

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: P642758

Luminaire Tested: GWS-SA6D-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642758
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-SA6D-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37720.8 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 245.7
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

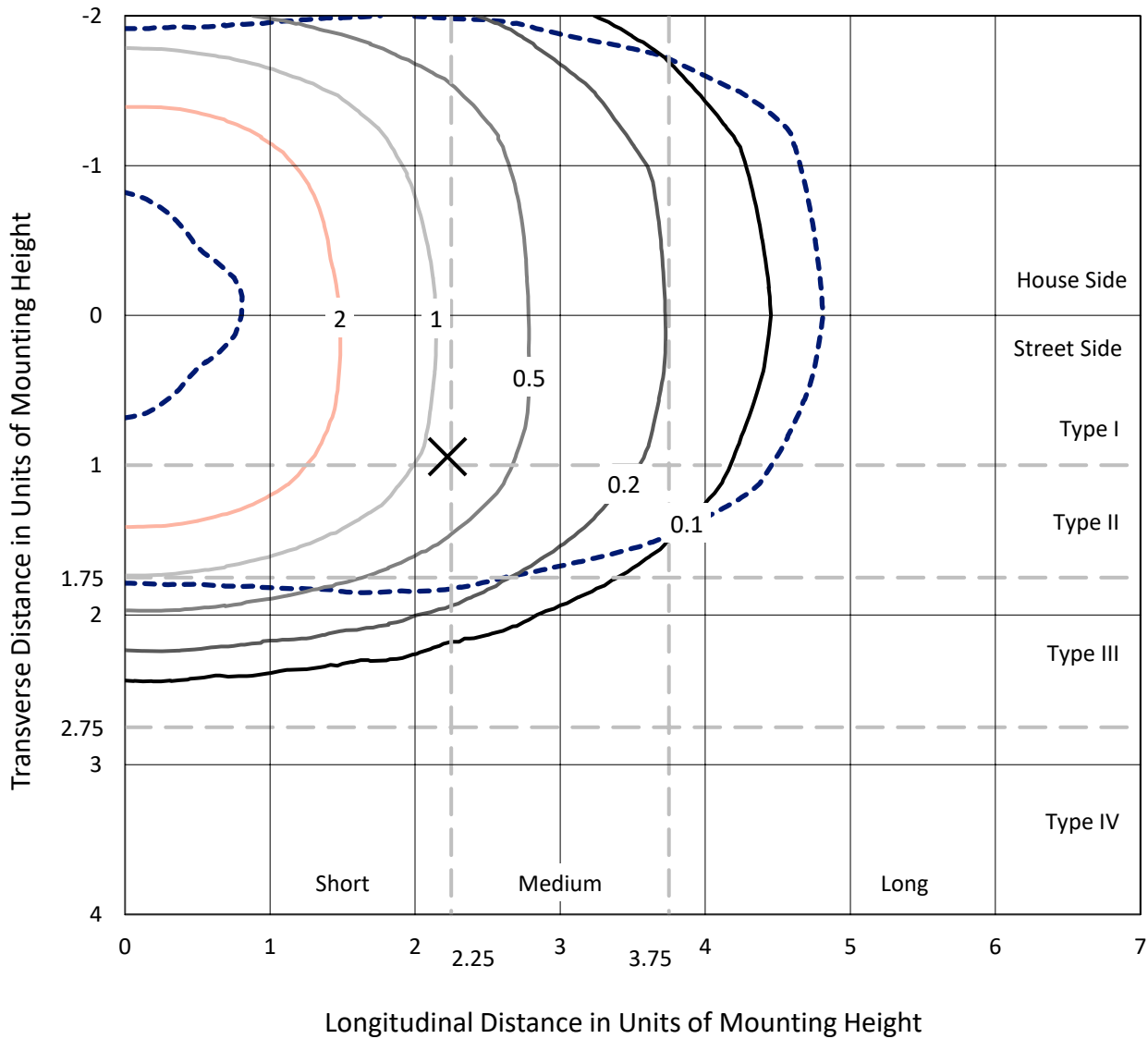


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Iso-Footcandle Lines of Horizontal Illumination

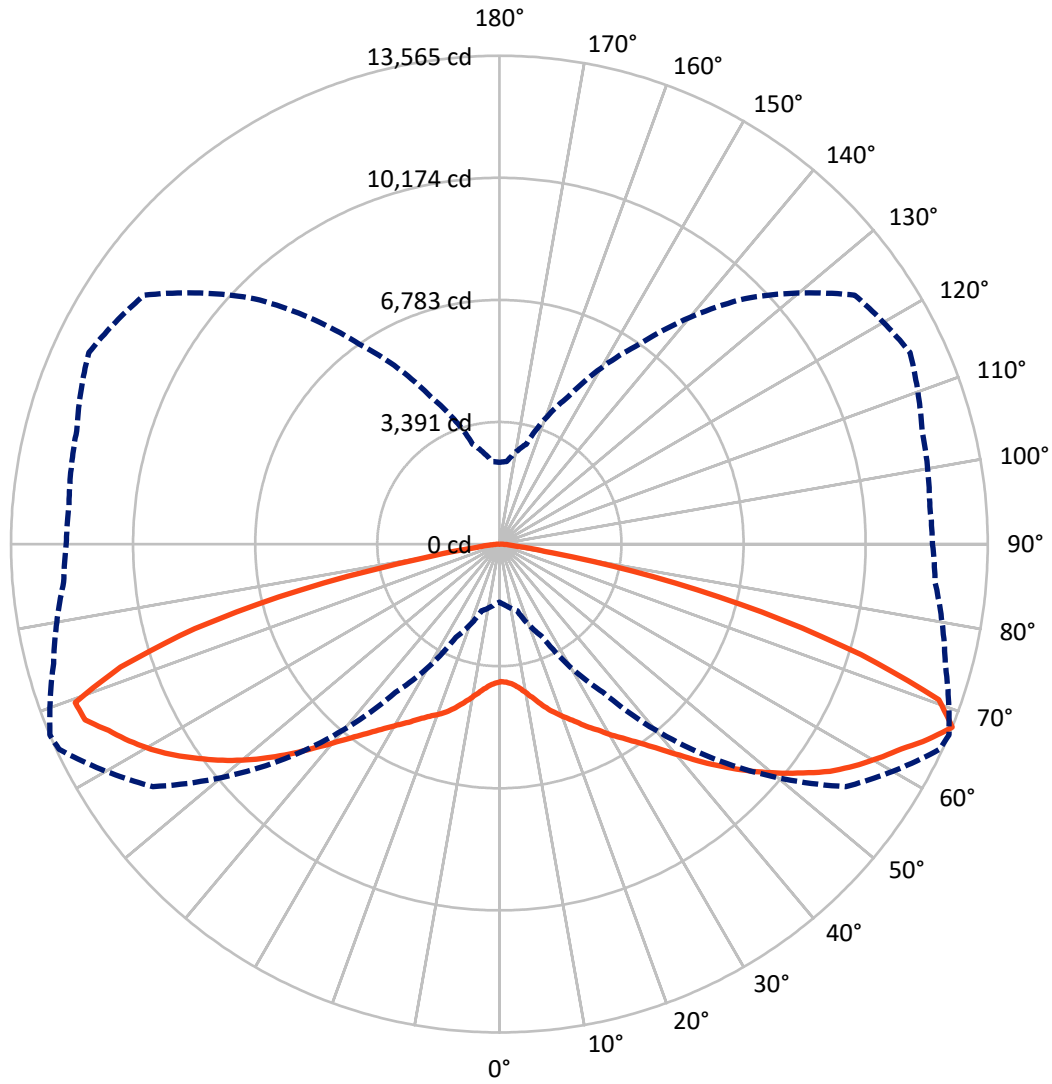
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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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	18652.3	0.0	18652.3
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	19068.6	0.0	19068.6
	% Fixture	50.6	0.0	50.6
Total	Lumens	37720.8	0.0	37720.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.7	1.0
10°-20°	1266.0	3.4
20°-30°	2483.9	6.6
30°-40°	4231.7	11.2
40°-50°	6795.3	18.0
50°-60°	9233.4	24.5
60°-70°	8832.3	23.4
70°-80°	4199.2	11.1
80°-90°	304.3	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°	37720.8	100.0
0°-180°	37720.8	100.0

Coefficient of Utilization



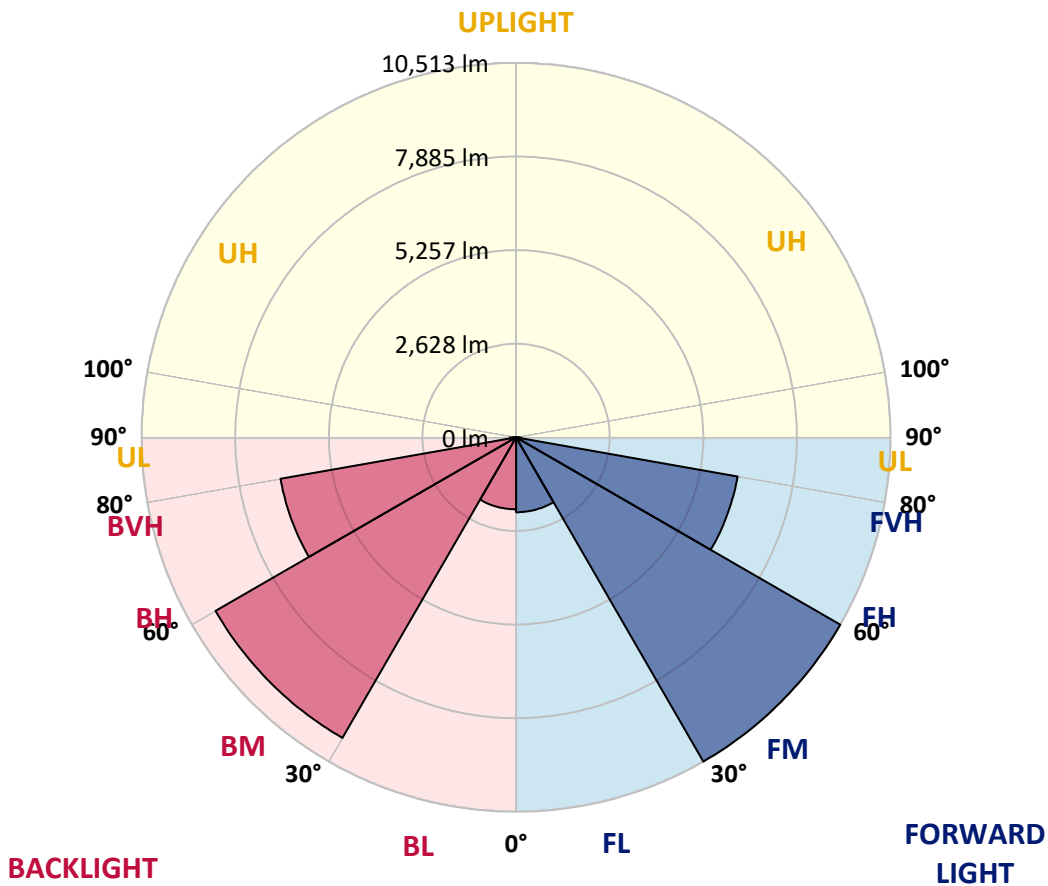
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2103.2	5.6			
FM (30°-60°)	10513.1	27.9			
FH (60°-80°)	6315.4	16.7			G3/7500
FVH (80°-90°)	136.8	0.4			G2/225
BL (0°-30°)	2021.4	5.4	B3/2500		
BM (30°-60°)	9747.2	25.8	B5		
BH (60°-80°)	6716.1	17.8	B5		G5
BVH (80°-90°)	167.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4
2.5°	3740.6	3745.9	3753.8	3769.5	3785.3	3808.9	3832.6	3829.9	3840.5	3848.3	3856.2
5°	3719.6	3724.9	3738.0	3759.0	3782.7	3822.1	3872.0	3893.0	3908.8	3937.6	3963.9
7.5°	3764.3	3774.8	3793.2	3822.1	3858.8	3908.8	3977.1	4013.8	4037.5	4090.0	4134.7
10°	3824.7	3837.8	3874.6	3929.8	3984.9	4061.1	4147.8	4203.0	4218.7	4287.0	4371.1
12.5°	3882.5	3898.2	3958.7	4058.5	4158.3	4260.8	4363.2	4431.5	4436.8	4528.7	4623.3
15°	3974.4	3987.6	4069.0	4197.7	4350.1	4491.9	4618.0	4665.3	4686.3	4752.0	4870.2
17.5°	4176.7	4192.5	4297.5	4436.8	4597.0	4746.7	4872.8	4912.2	4912.2	4967.4	5064.6
20°	4394.7	4410.5	4549.7	4728.3	4922.7	5075.1	5172.3	5135.5	5122.4	5138.1	5206.4
22.5°	4639.0	4667.9	4801.9	5009.4	5248.4	5435.0	5484.9	5374.5	5337.8	5301.0	5316.7
25°	4951.6	4985.8	5117.1	5337.8	5571.6	5768.6	5797.5	5626.7	5605.7	5477.0	5429.7
27.5°	5311.5	5337.8	5500.6	5718.7	5936.7	6102.2	6133.7	5923.5	5852.6	5674.0	5563.7
30°	5776.4	5800.1	5941.9	6157.3	6346.5	6462.1	6501.5	6212.5	6157.3	5884.1	5713.4
32.5°	6283.4	6293.9	6438.4	6645.9	6814.1	6924.4	6869.2	6533.0	6451.5	6144.2	5910.4
35°	6864.0	6864.0	7050.5	7218.6	7352.6	7384.1	7279.0	6895.5	6800.9	6467.3	6175.7
37.5°	7434.0	7449.7	7623.1	7822.8	7941.0	7935.7	7744.0	7323.7	7216.0	6853.5	6530.4
40°	8051.3	8085.4	8258.8	8482.1	8595.1	8579.3	8285.1	7817.5	7707.2	7279.0	6963.8
42.5°	8618.7	8673.9	8876.1	9104.7	9228.1	9217.6	8910.3	8384.9	8277.2	7793.9	7478.6
45°	9070.5	9128.3	9380.5	9698.3	9895.3	9877.0	9567.0	8973.3	8842.0	8335.0	7988.3
47.5°	9467.2	9527.6	9808.7	10144.9	10457.5	10489.0	10205.3	9567.0	9427.8	8915.5	8524.1
50°	9771.9	9800.8	10116.0	10483.8	10846.3	11022.3	10775.3	10163.3	9995.2	9488.2	9046.9
52.5°	9748.2	9787.6	10176.4	10675.5	11161.5	11450.4	11279.7	10725.4	10562.6	10010.9	9580.1
55°	9267.5	9306.9	9769.3	10496.9	11337.5	11763.0	11744.7	11261.3	11143.1	10544.2	10134.4
57.5°	8566.2	8652.8	9112.5	9898.0	11106.3	12012.6	12086.1	11749.9	11626.4	11066.9	10683.4
60°	7310.5	7426.1	7956.7	8975.9	10365.6	11928.5	12451.3	12162.3	12086.1	11552.9	11179.9
62.5°	5311.5	5395.6	6102.2	7439.2	9267.5	11329.6	12758.6	12587.9	12530.1	11988.9	11629.1
65°	3181.1	3372.9	3940.3	5261.6	7476.0	10200.1	12590.5	13144.8	13084.3	12438.1	12012.6
67.5°	1610.3	1696.9	1920.2	2852.8	5027.8	8440.1	11747.3	13491.5	13565.1	12821.7	12149.2
70°	998.2	1021.8	1084.9	1408.0	2511.3	5545.3	9606.4	12587.9	12947.7	12761.2	11794.6
72.5°	801.2	806.4	817.0	877.4	1205.7	2592.7	6073.3	9858.6	10507.4	11918.0	11287.6
75°	664.6	667.2	669.8	688.2	751.3	1058.6	2955.2	6774.6	7533.8	10129.1	10465.4
77.5°	533.3	520.1	530.6	538.5	554.3	591.0	1019.2	3614.5	4384.2	6648.6	8093.3
80°	346.7	341.5	362.5	370.4	386.1	409.8	543.8	1226.7	1489.4	2419.3	2574.3
82.5°	186.5	176.0	220.7	212.8	220.7	239.0	320.5	449.2	504.4	730.3	617.3
85°	57.8	57.8	60.4	70.9	86.7	84.1	139.2	220.7	244.3	312.6	231.2
87.5°	10.5	10.5	10.5	10.5	10.5	13.1	28.9	44.7	60.4	107.7	81.4
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°	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4	3819.4
2.5°	3872.0	3848.3	3861.5	3869.4	3866.7	3861.5	3835.2	3829.9	3816.8	3795.8	3790.5
5°	3987.6	3961.3	3963.9	3956.0	3929.8	3895.6	3837.8	3808.9	3785.3	3759.0	3756.4
7.5°	4168.8	4139.9	4132.0	4095.3	4021.7	3942.9	3851.0	3798.4	3759.0	3724.9	3719.6
10°	4400.0	4371.1	4344.8	4258.1	4137.3	4032.2	3911.4	3835.2	3777.4	3735.4	3727.5
12.5°	4657.4	4633.8	4568.1	4442.0	4297.5	4174.1	4050.6	3956.0	3872.0	3808.9	3801.1
15°	4943.7	4891.2	4791.4	4628.5	4491.9	4392.1	4242.4	4113.6	3979.7	3895.6	3877.2
17.5°	5143.4	5098.7	4980.5	4822.9	4715.2	4628.5	4452.5	4268.6	4087.4	3963.9	3937.6
20°	5285.2	5237.9	5104.0	4988.4	4954.2	4880.7	4675.8	4463.0	4252.9	4100.5	4066.4
22.5°	5387.7	5337.8	5201.2	5143.4	5190.7	5177.5	4977.9	4736.2	4486.7	4305.4	4263.4
25°	5484.9	5437.6	5316.7	5337.8	5463.8	5503.3	5287.9	5006.8	4723.1	4510.3	4460.4
27.5°	5576.8	5516.4	5461.2	5576.8	5755.4	5829.0	5600.4	5282.6	4975.3	4757.2	4717.8
30°	5718.7	5647.7	5639.8	5808.0	6091.7	6154.7	5902.5	5584.7	5280.0	5059.3	5009.4
32.5°	5897.3	5831.6	5836.9	6089.0	6417.4	6469.9	6254.5	5957.7	5653.0	5432.3	5364.0
35°	6139.0	6057.5	6102.2	6412.1	6743.1	6840.3	6666.9	6420.0	6123.2	5897.3	5821.1
37.5°	6472.6	6354.4	6446.3	6772.0	7105.6	7250.1	7116.1	6932.3	6638.1	6409.5	6338.6
40°	6898.1	6800.9	6837.7	7197.6	7541.7	7715.1	7631.0	7449.7	7158.2	6919.1	6837.7
42.5°	7402.5	7305.3	7292.1	7675.7	8019.8	8282.5	8201.0	8035.5	7733.4	7460.3	7381.5
45°	7896.3	7807.0	7825.4	8216.8	8602.9	8889.3	8807.8	8613.4	8285.1	7969.9	7906.8
47.5°	8411.2	8337.6	8353.4	8768.4	9194.0	9480.3	9377.9	9141.4	8757.9	8421.7	8345.5
50°	8939.2	8855.1	8878.8	9314.8	9774.5	10045.1	9887.5	9538.1	9115.2	8786.8	8721.1
52.5°	9464.5	9364.7	9425.1	9837.6	10313.0	10528.4	10236.8	9813.9	9404.1	9078.4	9004.8
55°	10068.7	9963.6	9898.0	10339.3	10809.5	10898.8	10499.5	10005.7	9519.7	9149.3	9104.7
57.5°	10620.4	10531.0	10407.6	10848.9	11195.6	11130.0	10701.8	9953.1	9238.6	8763.2	8700.1
60°	11114.2	11038.0	10930.3	11306.0	11463.6	11316.5	10538.9	9330.6	8545.1	8048.7	8019.8
62.5°	11568.7	11487.2	11387.4	11707.9	11686.9	11345.4	9798.2	8374.4	7323.7	6790.4	6743.1
65°	11928.5	11855.0	11826.1	12078.3	12044.1	10780.6	8645.0	6808.8	5350.9	4749.3	4731.0
67.5°	12031.0	12002.1	12157.1	12585.2	12052.0	9645.8	6779.9	4515.6	2873.8	2303.7	2269.6
70°	11647.5	11644.8	12088.8	12700.8	10959.2	7368.3	4000.7	2035.8	1444.8	1281.9	1260.9
72.5°	11148.4	11140.5	11492.5	10956.6	8127.5	4032.2	1683.8	1090.1	903.6	859.0	859.0
75°	10328.8	10307.8	10573.1	8335.0	4570.7	1518.3	893.1	748.7	709.2	701.4	701.4
77.5°	8419.1	8243.1	7825.4	5151.3	1594.5	746.0	591.0	588.4	564.8	562.1	562.1
80°	2768.7	2768.7	3217.9	1964.9	704.0	459.7	417.7	438.7	415.0	399.3	396.7
82.5°	451.8	622.6	885.2	562.1	380.9	286.3	257.4	273.2	286.3	228.5	228.5
85°	178.6	233.8	341.5	262.7	176.0	115.6	123.5	136.6	120.8	105.1	102.4
87.5°	68.3	84.1	120.8	63.0	36.8	21.0	13.1	13.1	10.5	10.5	10.5
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)