

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: P639798

Luminaire Tested: GWS-SA5C-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639798
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-SA5C-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23393.4 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

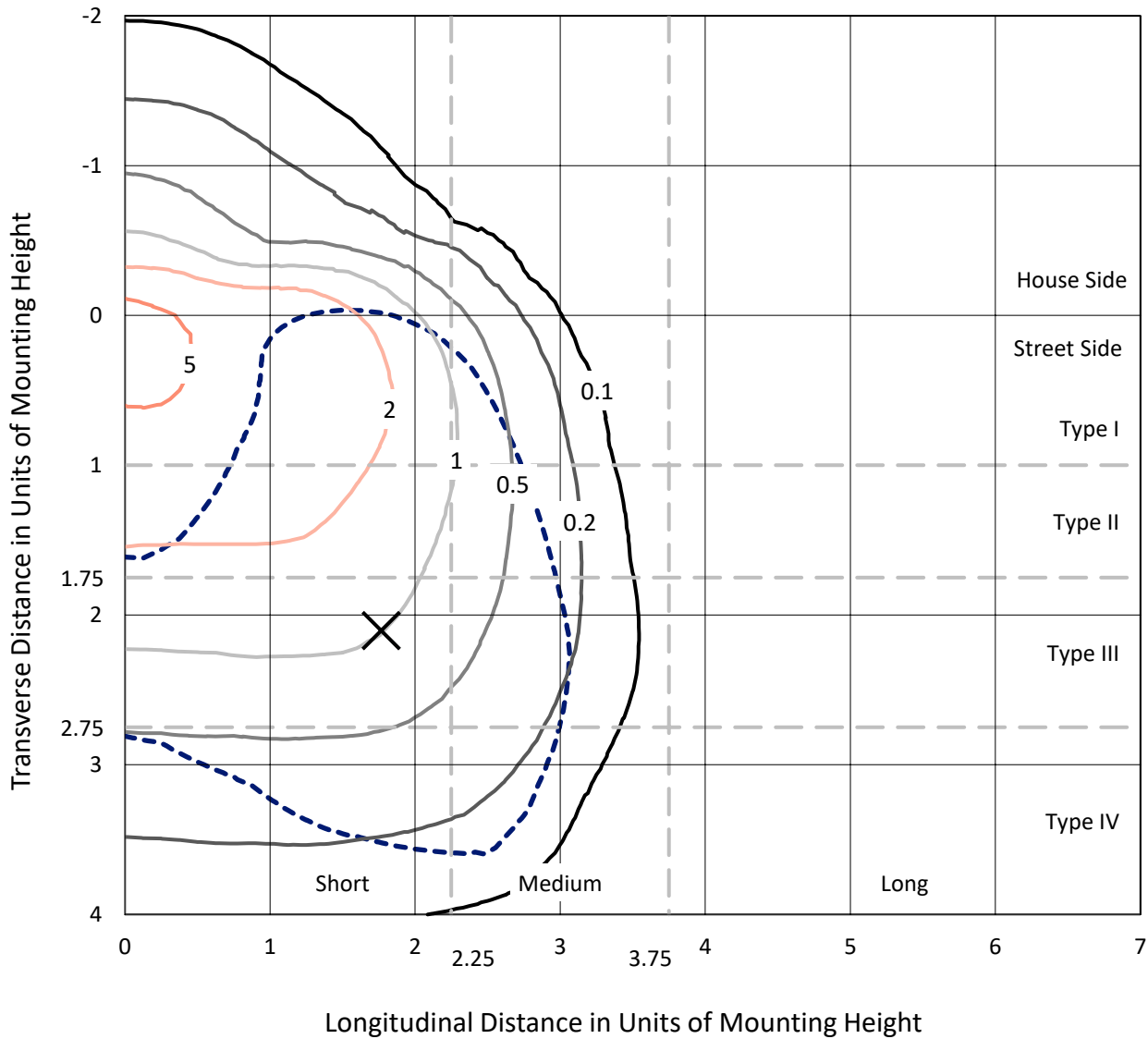
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

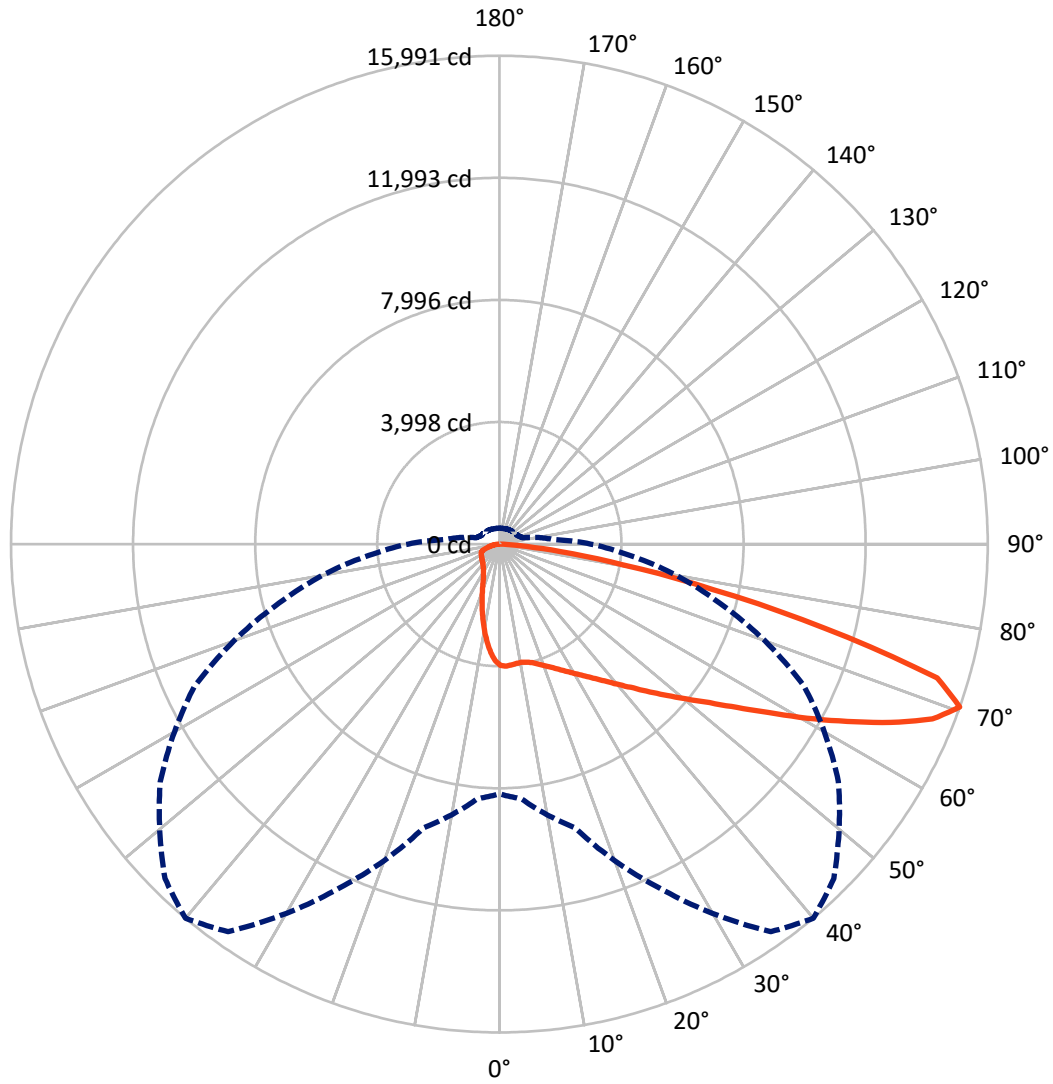
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3603.2	0.0	3603.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	19790.2	0.0	19790.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	23393.4	0.0	23393.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.9	1.5
10°-20°	914.7	3.9
20°-30°	1436.3	6.1
30°-40°	2159.5	9.2
40°-50°	3333.3	14.2
50°-60°	4950.2	21.2
60°-70°	6239.6	26.7
70°-80°	3608.3	15.4
80°-90°	400.5	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°	23393.4	100.0
0°-180°	23393.4	100.0

Coefficient of Utilization



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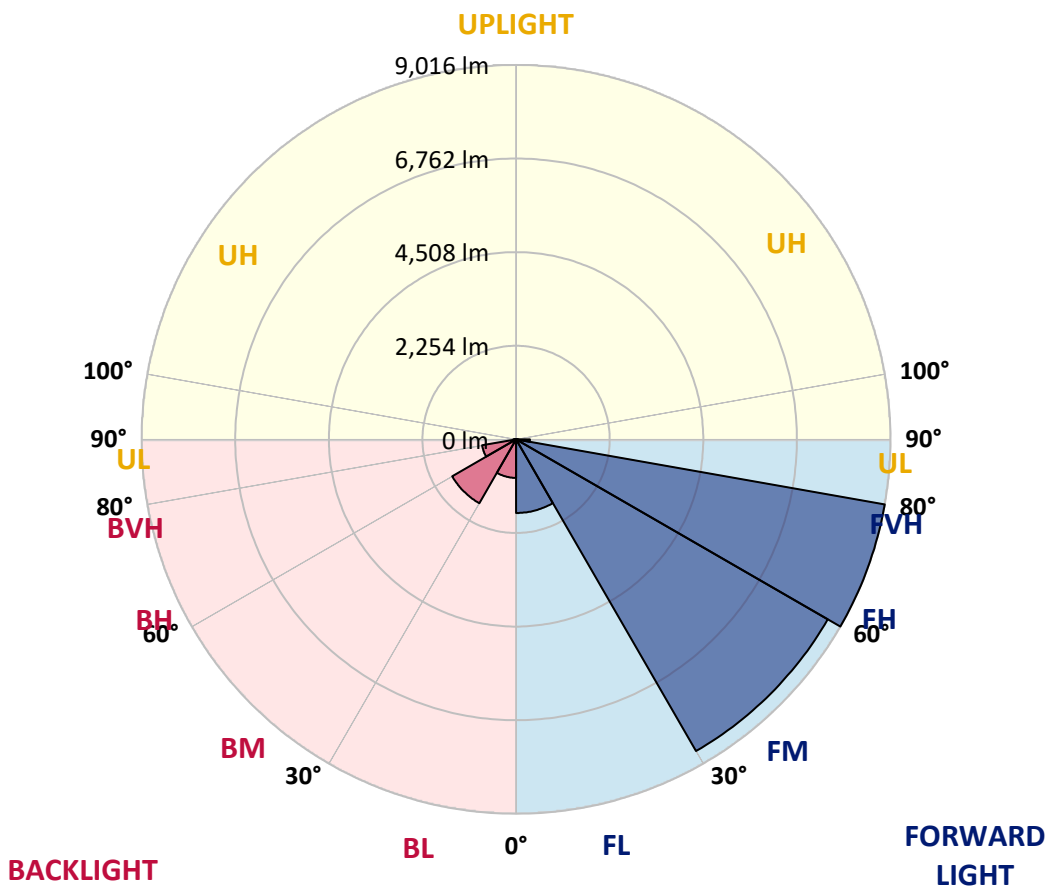
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1773.4	7.6			
FM (30°-60°)	8667.0	37.0			
FH (60°-80°)	9016.4	38.5			G4/12000
FVH (80°-90°)	333.5	1.4			G3/500
BL (0°-30°)	928.6	4.0	B2/1000		
BM (30°-60°)	1776.0	7.6	B2/2500		
BH (60°-80°)	831.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	66.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5
2.5°	3996.9	4003.9	4009.1	4016.1	4012.6	4002.2	4010.9	4010.9	3991.7	3970.7	3951.5
5°	4002.2	4010.9	4009.1	4007.4	3993.4	3976.0	3976.0	3965.5	3932.3	3899.1	3867.7
7.5°	3991.7	3989.9	3988.2	3982.9	3967.2	3948.0	3944.5	3923.6	3879.9	3834.5	3789.1
10°	3944.5	3942.8	3948.0	3960.2	3956.8	3939.3	3939.3	3920.1	3869.4	3813.6	3754.2
12.5°	3906.1	3906.1	3927.1	3960.2	3972.5	3965.5	3967.2	3953.3	3895.6	3829.3	3759.4
15°	3911.4	3913.1	3958.5	4012.6	4035.3	4030.1	4031.8	4016.1	3951.5	3885.2	3790.9
17.5°	3946.3	3955.0	4033.6	4108.7	4138.4	4131.4	4119.1	4093.0	4019.6	3944.5	3829.3
20°	4019.6	4033.6	4134.9	4229.2	4264.1	4248.4	4227.4	4175.0	4094.7	4012.6	3871.2
22.5°	4164.5	4173.3	4285.0	4377.6	4405.5	4386.3	4344.4	4269.3	4176.8	4091.2	3921.8
25°	4368.8	4379.3	4485.8	4571.4	4564.4	4541.7	4484.1	4391.5	4281.5	4190.7	3995.2
27.5°	4611.6	4629.0	4733.8	4801.9	4756.5	4723.3	4658.7	4546.9	4423.0	4340.9	4106.9
30°	4877.0	4884.0	4973.0	5041.1	4971.3	4925.9	4847.3	4726.8	4615.0	4553.9	4274.5
32.5°	5133.7	5140.6	5217.5	5255.9	5182.5	5149.4	5081.3	4953.8	4875.2	4842.0	4524.2
35°	5404.3	5402.6	5465.4	5498.6	5423.5	5409.5	5339.7	5241.9	5227.9	5271.6	4889.2
37.5°	5675.0	5659.2	5692.4	5736.1	5694.2	5708.1	5662.7	5629.6	5683.7	5797.2	5374.6
40°	5891.5	5891.5	5926.4	5980.5	5994.5	6055.6	6029.4	6073.1	6247.7	6518.3	5975.3
42.5°	6083.6	6085.3	6158.6	6242.4	6343.7	6438.0	6459.0	6572.5	6933.9	7358.2	6729.6
45°	6284.4	6286.1	6385.6	6507.9	6722.6	6902.5	6944.4	7199.3	7716.2	8233.0	7548.6
47.5°	6516.6	6497.4	6635.3	6839.6	7145.2	7403.6	7511.9	7873.3	8526.4	9162.0	8320.4
50°	6778.5	6738.4	6892.0	7244.7	7621.9	7976.4	8158.0	8571.8	9396.0	10019.3	9046.7
52.5°	7073.6	7050.9	7211.6	7641.1	8217.3	8625.9	8872.1	9415.2	10241.1	10873.2	9623.0
55°	7440.3	7386.2	7618.4	8164.9	8915.8	9436.1	9727.7	10249.8	11164.8	11648.5	10063.0
57.5°	7841.9	7782.5	8093.4	8819.8	9823.8	10394.8	10759.7	11189.3	12034.4	12242.2	10321.4
60°	8275.0	8255.7	8624.2	9588.1	10906.4	11569.9	11833.6	12223.0	12790.5	12586.2	10256.8
62.5°	8671.3	8664.3	9200.4	10421.0	12053.6	12783.5	12993.0	13096.0	13335.3	12563.5	9743.5
65°	9088.7	9148.0	9872.7	11386.6	13368.4	14084.4	14171.7	13909.7	13518.6	11968.0	8692.3
67.5°	9141.0	9256.3	10295.2	12291.1	14615.2	15290.9	15221.1	14218.8	12977.3	10311.0	6813.4
70°	8175.4	8376.2	9621.2	12429.0	15493.5	15991.1	15486.5	13553.5	11012.9	7470.0	4285.0
72.5°	6830.9	7003.8	8103.8	10599.1	14360.3	14994.1	14311.4	11472.1	7782.5	4285.0	2182.7
75°	5317.0	5517.8	6532.3	8425.1	10751.0	11004.2	10661.9	8000.8	4278.0	1767.1	991.8
77.5°	3244.3	3389.3	4178.5	5708.1	7522.4	7143.5	6053.9	4485.8	1877.1	846.9	612.9
80°	1435.3	1524.4	2058.7	3066.2	4346.1	4108.7	3239.1	1915.5	1026.7	537.8	427.8
82.5°	770.0	827.7	1014.5	1213.6	1908.5	1995.8	1618.7	1103.6	551.8	307.3	244.5
85°	338.8	371.9	461.0	440.0	626.9	616.4	621.6	757.8	263.7	141.4	158.9
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	19.2	101.3	26.2	41.9	36.7
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°	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5
2.5°	3930.6	3899.1	3890.4	3879.9	3860.7	3827.5	3803.1	3775.2	3762.9	3749.0	3750.7
5°	3832.8	3794.4	3757.7	3710.5	3651.2	3584.8	3539.4	3487.0	3459.1	3432.9	3439.9
7.5°	3749.0	3689.6	3614.5	3515.0	3408.5	3289.7	3193.7	3118.6	3068.0	3033.0	3050.5
10°	3696.6	3626.7	3495.8	3333.4	3153.5	2971.9	2834.0	2704.8	2624.4	2561.6	2558.1
12.5°	3686.1	3595.3	3405.0	3169.2	2909.1	2666.4	2463.8	2289.2	2182.7	2104.1	2133.8
15°	3696.6	3581.3	3326.4	3017.3	2689.1	2360.8	2109.3	1908.5	1781.1	1709.5	1704.2
17.5°	3708.8	3567.4	3237.3	2853.2	2458.6	2083.1	1791.5	1578.5	1447.5	1376.0	1377.7
20°	3719.3	3546.4	3132.6	2673.3	2224.6	1824.7	1522.6	1320.1	1203.1	1150.7	1159.4
22.5°	3736.7	3525.5	3020.8	2481.3	1985.4	1575.0	1309.6	1145.5	1075.6	1040.7	1042.4
25°	3769.9	3513.2	2905.6	2271.7	1749.6	1376.0	1162.9	1052.9	1009.3	988.3	986.6
27.5°	3838.0	3523.7	2785.1	2069.2	1536.6	1224.0	1068.6	997.0	967.4	953.4	951.6
30°	3951.5	3565.6	2680.3	1863.1	1353.3	1105.3	1004.0	960.4	942.9	930.7	928.9
32.5°	4124.4	3644.2	2566.8	1671.1	1204.8	1018.0	953.4	930.7	918.5	911.5	911.5
35°	4386.3	3787.4	2455.1	1503.4	1089.6	949.9	913.2	904.5	894.0	890.5	894.0
37.5°	4763.5	4016.1	2353.8	1356.8	1007.5	897.5	869.6	873.1	864.3	869.6	874.8
40°	5241.9	4321.7	2268.2	1236.3	946.4	859.1	831.2	843.4	838.1	843.4	852.1
42.5°	5847.8	4700.6	2203.6	1142.0	902.8	827.7	801.5	813.7	810.2	817.2	825.9
45°	6523.6	5200.0	2173.9	1075.6	871.3	805.0	777.0	785.8	782.3	787.5	796.2
47.5°	7171.4	5654.0	2200.1	1037.2	845.1	785.8	756.1	759.6	757.8	756.1	761.3
50°	7730.2	6015.5	2275.2	1025.0	827.7	766.6	738.6	740.4	735.1	724.6	728.1
52.5°	8185.9	6305.3	2320.6	1025.0	818.9	745.6	719.4	721.2	710.7	696.7	698.5
55°	8486.2	6422.3	2284.0	1023.2	815.4	728.1	700.2	701.9	691.5	674.0	675.8
57.5°	8571.8	6308.8	2130.3	1004.0	812.0	714.2	681.0	684.5	677.5	658.3	658.3
60°	8332.6	5893.2	1849.2	960.4	803.2	705.4	667.0	672.3	668.8	649.6	649.6
62.5°	7705.7	5154.6	1513.9	894.0	778.8	695.0	654.8	665.3	674.0	663.5	661.8
65°	6532.3	4129.6	1231.0	820.7	747.3	677.5	637.3	663.5	682.7	696.7	696.7
67.5°	4901.4	2956.2	1004.0	743.9	700.2	642.6	614.6	639.1	653.1	661.8	667.0
70°	2987.6	1739.2	791.0	654.8	632.1	590.2	569.2	544.8	525.6	522.1	523.8
72.5°	1461.5	995.3	642.6	557.0	539.6	501.1	454.0	443.5	434.8	429.6	427.8
75°	805.0	693.2	530.8	462.7	431.3	384.2	373.7	356.2	352.7	345.7	347.5
77.5°	569.2	546.5	438.3	375.4	328.3	303.8	309.1	296.8	296.8	291.6	289.9
80°	427.8	429.6	337.0	274.1	242.7	234.0	239.2	239.2	235.7	234.0	232.2
82.5°	270.7	305.6	227.0	176.4	172.9	174.6	172.9	171.1	174.6	169.4	167.6
85°	186.8	220.0	137.9	104.8	104.8	103.0	106.5	104.8	108.3	103.0	103.0
87.5°	41.9	97.8	50.6	31.4	33.2	31.4	33.2	34.9	38.4	40.2	40.2
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)