

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: P639248

Luminaire Tested: GWS-SA5B-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17052.6 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

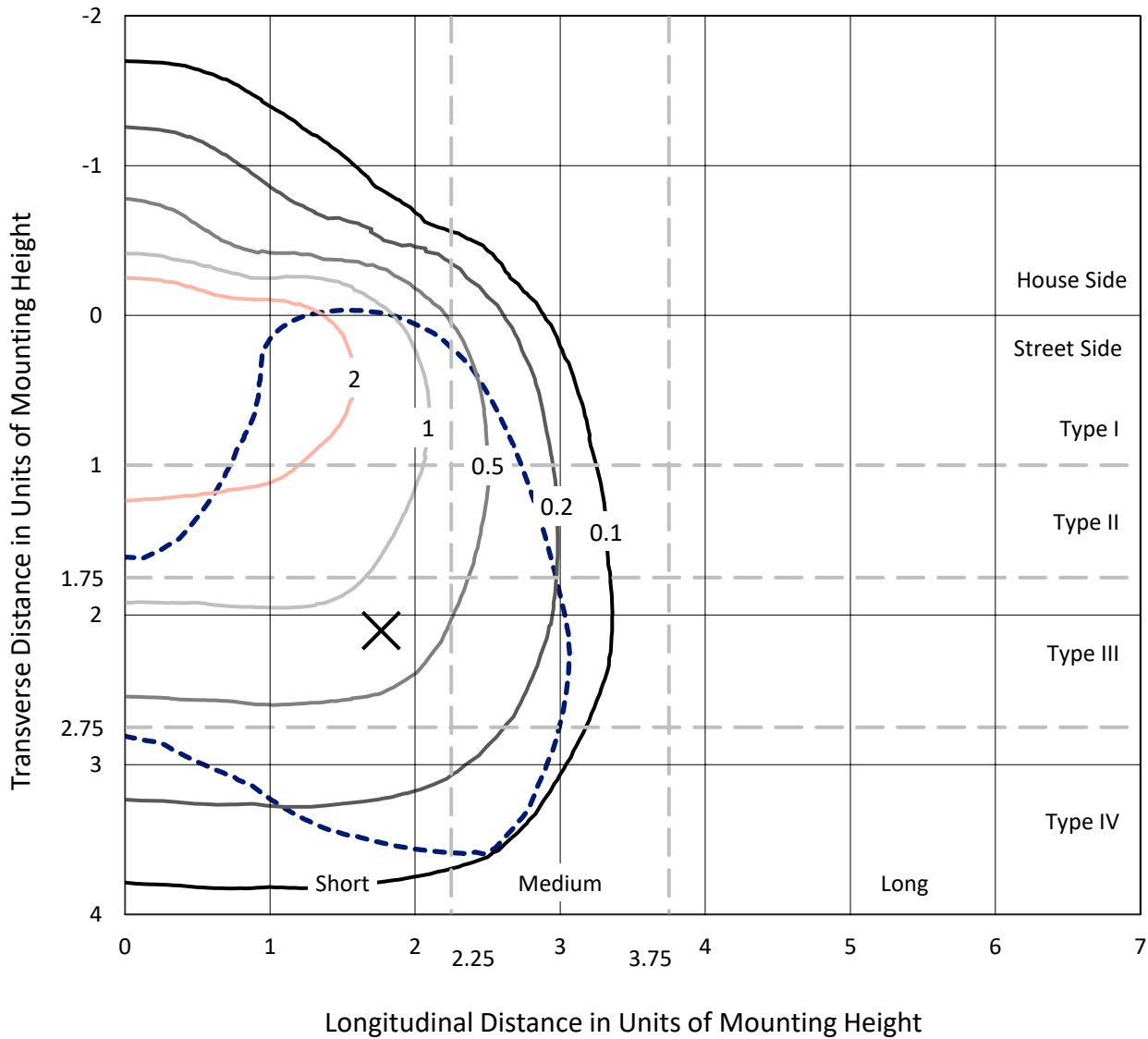
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639248
 CATALOG NUMBER: GWS-SA5B-740-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

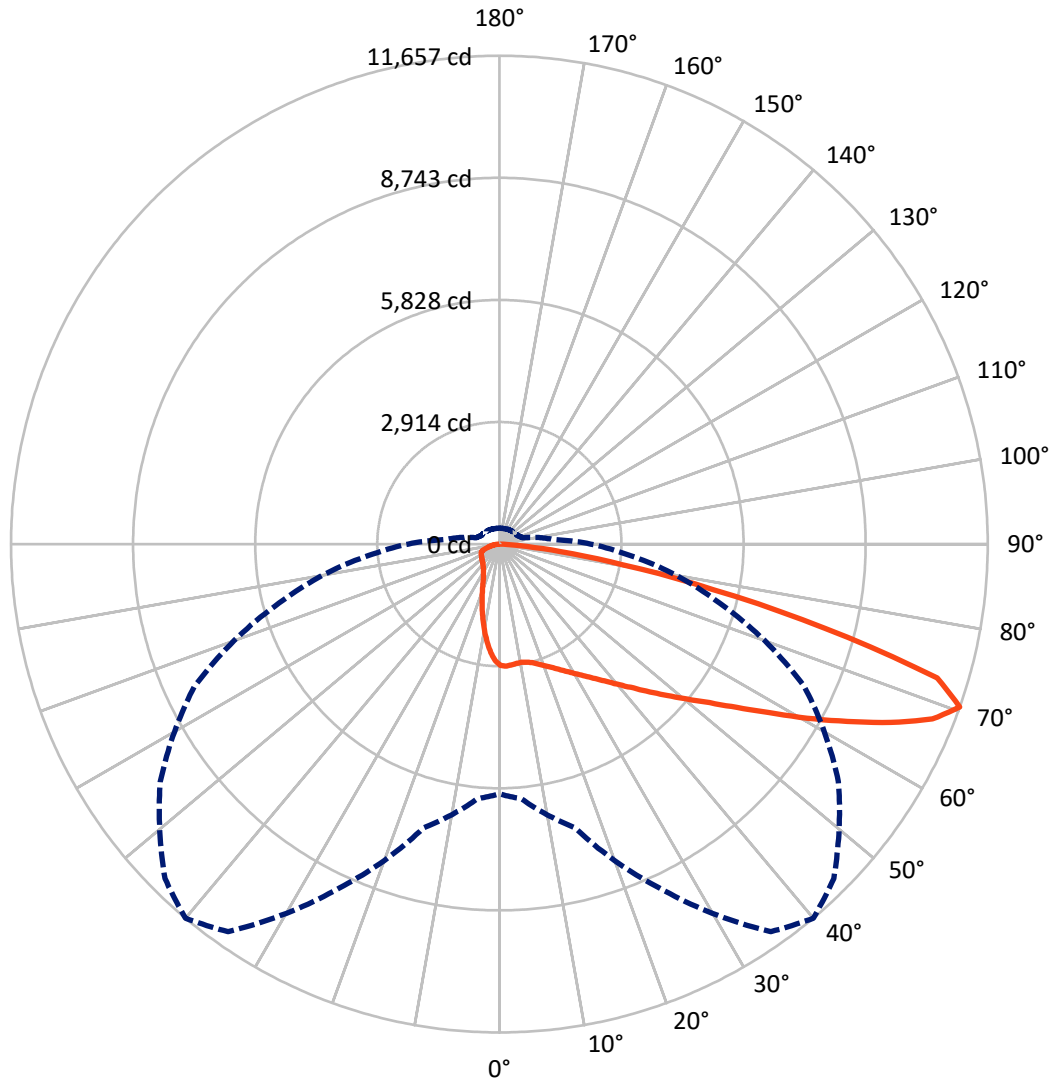
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P639248
CATALOG NUMBER: GWS-SA5B-740-U-SL4-W

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P639248

CATALOG NUMBER: GWS-SA5B-740-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2626.5	0.0	2626.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	14426.1	0.0	14426.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	17052.6	0.0	17052.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.5
10°-20°	666.8	3.9
20°-30°	1047.0	6.1
30°-40°	1574.2	9.2
40°-50°	2429.8	14.2
50°-60°	3608.4	21.2
60°-70°	4548.4	26.7
70°-80°	2630.3	15.4
80°-90°	291.9	1.7
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°	17052.6	100.0
0°-180°	17052.6	100.0

Coefficient of Utilization



REPORT NUMBER: P639248

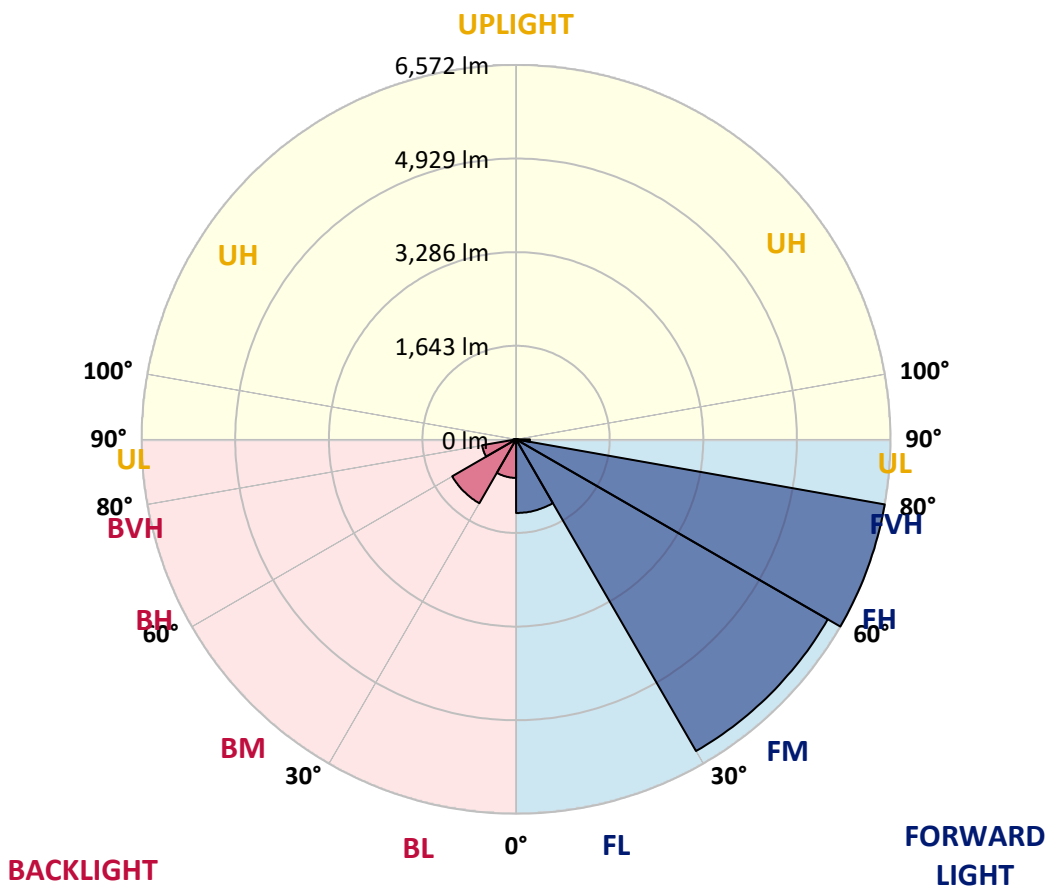
CATALOG NUMBER: GWS-SA5B-740-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1292.7	7.6			
FM (30°-60°)	6317.8	37.0			
FH (60°-80°)	6572.5	38.5			G3/7500
FVH (80°-90°)	243.1	1.4			G3/500
BL (0°-30°)	676.9	4.0	B2/1000		
BM (30°-60°)	1294.6	7.6	B2/2500		
BH (60°-80°)	606.2	3.6	B2/1000		G2/1000
BVH (80°-90°)	48.8	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-G3

Type IV Short





REPORT NUMBER: P639248
 CATALOG NUMBER: GWS-SA5B-740-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7
2.5°	2913.5	2918.6	2922.5	2927.5	2925.0	2917.4	2923.7	2923.7	2909.7	2894.5	2880.5
5°	2917.4	2923.7	2922.5	2921.2	2911.0	2898.3	2898.3	2890.6	2866.5	2842.3	2819.4
7.5°	2909.7	2908.5	2907.2	2903.4	2891.9	2877.9	2875.4	2860.1	2828.3	2795.2	2762.1
10°	2875.4	2874.1	2877.9	2886.8	2884.3	2871.5	2871.5	2857.5	2820.6	2779.9	2736.6
12.5°	2847.4	2847.4	2862.6	2886.8	2895.7	2890.6	2891.9	2881.7	2839.7	2791.4	2740.4
15°	2851.2	2852.5	2885.5	2925.0	2941.5	2937.7	2939.0	2927.5	2880.5	2832.1	2763.4
17.5°	2876.6	2883.0	2940.3	2995.0	3016.6	3011.6	3002.6	2983.6	2930.1	2875.4	2791.4
20°	2930.1	2940.3	3014.1	3082.8	3108.3	3096.8	3081.6	3043.4	2984.8	2925.0	2821.9
22.5°	3035.7	3042.1	3123.6	3191.0	3211.4	3197.4	3166.8	3112.1	3044.7	2982.3	2858.8
25°	3184.7	3192.3	3269.9	3332.3	3327.2	3310.7	3268.7	3201.2	3121.0	3054.8	2912.3
27.5°	3361.6	3374.3	3450.7	3500.3	3467.2	3443.1	3396.0	3314.5	3224.1	3164.3	2993.7
30°	3555.1	3560.2	3625.1	3674.7	3623.8	3590.7	3533.4	3445.6	3364.1	3319.6	3115.9
32.5°	3742.2	3747.3	3803.3	3831.3	3777.8	3753.6	3704.0	3611.1	3553.8	3529.6	3297.9
35°	3939.5	3938.2	3984.0	4008.2	3953.5	3943.3	3892.4	3821.1	3810.9	3842.7	3564.0
37.5°	4136.8	4125.3	4149.5	4181.3	4150.8	4160.9	4127.8	4103.7	4143.1	4225.9	3917.8
40°	4294.6	4294.6	4320.0	4359.5	4369.7	4414.2	4395.1	4427.0	4554.2	4751.5	4355.7
42.5°	4434.6	4435.9	4489.3	4550.4	4624.3	4693.0	4708.3	4791.0	5054.5	5363.8	4905.6
45°	4581.0	4582.2	4654.8	4743.9	4900.5	5031.6	5062.1	5247.9	5624.7	6001.5	5502.5
47.5°	4750.3	4736.3	4836.8	4985.7	5208.5	5396.9	5475.8	5739.3	6215.3	6678.6	6065.1
50°	4941.2	4911.9	5023.9	5281.0	5556.0	5814.4	5946.7	6248.4	6849.2	7303.6	6594.6
52.5°	5156.3	5139.8	5256.9	5570.0	5990.0	6287.9	6467.3	6863.2	7465.2	7926.0	7014.7
55°	5423.6	5384.1	5553.4	5951.8	6499.2	6878.5	7091.0	7471.6	8138.6	8491.2	7335.4
57.5°	5716.4	5673.1	5899.6	6429.2	7161.0	7577.3	7843.3	8156.4	8772.5	8923.9	7523.8
60°	6032.0	6018.0	6286.6	6989.2	7950.2	8433.9	8626.1	8909.9	9323.6	9174.7	7476.7
62.5°	6321.0	6315.9	6706.6	7596.4	8786.5	9318.5	9471.3	9546.4	9720.7	9158.1	7102.5
65°	6625.2	6668.4	7196.7	8300.2	9744.9	10266.8	10330.4	10139.5	9854.4	8724.1	6336.2
67.5°	6663.4	6747.4	7504.7	8959.6	10653.7	11146.3	11095.4	10364.8	9459.8	7516.2	4966.6
70°	5959.5	6105.8	7013.4	9060.1	11294.0	11656.7	11288.9	9879.8	8027.8	5445.2	3123.6
72.5°	4979.4	5105.4	5907.3	7726.2	10467.9	10929.9	10432.3	8362.6	5673.1	3123.6	1591.1
75°	3875.8	4022.2	4761.7	6141.5	7836.9	8021.5	7772.0	5832.2	3118.5	1288.1	723.0
77.5°	2364.9	2470.6	3045.9	4160.9	5483.4	5207.2	4413.0	3269.9	1368.3	617.3	446.8
80°	1046.3	1111.2	1500.7	2235.1	3168.1	2995.0	2361.1	1396.3	748.4	392.0	311.8
82.5°	561.3	603.3	739.5	884.6	1391.2	1454.9	1179.9	804.4	402.2	224.0	178.2
85°	246.9	271.1	336.0	320.8	457.0	449.3	453.1	552.4	192.2	103.1	115.8
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	14.0	73.8	19.1	30.5	26.7
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: P639248
 CATALOG NUMBER: GWS-SA5B-740-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7
2.5°	2865.2	2842.3	2835.9	2828.3	2814.3	2790.1	2772.3	2751.9	2743.0	2732.8	2734.1
5°	2793.9	2765.9	2739.2	2704.8	2661.5	2613.2	2580.1	2541.9	2521.5	2502.4	2507.5
7.5°	2732.8	2689.5	2634.8	2562.2	2484.6	2398.0	2328.0	2273.3	2236.4	2210.9	2223.7
10°	2694.6	2643.7	2548.2	2429.9	2298.8	2166.4	2065.8	1971.6	1913.1	1867.3	1864.7
12.5°	2687.0	2620.8	2482.1	2310.2	2120.6	1943.6	1796.0	1668.7	1591.1	1533.8	1555.4
15°	2694.6	2610.6	2424.8	2199.5	1960.2	1720.9	1537.6	1391.2	1298.3	1246.1	1242.3
17.5°	2703.5	2600.4	2359.9	2079.8	1792.2	1518.5	1305.9	1150.7	1055.2	1003.0	1004.3
20°	2711.2	2585.2	2283.5	1948.7	1621.6	1330.1	1109.9	962.3	877.0	838.8	845.2
22.5°	2723.9	2569.9	2202.0	1808.7	1447.2	1148.1	954.6	835.0	784.1	758.6	759.9
25°	2748.1	2561.0	2118.0	1656.0	1275.4	1003.0	847.7	767.5	735.7	720.4	719.2
27.5°	2797.7	2568.6	2030.2	1508.3	1120.1	892.3	779.0	726.8	705.2	695.0	693.7
30°	2880.5	2599.2	1953.8	1358.1	986.5	805.7	731.9	700.1	687.3	678.4	677.2
32.5°	3006.5	2656.4	1871.1	1218.1	878.3	742.1	695.0	678.4	669.5	664.4	664.4
35°	3197.4	2760.8	1789.6	1095.9	794.3	692.4	665.7	659.3	651.7	649.2	651.7
37.5°	3472.3	2927.5	1715.8	989.0	734.4	654.2	633.9	636.4	630.1	633.9	637.7
40°	3821.1	3150.3	1653.4	901.2	689.9	626.2	605.9	614.8	611.0	614.8	621.1
42.5°	4262.8	3426.5	1606.3	832.4	658.1	603.3	584.2	593.1	590.6	595.7	602.1
45°	4755.4	3790.5	1584.7	784.1	635.2	586.8	566.4	572.8	570.2	574.1	580.4
47.5°	5227.6	4121.5	1603.8	756.1	616.1	572.8	551.1	553.7	552.4	551.1	555.0
50°	5634.9	4385.0	1658.5	747.2	603.3	558.8	538.4	539.7	535.9	528.2	530.8
52.5°	5967.1	4596.3	1691.6	747.2	597.0	543.5	524.4	525.7	518.0	507.9	509.1
55°	6186.0	4681.5	1664.9	745.9	594.4	530.8	510.4	511.7	504.0	491.3	492.6
57.5°	6248.4	4598.8	1552.9	731.9	591.9	520.6	496.4	499.0	493.9	479.9	479.9
60°	6074.0	4295.9	1347.9	700.1	585.5	514.2	486.2	490.0	487.5	473.5	473.5
62.5°	5617.1	3757.4	1103.6	651.7	567.7	506.6	477.3	485.0	491.3	483.7	482.4
65°	4761.7	3010.3	897.4	598.2	544.8	493.9	464.6	483.7	497.7	507.9	507.9
67.5°	3572.9	2154.9	731.9	542.2	510.4	468.4	448.0	465.9	476.0	482.4	486.2
70°	2177.8	1267.8	576.6	477.3	460.8	430.2	414.9	397.1	383.1	380.6	381.9
72.5°	1065.4	725.5	468.4	406.0	393.3	365.3	330.9	323.3	316.9	313.1	311.8
75°	586.8	505.3	386.9	337.3	314.4	280.0	272.4	259.7	257.1	252.0	253.3
77.5°	414.9	398.4	319.5	273.7	239.3	221.5	225.3	216.4	216.4	212.6	211.3
80°	311.8	313.1	245.7	199.8	176.9	170.6	174.4	174.4	171.8	170.6	169.3
82.5°	197.3	222.7	165.5	128.6	126.0	127.3	126.0	124.7	127.3	123.5	122.2
85°	136.2	160.4	100.6	76.4	76.4	75.1	77.6	76.4	78.9	75.1	75.1
87.5°	30.5	71.3	36.9	22.9	24.2	22.9	24.2	25.5	28.0	29.3	29.3
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)