

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: P637882

Luminaire Tested: GWS-SA4D-760-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637882
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-SA4D-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: 24661.7 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

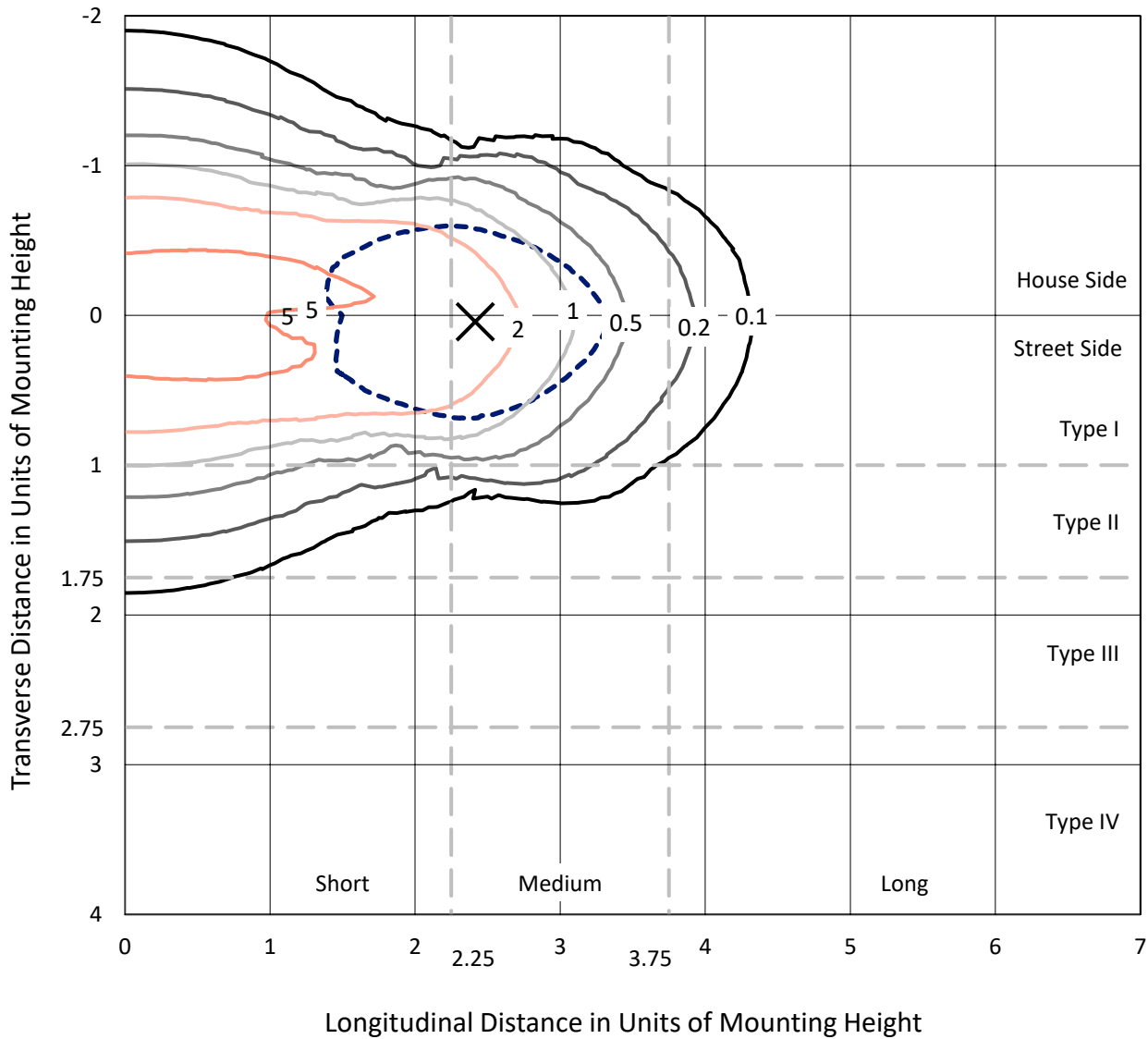
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

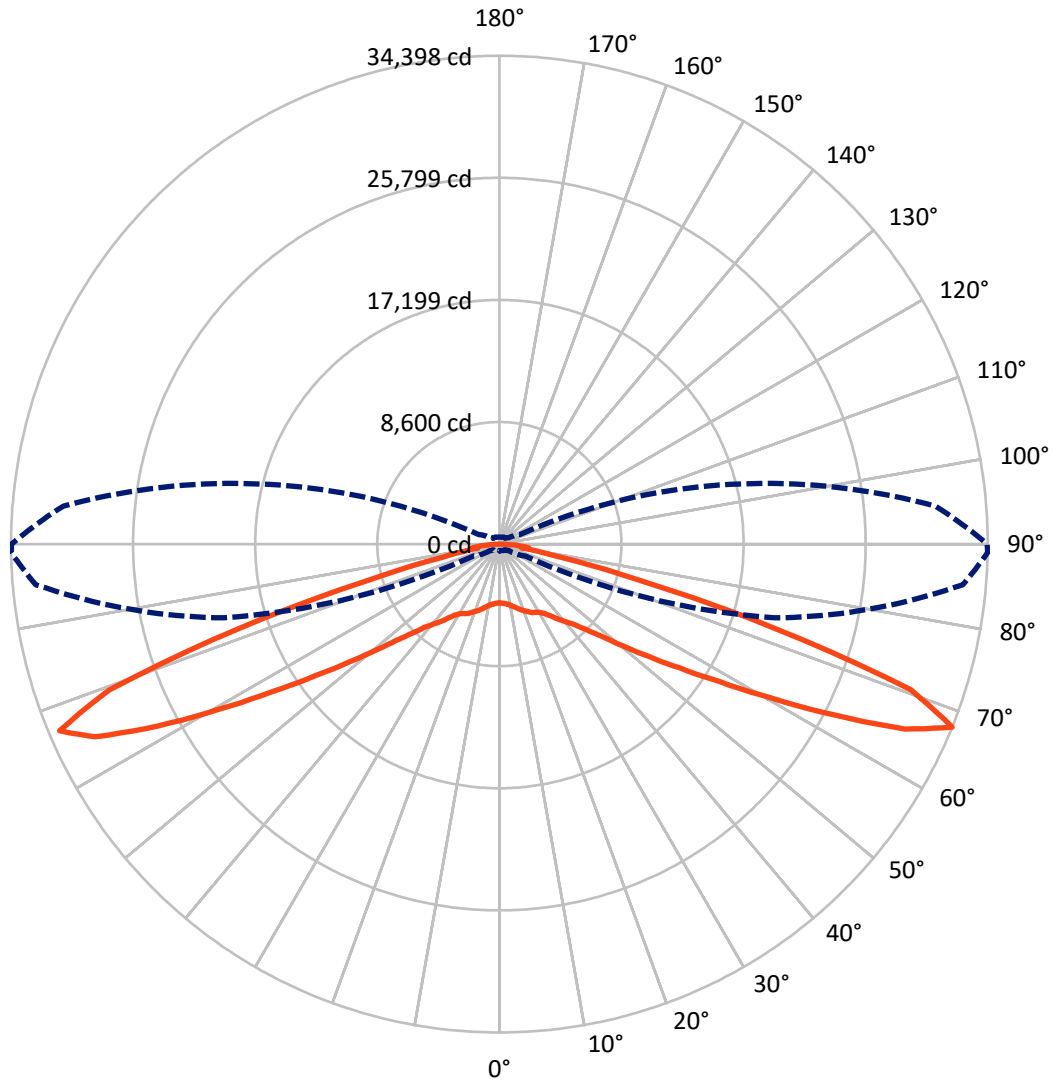
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	12222.8	0.0	12222.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12438.9	0.0	12438.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	24661.7	0.0	24661.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.2	1.7
10°-20°	1352.0	5.5
20°-30°	2285.4	9.3
30°-40°	3136.4	12.7
40°-50°	3999.7	16.2
50°-60°	5018.2	20.3
60°-70°	6052.4	24.5
70°-80°	2189.6	8.9
80°-90°	212.9	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°	24661.7	100.0
0°-180°	24661.7	100.0

Coefficient of Utilization



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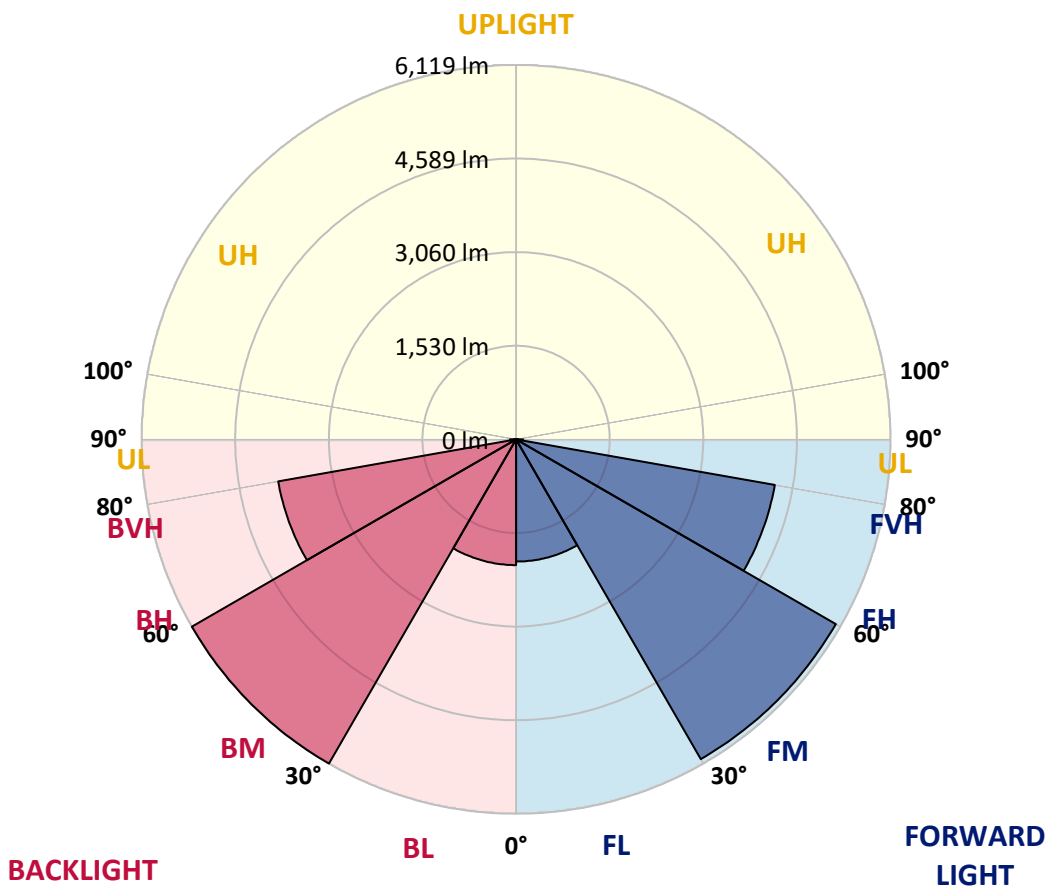
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.4	8.1			
FM (30°-60°)	6035.2	24.5			
FH (60°-80°)	4294.0	17.4			G2/5000
FVH (80°-90°)	112.4	0.5			G2/225
BL (0°-30°)	2055.2	8.3	B3/2500		
BM (30°-60°)	6119.1	24.8	B4/8500		
BH (60°-80°)	3947.9	16.0	B4/5000		G4/5000
BVH (80°-90°)	100.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3
2.5°	4151.7	4148.1	4139.3	4165.8	4160.5	4162.3	4172.9	4165.8	4153.4	4132.2	4162.3
5°	4268.6	4266.8	4247.3	4263.3	4245.5	4233.1	4231.4	4213.7	4199.5	4176.5	4208.3
7.5°	4381.9	4380.1	4364.2	4392.5	4378.4	4364.2	4348.3	4312.8	4279.2	4245.5	4281.0
10°	4468.7	4466.9	4463.4	4504.1	4507.7	4513.0	4505.9	4445.7	4387.2	4346.5	4381.9
12.5°	4518.3	4523.6	4532.5	4606.9	4644.1	4679.5	4688.3	4638.7	4541.3	4482.9	4525.4
15°	4484.6	4495.3	4539.6	4674.2	4776.9	4856.6	4890.3	4849.5	4723.8	4626.3	4674.2
17.5°	4323.5	4332.3	4419.1	4624.6	4851.3	5035.5	5090.4	5065.6	4925.7	4807.0	4853.1
20°	4100.3	4119.8	4213.7	4500.6	4838.9	5159.5	5306.5	5297.6	5145.3	4962.9	5017.8
22.5°	3898.4	3921.4	4020.6	4337.6	4755.6	5191.4	5524.3	5547.4	5345.4	5118.7	5163.0
25°	3671.7	3692.9	3820.5	4144.6	4612.2	5166.6	5710.3	5814.8	5572.2	5297.6	5338.4
27.5°	3439.6	3455.6	3581.3	3926.7	4424.4	5120.5	5857.3	6108.8	5795.3	5421.6	5449.9
30°	3236.0	3257.2	3372.3	3708.9	4219.0	5028.4	5977.8	6422.3	6052.2	5561.5	5584.6
32.5°	3039.4	3057.1	3182.8	3494.6	4001.1	4886.7	6085.8	6790.7	6433.0	5821.9	5821.9
35°	2791.4	2823.3	2965.0	3289.1	3795.7	4699.0	6163.7	7219.4	6953.7	6206.2	6208.0
37.5°	2562.9	2580.6	2729.4	3057.1	3579.6	4486.4	6170.8	7663.9	7612.6	6695.1	6698.6
40°	2302.5	2325.6	2485.0	2809.1	3331.6	4263.3	6103.5	8078.4	8303.3	7198.1	7178.6
42.5°	2038.6	2072.3	2224.6	2541.7	3064.2	3990.5	5924.6	8473.4	9180.1	7780.8	7733.0
45°	1783.6	1804.8	1957.2	2256.5	2757.7	3664.6	5637.7	8852.4	10221.5	8666.4	8597.3
47.5°	1496.7	1505.5	1663.1	1950.1	2440.7	3301.5	5226.8	9190.7	11365.7	9839.0	9720.3
50°	1241.6	1254.0	1378.0	1624.2	2052.8	2871.1	4714.9	9389.1	12823.4	11438.3	11232.9
52.5°	1004.3	1016.7	1115.8	1312.5	1696.8	2380.5	4080.8	9343.0	14302.3	13423.8	13124.5
55°	811.2	820.1	887.4	1041.5	1335.5	1893.4	3331.6	8930.3	15944.2	16016.9	15372.1
57.5°	685.4	689.0	735.0	828.9	1043.2	1459.5	2571.8	7956.2	17665.8	19325.4	18266.3
60°	612.8	614.6	635.9	694.3	823.6	1114.1	1884.5	6404.6	19449.4	23464.7	22012.3
62.5°	566.8	566.8	584.5	618.1	683.7	857.3	1385.1	4599.8	20730.0	27968.8	26525.3
65°	522.5	522.5	534.9	563.2	598.7	699.6	1039.7	2966.7	21358.8	31734.4	31413.8
67.5°	465.8	467.6	476.4	506.6	538.4	584.5	788.2	2006.8	20053.4	32775.8	34398.3
70°	412.7	414.5	426.9	446.3	472.9	504.8	616.4	1383.3	14596.4	27297.6	30756.7
72.5°	354.2	361.3	370.2	391.4	407.4	430.4	503.0	896.2	8492.8	17559.6	20331.5
75°	290.5	299.3	310.0	331.2	341.8	350.7	414.5	639.4	4086.1	8898.5	10133.0
77.5°	224.9	233.8	246.2	265.7	272.8	283.4	317.0	462.3	1957.2	3944.4	4252.6
80°	150.6	154.1	164.7	187.7	200.1	207.2	233.8	315.3	850.2	1583.4	1569.3
82.5°	92.1	93.9	97.4	111.6	116.9	124.0	152.3	193.1	405.6	1799.5	2063.4
85°	33.7	31.9	30.1	39.0	46.1	53.1	70.8	97.4	177.1	1236.3	1383.3
87.5°	0.0	0.0	0.0	1.8	3.5	3.5	7.1	14.2	42.5	462.3	317.0
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°	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3
2.5°	4153.4	4134.0	4158.8	4176.5	4215.4	4229.6	4233.1	4220.7	4220.7	4199.5	4203.0
5°	4201.3	4188.9	4229.6	4259.7	4316.4	4337.6	4351.8	4343.0	4348.3	4334.1	4337.6
7.5°	4273.9	4263.3	4334.1	4392.5	4451.0	4475.8	4488.2	4481.1	4482.9	4465.2	4470.5
10°	4374.8	4378.4	4463.4	4539.6	4617.5	4642.3	4647.6	4626.3	4608.6	4576.8	4578.5
12.5°	4513.0	4530.7	4651.1	4736.2	4815.9	4851.3	4812.3	4734.4	4661.8	4606.9	4599.8
15°	4663.5	4695.4	4869.0	4977.0	5063.8	5046.1	4931.0	4755.6	4612.2	4530.7	4514.8
17.5°	4844.2	4892.0	5109.9	5239.2	5313.6	5200.2	4959.3	4697.2	4497.0	4387.2	4366.0
20°	5014.2	5090.4	5364.9	5533.2	5542.0	5287.0	4946.9	4578.5	4327.0	4192.4	4164.1
22.5°	5170.1	5267.5	5632.4	5846.7	5731.6	5326.0	4870.8	4410.3	4121.6	3963.9	3939.1
25°	5340.1	5478.3	5944.1	6144.3	5921.1	5310.0	4711.4	4201.3	3873.6	3712.4	3694.7
27.5°	5457.0	5630.6	6257.6	6448.9	6076.9	5219.7	4505.9	3972.8	3646.9	3494.6	3469.8
30°	5591.6	5813.0	6603.0	6780.1	6172.6	5086.9	4286.3	3760.2	3436.1	3271.4	3253.7
32.5°	5836.1	6114.1	7031.6	7130.8	6202.7	4922.1	4075.5	3554.8	3216.5	3051.8	3027.0
35°	6229.3	6555.2	7633.8	7522.2	6179.7	4741.5	3875.4	3313.9	2991.5	2837.4	2812.6
37.5°	6725.2	7130.8	8305.1	7874.7	6115.9	4543.1	3638.0	3112.0	2789.6	2633.8	2619.6
40°	7187.5	7687.0	9057.9	8179.3	5986.6	4298.7	3409.5	2901.2	2571.8	2407.0	2375.2
42.5°	7766.7	8430.9	9929.3	8443.3	5774.1	4006.4	3152.7	2640.8	2299.0	2150.2	2111.3
45°	8646.9	9472.3	10942.4	8696.5	5457.0	3646.9	2830.4	2323.8	1999.7	1847.3	1817.2
47.5°	9745.1	10774.1	12040.5	8847.1	4975.3	3267.8	2465.5	1989.0	1664.9	1493.1	1478.9
50°	11287.8	12667.5	13218.4	8820.5	4436.8	2818.0	2054.6	1590.5	1319.5	1195.6	1176.1
52.5°	13167.0	15044.5	14491.9	8501.7	3864.7	2306.1	1601.2	1248.7	1046.8	958.2	942.3
55°	15524.5	17890.8	15832.7	7818.0	3142.1	1765.9	1257.5	984.8	846.6	793.5	786.4
57.5°	18443.4	21576.6	17123.9	6666.8	2362.8	1347.9	968.8	813.0	747.4	715.6	713.8
60°	22295.7	25489.2	18245.0	5180.7	1691.5	1030.8	800.6	726.2	674.8	653.6	651.8
62.5°	26876.0	29042.2	18942.9	3528.2	1271.7	821.8	704.9	658.9	628.8	616.4	614.6
65°	31583.8	31288.0	18609.9	2311.4	965.3	697.8	632.3	607.5	580.9	568.6	568.6
67.5°	34364.6	30813.4	16054.1	1604.7	765.2	612.8	570.3	547.3	503.0	492.4	492.4
70°	30437.9	24968.4	10522.6	1174.3	619.9	536.7	495.9	464.1	446.3	435.7	433.9
72.5°	20131.3	16247.1	5595.2	814.7	517.2	457.0	419.8	407.4	386.1	375.5	373.7
75°	10019.6	8533.6	2867.6	588.0	430.4	366.6	350.7	345.4	327.7	313.5	310.0
77.5°	4176.5	3799.2	1337.2	426.9	327.7	295.8	281.6	281.6	262.1	246.2	239.1
80°	1574.6	1402.8	632.3	292.2	242.7	219.6	210.8	203.7	187.7	168.3	157.6
82.5°	2105.9	1376.2	310.0	182.4	159.4	141.7	129.3	124.0	115.1	106.3	99.2
85°	1363.8	977.7	139.9	93.9	79.7	60.2	53.1	49.6	44.3	39.0	35.4
87.5°	278.1	327.7	42.5	17.7	10.6	5.3	5.3	1.8	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)