

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: P643338

Luminaire Tested: GWS-SA6E-760-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-760-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

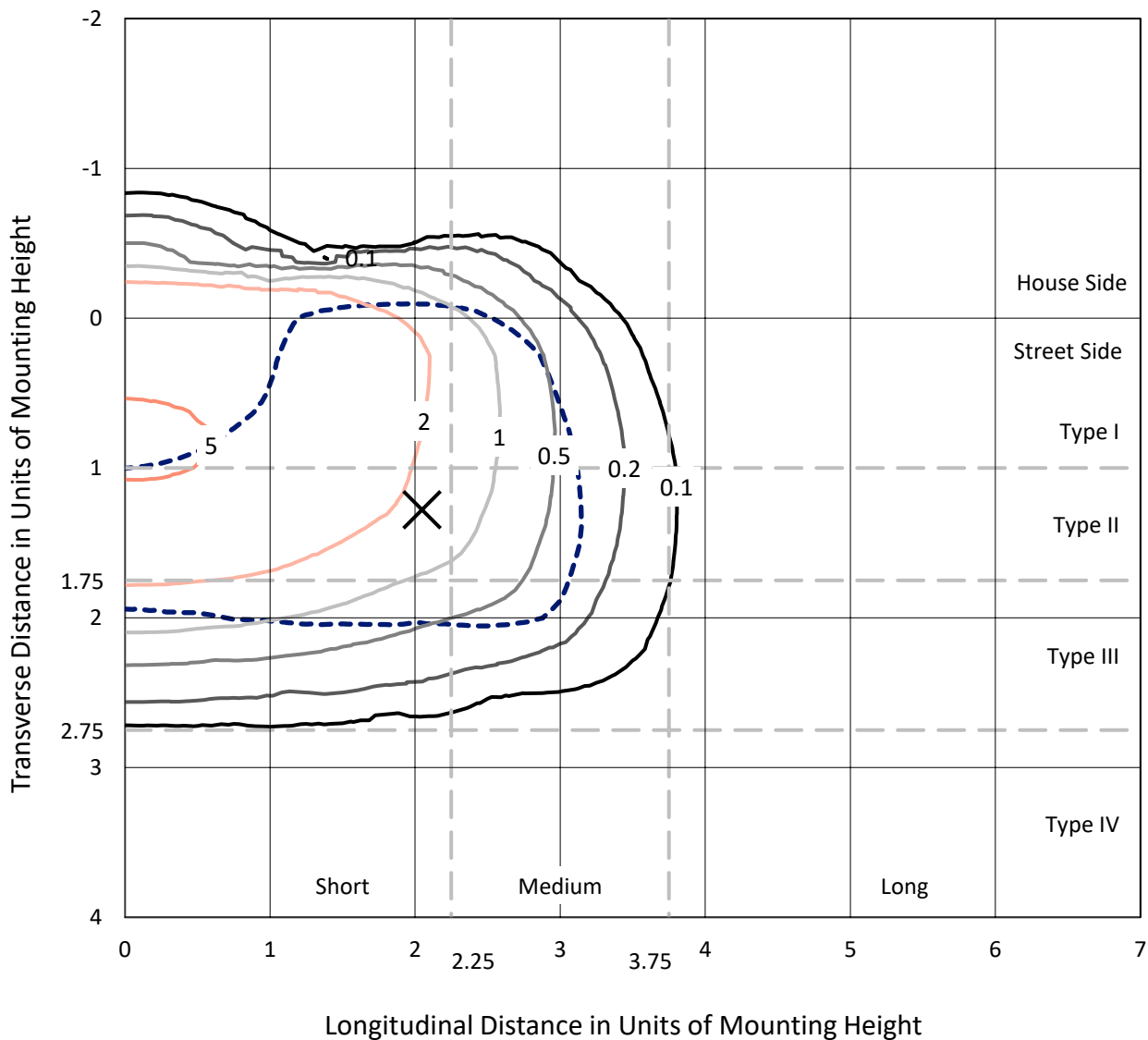
Lumens per Lamp: N/A  
Luminaire Lumens: 33156.2 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

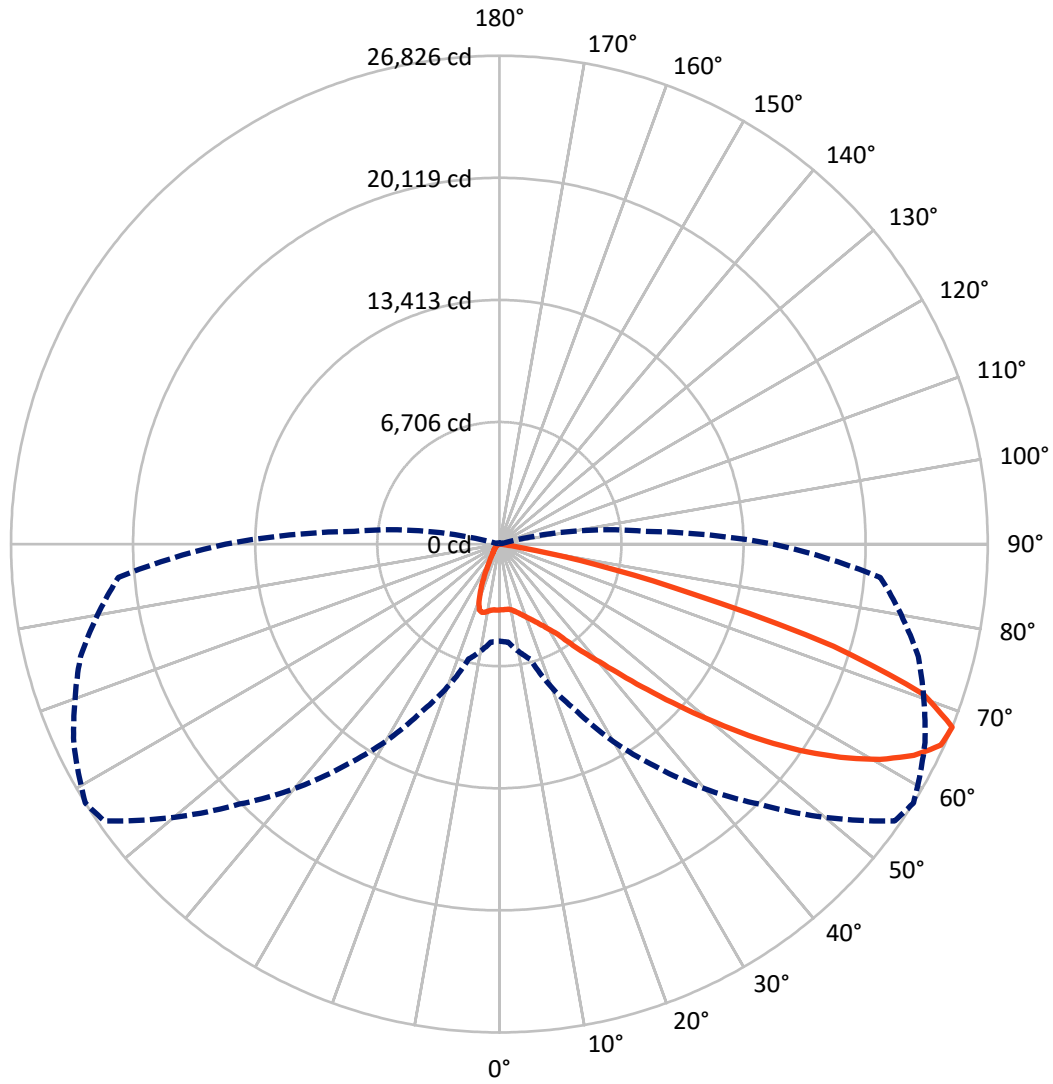
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3617.3	0.0	3617.3
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	29538.9	0.0	29538.9
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	33156.2	0.0	33156.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.4	1.0
10°-20°	952.9	2.9
20°-30°	1663.4	5.0
30°-40°	2970.6	9.0
40°-50°	5429.7	16.4
50°-60°	9030.1	27.2
60°-70°	9808.3	29.6
70°-80°	2879.8	8.7
80°-90°	82.0	0.2
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°	33156.2	100.0
0°-180°	33156.2	100.0

**Coefficient of Utilization**



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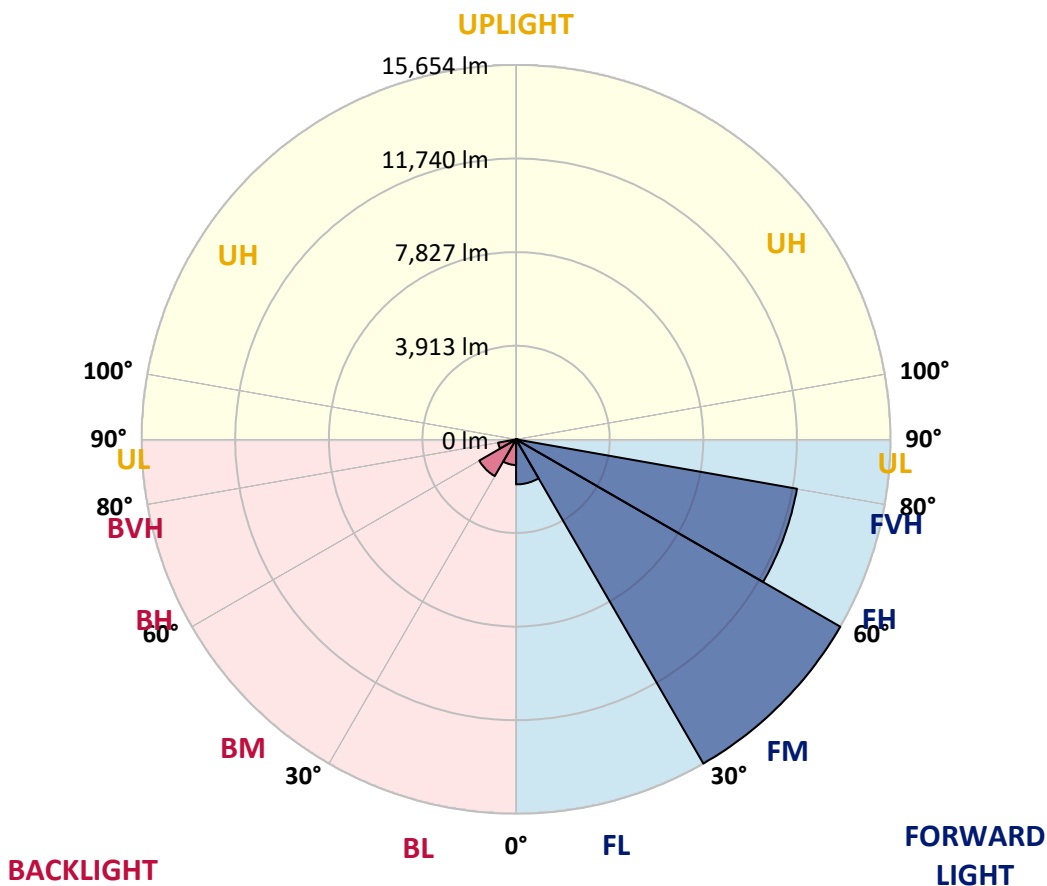
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.8	5.7			
FM (30°-60°)	15653.7	47.2			
FH (60°-80°)	11924.5	36.0			G4/12000
FVH (80°-90°)	78.0	0.2			G1/100
BL (0°-30°)	1073.0	3.2	B3/2500		
BM (30°-60°)	1776.7	5.4	B2/2500		
BH (60°-80°)	763.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0
2.5°	3545.0	3538.6	3538.6	3564.5	3567.7	3580.7	3609.8	3613.0	3629.2	3622.7	3600.1
5°	3360.5	3363.7	3383.2	3428.5	3467.3	3515.9	3587.1	3603.3	3638.9	3658.4	3645.4
7.5°	3188.9	3192.2	3221.3	3292.5	3367.0	3464.1	3580.7	3613.0	3684.3	3736.1	3739.3
10°	3124.2	3120.9	3150.1	3231.0	3328.1	3464.1	3632.5	3674.5	3781.4	3872.0	3888.2
12.5°	3143.6	3140.4	3169.5	3244.0	3350.8	3522.4	3723.1	3781.4	3917.4	4056.6	4085.7
15°	3221.3	3218.1	3237.5	3299.0	3415.5	3593.6	3839.7	3927.1	4098.7	4267.0	4312.3
17.5°	3454.4	3438.2	3418.8	3425.3	3493.2	3677.8	3988.6	4095.4	4309.1	4509.8	4548.7
20°	3868.8	3826.7	3774.9	3706.9	3674.5	3800.8	4160.2	4283.2	4542.2	4772.1	4778.5
22.5°	4493.6	4477.4	4357.7	4160.2	4021.0	4024.2	4360.9	4503.3	4820.6	5073.1	5037.5
25°	5364.5	5354.8	5170.3	4846.5	4483.9	4360.9	4616.7	4762.3	5150.8	5419.6	5306.2
27.5°	6445.8	6377.8	6160.9	5723.9	5183.2	4798.0	4940.4	5069.9	5500.5	5753.0	5539.3
30°	7387.9	7391.2	7187.2	6730.7	6122.1	5455.2	5335.4	5448.7	5821.0	6086.5	5827.5
32.5°	8294.4	8323.6	8100.2	7689.0	7022.1	6313.1	5901.9	5921.4	6232.2	6520.3	6206.3
35°	9136.2	9158.9	9003.5	8653.8	8032.2	7209.9	6691.9	6682.2	6850.5	7145.1	6734.0
37.5°	10078.3	10101.0	9948.8	9634.8	9052.0	8236.2	7588.7	7575.7	7643.7	7883.3	7413.8
40°	11081.9	11124.0	10955.7	10690.2	10133.3	9443.7	8631.1	8514.6	8446.6	8728.3	8294.4
42.5°	12098.5	12163.2	12105.0	11839.5	11363.6	10793.8	9984.4	9803.1	9657.4	10010.3	9550.6
45°	13361.1	13438.8	13412.9	13208.9	12839.9	12376.9	11612.9	11402.4	11334.4	11661.4	11114.3
47.5°	14575.2	14659.3	14753.2	14707.9	14445.7	14232.0	13383.8	13264.0	13244.6	13594.2	12746.0
50°	15478.4	15556.1	15915.5	16174.5	16352.5	16307.2	15572.3	15394.2	15365.1	15588.5	14468.3
52.5°	16125.9	16200.4	16695.7	17505.1	18159.1	18515.2	17773.8	17735.0	17576.3	17498.6	16080.6
55°	16627.7	16731.3	17252.6	18476.3	19794.0	20583.9	20121.0	19981.8	19573.8	19127.1	17576.3
57.5°	16728.1	16770.2	17505.1	19156.2	21063.1	22341.9	22341.9	22099.1	21312.4	20694.0	19305.1
60°	15828.1	15957.6	16951.5	19101.2	21607.0	23491.2	24184.0	24015.7	22953.8	22193.0	20969.2
62.5°	13830.5	13976.2	15187.1	17783.5	21063.1	23727.5	25579.4	25553.5	24355.6	23432.9	22348.4
65°	10606.0	10712.8	11768.3	14876.3	18764.5	22817.8	26576.5	26647.8	25462.8	24252.0	22824.3
67.5°	5328.9	5403.4	6543.0	10162.5	14873.0	20198.7	26508.5	26825.8	25799.5	23818.2	21008.1
70°	1861.6	1936.0	2473.4	4360.9	9052.0	15423.4	24216.4	24734.4	23821.4	20331.4	15497.8
72.5°	637.8	673.4	1026.3	1618.7	3522.4	9142.7	18414.8	19195.1	17560.1	13649.2	8906.3
75°	362.6	385.3	550.4	877.4	1476.3	3007.6	10447.4	10926.5	10236.9	7439.7	3664.8
77.5°	246.0	265.5	343.2	498.6	815.8	968.0	4260.5	5364.5	4678.2	2428.1	935.6
80°	145.7	158.6	210.4	294.6	417.6	375.5	913.0	1214.1	1563.7	725.2	281.7
82.5°	68.0	77.7	136.0	194.2	210.4	158.6	268.7	327.0	440.3	356.1	116.5
85°	0.0	0.0	45.3	80.9	77.7	45.3	74.5	80.9	119.8	178.1	45.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	6.5	9.7	19.4	35.6	19.4
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°	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0
2.5°	3626.0	3603.3	3629.2	3616.3	3629.2	3626.0	3600.1	3583.9	3583.9	3554.8	3545.0
5°	3671.3	3648.6	3655.1	3626.0	3619.5	3603.3	3570.9	3558.0	3558.0	3528.9	3519.1
7.5°	3771.7	3736.1	3729.6	3671.3	3645.4	3600.1	3541.8	3519.1	3515.9	3486.8	3477.1
10°	3930.3	3888.2	3859.1	3784.6	3710.2	3619.5	3496.5	3392.9	3334.6	3256.9	3250.4
12.5°	4124.6	4072.8	4027.4	3914.1	3791.1	3587.1	3224.5	2845.8	2612.7	2428.1	2441.1
15°	4341.5	4292.9	4221.7	4050.1	3797.6	3266.6	2509.1	1926.3	1641.4	1489.2	1482.8
17.5°	4577.8	4506.6	4390.0	4156.9	3593.6	2496.1	1631.7	1152.5	1003.6	951.8	938.9
20°	4798.0	4710.5	4564.9	4179.6	3004.4	1690.0	1019.8	893.5	867.6	851.5	851.5
22.5°	5031.1	4921.0	4704.1	4004.8	2233.9	1081.3	867.6	838.5	819.1	796.4	793.2
25°	5267.4	5124.9	4830.3	3548.3	1463.3	851.5	812.6	780.2	744.6	709.0	699.3
27.5°	5468.1	5283.6	4927.5	2868.4	938.9	767.3	741.4	686.3	637.8	598.9	592.5
30°	5707.7	5471.4	4969.5	2097.9	738.1	676.6	637.8	579.5	521.2	482.4	469.4
32.5°	6028.2	5769.2	4904.8	1366.2	654.0	595.7	534.2	466.2	407.9	365.8	359.4
35°	6526.8	6219.2	4606.9	870.9	592.5	514.8	440.3	369.1	320.5	288.1	281.7
37.5°	7135.4	6850.5	4118.1	654.0	530.9	446.8	359.4	291.4	255.8	233.1	226.6
40°	8038.7	7640.5	3512.7	573.0	469.4	378.8	294.6	239.6	213.7	194.2	187.8
42.5°	9210.6	8572.9	2816.6	521.2	411.2	317.3	239.6	197.5	174.8	161.9	158.6
45°	10580.1	9482.6	2081.7	469.4	356.1	262.2	197.5	161.9	145.7	136.0	132.7
47.5°	11981.9	10279.0	1437.4	414.4	304.3	216.9	165.1	139.2	126.3	113.3	110.1
50°	13477.7	10952.4	981.0	359.4	259.0	178.1	142.4	126.3	110.1	100.4	97.1
52.5°	14575.2	11201.7	683.1	310.8	220.1	152.2	126.3	113.3	100.4	87.4	84.2
55°	15588.5	11195.2	518.0	262.2	187.8	132.7	113.3	100.4	87.4	77.7	74.5
57.5°	16598.6	11107.8	407.9	223.4	161.9	119.8	100.4	87.4	80.9	68.0	64.7
60°	17252.6	10777.6	317.3	187.8	139.2	103.6	87.4	77.7	68.0	58.3	55.0
62.5°	17599.0	10317.9	242.8	148.9	113.3	90.6	77.7	68.0	58.3	48.6	45.3
65°	17129.5	9502.0	191.0	116.5	87.4	77.7	64.7	55.0	45.3	35.6	32.4
67.5°	15047.8	8012.8	148.9	93.9	68.0	58.3	55.0	45.3	32.4	25.9	22.7
70°	10635.1	5487.5	116.5	71.2	51.8	45.3	42.1	35.6	25.9	19.4	16.2
72.5°	5837.2	2768.1	84.2	51.8	38.8	35.6	32.4	29.1	22.7	16.2	16.2
75°	2246.8	760.8	61.5	35.6	25.9	25.9	22.7	22.7	19.4	12.9	12.9
77.5°	586.0	226.6	38.8	22.7	16.2	16.2	16.2	12.9	12.9	9.7	9.7
80°	187.8	74.5	22.7	16.2	12.9	9.7	9.7	6.5	9.7	6.5	6.5
82.5°	61.5	25.9	12.9	12.9	9.7	6.5	6.5	3.2	3.2	0.0	0.0
85°	22.7	12.9	9.7	6.5	6.5	6.5	3.2	0.0	0.0	0.0	0.0
87.5°	12.9	6.5	6.5	6.5	6.5	3.2	0.0	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)