

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: P638377

Luminaire Tested: GWS-SA4E-760-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638377
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-SA4E-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: 30818.4 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: B4 - U0 - G4

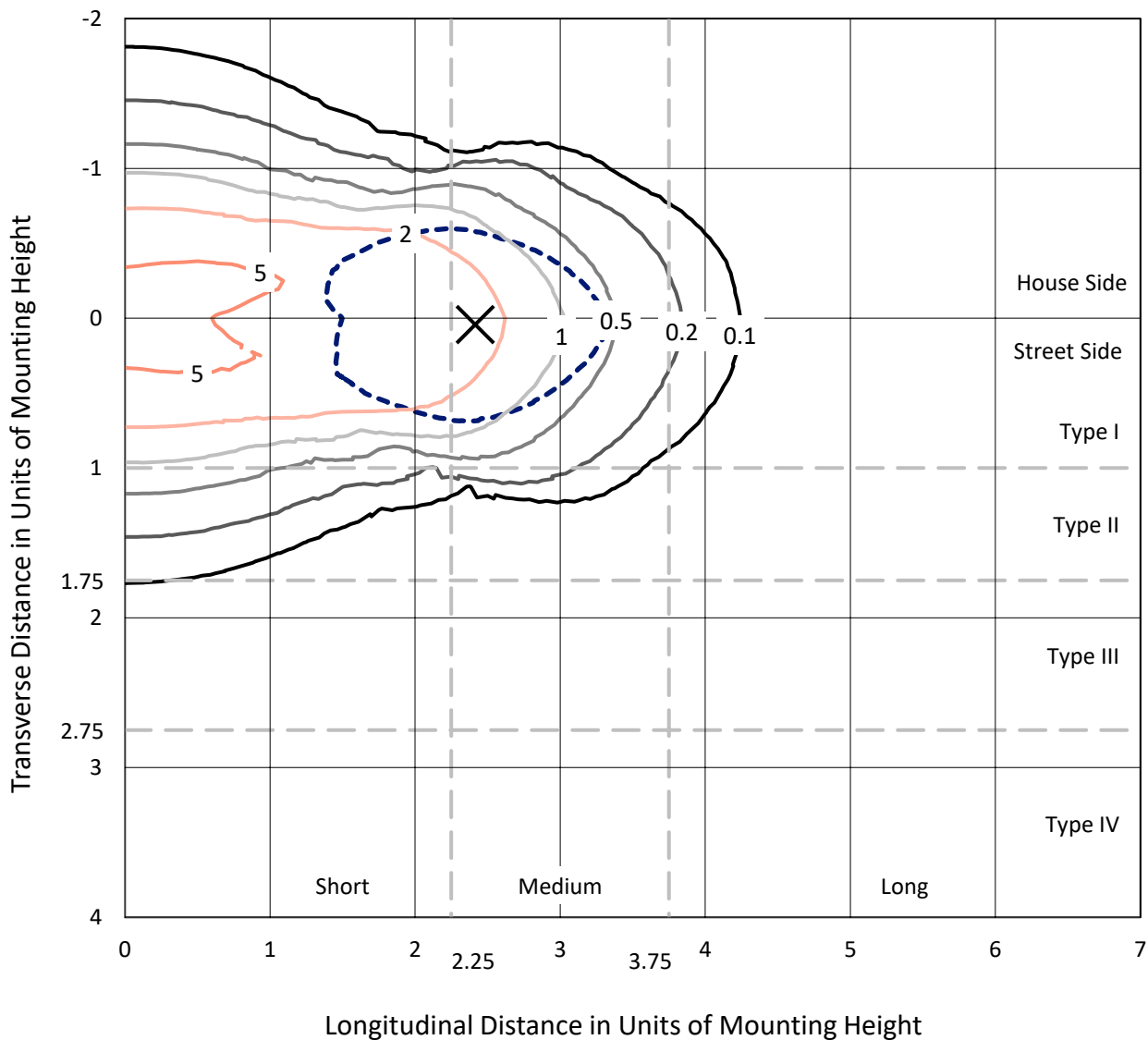
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

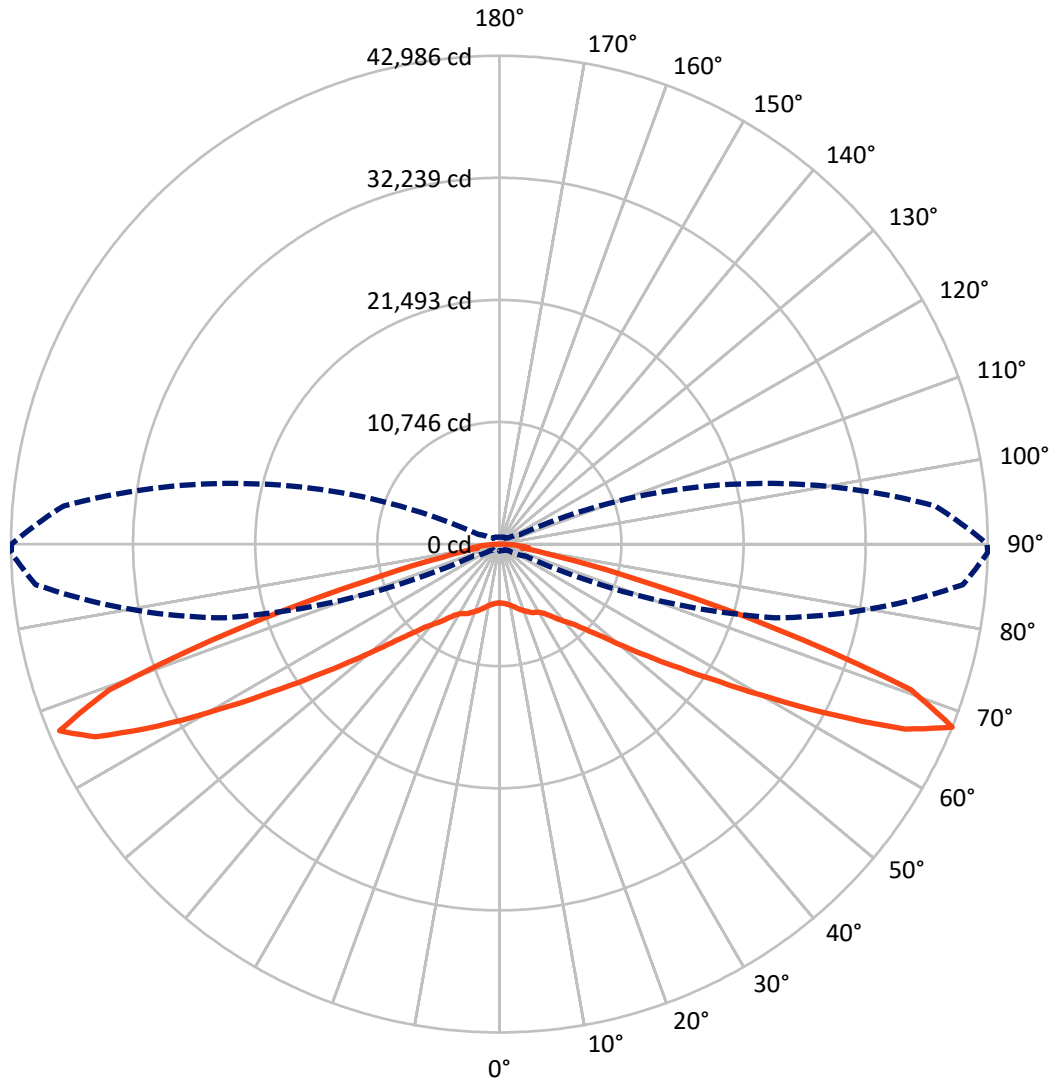
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15274.1	0.0	15274.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15544.3	0.0	15544.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	30818.4	0.0	30818.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.8	1.7
10°-20°	1689.5	5.5
20°-30°	2856.0	9.3
30°-40°	3919.4	12.7
40°-50°	4998.2	16.2
50°-60°	6271.0	20.3
60°-70°	7563.3	24.5
70°-80°	2736.2	8.9
80°-90°	266.1	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°	30818.4	100.0
0°-180°	30818.4	100.0

Coefficient of Utilization



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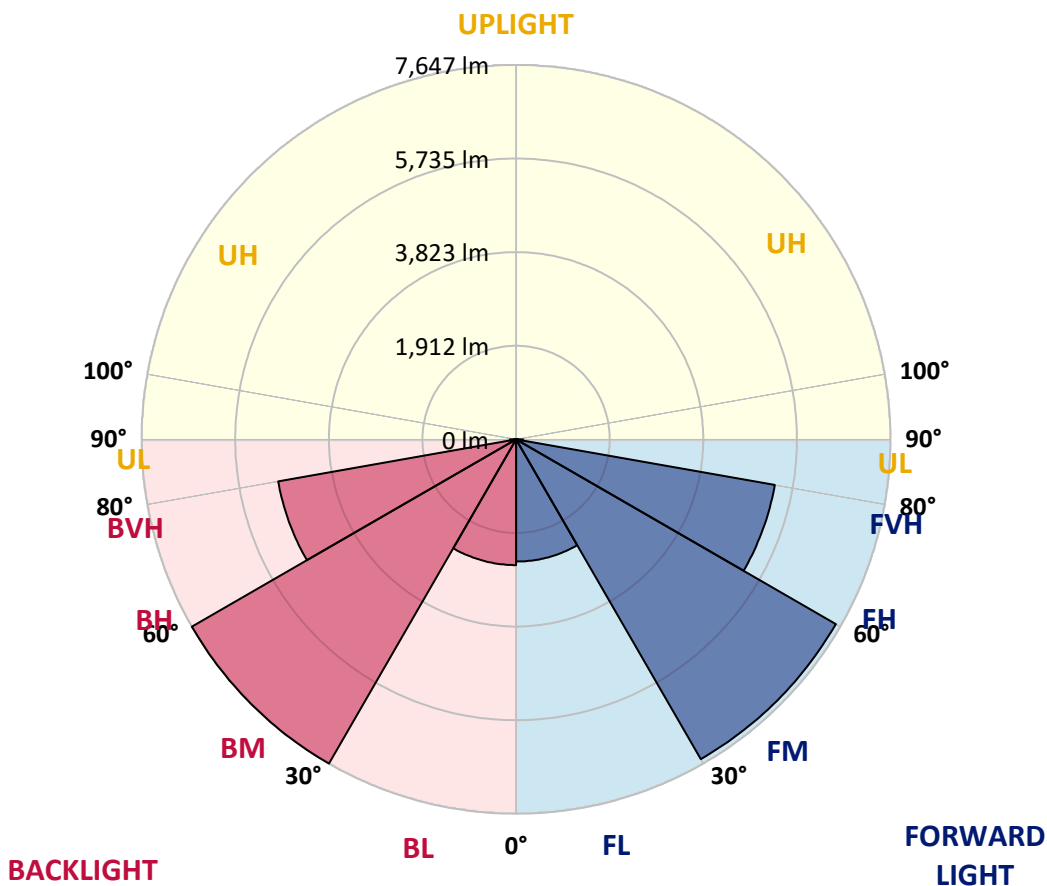
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2496.1	8.1			
FM (30°-60°)	7541.9	24.5			
FH (60°-80°)	5365.9	17.4			G3/7500
FVH (80°-90°)	140.4	0.5			G2/225
BL (0°-30°)	2568.2	8.3	B4/5000		
BM (30°-60°)	7646.7	24.8	B4/8500		
BH (60°-80°)	4933.5	16.0	B4/5000		G4/5000
BVH (80°-90°)	125.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6
2.5°	5188.1	5183.7	5172.6	5205.8	5199.2	5201.4	5214.7	5205.8	5190.3	5163.8	5201.4
5°	5334.2	5332.0	5307.6	5327.6	5305.4	5289.9	5287.7	5265.6	5247.9	5219.1	5258.9
7.5°	5475.9	5473.6	5453.7	5489.1	5471.4	5453.7	5433.8	5389.5	5347.5	5305.4	5349.7
10°	5584.3	5582.1	5577.7	5628.6	5633.0	5639.6	5630.8	5555.5	5482.5	5431.6	5475.9
12.5°	5646.3	5652.9	5664.0	5756.9	5803.4	5847.7	5858.8	5796.8	5675.1	5602.0	5655.1
15°	5604.2	5617.5	5672.8	5841.1	5969.4	6069.0	6111.1	6060.2	5903.0	5781.3	5841.1
17.5°	5402.8	5413.9	5522.3	5779.1	6062.4	6292.6	6361.2	6330.2	6155.4	6007.1	6064.6
20°	5123.9	5148.3	5265.6	5624.1	6046.9	6447.5	6631.2	6620.2	6429.8	6201.8	6270.4
22.5°	4871.6	4900.4	5024.3	5420.5	5942.9	6487.4	6903.5	6932.2	6679.9	6396.6	6451.9
25°	4588.3	4614.9	4774.2	5179.3	5763.6	6456.4	7135.9	7266.5	6963.2	6620.2	6671.1
27.5°	4298.3	4318.3	4475.4	4907.0	5529.0	6398.8	7319.6	7633.9	7242.1	6775.1	6810.5
30°	4043.8	4070.4	4214.2	4634.8	5272.2	6283.7	7470.1	8025.6	7563.0	6949.9	6978.7
32.5°	3798.1	3820.3	3977.4	4367.0	5000.0	6106.7	7605.1	8486.0	8038.9	7275.3	7275.3
35°	3488.3	3528.1	3705.2	4110.2	4743.2	5872.0	7702.5	9021.7	8689.6	7755.6	7757.8
37.5°	3202.7	3224.9	3410.8	3820.3	4473.2	5606.4	7711.3	9577.2	9513.0	8366.5	8370.9
40°	2877.4	2906.1	3105.3	3510.4	4163.3	5327.6	7627.2	10095.1	10376.2	8995.1	8970.7
42.5°	2547.6	2589.6	2780.0	3176.2	3829.1	4986.7	7403.7	10588.7	11471.8	9723.3	9663.5
45°	2228.9	2255.4	2445.8	2819.8	3446.2	4579.4	7045.1	11062.4	12773.3	10830.0	10743.6
47.5°	1870.3	1881.4	2078.3	2436.9	3050.0	4125.7	6531.6	11485.1	14203.1	12295.2	12146.9
50°	1551.6	1567.1	1722.0	2029.7	2565.3	3587.9	5892.0	11733.0	16024.7	14293.9	14037.1
52.5°	1255.0	1270.5	1394.4	1640.1	2120.4	2974.8	5099.6	11675.5	17872.9	16775.0	16401.0
55°	1013.7	1024.8	1108.9	1301.5	1668.9	2366.1	4163.3	11159.8	19924.7	20015.4	19209.7
57.5°	856.6	861.0	918.5	1035.9	1303.7	1823.8	3213.8	9942.4	22076.0	24150.0	22826.4
60°	765.8	768.0	794.6	867.6	1029.2	1392.2	2355.0	8003.5	24304.9	29322.6	27507.6
62.5°	708.3	708.3	730.4	772.5	854.4	1071.3	1730.8	5748.1	25905.2	34951.2	33147.3
65°	652.9	652.9	668.4	703.8	748.1	874.3	1299.2	3707.4	26690.9	39656.8	39256.1
67.5°	582.1	584.3	595.4	633.0	672.9	730.4	984.9	2507.7	25059.7	40958.2	42985.6
70°	515.7	517.9	533.4	557.8	591.0	630.8	770.2	1728.6	18240.3	34112.3	38435.0
72.5°	442.7	451.5	462.6	489.2	509.1	537.8	628.6	1120.0	10613.1	21943.2	25407.1
75°	363.0	374.1	387.3	413.9	427.2	438.2	517.9	799.0	5106.2	11119.9	12662.6
77.5°	281.1	292.2	307.7	332.0	340.9	354.1	396.2	577.7	2445.8	4929.2	5314.3
80°	188.1	192.6	205.8	234.6	250.1	259.0	292.2	394.0	1062.4	1978.7	1961.0
82.5°	115.1	117.3	121.7	139.4	146.1	154.9	190.3	241.3	506.9	2248.8	2578.6
85°	42.1	39.8	37.6	48.7	57.5	66.4	88.5	121.7	221.3	1544.9	1728.6
87.5°	0.0	0.0	0.0	2.2	4.4	4.4	8.9	17.7	53.1	577.7	396.2
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°	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6
2.5°	5190.3	5166.0	5197.0	5219.1	5267.8	5285.5	5289.9	5274.4	5274.4	5247.9	5252.3
5°	5250.1	5234.6	5285.5	5323.1	5394.0	5420.5	5438.2	5427.2	5433.8	5416.1	5420.5
7.5°	5340.8	5327.6	5416.1	5489.1	5562.2	5593.2	5608.7	5599.8	5602.0	5579.9	5586.5
10°	5467.0	5471.4	5577.7	5672.8	5770.2	5801.2	5807.9	5781.3	5759.2	5719.3	5721.5
12.5°	5639.6	5661.8	5812.3	5918.5	6018.1	6062.4	6013.7	5916.3	5825.6	5756.9	5748.1
15°	5827.8	5867.6	6084.5	6219.5	6328.0	6305.9	6162.0	5942.9	5763.6	5661.8	5641.9
17.5°	6053.5	6113.3	6385.5	6547.1	6640.1	6498.4	6197.4	5869.8	5619.7	5482.5	5455.9
20°	6266.0	6361.2	6704.3	6914.5	6925.6	6606.9	6181.9	5721.5	5407.2	5239.0	5203.6
22.5°	6460.8	6582.5	7038.5	7306.3	7162.4	6655.6	6086.7	5511.3	5150.5	4953.5	4922.5
25°	6673.3	6845.9	7428.0	7678.1	7399.3	6635.7	5887.5	5250.1	4840.6	4639.2	4617.1
27.5°	6819.4	7036.3	7819.8	8058.8	7594.0	6522.8	5630.8	4964.6	4557.3	4367.0	4336.0
30°	6987.6	7264.2	8251.4	8472.7	7713.6	6356.8	5356.3	4699.0	4293.9	4088.1	4065.9
32.5°	7293.0	7640.5	8787.0	8911.0	7751.2	6150.9	5092.9	4442.2	4019.5	3813.6	3782.6
35°	7784.4	8191.6	9539.6	9400.1	7722.4	5925.2	4842.8	4141.2	3738.4	3545.8	3514.8
37.5°	8404.1	8911.0	10378.4	9840.6	7642.7	5677.3	4546.2	3888.9	3486.0	3291.3	3273.6
40°	8981.8	9606.0	11319.1	10221.3	7481.2	5371.8	4260.7	3625.5	3213.8	3008.0	2968.1
42.5°	9705.6	10535.6	12408.1	10551.1	7215.6	5006.6	3939.8	3300.1	2872.9	2687.0	2638.3
45°	10805.6	11837.0	13674.1	10867.6	6819.4	4557.3	3536.9	2903.9	2498.9	2308.5	2270.9
47.5°	12177.9	13463.9	15046.4	11055.7	6217.3	4083.6	3081.0	2485.6	2080.6	1865.9	1848.2
50°	14105.7	15829.9	16518.3	11022.5	5544.5	3521.5	2567.5	1987.6	1649.0	1494.0	1469.7
52.5°	16454.1	18800.3	18109.7	10624.1	4829.5	2881.8	2000.9	1560.4	1308.1	1197.4	1177.5
55°	19400.1	22357.1	19785.2	9769.8	3926.5	2206.7	1571.5	1230.6	1058.0	991.6	982.7
57.5°	23047.7	26963.1	21398.8	8331.1	2952.6	1684.4	1210.7	1015.9	934.0	894.2	892.0
60°	27861.8	31852.5	22799.8	6474.1	2113.8	1288.2	1000.4	907.5	843.3	816.7	814.5
62.5°	33585.5	36292.4	23671.9	4409.0	1589.2	1027.0	880.9	823.4	785.7	770.2	768.0
65°	39468.6	39099.0	23255.8	2888.4	1206.3	872.1	790.2	759.2	726.0	710.5	710.5
67.5°	42943.6	38505.8	20061.9	2005.3	956.2	765.8	712.7	683.9	628.6	615.3	615.3
70°	38036.6	31201.7	13149.6	1467.5	774.7	670.6	619.7	579.9	557.8	544.5	542.3
72.5°	25157.0	20303.1	6992.0	1018.1	646.3	571.0	524.6	509.1	482.5	469.2	467.0
75°	12521.0	10664.0	3583.4	734.8	537.8	458.2	438.2	431.6	409.5	391.8	387.3
77.5°	5219.1	4747.7	1671.1	533.4	409.5	369.6	351.9	351.9	327.6	307.7	298.8
80°	1967.7	1753.0	790.2	365.2	303.2	274.5	263.4	254.5	234.6	210.3	197.0
82.5°	2631.7	1719.8	387.3	228.0	199.2	177.1	161.6	154.9	143.9	132.8	123.9
85°	1704.3	1221.8	174.9	117.3	99.6	75.3	66.4	62.0	55.3	48.7	44.3
87.5°	347.5	409.5	53.1	22.1	13.3	6.6	6.6	2.2	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)