

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: P638707

Luminaire Tested: GWS-SA4F-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638707
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-SA4F-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33496.9 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

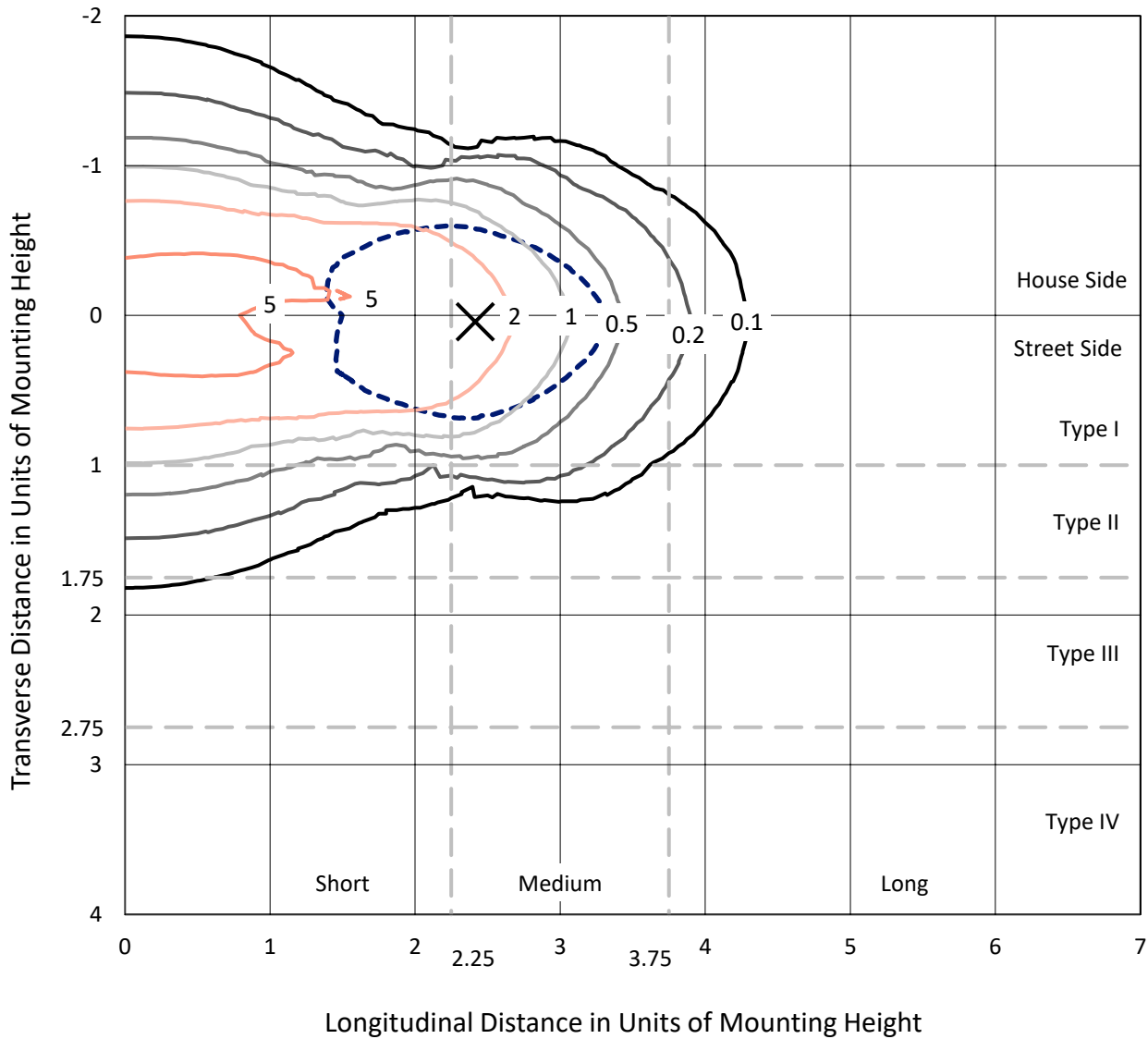
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638707
 CATALOG NUMBER: GWS-SA4F-735-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

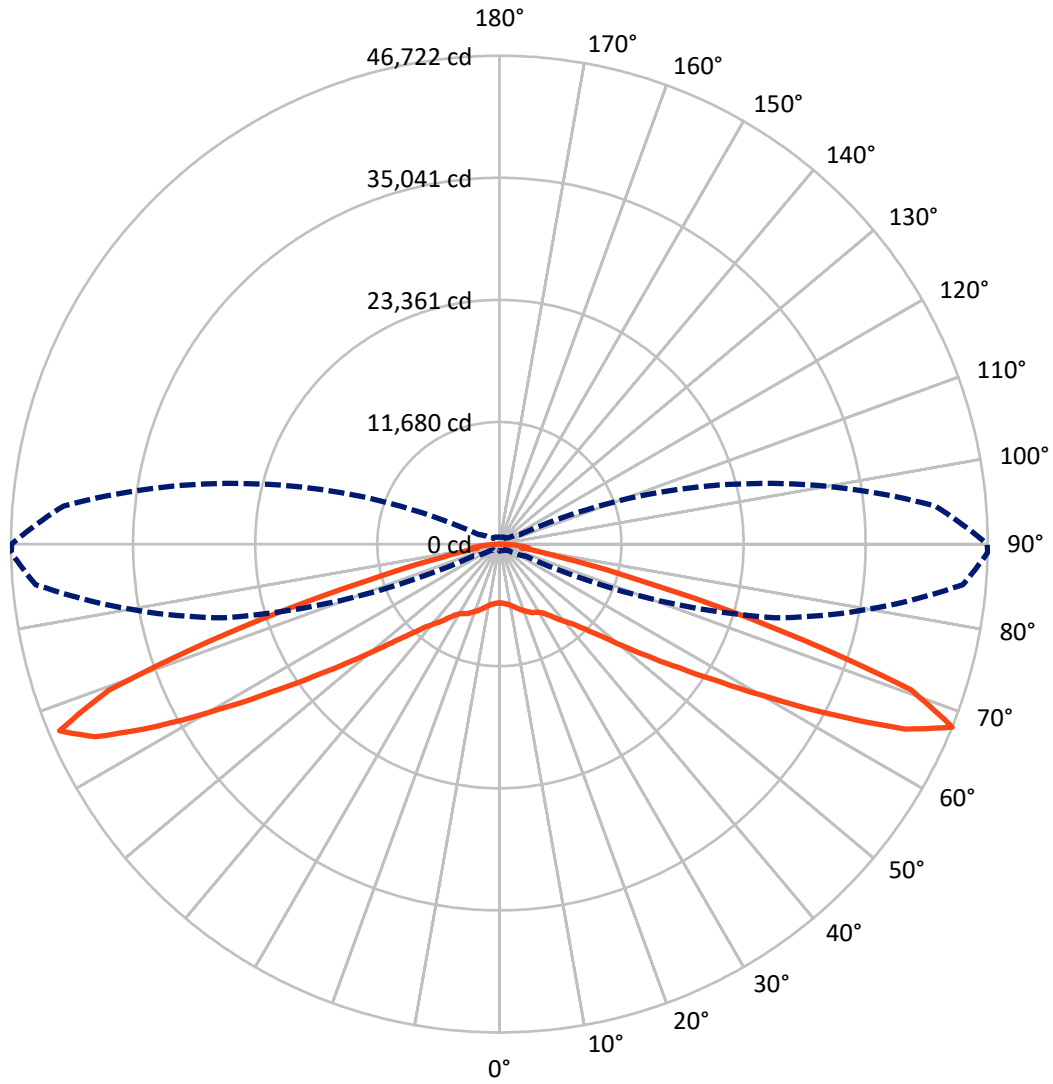
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type I - Medium - N/A

REPORT NUMBER: P638707
CATALOG NUMBER: GWS-SA4F-735-U-T1-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638707

CATALOG NUMBER: GWS-SA4F-735-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16601.7	0.0	16601.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	16895.2	0.0	16895.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	33496.9	0.0	33496.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.9	1.7
10°-20°	1836.3	5.5
20°-30°	3104.2	9.3
30°-40°	4260.1	12.7
40°-50°	5432.6	16.2
50°-60°	6816.0	20.3
60°-70°	8220.6	24.5
70°-80°	2974.0	8.9
80°-90°	289.2	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°	33496.9	100.0
0°-180°	33496.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638707

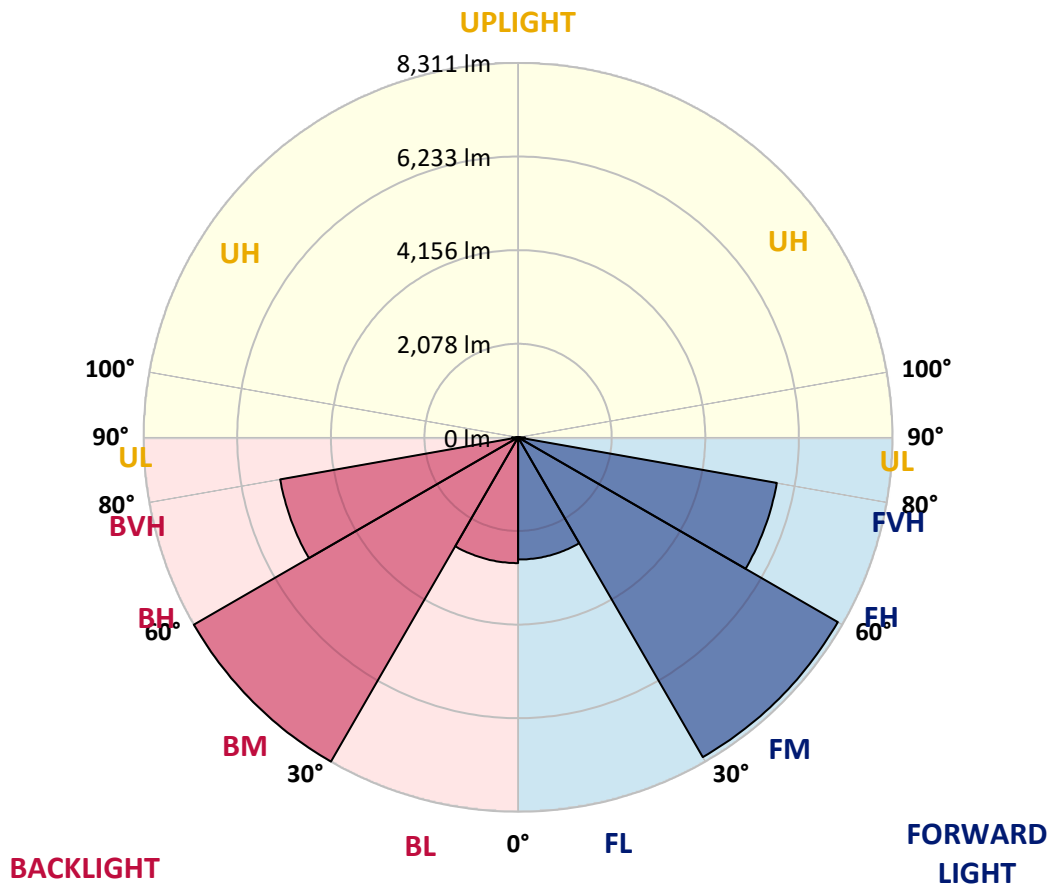
CATALOG NUMBER: GWS-SA4F-735-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2713.0	8.1			
FM (30°-60°)	8197.3	24.5			
FH (60°-80°)	5832.3	17.4			G3/7500
FVH (80°-90°)	152.6	0.5			G2/225
BL (0°-30°)	2791.4	8.3	B4/5000		
BM (30°-60°)	8311.3	24.8	B4/8500		
BH (60°-80°)	5362.3	16.0	B5		G5
BVH (80°-90°)	136.6	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 I Medium





REPORT NUMBER: P638707
 CATALOG NUMBER: GWS-SA4F-735-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2
2.5°	5639.0	5634.2	5622.2	5658.3	5651.1	5653.5	5667.9	5658.3	5641.4	5612.6	5653.5
5°	5797.8	5795.4	5768.9	5790.6	5766.5	5749.7	5747.3	5723.2	5704.0	5672.7	5716.0
7.5°	5951.8	5949.4	5927.7	5966.2	5947.0	5927.7	5906.1	5857.9	5812.2	5766.5	5814.6
10°	6069.7	6067.2	6062.4	6117.8	6122.6	6129.8	6120.2	6038.4	5959.0	5903.7	5951.8
12.5°	6137.0	6144.2	6156.3	6257.3	6307.8	6355.9	6368.0	6300.6	6168.3	6088.9	6146.6
15°	6091.3	6105.7	6165.9	6348.7	6488.2	6596.5	6642.2	6586.9	6416.1	6283.8	6348.7
17.5°	5872.4	5884.4	6002.3	6281.4	6589.3	6839.5	6914.1	6880.4	6690.3	6529.1	6591.7
20°	5569.3	5595.7	5723.2	6113.0	6572.4	7007.9	7207.6	7195.5	6988.6	6740.8	6815.4
22.5°	5295.0	5326.3	5461.0	5891.6	6459.4	7051.2	7503.5	7534.7	7260.5	6952.6	7012.7
25°	4987.1	5015.9	5189.2	5629.4	6264.5	7017.5	7756.1	7898.0	7568.4	7195.5	7250.9
27.5°	4671.9	4693.6	4864.4	5333.5	6009.5	6955.0	7955.7	8297.4	7871.5	7363.9	7402.4
30°	4395.3	4424.1	4580.5	5037.6	5730.4	6829.9	8119.3	8723.2	8220.4	7554.0	7585.3
32.5°	4128.2	4152.3	4323.1	4746.5	5434.5	6637.4	8266.1	9223.6	8737.6	7907.6	7907.6
35°	3791.4	3834.7	4027.2	4467.4	5155.5	6382.4	8371.9	9805.7	9444.9	8429.7	8432.1
37.5°	3481.1	3505.1	3707.2	4152.3	4862.0	6093.7	8381.6	10409.6	10339.8	9093.6	9098.5
40°	3127.4	3158.7	3375.2	3815.5	4525.2	5790.6	8290.1	10972.5	11278.0	9776.9	9750.4
42.5°	2769.0	2814.7	3021.6	3452.2	4161.9	5420.1	8047.2	11509.0	12468.9	10568.4	10503.4
45°	2422.6	2451.4	2658.3	3064.9	3745.7	4977.4	7657.4	12023.8	13883.5	11771.2	11677.4
47.5°	2032.8	2044.9	2259.0	2648.7	3315.1	4484.3	7099.3	12483.3	15437.6	13363.8	13202.6
50°	1686.4	1703.3	1871.7	2206.1	2788.2	3899.7	6404.0	12752.8	17417.5	15536.2	15257.1
52.5°	1364.0	1380.9	1515.6	1782.6	2304.7	3233.3	5542.8	12690.2	19426.2	18233.0	17826.4
55°	1101.8	1113.9	1205.3	1414.6	1813.9	2571.7	4525.2	12129.7	21656.4	21755.0	20879.3
57.5°	931.0	935.8	998.4	1125.9	1417.0	1982.3	3493.1	10806.5	23994.7	26248.9	24810.3
60°	832.4	834.8	863.7	943.0	1118.7	1513.2	2559.7	8699.1	26417.3	31871.1	29898.4
62.5°	769.8	769.8	793.9	839.6	928.6	1164.4	1881.3	6247.7	28156.6	37988.8	36028.2
65°	709.7	709.7	726.5	765.0	813.1	950.3	1412.2	4029.6	29010.7	43103.4	42668.0
67.5°	632.7	635.1	647.1	688.0	731.3	793.9	1070.5	2725.7	27237.6	44518.0	46721.6
70°	560.5	562.9	579.8	606.2	642.3	685.6	837.2	1878.9	19825.6	37077.1	41775.5
72.5°	481.1	490.8	502.8	531.7	553.3	584.6	683.2	1217.3	11535.5	23850.4	27615.3
75°	394.5	406.6	421.0	449.9	464.3	476.3	562.9	868.5	5550.0	12086.4	13763.2
77.5°	305.5	317.6	334.4	360.9	370.5	384.9	430.6	627.9	2658.3	5357.6	5776.2
80°	204.5	209.3	223.7	255.0	271.8	281.5	317.6	428.2	1154.7	2150.7	2131.5
82.5°	125.1	127.5	132.3	151.6	158.8	168.4	206.9	262.2	550.9	2444.2	2802.7
85°	45.7	43.3	40.9	52.9	62.5	72.2	96.2	132.3	240.6	1679.2	1878.9
87.5°	0.0	0.0	0.0	2.4	4.8	4.8	9.6	19.2	57.7	627.9	430.6
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: P638707
 CATALOG NUMBER: GWS-SA4F-735-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2	5622.2
2.5°	5641.4	5615.0	5648.6	5672.7	5725.6	5744.9	5749.7	5732.8	5732.8	5704.0	5708.8
5°	5706.4	5689.5	5744.9	5785.8	5862.8	5891.6	5910.9	5898.8	5906.1	5886.8	5891.6
7.5°	5805.0	5790.6	5886.8	5966.2	6045.6	6079.3	6096.1	6086.5	6088.9	6064.8	6072.1
10°	5942.1	5947.0	6062.4	6165.9	6271.7	6305.4	6312.6	6283.8	6259.7	6216.4	6218.8
12.5°	6129.8	6153.9	6317.4	6432.9	6541.2	6589.3	6536.4	6430.5	6331.9	6257.3	6247.7
15°	6334.3	6377.6	6613.3	6760.1	6878.0	6853.9	6697.5	6459.4	6264.5	6153.9	6132.2
17.5°	6579.7	6644.6	6940.5	7116.1	7217.2	7063.2	6736.0	6380.0	6108.1	5959.0	5930.1
20°	6810.6	6914.1	7286.9	7515.5	7527.5	7181.1	6719.2	6218.8	5877.2	5694.4	5655.9
22.5°	7022.3	7154.6	7650.2	7941.3	7784.9	7234.0	6615.8	5990.3	5598.1	5384.0	5350.3
25°	7253.3	7440.9	8073.6	8345.5	8042.3	7212.4	6399.2	5706.4	5261.3	5042.4	5018.3
27.5°	7412.0	7647.8	8499.4	8759.3	8254.1	7089.7	6120.2	5396.0	4953.4	4746.5	4712.8
30°	7594.9	7895.6	8968.6	9209.1	8384.0	6909.2	5821.9	5107.4	4667.1	4443.4	4419.3
32.5°	7926.9	8304.6	9550.7	9685.5	8424.9	6685.5	5535.6	4828.3	4368.8	4145.1	4111.4
35°	8460.9	8903.6	10368.7	10217.1	8393.6	6440.1	5263.7	4501.1	4063.3	3854.0	3820.3
37.5°	9134.5	9685.5	11280.5	10695.9	8307.0	6170.7	4941.4	4226.9	3789.0	3577.3	3558.1
40°	9762.4	10440.9	12302.9	11109.6	8131.4	5838.7	4631.0	3940.6	3493.1	3269.4	3226.1
42.5°	10549.1	11451.3	13486.5	11468.1	7842.7	5441.8	4282.2	3586.9	3122.6	2920.6	2867.6
45°	11744.8	12865.8	14862.6	11812.1	7412.0	4953.4	3844.4	3156.3	2716.1	2509.2	2468.3
47.5°	13236.3	14634.0	16354.1	12016.6	6757.7	4438.6	3348.8	2701.6	2261.4	2028.0	2008.8
50°	15331.7	17205.8	17953.9	11980.5	6026.3	3827.5	2790.6	2160.3	1792.3	1623.9	1597.4
52.5°	17884.2	20434.2	19683.7	11547.5	5249.3	3132.3	2174.8	1696.0	1421.8	1301.5	1279.8
55°	21086.2	24300.3	21504.8	10618.9	4267.8	2398.5	1708.1	1337.6	1149.9	1077.8	1068.1
57.5°	25050.8	29306.6	23258.6	9055.2	3209.2	1830.8	1315.9	1104.2	1015.2	971.9	969.5
60°	30283.3	34620.8	24781.4	7036.8	2297.5	1400.1	1087.4	986.3	916.6	887.7	885.3
62.5°	36504.5	39446.7	25729.3	4792.2	1727.3	1116.3	957.5	894.9	854.0	837.2	834.8
65°	42898.9	42497.2	25277.0	3139.5	1311.1	947.9	858.8	825.2	789.1	772.2	772.2
67.5°	46675.9	41852.4	21805.5	2179.6	1039.3	832.4	774.6	743.4	683.2	668.8	668.8
70°	41342.4	33913.5	14292.4	1595.0	842.0	728.9	673.6	630.3	606.2	591.8	589.4
72.5°	27343.5	22067.7	7599.7	1106.6	702.5	620.7	570.2	553.3	524.4	510.0	507.6
75°	13609.2	11590.8	3894.9	798.7	584.6	498.0	476.3	469.1	445.1	425.8	421.0
77.5°	5672.7	5160.3	1816.3	579.8	445.1	401.8	382.5	382.5	356.0	334.4	324.8
80°	2138.7	1905.3	858.8	396.9	329.6	298.3	286.3	276.7	255.0	228.5	214.1
82.5°	2860.4	1869.3	421.0	247.8	216.5	192.5	175.6	168.4	156.4	144.3	134.7
85°	1852.4	1328.0	190.1	127.5	108.3	81.8	72.2	67.4	60.1	52.9	48.1
87.5°	377.7	445.1	57.7	24.1	14.4	7.2	7.2	2.4	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)