

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: P641237

Luminaire Tested: GWS-SA5F-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641237
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-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41662.1 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

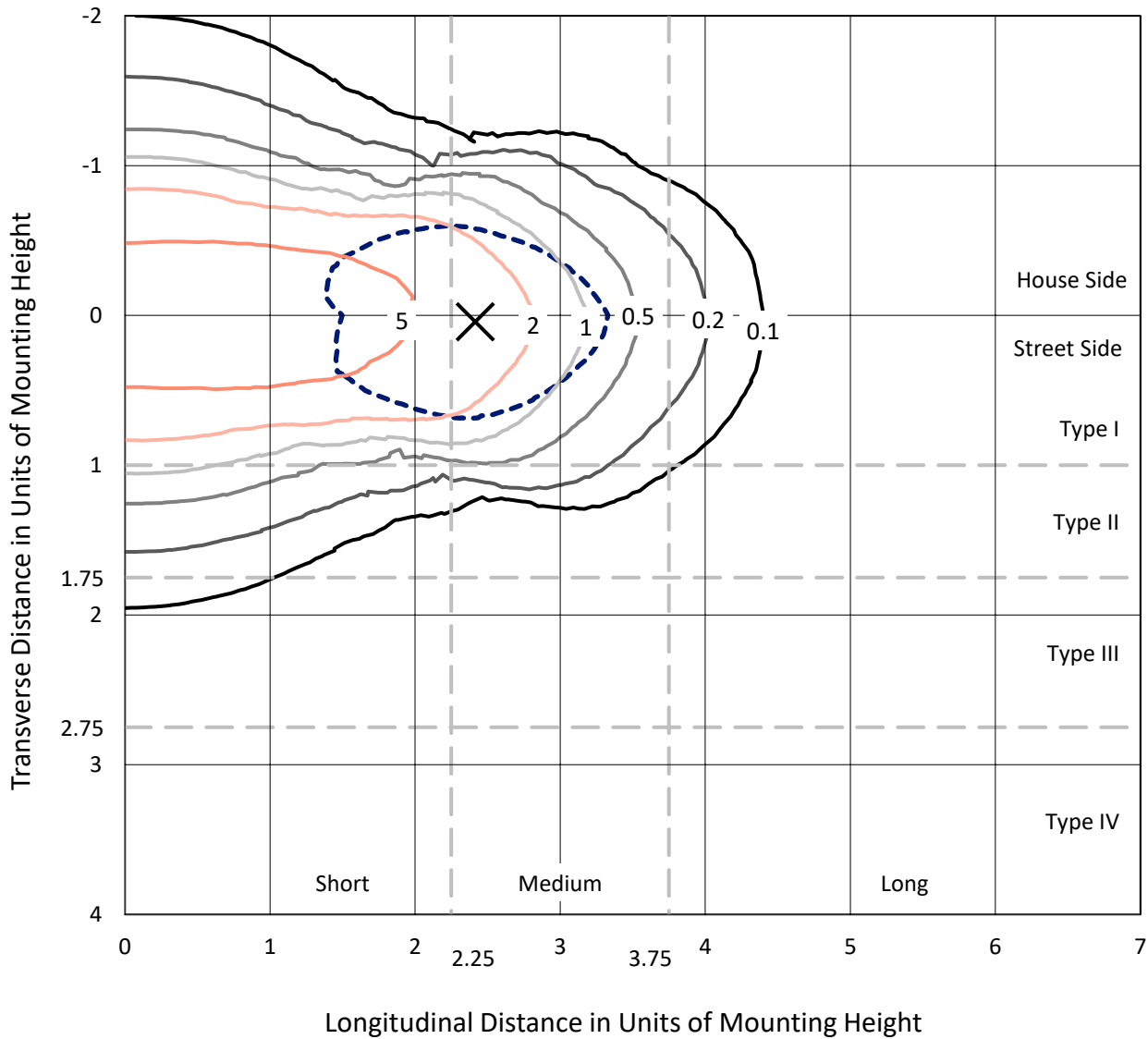
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641237
 CATALOG NUMBER: GWS-SA5F-740-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

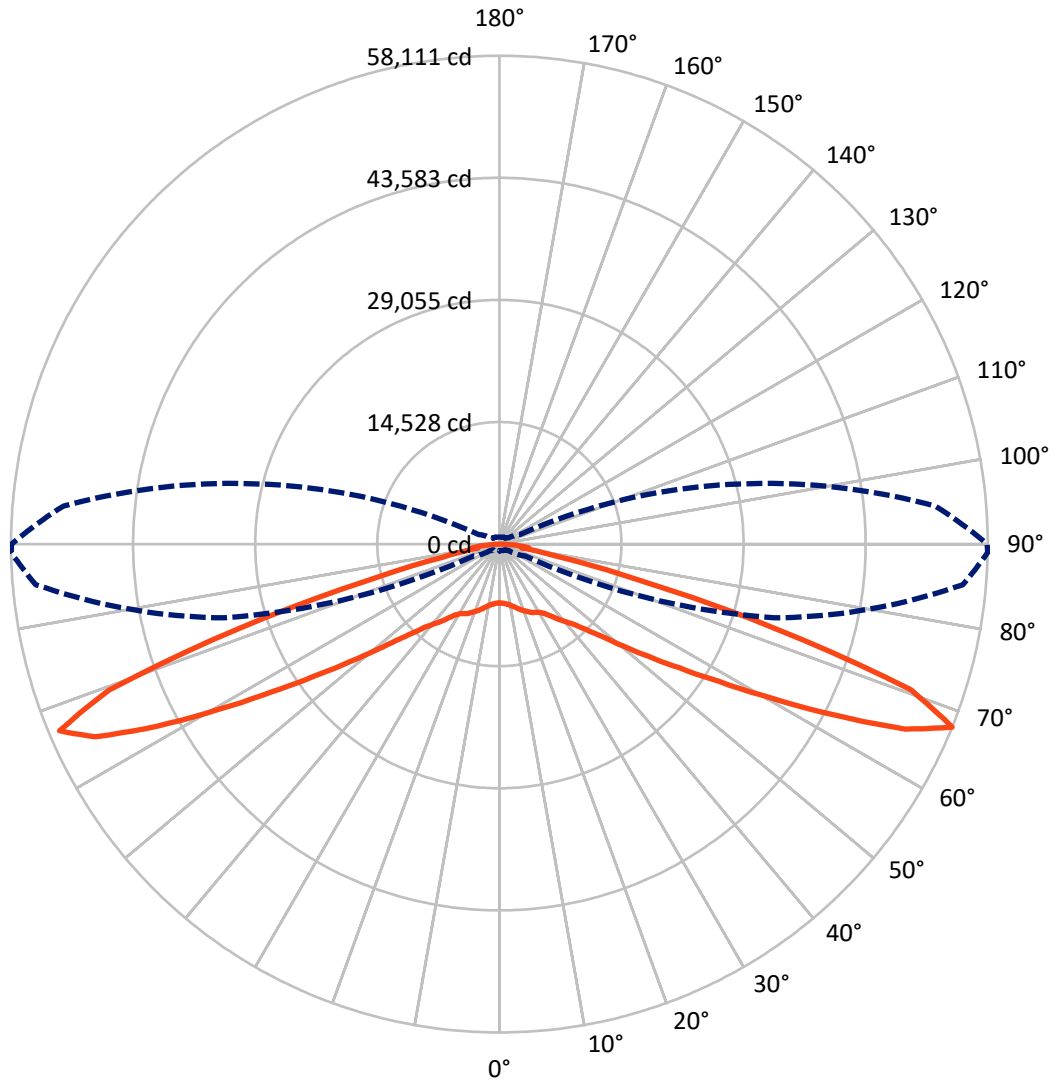
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type I - Medium - N/A

REPORT NUMBER: P641237
CATALOG NUMBER: GWS-SA5F-740-U-T1-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641237

CATALOG NUMBER: GWS-SA5F-740-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20648.5	0.0	20648.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21013.6	0.0	21013.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	41662.1	0.0	41662.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.4	1.7
10°-20°	2283.9	5.5
20°-30°	3860.9	9.3
30°-40°	5298.5	12.7
40°-50°	6756.8	16.2
50°-60°	8477.4	20.3
60°-70°	10224.5	24.5
70°-80°	3698.9	8.9
80°-90°	359.7	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°	41662.1	100.0
0°-180°	41662.1	100.0

Coefficient of Utilization



REPORT NUMBER: P641237

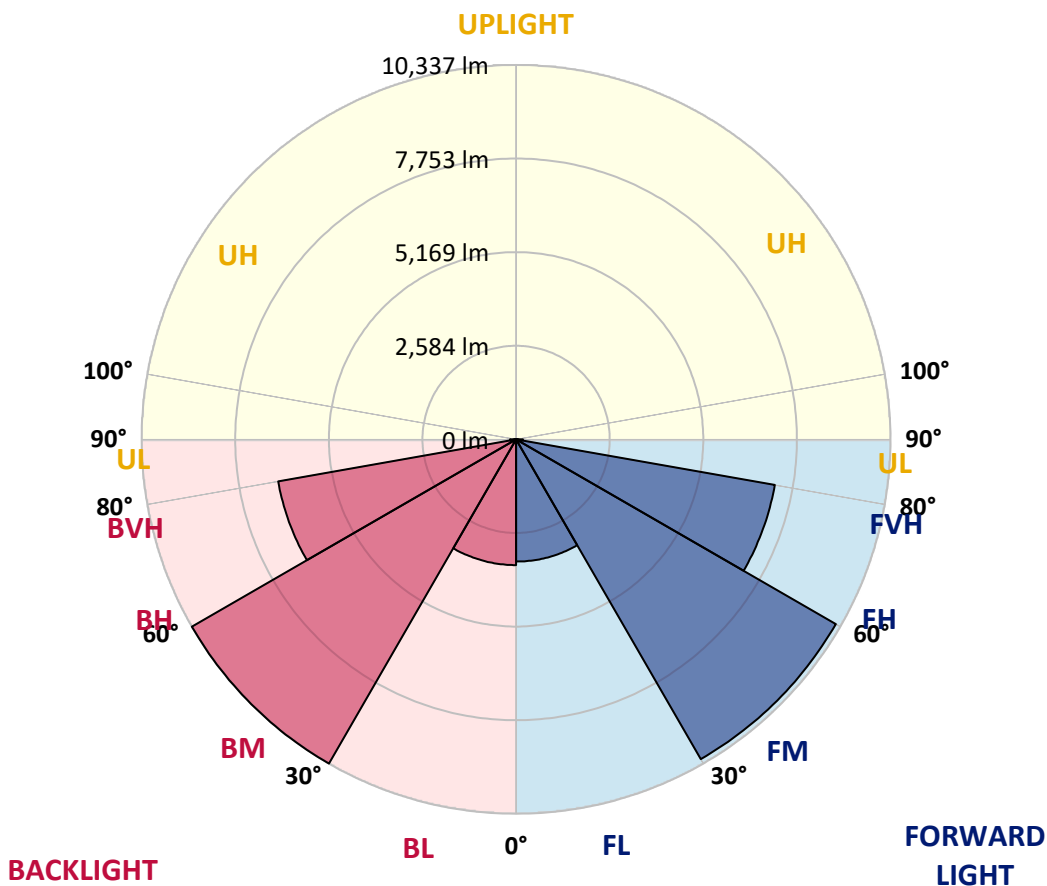
CATALOG NUMBER: GWS-SA5F-740-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3374.3	8.1			
FM (30°-60°)	10195.5	24.5			
FH (60°-80°)	7254.0	17.4			G3/7500
FVH (80°-90°)	189.8	0.5			G2/225
BL (0°-30°)	3471.9	8.3	B4/5000		
BM (30°-60°)	10337.2	24.8	B5		
BH (60°-80°)	6669.4	16.0	B5		G5
BVH (80°-90°)	169.9	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: P641237
 CATALOG NUMBER: GWS-SA5F-740-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6
2.5°	7013.6	7007.6	6992.6	7037.5	7028.6	7031.5	7049.5	7037.5	7016.6	6980.7	7031.5
5°	7211.1	7208.1	7175.2	7202.1	7172.2	7151.2	7148.2	7118.3	7094.4	7055.5	7109.3
7.5°	7402.6	7399.6	7372.7	7420.5	7396.6	7372.7	7345.7	7285.9	7229.0	7172.2	7232.0
10°	7549.2	7546.2	7540.2	7609.0	7615.0	7624.0	7612.0	7510.3	7411.5	7342.7	7402.6
12.5°	7633.0	7641.9	7656.9	7782.6	7845.4	7905.3	7920.2	7836.4	7671.9	7573.1	7644.9
15°	7576.1	7594.1	7668.9	7896.3	8069.8	8204.5	8261.3	8192.5	7980.1	7815.5	7896.3
17.5°	7303.8	7318.8	7465.4	7812.5	8195.5	8506.7	8599.4	8557.5	8321.2	8120.7	8198.5
20°	6926.8	6959.7	7118.3	7603.0	8174.5	8716.1	8964.5	8949.5	8692.2	8384.0	8476.8
22.5°	6585.7	6624.6	6792.2	7327.8	8033.9	8770.0	9332.5	9371.4	9030.3	8647.3	8722.1
25°	6202.7	6238.6	6454.1	7001.6	7791.6	8728.1	9646.7	9823.2	9413.3	8949.5	9018.3
27.5°	5810.7	5837.7	6050.1	6633.6	7474.4	8650.3	9895.0	10319.9	9790.3	9159.0	9206.8
30°	5466.7	5502.6	5697.0	6265.6	7127.3	8494.7	10098.5	10849.5	10224.2	9395.3	9434.2
32.5°	5134.5	5164.4	5376.9	5903.5	6759.3	8255.3	10281.0	11471.9	10867.5	9835.2	9835.2
35°	4715.6	4769.5	5008.9	5556.4	6412.2	7938.2	10412.7	12196.0	11747.2	10484.5	10487.5
37.5°	4329.6	4359.6	4610.9	5164.4	6047.1	7579.1	10424.6	12947.0	12860.2	11310.3	11316.3
40°	3889.8	3928.7	4198.0	4745.5	5628.2	7202.1	10310.9	13647.2	14027.2	12160.1	12127.2
42.5°	3444.0	3500.8	3758.1	4293.7	5176.4	6741.3	10008.7	14314.4	15508.3	13144.5	13063.7
45°	3013.1	3049.0	3306.3	3812.0	4658.8	6190.8	9524.0	14954.8	17267.7	14640.6	14523.9
47.5°	2528.4	2543.3	2809.6	3294.4	4123.2	5577.4	8829.8	15526.3	19200.6	16621.4	16420.9
50°	2097.5	2118.4	2327.9	2743.8	3467.9	4850.3	7965.1	15861.4	21663.1	19323.3	18976.2
52.5°	1696.5	1717.5	1885.1	2217.2	2866.5	4021.4	6893.9	15783.6	24161.6	22677.5	22171.8
55°	1370.4	1385.4	1499.1	1759.4	2256.1	3198.6	5628.2	15086.4	26935.3	27058.0	25968.8
57.5°	1158.0	1163.9	1241.7	1400.3	1762.4	2465.5	4344.6	13440.7	29843.7	32647.3	30858.0
60°	1035.3	1038.3	1074.2	1172.9	1391.3	1882.1	3183.6	10819.6	32856.8	39640.0	37186.4
62.5°	957.5	957.5	987.4	1044.3	1155.0	1448.2	2339.9	7770.6	35020.1	47249.0	44810.4
65°	882.7	882.7	903.6	951.5	1011.3	1181.9	1756.4	5011.8	36082.3	53610.3	53068.7
67.5°	786.9	789.9	804.9	855.8	909.6	987.4	1331.5	3390.1	33877.1	55369.7	58110.5
70°	697.2	700.2	721.1	754.0	798.9	852.8	1041.3	2336.9	24658.3	46115.0	51958.6
72.5°	598.4	610.4	625.4	661.3	688.2	727.1	849.8	1514.0	14347.3	29664.1	34346.9
75°	490.7	505.7	523.6	559.5	577.5	592.4	700.2	1080.2	6902.9	15032.5	17118.1
77.5°	380.0	395.0	415.9	448.8	460.8	478.7	535.6	781.0	3306.3	6663.5	7184.1
80°	254.3	260.3	278.3	317.2	338.1	350.1	395.0	532.6	1436.2	2675.0	2651.0
82.5°	155.6	158.6	164.6	188.5	197.5	209.5	257.3	326.1	685.2	3040.0	3485.9
85°	56.9	53.9	50.9	65.8	77.8	89.8	119.7	164.6	299.2	2088.5	2336.9
87.5°	0.0	0.0	0.0	3.0	6.0	6.0	12.0	23.9	71.8	781.0	535.6
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: P641237
 CATALOG NUMBER: GWS-SA5F-740-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6	6992.6
2.5°	7016.6	6983.7	7025.6	7055.5	7121.3	7145.2	7151.2	7130.3	7130.3	7094.4	7100.4
5°	7097.4	7076.4	7145.2	7196.1	7291.9	7327.8	7351.7	7336.7	7345.7	7321.8	7327.8
7.5°	7220.1	7202.1	7321.8	7420.5	7519.3	7561.2	7582.1	7570.1	7573.1	7543.2	7552.2
10°	7390.6	7396.6	7540.2	7668.9	7800.5	7842.4	7851.4	7815.5	7785.6	7731.7	7734.7
12.5°	7624.0	7653.9	7857.4	8001.0	8135.6	8195.5	8129.7	7998.0	7875.3	7782.6	7770.6
15°	7878.3	7932.2	8225.4	8407.9	8554.5	8524.6	8330.1	8033.9	7791.6	7653.9	7627.0
17.5°	8183.5	8264.3	8632.3	8850.8	8976.4	8784.9	8378.0	7935.2	7597.1	7411.5	7375.6
20°	8470.8	8599.4	9063.2	9347.5	9362.4	8931.6	8357.1	7734.7	7309.8	7082.4	7034.5
22.5°	8734.1	8898.6	9515.0	9877.1	9682.6	8997.4	8228.4	7450.4	6962.7	6696.4	6654.5
25°	9021.3	9254.7	10041.6	10379.8	10002.7	8970.5	7959.1	7097.4	6543.8	6271.5	6241.6
27.5°	9218.8	9512.0	10571.3	10894.4	10266.1	8817.9	7612.0	6711.4	6160.8	5903.5	5861.6
30°	9446.2	9820.2	11154.7	11453.9	10427.6	8593.4	7241.0	6352.3	5804.8	5526.5	5496.6
32.5°	9859.1	10328.9	11878.8	12046.4	10478.5	8315.2	6884.9	6005.2	5433.7	5155.5	5113.6
35°	10523.4	11073.9	12896.2	12707.6	10439.6	8010.0	6546.8	5598.3	5053.7	4793.4	4751.5
37.5°	11361.2	12046.4	14030.2	13303.1	10331.9	7674.9	6145.9	5257.2	4712.6	4449.3	4425.4
40°	12142.1	12985.9	15301.8	13817.7	10113.5	7261.9	5759.9	4901.1	4344.6	4066.3	4012.5
42.5°	13120.6	14242.6	16774.0	14263.6	9754.4	6768.2	5326.0	4461.3	3883.8	3632.5	3566.6
45°	14607.7	16002.0	18485.5	14691.4	9218.8	6160.8	4781.5	3925.7	3378.1	3120.8	3069.9
47.5°	16462.8	18201.2	20340.6	14945.8	8404.9	5520.5	4165.1	3360.2	2812.6	2522.4	2498.4
50°	19069.0	21399.8	22330.4	14900.9	7495.3	4760.5	3470.9	2686.9	2229.1	2019.7	1986.8
52.5°	22243.6	25415.3	24481.7	14362.3	6528.9	3895.8	2704.9	2109.5	1768.4	1618.8	1591.8
55°	26226.2	30223.7	26746.8	13207.3	5308.1	2983.2	2124.4	1663.6	1430.2	1340.5	1328.5
57.5°	31157.2	36450.3	28928.1	11262.4	3991.5	2277.0	1636.7	1373.4	1262.7	1208.8	1205.8
60°	37665.1	43060.0	30822.1	8752.0	2857.5	1741.4	1352.5	1226.8	1140.0	1104.1	1101.1
62.5°	45402.8	49062.2	32001.0	5960.4	2148.4	1388.4	1190.9	1113.1	1062.2	1041.3	1038.3
65°	53356.0	52856.3	31438.5	3904.8	1630.7	1178.9	1068.2	1026.3	981.4	960.5	960.5
67.5°	58053.6	52054.4	27120.8	2710.9	1292.6	1035.3	963.5	924.6	849.8	831.8	831.8
70°	51420.0	42180.3	17776.3	1983.8	1047.3	906.6	837.8	783.9	754.0	736.1	733.1
72.5°	34008.7	27447.0	9452.2	1376.4	873.7	772.0	709.1	688.2	652.3	634.3	631.3
75°	16926.6	14416.2	4844.3	993.4	727.1	619.4	592.4	583.5	553.5	529.6	523.6
77.5°	7055.5	6418.2	2259.1	721.1	553.5	499.7	475.8	475.8	442.8	415.9	403.9
80°	2660.0	2369.8	1068.2	493.7	409.9	371.0	356.1	344.1	317.2	284.3	266.3
82.5°	3557.7	2324.9	523.6	308.2	269.3	239.4	218.4	209.5	194.5	179.5	167.6
85°	2304.0	1651.7	236.4	158.6	134.6	101.7	89.8	83.8	74.8	65.8	59.8
87.5°	469.8	553.5	71.8	29.9	18.0	9.0	9.0	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)