

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: P635807

Luminaire Tested: GWS-SA3E-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

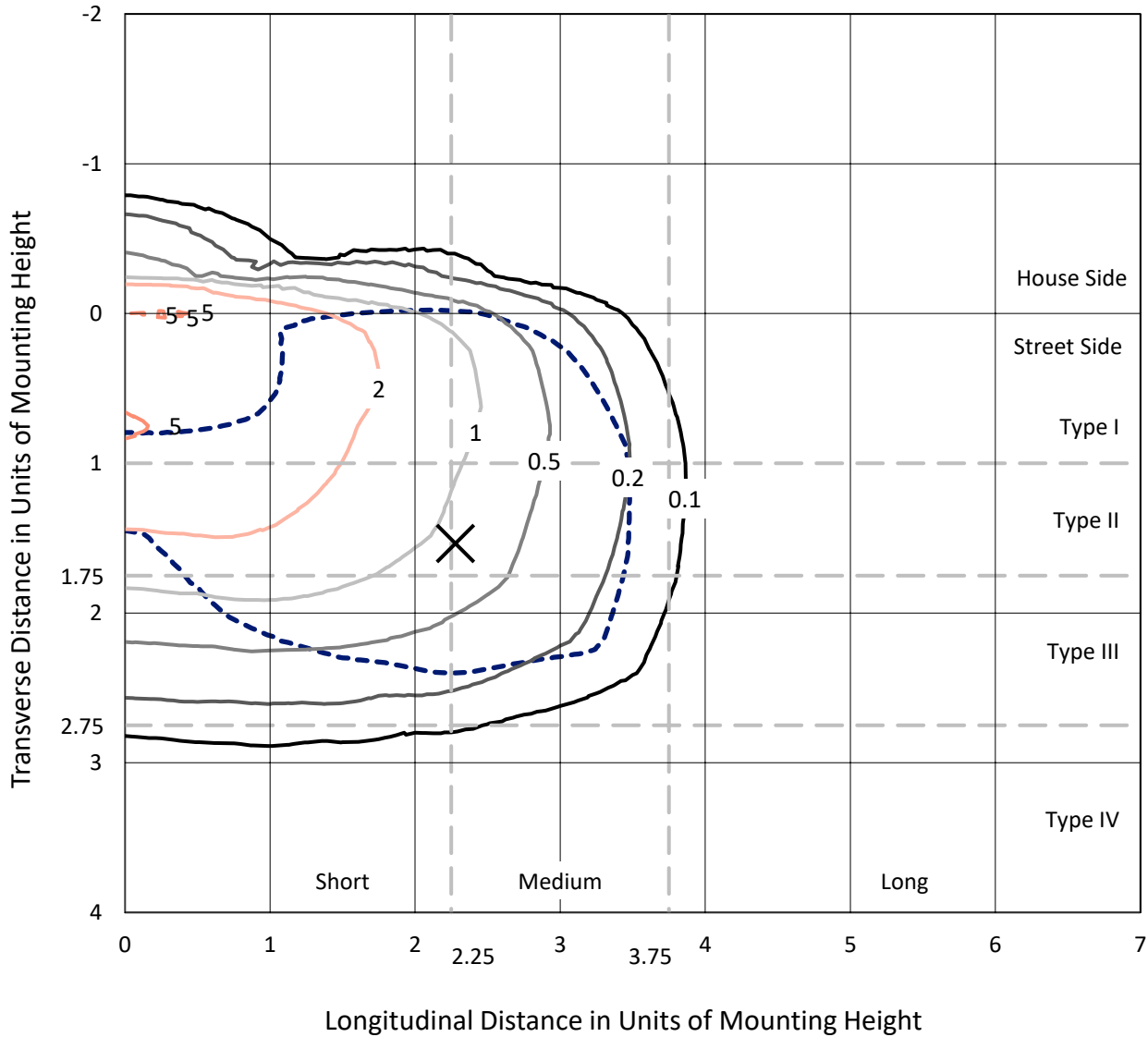
Lumens per Lamp: N/A  
Luminaire Lumens: 17215.5 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

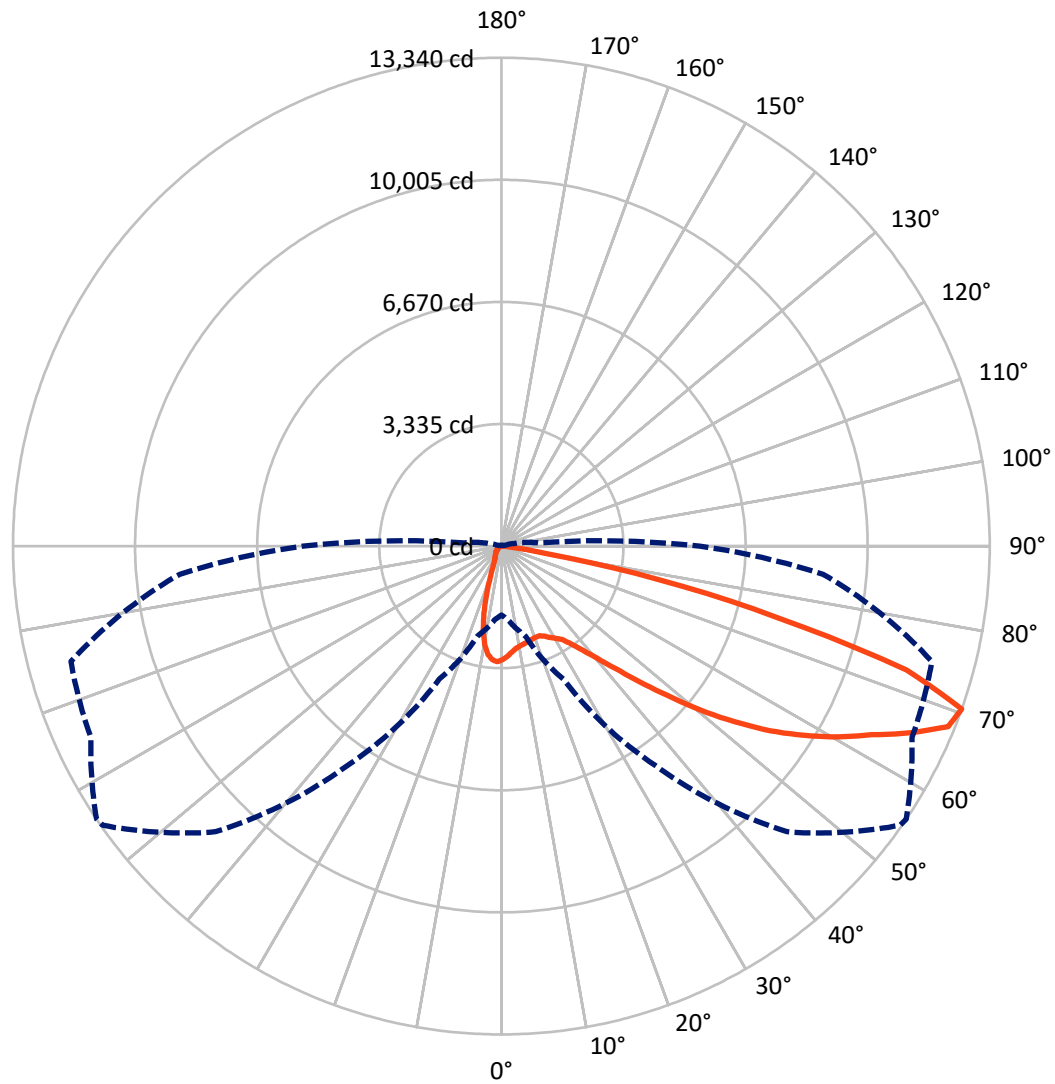
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1546.3	0.0	1546.3
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	15669.2	0.0	15669.2
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	17215.5	0.0	17215.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.5	1.5
10°-20°	599.4	3.5
20°-30°	949.5	5.5
30°-40°	1637.4	9.5
40°-50°	2765.0	16.1
50°-60°	4062.7	23.6
60°-70°	4816.5	28.0
70°-80°	2054.0	11.9
80°-90°	64.5	0.4
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°	17215.5	100.0
0°-180°	17215.5	100.0

**Coefficient of Utilization**



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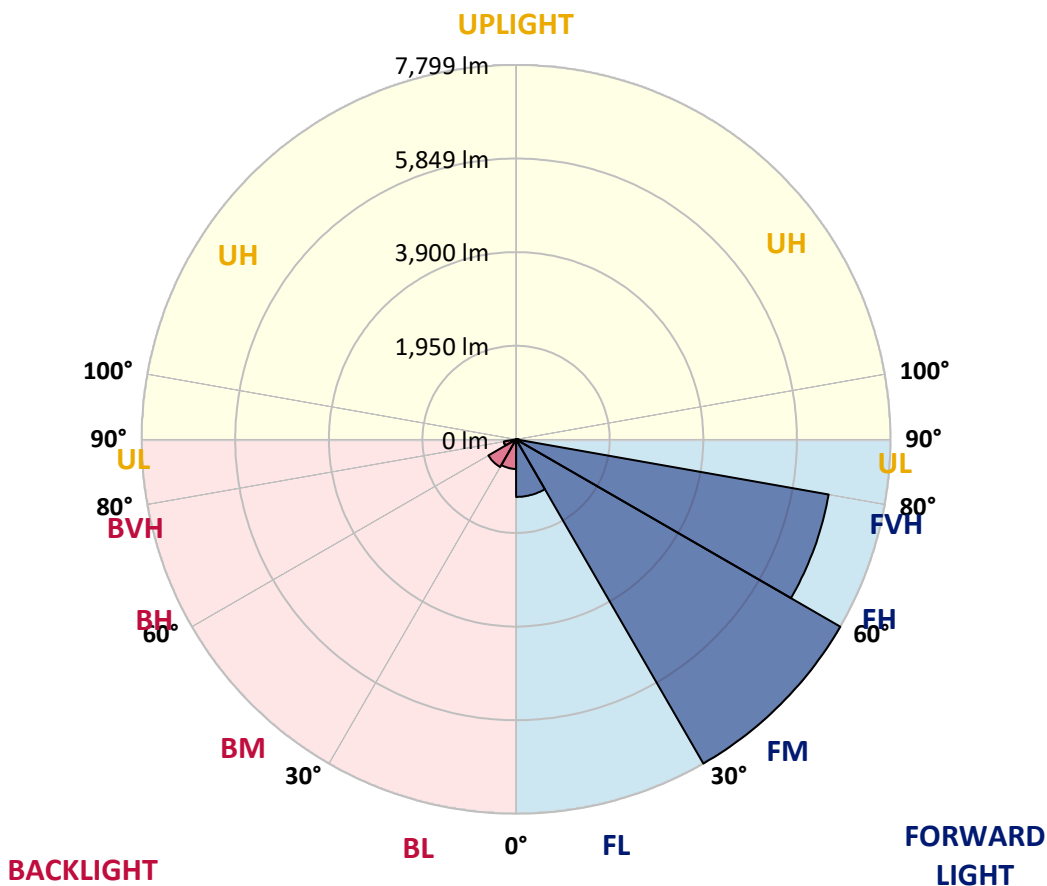
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.6	7.0			
FM (30°-60°)	7799.1	45.3			
FH (60°-80°)	6612.6	38.4			G3/7500
FVH (80°-90°)	57.9	0.3			G1/100
BL (0°-30°)	615.8	3.6	B2/1000		
BM (30°-60°)	666.0	3.9	B1/1000		
BH (60°-80°)	257.9	1.5	B1/500		G1/500
BVH (80°-90°)	6.6	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1
2.5°	2889.7	2885.0	2888.1	2911.8	2955.9	2976.4	3011.1	3017.4	3045.8	3082.1	3096.2
5°	2702.1	2686.4	2694.2	2727.3	2777.8	2834.5	2899.2	2916.5	2987.5	3067.9	3127.8
7.5°	2530.3	2512.9	2531.9	2583.9	2654.8	2716.3	2812.5	2823.5	2937.0	3078.9	3187.7
10°	2260.7	2265.4	2303.3	2394.7	2503.5	2631.2	2760.5	2776.2	2916.5	3115.2	3283.8
12.5°	2054.2	2043.1	2084.1	2188.2	2341.1	2527.1	2721.0	2741.5	2918.1	3170.3	3406.8
15°	1958.0	1954.9	1972.2	2047.9	2196.1	2415.2	2684.8	2711.6	2938.6	3220.8	3523.5
17.5°	1961.2	1956.4	1954.9	1999.0	2109.4	2331.6	2645.4	2680.0	2955.9	3276.0	3646.4
20°	2098.3	2076.3	2036.8	2016.3	2082.6	2278.0	2618.6	2658.0	2981.2	3334.3	3777.3
22.5°	2385.2	2393.1	2287.5	2177.1	2145.6	2284.3	2615.4	2661.1	3036.3	3425.7	3938.1
25°	2959.1	2946.5	2751.0	2503.5	2331.6	2356.9	2670.6	2725.8	3145.1	3556.6	4089.4
27.5°	3678.0	3689.0	3421.0	3026.9	2667.4	2506.6	2771.5	2826.7	3271.2	3638.6	4190.3
30°	4461.5	4450.5	4163.5	3726.8	3143.5	2755.7	2872.4	2921.3	3334.3	3682.7	4294.4
32.5°	5202.4	5177.2	4893.5	4436.3	3750.5	3148.3	3011.1	3039.5	3417.9	3778.9	4434.7
35°	5834.6	5833.0	5585.5	5098.4	4374.8	3640.1	3249.2	3272.8	3573.9	3931.8	4641.2
37.5°	6487.3	6465.2	6187.8	5743.2	5016.4	4179.3	3613.3	3603.9	3819.9	4157.2	4895.0
40°	7023.3	7009.1	6796.3	6369.1	5683.3	4775.2	4054.8	4026.4	4111.5	4469.4	5248.2
42.5°	7420.6	7422.2	7355.9	7095.8	6389.6	5464.1	4609.7	4565.5	4564.0	4940.8	5714.8
45°	7721.7	7742.2	7841.5	7802.1	7223.5	6266.6	5320.7	5275.0	5197.7	5552.4	6249.2
47.5°	7862.0	7888.8	8188.3	8346.0	7953.4	7062.7	6167.3	6071.1	5919.8	6365.9	6846.7
50°	7847.8	7895.1	8312.9	8792.1	8615.6	7869.9	7089.5	7043.8	6796.3	7226.7	7437.9
52.5°	7526.2	7627.1	8320.8	9063.3	9124.8	8614.0	8043.3	7958.2	7838.4	8125.3	7992.9
55°	6652.8	6775.8	7988.1	9150.0	9522.1	9263.5	8976.6	8907.2	8708.6	8973.4	8476.8
57.5°	6178.3	6283.9	7288.2	9107.4	9859.4	9864.2	9807.4	9750.7	9586.7	9812.1	9044.4
60°	5893.0	5998.6	6914.5	8951.4	10165.3	10497.9	10587.8	10581.5	10345.0	10765.9	9709.7
62.5°	5475.2	5620.2	6525.1	8546.2	10382.8	11122.2	11393.4	11350.8	11087.5	11759.1	10368.6
65°	4631.8	4757.9	5727.4	7877.8	10255.1	11639.3	12266.7	12288.8	11984.6	12694.0	10888.9
67.5°	3247.6	3340.6	4303.8	6474.7	9388.1	11809.6	13160.6	13159.0	12640.4	13173.2	10658.7
70°	1882.3	2010.0	2542.9	4002.7	7303.9	11035.5	13294.6	13340.3	12373.9	12172.2	8820.5
72.5°	728.3	834.0	1440.9	2126.7	3808.8	8453.2	11435.9	11569.9	10356.0	9389.6	6138.9
75°	217.6	242.8	677.9	1131.9	1529.2	4083.1	7742.2	7780.0	7103.7	5856.7	3146.7
77.5°	162.4	179.7	296.4	572.3	536.0	1237.6	4005.9	4374.8	3771.0	2092.0	867.1
80°	110.4	130.8	211.3	279.0	198.6	329.5	1125.6	1236.0	1150.8	469.8	217.6
82.5°	48.9	63.1	149.8	140.3	72.5	94.6	346.8	368.9	238.1	141.9	75.7
85°	4.7	6.3	56.8	61.5	26.8	22.1	72.5	72.5	52.0	48.9	31.5
87.5°	0.0	0.0	1.6	3.2	3.2	4.7	6.3	7.9	9.5	12.6	15.8
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°	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1
2.5°	3132.5	3113.6	3137.2	3156.2	3160.9	3126.2	3105.7	3075.8	3069.4	3071.0	3063.1
5°	3175.1	3165.6	3183.0	3162.5	3108.9	3008.0	2921.3	2825.1	2773.1	2743.1	2740.0
7.5°	3253.9	3249.2	3230.2	3137.2	2970.1	2746.3	2530.3	2319.0	2188.2	2140.9	2133.0
10°	3370.6	3361.1	3283.8	3063.1	2706.8	2276.5	1913.9	1611.2	1426.7	1373.1	1306.9
12.5°	3504.6	3485.6	3317.0	2903.9	2309.6	1713.7	1261.2	922.3	763.0	715.7	715.7
15°	3633.8	3592.8	3298.0	2640.6	1820.9	1114.6	704.7	532.9	484.0	471.4	471.4
17.5°	3766.3	3687.4	3223.9	2281.2	1258.0	659.0	469.8	436.7	430.4	432.0	433.5
20°	3890.8	3767.8	3093.1	1849.2	802.4	460.3	420.9	413.0	409.9	413.0	411.5
22.5°	4026.4	3841.9	2894.5	1377.9	521.8	414.6	400.4	394.1	391.0	395.7	395.7
25°	4160.4	3895.5	2631.2	927.0	414.6	386.2	378.4	372.1	368.9	370.5	370.5
27.5°	4229.7	3875.0	2285.9	591.2	372.1	357.9	350.0	342.1	337.4	335.8	337.4
30°	4277.0	3812.0	1863.4	420.9	337.4	320.0	312.1	305.8	293.2	285.3	288.5
32.5°	4351.1	3748.9	1404.7	353.1	309.0	282.2	269.6	253.8	236.5	228.6	228.6
35°	4439.4	3662.2	985.3	318.5	279.0	250.7	227.0	200.2	179.7	173.4	173.4
37.5°	4556.1	3580.2	655.8	294.8	253.8	223.9	190.8	159.2	137.2	134.0	132.4
40°	4731.1	3510.9	461.9	277.5	231.7	195.5	156.1	123.0	107.2	102.5	102.5
42.5°	4958.1	3439.9	365.7	260.1	212.8	168.7	124.5	97.7	85.1	82.0	80.4
45°	5238.7	3356.4	318.5	244.4	193.9	140.3	99.3	82.0	72.5	69.4	69.4
47.5°	5543.0	3242.9	296.4	223.9	171.8	113.5	83.6	70.9	66.2	64.6	63.1
50°	5842.5	3089.9	277.5	204.9	146.6	93.0	72.5	64.6	61.5	59.9	59.9
52.5°	6104.2	2911.8	253.8	182.9	119.8	80.4	64.6	59.9	56.8	53.6	52.0
55°	6328.1	2717.9	223.9	157.6	97.7	70.9	59.9	55.2	52.0	48.9	47.3
57.5°	6616.6	2607.5	179.7	127.7	80.4	63.1	55.2	50.4	47.3	42.6	42.6
60°	6936.6	2527.1	134.0	100.9	69.4	58.3	50.4	45.7	42.6	37.8	37.8
62.5°	7193.6	2407.3	105.6	82.0	59.9	52.0	45.7	41.0	37.8	33.1	33.1
65°	7291.3	2159.8	86.7	64.6	48.9	45.7	41.0	37.8	33.1	28.4	28.4
67.5°	6849.9	1664.8	72.5	52.0	41.0	39.4	36.3	34.7	28.4	25.2	23.6
70°	5424.7	1015.3	59.9	42.6	34.7	33.1	33.1	30.0	25.2	23.6	22.1
72.5°	3717.4	523.4	48.9	34.7	30.0	30.0	28.4	26.8	23.6	22.1	22.1
75°	1931.2	175.0	37.8	26.8	23.6	25.2	25.2	23.6	22.1	22.1	20.5
77.5°	553.4	78.8	28.4	20.5	18.9	18.9	20.5	20.5	20.5	18.9	18.9
80°	143.5	45.7	20.5	15.8	15.8	15.8	15.8	17.3	18.9	17.3	17.3
82.5°	58.3	25.2	14.2	12.6	12.6	12.6	12.6	14.2	15.8	15.8	15.8
85°	36.3	12.6	11.0	11.0	11.0	9.5	9.5	11.0	11.0	12.6	12.6
87.5°	22.1	9.5	9.5	9.5	9.5	7.9	7.9	7.9	7.9	7.9	7.9
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)