

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: P636287

Luminaire Tested: GWS-SA3F-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636287
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-SA3F-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24405.9 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

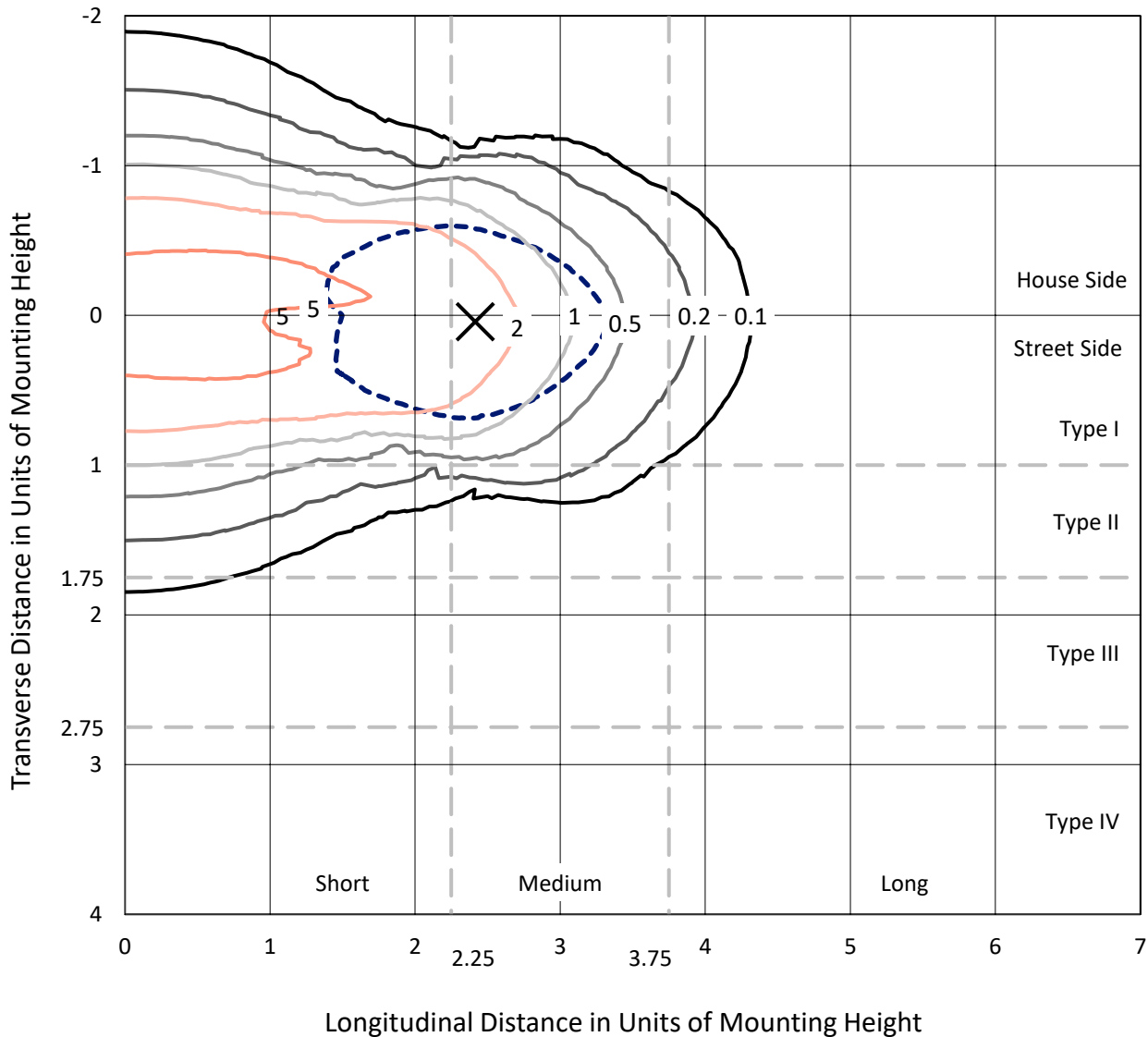
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

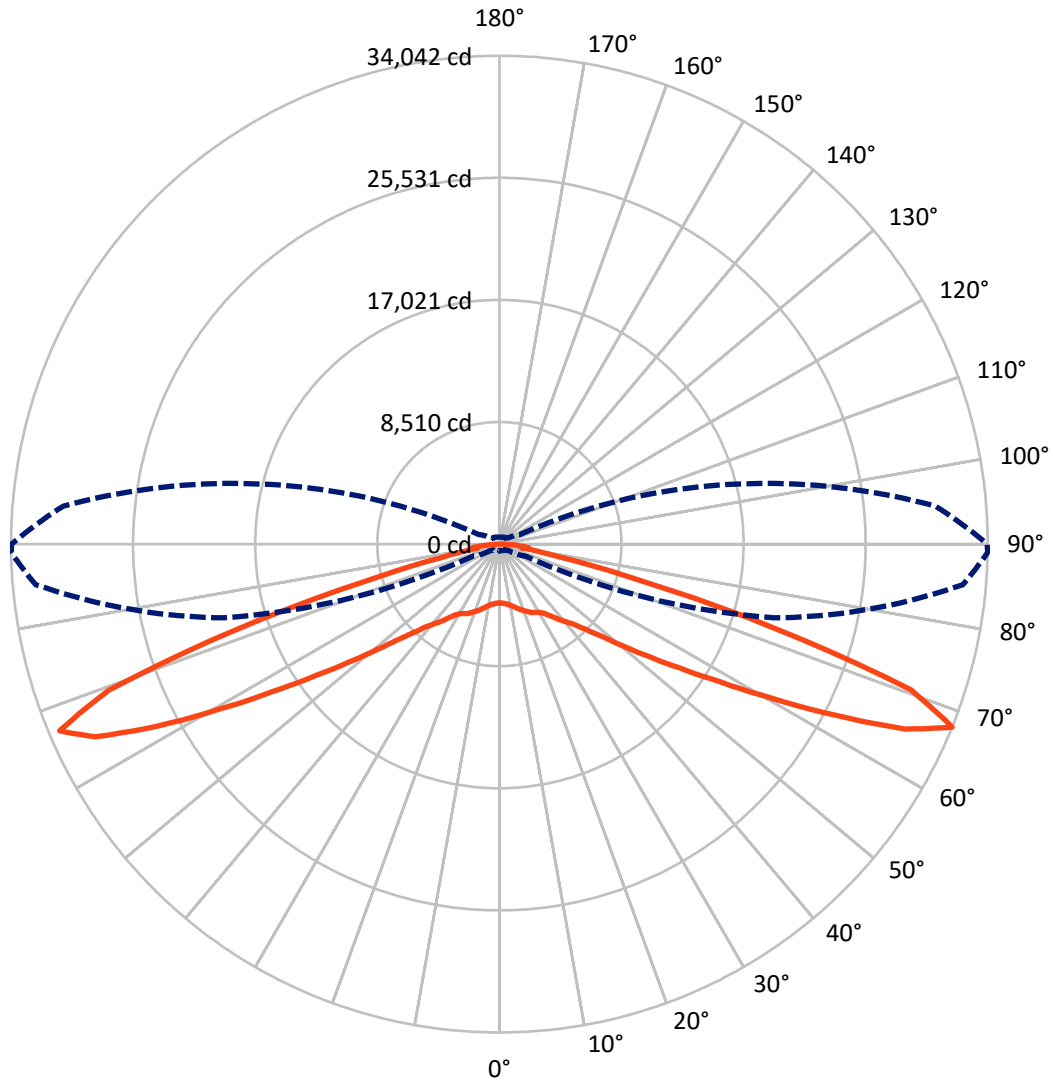
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	12096.0	0.0	12096.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12309.9	0.0	12309.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	24405.9	0.0	24405.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	1.7
10°-20°	1337.9	5.5
20°-30°	2261.7	9.3
30°-40°	3103.9	12.7
40°-50°	3958.2	16.2
50°-60°	4966.1	20.3
60°-70°	5989.6	24.5
70°-80°	2166.8	8.9
80°-90°	210.7	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°	24405.9	100.0
0°-180°	24405.9	100.0

Coefficient of Utilization



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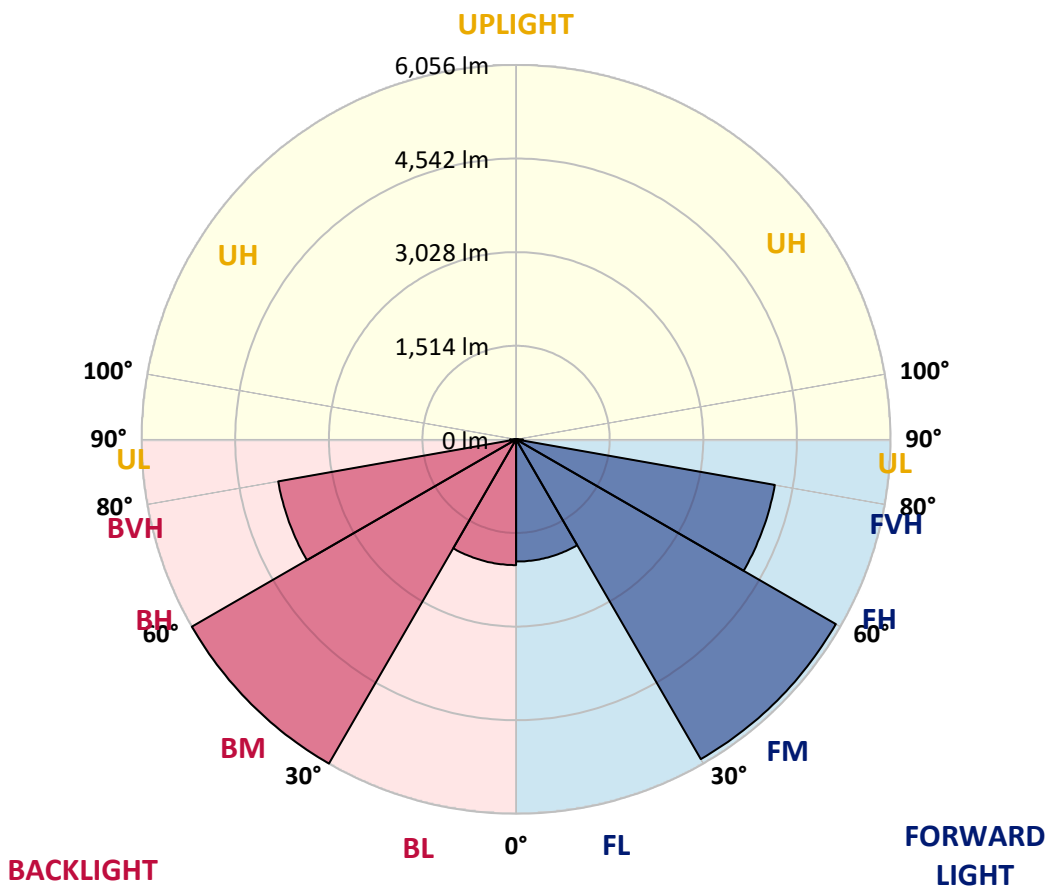
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.7	8.1			
FM (30°-60°)	5972.6	24.5			
FH (60°-80°)	4249.4	17.4			G2/5000
FVH (80°-90°)	111.2	0.5			G2/225
BL (0°-30°)	2033.8	8.3	B3/2500		
BM (30°-60°)	6055.6	24.8	B4/8500		
BH (60°-80°)	3907.0	16.0	B4/5000		G4/5000
BVH (80°-90°)	99.5	0.4			G1/100
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°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4108.6	4105.1	4096.3	4122.6	4117.4	4119.1	4129.6	4122.6	4110.4	4089.3	4119.1
5°	4224.3	4222.5	4203.3	4219.0	4201.5	4189.2	4187.5	4170.0	4155.9	4133.1	4164.7
7.5°	4336.5	4334.7	4318.9	4347.0	4333.0	4318.9	4303.2	4268.1	4234.8	4201.5	4236.6
10°	4422.4	4420.6	4417.1	4457.4	4460.9	4466.2	4459.2	4399.6	4341.7	4301.4	4336.5
12.5°	4471.4	4476.7	4485.5	4559.1	4595.9	4630.9	4639.7	4590.6	4494.2	4436.4	4478.4
15°	4438.1	4448.6	4492.5	4625.7	4727.3	4806.2	4839.5	4799.2	4674.8	4578.4	4625.7
17.5°	4278.6	4287.4	4373.3	4576.6	4801.0	4983.3	5037.6	5013.1	4874.6	4757.1	4802.7
20°	4057.8	4077.1	4170.0	4453.9	4788.7	5106.0	5251.4	5242.7	5091.9	4911.4	4965.7
22.5°	3858.0	3880.7	3978.9	4292.6	4706.3	5137.5	5467.0	5489.8	5290.0	5065.6	5109.5
25°	3633.6	3654.6	3780.8	4101.6	4564.3	5113.0	5651.1	5754.5	5514.4	5242.7	5283.0
27.5°	3404.0	3419.7	3544.2	3886.0	4378.5	5067.4	5796.6	6045.5	5735.2	5365.4	5393.4
30°	3202.4	3223.4	3337.4	3670.4	4175.2	4976.2	5915.8	6355.7	5989.4	5503.8	5526.6
32.5°	3007.8	3025.4	3149.8	3458.3	3959.6	4836.0	6022.7	6720.3	6366.2	5761.5	5761.5
35°	2762.4	2794.0	2934.2	3255.0	3756.3	4650.2	6099.8	7144.5	6881.6	6141.9	6143.6
37.5°	2536.3	2553.9	2701.1	3025.4	3542.4	4439.9	6106.8	7584.4	7533.6	6625.6	6629.2
40°	2278.7	2301.4	2459.2	2780.0	3297.0	4219.0	6040.2	7994.6	8217.2	7123.4	7104.2
42.5°	2017.5	2050.8	2201.5	2515.3	3032.4	3949.1	5863.2	8385.5	9084.9	7700.1	7652.8
45°	1765.1	1786.1	1936.9	2233.1	2729.1	3626.6	5579.2	8760.6	10115.5	8576.5	8508.2
47.5°	1481.1	1489.9	1645.9	1929.9	2415.4	3267.3	5172.6	9095.4	11247.8	9736.9	9619.5
50°	1228.7	1241.0	1363.7	1607.3	2031.5	2841.3	4666.0	9291.7	12690.4	11319.7	11116.4
52.5°	993.8	1006.1	1104.3	1298.8	1679.2	2355.8	4038.5	9246.1	14154.0	13284.6	12988.4
55°	802.8	811.6	878.2	1030.7	1321.6	1873.8	3297.0	8837.7	15778.9	15850.7	15212.7
57.5°	678.3	681.8	727.4	820.3	1032.4	1444.3	2545.1	7873.7	17482.6	19125.0	18076.8
60°	606.5	608.2	629.3	687.1	815.1	1102.5	1865.0	6338.2	19247.7	23221.3	21784.0
62.5°	560.9	560.9	578.4	611.7	676.6	848.4	1370.7	4552.1	20515.0	27678.7	26250.2
65°	517.1	517.1	529.4	557.4	592.5	692.4	1028.9	2936.0	21137.2	31405.2	31088.0
67.5°	461.0	462.7	471.5	501.3	532.9	578.4	780.0	1985.9	19845.4	32435.9	34041.5
70°	408.4	410.2	422.4	441.7	468.0	499.6	610.0	1369.0	14445.0	27014.4	30437.7
72.5°	350.6	357.6	366.3	387.4	403.1	425.9	497.8	886.9	8404.8	17377.4	20120.6
75°	287.5	296.2	306.7	327.8	338.3	347.1	410.2	632.8	4043.7	8806.2	10027.9
77.5°	222.6	231.4	243.6	262.9	269.9	280.5	313.8	457.5	1936.9	3903.5	4208.5
80°	149.0	152.5	163.0	185.8	198.1	205.1	231.4	312.0	841.4	1567.0	1553.0
82.5°	91.1	92.9	96.4	110.4	115.7	122.7	150.7	191.1	401.4	1780.9	2042.0
85°	33.3	31.6	29.8	38.6	45.6	52.6	70.1	96.4	175.3	1223.5	1369.0
87.5°	0.0	0.0	0.0	1.8	3.5	3.5	7.0	14.0	42.1	457.5	313.8
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°	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3	4096.3
2.5°	4110.4	4091.1	4115.6	4133.1	4171.7	4185.7	4189.2	4177.0	4177.0	4155.9	4159.4
5°	4157.7	4145.4	4185.7	4215.5	4271.6	4292.6	4306.7	4297.9	4303.2	4289.1	4292.6
7.5°	4229.5	4219.0	4289.1	4347.0	4404.8	4429.4	4441.6	4434.6	4436.4	4418.9	4424.1
10°	4329.5	4333.0	4417.1	4492.5	4569.6	4594.1	4599.4	4578.4	4560.8	4529.3	4531.0
12.5°	4466.2	4483.7	4602.9	4687.0	4765.9	4801.0	4762.4	4685.3	4613.4	4559.1	4552.1
15°	4615.2	4646.7	4818.5	4925.4	5011.3	4993.8	4879.8	4706.3	4564.3	4483.7	4467.9
17.5°	4794.0	4841.3	5056.9	5184.8	5258.5	5146.3	4907.9	4648.5	4450.4	4341.7	4320.7
20°	4962.2	5037.6	5309.3	5475.8	5484.6	5232.2	4895.6	4531.0	4282.1	4148.9	4120.9
22.5°	5116.5	5212.9	5574.0	5786.0	5672.1	5270.7	4820.2	4364.5	4078.8	3922.8	3898.3
25°	5284.7	5421.5	5882.5	6080.5	5859.7	5254.9	4662.5	4157.7	3833.4	3673.9	3656.4
27.5°	5400.4	5572.2	6192.7	6382.0	6013.9	5165.6	4459.2	3931.6	3609.1	3458.3	3433.8
30°	5533.6	5752.7	6534.5	6709.8	6108.6	5034.1	4241.8	3721.2	3400.5	3237.5	3219.9
32.5°	5775.5	6050.7	6958.7	7056.8	6138.4	4871.1	4033.2	3517.9	3183.1	3020.1	2995.6
35°	6164.7	6487.2	7554.6	7444.2	6115.6	4692.3	3835.2	3279.5	2960.5	2808.0	2783.5
37.5°	6655.4	7056.8	8219.0	7793.0	6052.5	4496.0	3600.3	3079.7	2760.7	2606.4	2592.4
40°	7112.9	7607.2	8963.9	8094.5	5924.5	4254.1	3374.2	2871.1	2545.1	2382.1	2350.5
42.5°	7686.1	8343.4	9826.3	8355.7	5714.2	3964.9	3120.0	2613.5	2275.2	2127.9	2089.4
45°	8557.3	9374.1	10828.9	8606.3	5400.4	3609.1	2801.0	2299.7	1978.9	1828.2	1798.4
47.5°	9644.0	10662.4	11915.7	8755.3	4923.7	3233.9	2439.9	1968.4	1647.6	1477.6	1463.6
50°	11170.7	12536.1	13081.3	8729.0	4390.8	2788.7	2033.3	1574.0	1305.8	1183.2	1163.9
52.5°	13030.4	14888.4	14341.6	8413.5	3824.6	2282.2	1584.5	1235.7	1035.9	948.3	932.5
55°	15363.4	17705.2	15668.4	7736.9	3109.5	1747.6	1244.5	974.6	837.8	785.3	778.3
57.5°	18252.1	21352.8	16946.2	6597.6	2338.3	1333.9	958.8	804.5	739.7	708.1	706.4
60°	22064.5	25224.8	18055.8	5127.0	1673.9	1020.1	792.3	718.7	667.8	646.8	645.0
62.5°	26597.2	28740.9	18746.4	3491.6	1258.5	813.3	697.6	652.0	622.3	610.0	608.2
65°	31256.2	30963.5	18416.8	2287.4	955.3	690.6	625.8	601.2	574.9	562.7	562.7
67.5°	34008.2	30493.8	15887.5	1588.1	757.2	606.5	564.4	541.6	497.8	487.3	487.3
70°	30122.2	24709.5	10413.5	1162.1	613.5	531.1	490.8	459.2	441.7	431.2	429.4
72.5°	19922.5	16078.6	5537.1	806.3	511.8	452.2	415.4	403.1	382.1	371.6	369.8
75°	9915.7	8445.1	2837.8	581.9	425.9	362.8	347.1	341.8	324.3	310.2	306.7
77.5°	4133.1	3759.8	1323.4	422.4	324.3	292.7	278.7	278.7	259.4	243.6	236.6
80°	1558.3	1388.2	625.8	289.2	240.1	217.3	208.6	201.6	185.8	166.5	156.0
82.5°	2084.1	1361.9	306.7	180.5	157.8	140.2	128.0	122.7	113.9	105.2	98.2
85°	1349.7	967.6	138.5	92.9	78.9	59.6	52.6	49.1	43.8	38.6	35.1
87.5°	275.2	324.3	42.1	17.5	10.5	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)