

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: P633856

Luminaire Tested: GWS-SA2F-750-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-750-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

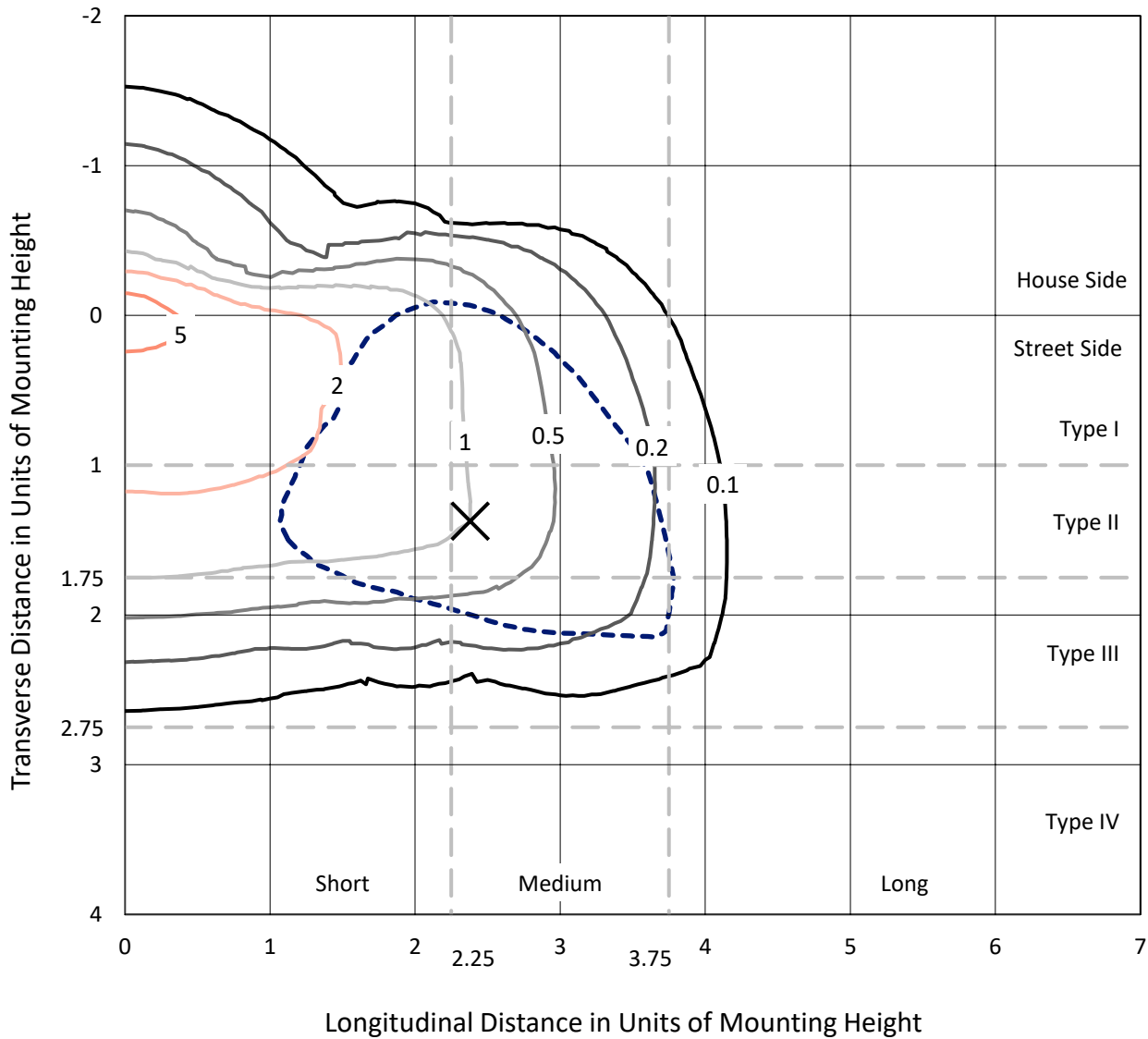
Lumens per Lamp: N/A  
Luminaire Lumens: 16259.5 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

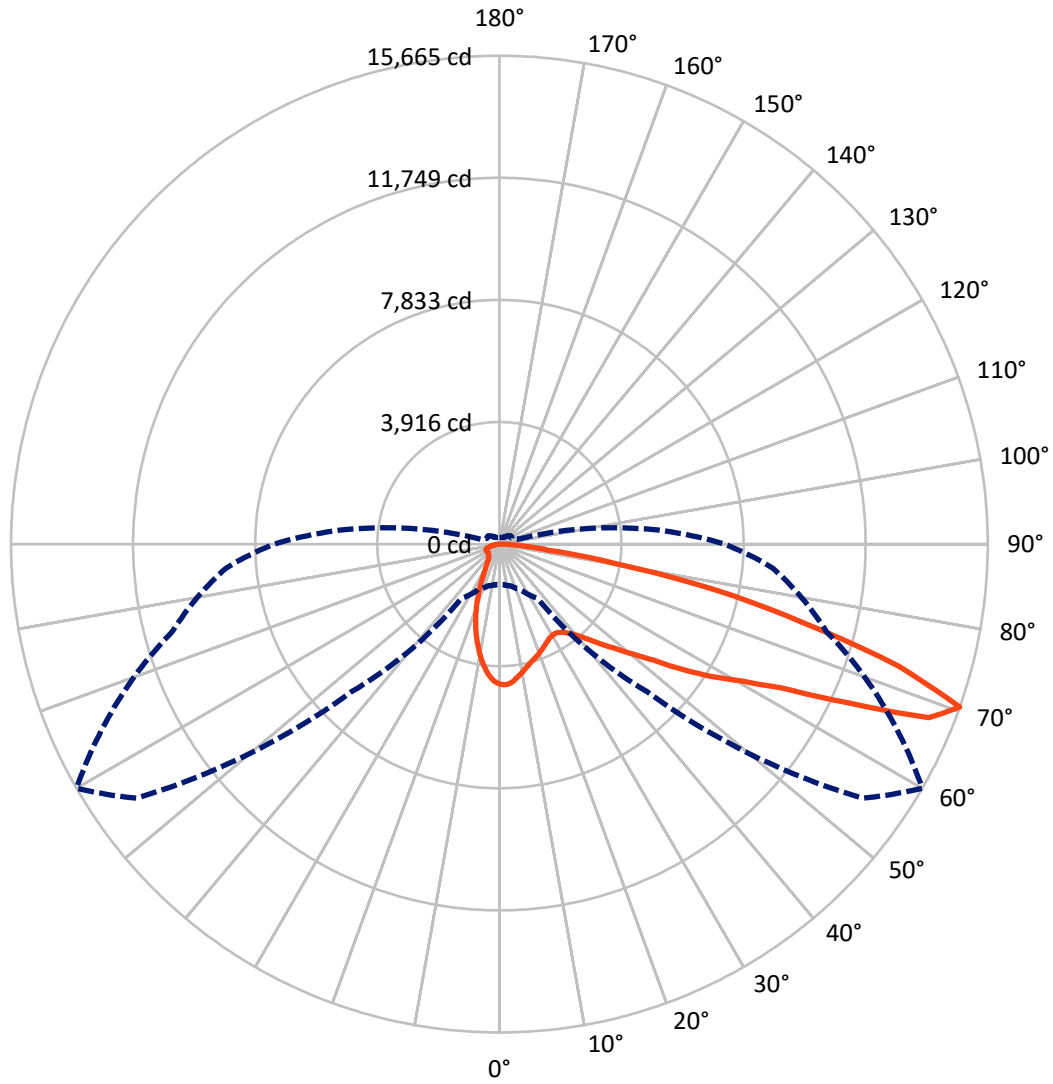
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2780.8	0.0	2780.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	13478.7	0.0	13478.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	16259.5	0.0	16259.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.8	2.4
10°-20°	868.8	5.3
20°-30°	1112.7	6.8
30°-40°	1462.3	9.0
40°-50°	2121.6	13.0
50°-60°	3310.2	20.4
60°-70°	4333.7	26.7
70°-80°	2396.4	14.7
80°-90°	265.9	1.6
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°	16259.5	100.0
0°-180°	16259.5	100.0

**Coefficient of Utilization**



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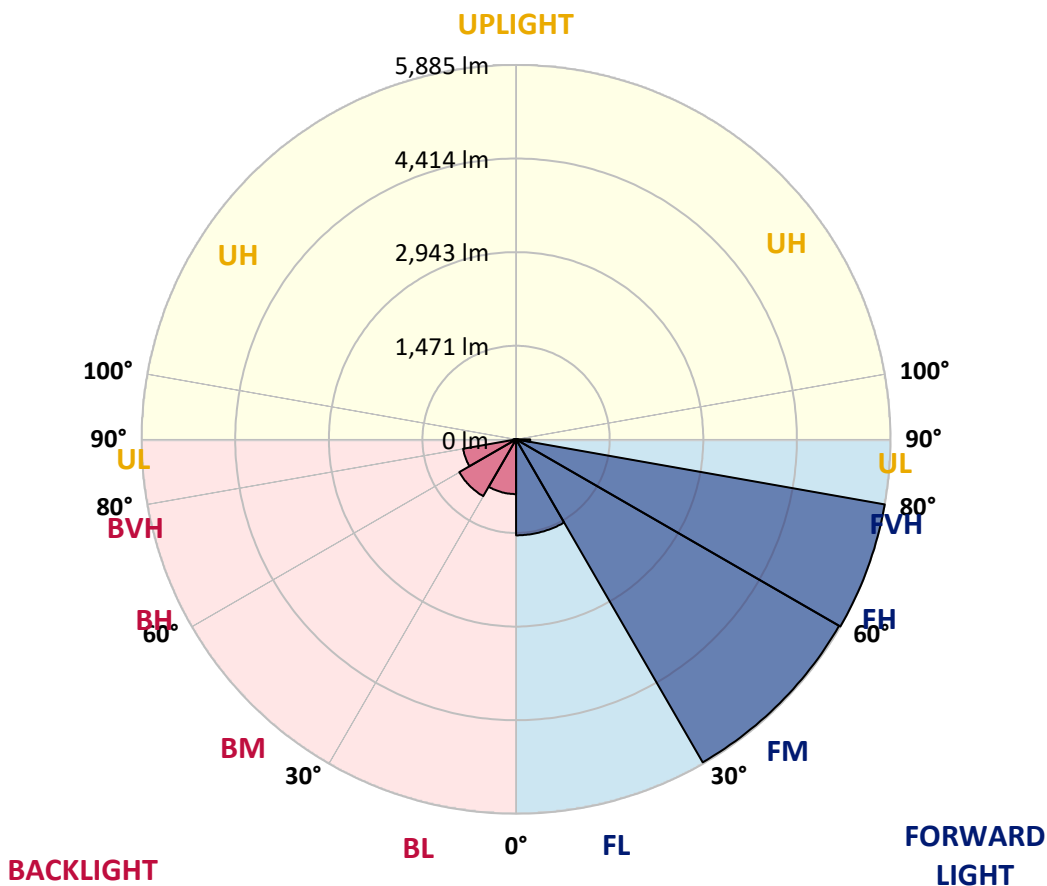
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.0	9.3			
FM (30°-60°)	5863.1	36.1			
FH (60°-80°)	5885.0	36.2			G3/7500
FVH (80°-90°)	221.6	1.4			G2/225
BL (0°-30°)	860.3	5.3	B2/1000		
BM (30°-60°)	1031.0	6.3	B2/2500		
BH (60°-80°)	845.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	44.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2
2.5°	4436.2	4440.9	4454.0	4473.0	4492.1	4501.6	4525.4	4518.2	4513.5	4504.0	4492.1
5°	4239.9	4249.4	4261.3	4298.2	4339.8	4373.1	4426.6	4432.6	4435.0	4439.7	4420.7
7.5°	3990.0	3992.4	4021.0	4069.8	4124.5	4181.6	4270.8	4295.8	4317.2	4341.0	4325.5
10°	3714.1	3720.0	3741.4	3811.6	3905.6	3990.0	4110.2	4151.8	4197.0	4249.4	4228.0
12.5°	3488.0	3489.2	3523.7	3598.7	3701.0	3815.2	3965.1	4015.0	4074.5	4156.6	4137.6
15°	3308.4	3308.4	3340.5	3404.7	3522.5	3656.9	3835.4	3899.6	3980.5	4091.2	4057.9
17.5°	3165.6	3166.8	3187.0	3254.9	3359.5	3508.2	3720.0	3806.8	3896.1	4042.4	3992.4
20°	3090.7	3084.7	3088.3	3129.9	3219.2	3363.1	3604.6	3705.7	3825.9	4009.1	3932.9
22.5°	3087.1	3076.4	3060.9	3064.5	3116.9	3235.8	3480.9	3603.4	3754.5	3981.7	3872.3
25°	3147.8	3135.9	3108.5	3077.6	3072.8	3144.2	3364.3	3503.5	3680.7	3969.8	3814.0
27.5°	3250.1	3241.8	3206.1	3159.7	3110.9	3108.5	3276.3	3421.4	3627.2	3981.7	3772.3
30°	3385.7	3371.4	3348.8	3289.4	3215.6	3139.5	3241.8	3377.4	3591.5	4019.8	3754.5
32.5°	3539.2	3530.8	3509.4	3450.0	3371.4	3250.1	3269.1	3386.9	3591.5	4086.4	3758.1
35°	3702.2	3701.0	3701.0	3661.7	3574.9	3423.8	3377.4	3467.8	3646.2	4193.5	3796.1
37.5°	3860.4	3859.2	3897.3	3911.5	3812.8	3649.8	3561.8	3629.6	3766.4	4351.7	3890.1
40°	3988.9	3993.6	4076.9	4148.3	4093.5	3942.5	3818.7	3853.2	3961.5	4576.5	4054.3
42.5°	4118.5	4131.6	4256.5	4382.6	4404.0	4273.2	4148.3	4168.5	4241.1	4874.0	4299.4
45°	4260.1	4266.0	4440.9	4617.0	4720.5	4643.2	4540.9	4568.2	4584.9	5241.5	4664.6
47.5°	4396.9	4412.4	4638.4	4879.9	5076.2	5069.1	5011.9	5003.6	5007.2	5688.9	5096.4
50°	4583.7	4606.3	4871.6	5163.0	5450.9	5583.0	5599.6	5536.6	5510.4	6186.1	5634.1
52.5°	4938.2	4938.2	5176.1	5462.8	5849.5	6176.6	6288.4	6184.9	6101.7	6711.9	6205.2
55°	5381.9	5401.0	5590.1	5822.1	6312.2	6801.2	7179.5	7065.3	6829.7	7284.2	6803.5
57.5°	5579.4	5603.2	5903.0	6263.4	6917.7	7511.4	8036.0	7995.6	7651.8	7879.0	7424.5
60°	5222.5	5272.5	5685.3	6289.6	7466.2	8657.0	9027.0	8909.2	8417.9	8503.5	8097.9
62.5°	4356.5	4411.2	4869.2	5712.6	7390.0	9895.4	10589.0	10154.8	9374.4	9292.3	8994.9
65°	2599.4	2597.0	3147.8	4266.0	6451.4	10239.2	13061.0	12250.9	10851.9	10374.8	9918.0
67.5°	1652.4	1648.8	1764.2	2260.3	4293.4	9397.0	14650.4	14861.0	12858.8	11170.7	9994.2
70°	1303.8	1302.7	1385.9	1612.0	2123.5	6687.0	14207.9	15665.2	14071.0	10867.4	8799.8
72.5°	950.5	952.9	1081.4	1350.2	1638.1	3357.2	11505.0	13403.7	12942.1	9593.2	7143.8
75°	682.9	686.4	763.7	1033.8	1510.8	1835.6	7650.6	10078.6	9846.6	7689.8	4914.4
77.5°	434.2	439.0	506.8	724.5	1220.6	1482.3	4638.4	7115.2	6551.3	4332.7	1747.6
80°	265.3	280.8	337.9	540.1	975.5	1112.3	2318.6	3748.6	3281.0	1188.4	587.7
82.5°	136.8	148.7	203.4	334.3	672.1	976.7	1312.2	1575.1	1016.0	497.3	312.9
85°	42.8	50.0	71.4	135.6	320.0	605.5	868.4	782.8	466.3	234.4	145.1
87.5°	10.7	10.7	11.9	11.9	13.1	27.4	167.7	177.3	123.7	73.8	59.5
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°	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2	4499.2
2.5°	4468.3	4439.7	4427.8	4426.6	4396.9	4354.1	4325.5	4305.3	4293.4	4291.0	4291.0
5°	4388.6	4351.7	4302.9	4266.0	4186.3	4105.4	4037.6	3999.6	3955.5	3949.6	3948.4
7.5°	4282.7	4229.2	4136.4	4032.9	3893.7	3759.3	3645.1	3567.7	3490.4	3476.1	3471.4
10°	4168.5	4095.9	3937.7	3755.7	3547.5	3346.5	3171.6	3034.8	2944.4	2880.1	2868.2
12.5°	4055.5	3959.1	3727.1	3455.9	3170.4	2895.6	2632.7	2409.0	2247.2	2153.2	2136.6
15°	3949.6	3815.2	3497.5	3151.4	2780.2	2404.3	2031.9	1741.6	1514.4	1433.5	1414.5
17.5°	3853.2	3685.5	3275.1	2836.1	2373.3	1882.0	1458.5	1200.3	1067.1	1026.7	1017.1
20°	3756.9	3552.3	3049.0	2504.2	1941.5	1390.7	1065.9	944.6	894.6	879.1	874.4
22.5°	3653.4	3405.9	2802.8	2177.0	1504.9	1040.9	872.0	818.5	803.0	804.2	803.0
25°	3549.9	3257.2	2544.6	1821.3	1120.6	844.6	761.4	741.1	744.7	755.4	757.8
27.5°	3464.2	3125.2	2291.2	1431.1	875.6	726.9	687.6	686.4	699.5	713.8	716.2
30°	3402.4	3007.4	2041.4	1100.4	720.9	646.0	630.5	637.6	653.1	663.8	667.4
32.5°	3358.4	2906.3	1774.9	864.9	631.7	588.9	581.7	588.9	598.4	609.1	611.5
35°	3342.9	2832.5	1513.2	705.5	571.0	547.2	542.5	546.0	550.8	556.8	559.1
37.5°	3377.4	2795.7	1239.6	613.9	534.1	519.9	512.7	510.4	511.5	513.9	515.1
40°	3479.7	2812.3	1016.0	560.3	510.4	497.3	485.4	480.6	479.4	481.8	480.6
42.5°	3655.8	2882.5	854.2	529.4	491.3	472.3	459.2	454.4	454.4	460.4	460.4
45°	3913.9	3020.5	737.6	506.8	474.7	450.9	436.6	434.2	439.0	448.5	449.7
47.5°	4292.2	3222.7	667.4	490.1	459.2	431.8	417.6	416.4	425.9	441.4	442.5
50°	4740.7	3514.2	629.3	478.2	448.5	416.4	402.1	403.3	414.0	430.6	434.2
52.5°	5280.8	3911.5	631.7	473.5	442.5	406.9	392.6	390.2	400.9	417.6	421.1
55°	5838.7	4394.5	678.1	474.7	434.2	402.1	383.1	374.7	384.3	396.1	397.3
57.5°	6452.6	4939.4	793.5	472.3	423.5	397.3	374.7	355.7	361.7	368.8	372.4
60°	7145.0	5580.6	1042.1	477.0	418.8	386.6	358.1	333.1	331.9	336.7	337.9
62.5°	8070.5	6452.6	1321.7	485.4	429.5	373.5	333.1	306.9	302.2	304.5	305.7
65°	8778.3	6869.0	1233.7	478.2	452.1	364.0	309.3	281.9	272.4	270.0	270.0
67.5°	8490.5	6318.2	858.9	459.2	462.8	365.2	290.3	255.8	243.9	237.9	236.7
70°	7224.7	5132.1	597.2	440.2	450.9	362.8	270.0	234.4	218.9	210.6	209.4
72.5°	5707.9	3918.7	483.0	402.1	409.2	327.2	240.3	210.6	197.5	186.8	186.8
75°	3673.6	2391.2	403.3	358.1	334.3	254.6	208.2	188.0	174.9	164.2	164.2
77.5°	1236.0	887.5	312.9	303.4	249.8	191.5	174.9	161.8	151.1	141.6	140.4
80°	502.0	421.1	229.6	229.6	174.9	146.3	136.8	130.9	123.7	111.8	111.8
82.5°	291.5	255.8	160.6	139.2	116.6	101.1	95.2	89.2	89.2	80.9	80.9
85°	140.4	141.6	96.4	85.7	66.6	58.3	55.9	52.3	51.2	46.4	45.2
87.5°	76.1	77.3	48.8	38.1	26.2	22.6	19.0	17.8	16.7	15.5	15.5
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)