

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: P640118

Luminaire Tested: GWS-SA5D-730-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640118
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-730-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28160.7 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

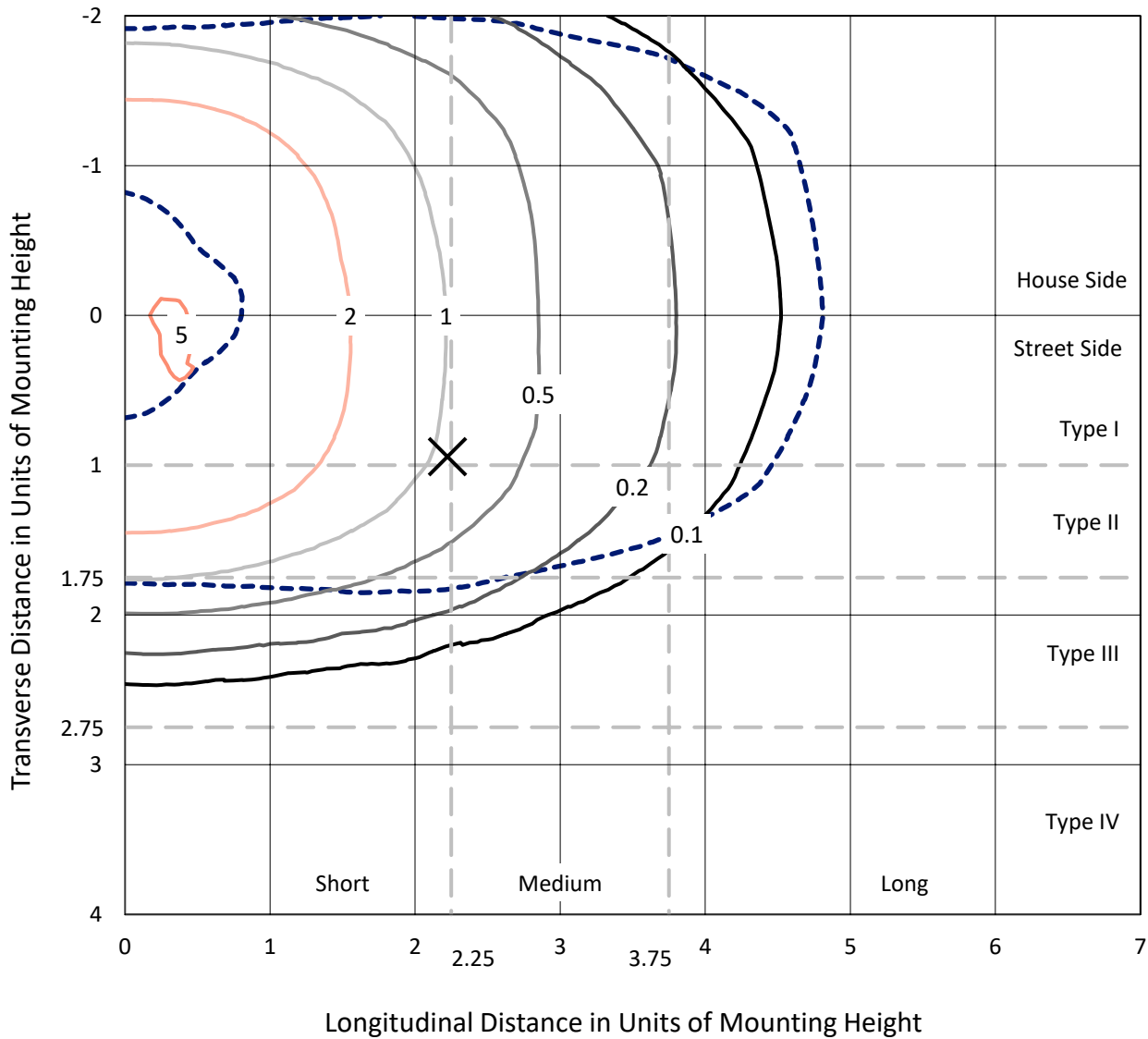
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640118
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Iso-Footcandle Lines of Horizontal Illumination

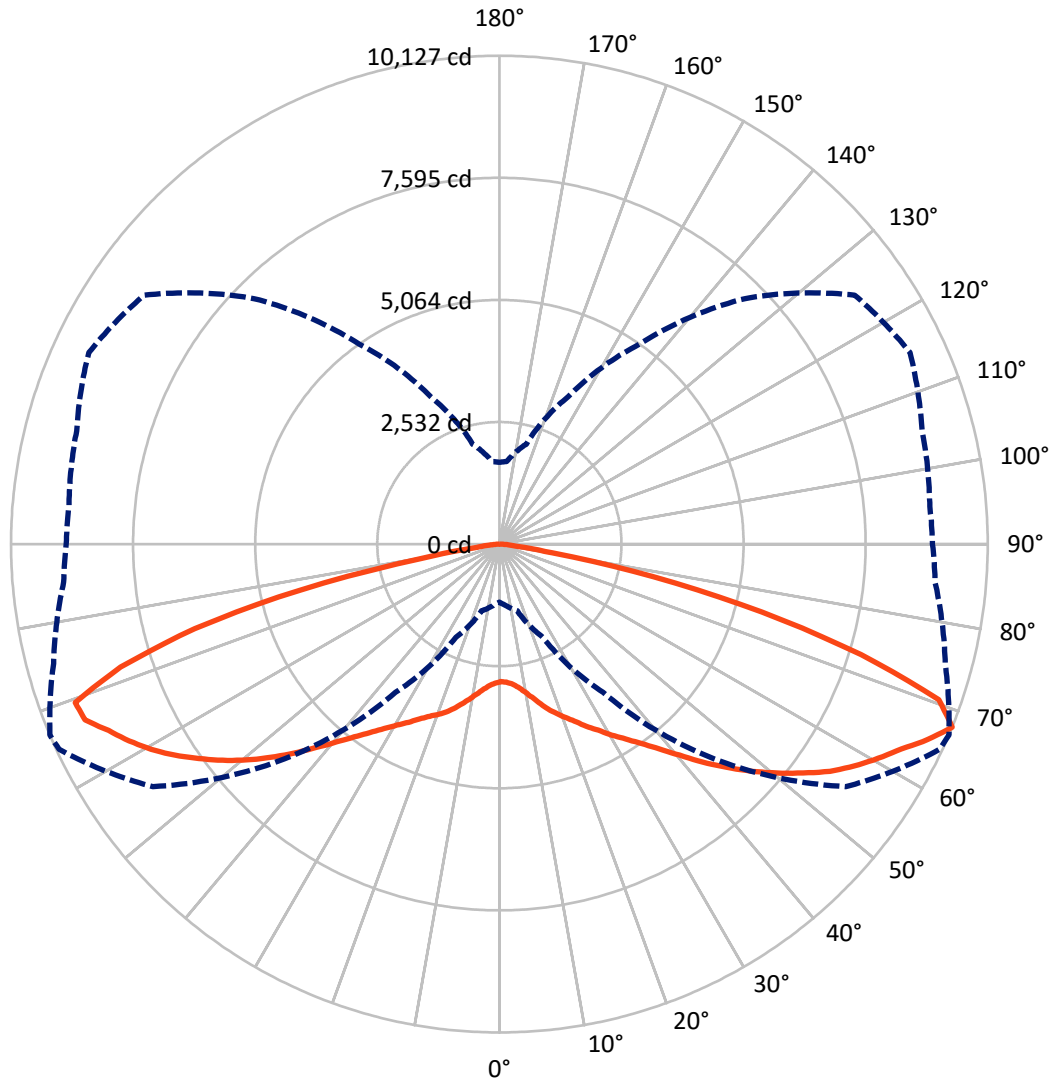
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P640118
CATALOG NUMBER: GWS-SA5D-730-U-RW-W

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13925.0	0.0	13925.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	14235.7	0.0	14235.7
	% Fixture	50.6	0.0	50.6
Total	Lumens	28160.7	0.0	28160.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	1.0
10°-20°	945.1	3.4
20°-30°	1854.3	6.6
30°-40°	3159.2	11.2
40°-50°	5073.1	18.0
50°-60°	6893.2	24.5
60°-70°	6593.8	23.4
70°-80°	3134.9	11.1
80°-90°	227.2	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°	28160.7	100.0
0°-180°	28160.7	100.0

Coefficient of Utilization



REPORT NUMBER: P640118

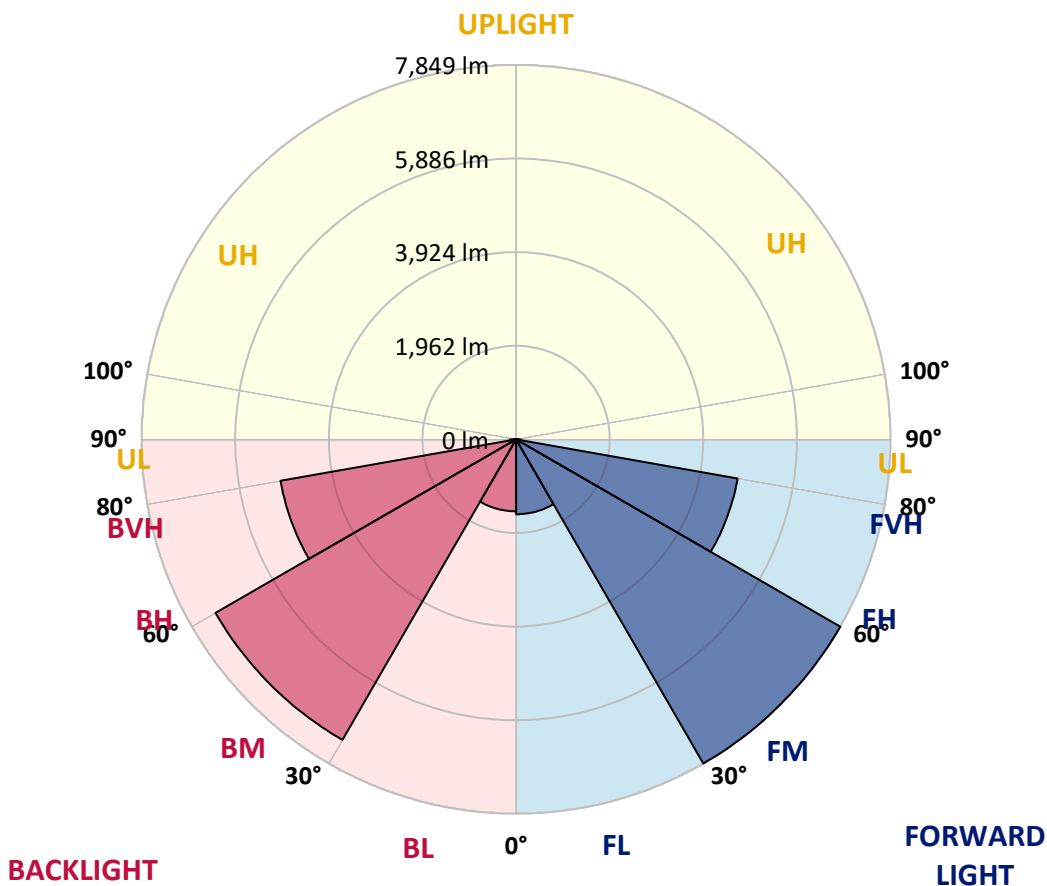
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.2	5.6			
FM (30°-60°)	7848.6	27.9			
FH (60°-80°)	4714.8	16.7			G2/5000
FVH (80°-90°)	102.1	0.4			G2/225
BL (0°-30°)	1509.1	5.4	B3/2500		
BM (30°-60°)	7276.9	25.8	B4/8500		
BH (60°-80°)	5013.9	17.8	B5		G5
BVH (80°-90°)	125.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





REPORT NUMBER: P640118
 CATALOG NUMBER: GWS-SA5D-730-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2.5°	2792.6	2796.5	2802.4	2814.2	2825.9	2843.6	2861.2	2859.3	2867.1	2873.0	2878.9
5°	2776.9	2780.8	2790.6	2806.3	2824.0	2853.4	2890.6	2906.3	2918.1	2939.7	2959.3
7.5°	2810.2	2818.1	2831.8	2853.4	2880.8	2918.1	2969.1	2996.5	3014.2	3053.4	3086.8
10°	2855.4	2865.2	2892.6	2933.8	2975.0	3031.8	3096.6	3137.7	3149.5	3200.5	3263.3
12.5°	2898.5	2910.3	2955.4	3029.9	3104.4	3180.9	3257.4	3308.4	3312.3	3380.9	3451.5
15°	2967.1	2976.9	3037.7	3133.8	3247.6	3353.5	3447.6	3482.9	3498.6	3547.6	3635.9
17.5°	3118.1	3129.9	3208.3	3312.3	3431.9	3543.7	3637.8	3667.2	3667.2	3708.4	3781.0
20°	3280.9	3292.7	3396.6	3530.0	3675.1	3788.8	3861.4	3833.9	3824.1	3835.9	3886.9
22.5°	3463.3	3484.9	3584.9	3739.8	3918.3	4057.5	4094.8	4012.4	3984.9	3957.5	3969.3
25°	3696.7	3722.2	3820.2	3984.9	4159.5	4306.6	4328.1	4200.7	4185.0	4088.9	4053.6
27.5°	3965.3	3984.9	4106.5	4269.3	4432.1	4555.6	4579.1	4422.3	4369.3	4236.0	4153.6
30°	4312.4	4330.1	4436.0	4596.8	4738.0	4824.3	4853.7	4638.0	4596.8	4392.8	4265.4
32.5°	4690.9	4698.8	4806.6	4961.6	5087.1	5169.4	5128.3	4877.2	4816.4	4587.0	4412.5
35°	5124.3	5124.3	5263.6	5389.1	5489.1	5512.6	5434.2	5147.9	5077.3	4828.2	4610.5
37.5°	5549.9	5561.7	5691.1	5840.1	5928.4	5924.5	5781.3	5467.5	5387.1	5116.5	4875.3
40°	6010.7	6036.2	6165.7	6332.4	6416.7	6404.9	6185.3	5836.2	5753.8	5434.2	5198.9
42.5°	6434.3	6475.5	6626.5	6797.1	6889.3	6881.5	6652.0	6259.8	6179.4	5818.6	5583.2
45°	6771.7	6814.8	7003.1	7240.4	7387.4	7373.7	7142.3	6699.1	6601.0	6222.5	5963.7
47.5°	7067.8	7112.9	7322.7	7573.7	7807.1	7830.6	7618.8	7142.3	7038.4	6655.9	6363.7
50°	7295.3	7316.8	7552.2	7826.7	8097.3	8228.7	8044.4	7587.5	7462.0	7083.5	6754.0
52.5°	7277.6	7307.0	7597.3	7969.9	8332.7	8548.4	8420.9	8007.1	7885.6	7473.7	7152.1
55°	6918.7	6948.1	7293.3	7836.5	8464.1	8781.8	8768.0	8407.2	8319.0	7871.8	7565.9
57.5°	6395.1	6459.8	6803.0	7389.4	8291.5	8968.1	9023.0	8772.0	8679.8	8262.1	7975.8
60°	5457.7	5544.0	5940.1	6701.1	7738.5	8905.3	9295.6	9079.9	9023.0	8624.9	8346.4
62.5°	3965.3	4028.1	4555.6	5553.8	6918.7	8458.2	9525.0	9397.6	9354.4	8950.4	8681.8
65°	2374.9	2518.0	2941.6	3928.1	5581.3	7614.9	9399.5	9813.3	9768.2	9285.8	8968.1
67.5°	1202.1	1266.9	1433.6	2129.7	3753.5	6301.0	8770.0	10072.2	10127.1	9572.1	9070.1
70°	745.2	762.9	809.9	1051.1	1874.8	4139.9	7171.7	9397.6	9666.2	9527.0	8805.3
72.5°	598.1	602.1	609.9	655.0	900.1	1935.6	4534.0	7360.0	7844.4	8897.5	8426.8
75°	496.2	498.1	500.1	513.8	560.9	790.3	2206.2	5057.7	5624.4	7562.0	7813.0
77.5°	398.1	388.3	396.1	402.0	413.8	441.2	760.9	2698.5	3273.1	4963.5	6042.1
80°	258.9	254.9	270.6	276.5	288.3	305.9	405.9	915.8	1111.9	1806.2	1921.9
82.5°	139.2	131.4	164.7	158.8	164.7	178.5	239.3	335.3	376.5	545.2	460.9
85°	43.1	43.1	45.1	52.9	64.7	62.8	103.9	164.7	182.4	233.4	172.6
87.5°	7.8	7.8	7.8	7.8	7.8	9.8	21.6	33.3	45.1	80.4	60.8
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: P640118
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2.5°	2890.6	2873.0	2882.8	2888.7	2886.7	2882.8	2863.2	2859.3	2849.5	2833.8	2829.9
5°	2976.9	2957.3	2959.3	2953.4	2933.8	2908.3	2865.2	2843.6	2825.9	2806.3	2804.4
7.5°	3112.3	3090.7	3084.8	3057.3	3002.4	2943.6	2875.0	2835.7	2806.3	2780.8	2776.9
10°	3284.8	3263.3	3243.6	3178.9	3088.7	3010.3	2920.1	2863.2	2820.1	2788.7	2782.8
12.5°	3477.0	3459.4	3410.3	3316.2	3208.3	3116.2	3024.0	2953.4	2890.6	2843.6	2837.7
15°	3690.8	3651.6	3577.0	3455.4	3353.5	3278.9	3167.2	3071.1	2971.1	2908.3	2894.6
17.5°	3839.8	3806.5	3718.2	3600.6	3520.2	3455.4	3324.1	3186.8	3051.5	2959.3	2939.7
20°	3945.7	3910.4	3810.4	3724.1	3698.6	3643.7	3490.7	3331.9	3175.0	3061.3	3035.8
22.5°	4022.2	3984.9	3883.0	3839.8	3875.1	3865.3	3716.3	3535.8	3349.5	3214.2	3182.9
25°	4094.8	4059.5	3969.3	3984.9	4079.1	4108.5	3947.7	3737.8	3526.0	3367.2	3329.9
27.5°	4163.4	4118.3	4077.1	4163.4	4296.8	4351.7	4181.0	3943.8	3714.3	3551.5	3522.1
30°	4269.3	4216.3	4210.5	4336.0	4547.8	4594.8	4406.6	4169.3	3941.8	3777.1	3739.8
32.5°	4402.7	4353.6	4357.5	4545.8	4790.9	4830.2	4669.4	4447.8	4220.3	4055.5	4004.5
35°	4583.1	4522.3	4555.6	4787.0	5034.1	5106.7	4977.3	4792.9	4571.3	4402.7	4345.8
37.5°	4832.1	4743.9	4812.5	5055.7	5304.8	5412.6	5312.6	5175.3	4955.7	4785.1	4732.1
40°	5149.8	5077.3	5104.7	5373.4	5630.3	5759.7	5697.0	5561.7	5344.0	5165.5	5104.7
42.5°	5526.4	5453.8	5444.0	5730.3	5987.2	6183.3	6122.5	5999.0	5773.5	5569.5	5510.7
45°	5895.0	5828.4	5842.1	6134.3	6422.6	6636.3	6575.5	6430.4	6185.3	5950.0	5902.9
47.5°	6279.4	6224.5	6236.3	6546.1	6863.8	7077.6	7001.1	6824.6	6538.3	6287.3	6230.4
50°	6673.6	6610.8	6628.5	6954.0	7297.2	7499.2	7381.6	7120.7	6805.0	6559.9	6510.8
52.5°	7065.8	6991.3	7036.4	7344.3	7699.2	7860.1	7642.4	7326.6	7020.7	6777.5	6722.6
55°	7516.9	7438.4	7389.4	7718.9	8069.9	8136.6	7838.5	7469.8	7107.0	6830.5	6797.1
57.5°	7928.7	7862.0	7769.8	8099.3	8358.2	8309.1	7989.5	7430.6	6897.2	6542.2	6495.1
60°	8297.4	8240.5	8160.1	8440.5	8558.2	8448.4	7867.9	6965.8	6379.4	6008.8	5987.2
62.5°	8636.6	8575.9	8501.3	8740.6	8724.9	8470.0	7314.9	6252.0	5467.5	5069.4	5034.1
65°	8905.3	8850.4	8828.8	9017.1	8991.6	8048.3	6454.0	5083.2	3994.7	3545.7	3531.9
67.5°	8981.8	8960.2	9075.9	9395.6	8997.5	7201.1	5061.6	3371.1	2145.4	1719.9	1694.4
70°	8695.5	8693.5	9024.9	9481.9	8181.7	5500.9	2986.7	1519.8	1078.6	957.0	941.3
72.5°	8322.9	8317.0	8579.8	8179.7	6067.6	3010.3	1257.1	813.9	674.6	641.3	641.3
75°	7711.0	7695.3	7893.4	6222.5	3412.3	1133.5	666.8	558.9	529.5	523.6	523.6
77.5°	6285.3	6153.9	5842.1	3845.7	1190.4	557.0	441.2	439.3	421.6	419.7	419.7
80°	2067.0	2067.0	2402.3	1466.9	525.6	343.2	311.8	327.5	309.9	298.1	296.1
82.5°	337.3	464.8	660.9	419.7	284.4	213.8	192.2	204.0	213.8	170.6	170.6
85°	133.4	174.5	254.9	196.1	131.4	86.3	92.2	102.0	90.2	78.4	76.5
87.5°	51.0	62.8	90.2	47.1	27.5	15.7	9.8	9.8	7.8	7.8	7.8
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)