

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: P638872

Luminaire Tested: GWS-SA4F-760-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638872  
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-760-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

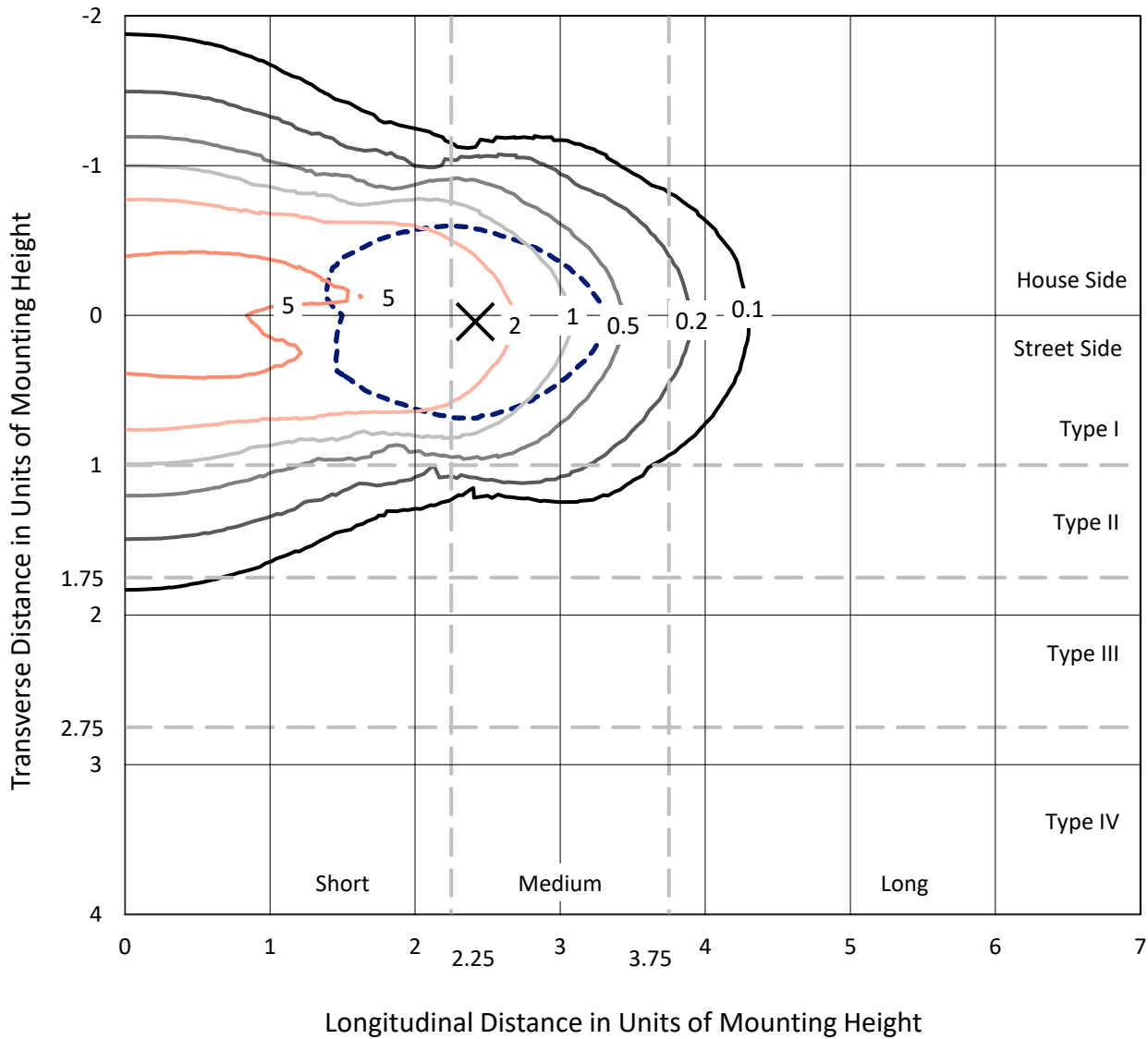
Lumens per Lamp: N/A  
Luminaire Lumens: 34264.5 lumens  
Efficiency: N/A  
Efficacy: 152.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P638872  
 CATALOG NUMBER: GWS-SA4F-760-U-T1-W

### Iso-Footcandle Lines of Horizontal Illumination

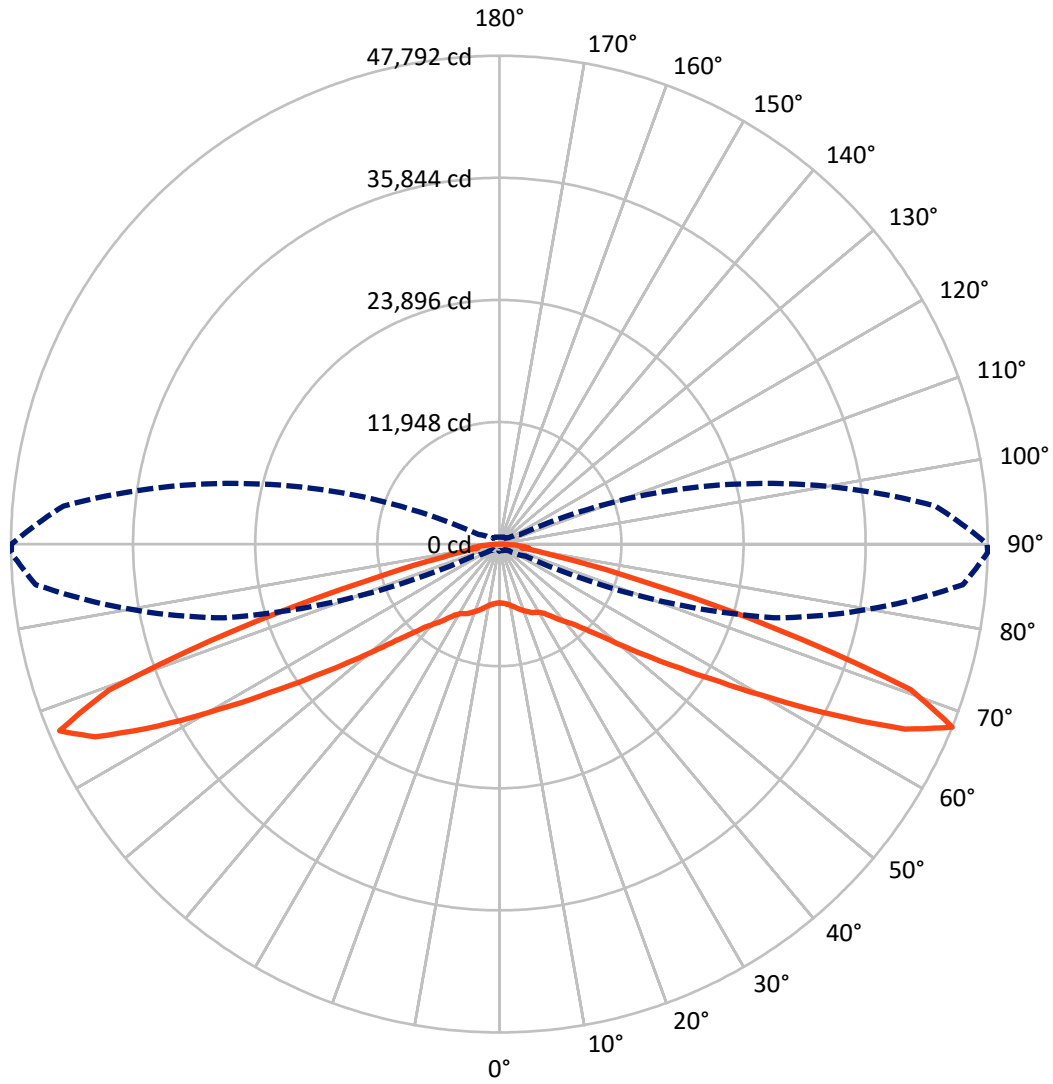
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type I - Medium - N/A

REPORT NUMBER: P638872  
CATALOG NUMBER: GWS-SA4F-760-U-T1-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638872

CATALOG NUMBER: GWS-SA4F-760-U-T1-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16982.1	0.0	16982.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	17282.4	0.0	17282.4
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	34264.5	0.0	34264.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.9	1.7
10°-20°	1878.4	5.5
20°-30°	3175.3	9.3
30°-40°	4357.7	12.7
40°-50°	5557.0	16.2
50°-60°	6972.2	20.3
60°-70°	8409.0	24.5
70°-80°	3042.1	8.9
80°-90°	295.8	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°	34264.5	100.0
0°-180°	34264.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638872

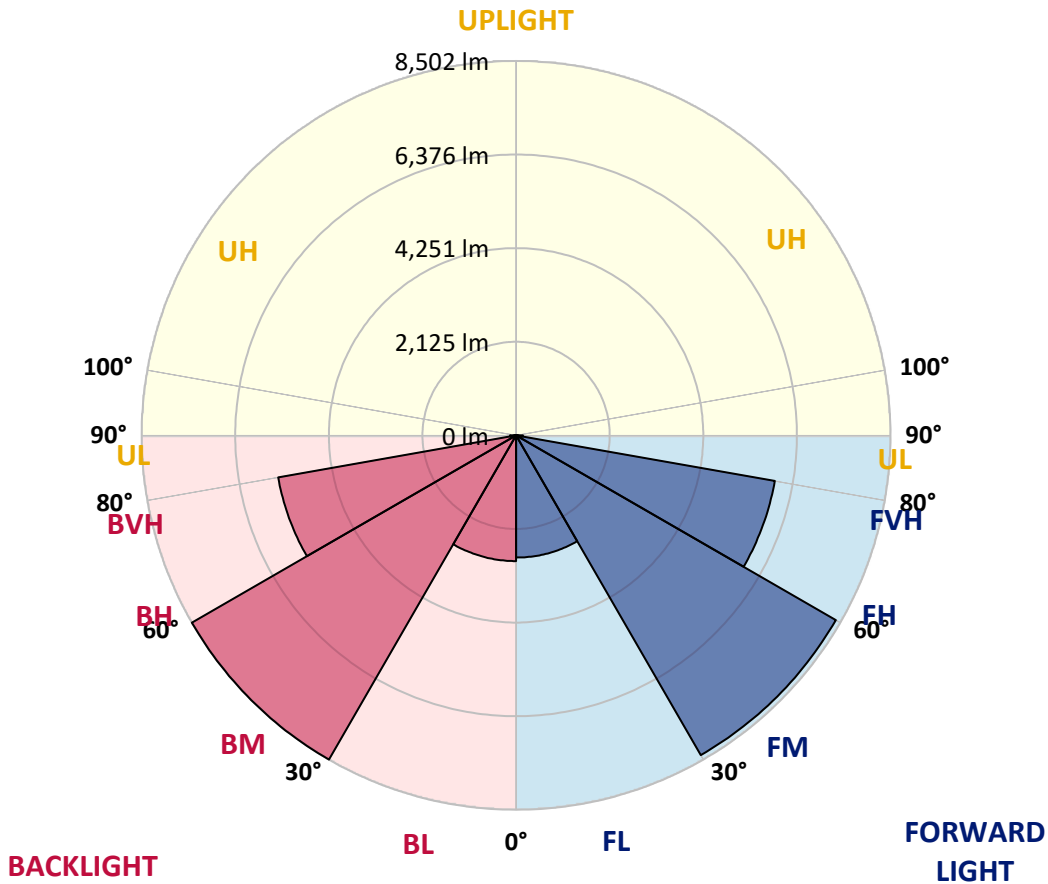
CATALOG NUMBER: GWS-SA4F-760-U-T1-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2775.2	8.1			
FM (30°-60°)	8385.2	24.5			
FH (60°-80°)	5966.0	17.4			G3/7500
FVH (80°-90°)	156.1	0.5			G2/225
BL (0°-30°)	2855.4	8.3	B4/5000		
BM (30°-60°)	8501.7	24.8	B5		
BH (60°-80°)	5485.2	16.0	B5		G5
BVH (80°-90°)	139.7	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: P638872  
 CATALOG NUMBER: GWS-SA4F-760-U-T1-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0
2.5°	5768.2	5763.3	5751.0	5787.9	5780.6	5783.0	5797.8	5787.9	5770.7	5741.2	5783.0
5°	5930.7	5928.2	5901.1	5923.3	5898.7	5881.4	5879.0	5854.4	5834.7	5802.7	5847.0
7.5°	6088.2	6085.7	6063.5	6102.9	6083.2	6063.5	6041.4	5992.2	5945.4	5898.7	5947.9
10°	6208.7	6206.3	6201.4	6258.0	6262.9	6270.3	6260.4	6176.7	6095.5	6038.9	6088.2
12.5°	6277.6	6285.0	6297.3	6400.7	6452.4	6501.6	6513.9	6445.0	6309.6	6228.4	6287.5
15°	6230.9	6245.7	6307.2	6494.2	6636.9	6747.7	6794.4	6737.8	6563.1	6427.8	6494.2
17.5°	6006.9	6019.3	6139.8	6425.3	6740.3	6996.2	7072.5	7038.0	6843.6	6678.8	6742.7
20°	5696.9	5724.0	5854.4	6253.0	6723.1	7168.5	7372.7	7360.4	7148.8	6895.3	6971.6
22.5°	5416.3	5448.3	5586.1	6026.6	6607.4	7212.8	7675.4	7707.4	7426.9	7111.9	7173.4
25°	5101.4	5130.9	5308.1	5758.4	6408.1	7178.3	7933.8	8079.0	7741.9	7360.4	7417.0
27.5°	4779.0	4801.1	4975.9	5455.7	6147.2	7114.3	8138.1	8487.5	8051.9	7532.7	7572.1
30°	4496.0	4525.5	4685.5	5153.0	5861.8	6986.4	8305.4	8923.1	8408.7	7727.1	7759.1
32.5°	4222.8	4247.4	4422.2	4855.3	5559.1	6789.5	8455.5	9434.9	8937.8	8088.8	8088.8
35°	3878.3	3922.6	4119.5	4569.8	5273.6	6528.7	8563.8	10030.4	9661.3	8622.8	8625.3
37.5°	3560.9	3585.5	3792.2	4247.4	4973.4	6233.3	8573.6	10648.1	10576.8	9302.0	9307.0
40°	3199.1	3231.1	3452.6	3902.9	4628.9	5923.3	8480.1	11224.0	11536.5	10000.9	9973.8
42.5°	2832.4	2879.2	3090.8	3531.3	4257.3	5544.3	8231.6	11772.7	12754.6	10810.5	10744.1
45°	2478.1	2507.6	2719.2	3135.1	3831.6	5091.5	7832.9	12299.4	14201.6	12041.0	11945.0
47.5°	2079.4	2091.7	2310.7	2709.4	3391.1	4587.0	7262.0	12769.4	15791.3	13670.1	13505.2
50°	1725.1	1742.3	1914.5	2256.6	2852.1	3989.0	6550.8	13045.0	17816.6	15892.2	15606.7
52.5°	1395.3	1412.5	1550.3	1823.5	2357.5	3307.4	5669.8	12981.0	19871.4	18650.8	18234.9
55°	1127.1	1139.4	1232.9	1447.0	1855.5	2630.7	4628.9	12407.6	22152.6	22253.5	21357.8
57.5°	952.4	957.3	1021.3	1151.7	1449.4	2027.7	3573.2	11054.2	24544.6	26850.4	25378.8
60°	851.5	853.9	883.4	964.7	1144.3	1547.9	2618.4	8898.5	27022.7	32601.4	30583.5
62.5°	787.5	787.5	812.1	858.8	949.9	1191.1	1924.4	6390.8	28801.9	38859.4	36853.8
65°	726.0	726.0	743.2	782.6	831.8	972.0	1444.5	4121.9	29675.5	44091.2	43645.7
67.5°	647.2	649.7	662.0	703.8	748.1	812.1	1095.1	2788.1	27861.8	45538.1	47792.3
70°	573.4	575.8	593.1	620.1	657.0	701.3	856.4	1921.9	20279.9	37926.7	42732.8
72.5°	492.2	502.0	514.3	543.8	566.0	598.0	698.9	1245.2	11799.8	24396.9	28248.2
75°	403.6	415.9	430.6	460.2	474.9	487.2	575.8	888.4	5677.2	12363.3	14078.6
77.5°	312.5	324.8	342.1	369.1	379.0	393.7	440.5	642.3	2719.2	5480.3	5908.5
80°	209.2	214.1	228.9	260.9	278.1	287.9	324.8	438.0	1181.2	2200.0	2180.3
82.5°	128.0	130.4	135.3	155.0	162.4	172.3	211.6	268.2	563.5	2500.2	2866.9
85°	46.8	44.3	41.8	54.1	64.0	73.8	98.4	135.3	246.1	1717.7	1921.9
87.5°	0.0	0.0	0.0	2.5	4.9	4.9	9.8	19.7	59.1	642.3	440.5
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: P638872  
 CATALOG NUMBER: GWS-SA4F-760-U-T1-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0
2.5°	5770.7	5743.6	5778.1	5802.7	5856.8	5876.5	5881.4	5864.2	5864.2	5834.7	5839.6
5°	5837.2	5819.9	5876.5	5918.4	5997.1	6026.6	6046.3	6034.0	6041.4	6021.7	6026.6
7.5°	5938.0	5923.3	6021.7	6102.9	6184.1	6218.6	6235.8	6226.0	6228.4	6203.8	6211.2
10°	6078.3	6083.2	6201.4	6307.2	6415.5	6449.9	6457.3	6427.8	6403.1	6358.9	6361.3
12.5°	6270.3	6294.9	6462.2	6580.3	6691.1	6740.3	6686.1	6577.9	6477.0	6400.7	6390.8
15°	6479.4	6523.7	6764.9	6915.0	7035.6	7011.0	6851.0	6607.4	6408.1	6294.9	6272.7
17.5°	6730.4	6796.9	7099.6	7279.2	7382.6	7225.1	6890.4	6526.2	6248.1	6095.5	6066.0
20°	6966.7	7072.5	7453.9	7687.7	7700.0	7345.7	6873.2	6361.3	6011.9	5824.8	5785.5
22.5°	7183.2	7318.6	7825.5	8123.3	7963.3	7399.8	6767.4	6127.5	5726.4	5507.4	5472.9
25°	7419.5	7611.4	8258.6	8536.7	8226.6	7377.6	6545.9	5837.2	5381.9	5158.0	5133.3
27.5°	7581.9	7823.1	8694.2	8960.0	8443.2	7252.1	6260.4	5519.7	5066.9	4855.3	4820.8
30°	7768.9	8076.5	9174.1	9420.2	8576.1	7067.6	5955.3	5224.4	4774.1	4545.2	4520.6
32.5°	8108.5	8494.9	9769.6	9907.4	8617.9	6838.7	5662.4	4938.9	4468.9	4240.1	4205.6
35°	8654.8	9107.6	10606.3	10451.3	8585.9	6587.7	5384.4	4604.3	4156.4	3942.3	3907.8
37.5°	9343.9	9907.4	11539.0	10941.0	8497.3	6312.1	5054.6	4323.7	3875.8	3659.3	3639.6
40°	9986.2	10680.1	12584.8	11364.2	8317.7	5972.5	4737.1	4030.9	3573.2	3344.3	3300.0
42.5°	10790.9	11713.7	13795.6	11730.9	8022.4	5566.5	4380.3	3669.1	3194.2	2987.5	2933.3
45°	12013.9	13160.7	15203.2	12082.8	7581.9	5066.9	3932.4	3228.6	2778.3	2566.7	2524.8
47.5°	13539.6	14969.4	16728.9	12292.0	6912.5	4540.3	3425.5	2763.5	2313.2	2074.5	2054.8
50°	15683.0	17600.0	18365.4	12255.1	6164.4	3915.2	2854.6	2209.8	1833.3	1661.1	1634.0
52.5°	18294.0	20902.5	20134.7	11812.1	5369.6	3204.0	2224.6	1734.9	1454.4	1331.3	1309.2
55°	21569.4	24857.1	21997.6	10862.2	4365.6	2453.5	1747.2	1368.2	1176.3	1102.5	1092.6
57.5°	25624.9	29978.1	23791.6	9262.7	3282.8	1872.7	1346.1	1129.5	1038.5	994.2	991.7
60°	30977.3	35414.2	25349.3	7198.0	2350.1	1432.2	1112.3	1009.0	937.6	908.1	905.6
62.5°	37341.0	40350.7	26318.9	4902.0	1766.9	1141.8	979.4	915.4	873.6	856.4	853.9
65°	43882.0	43471.0	25856.2	3211.4	1341.2	969.6	878.5	844.1	807.2	789.9	789.9
67.5°	47745.5	42811.5	22305.2	2229.5	1063.1	851.5	792.4	760.4	698.9	684.1	684.1
70°	42289.8	34690.7	14619.9	1631.5	861.3	745.6	689.0	644.7	620.1	605.4	602.9
72.5°	27970.1	22573.4	7773.8	1132.0	718.6	634.9	583.2	566.0	536.5	521.7	519.2
75°	13921.1	11856.4	3984.1	817.0	598.0	509.4	487.2	479.9	455.3	435.6	430.6
77.5°	5802.7	5278.5	1857.9	593.1	455.3	411.0	391.3	391.3	364.2	342.1	332.2
80°	2187.7	1949.0	878.5	406.0	337.1	305.1	292.8	283.0	260.9	233.8	219.0
82.5°	2926.0	1912.1	430.6	253.5	221.5	196.9	179.6	172.3	160.0	147.7	137.8
85°	1894.9	1358.4	194.4	130.4	110.7	83.7	73.8	68.9	61.5	54.1	49.2
87.5°	386.4	455.3	59.1	24.6	14.8	7.4	7.4	2.5	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)