

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: P640778

Luminaire Tested: GWS-SA5E-750-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640778  
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-SA5E-750-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

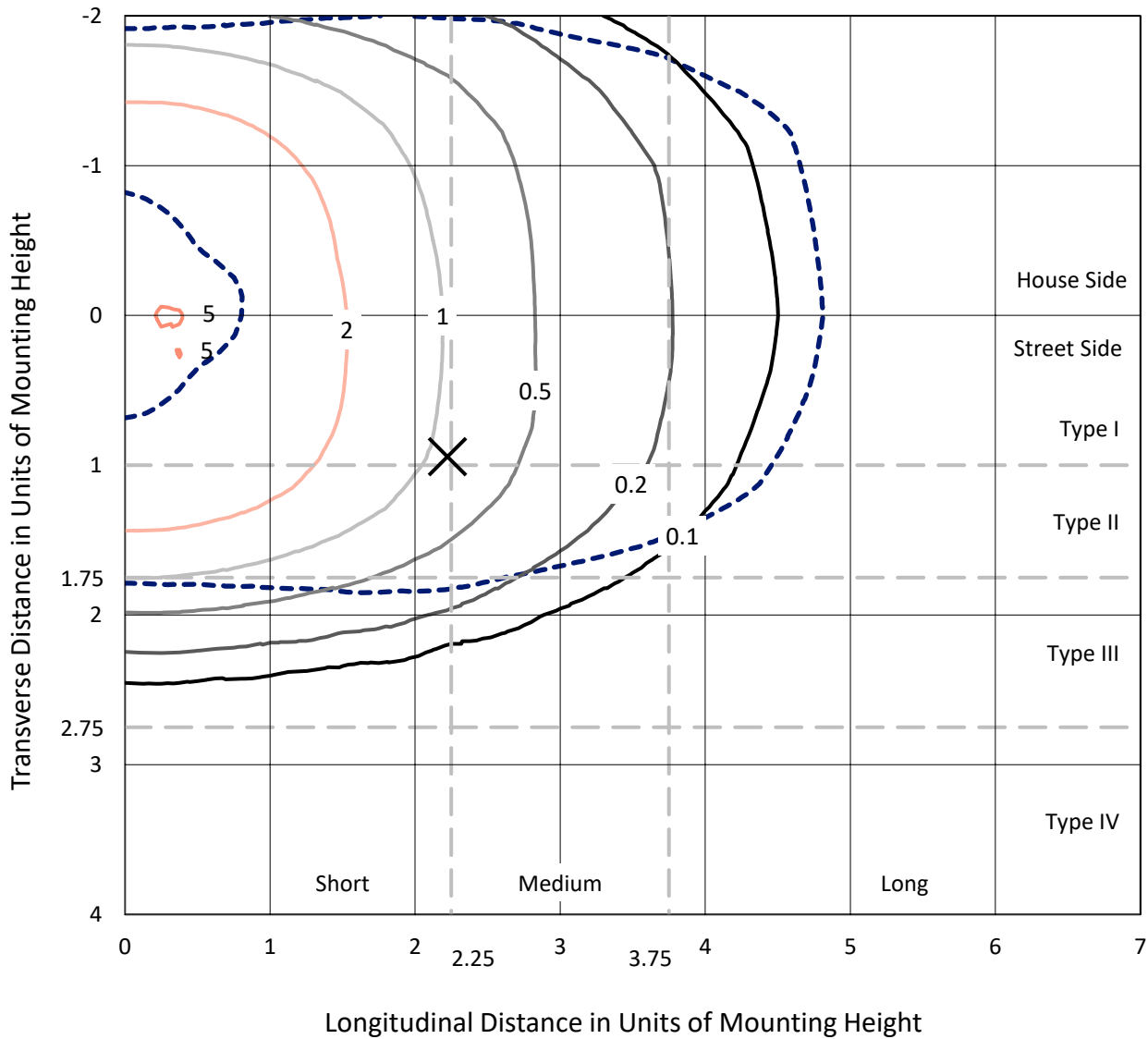
Lumens per Lamp: N/A  
Luminaire Lumens: 39530.9 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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: P640778  
 CATALOG NUMBER: GWS-SA5E-750-U-RW-W

### Iso-Footcandle Lines of Horizontal Illumination

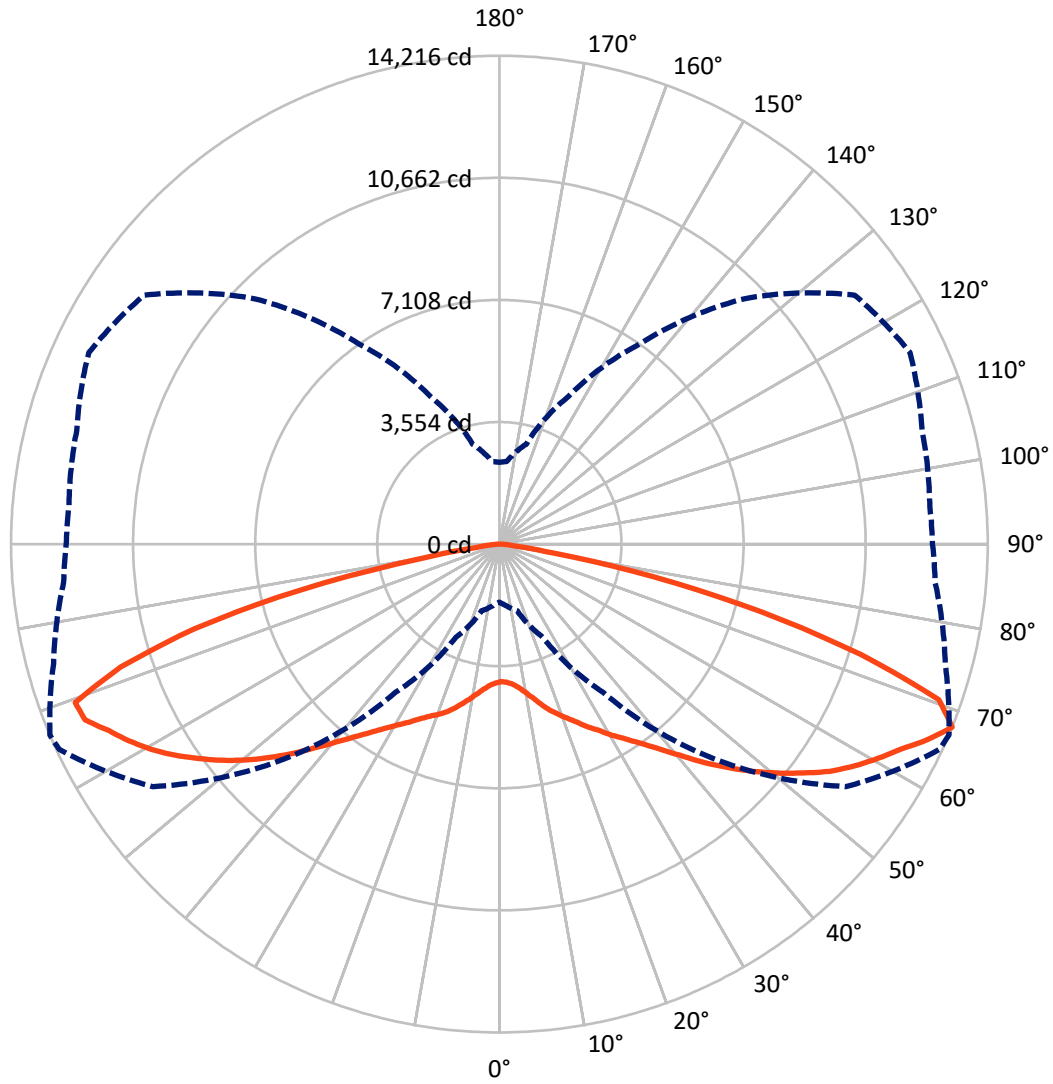
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P640778  
CATALOG NUMBER: GWS-SA5E-750-U-RW-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640778

CATALOG NUMBER: GWS-SA5E-750-U-RW-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19547.3	0.0	19547.3
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	19983.6	0.0	19983.6
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	39530.9	0.0	39530.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.7	1.0
10°-20°	1326.8	3.4
20°-30°	2603.1	6.6
30°-40°	4434.8	11.2
40°-50°	7121.4	18.0
50°-60°	9676.4	24.5
60°-70°	9256.2	23.4
70°-80°	4400.7	11.1
80°-90°	318.9	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°	39530.9	100.0
0°-180°	39530.9	100.0

**Coefficient of Utilization**



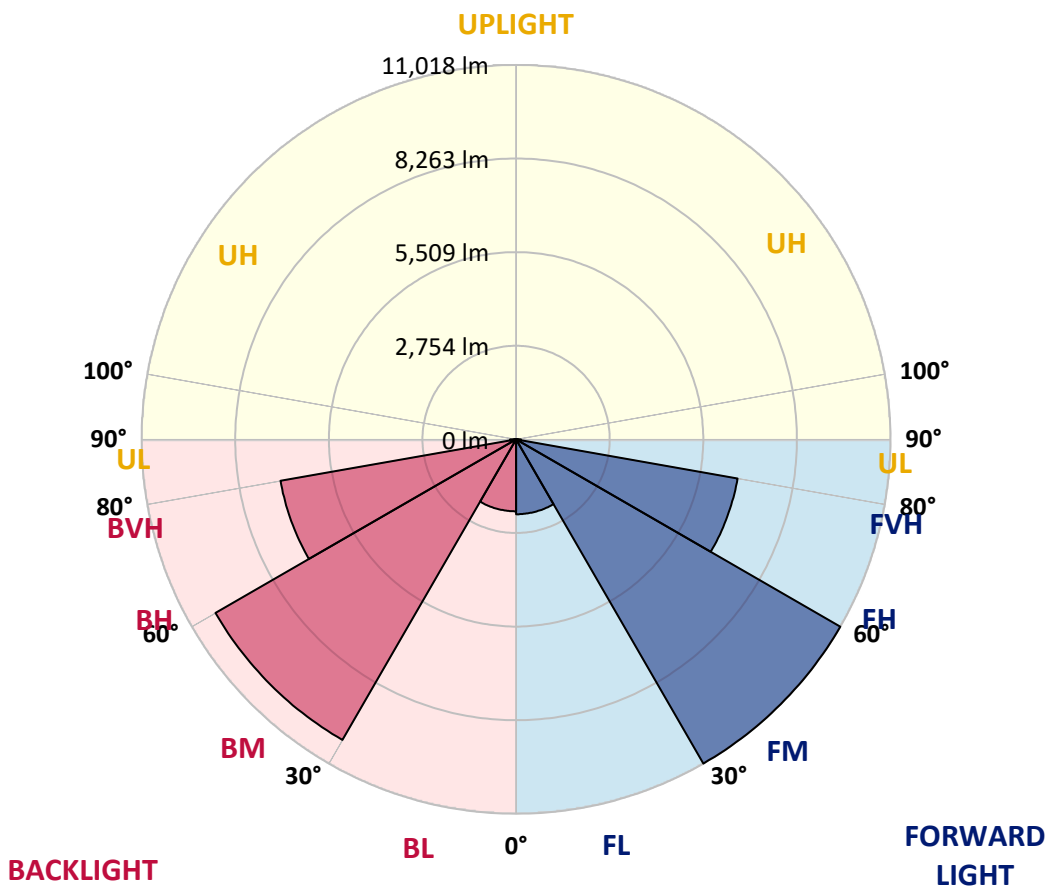
REPORT NUMBER: P640778

CATALOG NUMBER: GWS-SA5E-750-U-RW-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.1	5.6			
FM (30°-60°)	11017.6	27.9			
FH (60°-80°)	6618.5	16.7			G3/7500
FVH (80°-90°)	143.3	0.4			G2/225
BL (0°-30°)	2118.4	5.4	B3/2500		
BM (30°-60°)	10215.0	25.8	B5		
BH (60°-80°)	7038.4	17.8	B5		G5
BVH (80°-90°)	175.6	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: P640778

CATALOG NUMBER: GWS-SA5E-750-U-RW-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7
2.5°	3920.1	3925.6	3933.9	3950.4	3966.9	3991.7	4016.5	4013.7	4024.7	4033.0	4041.3
5°	3898.1	3903.6	3917.4	3939.4	3964.2	4005.5	4057.8	4079.8	4096.3	4126.6	4154.1
7.5°	3944.9	3955.9	3975.2	4005.5	4044.0	4096.3	4167.9	4206.4	4231.2	4286.3	4333.1
10°	4008.2	4022.0	4060.5	4118.3	4176.2	4256.0	4346.8	4404.6	4421.2	4492.7	4580.8
12.5°	4068.8	4085.3	4148.6	4253.2	4357.8	4465.2	4572.6	4644.2	4649.7	4746.0	4845.1
15°	4165.1	4178.9	4264.2	4399.1	4558.8	4707.5	4839.6	4889.2	4911.2	4980.0	5103.9
17.5°	4377.1	4393.6	4503.8	4649.7	4817.6	4974.5	5106.6	5147.9	5147.9	5205.7	5307.6
20°	4605.6	4622.1	4768.0	4955.2	5158.9	5318.6	5420.5	5381.9	5368.2	5384.7	5456.3
22.5°	4861.6	4891.9	5032.3	5249.8	5500.3	5695.8	5748.1	5632.4	5593.9	5555.4	5571.9
25°	5189.2	5225.0	5362.7	5593.9	5838.9	6045.4	6075.7	5896.7	5874.7	5739.8	5690.3
27.5°	5566.4	5593.9	5764.6	5993.1	6221.6	6395.0	6428.0	6207.8	6133.5	5946.3	5830.7
30°	6053.6	6078.4	6227.1	6452.8	6651.0	6772.1	6813.4	6510.6	6452.8	6166.5	5987.6
32.5°	6584.9	6596.0	6747.4	6964.8	7141.0	7256.7	7198.8	6846.5	6761.1	6439.0	6194.0
35°	7193.3	7193.3	7388.8	7565.0	7705.4	7738.4	7628.3	7226.4	7127.3	6777.7	6472.1
37.5°	7790.7	7807.2	7988.9	8198.2	8322.0	8316.5	8115.6	7675.1	7562.2	7182.3	6843.7
40°	8437.7	8473.4	8655.1	8889.1	9007.5	8991.0	8682.7	8192.6	8077.0	7628.3	7298.0
42.5°	9032.3	9090.1	9302.1	9541.6	9671.0	9659.9	9337.9	8787.3	8674.4	8167.9	7837.5
45°	9505.8	9566.3	9830.6	10163.7	10370.2	10350.9	10026.1	9403.9	9266.3	8735.0	8371.6
47.5°	9921.5	9984.8	10279.3	10631.7	10959.3	10992.3	10695.0	10026.1	9880.2	9343.4	8933.2
50°	10240.8	10271.1	10601.4	10986.8	11366.7	11551.2	11292.4	10651.0	10474.8	9943.5	9481.0
52.5°	10216.0	10257.3	10664.8	11187.8	11697.1	11999.9	11821.0	11240.1	11069.4	10491.3	10039.8
55°	9712.2	9753.5	10238.1	11000.6	11881.5	12327.5	12308.2	11801.7	11677.8	11050.2	10620.7
57.5°	8977.2	9068.1	9549.8	10372.9	11639.3	12589.0	12666.1	12313.7	12184.4	11598.0	11196.1
60°	7661.3	7782.5	8338.5	9406.7	10863.0	12500.9	13048.8	12746.0	12666.1	12107.3	11716.4
62.5°	5566.4	5654.5	6395.0	7796.2	9712.2	11873.3	13370.9	13191.9	13131.4	12564.3	12187.1
65°	3333.8	3534.7	4129.4	5514.1	7834.8	10689.5	13194.7	13775.5	13712.2	13035.0	12589.0
67.5°	1687.5	1778.4	2012.4	2989.7	5269.1	8845.1	12311.0	14138.9	14216.0	13436.9	12732.2
70°	1046.1	1070.9	1136.9	1475.6	2631.8	5811.4	10067.4	13191.9	13569.1	13373.6	12360.5
72.5°	839.6	845.1	856.2	919.5	1263.6	2717.1	6364.7	10331.7	11011.6	12489.9	11829.2
75°	696.5	699.2	702.0	721.3	787.3	1109.4	3097.0	7099.7	7895.3	10615.2	10967.6
77.5°	558.8	545.1	556.1	564.3	580.9	619.4	1068.1	3788.0	4594.6	6967.6	8481.7
80°	363.4	357.9	379.9	388.2	404.7	429.5	569.9	1285.6	1560.9	2535.4	2697.8
82.5°	195.5	184.4	231.2	223.0	231.2	250.5	335.9	470.7	528.6	765.3	646.9
85°	60.6	60.6	63.3	74.3	90.8	88.1	145.9	231.2	256.0	327.6	242.3
87.5°	11.0	11.0	11.0	11.0	11.0	13.8	30.3	46.8	63.3	112.9	85.3
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: P640778  
 CATALOG NUMBER: GWS-SA5E-750-U-RW-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7	4002.7
2.5°	4057.8	4033.0	4046.8	4055.0	4052.3	4046.8	4019.2	4013.7	4000.0	3977.9	3972.4
5°	4178.9	4151.4	4154.1	4145.9	4118.3	4082.6	4022.0	3991.7	3966.9	3939.4	3936.7
7.5°	4368.9	4338.6	4330.3	4291.8	4214.7	4132.1	4035.8	3980.7	3939.4	3903.6	3898.1
10°	4611.1	4580.8	4553.3	4462.5	4335.8	4225.7	4099.1	4019.2	3958.7	3914.6	3906.4
12.5°	4880.9	4856.1	4787.3	4655.2	4503.8	4374.4	4245.0	4145.9	4057.8	3991.7	3983.5
15°	5181.0	5125.9	5021.3	4850.6	4707.5	4602.9	4445.9	4311.0	4170.7	4082.6	4063.3
17.5°	5390.2	5343.4	5219.5	5054.3	4941.5	4850.6	4666.2	4473.5	4283.5	4154.1	4126.6
20°	5538.8	5489.3	5348.9	5227.8	5192.0	5114.9	4900.2	4677.2	4457.0	4297.3	4261.5
22.5°	5646.2	5593.9	5450.8	5390.2	5439.7	5426.0	5216.8	4963.5	4702.0	4512.0	4468.0
25°	5748.1	5698.5	5571.9	5593.9	5726.0	5767.3	5541.6	5247.0	4949.7	4726.7	4674.4
27.5°	5844.4	5781.1	5723.3	5844.4	6031.6	6108.7	5869.2	5536.1	5214.0	4985.5	4944.2
30°	5993.1	5918.7	5910.5	6086.7	6384.0	6450.1	6185.8	5852.7	5533.3	5302.1	5249.8
32.5°	6180.3	6111.4	6117.0	6381.2	6725.3	6780.4	6554.7	6243.6	5924.3	5693.0	5621.4
35°	6433.5	6348.2	6395.0	6719.8	7066.7	7168.6	6986.9	6728.1	6417.0	6180.3	6100.4
37.5°	6783.2	6659.3	6755.6	7097.0	7446.6	7598.0	7457.6	7264.9	6956.6	6717.1	6642.8
40°	7229.1	7127.3	7165.8	7543.0	7903.6	8085.3	7997.2	7807.2	7501.7	7251.2	7165.8
42.5°	7757.7	7655.8	7642.1	8044.0	8404.6	8679.9	8594.6	8421.1	8104.6	7818.3	7735.7
45°	8275.2	8181.6	8200.9	8611.1	9015.8	9315.8	9230.5	9026.8	8682.7	8352.3	8286.2
47.5°	8814.8	8737.7	8754.2	9189.2	9635.2	9935.2	9827.9	9580.1	9178.2	8825.8	8746.0
50°	9368.1	9280.0	9304.8	9761.8	10243.6	10527.1	10361.9	9995.8	9552.6	9208.5	9139.6
52.5°	9918.7	9814.1	9877.4	10309.6	10807.9	11033.6	10728.1	10284.9	9855.4	9514.0	9437.0
55°	10551.9	10441.8	10372.9	10835.4	11328.2	11421.8	11003.4	10485.8	9976.5	9588.4	9541.6
57.5°	11130.0	11036.4	10907.0	11369.5	11732.9	11664.1	11215.3	10430.8	9682.0	9183.7	9117.6
60°	11647.5	11567.7	11454.8	11848.5	12013.7	11859.5	11044.7	9778.3	8955.2	8434.9	8404.6
62.5°	12123.8	12038.5	11933.8	12269.7	12247.7	11889.8	10268.3	8776.3	7675.1	7116.3	7066.7
65°	12500.9	12423.9	12393.6	12657.9	12622.1	11297.9	9059.8	7135.5	5607.7	4977.3	4958.0
67.5°	12608.3	12578.0	12740.4	13189.2	12630.3	10108.7	7105.2	4732.2	3011.7	2414.3	2378.5
70°	12206.4	12203.6	12668.9	13310.3	11485.1	7721.9	4192.7	2133.5	1514.1	1343.4	1321.4
72.5°	11683.3	11675.1	12044.0	11482.4	8517.5	4225.7	1764.6	1142.5	947.0	900.2	900.2
75°	10824.4	10802.4	11080.4	8735.0	4790.1	1591.2	936.0	784.6	743.3	735.0	735.0
77.5°	8823.1	8638.6	8200.9	5398.4	1671.0	781.8	619.4	616.7	591.9	589.1	589.1
80°	2901.6	2901.6	3372.3	2059.2	737.8	481.8	437.7	459.7	435.0	418.4	415.7
82.5°	473.5	652.4	927.7	589.1	399.2	300.1	269.8	286.3	300.1	239.5	239.5
85°	187.2	245.0	357.9	275.3	184.4	121.1	129.4	143.2	126.6	110.1	107.4
87.5°	71.6	88.1	126.6	66.1	38.5	22.0	13.8	13.8	11.0	11.0	11.0
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)