

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: P643308

Luminaire Tested: GWS-SA6E-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643308
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-SAGE-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46491.8 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

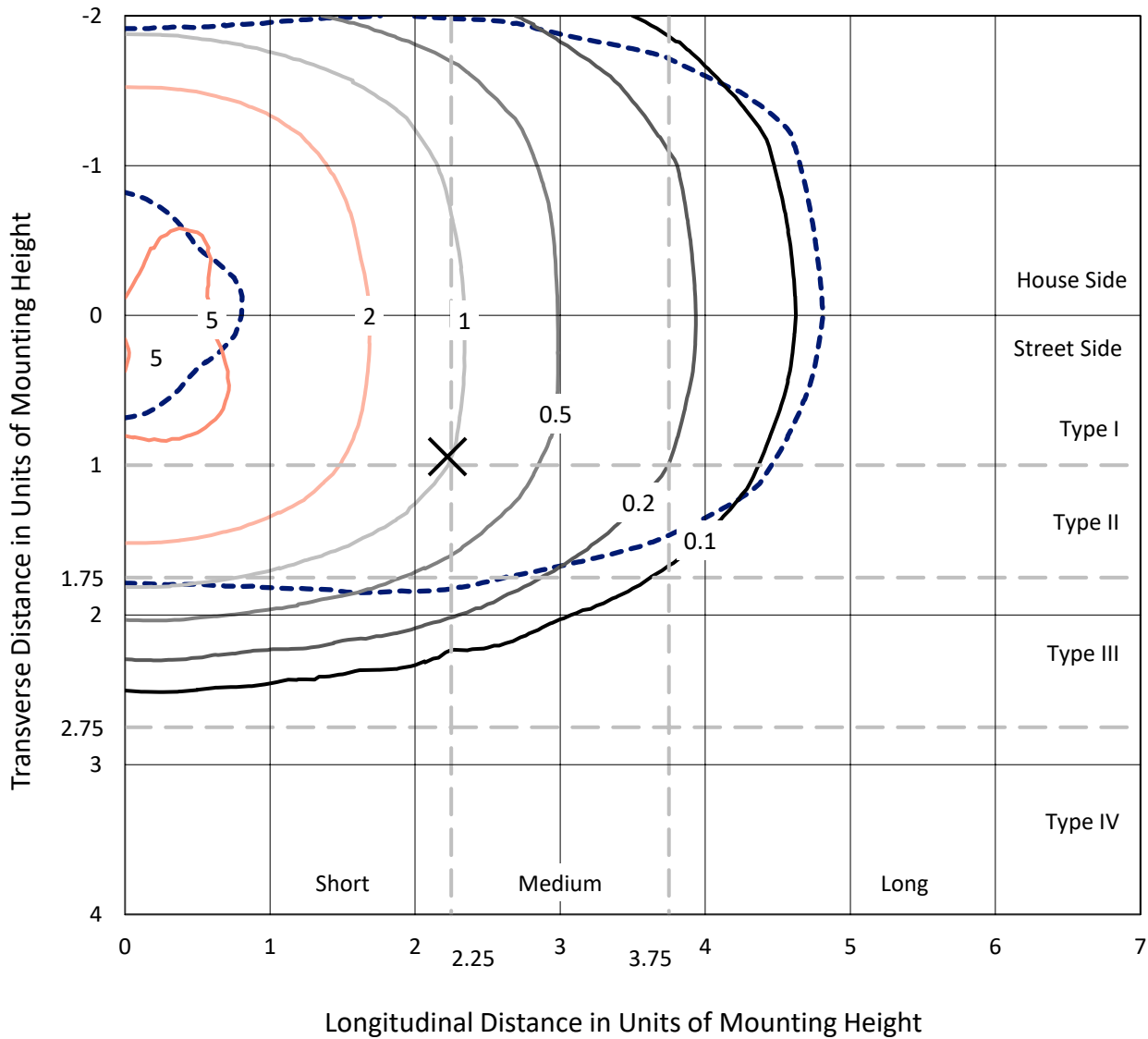
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

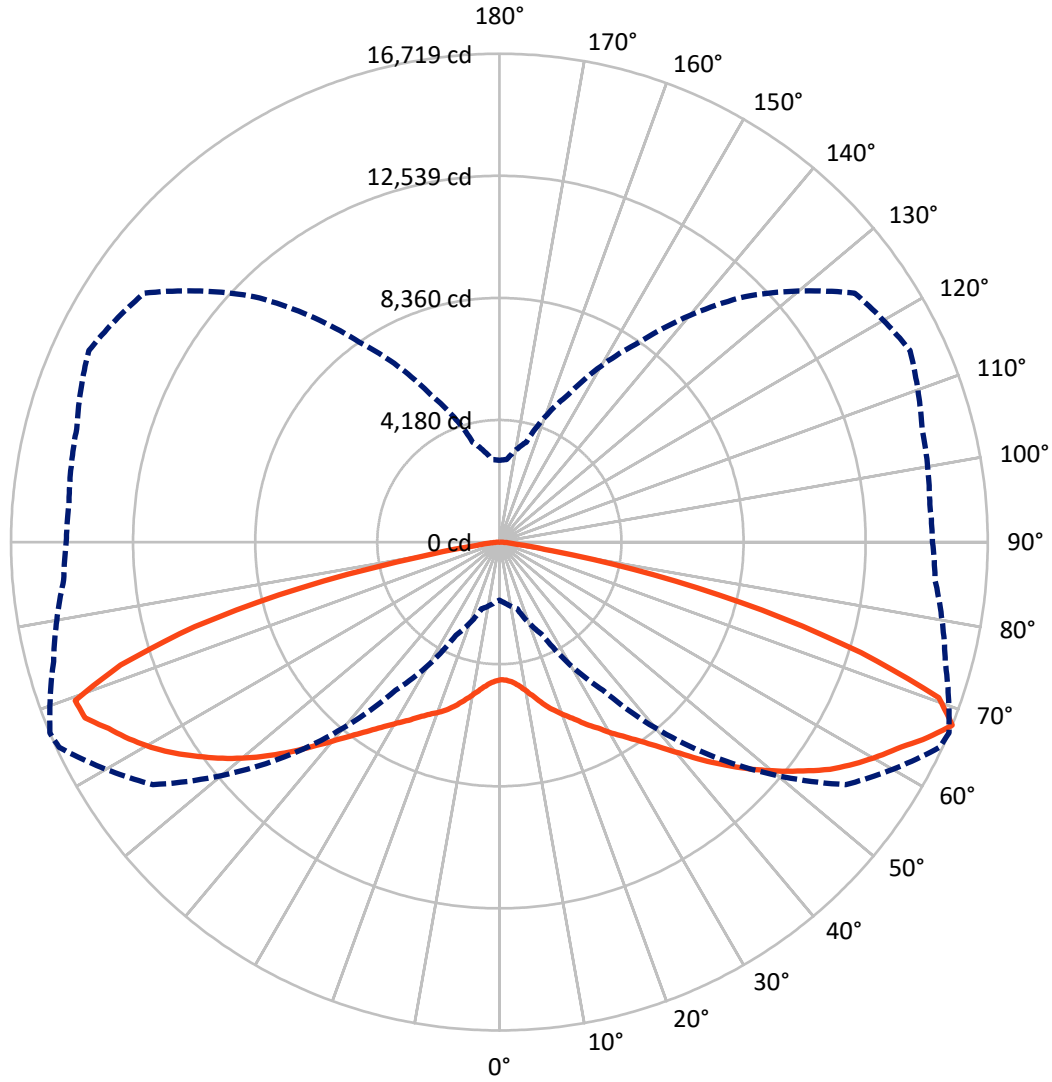
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	22989.4	0.0	22989.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	23502.5	0.0	23502.5
	% Fixture	50.6	0.0	50.6
Total	Lumens	46491.8	0.0	46491.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.9	1.0
10°-20°	1560.4	3.4
20°-30°	3061.4	6.6
30°-40°	5215.7	11.2
40°-50°	8375.3	18.0
50°-60°	11380.3	24.5
60°-70°	10886.1	23.4
70°-80°	5175.6	11.1
80°-90°	375.1	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°	46491.8	100.0
0°-180°	46491.8	100.0

Coefficient of Utilization



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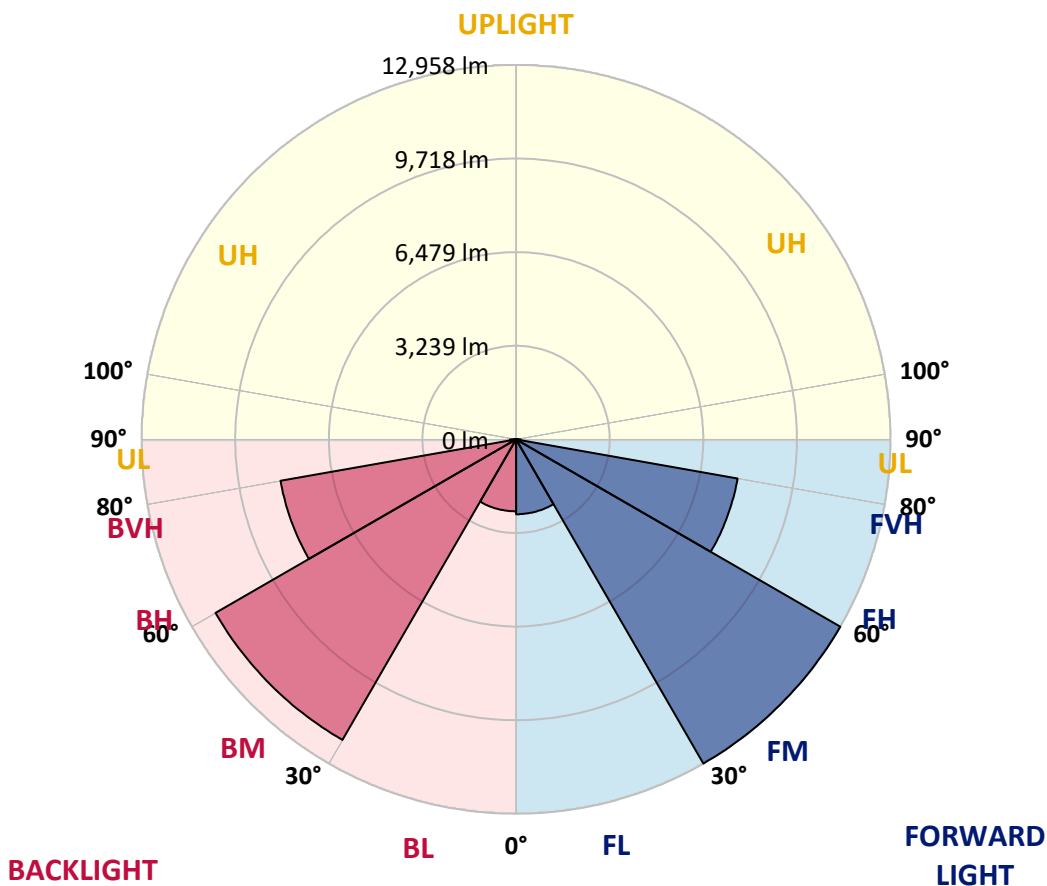
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2592.3	5.6			
FM (30°-60°)	12957.7	27.9			
FH (60°-80°)	7783.9	16.7			G4/12000
FVH (80°-90°)	168.6	0.4			G2/225
BL (0°-30°)	2491.4	5.4	B3/2500		
BM (30°-60°)	12013.7	25.8	B5		
BH (60°-80°)	8277.8	17.8	B5		G5
BVH (80°-90°)	206.5	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°	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6
2.5°	4610.4	4616.9	4626.6	4646.0	4665.5	4694.6	4723.7	4720.5	4733.5	4743.2	4752.9
5°	4584.5	4591.0	4607.2	4633.1	4662.2	4710.8	4772.3	4798.2	4817.6	4853.2	4885.6
7.5°	4639.6	4652.5	4675.2	4710.8	4756.1	4817.6	4901.8	4947.1	4976.3	5041.0	5096.1
10°	4714.0	4730.2	4775.5	4843.5	4911.5	5005.4	5112.3	5180.3	5199.7	5283.9	5387.5
12.5°	4785.3	4804.7	4879.1	5002.2	5125.2	5251.5	5377.7	5461.9	5468.4	5581.7	5698.3
15°	4898.6	4914.8	5015.1	5173.8	5361.6	5536.4	5691.8	5750.1	5776.0	5856.9	6002.6
17.5°	5147.9	5167.3	5296.8	5468.4	5665.9	5850.4	6005.9	6054.4	6054.4	6122.4	6242.2
20°	5416.6	5436.0	5607.6	5827.8	6067.4	6255.2	6374.9	6329.6	6313.4	6332.9	6417.0
22.5°	5717.7	5753.3	5918.4	6174.2	6468.8	6698.7	6760.2	6624.2	6578.9	6533.6	6553.0
25°	6103.0	6145.1	6307.0	6578.9	6867.1	7109.9	7145.5	6935.1	6909.2	6750.5	6692.2
27.5°	6546.5	6578.9	6779.7	7048.4	7317.1	7521.1	7559.9	7300.9	7213.5	6993.3	6857.4
30°	7119.6	7148.7	7323.6	7589.1	7822.2	7964.6	8013.2	7657.1	7589.1	7252.4	7041.9
32.5°	7744.5	7757.4	7935.5	8191.3	8398.5	8534.5	8466.5	8052.1	7951.7	7572.9	7284.7
35°	8460.0	8460.0	8689.9	8897.1	9062.2	9101.1	8971.5	8498.9	8382.3	7971.1	7611.7
37.5°	9162.6	9182.0	9395.7	9641.7	9787.4	9781.0	9544.6	9026.6	8893.8	8447.0	8048.8
40°	9923.4	9965.5	10179.2	10454.4	10593.6	10574.2	10211.6	9635.3	9499.3	8971.5	8583.0
42.5°	10622.8	10690.7	10940.0	11221.7	11373.9	11360.9	10982.1	10334.6	10201.9	9606.1	9217.6
45°	11179.6	11250.9	11561.7	11953.4	12196.3	12173.6	11791.5	11059.8	10898.0	10273.1	9845.7
47.5°	11668.5	11743.0	12089.4	12503.8	12889.1	12928.0	12578.3	11791.5	11620.0	10988.6	10506.2
50°	12044.1	12079.7	12468.2	12921.5	13368.3	13585.2	13280.9	12526.5	12319.3	11694.4	11150.5
52.5°	12014.9	12063.5	12542.7	13157.8	13756.8	14112.9	13902.5	13219.4	13018.6	12338.7	11807.7
55°	11422.5	11471.0	12040.8	12937.7	13973.7	14498.2	14475.6	13879.8	13734.1	12996.0	12490.9
57.5°	10558.0	10664.8	11231.4	12199.5	13688.8	14805.8	14896.5	14482.0	14329.9	13640.3	13167.6
60°	9010.4	9152.9	9806.9	11063.1	12775.8	14702.2	15346.5	14990.4	14896.5	14239.2	13779.5
62.5°	6546.5	6650.1	7521.1	9169.0	11422.5	13964.0	15725.3	15514.9	15443.6	14776.7	14333.1
65°	3920.8	4157.2	4856.5	6485.0	9214.4	12571.8	15518.1	16201.2	16126.8	15330.3	14805.8
67.5°	1984.7	2091.5	2366.7	3516.1	6196.9	10402.6	14478.8	16628.6	16719.3	15803.0	14974.2
70°	1230.3	1259.4	1337.2	1735.4	3095.2	6834.7	11840.1	15514.9	15958.4	15728.5	14537.1
72.5°	987.5	994.0	1006.9	1081.4	1486.1	3195.6	7485.5	12150.9	12950.6	14689.3	13912.2
75°	819.1	822.4	825.6	848.3	926.0	1304.8	3642.4	8349.9	9285.6	12484.4	12898.8
77.5°	657.2	641.1	654.0	663.7	683.1	728.5	1256.2	4455.0	5403.7	8194.5	9975.2
80°	427.4	420.9	446.8	456.5	475.9	505.1	670.2	1512.0	1835.8	2981.9	3172.9
82.5°	229.9	216.9	272.0	262.3	272.0	294.6	395.0	553.6	621.6	900.1	760.8
85°	71.2	71.2	74.5	87.4	106.8	103.6	171.6	272.0	301.1	385.3	284.9
87.5°	13.0	13.0	13.0	13.0	13.0	16.2	35.6	55.0	74.5	132.7	100.4
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°	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6	4707.6
2.5°	4772.3	4743.2	4759.4	4769.1	4765.8	4759.4	4727.0	4720.5	4704.3	4678.4	4671.9
5°	4914.8	4882.4	4885.6	4875.9	4843.5	4801.4	4730.2	4694.6	4665.5	4633.1	4629.9
7.5°	5138.2	5102.5	5092.8	5047.5	4956.9	4859.7	4746.4	4681.7	4633.1	4591.0	4584.5
10°	5423.1	5387.5	5355.1	5248.2	5099.3	4969.8	4820.9	4727.0	4655.8	4603.9	4594.2
12.5°	5740.4	5711.2	5630.3	5474.9	5296.8	5144.6	4992.5	4875.9	4772.3	4694.6	4684.9
15°	6093.3	6028.5	5905.5	5704.8	5536.4	5413.4	5228.8	5070.2	4905.1	4801.4	4778.8
17.5°	6339.3	6284.3	6138.6	5944.3	5811.6	5704.8	5487.8	5261.2	5037.8	4885.6	4853.2
20°	6514.2	6455.9	6290.8	6148.3	6106.2	6015.6	5763.0	5500.8	5241.8	5054.0	5011.9
22.5°	6640.4	6578.9	6410.6	6339.3	6397.6	6381.4	6135.4	5837.5	5529.9	5306.5	5254.7
25°	6760.2	6702.0	6553.0	6578.9	6734.3	6782.9	6517.4	6171.0	5821.3	5559.1	5497.5
27.5°	6873.5	6799.1	6731.1	6873.5	7093.7	7184.4	6902.7	6510.9	6132.1	5863.4	5814.8
30°	7048.4	6961.0	6951.3	7158.5	7508.1	7585.8	7275.0	6883.3	6507.7	6235.7	6174.2
32.5°	7268.5	7187.6	7194.1	7504.9	7909.6	7974.4	7708.9	7343.0	6967.4	6695.5	6611.3
35°	7566.4	7466.0	7521.1	7903.1	8311.1	8430.9	8217.2	7912.8	7547.0	7268.5	7174.6
37.5°	7977.6	7831.9	7945.2	8346.7	8757.9	8935.9	8770.8	8544.2	8181.6	7899.9	7812.5
40°	8502.1	8382.3	8427.6	8871.2	9295.3	9509.0	9405.4	9182.0	8822.6	8528.0	8427.6
42.5°	9123.7	9003.9	8987.7	9460.4	9884.6	10208.3	10108.0	9904.0	9531.7	9194.9	9097.8
45°	9732.4	9622.3	9645.0	10127.4	10603.3	10956.2	10855.9	10616.3	10211.6	9823.1	9745.3
47.5°	10367.0	10276.3	10295.8	10807.3	11331.8	11684.7	11558.4	11267.0	10794.3	10379.9	10286.0
50°	11017.7	10914.1	10943.3	11480.7	12047.3	12380.8	12186.5	11755.9	11234.7	10830.0	10749.0
52.5°	11665.3	11542.2	11616.7	12125.0	12711.0	12976.5	12617.2	12095.9	11590.8	11189.3	11098.7
55°	12409.9	12280.4	12199.5	12743.4	13323.0	13433.0	12940.9	12332.2	11733.3	11276.8	11221.7
57.5°	13089.8	12979.8	12827.6	13371.5	13798.9	13718.0	13190.2	12267.5	11386.8	10800.8	10723.1
60°	13698.5	13604.6	13471.9	13934.9	14129.1	13947.8	12989.5	11500.2	10532.1	9920.2	9884.6
62.5°	14258.6	14158.3	14035.2	14430.2	14404.3	13983.4	12076.5	10321.7	9026.6	8369.3	8311.1
65°	14702.2	14611.5	14575.9	14886.7	14844.7	13287.3	10655.1	8392.0	6595.1	5853.7	5831.0
67.5°	14828.5	14792.9	14983.9	15511.6	14854.4	11888.7	8356.4	5565.5	3542.0	2839.4	2797.3
70°	14355.8	14352.5	14899.7	15654.1	13507.5	9081.6	4931.0	2509.2	1780.7	1580.0	1554.1
72.5°	13740.6	13730.9	14164.8	13504.3	10017.3	4969.8	2075.3	1343.6	1113.8	1058.7	1058.7
75°	12730.5	12704.6	13031.6	10273.1	5633.5	1871.4	1100.8	922.7	874.2	864.5	864.5
77.5°	10376.7	10159.8	9645.0	6349.0	1965.3	919.5	728.5	725.2	696.1	692.9	692.9
80°	3412.5	3412.5	3966.1	2421.8	867.7	566.6	514.8	540.7	511.5	492.1	488.9
82.5°	556.9	767.3	1091.1	692.9	469.5	352.9	317.3	336.7	352.9	281.7	281.7
85°	220.2	288.2	420.9	323.8	216.9	142.5	152.2	168.4	148.9	129.5	126.3
87.5°	84.2	103.6	148.9	77.7	45.3	25.9	16.2	16.2	13.0	13.0	13.0
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)