

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: P641182

Luminaire Tested: GWS-SA5F-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641182
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-SA5F-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41091.1 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

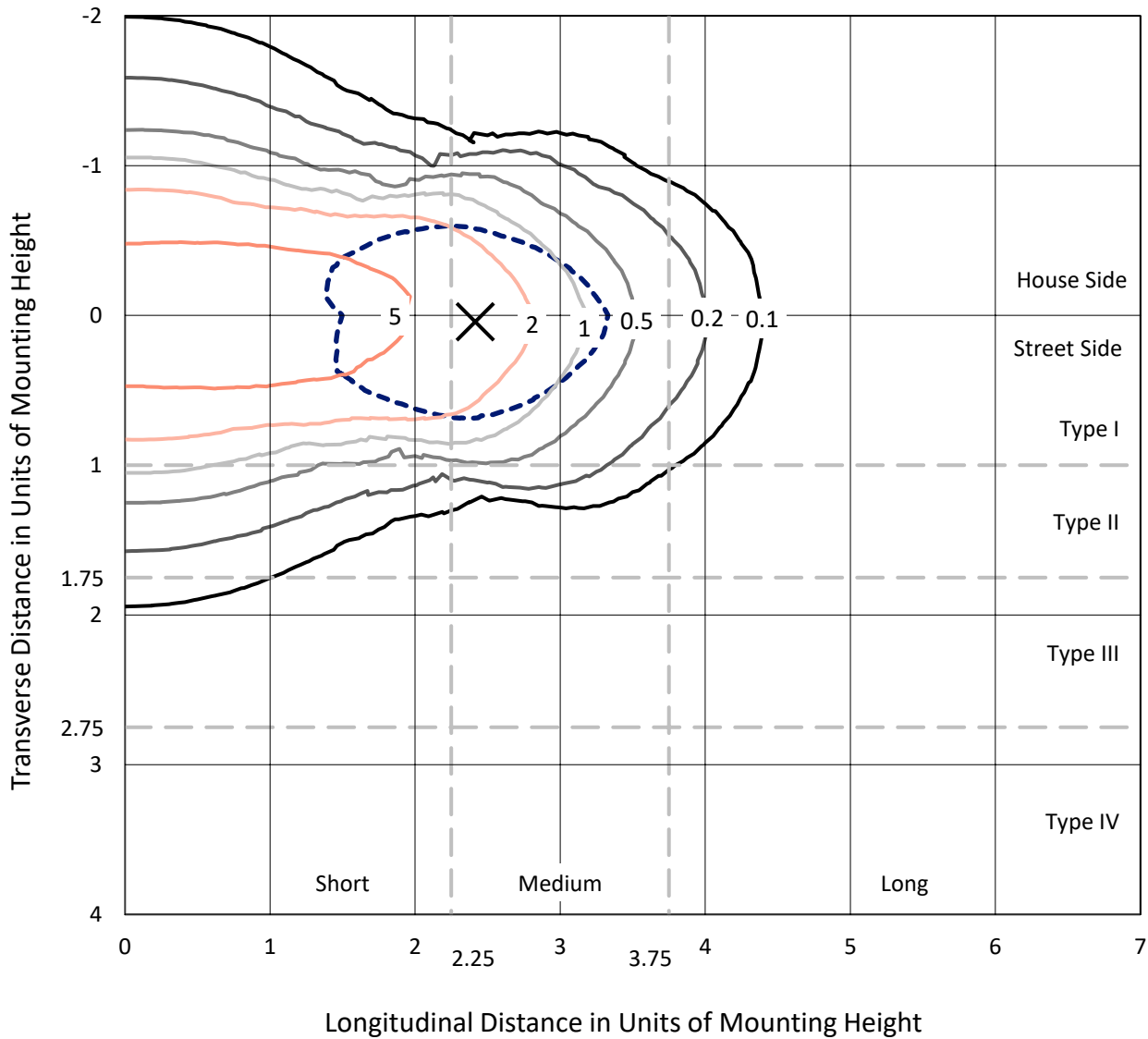
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641182
 CATALOG NUMBER: GWS-SA5F-735-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

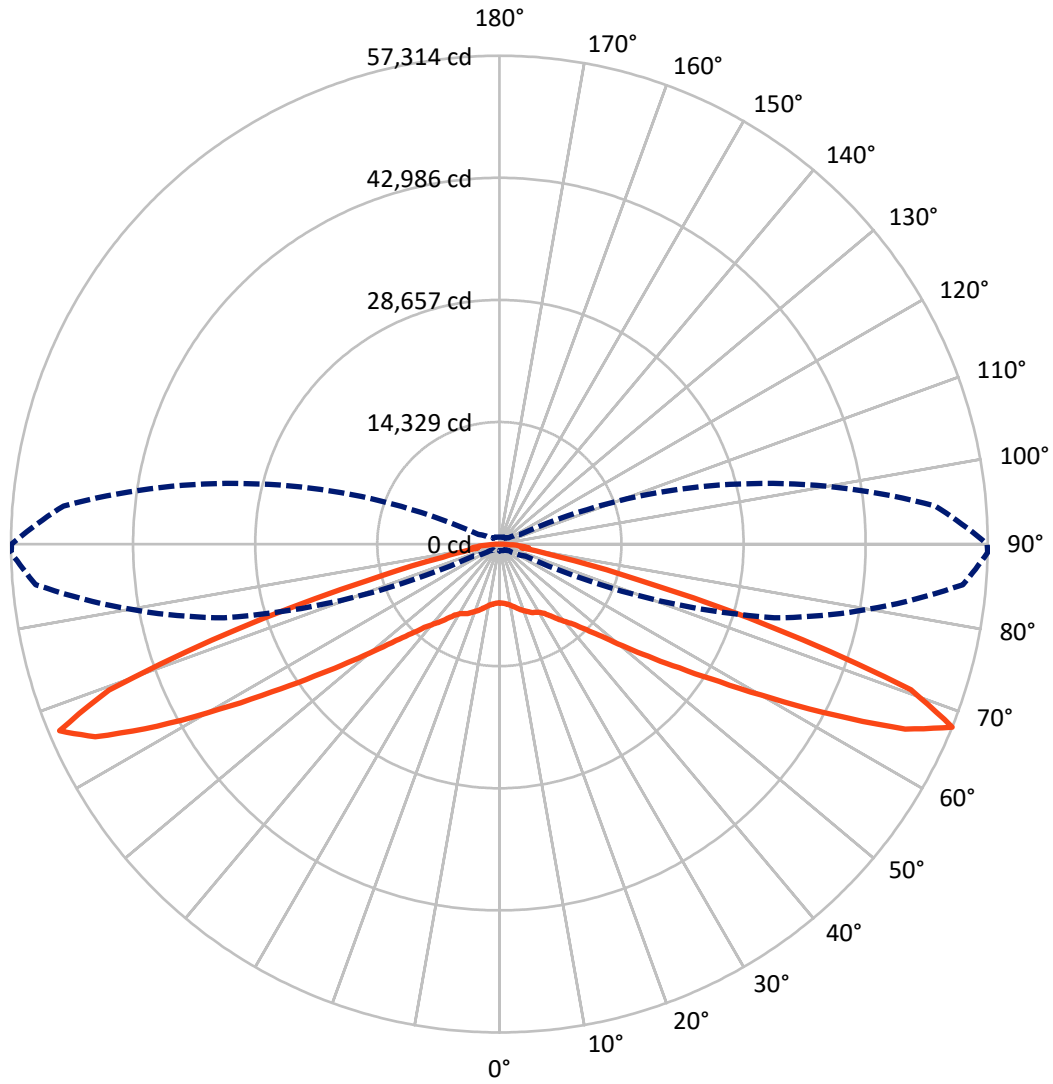
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type I - Medium - N/A

REPORT NUMBER: P641182
CATALOG NUMBER: GWS-SA5F-735-U-T1-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641182

CATALOG NUMBER: GWS-SA5F-735-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20365.5	0.0	20365.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	20725.6	0.0	20725.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	41091.1	0.0	41091.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.8	1.7
10°-20°	2252.6	5.5
20°-30°	3807.9	9.3
30°-40°	5225.9	12.7
40°-50°	6664.2	16.2
50°-60°	8361.3	20.3
60°-70°	10084.4	24.5
70°-80°	3648.2	8.9
80°-90°	354.8	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°	41091.1	100.0
0°-180°	41091.1	100.0

Coefficient of Utilization



REPORT NUMBER: P641182

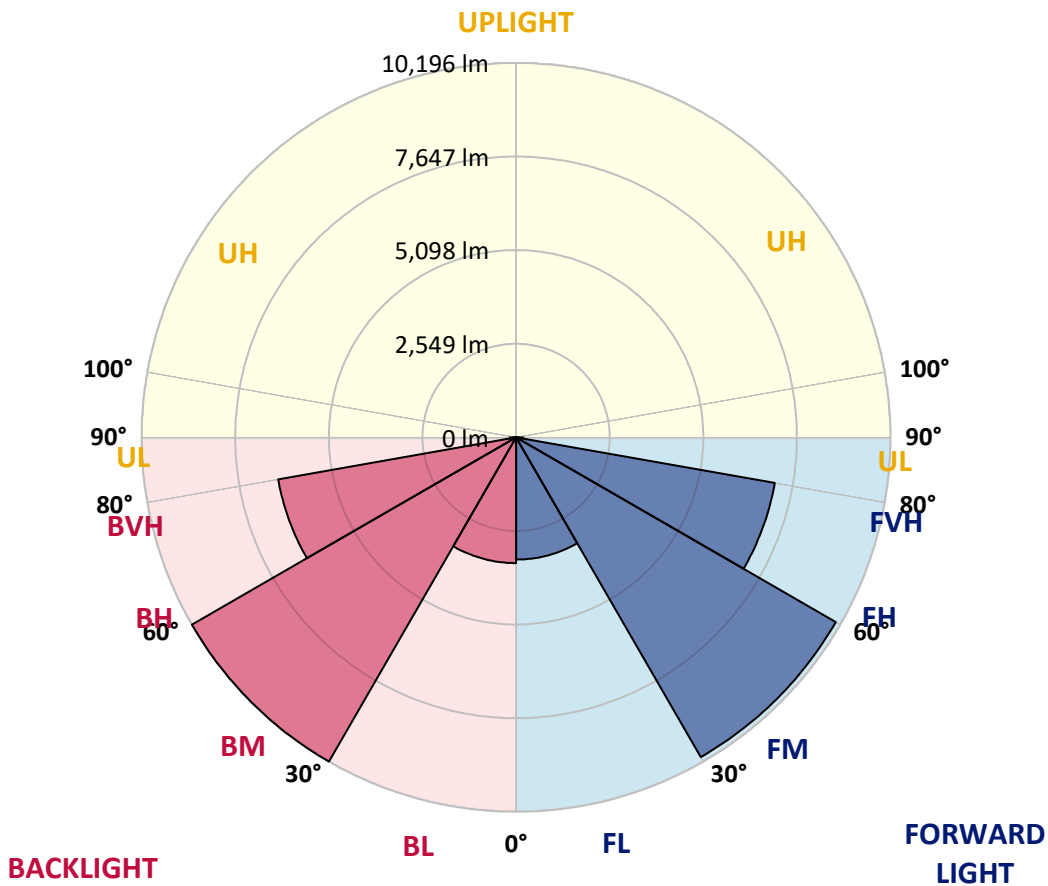
CATALOG NUMBER: GWS-SA5F-735-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3328.1	8.1			
FM (30°-60°)	10055.8	24.5			
FH (60°-80°)	7154.6	17.4			G3/7500
FVH (80°-90°)	187.2	0.5			G2/225
BL (0°-30°)	3424.3	8.3	B4/5000		
BM (30°-60°)	10195.6	24.8	B5		
BH (60°-80°)	6578.0	16.0	B5		G5
BVH (80°-90°)	167.6	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: P641182
 CATALOG NUMBER: GWS-SA5F-735-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8
2.5°	6917.5	6911.6	6896.8	6941.1	6932.2	6935.2	6952.9	6941.1	6920.4	6885.0	6935.2
5°	7112.2	7109.3	7076.8	7103.4	7073.9	7053.2	7050.3	7020.8	6997.1	6958.8	7011.9
7.5°	7301.1	7298.2	7271.6	7318.8	7295.2	7271.6	7245.0	7186.0	7130.0	7073.9	7132.9
10°	7445.7	7442.8	7436.9	7504.7	7510.6	7519.5	7507.7	7407.4	7310.0	7242.1	7301.1
12.5°	7528.4	7537.2	7552.0	7675.9	7737.9	7796.9	7811.7	7729.0	7566.7	7469.3	7540.2
15°	7472.3	7490.0	7563.8	7788.1	7959.2	8092.0	8148.1	8080.2	7870.7	7708.4	7788.1
17.5°	7203.7	7218.5	7363.1	7705.4	8083.2	8390.1	8481.6	8440.3	8207.1	8009.4	8086.1
20°	6831.9	6864.3	7020.8	7498.8	8062.5	8596.7	8841.6	8826.9	8573.1	8269.1	8360.6
22.5°	6495.5	6533.8	6699.1	7227.3	7923.8	8649.8	9204.6	9243.0	8906.5	8528.8	8602.6
25°	6117.7	6153.1	6365.6	6905.7	7684.8	8608.5	9514.5	9688.6	9284.3	8826.9	8894.7
27.5°	5731.1	5757.7	5967.2	6542.7	7371.9	8531.7	9759.4	10178.5	9656.1	9033.4	9080.7
30°	5391.7	5427.1	5619.0	6179.7	7029.6	8378.3	9960.1	10700.8	10084.0	9266.6	9304.9
32.5°	5064.2	5093.7	5303.2	5822.6	6666.6	8142.2	10140.1	11314.7	10718.5	9700.4	9700.4
35°	4651.0	4704.1	4940.2	5480.3	6324.3	7829.4	10270.0	12028.8	11586.2	10340.8	10343.7
37.5°	4270.3	4299.8	4547.7	5093.7	5964.3	7475.2	10281.8	12769.6	12684.0	11155.3	11161.2
40°	3836.5	3874.8	4140.4	4680.5	5551.1	7103.4	10169.6	13460.1	13834.9	11993.4	11961.0
42.5°	3396.8	3452.8	3706.6	4234.9	5105.5	6648.9	9871.6	14118.2	15295.7	12964.4	12884.7
45°	2971.8	3007.2	3261.0	3759.8	4594.9	6105.9	9393.5	14749.8	17031.0	14439.9	14324.8
47.5°	2493.7	2508.5	2771.1	3249.2	4066.7	5500.9	8708.8	15313.5	18937.5	16393.6	16195.8
50°	2068.7	2089.4	2296.0	2706.2	3420.4	4783.8	7855.9	15644.0	21366.2	19058.5	18716.1
52.5°	1673.3	1694.0	1859.2	2186.8	2827.2	3966.3	6799.4	15567.3	23830.4	22366.7	21867.9
55°	1351.6	1366.4	1478.5	1735.3	2225.2	3154.8	5551.1	14879.6	26566.1	26687.1	25612.9
57.5°	1142.1	1148.0	1224.7	1381.1	1738.2	2431.7	4285.1	13256.5	29434.7	32199.9	30435.1
60°	1021.1	1024.0	1059.5	1156.8	1372.3	1856.3	3140.0	10671.3	32406.4	39096.7	36676.7
62.5°	944.4	944.4	973.9	1029.9	1139.1	1428.4	2307.8	7664.1	34540.1	46601.4	44196.2
65°	870.6	870.6	891.2	938.5	997.5	1165.7	1732.3	4943.2	35587.8	52875.5	52341.4
67.5°	776.1	779.1	793.9	844.0	897.1	973.9	1313.3	3343.6	33412.8	54610.8	57314.1
70°	687.6	690.6	711.2	743.7	788.0	841.1	1027.0	2304.8	24320.3	45482.9	51246.5
72.5°	590.2	602.0	616.8	652.2	678.8	717.1	838.1	1493.3	14150.7	29257.6	33876.1
75°	484.0	498.7	516.4	551.9	569.6	584.3	690.6	1065.4	6808.3	14826.5	16883.5
77.5°	374.8	389.6	410.2	442.7	454.5	472.2	528.3	770.2	3261.0	6572.2	7085.7
80°	250.8	256.7	274.5	312.8	333.5	345.3	389.6	525.3	1416.5	2638.3	2614.7
82.5°	153.5	156.4	162.3	185.9	194.8	206.6	253.8	321.7	675.8	2998.4	3438.1
85°	56.1	53.1	50.2	64.9	76.7	88.5	118.0	162.3	295.1	2059.9	2304.8
87.5°	0.0	0.0	0.0	3.0	5.9	5.9	11.8	23.6	70.8	770.2	528.3
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: P641182
 CATALOG NUMBER: GWS-SA5F-735-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8	6896.8
2.5°	6920.4	6888.0	6929.3	6958.8	7023.7	7047.3	7053.2	7032.6	7032.6	6997.1	7003.1
5°	7000.1	6979.4	7047.3	7097.5	7191.9	7227.3	7250.9	7236.2	7245.0	7221.4	7227.3
7.5°	7121.1	7103.4	7221.4	7318.8	7416.2	7457.5	7478.2	7466.4	7469.3	7439.8	7448.7
10°	7289.3	7295.2	7436.9	7563.8	7693.6	7734.9	7743.8	7708.4	7678.9	7625.7	7628.7
12.5°	7519.5	7549.0	7749.7	7891.3	8024.1	8083.2	8018.2	7888.4	7767.4	7675.9	7664.1
15°	7770.3	7823.5	8112.7	8292.7	8437.3	8407.8	8216.0	7923.8	7684.8	7549.0	7522.5
17.5°	8071.4	8151.0	8514.0	8729.5	8853.4	8664.5	8263.2	7826.4	7492.9	7310.0	7274.6
20°	8354.7	8481.6	8939.0	9219.4	9234.1	8809.1	8242.5	7628.7	7209.6	6985.3	6938.1
22.5°	8614.4	8776.7	9384.6	9741.7	9549.9	8874.1	8115.6	7348.3	6867.3	6604.6	6563.3
25°	8897.7	9127.9	9904.0	10237.5	9865.7	8847.5	7850.0	7000.1	6454.1	6185.6	6156.1
27.5°	9092.5	9381.7	10426.4	10745.1	10125.4	8697.0	7507.7	6619.4	6076.4	5822.6	5781.3
30°	9316.7	9685.6	11001.8	11297.0	10284.7	8475.7	7141.8	6265.3	5725.2	5450.8	5421.2
32.5°	9724.0	10187.3	11716.0	11881.3	10334.9	8201.2	6790.6	5922.9	5359.3	5084.8	5043.5
35°	10379.2	10922.2	12719.4	12533.5	10296.5	7900.2	6457.1	5521.6	4984.5	4727.7	4686.4
37.5°	11205.5	11881.3	13837.9	13120.8	10190.3	7569.7	6061.6	5185.1	4648.0	4388.3	4364.7
40°	11975.7	12807.9	15092.1	13628.4	9974.8	7162.4	5680.9	4834.0	4285.1	4010.6	3957.5
42.5°	12940.7	14047.4	16544.1	14068.1	9620.7	6675.5	5253.0	4400.1	3830.6	3582.7	3517.8
45°	14407.5	15782.7	18232.1	14490.1	9092.5	6076.4	4715.9	3871.9	3331.8	3078.0	3027.9
47.5°	16237.2	17951.8	20061.8	14740.9	8289.7	5444.9	4108.0	3314.1	2774.1	2487.8	2464.2
50°	18807.6	21106.5	22024.3	14696.7	7392.6	4695.3	3423.3	2650.1	2198.6	1992.0	1959.6
52.5°	21938.8	25067.0	24146.2	14165.5	6439.4	3842.4	2667.8	2080.6	1744.1	1596.6	1570.0
55°	25866.7	29809.4	26380.2	13026.3	5235.3	2942.3	2095.3	1640.8	1410.6	1322.1	1310.3
57.5°	30730.2	35950.8	28531.6	11108.1	3936.8	2245.8	1614.3	1354.6	1245.4	1192.3	1189.3
60°	37148.9	42469.8	30399.7	8632.1	2818.3	1717.6	1333.9	1210.0	1124.4	1089.0	1086.0
62.5°	44780.6	48389.8	31562.4	5878.7	2118.9	1369.3	1174.6	1097.8	1047.7	1027.0	1024.0
65°	52624.7	52131.9	31007.6	3851.2	1608.4	1162.7	1053.6	1012.2	968.0	947.3	947.3
67.5°	57258.0	51341.0	26749.1	2673.7	1274.9	1021.1	950.3	911.9	838.1	820.4	820.4
70°	50715.3	41602.2	17532.7	1956.6	1032.9	894.2	826.3	773.2	743.7	726.0	723.0
72.5°	33542.6	27070.8	9322.6	1357.5	861.7	761.4	699.4	678.8	643.3	625.6	622.7
75°	16694.6	14218.6	4777.9	979.8	717.1	610.9	584.3	575.5	546.0	522.4	516.4
77.5°	6958.8	6330.2	2228.1	711.2	546.0	492.8	469.2	469.2	436.8	410.2	398.4
80°	2623.6	2337.3	1053.6	486.9	404.3	365.9	351.2	339.4	312.8	280.4	262.7
82.5°	3508.9	2293.0	516.4	304.0	265.6	236.1	215.4	206.6	191.8	177.1	165.3
85°	2272.4	1629.0	233.1	156.4	132.8	100.3	88.5	82.6	73.8	64.9	59.0
87.5°	463.3	546.0	70.8	29.5	17.7	8.9	8.9	3.0	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)