

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: P633907

Luminaire Tested: GWS-SA2F-760-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-760-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

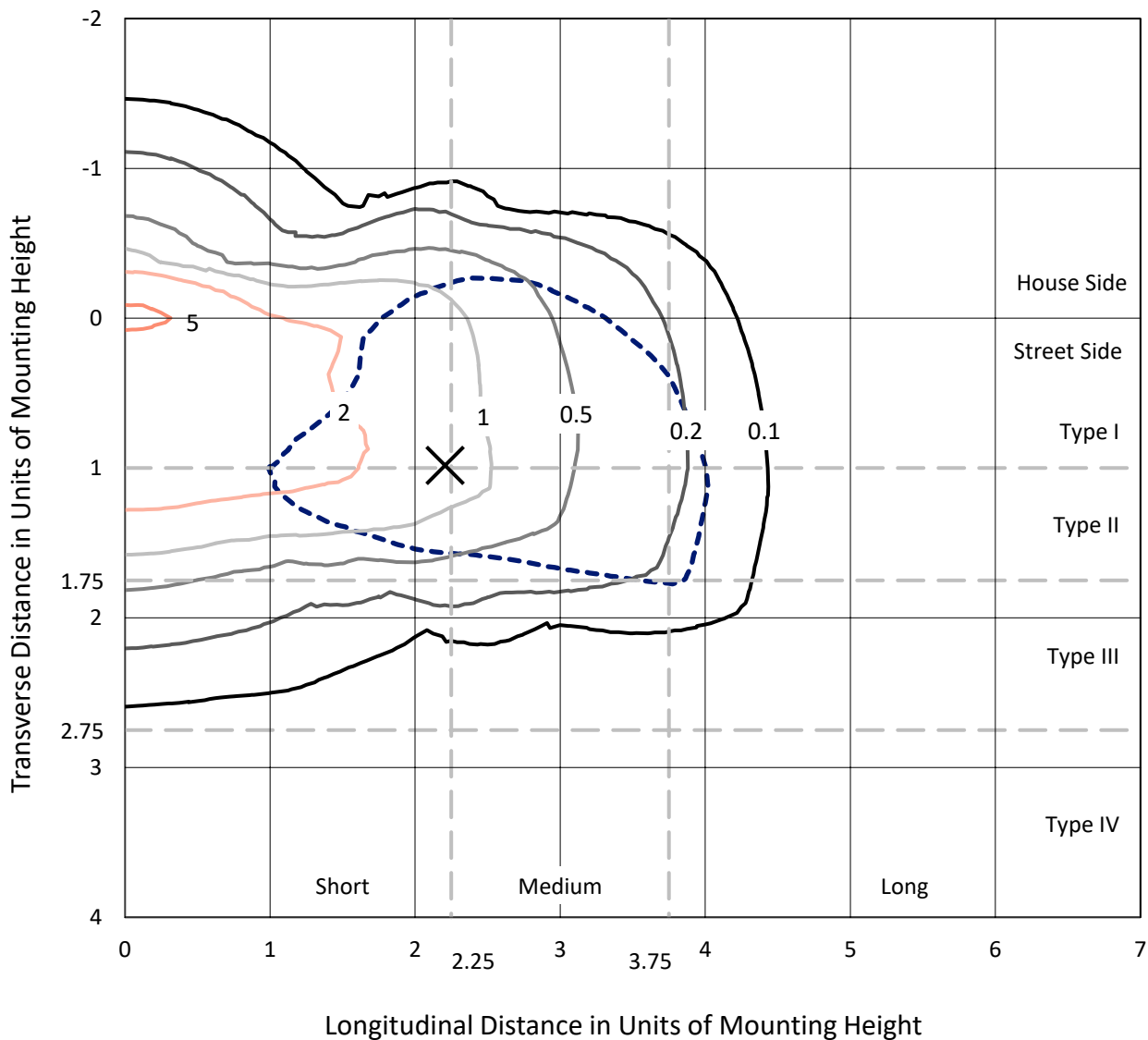
Lumens per Lamp: N/A  
Luminaire Lumens: 16083.6 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

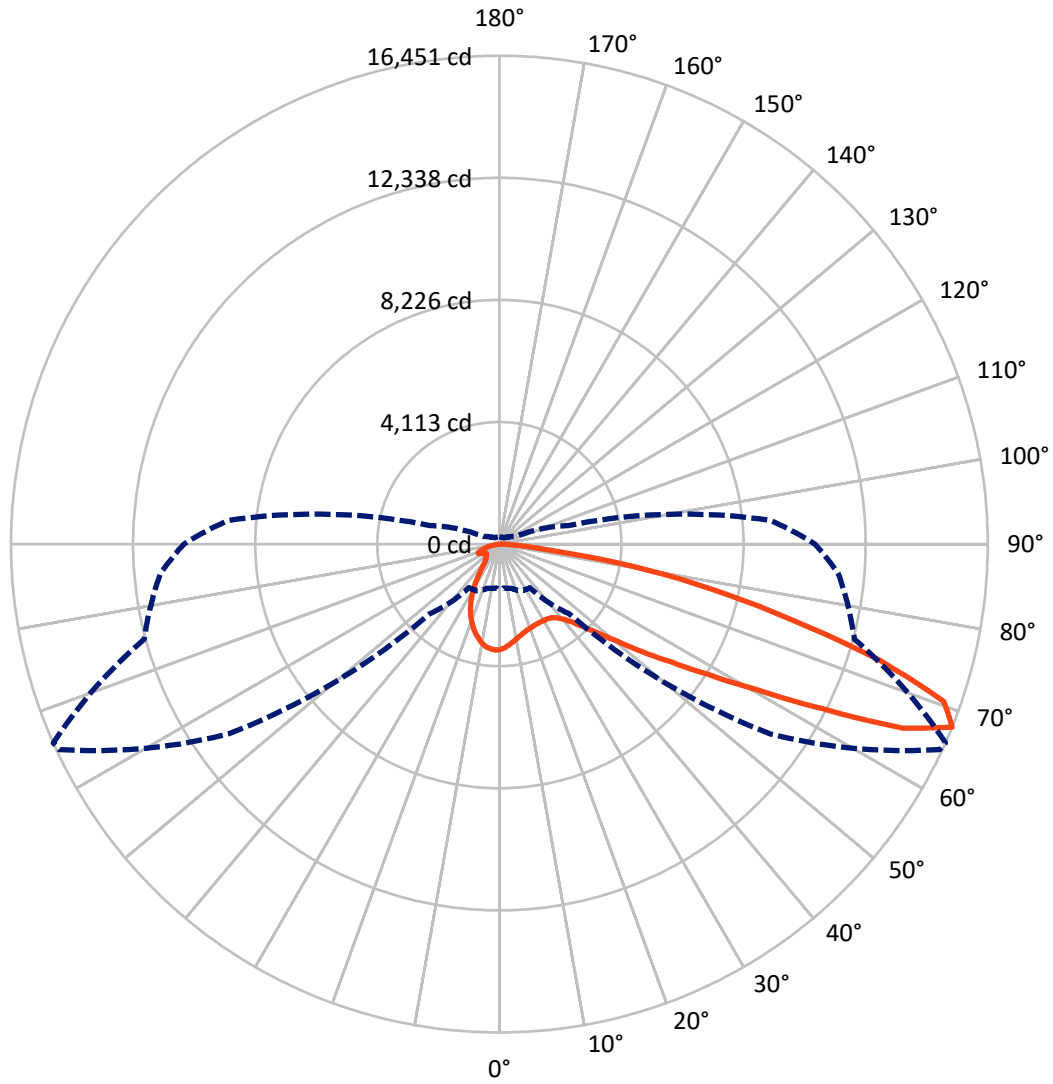
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3263.7	0.0	3263.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	12819.9	0.0	12819.9
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	16083.6	0.0	16083.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.9	1.9
10°-20°	766.6	4.8
20°-30°	1053.7	6.6
30°-40°	1440.5	9.0
40°-50°	2182.8	13.6
50°-60°	3393.2	21.1
60°-70°	4131.1	25.7
70°-80°	2516.5	15.6
80°-90°	287.4	1.8
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°	16083.6	100.0
0°-180°	16083.6	100.0

**Coefficient of Utilization**



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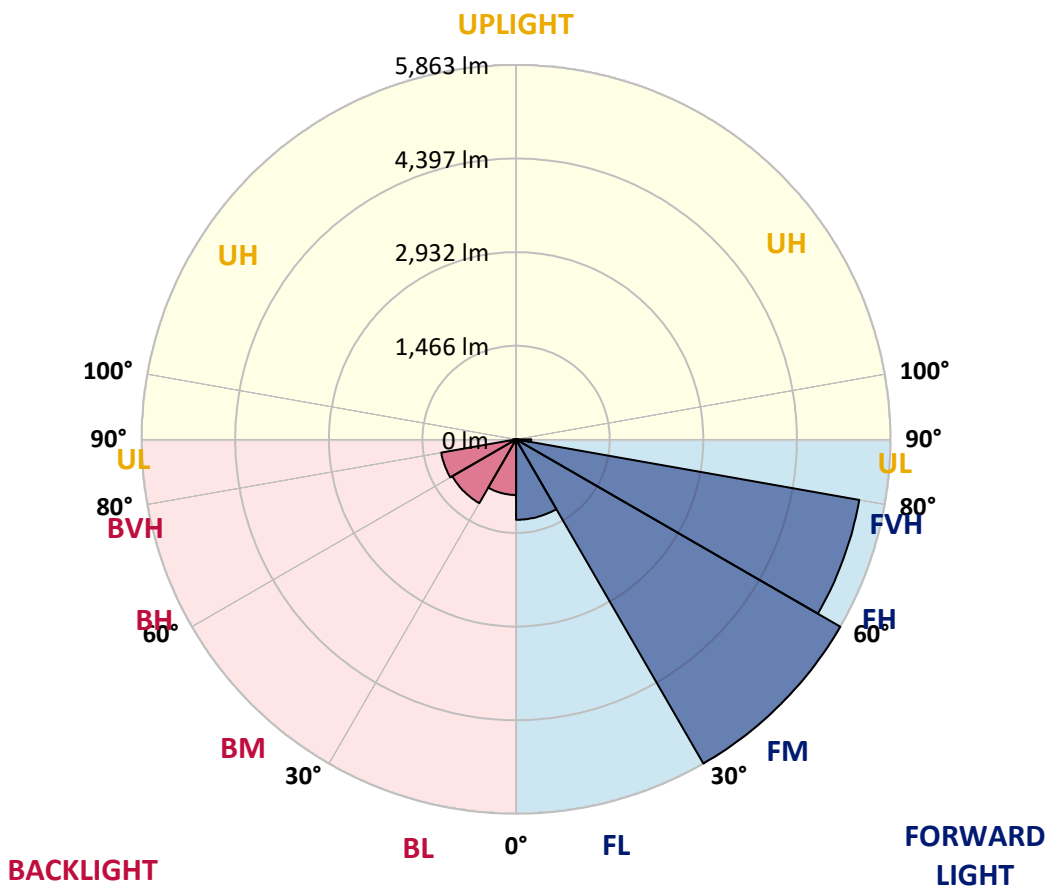
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.2	7.8			
FM (30°-60°)	5863.1	36.5			
FH (60°-80°)	5457.6	33.9			G3/7500
FVH (80°-90°)	239.0	1.5			G3/500
BL (0°-30°)	871.9	5.4	B2/1000		
BM (30°-60°)	1153.4	7.2	B2/2500		
BH (60°-80°)	1190.0	7.4	B3/2500		G3/2500
BVH (80°-90°)	48.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0
2.5°	3328.7	3340.5	3333.4	3378.0	3380.4	3436.7	3468.4	3495.4	3497.7	3532.9	3556.4
5°	3101.1	3108.2	3108.2	3150.4	3178.6	3253.6	3326.4	3403.8	3409.7	3494.2	3558.7
7.5°	2916.9	2923.9	2919.2	2975.6	3011.9	3095.2	3187.9	3306.4	3318.2	3454.3	3566.9
10°	2772.6	2770.2	2782.0	2833.6	2880.5	2980.3	3083.5	3218.4	3236.0	3408.5	3576.3
12.5°	2674.0	2676.4	2683.4	2737.4	2787.8	2886.4	2993.2	3139.8	3158.6	3355.7	3571.6
15°	2627.1	2622.4	2628.3	2677.5	2725.6	2812.5	2922.8	3074.1	3092.9	3308.8	3572.8
17.5°	2616.5	2613.0	2611.8	2647.0	2683.4	2764.4	2870.0	3023.7	3043.6	3278.3	3579.8
20°	2649.4	2644.7	2631.8	2647.0	2662.3	2730.3	2832.4	2987.3	3009.6	3258.3	3593.9
22.5°	2739.7	2731.5	2711.6	2692.8	2672.8	2713.9	2809.0	2960.3	2982.6	3245.4	3608.0
25°	2877.0	2870.0	2848.8	2806.6	2733.9	2726.8	2804.3	2948.6	2970.9	3236.0	3613.9
27.5°	3065.9	3055.4	3034.2	2973.2	2854.7	2774.9	2821.9	2947.4	2968.5	3225.5	3608.0
30°	3290.0	3283.0	3271.2	3197.3	3038.9	2877.0	2861.8	2956.8	2973.2	3219.6	3596.3
32.5°	3517.6	3510.6	3520.0	3484.8	3290.0	3046.0	2948.6	2982.6	2994.3	3218.4	3585.7
35°	3718.3	3726.5	3794.6	3800.4	3609.2	3274.8	3085.9	3042.4	3044.8	3241.9	3590.4
37.5°	3928.3	3960.0	4049.2	4125.4	3965.9	3577.5	3290.0	3155.1	3152.7	3301.8	3619.7
40°	4206.4	4220.5	4334.3	4477.4	4377.7	3992.8	3579.8	3339.3	3322.9	3423.8	3698.3
42.5°	4477.4	4511.5	4693.3	4857.6	4824.7	4461.0	3944.7	3615.0	3585.7	3639.7	3860.3
45°	4822.4	4855.2	5059.4	5270.6	5330.4	4990.2	4411.7	4006.9	3977.6	3964.7	4157.1
47.5°	5167.3	5201.4	5384.4	5689.5	5899.5	5651.9	5019.5	4524.4	4476.3	4425.8	4605.3
50°	5399.7	5439.6	5614.4	5980.5	6473.3	6478.0	5739.9	5202.5	5141.5	5061.7	5236.6
52.5°	5391.5	5417.3	5583.9	6006.3	6886.3	7427.2	6704.4	6066.1	6016.8	5843.2	5995.7
55°	4967.9	5006.6	5174.4	5702.4	6930.9	8327.1	8121.8	7084.6	6996.6	6685.6	6853.4
57.5°	4117.2	4150.1	4319.0	4970.2	6535.5	8788.2	9921.7	8382.3	8261.4	7603.2	7796.8
60°	3108.2	3068.3	3148.0	3718.3	5589.7	8800.0	11510.4	10142.3	9940.5	8584.1	8746.0
62.5°	2332.6	2292.7	2310.3	2471.0	3789.9	8088.9	12416.2	12549.9	12216.7	9691.7	9660.0
65°	1843.3	1821.0	1871.5	1981.8	2209.4	6160.0	12423.2	15153.6	14943.5	10975.3	10597.5
67.5°	1501.9	1487.8	1539.4	1743.6	1791.7	3310.0	11139.6	16369.1	16451.3	12381.0	11467.0
70°	1209.7	1188.6	1269.5	1538.2	1666.1	2002.9	7979.8	15749.6	15882.2	13218.7	11221.7
72.5°	835.4	836.6	877.7	1246.1	1608.6	1729.5	4513.8	13114.3	13401.8	12459.6	9865.4
75°	563.2	567.9	579.6	822.5	1481.9	1677.9	2405.3	9928.7	10131.7	10298.3	8154.6
77.5°	340.3	342.6	369.6	497.5	1022.0	1566.4	1629.8	7197.2	7356.8	6788.9	5054.7
80°	197.1	205.3	230.0	333.2	689.9	1176.9	1261.3	4412.9	4593.6	3017.8	1606.3
82.5°	86.8	92.7	125.5	193.6	402.5	1000.9	984.4	1743.6	1717.8	841.3	557.3
85°	15.3	18.8	27.0	61.0	147.8	528.0	763.8	769.7	723.9	319.1	231.1
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	115.0	206.5	205.3	90.3	79.8
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°	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0	3554.0
2.5°	3571.6	3539.9	3568.1	3571.6	3565.8	3561.1	3525.9	3495.4	3491.8	3459.0	3459.0
5°	3584.5	3555.2	3569.3	3542.3	3500.0	3456.6	3381.5	3329.9	3306.4	3264.2	3264.2
7.5°	3602.1	3571.6	3555.2	3488.3	3389.8	3294.7	3173.9	3073.0	3031.9	2972.0	2969.7
10°	3618.6	3579.8	3523.5	3393.3	3236.0	3084.7	2908.7	2765.5	2668.2	2596.6	2596.6
12.5°	3617.4	3566.9	3455.5	3263.0	3046.0	2826.6	2591.9	2376.0	2246.9	2135.5	2128.4
15°	3615.0	3545.8	3368.6	3111.7	2824.2	2520.3	2201.2	1919.6	1728.3	1619.2	1609.8
17.5°	3612.7	3518.8	3271.2	2939.2	2554.3	2140.2	1718.9	1413.9	1254.3	1187.4	1189.8
20°	3612.7	3488.3	3166.8	2740.9	2243.4	1684.9	1261.3	1039.6	999.7	1003.2	1006.7
22.5°	3602.1	3450.8	3050.7	2525.0	1897.3	1239.0	930.5	855.4	876.5	909.3	914.0
25°	3577.5	3388.6	2915.7	2285.6	1485.4	902.3	759.1	745.1	783.8	824.9	836.6
27.5°	3538.8	3317.0	2764.4	2005.2	1093.5	725.1	667.6	666.5	697.0	727.5	738.0
30°	3497.7	3237.2	2604.8	1693.1	792.0	631.3	609.0	609.0	624.2	643.0	640.6
32.5°	3449.6	3156.3	2433.5	1368.1	645.3	578.5	571.4	567.9	570.2	577.3	577.3
35°	3408.5	3084.7	2257.5	1024.3	578.5	549.1	542.1	533.9	530.3	525.7	528.0
37.5°	3393.3	3028.4	2075.6	772.1	545.6	528.0	516.3	504.5	496.3	494.0	492.8
40°	3417.9	3004.9	1893.8	635.9	522.1	505.7	492.8	477.5	470.5	470.5	470.5
42.5°	3514.1	3022.5	1708.4	574.9	505.7	486.9	468.2	454.1	451.7	454.1	455.3
45°	3690.1	3090.6	1515.9	544.4	491.6	468.2	445.9	435.3	435.3	437.7	437.7
47.5°	4004.6	3268.9	1325.9	525.7	477.5	452.9	429.4	418.9	417.7	420.1	420.1
50°	4549.0	3590.4	1154.6	512.7	467.0	441.2	417.7	403.6	400.1	398.9	398.9
52.5°	5235.4	4147.7	1045.4	503.4	454.1	428.3	404.8	386.0	379.0	375.5	375.5
55°	6064.9	4890.4	1045.4	496.3	437.7	413.0	386.0	367.3	356.7	352.0	352.0
57.5°	7004.8	5755.2	1226.1	490.5	424.7	395.4	366.1	347.3	335.6	328.5	328.5
60°	7961.0	6669.2	1673.2	482.2	413.0	373.1	343.8	326.2	310.9	302.7	301.5
62.5°	8952.5	7675.9	2262.2	486.9	404.8	352.0	320.3	300.4	287.5	279.3	278.1
65°	9860.7	8634.5	2777.3	523.3	406.0	333.2	293.3	275.7	265.2	254.6	253.4
67.5°	10631.6	9163.7	2415.9	597.2	430.6	310.9	266.3	248.7	239.4	232.3	231.1
70°	10091.8	8356.5	1370.5	643.0	464.6	287.5	235.8	224.1	214.7	210.0	208.9
72.5°	8629.8	7075.2	916.4	567.9	423.6	257.0	207.7	198.3	191.3	185.4	184.2
75°	6990.7	5610.9	700.5	465.8	329.7	208.9	178.3	171.3	164.3	158.4	157.2
77.5°	4136.0	3241.9	516.3	368.4	232.3	163.1	147.8	142.0	134.9	130.2	129.1
80°	1320.0	1126.4	327.4	253.4	153.7	125.5	113.8	109.1	102.1	96.2	95.0
82.5°	503.4	435.3	173.7	129.1	102.1	85.7	76.3	71.6	66.9	61.0	59.8
85°	222.9	208.9	96.2	69.2	55.1	42.2	37.5	35.2	29.3	24.6	23.5
87.5°	78.6	78.6	41.1	19.9	11.7	5.9	3.5	1.2	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)