

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: P638307

Luminaire Tested: GWS-SA4E-750-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-750-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

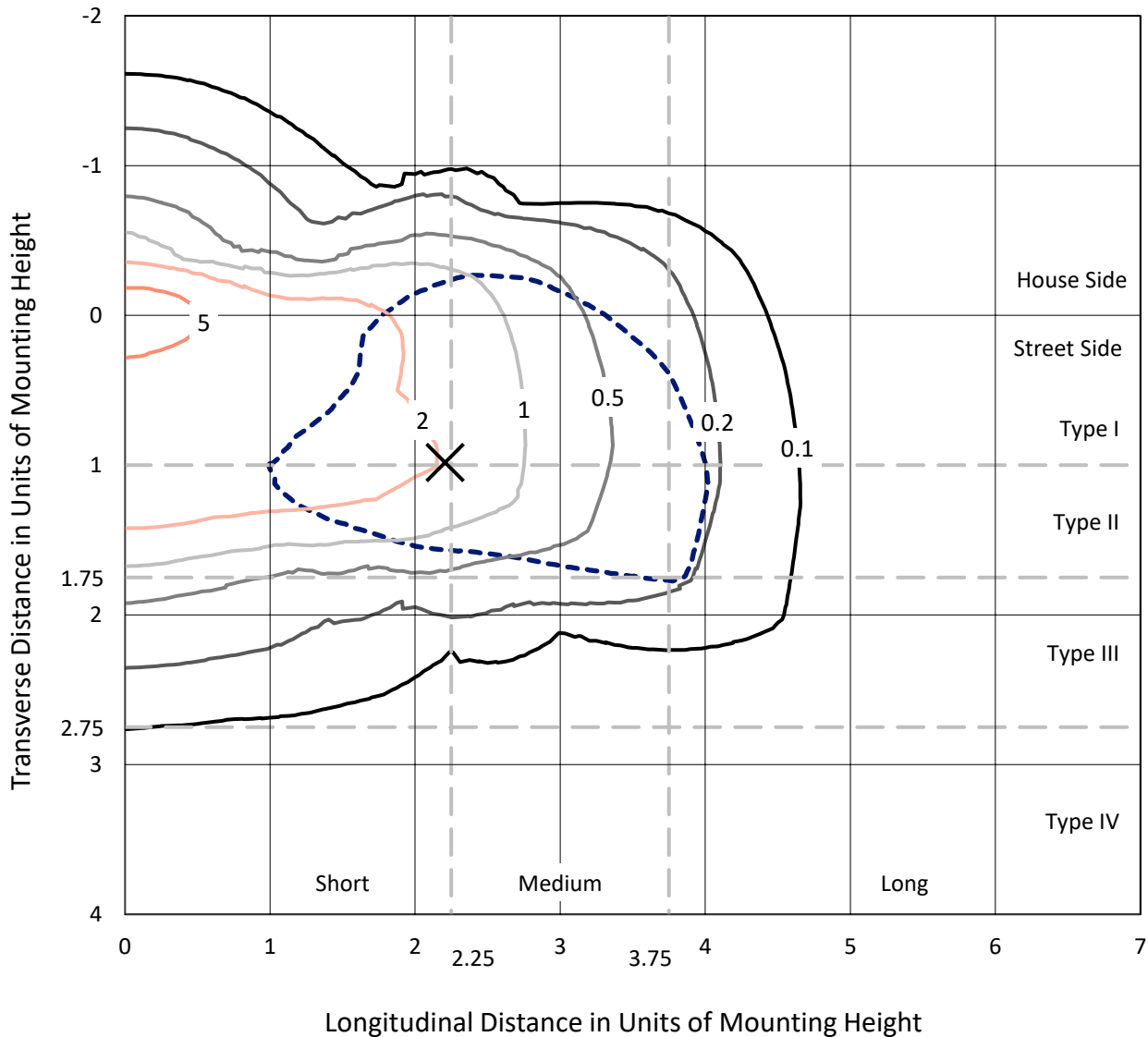
Lumens per Lamp: N/A  
Luminaire Lumens: 30761.9 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P638307  
 CATALOG NUMBER: GWS-SA4E-750-U-SL2-W

### Iso-Footcandle Lines of Horizontal Illumination

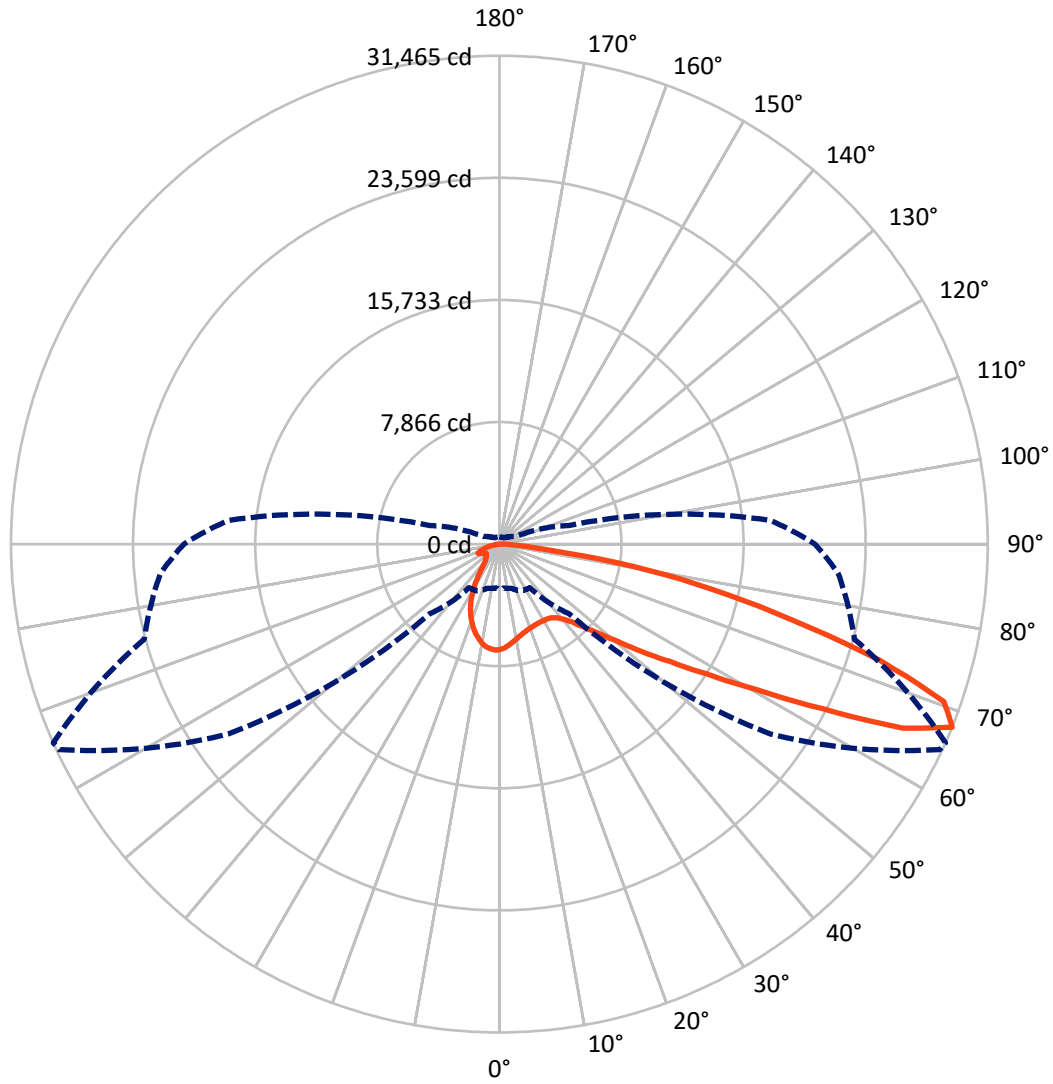
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P638307  
CATALOG NUMBER: GWS-SA4E-750-U-SL2-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638307

CATALOG NUMBER: GWS-SA4E-750-U-SL2-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6242.3	0.0	6242.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	24519.6	0.0	24519.6
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	30761.9	0.0	30761.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.6	1.9
10°-20°	1466.1	4.8
20°-30°	2015.2	6.6
30°-40°	2755.2	9.0
40°-50°	4174.8	13.6
50°-60°	6489.9	21.1
60°-70°	7901.3	25.7
70°-80°	4813.1	15.6
80°-90°	549.8	1.8
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°	30761.9	100.0
0°-180°	30761.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638307

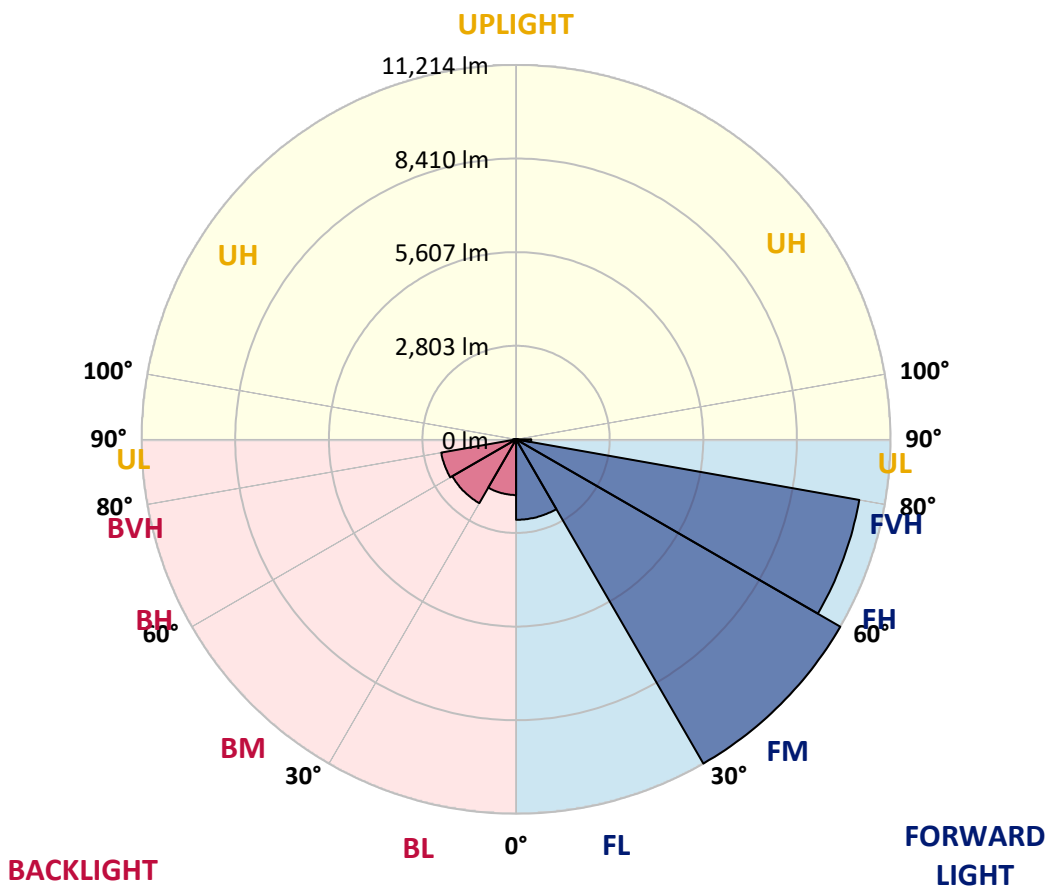
CATALOG NUMBER: GWS-SA4E-750-U-SL2-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2410.3	7.8			
FM (30°-60°)	11213.9	36.5			
FH (60°-80°)	10438.3	33.9			G4/12000
FVH (80°-90°)	457.1	1.5			G3/500
BL (0°-30°)	1667.6	5.4	B3/2500		
BM (30°-60°)	2206.0	7.2	B2/2500		
BH (60°-80°)	2276.1	7.4	B3/2500		G3/2500
BVH (80°-90°)	92.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P638307  
 CATALOG NUMBER: GWS-SA4E-750-U-SL2-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5
2.5°	6366.6	6389.1	6375.6	6460.9	6465.4	6573.1	6633.7	6685.3	6689.8	6757.1	6802.0
5°	5931.3	5944.7	5944.7	6025.5	6079.4	6223.0	6362.1	6510.3	6521.5	6683.1	6806.5
7.5°	5578.9	5592.4	5583.4	5691.1	5760.7	5920.0	6097.3	6324.0	6346.4	6606.8	6822.2
10°	5302.9	5298.4	5320.9	5419.6	5509.4	5700.1	5897.6	6155.7	6189.3	6519.2	6840.1
12.5°	5114.4	5118.9	5132.4	5235.6	5332.1	5520.6	5724.8	6005.3	6041.2	6418.2	6831.2
15°	5024.6	5015.7	5026.9	5121.1	5213.1	5379.2	5590.2	5879.7	5915.6	6328.5	6833.4
17.5°	5004.4	4997.7	4995.5	5062.8	5132.4	5287.2	5489.2	5783.2	5821.3	6270.1	6846.9
20°	5067.3	5058.3	5033.6	5062.8	5092.0	5222.1	5417.4	5713.6	5756.2	6232.0	6873.8
22.5°	5240.1	5224.4	5186.2	5150.3	5112.2	5190.7	5372.5	5662.0	5704.6	6207.3	6900.7
25°	5502.6	5489.2	5448.8	5368.0	5228.9	5215.4	5363.5	5639.5	5682.2	6189.3	6912.0
27.5°	5863.9	5843.7	5803.4	5686.7	5460.0	5307.4	5397.2	5637.3	5677.7	6169.1	6900.7
30°	6292.6	6279.1	6256.7	6115.3	5812.3	5502.6	5473.5	5655.2	5686.7	6157.9	6878.3
32.5°	6727.9	6714.5	6732.4	6665.1	6292.6	5825.8	5639.5	5704.6	5727.1	6155.7	6858.1
35°	7111.7	7127.4	7257.6	7268.8	6903.0	6263.4	5902.1	5819.1	5823.5	6200.6	6867.1
37.5°	7513.4	7574.0	7744.5	7890.4	7585.2	6842.4	6292.6	6034.5	6030.0	6315.0	6923.2
40°	8045.2	8072.2	8289.9	8563.6	8372.9	7636.8	6846.9	6386.8	6355.4	6548.4	7073.5
42.5°	8563.6	8628.7	8976.6	9290.7	9227.9	8532.2	7544.8	6914.2	6858.1	6961.3	7383.2
45°	9223.4	9286.3	9676.7	10080.7	10195.1	9544.3	8438.0	7663.7	7607.6	7583.0	7951.0
47.5°	9883.2	9948.3	10298.4	10881.8	11283.5	10810.0	9600.4	8653.4	8561.4	8464.9	8808.3
50°	10327.5	10403.8	10738.2	11438.4	12380.9	12389.9	10978.3	9950.5	9833.8	9681.2	10015.6
52.5°	10311.8	10361.2	10679.9	11487.8	13170.9	14205.4	12823.0	11602.2	11508.0	11175.8	11467.6
55°	9501.7	9575.8	9896.7	10906.5	13256.1	15926.7	15534.0	13550.1	13381.8	12787.1	13108.0
57.5°	7874.7	7937.5	8260.7	9506.2	12499.9	16808.6	18976.5	16032.2	15801.0	14542.0	14912.3
60°	5944.7	5868.4	6021.0	7111.7	10691.1	16831.1	22015.0	19398.4	19012.4	16418.1	16727.8
62.5°	4461.4	4385.1	4418.7	4726.2	7248.6	15471.1	23747.5	24003.3	23366.0	18536.6	18476.0
65°	3525.5	3482.9	3579.4	3790.4	4225.7	11781.7	23761.0	28983.1	28581.4	20991.7	20269.1
67.5°	2872.5	2845.6	2944.3	3334.8	3426.8	6330.7	21305.9	31308.0	31465.1	23680.2	21932.0
70°	2313.7	2273.3	2428.2	2942.1	3186.7	3830.8	15262.4	30123.1	30376.7	25282.5	21463.0
72.5°	1597.8	1600.1	1678.6	2383.3	3076.7	3307.9	8633.2	25082.8	25632.6	23830.5	18868.7
75°	1077.2	1086.2	1108.6	1573.1	2834.4	3209.1	4600.5	18989.9	19378.2	19696.8	15596.8
77.5°	650.8	655.3	706.9	951.5	1954.6	2995.9	3117.1	13765.6	14070.8	12984.6	9667.8
80°	377.0	392.7	439.9	637.3	1319.6	2250.9	2412.5	8440.2	8785.8	5771.9	3072.2
82.5°	166.1	177.3	240.1	370.3	769.7	1914.3	1882.8	3334.8	3285.4	1609.0	1066.0
85°	29.2	35.9	51.6	116.7	282.8	1009.9	1460.9	1472.2	1384.6	610.4	442.1
87.5°	0.0	0.0	0.0	0.0	0.0	6.7	219.9	395.0	392.7	172.8	152.6
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: P638307  
 CATALOG NUMBER: GWS-SA4E-750-U-SL2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5	6797.5
2.5°	6831.2	6770.6	6824.4	6831.2	6819.9	6811.0	6743.6	6685.3	6678.6	6615.7	6615.7
5°	6855.9	6799.8	6826.7	6775.1	6694.3	6611.2	6467.6	6368.9	6324.0	6243.2	6243.2
7.5°	6889.5	6831.2	6799.8	6671.8	6483.3	6301.6	6070.4	5877.4	5798.9	5684.4	5679.9
10°	6920.9	6846.9	6739.2	6490.1	6189.3	5899.8	5563.2	5289.4	5103.2	4966.3	4966.3
12.5°	6918.7	6822.2	6609.0	6241.0	5825.8	5406.1	4957.3	4544.4	4297.5	4084.3	4070.9
15°	6914.2	6781.8	6442.9	5951.5	5401.7	4820.4	4210.0	3671.4	3305.6	3096.9	3079.0
17.5°	6909.7	6730.2	6256.7	5621.6	4885.5	4093.3	3287.7	2704.2	2399.0	2271.1	2275.6
20°	6909.7	6671.8	6056.9	5242.3	4290.8	3222.6	2412.5	1988.3	1912.0	1918.7	1925.5
22.5°	6889.5	6600.0	5834.8	4829.4	3628.8	2369.8	1779.6	1636.0	1676.4	1739.2	1748.2
25°	6842.4	6481.1	5576.7	4371.6	2841.1	1725.7	1452.0	1425.0	1499.1	1577.6	1600.1
27.5°	6768.3	6344.2	5287.2	3835.2	2091.5	1386.9	1276.9	1274.7	1333.0	1391.4	1411.6
30°	6689.8	6191.6	4982.0	3238.3	1514.8	1207.3	1164.7	1164.7	1193.9	1229.8	1225.3
32.5°	6597.8	6036.7	4654.4	2616.7	1234.3	1106.4	1092.9	1086.2	1090.7	1104.1	1104.1
35°	6519.2	5899.8	4317.7	1959.1	1106.4	1050.3	1036.8	1021.1	1014.4	1005.4	1009.9
37.5°	6490.1	5792.1	3969.9	1476.6	1043.5	1009.9	987.4	965.0	949.3	944.8	942.5
40°	6537.2	5747.2	3622.0	1216.3	998.6	967.2	942.5	913.4	899.9	899.9	899.9
42.5°	6721.2	5780.9	3267.5	1099.6	967.2	931.3	895.4	868.5	864.0	868.5	870.7
45°	7057.8	5911.1	2899.4	1041.3	940.3	895.4	852.8	832.6	832.6	837.1	837.1
47.5°	7659.3	6252.2	2535.9	1005.4	913.4	866.2	821.4	801.2	798.9	803.4	803.4
50°	8700.5	6867.1	2208.2	980.7	893.2	843.8	798.9	772.0	765.3	763.0	763.0
52.5°	10013.4	7933.0	1999.5	962.7	868.5	819.1	774.2	738.3	724.9	718.1	718.1
55°	11600.0	9353.6	1999.5	949.3	837.1	789.9	738.3	702.4	682.2	673.2	673.2
57.5°	13397.5	11007.5	2345.1	938.1	812.4	756.3	700.2	664.3	641.8	628.4	628.4
60°	15226.5	12755.7	3200.1	922.3	789.9	713.6	657.5	623.9	594.7	579.0	576.7
62.5°	17122.8	14681.2	4326.7	931.3	774.2	673.2	612.7	574.5	549.8	534.1	531.9
65°	18859.8	16514.6	5311.9	1000.9	776.5	637.3	561.0	527.4	507.2	487.0	484.7
67.5°	20334.2	17526.8	4620.7	1142.3	823.6	594.7	509.4	475.8	457.8	444.3	442.1
70°	19301.9	15982.8	2621.2	1229.8	888.7	549.8	451.1	428.6	410.7	401.7	399.5
72.5°	16505.7	13532.2	1752.7	1086.2	810.1	491.5	397.2	379.3	365.8	354.6	352.3
75°	13370.6	10731.5	1339.8	890.9	630.6	399.5	341.1	327.6	314.2	303.0	300.7
77.5°	7910.6	6200.6	987.4	704.7	444.3	311.9	282.8	271.5	258.1	249.1	246.9
80°	2524.7	2154.4	626.1	484.7	294.0	240.1	217.7	208.7	195.2	184.0	181.8
82.5°	962.7	832.6	332.1	246.9	195.2	163.8	145.9	136.9	127.9	116.7	114.5
85°	426.4	399.5	184.0	132.4	105.5	80.8	71.8	67.3	56.1	47.1	44.9
87.5°	150.4	150.4	78.5	38.2	22.4	11.2	6.7	2.2	0.0	0.0	0.0
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)