

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: P635792

Luminaire Tested: GWS-SA3E-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635792
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-SA3E-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: 21951.3 lumens
Efficiency: N/A
Efficacy: 137.9 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

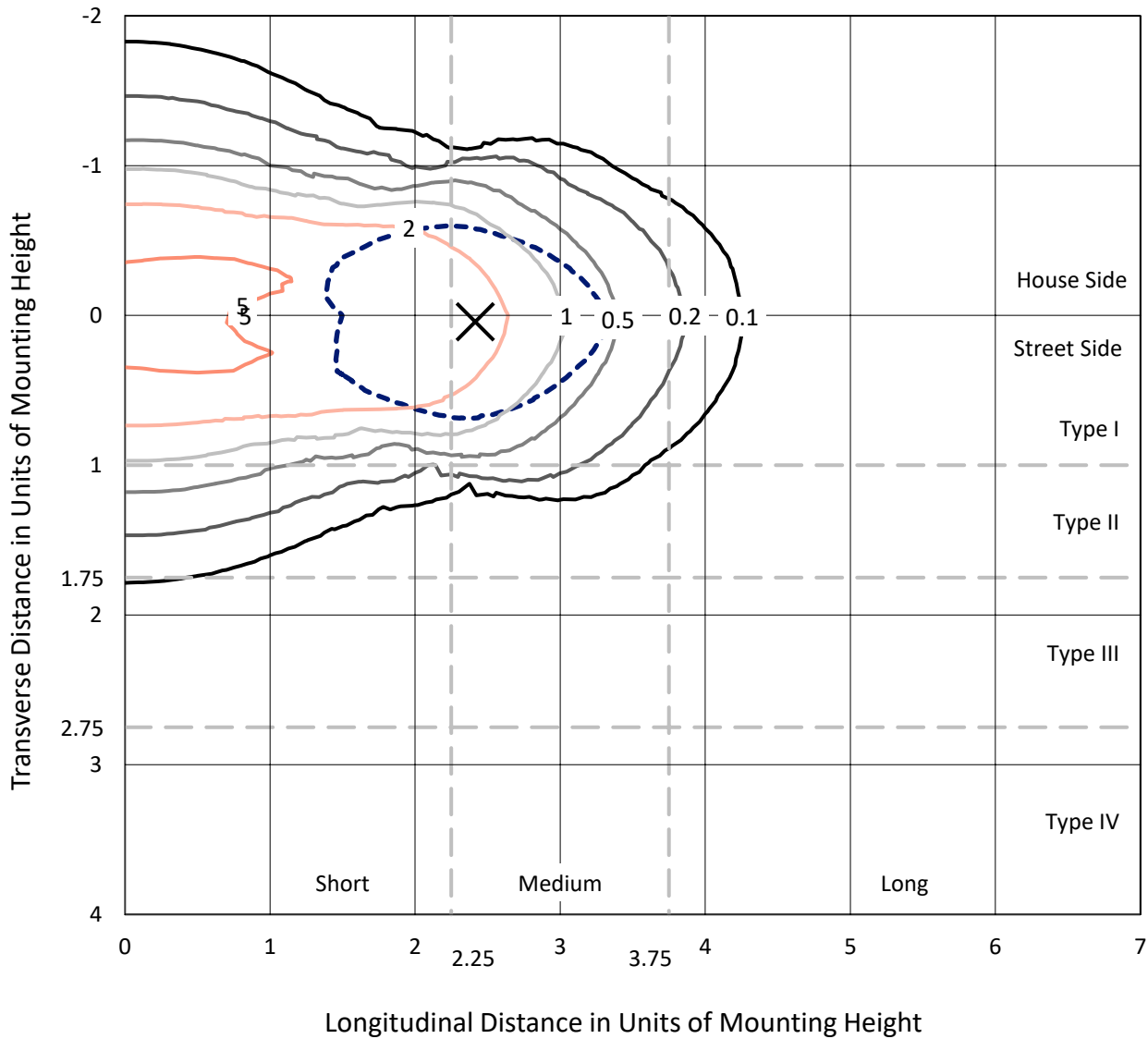
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

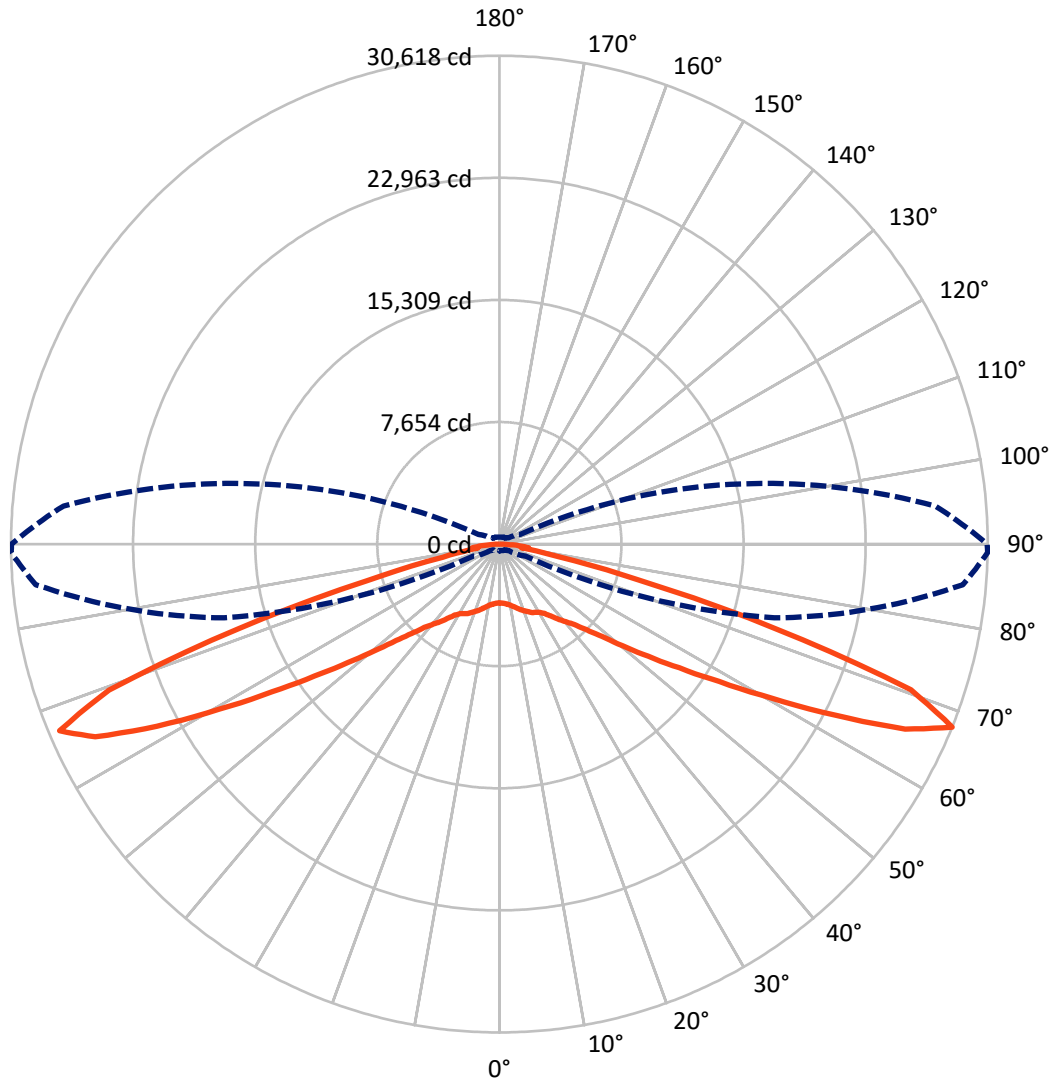
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	10879.5	0.0	10879.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11071.9	0.0	11071.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	21951.3	0.0	21951.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	1.7
10°-20°	1203.4	5.5
20°-30°	2034.2	9.3
30°-40°	2791.7	12.7
40°-50°	3560.1	16.2
50°-60°	4466.7	20.3
60°-70°	5387.2	24.5
70°-80°	1948.9	8.9
80°-90°	189.5	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°	21951.3	100.0
0°-180°	21951.3	100.0

Coefficient of Utilization



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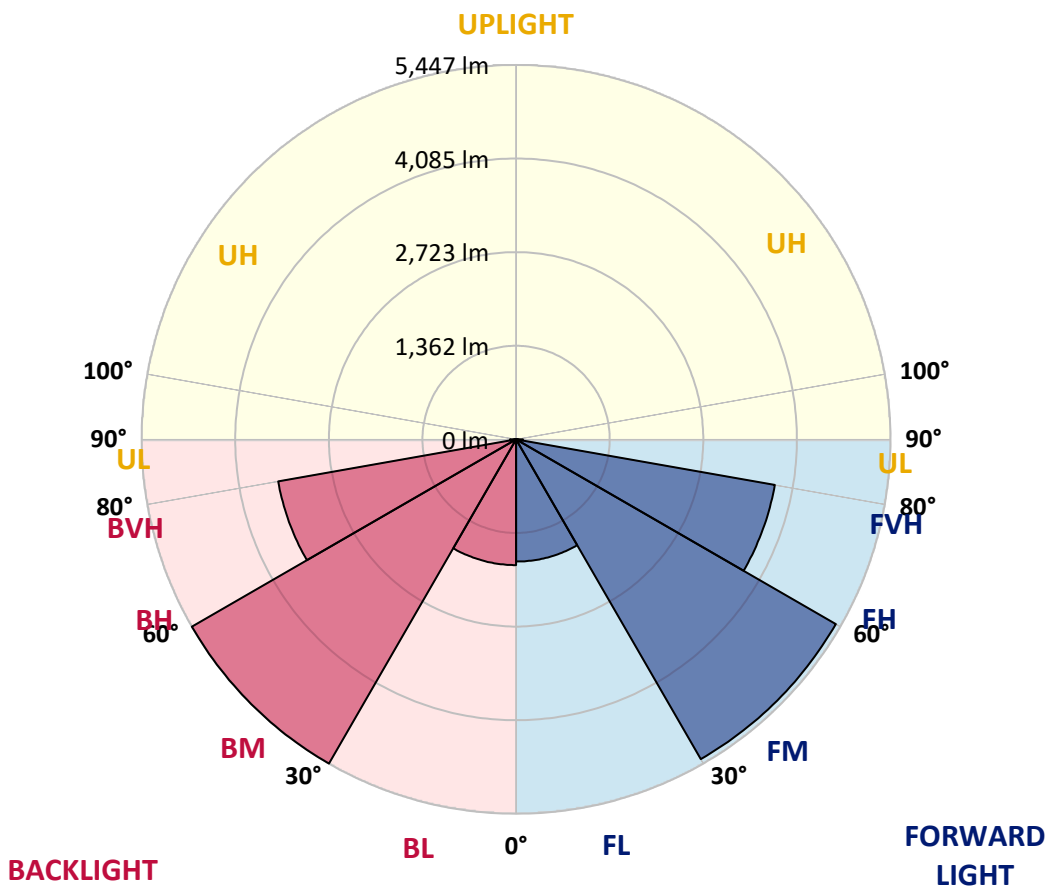
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1777.9	8.1			
FM (30°-60°)	5371.9	24.5			
FH (60°-80°)	3822.0	17.4			G2/5000
FVH (80°-90°)	100.0	0.5			G2/225
BL (0°-30°)	1829.3	8.3	B3/2500		
BM (30°-60°)	5446.6	24.8	B4/8500		
BH (60°-80°)	3514.1	16.0	B4/5000		G4/5000
BVH (80°-90°)	89.5	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°	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3
2.5°	3695.4	3692.2	3684.3	3708.0	3703.3	3704.8	3714.3	3708.0	3697.0	3678.0	3704.8
5°	3799.4	3797.9	3780.5	3794.7	3778.9	3767.9	3766.3	3750.6	3738.0	3717.5	3745.8
7.5°	3900.3	3898.8	3884.6	3909.8	3897.2	3884.6	3870.4	3838.8	3808.9	3778.9	3810.5
10°	3977.6	3976.0	3972.9	4009.1	4012.3	4017.0	4010.7	3957.1	3905.1	3868.8	3900.3
12.5°	4021.7	4026.5	4034.3	4100.6	4133.7	4165.2	4173.1	4128.9	4042.2	3990.2	4028.0
15°	3991.8	4001.2	4040.6	4160.5	4251.9	4322.8	4352.8	4316.5	4204.6	4117.9	4160.5
17.5°	3848.3	3856.2	3933.4	4116.3	4318.1	4482.1	4530.9	4508.9	4384.3	4278.7	4319.7
20°	3649.7	3667.0	3750.6	4006.0	4307.1	4592.4	4723.3	4715.4	4579.8	4417.4	4466.3
22.5°	3469.9	3490.4	3578.7	3860.9	4233.0	4620.8	4917.2	4937.7	4758.0	4556.2	4595.6
25°	3268.1	3287.1	3400.6	3689.1	4105.3	4598.7	5082.7	5175.7	4959.8	4715.4	4751.7
27.5°	3061.6	3075.8	3187.7	3495.2	3938.2	4557.7	5213.6	5437.4	5158.4	4825.8	4851.0
30°	2880.3	2899.2	3001.7	3301.3	3755.3	4475.8	5320.8	5716.5	5387.0	4950.3	4970.8
32.5°	2705.3	2721.1	2833.0	3110.5	3561.4	4349.6	5417.0	6044.4	5726.0	5182.1	5182.1
35°	2484.6	2513.0	2639.1	2927.6	3378.5	4182.5	5486.3	6425.9	6189.5	5524.2	5525.7
37.5°	2281.2	2297.0	2429.4	2721.1	3186.2	3993.3	5492.6	6821.6	6775.9	5959.3	5962.4
40°	2049.5	2070.0	2211.9	2500.4	2965.5	3794.7	5432.7	7190.5	7390.8	6407.0	6389.7
42.5°	1814.6	1844.5	1980.1	2262.3	2727.4	3551.9	5273.5	7542.1	8171.2	6925.7	6883.1
45°	1587.6	1606.5	1742.1	2008.5	2454.7	3261.8	5018.1	7879.5	9098.2	7714.0	7652.5
47.5°	1332.2	1340.0	1480.4	1735.8	2172.5	2938.7	4652.3	8180.6	10116.6	8757.6	8652.0
50°	1105.1	1116.2	1226.5	1445.7	1827.2	2555.6	4196.7	8357.2	11414.1	10181.2	9998.3
52.5°	893.9	904.9	993.2	1168.2	1510.3	2118.9	3632.3	8316.2	12730.5	11948.5	11682.1
55°	722.1	729.9	789.8	927.0	1188.7	1685.3	2965.5	7948.9	14191.9	14256.6	13682.7
57.5°	610.1	613.3	654.3	737.8	928.6	1299.1	2289.1	7081.8	15724.3	17201.5	16258.7
60°	545.5	547.1	566.0	618.0	733.1	991.6	1677.4	5700.7	17311.9	20885.9	19593.1
62.5°	504.5	504.5	520.3	550.2	608.5	763.0	1232.8	4094.2	18451.7	24895.0	23610.1
65°	465.1	465.1	476.1	501.3	532.9	622.7	925.4	2640.7	19011.4	28246.7	27961.3
67.5°	414.6	416.2	424.1	450.9	479.3	520.3	701.6	1786.2	17849.5	29173.7	30617.8
70°	367.3	368.9	379.9	397.3	420.9	449.3	548.6	1231.3	12992.2	24297.5	27376.4
72.5°	315.3	321.6	329.5	348.4	362.6	383.1	447.7	797.7	7559.5	15629.7	18097.0
75°	258.6	266.4	275.9	294.8	304.3	312.2	368.9	569.1	3637.1	7920.5	9019.3
77.5°	200.2	208.1	219.1	236.5	242.8	252.2	282.2	411.5	1742.1	3510.9	3785.2
80°	134.0	137.2	146.6	167.1	178.1	184.5	208.1	280.6	756.7	1409.4	1396.8
82.5°	82.0	83.6	86.7	99.3	104.1	110.4	135.6	171.8	361.0	1601.8	1836.7
85°	30.0	28.4	26.8	34.7	41.0	47.3	63.1	86.7	157.7	1100.4	1231.3
87.5°	0.0	0.0	0.0	1.6	3.2	3.2	6.3	12.6	37.8	411.5	282.2
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°	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3
2.5°	3697.0	3679.6	3701.7	3717.5	3752.1	3764.8	3767.9	3756.9	3756.9	3738.0	3741.1
5°	3739.5	3728.5	3764.8	3791.6	3842.0	3860.9	3873.5	3865.6	3870.4	3857.8	3860.9
7.5°	3804.2	3794.7	3857.8	3909.8	3961.8	3983.9	3994.9	3988.6	3990.2	3974.4	3979.2
10°	3894.0	3897.2	3972.9	4040.6	4110.0	4132.1	4136.8	4117.9	4102.1	4073.8	4075.3
12.5°	4017.0	4032.8	4140.0	4215.6	4286.6	4318.1	4283.4	4214.1	4149.4	4100.6	4094.2
15°	4151.0	4179.4	4333.9	4430.0	4507.3	4491.5	4389.1	4233.0	4105.3	4032.8	4018.6
17.5°	4311.8	4354.4	4548.3	4663.4	4729.6	4628.7	4414.3	4181.0	4002.8	3905.1	3886.1
20°	4463.2	4530.9	4775.3	4925.1	4933.0	4705.9	4403.2	4075.3	3851.5	3731.6	3706.4
22.5°	4601.9	4688.6	5013.4	5204.1	5101.6	4740.6	4335.5	3925.6	3668.6	3528.3	3506.2
25°	4753.2	4876.2	5290.8	5469.0	5270.3	4726.4	4193.6	3739.5	3447.9	3304.4	3288.6
27.5°	4857.3	5011.8	5569.9	5740.1	5409.1	4646.0	4010.7	3536.2	3246.1	3110.5	3088.4
30°	4977.1	5174.2	5877.3	6035.0	5494.2	4527.8	3815.2	3347.0	3058.5	2911.8	2896.1
32.5°	5194.7	5442.2	6258.8	6347.1	5521.0	4381.2	3627.6	3164.1	2863.0	2716.4	2694.3
35°	5544.7	5834.7	6794.8	6695.5	5500.5	4220.4	3449.4	2949.7	2662.8	2525.6	2503.5
37.5°	5986.1	6347.1	7392.3	7009.2	5443.8	4043.8	3238.2	2770.0	2483.0	2344.3	2331.7
40°	6397.6	6842.1	8062.4	7280.4	5328.7	3826.2	3034.8	2582.4	2289.1	2142.5	2114.1
42.5°	6913.1	7504.3	8838.0	7515.3	5139.5	3566.1	2806.2	2350.6	2046.3	1913.9	1879.2
45°	7696.6	8431.3	9739.8	7740.8	4857.3	3246.1	2519.3	2068.4	1779.9	1644.3	1617.5
47.5°	8674.1	9590.0	10717.2	7874.8	4428.5	2908.7	2194.5	1770.4	1481.9	1329.0	1316.4
50°	10047.2	11275.3	11765.6	7851.1	3949.2	2508.3	1828.8	1415.7	1174.5	1064.2	1046.8
52.5°	11719.9	13391.0	12899.2	7567.3	3440.0	2052.6	1425.2	1111.5	931.7	852.9	838.7
55°	13818.3	15924.5	14092.6	6958.8	2796.8	1571.8	1119.3	876.6	753.6	706.3	700.0
57.5°	16416.4	19205.3	15241.9	5934.1	2103.1	1199.7	862.4	723.6	665.3	636.9	635.3
60°	19845.4	22687.8	16239.8	4611.3	1505.6	917.5	712.6	646.4	600.7	581.7	580.2
62.5°	23922.3	25850.4	16861.0	3140.4	1131.9	731.5	627.5	586.5	559.7	548.6	547.1
65°	28112.7	27849.4	16564.6	2057.4	859.2	621.2	562.8	540.7	517.1	506.1	506.1
67.5°	30587.8	27426.9	14289.7	1428.3	681.1	545.5	507.6	487.1	447.7	438.3	438.3
70°	27092.7	22224.3	9366.2	1045.2	551.8	477.7	441.4	413.1	397.3	387.8	386.2
72.5°	17918.8	14461.5	4980.3	725.2	460.3	406.7	373.6	362.6	343.7	334.2	332.6
75°	8918.4	7595.7	2552.4	523.4	383.1	326.3	312.2	307.4	291.7	279.0	275.9
77.5°	3717.5	3381.7	1190.3	379.9	291.7	263.3	250.7	250.7	233.3	219.1	212.8
80°	1401.5	1248.6	562.8	260.1	216.0	195.5	187.6	181.3	167.1	149.8	140.3
82.5°	1874.5	1225.0	275.9	162.4	141.9	126.1	115.1	110.4	102.5	94.6	88.3
85°	1213.9	870.2	124.5	83.6	70.9	53.6	47.3	44.1	39.4	34.7	31.5
87.5°	247.5	291.7	37.8	15.8	9.5	4.7	4.7	1.6	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)