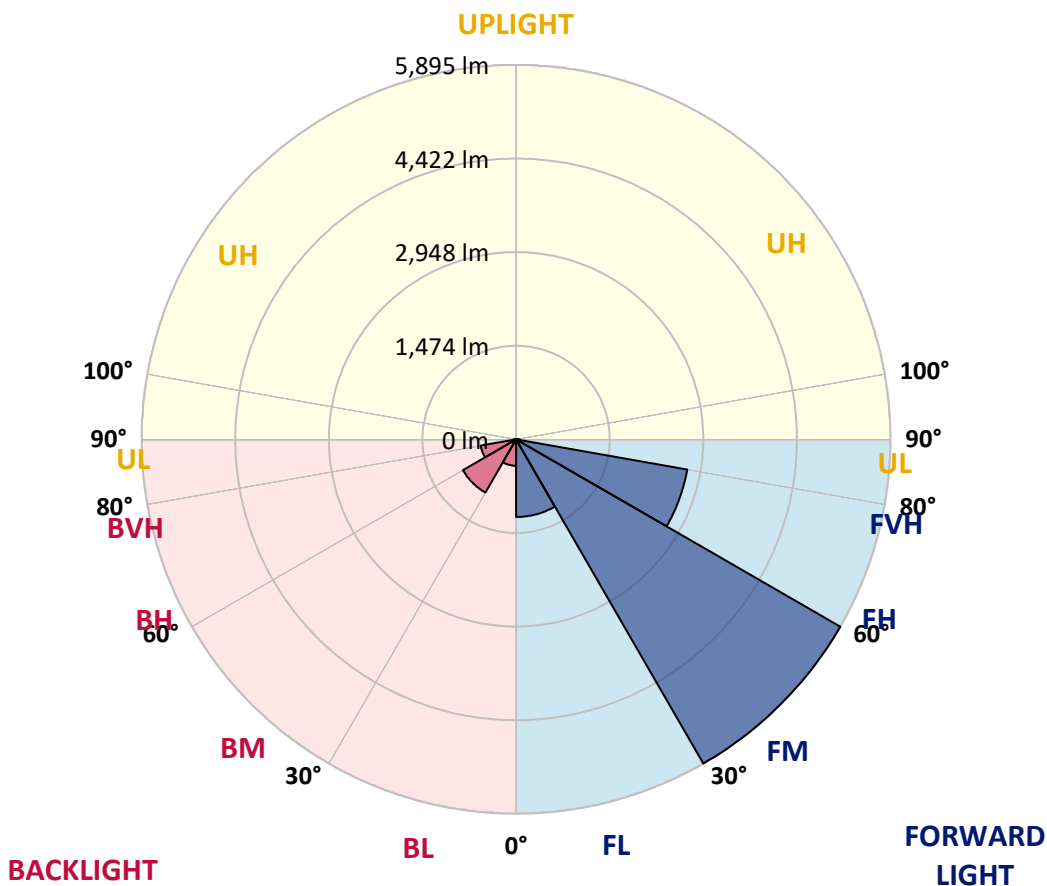
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.1	10.3			
FM (30°-60°)	5895.4	49.5			
FH (60°-80°)	2737.5	23.0			G2/5000
FVH (80°-90°)	60.9	0.5			G1/100
BL (0°-30°)	416.3	3.5	B1/500		
BM (30°-60°)	967.1	8.1	B1/1000		
BH (60°-80°)	565.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	41.2	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°	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4
2.5°	1580.3	1586.1	1566.9	1560.2	1515.0	1453.9	1402.8	1325.8	1254.7	1243.8	1180.2
5°	2007.1	1982.0	1960.3	1946.0	1883.3	1813.8	1705.8	1561.0	1409.5	1391.1	1253.8
7.5°	2260.7	2256.6	2229.8	2221.4	2172.9	2103.4	1992.1	1812.1	1592.0	1561.8	1353.4
10°	2464.1	2461.6	2448.2	2455.8	2411.4	2343.6	2235.6	2049.8	1792.0	1761.9	1464.8
12.5°	2641.6	2645.8	2643.3	2670.9	2648.3	2595.6	2483.4	2279.2	1992.1	1959.4	1600.4
15°	2771.3	2774.7	2787.2	2847.5	2860.0	2849.2	2735.3	2504.3	2189.6	2142.7	1740.1
17.5°	2808.1	2814.8	2845.0	2942.1	3009.9	3055.1	2970.5	2733.7	2383.8	2332.7	1882.4
20°	2857.5	2865.1	2895.2	2996.5	3096.1	3199.0	3184.0	2966.3	2579.6	2537.8	2026.4
22.5°	3086.0	3080.2	3066.8	3115.3	3186.5	3314.5	3352.2	3189.8	2782.2	2742.0	2185.4
25°	3526.3	3515.4	3430.0	3385.7	3362.2	3440.1	3507.0	3393.2	2979.7	2919.5	2333.6
27.5°	4011.8	4005.9	3897.1	3791.6	3647.7	3614.2	3653.5	3570.7	3171.4	3110.3	2462.5
30°	4471.3	4453.7	4339.9	4207.6	4015.1	3871.1	3813.4	3744.8	3381.5	3317.9	2613.1
32.5°	4882.2	4859.6	4725.7	4579.3	4377.5	4207.6	4035.2	3929.7	3619.2	3545.5	2767.1
35°	5219.6	5197.0	5059.7	4904.0	4682.2	4556.7	4320.6	4130.6	3861.1	3786.6	2948.8
37.5°	5480.7	5459.8	5316.7	5163.5	4970.1	4870.5	4665.5	4356.6	4139.8	4062.0	3141.3
40°	5627.2	5612.1	5497.4	5376.1	5213.7	5127.5	5035.4	4642.0	4452.0	4374.2	3368.1
42.5°	5671.5	5661.5	5581.1	5518.4	5408.7	5343.4	5396.2	4977.7	4785.2	4717.4	3623.4
45°	5560.2	5560.2	5536.8	5568.6	5573.6	5572.8	5757.8	5356.8	5194.4	5120.0	3983.3
47.5°	5275.6	5294.1	5328.4	5484.9	5649.8	5787.9	6180.4	5862.4	5720.9	5659.8	4493.0
50°	4755.0	4805.2	4922.4	5227.9	5578.6	5930.2	6580.5	6609.8	6744.6	6636.6	5243.0
52.5°	3992.5	3985.0	4283.8	4719.0	5253.9	5936.0	6800.7	7269.4	7631.8	7557.3	5800.4
55°	3173.1	3160.5	3439.3	4039.4	4755.9	5711.7	6932.9	7571.5	8124.0	8057.0	6301.8
57.5°	2429.8	2413.9	2661.7	3203.2	4052.8	5235.5	6907.8	7931.5	8801.1	8766.8	6983.1
60°	1672.3	1653.1	1884.9	2358.7	3220.8	4507.3	6629.9	8116.4	9593.7	9605.5	7712.2
62.5°	1004.4	993.5	1161.8	1529.2	2316.8	3605.0	5979.6	8004.3	10224.8	10277.6	8180.9
65°	606.0	598.5	697.2	912.3	1469.8	2630.7	4976.8	7430.9	10316.1	10437.4	8191.8
67.5°	441.1	441.9	470.4	555.8	857.1	1699.1	3734.7	6403.1	9840.7	9966.2	7675.3
70°	383.3	385.0	400.1	419.3	518.1	972.6	2428.1	5054.7	8435.3	8532.4	6437.4
72.5°	340.7	340.7	350.7	360.7	405.1	592.6	1300.7	3533.0	6657.5	6683.5	4913.2
75°	299.6	297.1	302.2	307.2	351.5	414.3	632.8	2461.6	4917.4	4857.1	3175.6
77.5°	238.5	236.0	236.9	241.9	282.1	296.3	320.6	1537.6	2771.3	2615.6	1402.8
80°	169.9	168.2	177.4	190.0	208.4	181.6	200.9	744.1	1099.0	1022.8	544.1
82.5°	101.3	104.6	118.9	128.9	144.0	113.8	129.7	248.6	389.2	379.2	221.0
85°	14.2	15.1	42.7	49.4	61.9	44.4	68.6	112.2	155.7	166.6	77.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	20.1	44.4	45.2	19.3
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°	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4
2.5°	1147.5	1108.2	1052.1	1005.2	965.9	934.1	907.3	887.2	881.4	873.0	873.0
5°	1189.4	1118.2	1017.8	946.7	905.6	881.4	864.6	856.3	852.1	847.0	844.5
7.5°	1247.1	1147.5	1011.9	940.0	908.1	893.1	882.2	877.2	873.8	868.8	868.8
10°	1326.7	1191.1	1030.4	963.4	938.3	923.2	910.7	902.3	894.8	887.2	885.6
12.5°	1412.9	1248.0	1063.8	995.2	968.4	950.0	932.4	919.9	910.7	901.5	898.9
15°	1508.3	1306.6	1099.8	1026.2	992.7	967.6	946.7	927.4	914.8	901.5	899.8
17.5°	1602.0	1366.0	1130.0	1047.1	1004.4	973.4	943.3	918.2	902.3	887.2	883.0
20°	1714.2	1425.4	1150.9	1053.0	1001.9	960.9	924.9	893.1	875.5	857.9	855.4
22.5°	1817.1	1480.7	1160.9	1044.6	982.6	934.1	892.2	857.9	838.7	821.1	817.8
25°	1916.7	1529.2	1156.7	1024.5	953.3	897.3	853.7	819.4	801.0	782.6	777.6
27.5°	2013.0	1561.8	1140.0	993.5	916.5	856.3	814.4	783.4	767.5	751.6	744.9
30°	2107.6	1592.0	1114.1	953.3	869.6	813.6	779.3	757.5	741.6	724.8	719.8
32.5°	2203.0	1613.7	1074.7	906.5	821.9	775.9	755.0	739.1	722.3	705.6	700.6
35°	2299.3	1623.0	1027.0	852.9	781.8	751.6	744.1	725.7	703.1	683.0	676.3
37.5°	2413.9	1631.3	967.6	800.2	746.6	739.9	738.2	710.6	683.8	656.2	648.7
40°	2552.0	1642.2	906.5	752.5	718.1	735.7	729.0	691.4	637.8	611.0	602.6
42.5°	2721.1	1662.3	842.9	708.9	697.2	719.8	712.3	644.5	608.5	593.4	589.3
45°	2969.7	1735.9	779.3	674.6	681.3	697.2	685.5	616.9	602.6	592.6	587.6
47.5°	3412.5	1848.9	724.0	648.7	668.8	677.1	631.9	609.3	598.5	585.1	579.2
50°	3872.8	1898.3	679.6	632.8	654.5	658.7	602.6	599.3	591.8	577.5	571.7
52.5°	4184.2	1891.6	652.9	626.9	642.8	626.9	589.3	588.4	583.4	566.7	560.0
55°	4535.7	1903.3	641.1	628.6	637.8	573.3	572.5	575.0	572.5	554.1	550.7
57.5°	5010.3	1939.3	635.3	634.4	634.4	547.4	556.6	560.0	554.9	546.6	544.1
60°	5466.5	1941.8	624.4	641.1	631.9	531.5	538.2	541.5	535.7	534.0	533.2
62.5°	5638.1	1821.3	600.1	636.1	621.9	513.9	518.9	520.6	514.8	518.9	518.1
65°	5382.8	1565.2	560.0	611.9	590.9	498.0	494.7	498.9	488.8	499.7	500.5
67.5°	4779.3	1243.8	498.9	565.8	547.4	480.4	473.7	473.7	457.0	473.7	472.9
70°	3853.6	878.9	409.3	492.2	499.7	459.5	456.2	436.9	410.1	435.2	432.7
72.5°	2921.1	631.1	322.2	389.2	430.2	430.2	431.1	398.4	367.4	379.2	369.1
75°	1850.6	444.4	257.8	298.0	337.3	377.5	396.7	336.5	308.9	303.8	298.8
77.5°	833.7	292.1	200.9	228.5	239.4	298.0	362.4	289.6	251.9	241.1	237.7
80°	349.0	181.6	143.1	161.5	147.3	250.3	319.7	225.2	185.0	169.9	159.0
82.5°	153.2	108.0	91.2	87.0	92.1	185.8	238.5	149.8	115.5	156.5	158.2
85°	64.4	56.9	46.9	42.7	37.7	71.1	112.2	58.6	72.0	41.0	33.5
87.5°	15.1	16.7	12.6	8.4	5.0	0.8	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)