

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: P642172

Luminaire Tested: GWS-SA6C-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27954.4 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

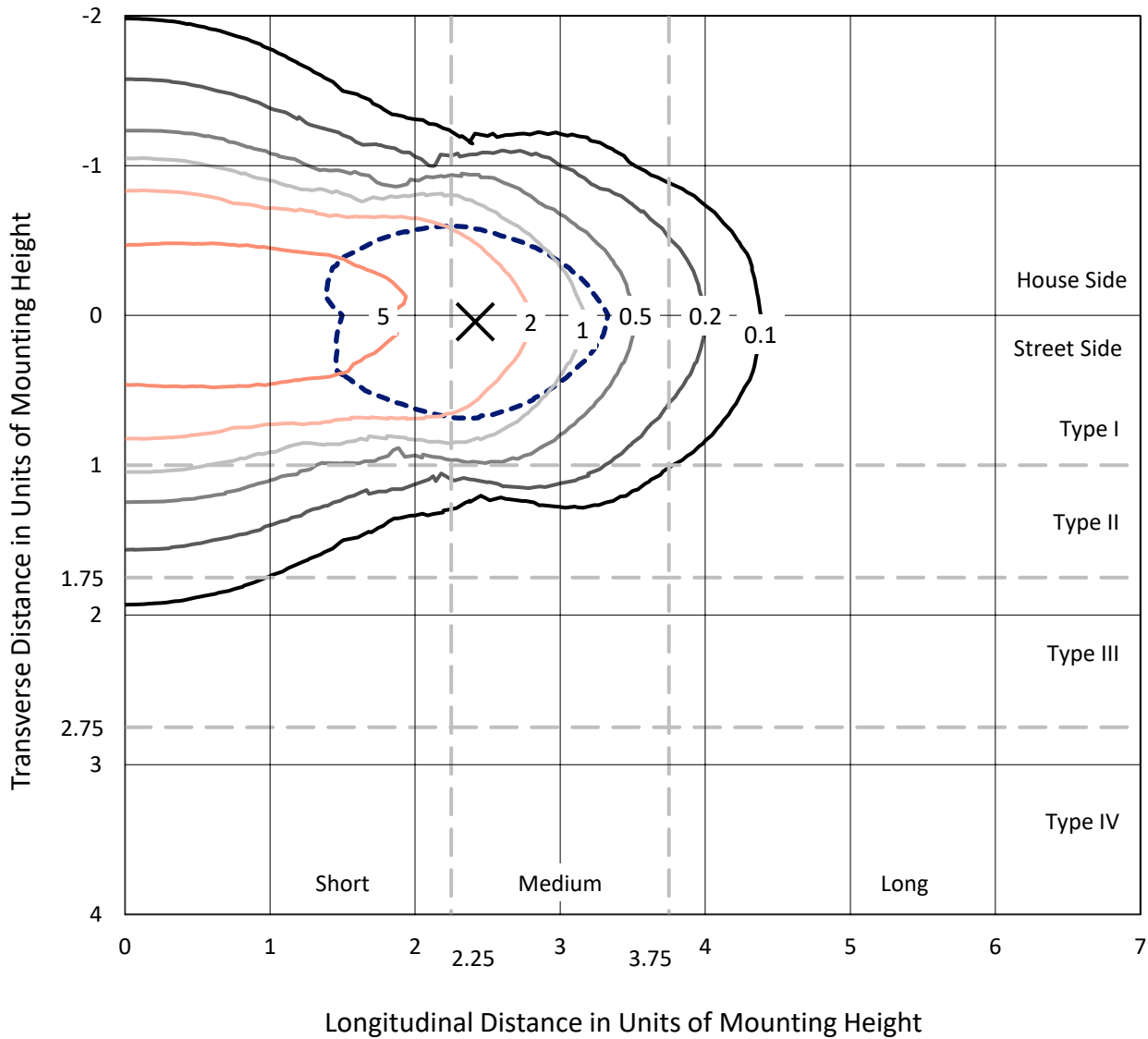
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642172
 CATALOG NUMBER: GWS-SA6C-735-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

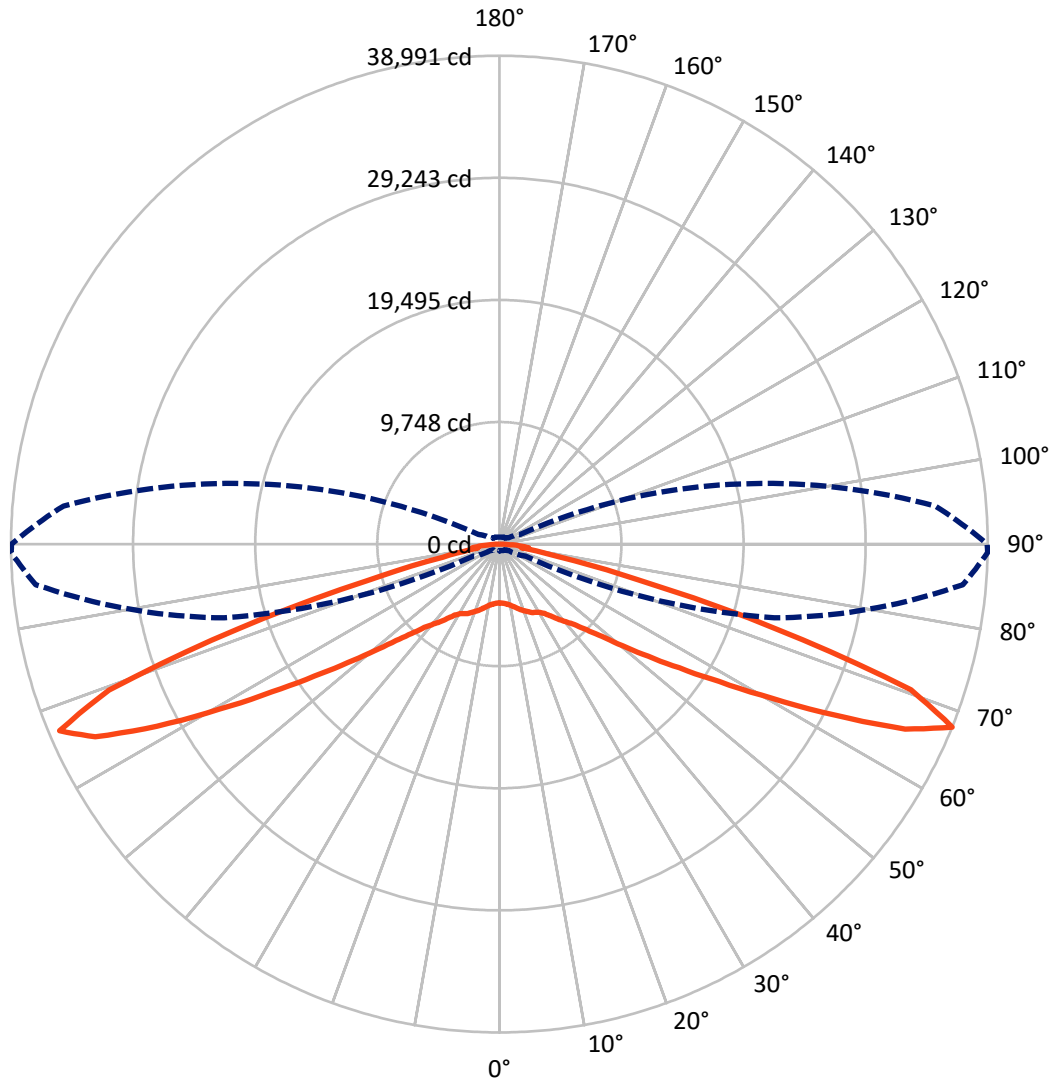
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type I - Medium - N/A

REPORT NUMBER: P642172
CATALOG NUMBER: GWS-SA6C-735-U-T1-W

Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P642172

CATALOG NUMBER: GWS-SA6C-735-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13854.7	0.0	13854.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14099.7	0.0	14099.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	27954.4	0.0	27954.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.6	1.7
10°-20°	1532.5	5.5
20°-30°	2590.6	9.3
30°-40°	3555.2	12.7
40°-50°	4533.7	16.2
50°-60°	5688.2	20.3
60°-70°	6860.4	24.5
70°-80°	2481.9	8.9
80°-90°	241.4	0.9
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°	27954.4	100.0
0°-180°	27954.4	100.0

Coefficient of Utilization



REPORT NUMBER: P642172

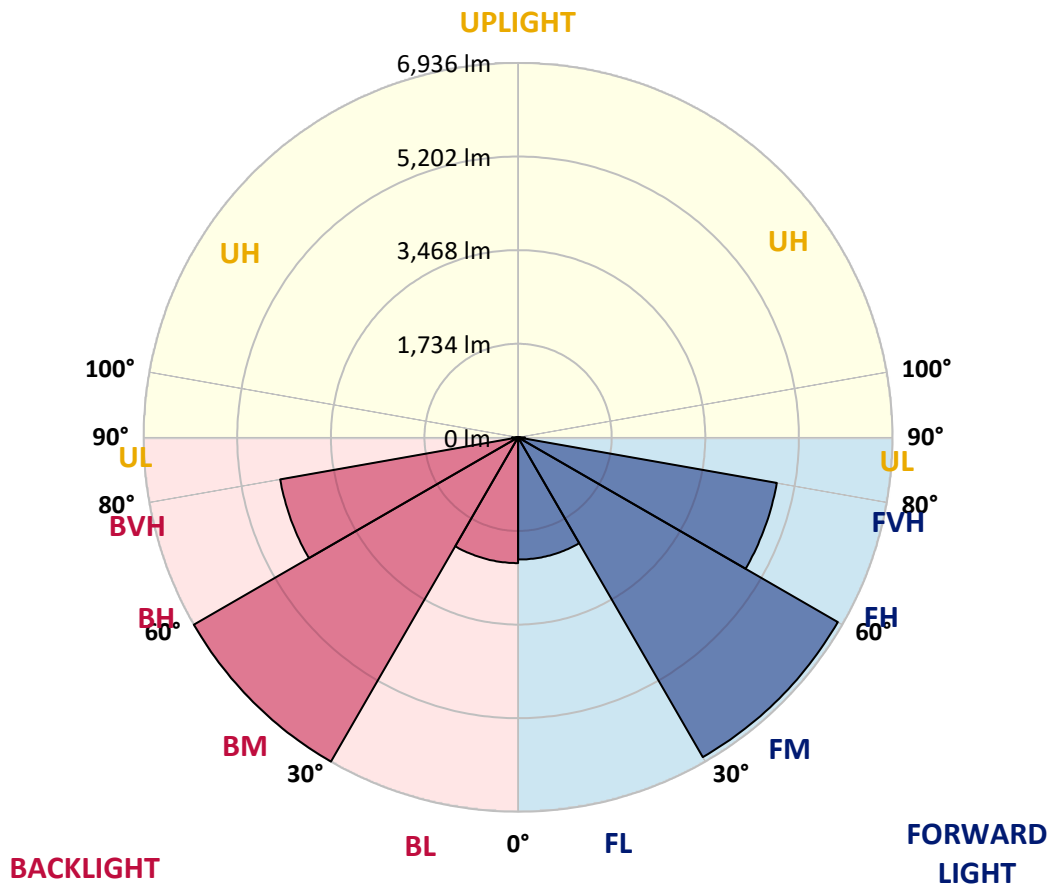
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.1	8.1			
FM (30°-60°)	6841.0	24.5			
FH (60°-80°)	4867.3	17.4			G2/5000
FVH (80°-90°)	127.4	0.5			G2/225
BL (0°-30°)	2329.6	8.3	B3/2500		
BM (30°-60°)	6936.1	24.8	B4/8500		
BH (60°-80°)	4475.1	16.0	B4/5000		G4/5000
BVH (80°-90°)	114.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





REPORT NUMBER: P642172
 CATALOG NUMBER: GWS-SA6C-735-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9
2.5°	4706.0	4702.0	4691.9	4722.0	4716.0	4718.0	4730.1	4722.0	4708.0	4683.9	4718.0
5°	4838.5	4836.5	4814.4	4832.5	4812.4	4798.3	4796.3	4776.2	4760.2	4734.1	4770.2
7.5°	4967.0	4965.0	4946.9	4979.0	4963.0	4946.9	4928.8	4888.7	4850.5	4812.4	4852.5
10°	5065.3	5063.3	5059.3	5105.5	5109.5	5115.5	5107.5	5039.2	4973.0	4926.8	4967.0
12.5°	5121.6	5127.6	5137.6	5221.9	5264.1	5304.3	5314.3	5258.1	5147.7	5081.4	5129.6
15°	5083.4	5095.5	5145.7	5298.2	5414.7	5505.0	5543.2	5497.0	5354.5	5244.0	5298.2
17.5°	4900.7	4910.8	5009.1	5242.0	5499.0	5707.8	5770.0	5741.9	5583.3	5448.8	5501.0
20°	4647.8	4669.8	4776.2	5101.5	5484.9	5848.3	6015.0	6004.9	5832.3	5625.5	5687.7
22.5°	4418.9	4445.0	4557.4	4916.8	5390.6	5884.5	6261.9	6288.0	6059.1	5802.2	5852.4
25°	4161.9	4186.0	4330.5	4697.9	5228.0	5856.4	6472.7	6591.2	6316.1	6004.9	6051.1
27.5°	3898.9	3917.0	4059.5	4451.0	5015.2	5804.2	6639.4	6924.4	6569.1	6145.5	6177.6
30°	3668.0	3692.1	3822.6	4204.1	4782.3	5699.8	6775.9	7279.8	6860.2	6304.1	6330.2
32.5°	3445.2	3465.2	3607.8	3961.1	4535.3	5539.2	6898.3	7697.4	7291.9	6599.2	6599.2
35°	3164.1	3200.2	3360.8	3728.2	4302.4	5326.3	6986.7	8183.3	7882.1	7034.9	7036.9
37.5°	2905.1	2925.2	3093.8	3465.2	4057.5	5085.4	6994.7	8687.2	8629.0	7589.0	7593.0
40°	2610.0	2636.1	2816.8	3184.2	3776.4	4832.5	6918.4	9157.0	9411.9	8159.2	8137.1
42.5°	2310.8	2349.0	2521.6	2881.0	3473.3	4523.3	6715.7	9604.7	10405.7	8819.7	8765.5
45°	2021.7	2045.8	2218.5	2557.8	3125.9	4153.9	6390.4	10034.3	11586.3	9823.5	9745.2
47.5°	1696.5	1706.5	1885.2	2210.4	2766.6	3742.3	5924.6	10417.8	12883.2	11152.6	11018.1
50°	1407.4	1421.4	1562.0	1841.0	2326.9	3254.4	5344.4	10642.6	14535.5	12965.5	12732.6
52.5°	1138.3	1152.4	1264.8	1487.7	1923.3	2698.3	4625.7	10590.5	16211.9	15216.1	14876.8
55°	919.5	929.6	1005.8	1180.5	1513.8	2146.2	3776.4	10122.7	18073.0	18155.3	17424.6
57.5°	777.0	781.0	833.2	939.6	1182.5	1654.3	2915.1	9018.4	20024.5	21905.7	20705.1
60°	694.7	696.7	720.8	787.0	933.6	1262.8	2136.2	7259.7	22046.2	26597.6	24951.3
62.5°	642.5	642.5	662.5	700.7	775.0	971.7	1570.0	5213.9	23497.7	31703.1	30066.8
65°	592.3	592.3	606.3	638.4	678.6	793.0	1178.5	3362.8	24210.5	35971.4	35608.0
67.5°	528.0	530.0	540.1	574.2	610.3	662.5	893.4	2274.7	22730.8	37151.9	38990.9
70°	467.8	469.8	483.8	505.9	536.0	572.2	698.7	1568.0	16545.2	30942.2	34863.2
72.5°	401.5	409.6	419.6	443.7	461.8	487.9	570.2	1015.9	9626.8	19904.0	23046.0
75°	329.3	339.3	351.3	375.4	387.5	397.5	469.8	724.8	4631.7	10086.5	11485.9
77.5°	255.0	265.0	279.1	301.2	309.2	321.2	359.4	524.0	2218.5	4471.1	4820.4
80°	170.7	174.7	186.7	212.8	226.9	234.9	265.0	357.4	963.7	1794.9	1778.8
82.5°	104.4	106.4	110.4	126.5	132.5	140.5	172.7	218.8	459.8	2039.8	2338.9
85°	38.1	36.1	34.1	44.2	52.2	60.2	80.3	110.4	200.8	1401.4	1568.0
87.5°	0.0	0.0	0.0	2.0	4.0	4.0	8.0	16.1	48.2	524.0	359.4
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: P642172
 CATALOG NUMBER: GWS-SA6C-735-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9	4691.9
2.5°	4708.0	4685.9	4714.0	4734.1	4778.3	4794.3	4798.3	4784.3	4784.3	4760.2	4764.2
5°	4762.2	4748.1	4794.3	4828.4	4892.7	4916.8	4932.8	4922.8	4928.8	4912.8	4916.8
7.5°	4844.5	4832.5	4912.8	4979.0	5045.3	5073.4	5087.4	5079.4	5081.4	5061.3	5067.4
10°	4958.9	4963.0	5059.3	5145.7	5234.0	5262.1	5268.1	5244.0	5224.0	5187.8	5189.8
12.5°	5115.5	5135.6	5272.1	5368.5	5458.9	5499.0	5454.8	5366.5	5284.2	5221.9	5213.9
15°	5286.2	5322.3	5519.1	5641.5	5739.9	5719.8	5589.3	5390.6	5228.0	5135.6	5117.5
17.5°	5491.0	5545.2	5792.1	5938.7	6023.0	5894.5	5621.5	5324.3	5097.5	4973.0	4948.9
20°	5683.7	5770.0	6081.2	6272.0	6282.0	5992.9	5607.4	5189.8	4904.7	4752.2	4720.0
22.5°	5860.4	5970.8	6384.4	6627.3	6496.8	6037.1	5521.1	4999.1	4671.8	4493.2	4465.1
25°	6053.1	6209.7	6737.7	6964.6	6711.6	6019.0	5340.4	4762.2	4390.8	4208.1	4188.0
27.5°	6185.6	6382.4	7093.1	7309.9	6888.3	5916.6	5107.5	4503.2	4133.8	3961.1	3933.0
30°	6338.2	6589.2	7484.6	7685.4	6996.7	5766.0	4858.6	4262.3	3894.9	3708.2	3688.1
32.5°	6615.3	6930.5	7970.4	8082.9	7030.9	5579.3	4619.6	4029.4	3645.9	3459.2	3431.1
35°	7061.0	7430.4	8653.1	8526.6	7004.8	5374.5	4392.8	3756.3	3391.0	3216.3	3188.2
37.5°	7623.1	8082.9	9414.0	8926.1	6932.5	5149.7	4123.8	3527.5	3162.1	2985.4	2969.3
40°	8147.1	8713.3	10267.2	9271.4	6785.9	4872.6	3864.8	3288.6	2915.1	2728.4	2692.3
42.5°	8803.6	9556.5	11255.0	9570.6	6545.0	4541.3	3573.6	2993.4	2606.0	2437.3	2393.1
45°	9801.4	10737.0	12403.4	9857.7	6185.6	4133.8	3208.3	2634.1	2266.7	2094.0	2059.9
47.5°	11046.2	12212.6	13648.1	10028.3	5639.5	3704.1	2794.7	2254.6	1887.2	1692.5	1676.4
50°	12794.9	14358.8	14983.2	9998.2	5029.2	3194.2	2328.9	1802.9	1495.7	1355.2	1333.1
52.5°	14925.0	17053.1	16426.7	9636.8	4380.7	2614.0	1814.9	1415.4	1186.5	1086.1	1068.1
55°	17597.2	20279.5	17946.5	8861.8	3561.6	2001.6	1425.4	1116.3	959.7	899.4	891.4
57.5°	20905.9	24457.4	19410.1	7556.9	2678.2	1527.8	1098.2	921.5	847.2	811.1	809.1
60°	25272.5	28892.4	20681.0	5872.4	1917.3	1168.5	907.5	823.1	764.9	740.8	738.8
62.5°	30464.4	32919.7	21472.0	3999.3	1441.5	931.6	799.1	746.9	712.7	698.7	696.7
65°	35800.7	35465.5	21094.6	2620.0	1094.2	791.0	716.7	688.6	658.5	644.5	644.5
67.5°	38952.8	34927.4	18197.5	1818.9	867.3	694.7	646.5	620.4	570.2	558.1	558.1
70°	34501.8	28302.1	11927.6	1331.1	702.7	608.3	562.1	526.0	505.9	493.9	491.9
72.5°	22819.2	18416.3	6342.2	923.5	586.2	518.0	475.8	461.8	437.7	425.6	423.6
75°	11357.4	9672.9	3250.4	666.5	487.9	415.6	397.5	391.5	371.4	355.4	351.3
77.5°	4734.1	4306.4	1515.8	483.8	371.4	335.3	319.2	319.2	297.1	279.1	271.0
80°	1784.8	1590.1	716.7	331.3	275.1	249.0	238.9	230.9	212.8	190.7	178.7
82.5°	2387.1	1560.0	351.3	206.8	180.7	160.6	146.6	140.5	130.5	120.5	112.4
85°	1545.9	1108.2	158.6	106.4	90.3	68.3	60.2	56.2	50.2	44.2	40.2
87.5°	315.2	371.4	48.2	20.1	12.0	6.0	6.0	2.0	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)