

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: P640302

Luminaire Tested: GWS-SA5D-750-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640302
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-SA5D-750-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30673.1 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

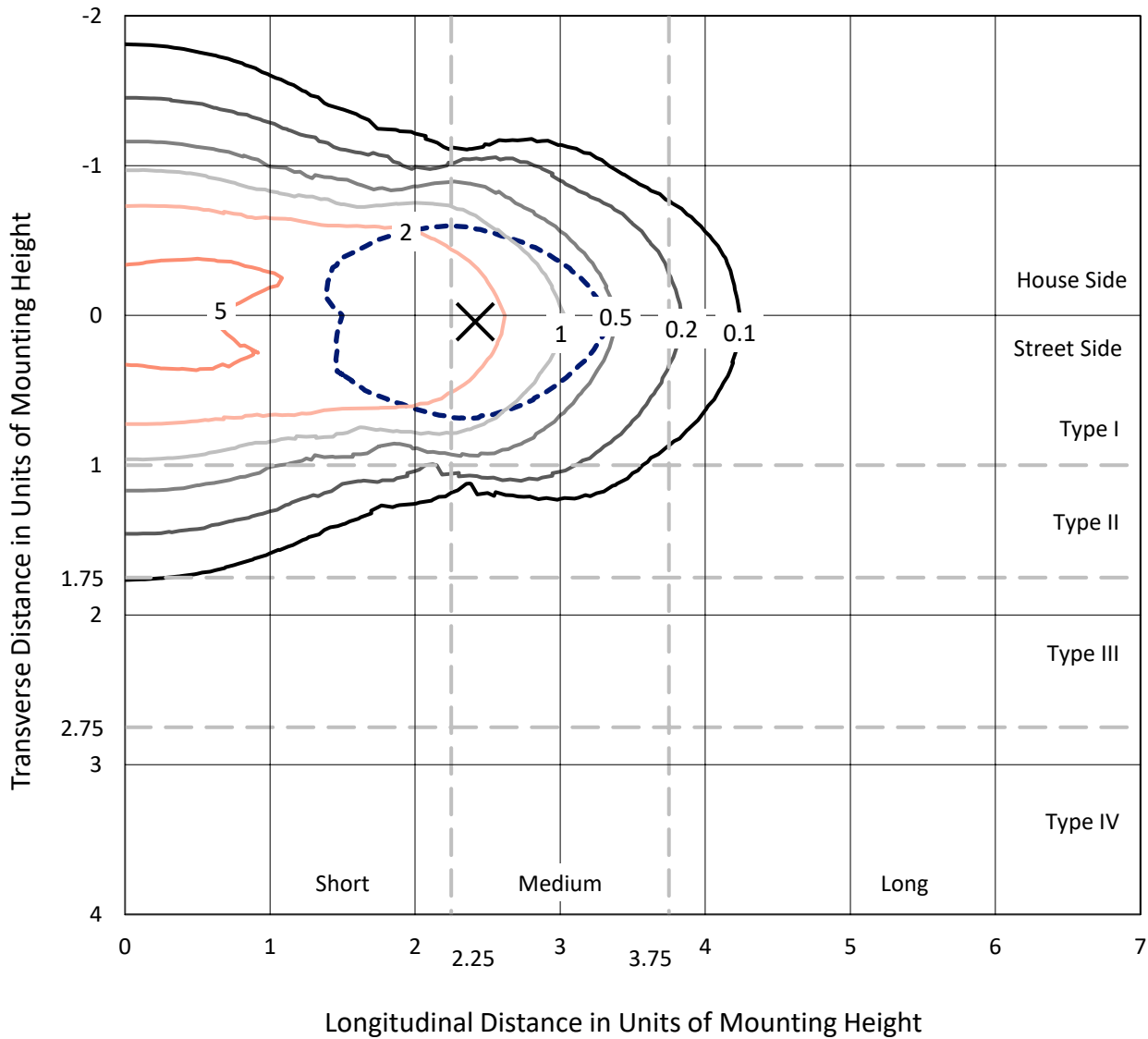
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

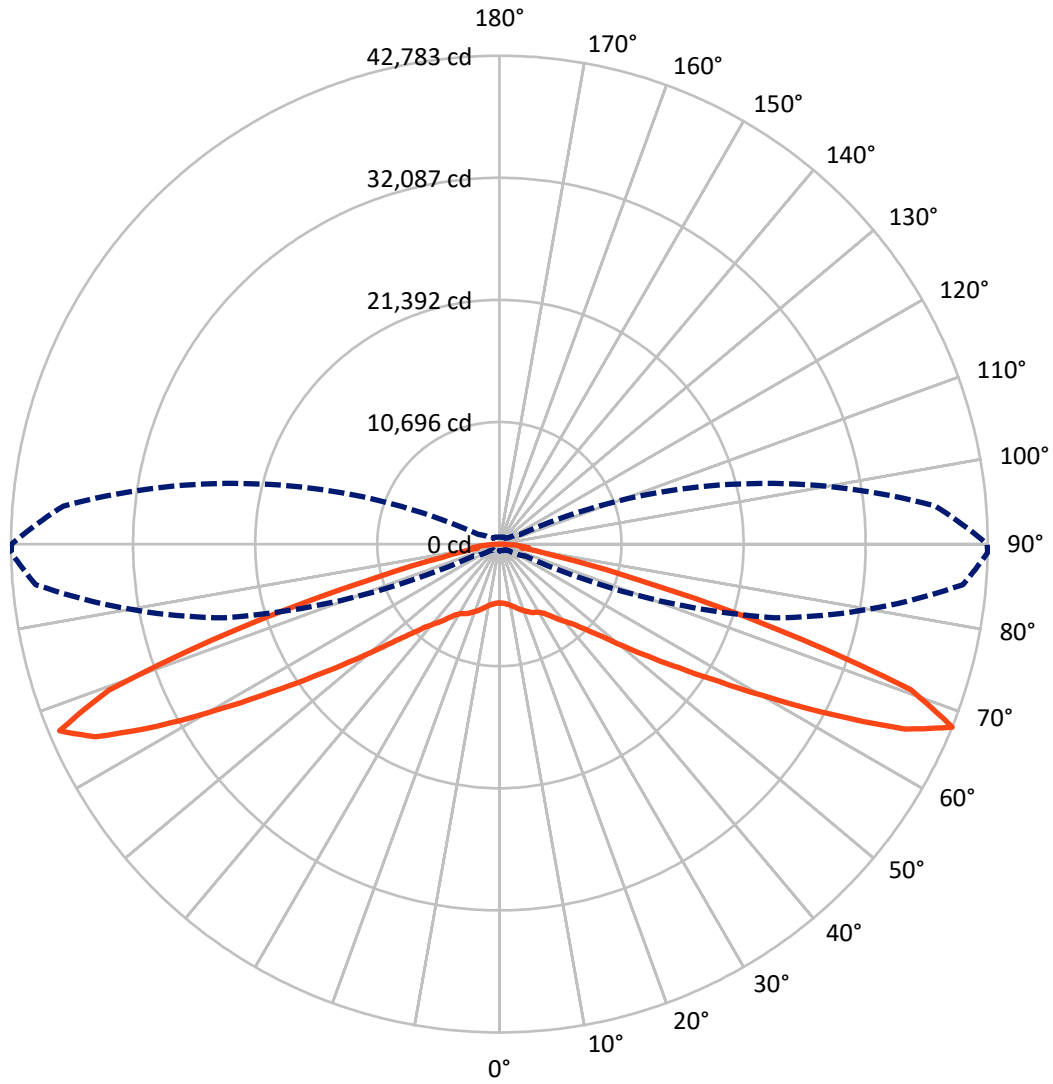
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	15202.1	0.0	15202.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15471.0	0.0	15471.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	30673.1	0.0	30673.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.4	1.7
10°-20°	1681.5	5.5
20°-30°	2842.5	9.3
30°-40°	3901.0	12.7
40°-50°	4974.6	16.2
50°-60°	6241.4	20.3
60°-70°	7527.6	24.5
70°-80°	2723.3	8.9
80°-90°	264.8	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°	30673.1	100.0
0°-180°	30673.1	100.0

Coefficient of Utilization



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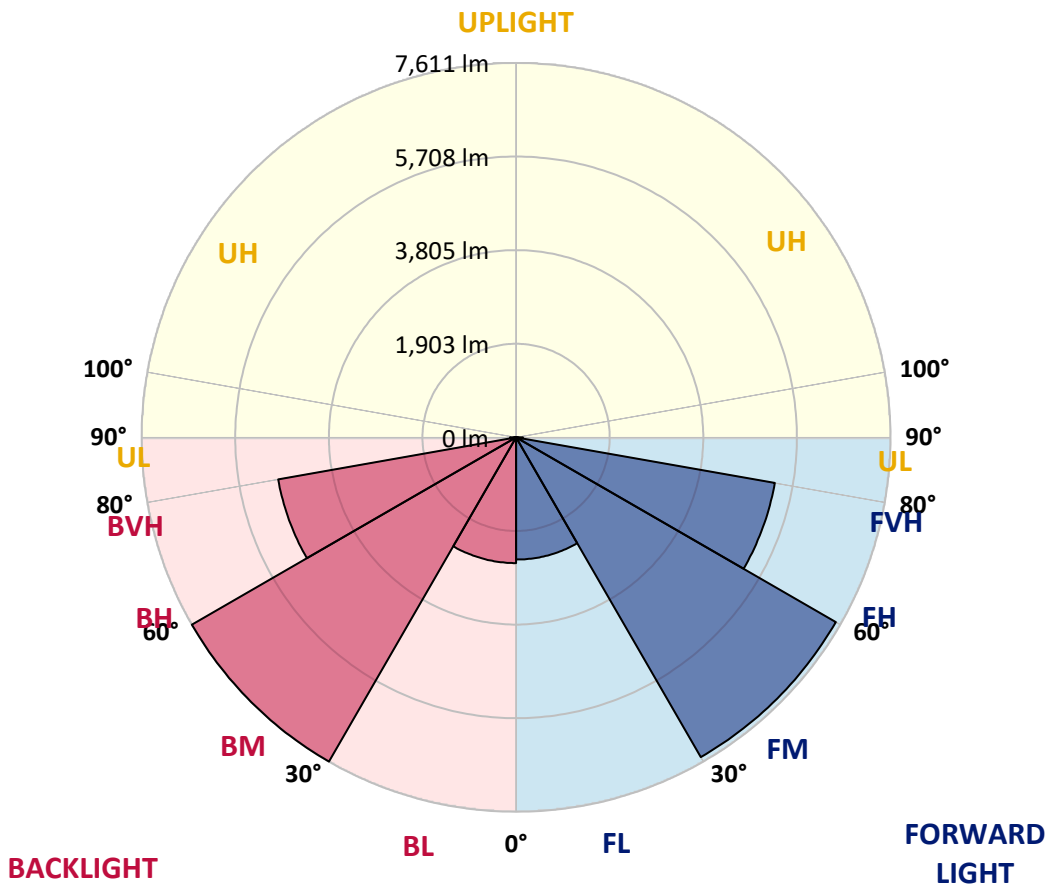
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2484.3	8.1			
FM (30°-60°)	7506.3	24.5			
FH (60°-80°)	5340.6	17.4			G3/7500
FVH (80°-90°)	139.7	0.5			G2/225
BL (0°-30°)	2556.1	8.3	B4/5000		
BM (30°-60°)	7610.6	24.8	B4/8500		
BH (60°-80°)	4910.3	16.0	B4/5000		G4/5000
BVH (80°-90°)	125.1	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°	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2
2.5°	5163.7	5159.2	5148.2	5181.3	5174.7	5176.9	5190.1	5181.3	5165.9	5139.4	5176.9
5°	5309.0	5306.8	5282.6	5302.4	5280.4	5265.0	5262.8	5240.8	5223.1	5194.5	5234.1
7.5°	5450.0	5447.8	5428.0	5463.3	5445.6	5428.0	5408.2	5364.1	5322.3	5280.4	5324.5
10°	5558.0	5555.8	5551.4	5602.0	5606.4	5613.0	5604.2	5529.3	5456.6	5406.0	5450.0
12.5°	5619.7	5626.3	5637.3	5729.8	5776.1	5820.1	5831.1	5769.5	5648.3	5575.6	5628.5
15°	5577.8	5591.0	5646.1	5813.5	5941.3	6040.4	6082.3	6031.6	5875.2	5754.0	5813.5
17.5°	5377.3	5388.4	5496.3	5751.8	6033.8	6262.9	6331.2	6300.4	6126.3	5978.7	6036.0
20°	5099.8	5124.0	5240.8	5597.6	6018.4	6417.1	6600.0	6588.9	6399.5	6172.6	6240.9
22.5°	4848.6	4877.3	5000.6	5395.0	5914.9	6456.8	6870.9	6899.6	6648.4	6366.4	6421.5
25°	4566.7	4593.1	4751.7	5154.8	5736.4	6425.9	7102.2	7232.2	6930.4	6588.9	6639.6
27.5°	4278.1	4297.9	4454.3	4883.9	5502.9	6368.7	7285.1	7597.9	7208.0	6743.1	6778.4
30°	4024.7	4051.2	4194.4	4612.9	5247.4	6254.1	7434.9	7987.8	7527.4	6917.2	6945.8
32.5°	3780.2	3802.2	3958.7	4346.4	4976.4	6077.9	7569.2	8446.0	8001.0	7241.0	7241.0
35°	3471.8	3511.5	3687.7	4090.8	4720.9	5844.4	7666.2	8979.1	8648.7	7719.0	7721.2
37.5°	3187.6	3209.7	3394.7	3802.2	4452.1	5580.0	7675.0	9532.1	9468.2	8327.1	8331.5
40°	2863.8	2892.4	3090.7	3493.8	4143.7	5302.4	7591.3	10047.5	10327.3	8952.7	8928.4
42.5°	2535.6	2577.4	2766.9	3161.2	3811.1	4963.2	7368.8	10538.8	11417.8	9677.4	9618.0
45°	2218.3	2244.8	2434.2	2806.5	3430.0	4557.8	7011.9	11010.2	12713.1	10778.9	10693.0
47.5°	1861.5	1872.5	2068.5	2425.4	3035.6	4106.2	6500.8	11431.0	14136.2	12237.2	12089.6
50°	1544.2	1559.7	1713.9	2020.1	2553.2	3570.9	5864.2	11677.7	15949.2	14226.5	13970.9
52.5°	1249.1	1264.5	1387.8	1632.4	2110.4	2960.7	5075.5	11620.4	17788.6	16696.0	16323.7
55°	1008.9	1020.0	1103.7	1295.3	1661.0	2354.9	4143.7	11107.1	19830.7	19921.0	19119.2
57.5°	852.5	856.9	914.2	1031.0	1297.5	1815.2	3198.6	9895.5	21972.0	24036.1	22718.8
60°	762.2	764.4	790.8	863.5	1024.4	1385.6	2343.9	7965.8	24190.3	29184.3	27377.9
62.5°	704.9	704.9	727.0	768.8	850.3	1066.2	1722.7	5721.0	25783.0	34786.4	32991.0
65°	649.9	649.9	665.3	700.5	744.6	870.2	1293.1	3689.9	26565.1	39469.8	39071.1
67.5°	579.4	581.6	592.6	630.0	669.7	727.0	980.3	2495.9	24941.5	40765.1	42783.0
70°	513.3	515.5	530.9	555.1	588.2	627.8	766.6	1720.5	18154.3	33951.5	38253.8
72.5°	440.6	449.4	460.4	486.8	506.7	535.3	625.6	1114.7	10563.0	21839.8	25287.4
75°	361.3	372.3	385.5	411.9	425.2	436.2	515.5	795.3	5082.1	11067.5	12602.9
77.5°	279.8	290.8	306.2	330.4	339.3	352.5	394.3	575.0	2434.2	4905.9	5289.2
80°	187.2	191.7	204.9	233.5	248.9	257.7	290.8	392.1	1057.4	1969.4	1951.8
82.5°	114.6	116.8	121.2	138.8	145.4	154.2	189.5	240.1	504.5	2238.2	2566.4
85°	41.9	39.7	37.4	48.5	57.3	66.1	88.1	121.2	220.3	1537.6	1720.5
87.5°	0.0	0.0	0.0	2.2	4.4	4.4	8.8	17.6	52.9	575.0	394.3
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°	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2	5148.2
2.5°	5165.9	5141.6	5172.5	5194.5	5243.0	5260.6	5265.0	5249.6	5249.6	5223.1	5227.5
5°	5225.3	5209.9	5260.6	5298.0	5368.5	5395.0	5412.6	5401.6	5408.2	5390.6	5395.0
7.5°	5315.7	5302.4	5390.6	5463.3	5535.9	5566.8	5582.2	5573.4	5575.6	5553.6	5560.2
10°	5441.2	5445.6	5551.4	5646.1	5743.0	5773.9	5780.5	5754.0	5732.0	5692.4	5694.6
12.5°	5613.0	5635.1	5784.9	5890.6	5989.7	6033.8	5985.3	5888.4	5798.1	5729.8	5721.0
15°	5800.3	5840.0	6055.8	6190.2	6298.2	6276.1	6132.9	5914.9	5736.4	5635.1	5615.3
17.5°	6025.0	6084.5	6355.4	6516.2	6608.8	6467.8	6168.2	5842.2	5593.2	5456.6	5430.2
20°	6236.5	6331.2	6672.7	6881.9	6892.9	6575.7	6152.8	5694.6	5381.7	5214.3	5179.1
22.5°	6430.3	6551.5	7005.3	7271.9	7128.7	6624.2	6058.0	5485.3	5126.2	4930.1	4899.3
25°	6641.8	6813.6	7393.0	7641.9	7364.4	6604.4	5859.8	5225.3	4817.8	4617.3	4595.3
27.5°	6787.2	7003.1	7782.9	8020.8	7558.2	6492.0	5604.2	4941.2	4535.8	4346.4	4315.5
30°	6954.6	7230.0	8212.5	8432.8	7677.2	6326.8	5331.1	4676.8	4273.7	4068.8	4046.8
32.5°	7258.6	7604.5	8745.6	8869.0	7714.6	6121.9	5068.9	4421.3	4000.5	3795.6	3764.8
35°	7747.7	8153.0	9494.6	9355.8	7686.0	5897.2	4820.0	4121.7	3720.7	3529.1	3498.2
37.5°	8364.5	8869.0	10329.5	9794.2	7606.7	5650.5	4524.8	3870.5	3469.6	3275.7	3258.1
40°	8939.5	9560.7	11265.8	10173.1	7445.9	5346.5	4240.6	3608.4	3198.6	2993.8	2954.1
42.5°	9659.8	10485.9	12349.6	10501.3	7181.5	4983.0	3921.2	3284.6	2859.4	2674.3	2625.9
45°	10754.7	11781.2	13609.7	10816.4	6787.2	4535.8	3520.3	2890.2	2487.1	2297.6	2260.2
47.5°	12120.5	13400.4	14975.5	11003.6	6188.0	4064.4	3066.5	2473.9	2070.7	1857.1	1839.4
50°	14039.2	15755.3	16440.4	10970.6	5518.3	3504.9	2555.4	1978.2	1641.2	1487.0	1462.7
52.5°	16376.5	18711.6	18024.3	10574.0	4806.8	2868.2	1991.4	1553.1	1301.9	1191.8	1172.0
55°	19308.6	22251.7	19691.9	9723.7	3908.0	2196.3	1564.1	1224.8	1053.0	986.9	978.1
57.5°	22939.0	26836.0	21297.9	8291.8	2938.7	1676.4	1205.0	1011.1	929.6	890.0	887.8
60°	27730.4	31702.3	22692.3	6443.6	2103.8	1282.1	995.7	903.2	839.3	812.9	810.7
62.5°	33427.2	36121.3	23560.3	4388.2	1581.7	1022.2	876.8	819.5	782.0	766.6	764.4
65°	39282.5	38914.6	23146.1	2874.8	1200.6	868.0	786.4	755.6	722.6	707.1	707.1
67.5°	42741.1	38324.3	19967.3	1995.8	951.7	762.2	709.3	680.7	625.6	612.4	612.4
70°	37857.2	31054.6	13087.6	1460.5	771.0	667.5	616.8	577.2	555.1	541.9	539.7
72.5°	25038.4	20207.4	6959.0	1013.3	643.3	568.4	522.1	506.7	480.2	467.0	464.8
75°	12461.9	10613.7	3566.5	731.4	535.3	456.0	436.2	429.6	407.5	389.9	385.5
77.5°	5194.5	4725.3	1663.2	530.9	407.5	367.9	350.3	350.3	326.0	306.2	297.4
80°	1958.4	1744.7	786.4	363.5	301.8	273.2	262.1	253.3	233.5	209.3	196.1
82.5°	2619.3	1711.7	385.5	226.9	198.3	176.2	160.8	154.2	143.2	132.2	123.4
85°	1696.3	1216.0	174.0	116.8	99.1	74.9	66.1	61.7	55.1	48.5	44.1
87.5°	345.9	407.5	52.9	22.0	13.2	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)