

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: P637371

Luminaire Tested: GWS-SA4C-760-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-760-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

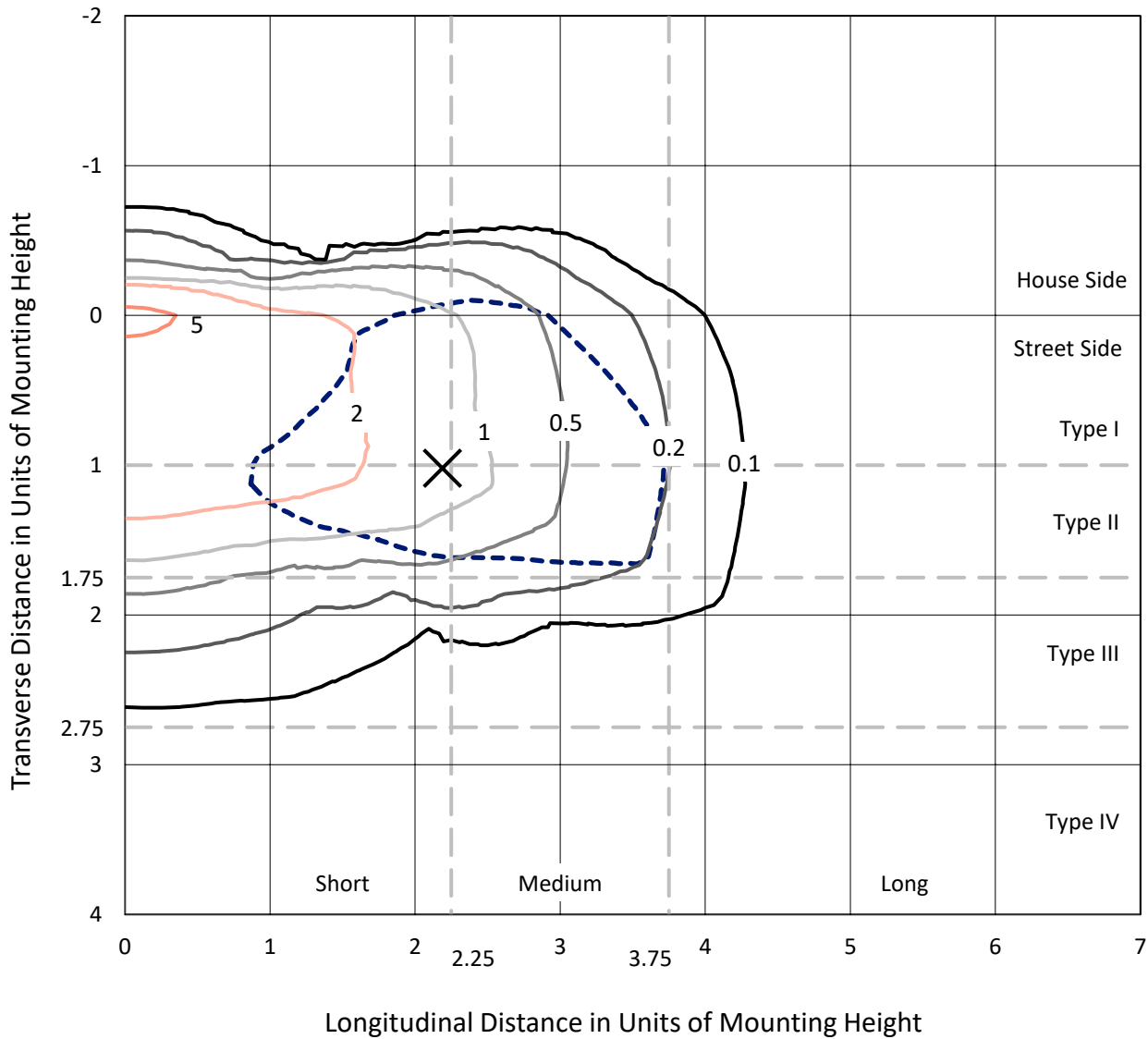
Lumens per Lamp: N/A  
Luminaire Lumens: 15524.8 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

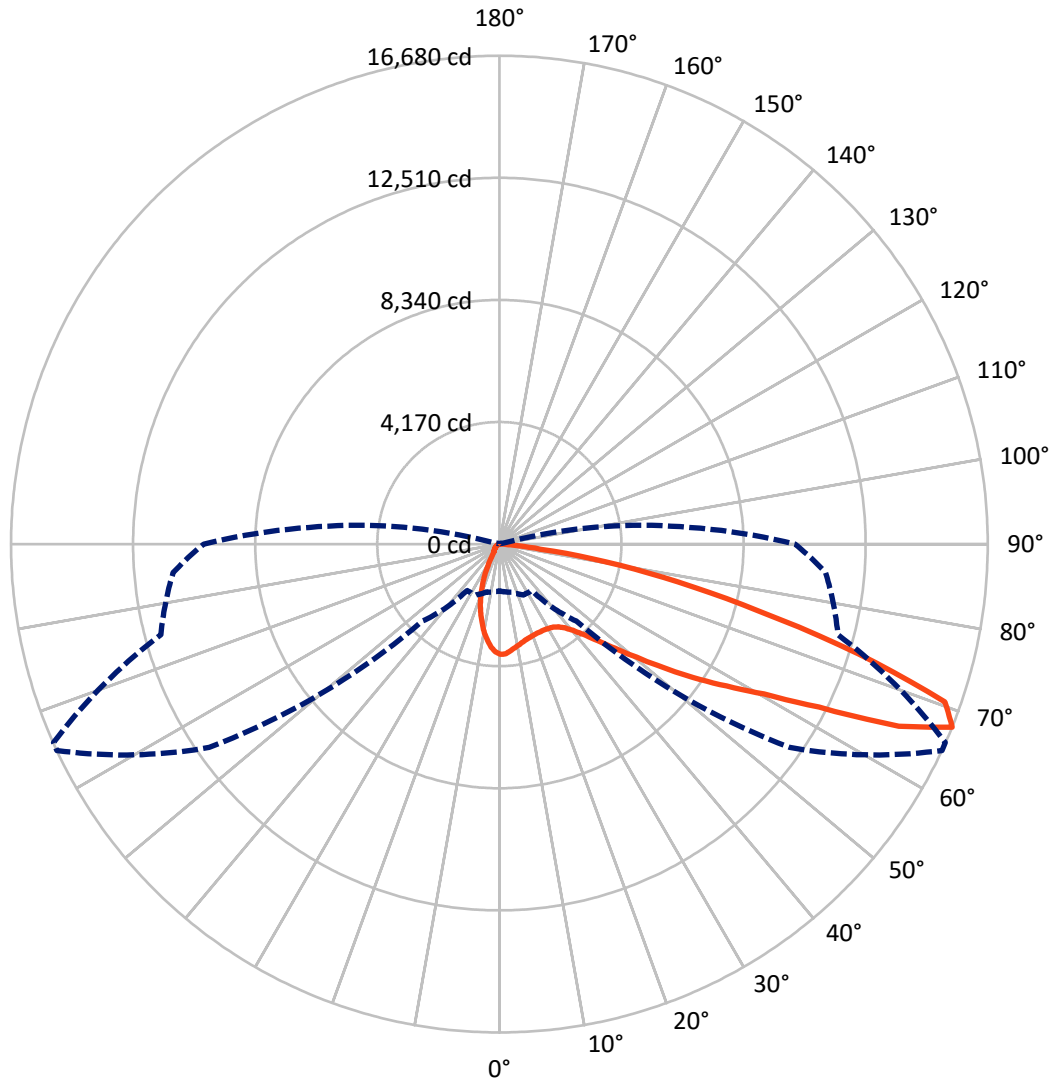
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1938.6	0.0	1938.6
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	13586.2	0.0	13586.2
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	15524.8	0.0	15524.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.7	2.0
10°-20°	703.0	4.5
20°-30°	1004.5	6.5
30°-40°	1461.5	9.4
40°-50°	2288.9	14.7
50°-60°	3570.7	23.0
60°-70°	3922.3	25.3
70°-80°	2087.4	13.4
80°-90°	173.8	1.1
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°	15524.8	100.0
0°-180°	15524.8	100.0

**Coefficient of Utilization**



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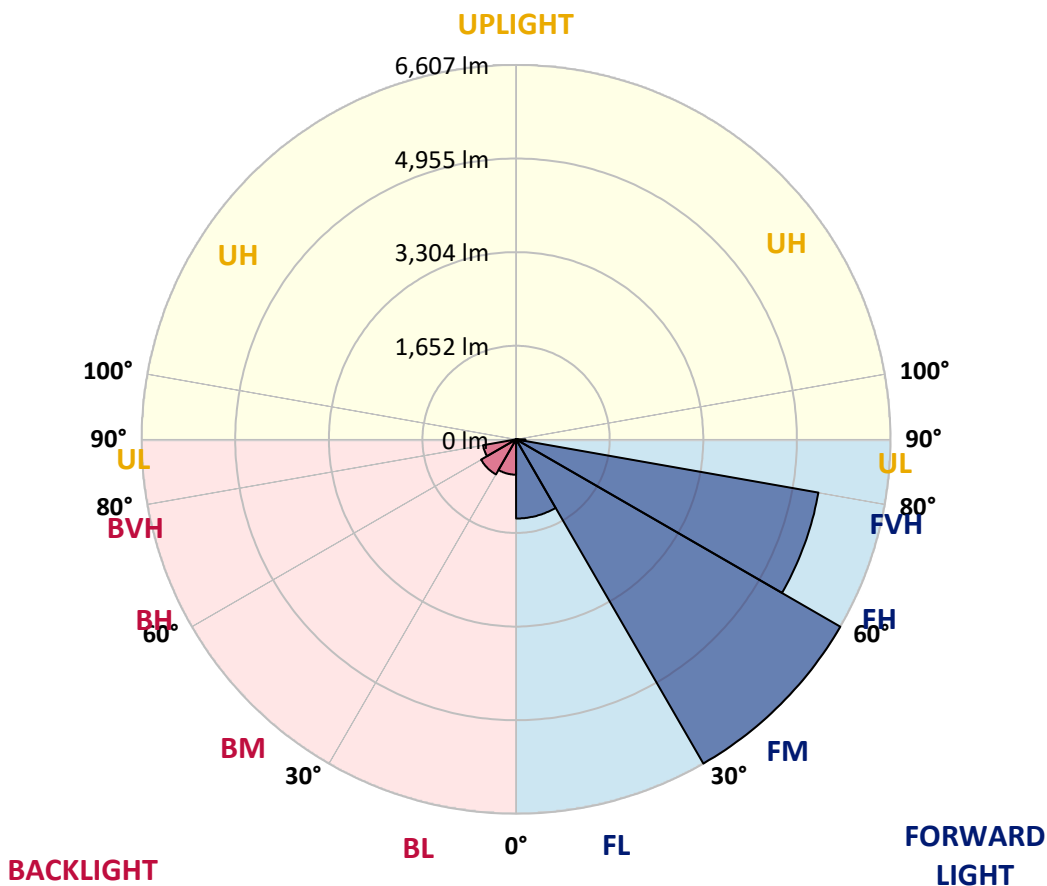
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.1	9.0			
FM (30°-60°)	6607.0	42.6			
FH (60°-80°)	5417.6	34.9			G3/7500
FVH (80°-90°)	164.5	1.1			G2/225
BL (0°-30°)	623.1	4.0	B2/1000		
BM (30°-60°)	714.1	4.6	B1/1000		
BH (60°-80°)	592.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3
2.5°	3634.7	3645.9	3630.5	3668.4	3675.4	3717.5	3741.4	3758.2	3756.8	3777.9	3777.9
5°	3421.3	3432.5	3424.1	3464.8	3497.1	3563.1	3617.8	3681.0	3683.8	3748.4	3772.3
7.5°	3240.2	3241.6	3241.6	3292.1	3334.3	3415.7	3497.1	3594.0	3605.2	3704.9	3768.1
10°	3091.4	3095.6	3097.0	3154.6	3200.9	3299.2	3403.0	3519.6	3532.2	3667.0	3765.3
12.5°	2988.9	2990.3	2995.9	3056.3	3106.8	3209.3	3314.6	3448.0	3464.8	3623.5	3752.6
15°	2939.8	2937.0	2939.8	2990.3	3040.8	3139.1	3247.2	3390.4	3408.7	3587.0	3754.0
17.5°	2937.0	2932.7	2929.9	2967.8	3000.1	3087.2	3196.7	3352.5	3372.2	3570.1	3769.5
20°	2977.7	2974.9	2960.8	2977.7	2984.7	3056.3	3164.4	3323.0	3342.7	3567.3	3803.2
22.5°	3084.4	3077.3	3056.3	3040.8	3002.9	3045.1	3141.9	3302.0	3324.4	3574.3	3846.7
25°	3243.0	3240.2	3213.5	3175.6	3078.7	3061.9	3143.3	3302.0	3323.0	3582.7	3893.0
27.5°	3481.7	3464.8	3431.1	3365.1	3226.2	3127.9	3171.4	3310.4	3331.4	3594.0	3930.9
30°	3724.5	3723.1	3711.9	3644.5	3438.1	3254.2	3230.4	3332.9	3352.5	3603.8	3966.0
32.5°	3975.8	3980.0	4008.1	3956.2	3730.2	3442.4	3337.1	3379.2	3393.2	3623.5	3996.9
35°	4214.5	4222.9	4297.3	4315.6	4085.3	3727.3	3511.1	3471.8	3473.2	3667.0	4037.6
37.5°	4443.3	4471.4	4590.7	4679.2	4527.6	4072.7	3762.4	3629.1	3617.8	3754.0	4099.4
40°	4703.1	4756.4	4906.6	5056.8	5009.1	4529.0	4105.0	3870.5	3846.7	3914.1	4210.3
42.5°	4990.9	5048.4	5247.8	5458.4	5480.8	5080.7	4533.2	4222.9	4182.2	4183.6	4418.1
45°	5299.7	5376.9	5608.6	5911.8	6048.0	5695.6	5061.1	4698.8	4658.1	4597.8	4752.2
47.5°	5705.4	5772.8	5996.0	6345.6	6606.7	6355.4	5753.2	5310.9	5236.5	5148.1	5271.6
50°	6055.0	6114.0	6306.3	6744.3	7287.6	7206.2	6538.0	6076.1	6004.5	5854.3	5956.7
52.5°	6132.2	6178.6	6355.4	6848.2	7808.5	8280.2	7499.6	7001.2	6950.7	6672.7	6712.0
55°	5785.5	5855.7	6014.3	6561.8	7944.7	9330.3	8747.7	8044.3	7939.0	7495.4	7565.6
57.5°	4909.4	5034.4	5183.2	5895.0	7575.4	9889.1	10491.3	9149.2	9053.7	8287.2	8288.6
60°	3598.2	3699.3	3798.9	4450.4	6699.4	9851.1	12073.5	10390.2	10216.2	8934.4	8910.5
62.5°	2616.9	2668.8	2667.4	2899.0	4600.6	9202.5	12904.6	12260.2	11854.5	9626.5	9490.3
65°	2058.1	2056.7	2117.1	2192.9	2569.1	7103.7	13007.1	14990.8	14552.8	10554.5	10270.9
67.5°	1601.8	1632.7	1693.1	1916.3	1930.4	3717.5	12105.8	16679.7	16671.3	11971.0	11184.9
70°	1235.4	1277.5	1363.2	1688.9	1782.9	2080.6	9057.9	16144.8	16281.0	12604.2	10537.7
72.5°	793.2	790.4	916.7	1364.6	1712.8	1733.8	5009.1	12824.6	12979.0	11416.5	8520.3
75°	443.6	446.4	518.0	835.3	1596.2	1631.3	2480.7	9145.0	9267.1	8900.7	6546.4
77.5°	174.1	179.7	242.9	439.4	1052.9	1457.2	1474.1	6236.1	6254.4	5515.9	4015.1
80°	70.2	74.4	123.5	272.4	641.6	981.3	1052.9	3674.0	3599.6	2135.3	1168.0
82.5°	21.1	22.5	49.1	154.4	335.5	697.7	710.4	1409.5	1330.9	459.1	297.6
85°	1.4	1.4	11.2	47.7	119.3	175.5	473.1	459.1	407.1	115.1	132.0
87.5°	0.0	0.0	1.4	1.4	2.8	5.6	50.5	84.2	85.6	21.1	59.0
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°	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3	3765.3
2.5°	3777.9	3727.3	3723.1	3683.8	3644.5	3595.4	3537.8	3495.7	3466.2	3414.3	3404.5
5°	3772.3	3704.9	3641.7	3529.4	3404.5	3269.7	3151.7	3042.2	2973.5	2927.1	2907.5
7.5°	3761.0	3675.4	3529.4	3317.4	3108.2	2872.4	2688.5	2520.0	2404.9	2337.5	2308.0
10°	3752.6	3637.5	3400.2	3078.7	2754.4	2428.7	2149.4	1899.5	1760.5	1651.0	1632.7
12.5°	3735.8	3582.7	3234.6	2799.4	2381.0	1948.6	1592.0	1286.0	1074.0	978.5	944.8
15°	3718.9	3525.2	3068.9	2504.6	1973.9	1440.4	1008.0	713.2	567.2	522.2	519.4
17.5°	3716.1	3473.2	2889.2	2225.2	1547.1	943.4	574.2	461.9	431.0	419.8	419.8
20°	3724.5	3429.7	2712.3	1903.7	1127.3	574.2	428.2	400.1	381.9	372.0	372.0
22.5°	3733.0	3384.8	2542.5	1579.4	748.3	419.8	377.6	353.8	332.7	321.5	315.9
25°	3738.6	3335.7	2354.3	1253.7	488.6	365.0	331.3	300.4	275.2	261.1	261.1
27.5°	3737.2	3276.7	2164.8	935.0	379.1	324.3	283.6	251.3	226.0	210.6	212.0
30°	3725.9	3212.1	1968.3	652.8	331.3	283.6	242.9	209.2	183.9	171.3	169.9
32.5°	3717.5	3143.3	1740.8	459.1	297.6	248.5	206.4	174.1	153.0	143.2	141.8
35°	3707.7	3075.9	1524.6	349.6	268.1	214.8	174.1	147.4	130.6	122.1	122.1
37.5°	3710.5	3005.7	1290.2	300.4	238.7	186.7	148.8	126.4	112.3	103.9	102.5
40°	3754.0	2963.6	1059.9	272.4	212.0	161.4	129.2	109.5	95.5	87.0	85.6
42.5°	3862.1	2965.0	839.5	251.3	188.1	137.6	112.3	94.1	81.4	71.6	70.2
45°	4078.3	3024.0	644.4	228.8	162.9	119.3	96.9	80.0	67.4	59.0	57.6
47.5°	4432.1	3199.5	488.6	209.2	141.8	103.9	82.8	67.4	56.2	49.1	47.7
50°	4995.1	3516.8	384.7	185.3	119.3	89.8	70.2	56.2	46.3	39.3	37.9
52.5°	5671.7	3992.7	329.9	164.3	102.5	78.6	60.4	46.3	37.9	32.3	30.9
55°	6449.5	4561.3	304.6	143.2	87.0	67.4	49.1	37.9	30.9	26.7	23.9
57.5°	7162.7	5073.7	303.2	122.1	74.4	57.6	40.7	32.3	26.7	21.1	19.7
60°	7857.6	5501.9	285.0	101.1	64.6	47.7	35.1	26.7	22.5	18.3	16.8
62.5°	8488.0	5850.0	238.7	81.4	54.8	39.3	29.5	23.9	19.7	15.4	15.4
65°	9279.8	6293.7	182.5	66.0	44.9	32.3	25.3	21.1	18.3	14.0	14.0
67.5°	10098.2	6528.1	130.6	54.8	36.5	28.1	22.5	19.7	15.4	12.6	12.6
70°	9146.4	5515.9	94.1	44.9	30.9	23.9	19.7	18.3	15.4	12.6	11.2
72.5°	7143.0	3977.2	70.2	35.1	26.7	22.5	18.3	16.8	14.0	11.2	11.2
75°	5296.9	2319.2	53.3	28.1	21.1	18.3	18.3	16.8	14.0	11.2	9.8
77.5°	2879.4	808.6	40.7	22.5	16.8	14.0	15.4	15.4	12.6	9.8	8.4
80°	762.3	221.8	28.1	16.8	14.0	11.2	11.2	14.0	11.2	8.4	8.4
82.5°	221.8	64.6	19.7	14.0	11.2	9.8	9.8	9.8	8.4	7.0	5.6
85°	108.1	23.9	14.0	11.2	9.8	8.4	7.0	7.0	5.6	4.2	4.2
87.5°	47.7	9.8	11.2	9.8	9.8	7.0	5.6	4.2	4.2	2.8	1.4
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)