

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: P636540

Luminaire Tested: GWS-SA4B-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10857 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

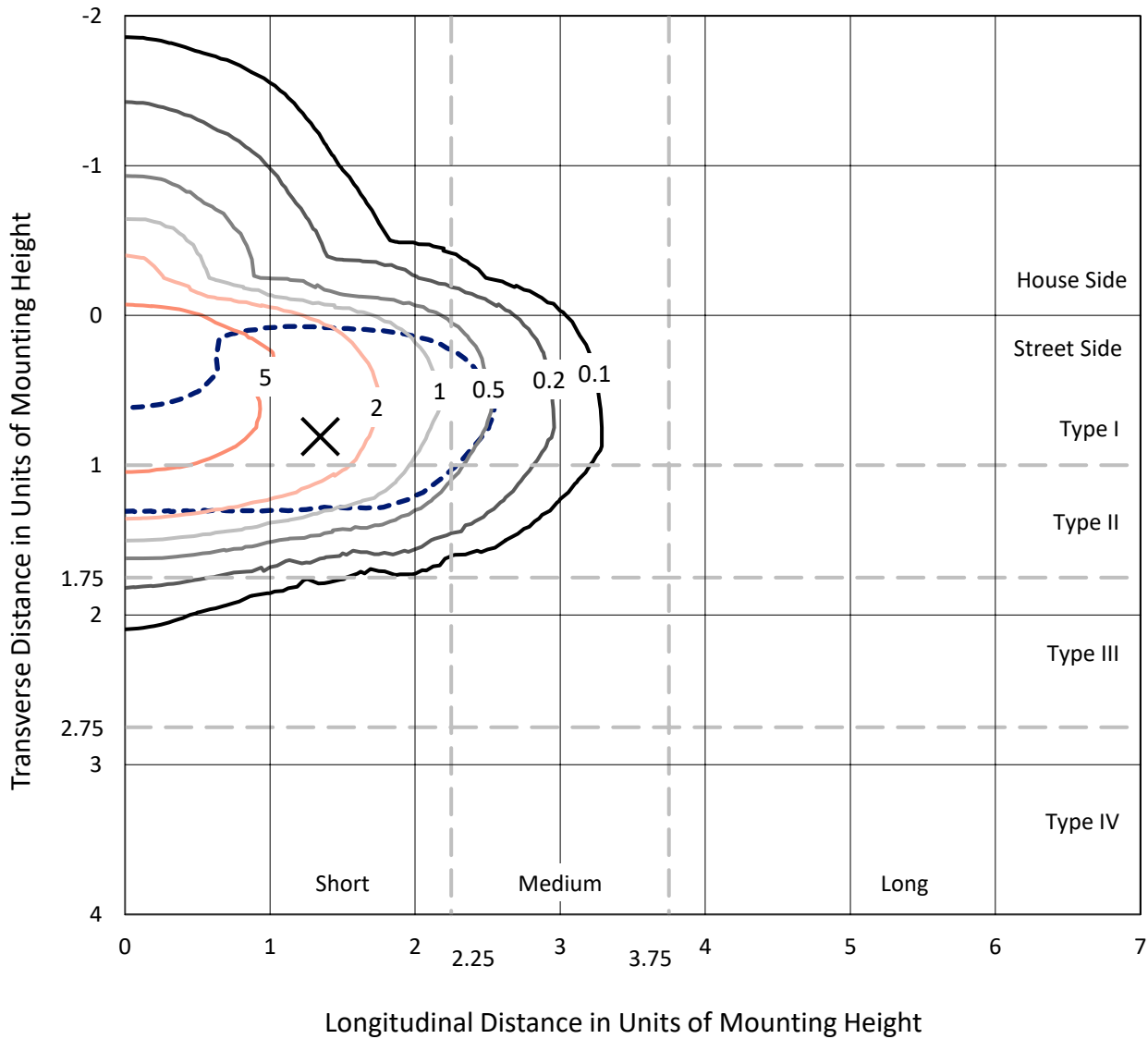
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636540
 CATALOG NUMBER: GWS-SA4B-722-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

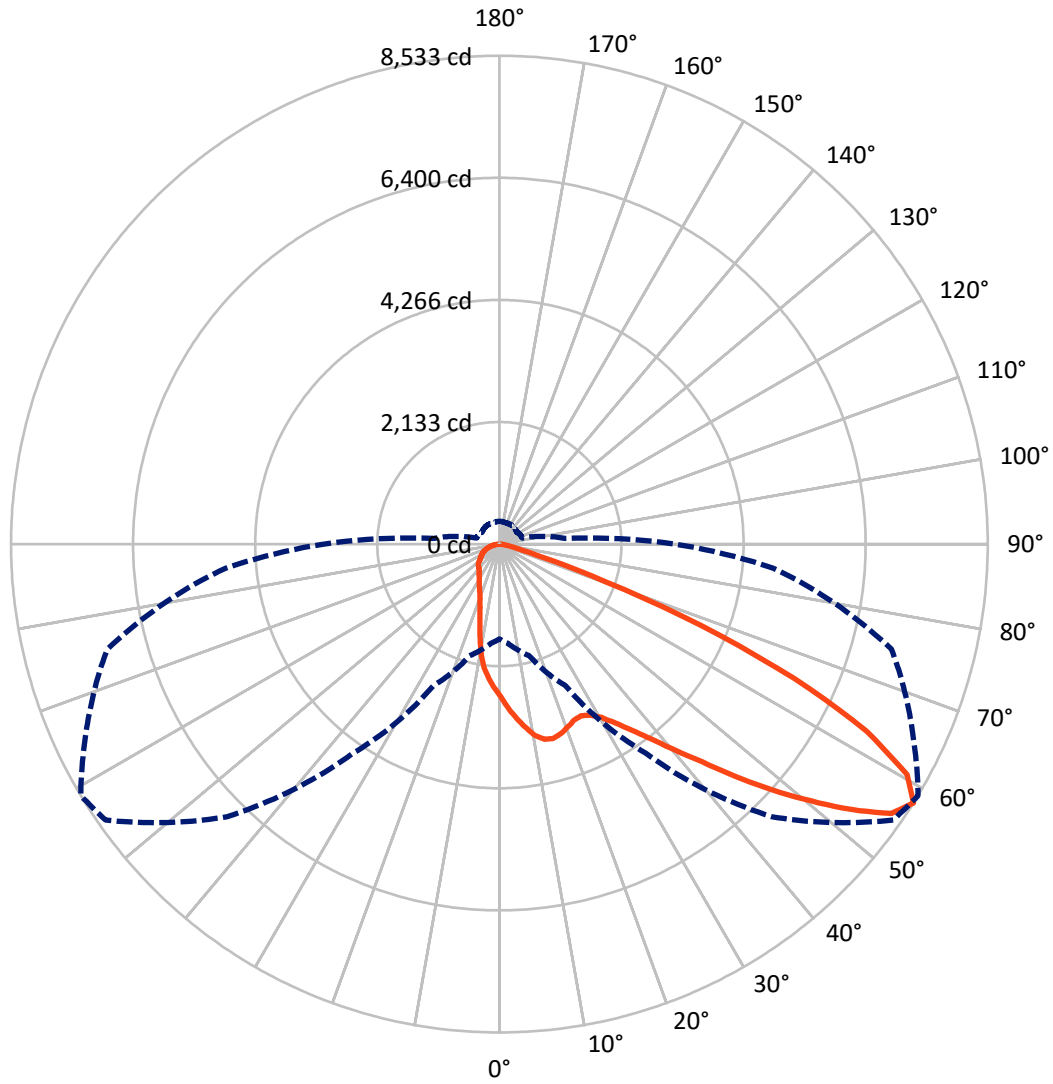
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

REPORT NUMBER: P636540
CATALOG NUMBER: GWS-SA4B-722-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P636540

CATALOG NUMBER: GWS-SA4B-722-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.9	0.0	1684.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9172.1	0.0	9172.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	10857.0	0.0	10857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	2.3
10°-20°	627.1	5.8
20°-30°	1016.5	9.4
30°-40°	1635.2	15.1
40°-50°	2539.3	23.4
50°-60°	2735.1	25.2
60°-70°	1587.4	14.6
70°-80°	414.4	3.8
80°-90°	54.6	0.5
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°	10857.0	100.0
0°-180°	10857.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636540

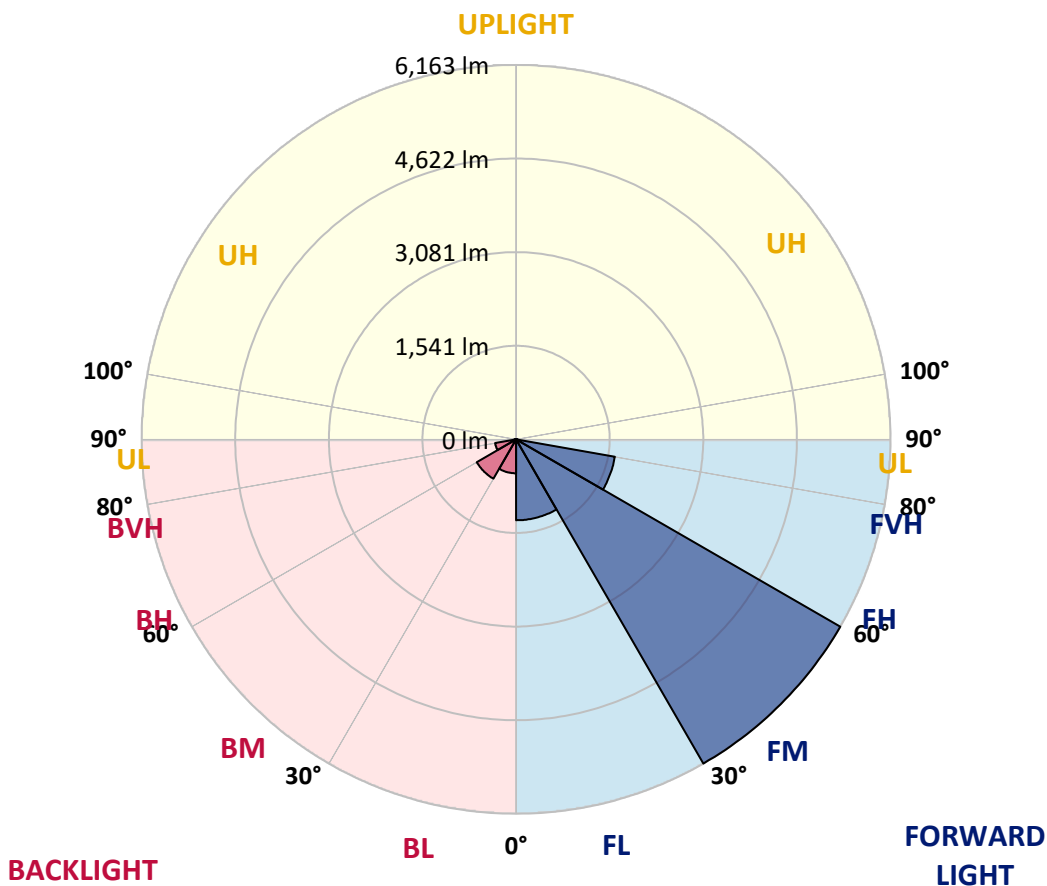
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.1	12.3			
FM (30°-60°)	6162.6	56.8			
FH (60°-80°)	1651.3	15.2			G1/1800
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	559.0	5.1	B2/1000		
BM (30°-60°)	747.0	6.9	B1/1000		
BH (60°-80°)	350.5	3.2	B1/500		G1/500
BVH (80°-90°)	28.4	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-G1

Type II Short





REPORT NUMBER: P636540
 CATALOG NUMBER: GWS-SA4B-722-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2
2.5°	3022.9	2997.7	3015.2	2983.9	2970.9	2936.5	2892.2	2862.4	2816.5	2756.9	2704.9
5°	3323.3	3305.7	3309.5	3275.9	3246.1	3188.7	3097.8	3047.3	2969.4	2849.4	2737.8
7.5°	3314.1	3334.7	3346.2	3375.2	3383.6	3378.3	3296.5	3226.2	3140.6	2960.2	2792.1
10°	2970.9	3009.9	3045.0	3144.4	3265.2	3418.0	3437.1	3395.1	3308.7	3101.6	2857.0
12.5°	2597.2	2627.0	2658.3	2777.5	2962.5	3268.2	3475.4	3501.3	3466.9	3241.5	2930.4
15°	2413.7	2427.5	2457.3	2536.0	2683.5	3022.9	3408.9	3522.7	3584.7	3389.7	3012.9
17.5°	2406.1	2412.2	2426.7	2468.7	2571.2	2833.3	3288.9	3479.9	3677.1	3546.4	3109.2
20°	2564.3	2548.2	2539.1	2538.3	2588.7	2769.9	3172.7	3411.2	3720.7	3706.9	3212.4
22.5°	2783.6	2789.0	2769.1	2720.2	2714.1	2815.0	3114.6	3341.6	3733.7	3849.1	3308.0
25°	3094.7	3121.5	3062.6	2969.4	2923.5	2945.7	3150.5	3320.2	3732.2	3967.6	3367.6
27.5°	3457.8	3478.4	3418.8	3296.5	3201.7	3148.2	3257.5	3383.6	3745.2	4070.0	3403.5
30°	3871.3	3878.1	3796.4	3668.0	3529.6	3415.0	3435.6	3514.3	3811.7	4204.5	3445.5
32.5°	4376.5	4405.5	4281.7	4078.4	3885.0	3738.3	3674.8	3725.3	3955.3	4363.5	3510.5
35°	5017.7	5027.7	4870.2	4579.0	4305.4	4102.1	3969.1	3995.9	4173.9	4585.9	3608.3
37.5°	5622.3	5632.3	5464.9	5194.3	4803.0	4524.8	4332.2	4319.9	4453.7	4900.0	3768.1
40°	6006.0	6034.3	5959.4	5789.7	5416.0	5040.7	4779.3	4737.2	4820.6	5284.5	3990.5
42.5°	6212.4	6224.6	6223.1	6245.2	6022.8	5649.8	5283.7	5199.7	5255.4	5699.5	4215.2
45°	6213.9	6244.5	6326.3	6539.5	6549.4	6317.1	5921.2	5789.7	5738.5	6117.6	4449.9
47.5°	5935.7	5968.6	6193.3	6612.9	6922.4	6975.2	6684.7	6421.0	6205.5	6477.6	4642.5
50°	5093.4	5176.0	5604.0	6346.1	6995.8	7502.5	7413.1	7055.4	6620.5	6755.8	4763.2
52.5°	4362.0	4358.9	4622.6	5592.5	6689.3	7734.9	8117.8	7708.1	7031.0	6932.4	4793.8
55°	3194.1	3211.7	3481.5	4277.1	5871.5	7510.2	8505.3	8308.9	7501.8	7026.4	4781.6
57.5°	1656.3	1743.4	2020.1	2729.4	4461.3	6736.7	8402.1	8532.8	7980.2	7092.9	4797.6
60°	836.9	820.1	919.5	1303.2	2584.9	5261.6	7766.2	8182.8	8066.6	7144.8	4807.6
62.5°	558.7	554.1	526.6	603.8	1056.3	3116.1	6620.5	7204.5	7466.6	7022.6	4680.7
65°	483.8	474.6	424.2	421.1	512.9	1292.5	4852.7	5663.6	6171.1	6479.1	4377.2
67.5°	435.7	421.9	370.7	345.5	368.4	567.9	2734.7	3798.7	4556.9	5479.4	3712.3
70°	389.0	382.2	330.9	294.3	292.0	346.2	1007.4	1960.5	2788.2	3738.3	2714.1
72.5°	348.5	336.3	292.7	257.6	240.0	245.3	437.2	755.1	1443.0	2331.9	1623.4
75°	301.9	292.7	254.5	219.4	198.0	179.6	266.7	349.3	658.1	1108.3	766.6
77.5°	233.1	227.0	201.0	174.3	162.0	133.8	162.0	220.1	304.2	467.0	399.0
80°	135.3	139.1	149.8	136.0	119.2	95.5	105.5	126.9	182.7	253.0	226.2
82.5°	68.0	72.6	97.1	78.7	71.1	55.8	62.7	74.9	95.5	139.9	88.7
85°	5.4	5.4	17.6	19.9	24.5	19.9	25.2	30.6	43.6	55.8	29.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.8	6.9	13.0	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636540
 CATALOG NUMBER: GWS-SA4B-722-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2
2.5°	2669.8	2630.8	2584.2	2545.9	2487.1	2455.8	2416.0	2367.1	2347.2	2338.0	2332.7
5°	2675.1	2606.3	2507.0	2415.2	2313.6	2233.3	2143.9	2050.7	1997.2	1984.2	1975.0
7.5°	2695.0	2598.7	2440.5	2289.1	2100.3	1925.3	1754.9	1586.0	1499.6	1466.7	1463.7
10°	2722.5	2595.6	2373.2	2121.7	1803.0	1526.3	1326.9	1194.6	1138.8	1120.5	1114.4
12.5°	2756.9	2593.3	2284.5	1889.4	1459.8	1198.5	1084.6	1063.2	1070.8	1069.3	1069.3
15°	2800.5	2596.4	2177.5	1626.5	1180.9	1040.2	1042.5	1067.8	1091.4	1095.3	1095.3
17.5°	2847.8	2593.3	2022.4	1362.8	1013.5	1002.8	1037.9	1073.1	1094.5	1097.6	1097.6
20°	2899.1	2578.8	1826.7	1114.4	940.1	979.1	1017.3	1044.8	1057.8	1060.9	1060.9
22.5°	2929.6	2537.5	1614.2	943.2	893.5	941.6	966.9	995.1	996.7	972.2	971.4
25°	2925.0	2460.3	1372.0	833.1	843.8	885.8	917.9	898.1	873.6	859.9	857.6
27.5°	2896.0	2344.2	1125.1	749.8	785.0	832.3	822.4	805.6	799.5	784.2	782.7
30°	2859.3	2201.2	903.4	684.8	723.8	767.4	752.1	750.6	744.4	727.6	727.6
32.5°	2824.2	2053.7	736.0	636.7	684.8	687.9	709.3	710.8	707.8	678.7	675.7
35°	2814.2	1906.2	622.9	598.5	646.6	645.1	675.7	674.9	622.2	581.6	580.9
37.5°	2844.0	1756.4	555.7	567.1	593.9	613.7	638.2	593.9	576.3	551.8	550.3
40°	2907.5	1618.1	521.3	548.8	560.2	589.3	551.1	554.1	549.5	531.2	528.9
42.5°	2991.5	1500.4	502.2	542.7	541.1	548.8	506.7	519.0	525.9	512.1	509.8
45°	3072.6	1397.9	492.2	519.7	527.4	483.0	474.6	486.1	496.8	491.5	489.2
47.5°	3132.2	1309.3	486.9	488.4	509.8	460.9	447.1	452.5	465.5	467.8	467.0
50°	3150.5	1233.6	480.8	462.4	457.8	438.7	428.0	426.5	441.8	452.5	454.0
52.5°	3115.4	1166.3	464.7	439.5	417.3	420.4	416.6	408.9	424.2	438.7	440.2
55°	3063.4	1128.1	439.5	417.3	391.3	403.6	405.1	398.2	408.1	418.1	418.1
57.5°	3067.2	1150.3	415.0	396.7	368.4	384.5	392.9	389.8	389.8	397.4	398.2
60°	3092.4	1182.4	399.0	370.7	345.5	362.3	381.4	378.3	371.5	381.4	381.4
62.5°	3019.8	1139.6	388.3	345.5	321.0	340.9	363.8	362.3	354.6	370.7	372.2
65°	2805.8	1025.0	376.0	314.1	296.6	319.5	339.4	344.7	337.8	359.2	363.1
67.5°	2351.8	862.2	352.4	284.3	272.1	293.5	312.6	320.2	314.9	340.1	343.2
70°	1753.3	697.8	314.9	251.5	242.3	261.4	279.0	282.0	282.8	312.6	315.7
72.5°	1118.2	542.7	265.2	214.8	207.9	222.4	235.4	247.6	253.0	281.3	280.5
75°	623.7	403.6	213.2	181.9	169.7	181.1	196.4	211.0	226.2	267.5	272.1
77.5°	359.2	283.6	168.9	146.0	131.5	143.7	156.7	177.3	223.2	259.1	254.5
80°	202.5	184.2	127.6	107.0	97.8	107.0	116.9	155.9	175.8	191.1	193.4
82.5°	94.8	103.2	87.1	65.7	65.7	71.8	81.0	120.8	133.0	108.5	94.8
85°	34.4	46.6	42.8	33.6	29.8	29.0	50.4	68.8	42.8	38.2	32.9
87.5°	9.2	13.0	12.2	8.4	4.6	3.8	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)