

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: P639682

Luminaire Tested: GWS-SA5C-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23079.5 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

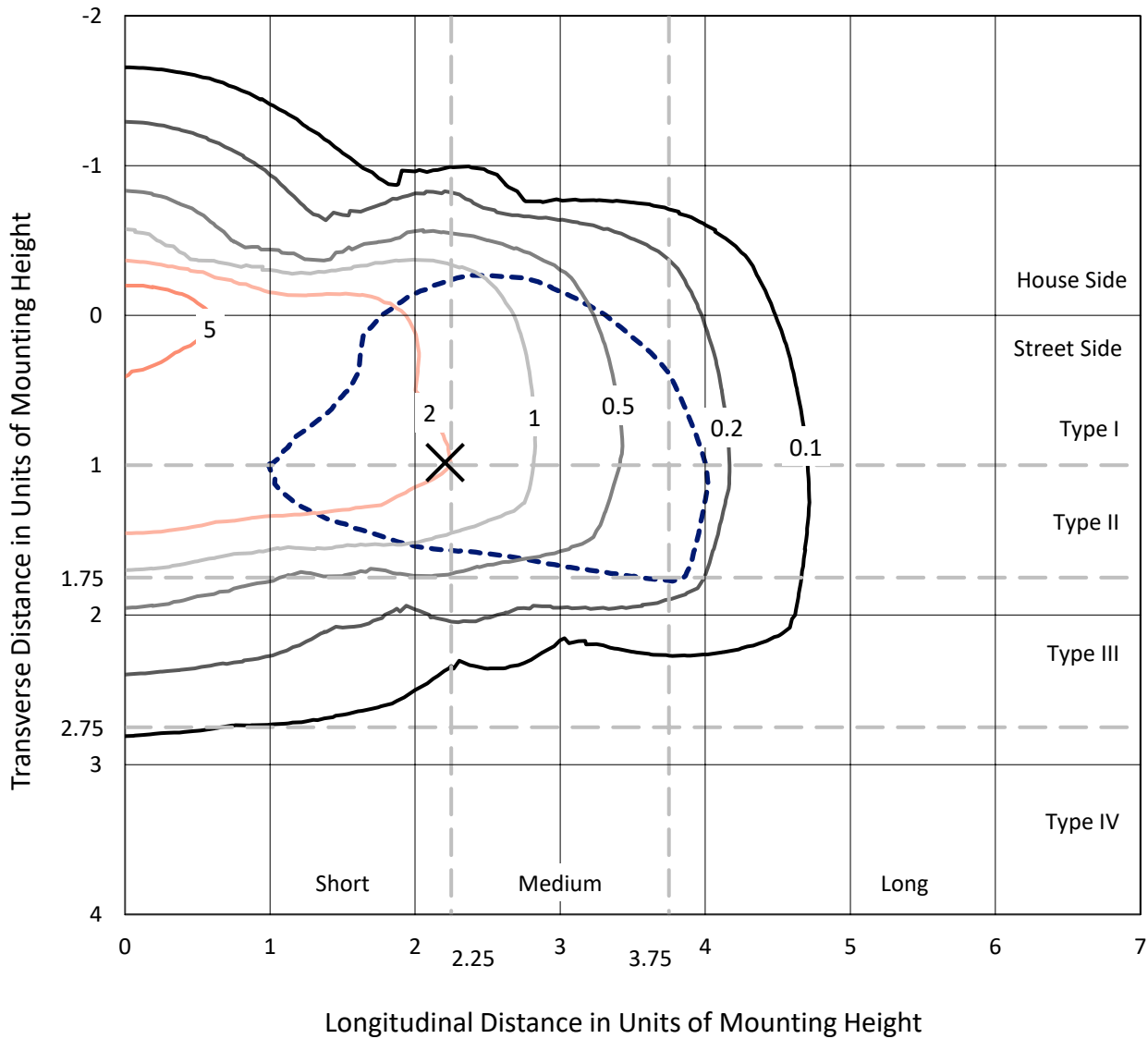
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

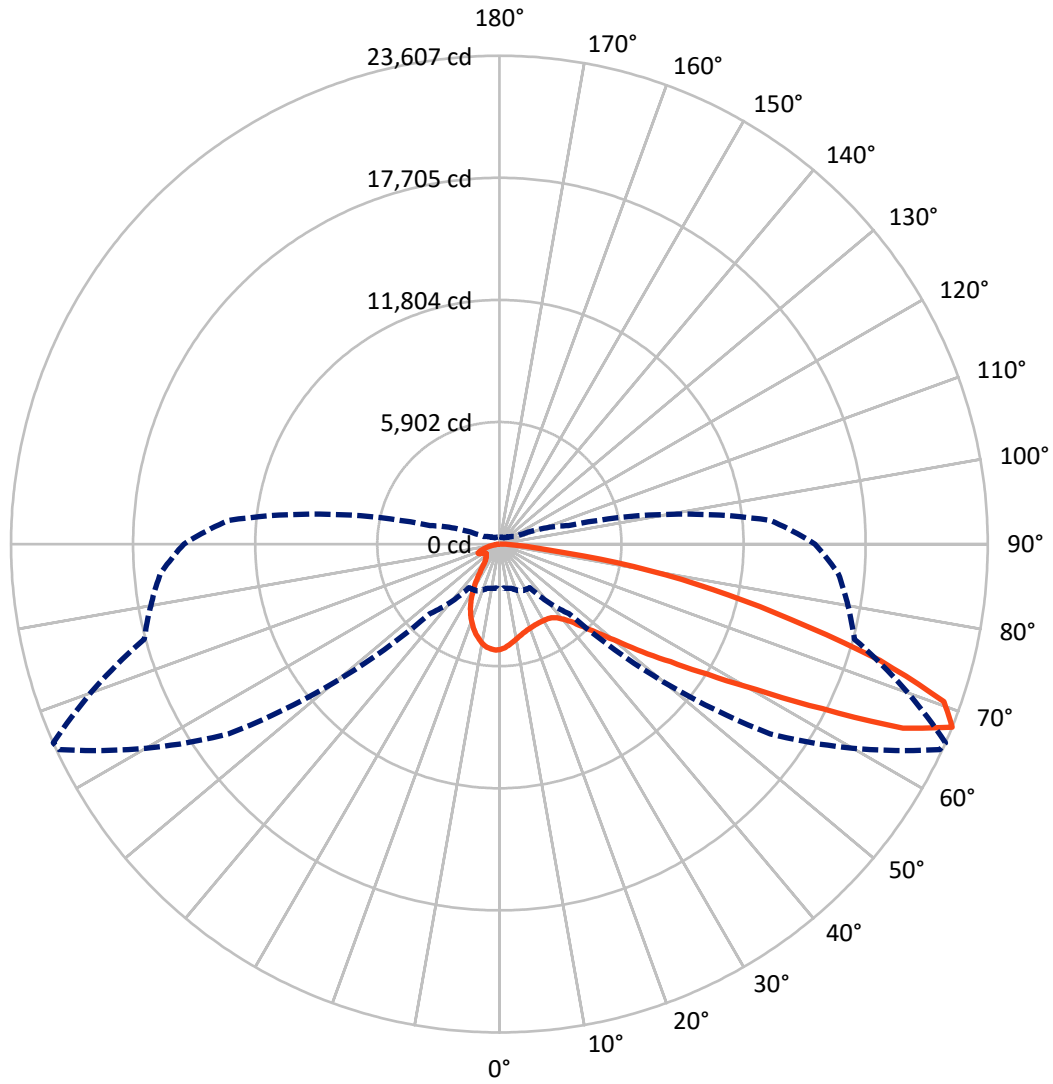
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4683.4	0.0	4683.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18396.1	0.0	18396.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	23079.5	0.0	23079.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.6	1.9
10°-20°	1100.0	4.8
20°-30°	1512.0	6.6
30°-40°	2067.1	9.0
40°-50°	3132.2	13.6
50°-60°	4869.1	21.1
60°-70°	5928.0	25.7
70°-80°	3611.1	15.6
80°-90°	412.5	1.8
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°	23079.5	100.0
0°-180°	23079.5	100.0

Coefficient of Utilization



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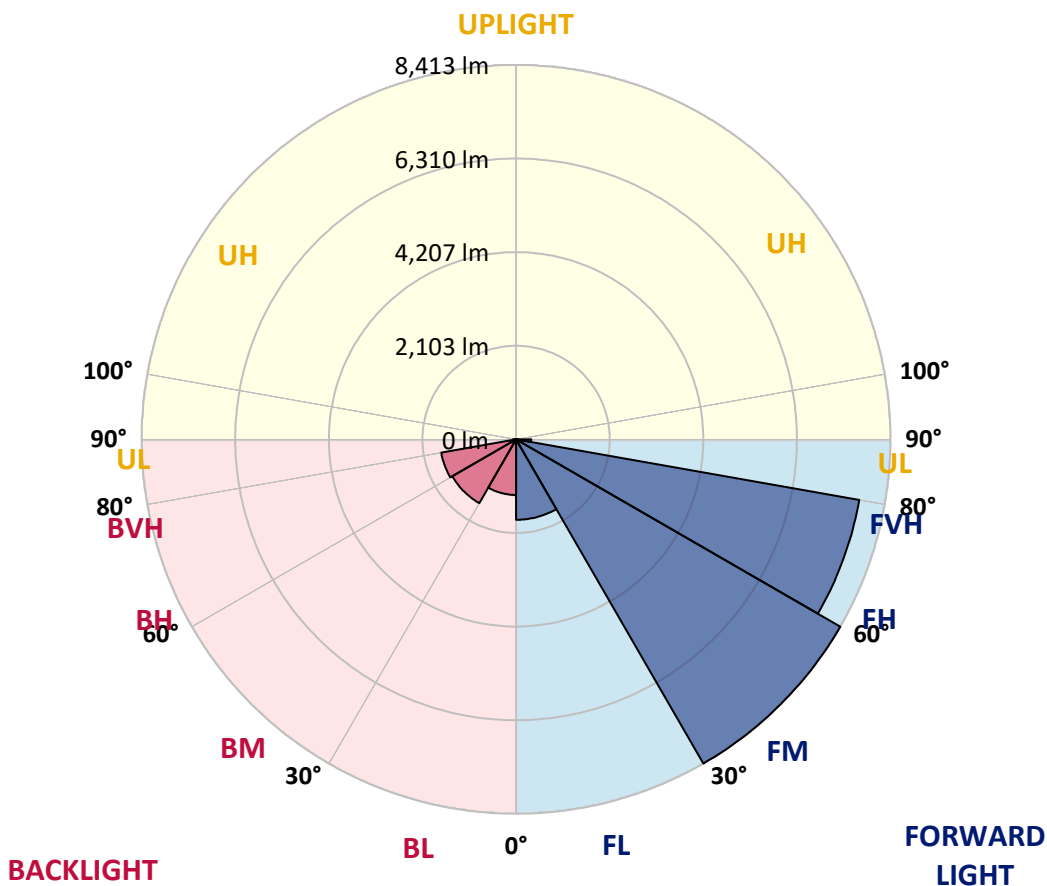
CATALOG NUMBER: GWS-SA5C-735-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.4	7.8			
FM (30°-60°)	8413.4	36.5			
FH (60°-80°)	7831.5	33.9			G4/12000
FVH (80°-90°)	342.9	1.5			G3/500
BL (0°-30°)	1251.1	5.4	B3/2500		
BM (30°-60°)	1655.1	7.2	B2/2500		
BH (60°-80°)	1707.6	7.4	B3/2500		G3/2500
BVH (80°-90°)	69.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9
2.5°	4776.6	4793.5	4783.4	4847.4	4850.7	4931.5	4977.0	5015.7	5019.1	5069.6	5103.3
5°	4450.0	4460.1	4460.1	4520.7	4561.1	4668.9	4773.3	4884.4	4892.8	5014.0	5106.6
7.5°	4185.7	4195.8	4189.0	4269.9	4322.0	4441.6	4574.6	4744.7	4761.5	4956.8	5118.4
10°	3978.6	3975.2	3992.0	4066.1	4133.5	4276.6	4424.8	4618.4	4643.6	4891.1	5131.9
12.5°	3837.1	3840.5	3850.6	3928.1	4000.5	4141.9	4295.1	4505.6	4532.5	4815.4	5125.2
15°	3769.8	3763.1	3771.5	3842.2	3911.2	4035.8	4194.1	4411.3	4438.2	4748.0	5126.9
17.5°	3754.6	3749.6	3747.9	3798.4	3850.6	3966.8	4118.3	4338.9	4367.5	4704.2	5137.0
20°	3801.8	3795.1	3776.5	3798.4	3820.3	3918.0	4064.4	4286.7	4318.7	4675.6	5157.2
22.5°	3931.4	3919.6	3891.0	3864.1	3835.5	3894.4	4030.8	4248.0	4280.0	4657.1	5177.4
25°	4128.4	4118.3	4088.0	4027.4	3923.0	3912.9	4024.0	4231.1	4263.1	4643.6	5185.8
27.5°	4399.5	4384.3	4354.0	4266.5	4096.4	3981.9	4049.3	4229.4	4259.8	4628.5	5177.4
30°	4721.1	4711.0	4694.1	4588.1	4360.8	4128.4	4106.5	4242.9	4266.5	4620.1	5160.5
32.5°	5047.7	5037.6	5051.1	5000.6	4721.1	4370.9	4231.1	4280.0	4296.8	4618.4	5145.4
35°	5335.6	5347.4	5445.1	5453.5	5179.0	4699.2	4428.1	4365.8	4369.2	4652.1	5152.1
37.5°	5637.0	5682.5	5810.4	5919.9	5690.9	5133.6	4721.1	4527.5	4524.1	4737.9	5194.2
40°	6036.0	6056.3	6219.6	6425.0	6281.9	5729.6	5137.0	4791.8	4768.2	4913.0	5307.0
42.5°	6425.0	6473.8	6734.8	6970.5	6923.4	6401.4	5660.6	5187.5	5145.4	5222.8	5539.4
45°	6920.0	6967.1	7260.1	7563.2	7649.0	7160.8	6330.7	5749.8	5707.7	5689.2	5965.3
47.5°	7415.0	7463.8	7726.5	8164.2	8465.6	8110.4	7202.9	6492.3	6423.3	6350.9	6608.5
50°	7748.4	7805.6	8056.5	8581.8	9288.9	9295.7	8236.6	7465.5	7378.0	7263.5	7514.3
52.5°	7736.6	7773.6	8012.7	8618.8	9881.6	10657.8	9620.6	8704.7	8634.0	8384.8	8603.7
55°	7128.8	7184.3	7425.1	8182.8	9945.6	11949.2	11654.5	10166.2	10039.9	9593.7	9834.5
57.5°	5908.1	5955.2	6197.7	7132.1	9378.2	12610.9	14237.3	12028.3	11854.9	10910.3	11188.2
60°	4460.1	4402.9	4517.4	5335.6	8021.1	12627.7	16517.1	14553.9	14264.3	12317.9	12550.3
62.5°	3347.2	3289.9	3315.2	3545.9	5438.3	11607.4	17816.9	18008.8	17530.6	13907.3	13861.9
65°	2645.1	2613.1	2685.5	2843.8	3170.4	8839.4	17827.0	21744.9	21443.5	15749.3	15207.1
67.5°	2155.1	2134.9	2209.0	2502.0	2571.0	4749.7	15985.0	23489.2	23607.1	17766.4	16454.8
70°	1735.9	1705.6	1821.8	2207.3	2390.8	2874.1	11450.8	22600.2	22790.5	18968.5	16102.9
72.5°	1198.8	1200.5	1259.4	1788.1	2308.3	2481.8	6477.2	18818.7	19231.2	17879.2	14156.5
75°	808.2	814.9	831.7	1180.3	2126.5	2407.7	3451.6	14247.4	14538.7	14777.8	11701.7
77.5°	488.3	491.6	530.4	713.9	1466.5	2247.7	2338.7	10327.8	10556.8	9741.9	7253.4
80°	282.9	294.6	330.0	478.2	990.0	1688.7	1810.0	6332.4	6591.7	4330.5	2305.0
82.5°	124.6	133.0	180.2	277.8	577.5	1436.2	1412.6	2502.0	2464.9	1207.2	799.8
85°	21.9	26.9	38.7	87.6	212.1	757.7	1096.1	1104.5	1038.8	458.0	331.7
87.5°	0.0	0.0	0.0	0.0	0.0	5.1	165.0	296.3	294.6	129.6	114.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9	5099.9
2.5°	5125.2	5079.7	5120.1	5125.2	5116.8	5110.0	5059.5	5015.7	5010.7	4963.5	4963.5
5°	5143.7	5101.6	5121.8	5083.1	5022.5	4960.2	4852.4	4778.3	4744.7	4684.0	4684.0
7.5°	5168.9	5125.2	5101.6	5005.6	4864.2	4727.8	4554.4	4409.6	4350.7	4264.8	4261.4
10°	5192.5	5137.0	5056.1	4869.2	4643.6	4426.4	4173.9	3968.5	3828.7	3726.0	3726.0
12.5°	5190.8	5118.4	4958.5	4682.4	4370.9	4056.0	3719.3	3409.5	3224.3	3064.3	3054.2
15°	5187.5	5088.1	4833.9	4465.2	4052.7	3616.6	3158.6	2754.5	2480.1	2323.5	2310.0
17.5°	5184.1	5049.4	4694.1	4217.7	3665.4	3071.1	2466.6	2028.9	1799.9	1703.9	1707.3
20°	5184.1	5005.6	4544.3	3933.1	3219.2	2417.8	1810.0	1491.8	1434.5	1439.6	1444.6
22.5°	5168.9	4951.7	4377.6	3623.3	2722.5	1778.0	1335.2	1227.4	1257.7	1304.9	1311.6
25°	5133.6	4862.5	4184.0	3279.8	2131.6	1294.8	1089.4	1069.1	1124.7	1183.6	1200.5
27.5°	5078.0	4759.8	3966.8	2877.4	1569.2	1040.5	958.0	956.3	1000.1	1043.9	1059.0
30°	5019.1	4645.3	3737.8	2429.6	1136.5	905.8	873.8	873.8	895.7	922.7	919.3
32.5°	4950.1	4529.1	3492.0	1963.2	926.0	830.1	820.0	814.9	818.3	828.4	828.4
35°	4891.1	4426.4	3239.4	1469.9	830.1	788.0	777.9	766.1	761.0	754.3	757.7
37.5°	4869.2	4345.6	2978.5	1107.9	782.9	757.7	740.8	724.0	712.2	708.8	707.2
40°	4904.6	4311.9	2717.5	912.6	749.2	725.7	707.2	685.3	675.2	675.2	675.2
42.5°	5042.7	4337.2	2451.5	825.0	725.7	698.7	671.8	651.6	648.2	651.6	653.3
45°	5295.2	4434.9	2175.3	781.2	705.5	671.8	639.8	624.7	624.7	628.0	628.0
47.5°	5746.5	4690.8	1902.6	754.3	685.3	649.9	616.2	601.1	599.4	602.8	602.8
50°	6527.7	5152.1	1656.8	735.8	670.1	633.1	599.4	579.2	574.1	572.5	572.5
52.5°	7512.7	5951.9	1500.2	722.3	651.6	614.5	580.9	553.9	543.8	538.8	538.8
55°	8703.0	7017.6	1500.2	712.2	628.0	592.7	553.9	527.0	511.8	505.1	505.1
57.5°	10051.7	8258.5	1759.5	703.8	609.5	567.4	525.3	498.4	481.5	471.4	471.4
60°	11423.9	9570.1	2401.0	692.0	592.7	535.4	493.3	468.1	446.2	434.4	432.7
62.5°	12846.6	11014.7	3246.2	698.7	580.9	505.1	459.6	431.0	412.5	400.7	399.0
65°	14149.8	12390.3	3985.3	750.9	582.6	478.2	420.9	395.7	380.5	365.4	363.7
67.5°	15256.0	13149.7	3466.7	857.0	617.9	446.2	382.2	356.9	343.5	333.4	331.7
70°	14481.5	11991.3	1966.6	922.7	666.7	412.5	338.4	321.6	308.1	301.4	299.7
72.5°	12383.6	10152.7	1315.0	814.9	607.8	368.7	298.0	284.5	274.4	266.0	264.3
75°	10031.5	8051.4	1005.2	668.4	473.1	299.7	255.9	245.8	235.7	227.3	225.6
77.5°	5935.0	4652.1	740.8	528.7	333.4	234.0	212.1	203.7	193.6	186.9	185.2
80°	1894.2	1616.3	469.8	363.7	220.6	180.2	163.3	156.6	146.5	138.1	136.4
82.5°	722.3	624.7	249.2	185.2	146.5	122.9	109.4	102.7	96.0	87.6	85.9
85°	319.9	299.7	138.1	99.3	79.1	60.6	53.9	50.5	42.1	35.4	33.7
87.5°	112.8	112.8	58.9	28.6	16.8	8.4	5.1	1.7	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)