

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: P640008

Luminaire Tested: GWS-SA5D-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22779.2 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

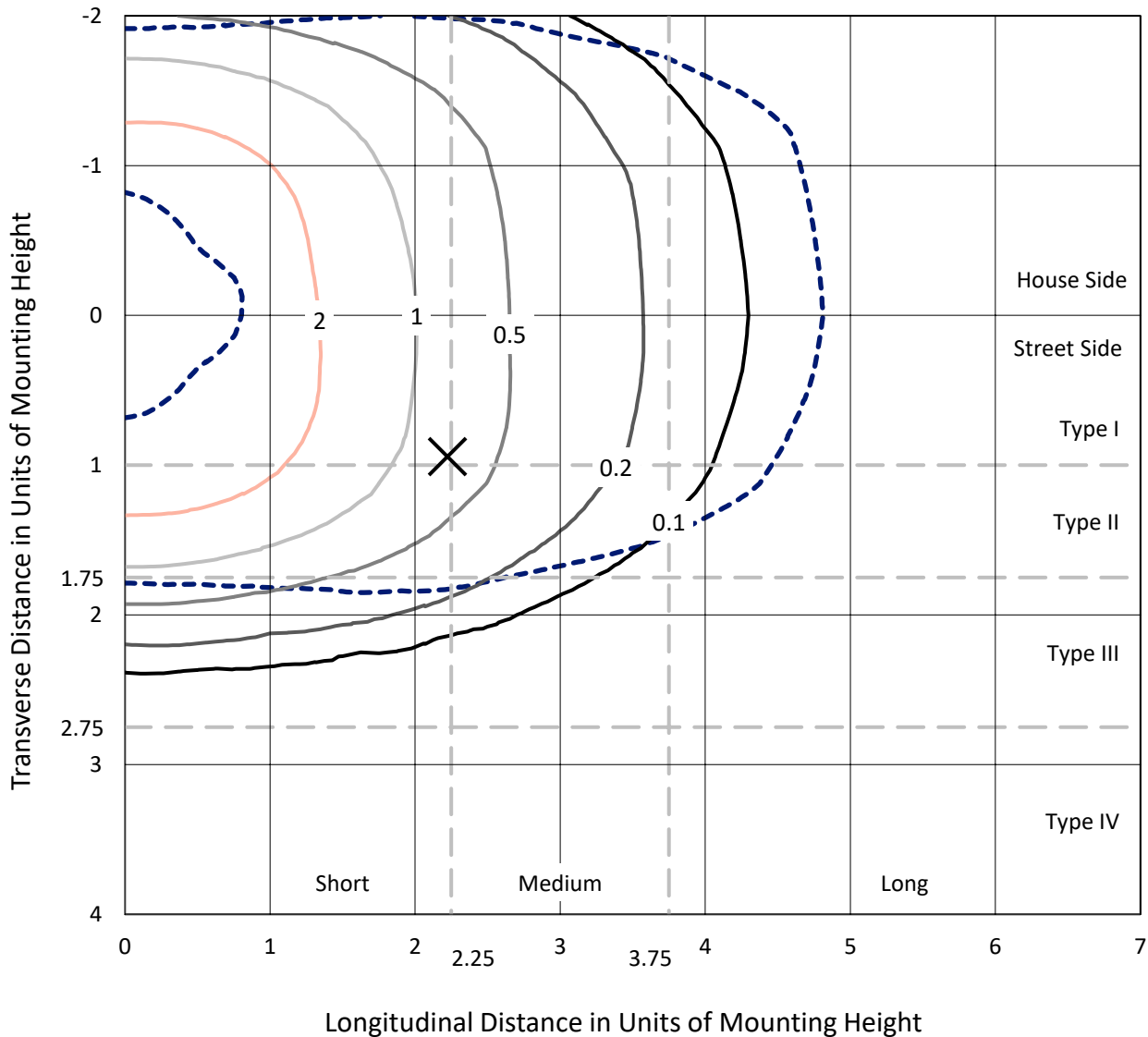
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640008
 CATALOG NUMBER: GWS-SA5D-722-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

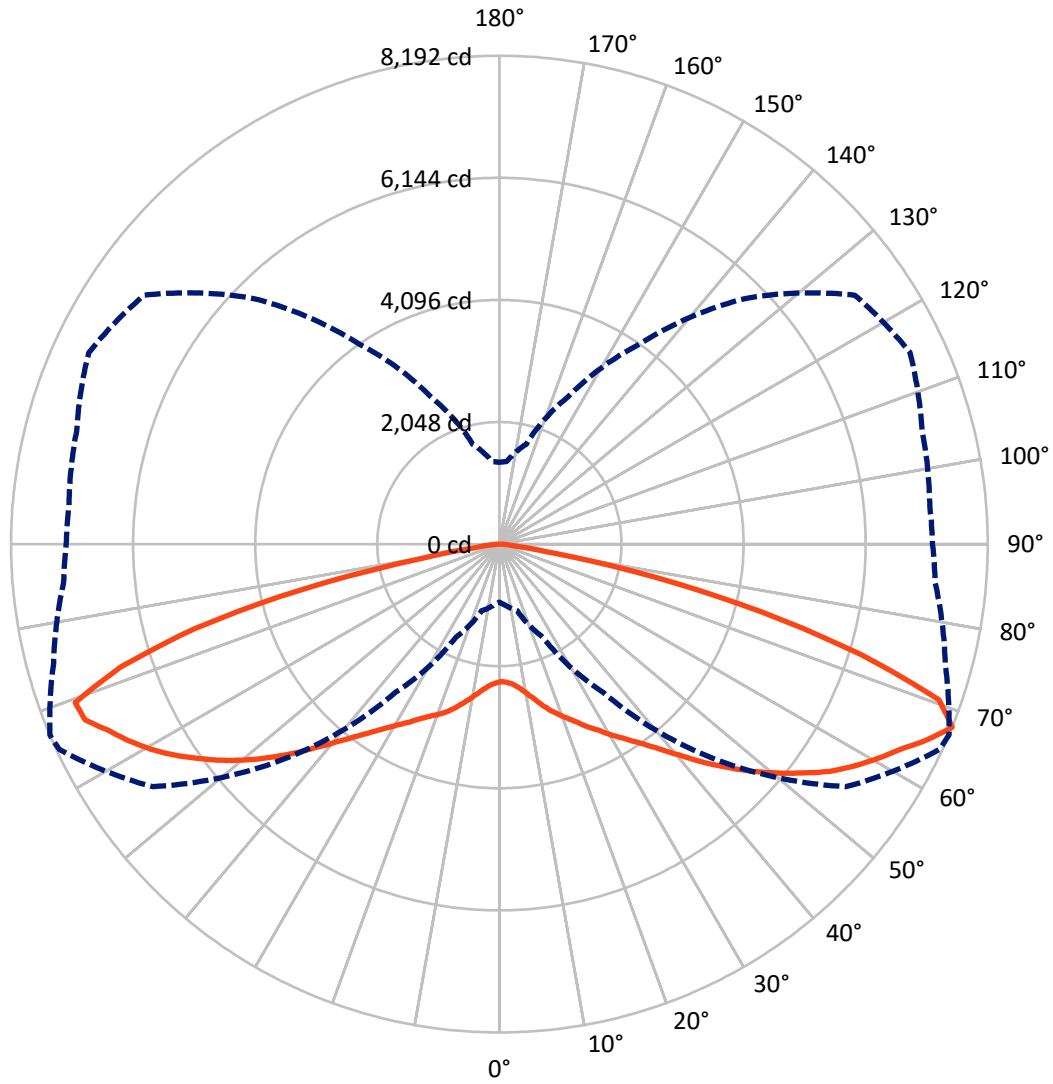
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P640008
CATALOG NUMBER: GWS-SA5D-722-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P640008

CATALOG NUMBER: GWS-SA5D-722-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11263.9	0.0	11263.9
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	11515.3	0.0	11515.3
	% Fixture	50.6	0.0	50.6
Total	Lumens	22779.2	0.0	22779.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	1.0
10°-20°	764.5	3.4
20°-30°	1500.0	6.6
30°-40°	2555.5	11.2
40°-50°	4103.6	18.0
50°-60°	5575.9	24.5
60°-70°	5333.8	23.4
70°-80°	2535.9	11.1
80°-90°	183.8	0.8
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°	22779.2	100.0
0°-180°	22779.2	100.0

Coefficient of Utilization



REPORT NUMBER: P640008

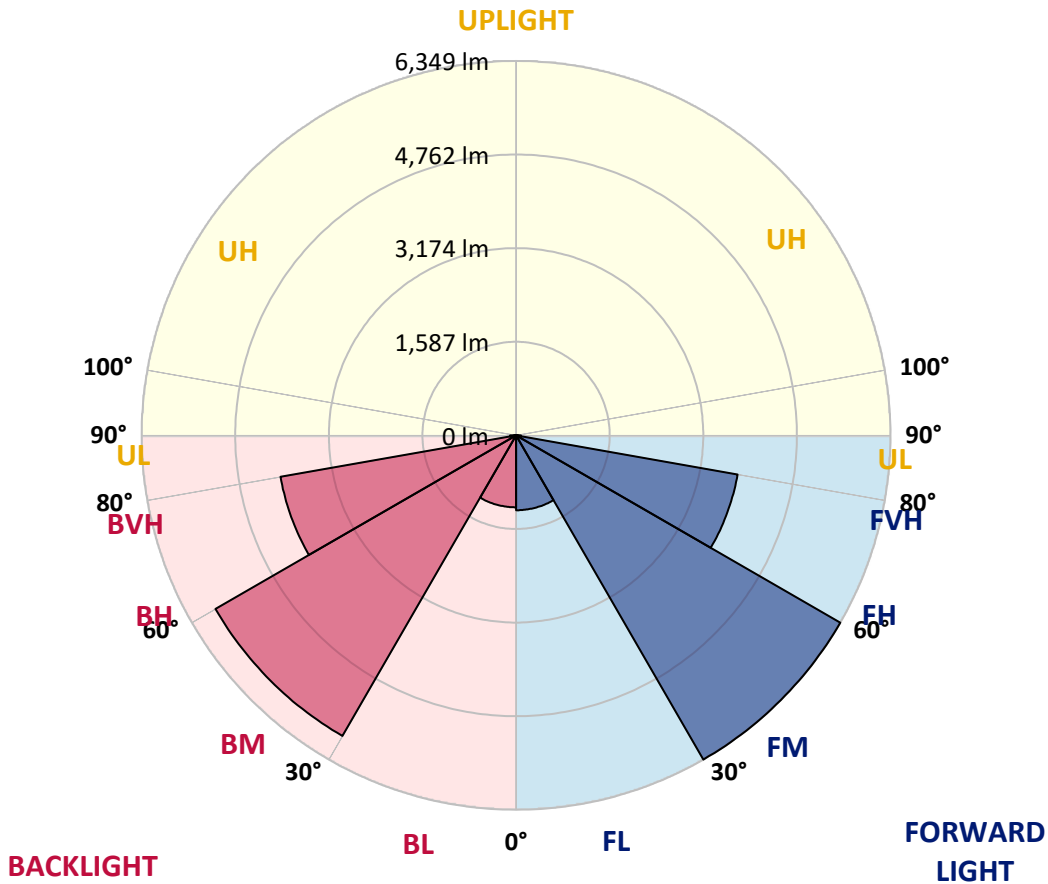
CATALOG NUMBER: GWS-SA5D-722-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.1	5.6			
FM (30°-60°)	6348.8	27.9			
FH (60°-80°)	3813.8	16.7			G2/5000
FVH (80°-90°)	82.6	0.4			G1/100
BL (0°-30°)	1220.7	5.4	B3/2500		
BM (30°-60°)	5886.2	25.8	B4/8500		
BH (60°-80°)	4055.8	17.8	B4/5000		G4/5000
BVH (80°-90°)	101.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P640008
 CATALOG NUMBER: GWS-SA5D-722-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5
2.5°	2258.9	2262.1	2266.9	2276.4	2285.9	2300.2	2314.5	2312.9	2319.2	2324.0	2328.7
5°	2246.2	2249.4	2257.3	2270.0	2284.3	2308.1	2338.2	2350.9	2360.5	2377.9	2393.8
7.5°	2273.2	2279.6	2290.7	2308.1	2330.3	2360.5	2401.7	2423.9	2438.2	2469.9	2496.9
10°	2309.7	2317.6	2339.8	2373.1	2406.5	2452.5	2504.8	2538.1	2547.6	2588.9	2639.6
12.5°	2344.6	2354.1	2390.6	2450.9	2511.2	2573.0	2634.9	2676.1	2679.3	2734.8	2791.9
15°	2400.1	2408.0	2457.2	2535.0	2627.0	2712.6	2788.8	2817.3	2830.0	2869.7	2941.1
17.5°	2522.3	2531.8	2595.2	2679.3	2776.1	2866.5	2942.6	2966.4	2966.4	2999.7	3058.4
20°	2653.9	2663.4	2747.5	2855.4	2972.8	3064.8	3123.5	3101.3	3093.3	3102.9	3144.1
22.5°	2801.5	2818.9	2899.8	3025.1	3169.5	3282.1	3312.3	3245.6	3223.4	3201.2	3210.7
25°	2990.2	3010.9	3090.2	3223.4	3364.6	3483.6	3501.0	3397.9	3385.2	3307.5	3278.9
27.5°	3207.6	3223.4	3321.8	3453.4	3585.1	3685.0	3704.1	3577.2	3534.3	3426.5	3359.8
30°	3488.3	3502.6	3588.3	3718.4	3832.6	3902.4	3926.2	3751.7	3718.4	3553.4	3450.3
32.5°	3794.5	3800.8	3888.1	4013.4	4114.9	4181.6	4148.2	3945.2	3896.0	3710.4	3569.2
35°	4145.1	4145.1	4257.7	4359.2	4440.1	4459.2	4395.7	4164.1	4107.0	3905.5	3729.5
37.5°	4489.3	4498.8	4603.5	4724.1	4795.5	4792.3	4676.5	4422.7	4357.6	4138.7	3943.6
40°	4862.1	4882.7	4987.4	5122.3	5190.5	5180.9	5003.3	4720.9	4654.3	4395.7	4205.4
42.5°	5204.7	5238.1	5360.2	5498.2	5572.8	5566.4	5380.8	5063.6	4998.5	4706.6	4516.3
45°	5477.6	5512.5	5664.8	5856.7	5975.7	5964.6	5777.4	5418.9	5339.6	5033.4	4824.0
47.5°	5717.1	5753.6	5923.3	6126.4	6315.2	6334.2	6162.9	5777.4	5693.3	5384.0	5147.6
50°	5901.1	5918.6	6108.9	6331.0	6549.9	6656.2	6507.1	6137.5	6036.0	5729.8	5463.3
52.5°	5886.9	5910.7	6145.4	6446.8	6740.3	6914.8	6811.7	6477.0	6378.6	6045.5	5785.3
55°	5596.6	5620.4	5899.6	6339.0	6846.6	7103.6	7092.5	6800.6	6729.2	6367.5	6120.1
57.5°	5173.0	5225.4	5503.0	5977.3	6707.0	7254.3	7298.7	7095.6	7021.1	6683.2	6451.6
60°	4414.8	4484.5	4805.0	5420.5	6259.7	7203.5	7519.2	7344.7	7298.7	6976.7	6751.4
62.5°	3207.6	3258.3	3685.0	4492.5	5596.6	6841.8	7704.8	7601.7	7566.8	7240.0	7022.7
65°	1921.0	2036.8	2379.5	3177.4	4514.7	6159.7	7603.3	7938.0	7901.5	7511.3	7254.3
67.5°	972.4	1024.8	1159.6	1722.8	3036.2	5096.9	7094.1	8147.4	8191.8	7742.9	7336.8
70°	602.8	617.1	655.2	850.3	1516.5	3348.7	5801.2	7601.7	7819.0	7706.4	7122.6
72.5°	483.8	487.0	493.3	529.8	728.1	1565.7	3667.6	5953.5	6345.3	7197.2	6816.5
75°	401.3	402.9	404.5	415.6	453.7	639.3	1784.6	4091.1	4549.6	6116.9	6319.9
77.5°	322.0	314.1	320.4	325.2	334.7	356.9	615.5	2182.8	2647.6	4015.0	4887.5
80°	209.4	206.2	218.9	223.7	233.2	247.5	328.4	740.8	899.4	1461.0	1554.6
82.5°	112.6	106.3	133.3	128.5	133.3	144.4	193.5	271.3	304.6	441.0	372.8
85°	34.9	34.9	36.5	42.8	52.3	50.8	84.1	133.3	147.5	188.8	139.6
87.5°	6.3	6.3	6.3	6.3	6.3	7.9	17.4	27.0	36.5	65.0	49.2
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: P640008
 CATALOG NUMBER: GWS-SA5D-722-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5	2306.5
2.5°	2338.2	2324.0	2331.9	2336.7	2335.1	2331.9	2316.0	2312.9	2304.9	2292.2	2289.1
5°	2408.0	2392.2	2393.8	2389.0	2373.1	2352.5	2317.6	2300.2	2285.9	2270.0	2268.4
7.5°	2517.5	2500.1	2495.3	2473.1	2428.7	2381.1	2325.6	2293.8	2270.0	2249.4	2246.2
10°	2657.1	2639.6	2623.8	2571.4	2498.5	2435.0	2362.0	2316.0	2281.1	2255.8	2251.0
12.5°	2812.6	2798.3	2758.6	2682.5	2595.2	2520.7	2446.1	2389.0	2338.2	2300.2	2295.4
15°	2985.5	2953.7	2893.5	2795.1	2712.6	2652.3	2561.9	2484.2	2403.3	2352.5	2341.4
17.5°	3106.0	3079.1	3007.7	2912.5	2847.5	2795.1	2688.8	2577.8	2468.3	2393.8	2377.9
20°	3191.7	3163.1	3082.2	3012.4	2991.8	2947.4	2823.7	2695.2	2568.3	2476.3	2455.6
22.5°	3253.6	3223.4	3140.9	3106.0	3134.6	3126.7	3006.1	2860.1	2709.4	2600.0	2574.6
25°	3312.3	3283.7	3210.7	3223.4	3299.6	3323.4	3193.3	3023.5	2852.2	2723.7	2693.6
27.5°	3367.8	3331.3	3298.0	3367.8	3475.6	3520.1	3382.1	3190.1	3004.5	2872.8	2849.0
30°	3453.4	3410.6	3405.8	3507.4	3678.7	3716.8	3564.5	3372.5	3188.5	3055.3	3025.1
32.5°	3561.3	3521.6	3524.8	3677.1	3875.4	3907.1	3777.0	3597.8	3413.8	3280.5	3239.3
35°	3707.2	3658.1	3685.0	3872.2	4072.1	4130.8	4026.1	3877.0	3697.7	3561.3	3515.3
37.5°	3908.7	3837.3	3892.8	4089.6	4291.0	4378.3	4297.4	4186.3	4008.7	3870.6	3827.8
40°	4165.7	4107.0	4129.2	4346.5	4554.3	4659.0	4608.3	4498.8	4322.7	4178.4	4129.2
42.5°	4470.3	4411.6	4403.6	4635.3	4843.1	5001.7	4952.5	4852.6	4670.1	4505.2	4457.6
45°	4768.5	4714.6	4725.7	4962.0	5195.2	5368.1	5319.0	5201.6	5003.3	4812.9	4774.8
47.5°	5079.4	5035.0	5044.5	5295.2	5552.1	5725.1	5663.2	5520.4	5288.8	5085.8	5039.8
50°	5398.3	5347.5	5361.8	5625.1	5902.7	6066.1	5970.9	5760.0	5504.6	5306.3	5266.6
52.5°	5715.5	5655.3	5691.7	5940.8	6227.9	6358.0	6181.9	5926.5	5679.1	5482.3	5437.9
55°	6080.4	6016.9	5977.3	6243.8	6527.7	6581.7	6340.6	6042.3	5748.9	5525.2	5498.2
57.5°	6413.5	6359.6	6285.0	6551.5	6760.9	6721.3	6462.7	6010.6	5579.1	5292.0	5253.9
60°	6711.8	6665.8	6600.7	6827.6	6922.7	6833.9	6364.3	5634.6	5160.3	4860.5	4843.1
62.5°	6986.2	6937.0	6876.7	7070.3	7057.6	6851.4	5917.0	5057.2	4422.7	4100.7	4072.1
65°	7203.5	7159.1	7141.6	7293.9	7273.3	6510.3	5220.6	4111.8	3231.4	2868.1	2857.0
67.5°	7265.4	7247.9	7341.5	7600.1	7278.1	5825.0	4094.3	2726.9	1735.4	1391.2	1370.6
70°	7033.8	7032.2	7300.3	7669.9	6618.2	4449.7	2416.0	1229.4	872.5	774.1	761.4
72.5°	6732.4	6727.6	6940.2	6616.6	4908.1	2435.0	1016.8	658.3	545.7	518.7	518.7
75°	6237.4	6224.8	6385.0	5033.4	2760.2	916.9	539.4	452.1	428.3	423.5	423.5
77.5°	5084.2	4977.9	4725.7	3110.8	962.9	450.5	356.9	355.3	341.1	339.5	339.5
80°	1672.0	1672.0	1943.3	1186.6	425.1	277.6	252.2	264.9	250.6	241.1	239.5
82.5°	272.8	376.0	534.6	339.5	230.0	172.9	155.5	165.0	172.9	138.0	138.0
85°	107.9	141.2	206.2	158.6	106.3	69.8	74.6	82.5	73.0	63.5	61.9
87.5°	41.2	50.8	73.0	38.1	22.2	12.7	7.9	7.9	6.3	6.3	6.3
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)