

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: P641020

Luminaire Tested: GWS-SA5F-722-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-722-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

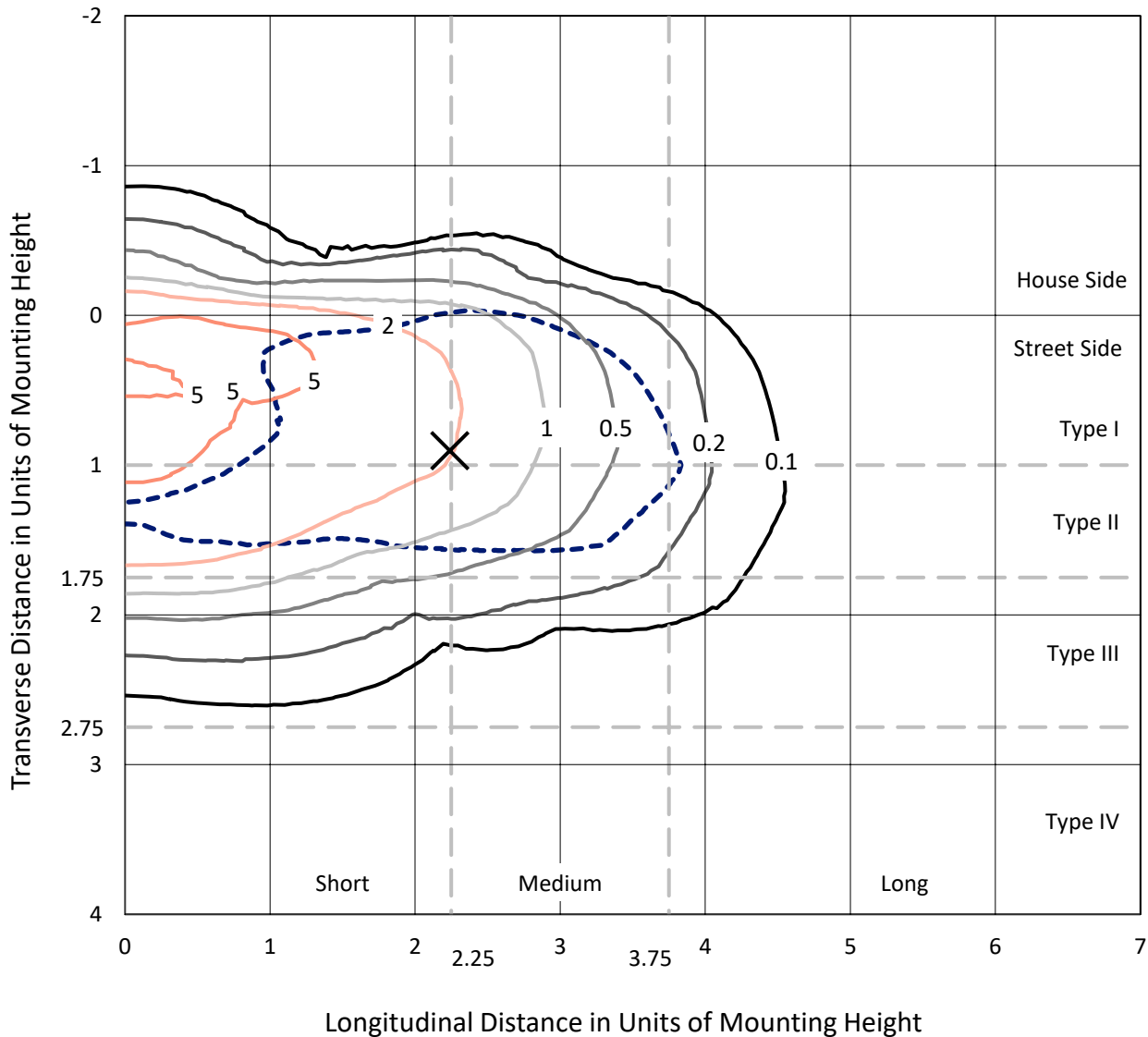
Lumens per Lamp: N/A  
Luminaire Lumens: 23029.3 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

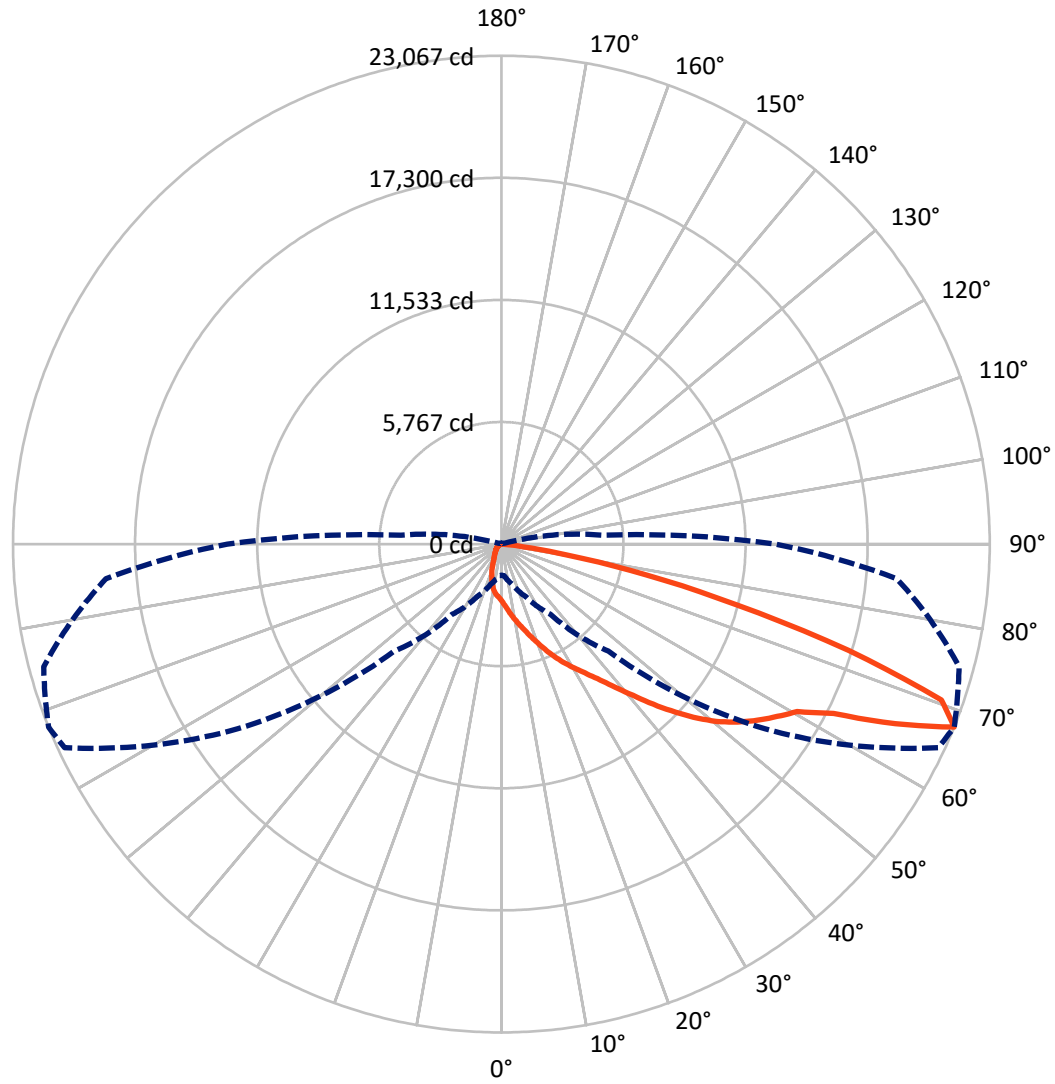
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1663.0	0.0	1663.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	21366.3	0.0	21366.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	23029.3	0.0	23029.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.4	1.1
10°-20°	750.6	3.3
20°-30°	1289.9	5.6
30°-40°	2242.7	9.7
40°-50°	3913.3	17.0
50°-60°	5902.3	25.6
60°-70°	5918.4	25.7
70°-80°	2611.2	11.3
80°-90°	139.5	0.6
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°	23029.3	100.0
0°-180°	23029.3	100.0

**Coefficient of Utilization**



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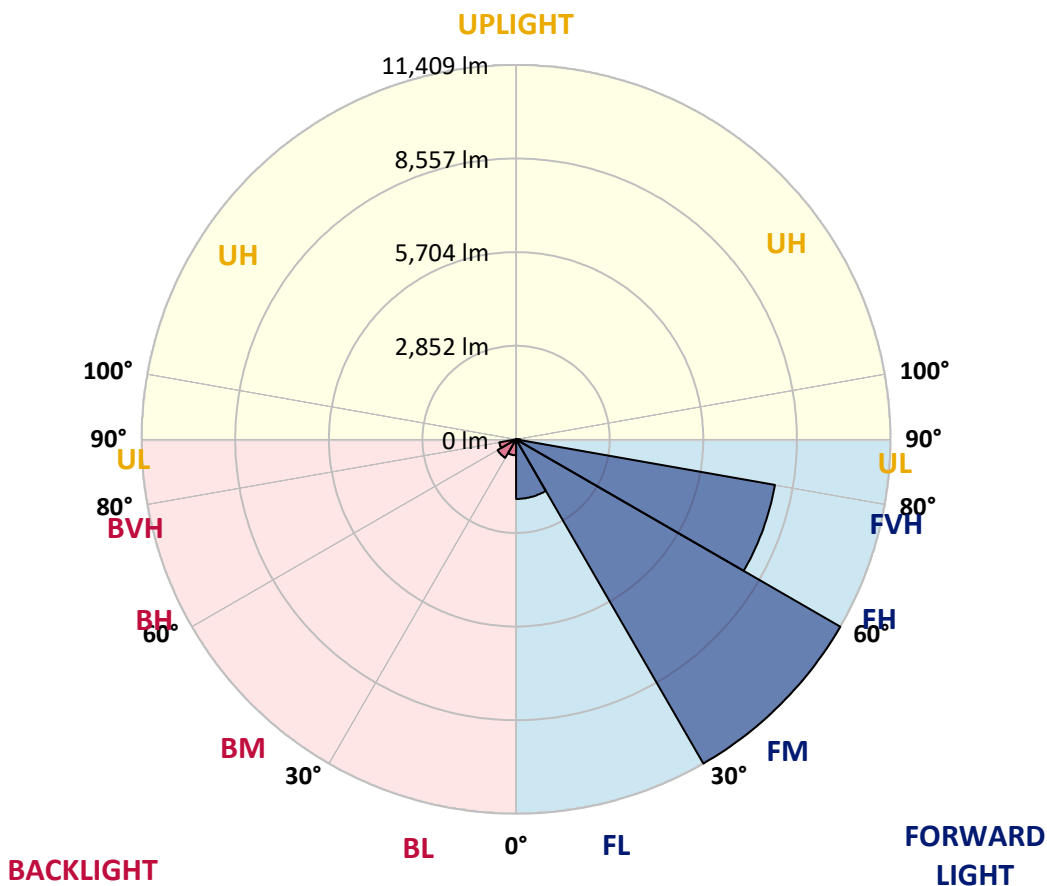
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.4	7.9			
FM (30°-60°)	11408.7	49.5			
FH (60°-80°)	8010.6	34.8			G4/12000
FVH (80°-90°)	131.6	0.6			G2/225
BL (0°-30°)	486.5	2.1	B1/500		
BM (30°-60°)	649.6	2.8	B1/1000		
BH (60°-80°)	519.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0
2.5°	3120.8	3140.7	3120.8	3125.2	3067.9	3041.5	2984.2	2904.8	2885.0	2834.3	2757.2
5°	3502.1	3519.7	3499.9	3495.5	3429.4	3380.9	3286.1	3149.5	3109.8	3010.6	2858.5
7.5°	3709.3	3720.3	3726.9	3737.9	3713.7	3674.0	3588.1	3418.4	3376.5	3215.6	3001.8
10°	3731.3	3740.1	3773.2	3839.3	3887.8	3912.0	3863.6	3707.1	3641.0	3484.5	3178.1
12.5°	3669.6	3682.8	3735.7	3845.9	3980.4	4103.8	4134.6	3998.0	3938.5	3737.9	3385.3
15°	3588.1	3599.1	3671.8	3821.7	4024.4	4251.5	4379.3	4319.8	4253.7	4044.3	3614.5
17.5°	3462.4	3477.9	3579.2	3782.0	4044.3	4368.3	4643.8	4663.6	4617.3	4390.3	3868.0
20°	3391.9	3402.9	3493.3	3702.7	4031.1	4454.2	4890.6	5077.9	5027.3	4789.2	4158.9
22.5°	3451.4	3460.2	3519.7	3682.8	3987.0	4502.7	5119.8	5492.3	5463.6	5216.8	4465.2
25°	3764.4	3793.0	3757.8	3786.4	4006.8	4529.2	5305.0	5906.6	5913.2	5664.2	4782.6
27.5°	4399.1	4361.7	4277.9	4134.6	4161.1	4599.7	5463.6	6296.7	6354.0	6100.6	5064.7
30°	5044.9	5022.8	4972.2	4749.6	4564.4	4756.2	5598.1	6695.7	6786.0	6530.4	5316.0
32.5°	5770.0	5792.0	5701.7	5435.0	5119.8	5073.5	5736.9	7074.7	7244.4	7017.4	5611.3
35°	6636.1	6642.8	6464.2	6168.9	5811.9	5598.1	5986.0	7493.5	7806.5	7639.0	6005.8
37.5°	7480.3	7519.9	7423.0	6957.9	6640.6	6250.5	6398.1	8031.3	8472.1	8405.9	6501.7
40°	8227.4	8289.1	8258.3	7808.7	7392.1	7063.7	7037.3	8661.6	9276.5	9351.4	7156.3
42.5°	8822.5	8862.2	8886.4	8566.8	8198.8	8013.6	7826.3	9393.3	10226.4	10532.8	7958.5
45°	9450.6	9463.8	9514.5	9298.5	8976.8	8992.2	8758.6	10281.5	11227.0	11841.9	8879.8
47.5°	10250.7	10294.7	10270.5	10043.5	9752.6	9926.7	9721.7	11196.2	12214.4	13239.2	9823.1
50°	11224.8	11271.1	11249.1	10984.6	10660.6	10733.3	10605.5	12084.4	13166.5	14557.2	10607.7
52.5°	11727.3	11764.8	12038.1	12157.1	11987.4	11524.5	11359.3	13060.7	13971.0	15641.6	11328.4
55°	11484.9	11511.3	12106.4	12608.9	13230.4	12767.6	12117.4	13814.5	14680.6	16487.9	11864.0
57.5°	10479.9	10623.1	11432.0	12282.7	13589.7	13995.2	13347.2	14634.3	15363.9	17076.3	12390.7
60°	8419.2	8412.5	9571.8	11099.2	12888.8	14332.4	15084.0	15742.9	16049.3	17528.2	13096.0
62.5°	4652.6	4694.5	6237.2	8249.5	10940.5	13459.6	16386.5	17658.2	17611.9	18317.2	14200.2
65°	2316.4	2400.1	3237.6	4725.3	7279.7	11123.4	16611.3	20580.7	20448.4	20175.1	16481.3
67.5°	1470.0	1503.1	1965.9	2746.1	4046.5	7149.7	15211.8	22760.4	23066.7	22379.1	18744.7
70°	952.1	1007.2	1366.5	1877.8	2442.0	3685.0	11143.3	21347.6	22050.7	22136.7	17334.2
72.5°	517.9	557.6	872.8	1340.0	1763.2	1842.5	6259.3	16020.6	17151.3	18777.8	13561.0
75°	295.3	324.0	478.3	910.2	1293.7	1121.8	2774.8	10724.5	11445.2	13420.0	9717.3
77.5°	178.5	202.8	268.9	443.0	811.1	749.3	1049.1	6528.2	6986.6	8007.0	5100.0
80°	81.5	97.0	169.7	244.6	443.0	354.8	401.1	3043.7	3142.9	3286.1	1688.2
82.5°	37.5	44.1	77.1	145.5	251.3	205.0	154.3	703.1	989.6	936.7	429.8
85°	4.4	4.4	28.7	59.5	70.5	52.9	63.9	158.7	200.6	282.1	123.4
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	13.2	19.8	28.7	46.3	30.9
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°	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0	2680.0
2.5°	2721.9	2660.2	2605.1	2523.5	2468.4	2406.7	2364.9	2314.2	2294.3	2278.9	2256.9
5°	2783.6	2684.4	2550.0	2400.1	2276.7	2159.9	2051.9	1981.4	1919.7	1910.8	1880.0
7.5°	2885.0	2737.3	2510.3	2265.7	2056.3	1862.4	1710.3	1586.9	1525.1	1505.3	1470.0
10°	3019.4	2816.7	2450.8	2076.1	1774.2	1542.8	1370.9	1232.0	1135.0	1099.8	1073.3
12.5°	3169.3	2889.4	2356.0	1842.5	1498.7	1234.2	1016.0	868.4	806.7	784.6	764.8
15°	3341.2	2957.7	2206.2	1608.9	1229.8	908.0	753.8	689.8	663.4	656.8	650.2
17.5°	3506.5	3001.8	2027.7	1366.5	945.5	705.3	632.5	608.3	601.7	595.1	590.7
20°	3693.9	3032.7	1818.3	1137.2	733.9	597.3	562.0	544.4	531.2	517.9	515.7
22.5°	3885.6	3032.7	1591.3	912.4	614.9	535.6	495.9	462.8	438.6	425.4	421.0
25°	4068.5	2990.8	1366.5	729.5	542.2	476.1	425.4	387.9	354.8	339.4	335.0
27.5°	4198.6	2882.8	1170.3	617.1	491.5	423.2	361.5	319.6	293.1	277.7	275.5
30°	4280.1	2721.9	989.6	551.0	447.4	368.1	306.4	271.1	251.3	240.2	235.8
32.5°	4341.8	2523.5	828.7	504.7	405.5	319.6	266.7	238.0	220.4	211.6	209.4
35°	4465.2	2336.2	709.7	462.8	361.5	279.9	233.6	211.6	198.4	187.3	185.1
37.5°	4637.1	2179.7	614.9	425.4	319.6	249.0	211.6	191.7	180.7	169.7	167.5
40°	4890.6	2080.5	544.4	387.9	282.1	224.8	193.9	176.3	160.9	149.9	147.7
42.5°	5280.7	2034.3	498.1	350.4	249.0	202.8	178.5	156.5	141.1	130.0	127.8
45°	5745.7	2058.5	458.4	313.0	227.0	187.3	158.7	136.6	121.2	110.2	108.0
47.5°	6243.8	2144.5	425.4	277.7	205.0	171.9	141.1	116.8	103.6	92.6	90.4
50°	6764.0	2285.5	396.7	244.6	187.3	154.3	121.2	101.4	88.2	79.3	77.1
52.5°	7215.8	2477.3	368.1	220.4	171.9	136.6	105.8	88.2	74.9	66.1	63.9
55°	7647.8	2658.0	346.0	198.4	154.3	119.0	92.6	74.9	63.9	55.1	52.9
57.5°	8117.2	2849.7	319.6	178.5	138.8	105.8	81.5	63.9	55.1	46.3	44.1
60°	8800.4	3134.0	279.9	163.1	121.2	92.6	70.5	57.3	48.5	37.5	35.3
62.5°	9785.6	3652.0	235.8	141.1	103.6	79.3	59.5	48.5	39.7	30.9	26.4
65°	11628.1	4533.6	193.9	116.8	83.8	66.1	50.7	39.7	30.9	22.0	19.8
67.5°	12954.9	4762.8	156.5	94.8	68.3	50.7	41.9	30.9	22.0	15.4	13.2
70°	11326.2	3420.6	121.2	77.1	57.3	39.7	33.1	24.2	15.4	11.0	8.8
72.5°	8533.8	2234.8	90.4	59.5	44.1	33.1	24.2	19.8	13.2	8.8	6.6
75°	6014.6	1291.5	66.1	44.1	30.9	24.2	19.8	15.4	11.0	6.6	6.6
77.5°	3083.4	533.4	46.3	30.9	22.0	15.4	13.2	8.8	8.8	6.6	4.4
80°	936.7	176.3	26.4	19.8	15.4	11.0	6.6	6.6	6.6	4.4	2.2
82.5°	213.8	57.3	15.4	15.4	11.0	8.8	6.6	2.2	2.2	0.0	0.0
85°	55.1	17.6	13.2	11.0	11.0	8.8	4.4	2.2	0.0	0.0	0.0
87.5°	19.8	11.0	11.0	11.0	8.8	6.6	4.4	0.0	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)