

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: P633746

Luminaire Tested: GWS-SA2F-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15677.4 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 124.5
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

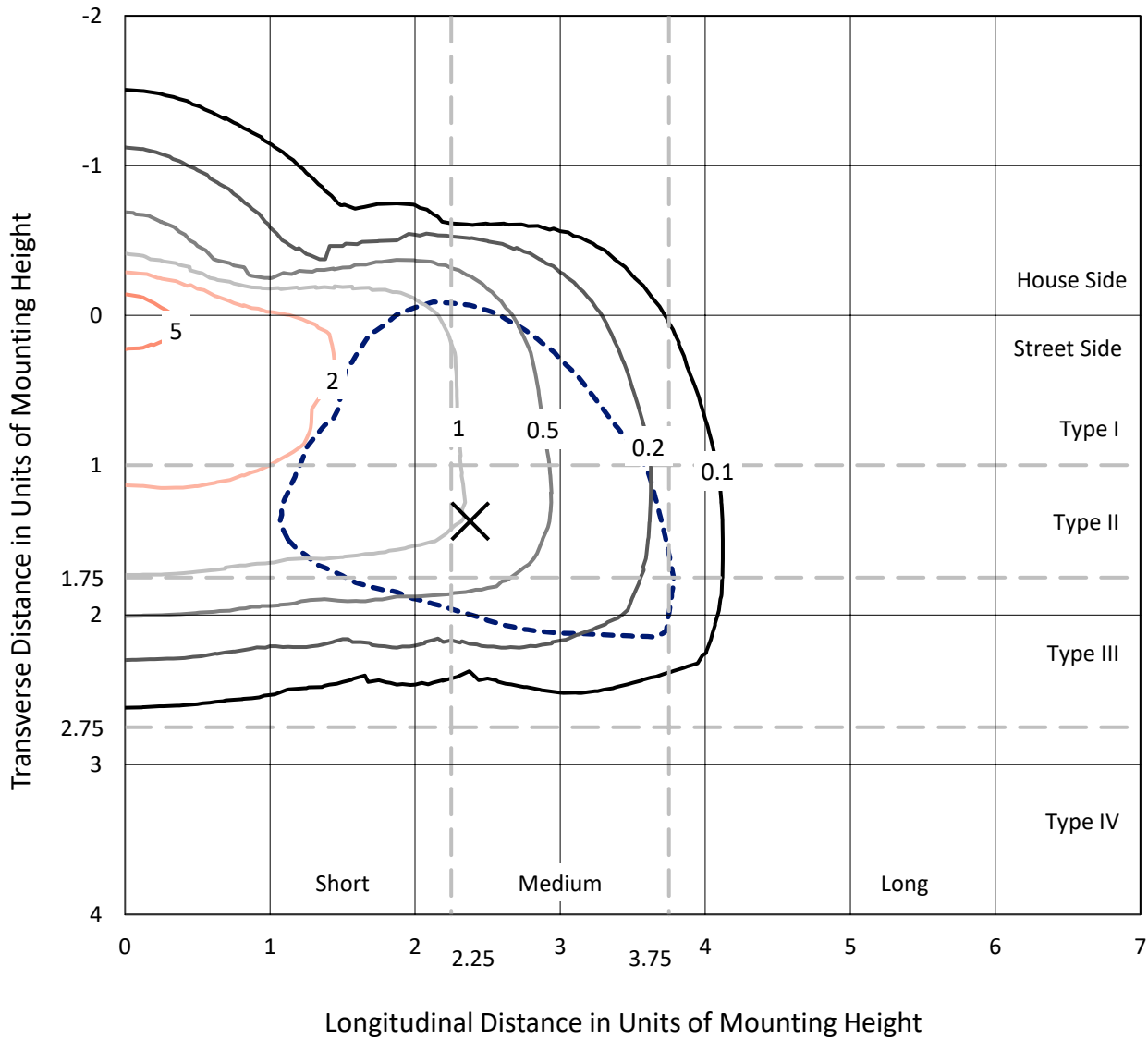


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Iso-Footcandle Lines of Horizontal Illumination

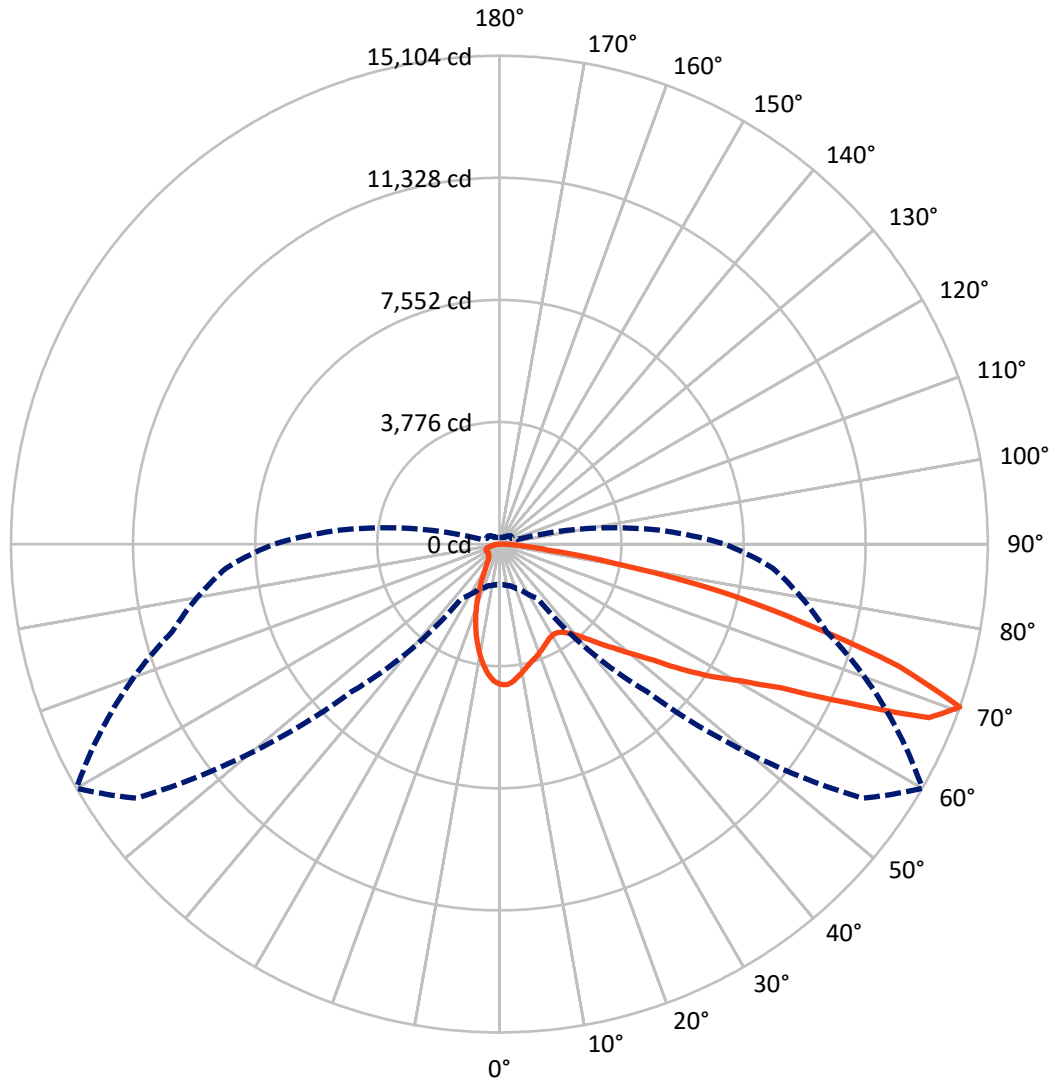
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2681.2	0.0	2681.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12996.2	0.0	12996.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	15677.4	0.0	15677.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	2.4
10°-20°	837.7	5.3
20°-30°	1072.8	6.8
30°-40°	1410.0	9.0
40°-50°	2045.7	13.0
50°-60°	3191.7	20.4
60°-70°	4178.6	26.7
70°-80°	2310.6	14.7
80°-90°	256.4	1.6
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°	15677.4	100.0
0°-180°	15677.4	100.0

Coefficient of Utilization



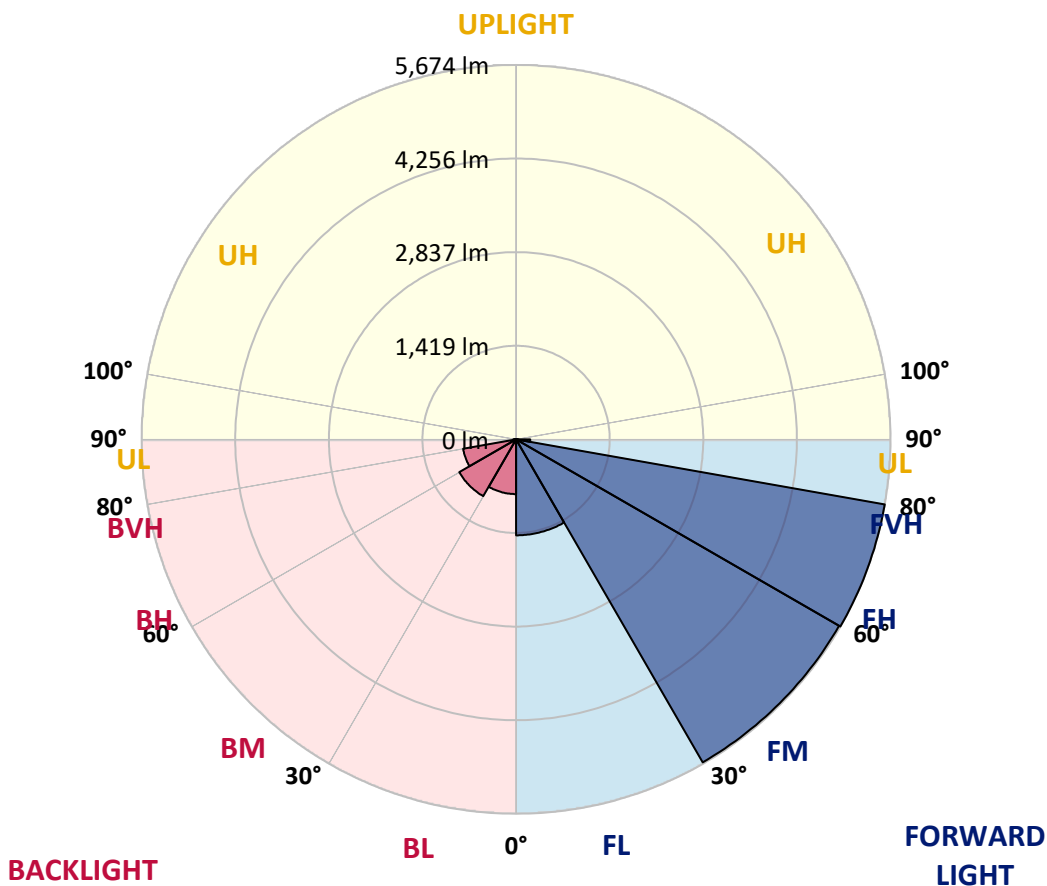
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.0	9.3			
FM (30°-60°)	5653.2	36.1			
FH (60°-80°)	5674.4	36.2			G3/7500
FVH (80°-90°)	213.7	1.4			G2/225
BL (0°-30°)	829.5	5.3	B2/1000		
BM (30°-60°)	994.1	6.3	B1/1000		
BH (60°-80°)	814.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	42.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1
2.5°	4277.3	4281.9	4294.6	4312.9	4331.3	4340.4	4363.4	4356.5	4351.9	4342.7	4331.3
5°	4088.1	4097.3	4108.7	4144.3	4184.4	4216.6	4268.2	4273.9	4276.2	4280.8	4262.4
7.5°	3847.2	3849.5	3877.0	3924.1	3976.8	4031.9	4117.9	4142.0	4162.6	4185.6	4170.7
10°	3581.1	3586.8	3607.5	3675.1	3765.8	3847.2	3963.1	4003.2	4046.8	4097.3	4076.6
12.5°	3363.1	3364.3	3397.6	3469.8	3568.5	3678.6	3823.1	3871.3	3928.6	4007.8	3989.4
15°	3189.9	3189.9	3220.9	3282.9	3396.4	3526.0	3698.1	3760.0	3838.0	3944.7	3912.6
17.5°	3052.3	3053.4	3072.9	3138.3	3239.3	3382.6	3586.8	3670.6	3756.6	3897.7	3849.5
20°	2980.0	2974.3	2977.7	3017.9	3103.9	3242.7	3475.6	3573.1	3688.9	3865.6	3792.1
22.5°	2976.6	2966.3	2951.4	2954.8	3005.3	3120.0	3356.3	3474.4	3620.1	3839.2	3733.6
25°	3035.1	3023.6	2997.2	2967.4	2962.8	3031.7	3243.9	3378.1	3549.0	3827.7	3677.4
27.5°	3133.7	3125.7	3091.3	3046.6	2999.5	2997.2	3159.0	3298.9	3497.4	3839.2	3637.3
30°	3264.5	3250.7	3228.9	3171.6	3100.5	3027.1	3125.7	3256.5	3462.9	3875.9	3620.1
32.5°	3412.5	3404.4	3383.8	3326.4	3250.7	3133.7	3152.1	3265.6	3462.9	3940.1	3623.5
35°	3569.6	3568.5	3568.5	3530.6	3446.9	3301.2	3256.5	3343.6	3515.7	4043.3	3660.2
37.5°	3722.2	3721.0	3757.7	3771.5	3676.3	3519.1	3434.3	3499.6	3631.6	4195.9	3750.9
40°	3846.1	3850.6	3930.9	3999.8	3947.0	3801.3	3682.0	3715.3	3819.7	4412.7	3909.1
42.5°	3971.1	3983.7	4104.1	4225.7	4246.4	4120.2	3999.8	4019.3	4089.2	4699.5	4145.4
45°	4107.6	4113.3	4281.9	4451.7	4551.5	4476.9	4378.3	4404.7	4420.7	5053.9	4497.6
47.5°	4239.5	4254.4	4472.3	4705.2	4894.5	4887.6	4832.5	4824.5	4827.9	5485.2	4914.0
50°	4419.6	4441.4	4697.2	4978.2	5255.8	5383.1	5399.2	5338.4	5313.1	5964.7	5432.4
52.5°	4761.4	4761.4	4990.8	5267.2	5640.0	5955.5	6063.3	5963.5	5883.2	6471.7	5983.0
55°	5189.2	5207.6	5390.0	5613.7	6086.2	6557.7	6922.4	6812.3	6585.2	7023.4	6560.0
57.5°	5379.7	5402.6	5691.7	6039.2	6670.1	7242.5	7748.3	7709.3	7377.8	7596.9	7158.7
60°	5035.5	5083.7	5481.7	6064.4	7198.9	8347.1	8703.8	8590.3	8116.5	8199.1	7808.0
62.5°	4200.5	4253.3	4694.9	5508.1	7125.5	9541.2	10209.9	9791.2	9038.7	8959.6	8672.8
65°	2506.3	2504.0	3035.1	4113.3	6220.4	9872.7	12593.5	11812.3	10463.4	10003.4	9562.9
67.5°	1593.3	1589.8	1701.1	2179.4	4139.7	9060.5	14125.9	14328.9	12398.5	10770.8	9636.4
70°	1257.2	1256.0	1336.3	1554.3	2047.5	6447.6	13699.2	15104.3	13567.3	10478.3	8484.7
72.5°	916.5	918.8	1042.7	1301.9	1579.5	3237.0	11093.1	12923.8	12478.7	9249.8	6888.0
75°	658.4	661.8	736.4	996.8	1456.8	1769.9	7376.7	9717.8	9494.1	7414.5	4738.5
77.5°	418.7	423.3	488.6	698.6	1176.9	1429.2	4472.3	6860.5	6316.8	4177.6	1685.0
80°	255.8	270.7	325.8	520.8	940.6	1072.5	2235.6	3614.4	3163.6	1145.9	566.6
82.5°	131.9	143.4	196.1	322.3	648.1	941.7	1265.2	1518.7	979.6	479.5	301.7
85°	41.3	48.2	68.8	130.8	308.6	583.8	837.3	754.8	449.6	226.0	139.9
87.5°	10.3	10.3	11.5	11.5	12.6	26.4	161.7	170.9	119.3	71.1	57.4
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°	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1	4338.1
2.5°	4308.3	4280.8	4269.3	4268.2	4239.5	4198.2	4170.7	4151.2	4139.7	4137.4	4137.4
5°	4231.5	4195.9	4148.9	4113.3	4036.5	3958.5	3893.1	3856.4	3813.9	3808.2	3807.1
7.5°	4129.4	4077.8	3988.3	3888.5	3754.3	3624.7	3514.6	3440.0	3365.4	3351.7	3347.1
10°	4019.3	3949.3	3796.7	3621.2	3420.5	3226.6	3058.0	2926.1	2838.9	2777.0	2765.5
12.5°	3910.3	3817.4	3593.7	3332.2	3056.9	2791.9	2538.4	2322.8	2166.8	2076.2	2060.1
15°	3808.2	3678.6	3372.3	3038.5	2680.7	2318.2	1959.2	1679.3	1460.2	1382.2	1363.8
17.5°	3715.3	3553.6	3157.8	2734.6	2288.4	1814.6	1406.3	1157.4	1028.9	989.9	980.7
20°	3622.4	3425.1	2939.9	2414.5	1872.0	1340.9	1027.8	910.8	862.6	847.7	843.1
22.5°	3522.6	3284.0	2702.4	2099.1	1451.0	1003.7	840.8	789.2	774.3	775.4	774.3
25°	3422.8	3140.6	2453.5	1756.1	1080.5	814.4	734.1	714.6	718.1	728.4	730.7
27.5°	3340.2	3013.3	2209.2	1379.9	844.2	700.8	663.0	661.8	674.5	688.2	690.5
30°	3280.6	2899.7	1968.3	1061.0	695.1	622.8	607.9	614.8	629.7	640.1	643.5
32.5°	3238.1	2802.2	1711.4	833.9	609.1	567.8	560.9	567.8	577.0	587.3	589.6
35°	3223.2	2731.1	1459.0	680.2	550.6	527.6	523.1	526.5	531.1	536.8	539.1
37.5°	3256.5	2695.6	1195.2	591.9	515.0	501.3	494.4	492.1	493.2	495.5	496.7
40°	3355.1	2711.6	979.6	540.3	492.1	479.5	468.0	463.4	462.3	464.6	463.4
42.5°	3524.9	2779.3	823.6	510.4	473.7	455.4	442.8	438.2	438.2	443.9	443.9
45°	3773.8	2912.4	711.2	488.6	457.7	434.7	421.0	418.7	423.3	432.4	433.6
47.5°	4138.6	3107.4	643.5	472.6	442.8	416.4	402.6	401.5	410.6	425.6	426.7
50°	4571.0	3388.4	606.8	461.1	432.4	401.5	387.7	388.8	399.2	415.2	418.7
52.5°	5091.8	3771.5	609.1	456.5	426.7	392.3	378.5	376.2	386.6	402.6	406.1
55°	5629.7	4237.2	653.8	457.7	418.7	387.7	369.3	361.3	370.5	382.0	383.1
57.5°	6221.6	4762.5	765.1	455.4	408.3	383.1	361.3	343.0	348.7	355.6	359.0
60°	6889.2	5380.8	1004.8	460.0	403.8	372.8	345.3	321.2	320.0	324.6	325.8
62.5°	7781.6	6221.6	1274.4	468.0	414.1	360.2	321.2	295.9	291.4	293.6	294.8
65°	8464.1	6623.1	1189.5	461.1	435.9	351.0	298.2	271.9	262.7	260.4	260.4
67.5°	8186.5	6092.0	828.2	442.8	446.2	352.1	279.9	246.6	235.1	229.4	228.3
70°	6966.0	4948.4	575.8	424.4	434.7	349.8	260.4	226.0	211.1	203.0	201.9
72.5°	5503.5	3778.4	465.7	387.7	394.6	315.4	231.7	203.0	190.4	180.1	180.1
75°	3542.1	2305.6	388.8	345.3	322.3	245.5	200.7	181.2	168.6	158.3	158.3
77.5°	1191.8	855.7	301.7	292.5	240.9	184.7	168.6	156.0	145.7	136.5	135.4
80°	484.1	406.1	221.4	221.4	168.6	141.1	131.9	126.2	119.3	107.8	107.8
82.5°	281.0	246.6	154.9	134.2	112.4	97.5	91.8	86.0	86.0	78.0	78.0
85°	135.4	136.5	92.9	82.6	64.2	56.2	53.9	50.5	49.3	44.7	43.6
87.5°	73.4	74.6	47.0	36.7	25.2	21.8	18.4	17.2	16.1	14.9	14.9
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)