

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: P638062

Luminaire Tested: GWS-SA4E-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638062
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-SA4E-722-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17646.2 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

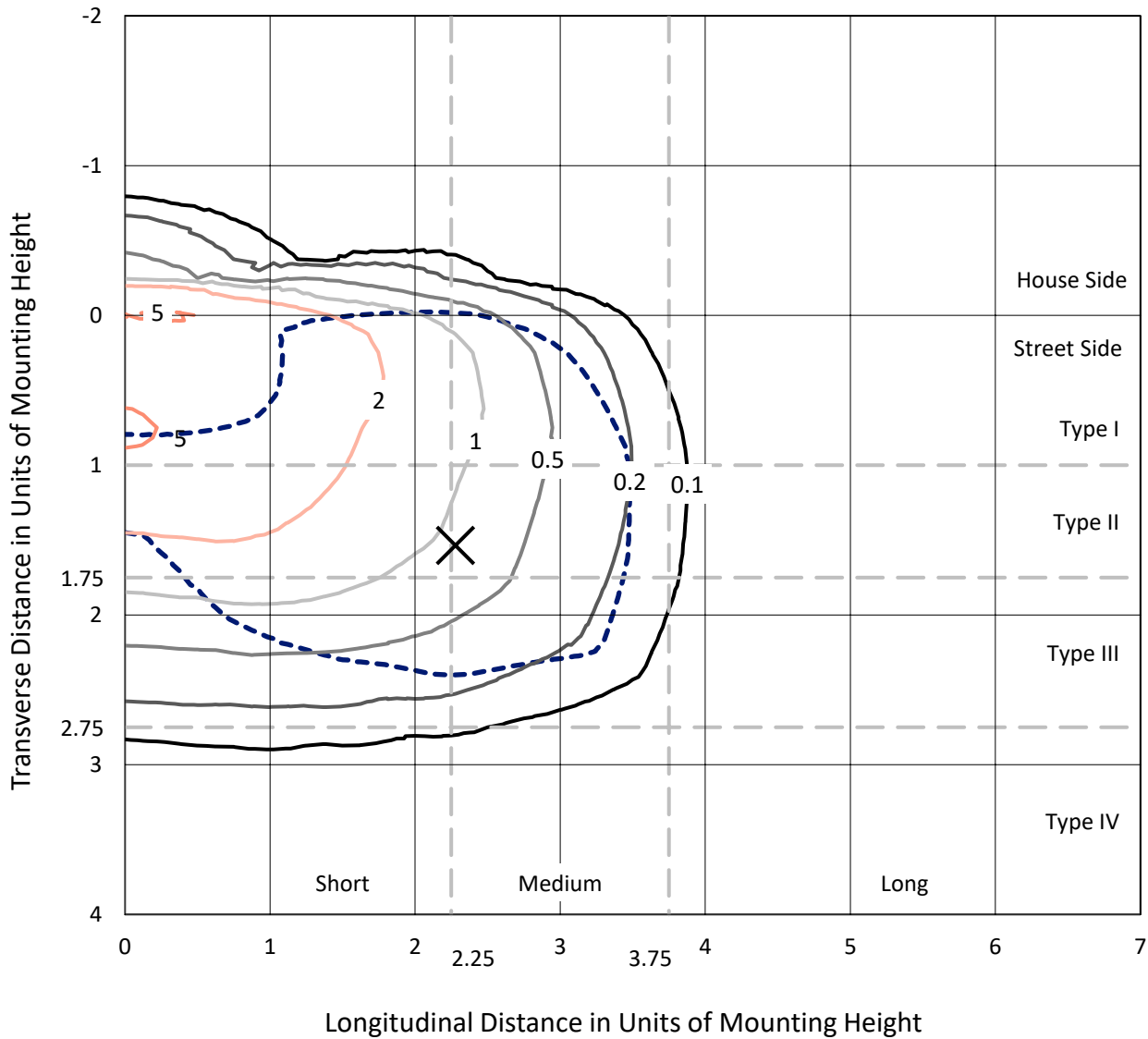
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

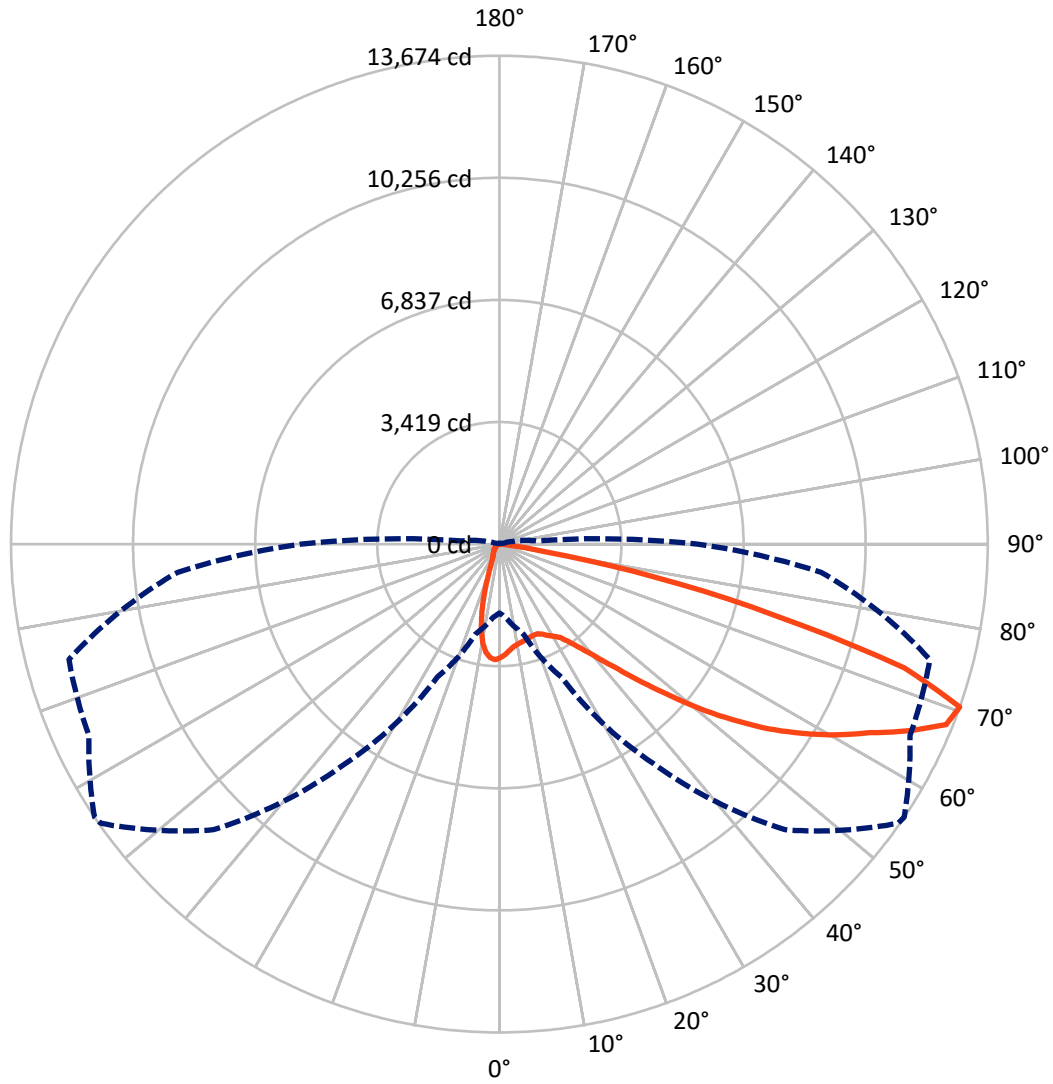
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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
House Side	Lumens	1585.0	0.0	1585.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	16061.2	0.0	16061.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	17646.2	0.0	17646.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	1.5
10°-20°	614.4	3.5
20°-30°	973.2	5.5
30°-40°	1678.4	9.5
40°-50°	2834.2	16.1
50°-60°	4164.3	23.6
60°-70°	4937.0	28.0
70°-80°	2105.4	11.9
80°-90°	66.1	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°	17646.2	100.0
0°-180°	17646.2	100.0

Coefficient of Utilization



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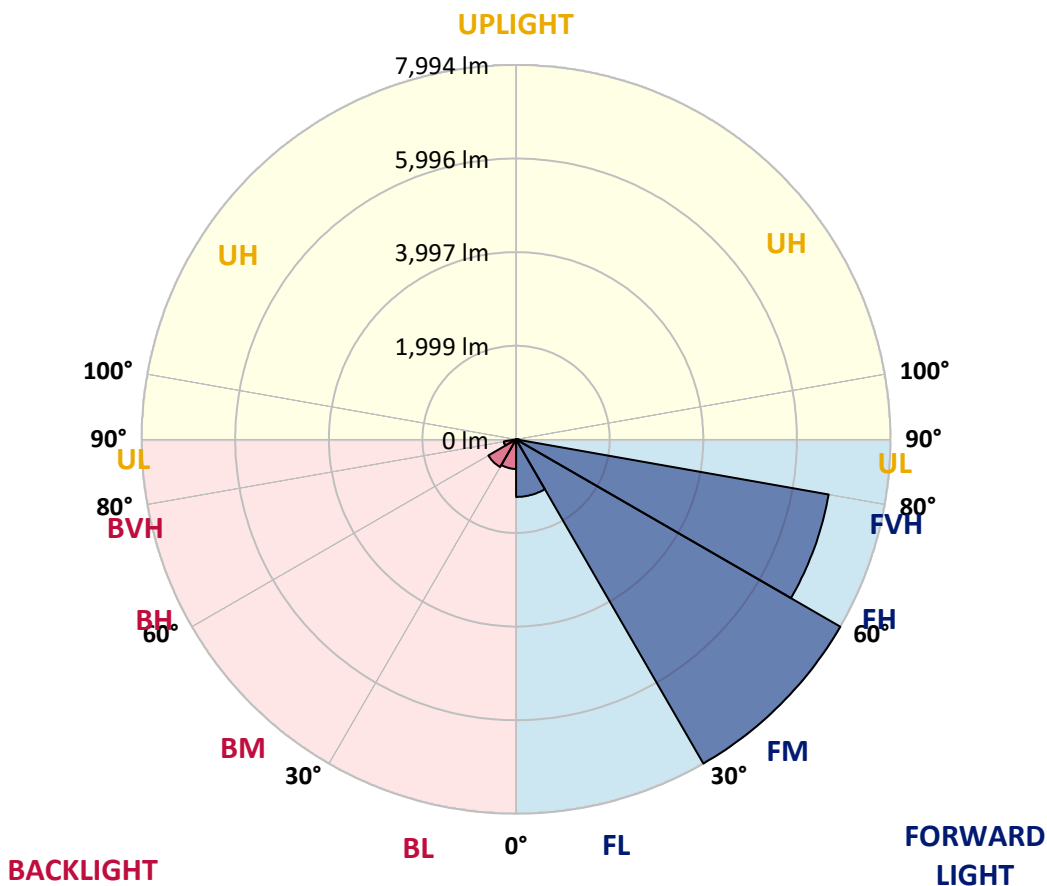
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.6	7.0			
FM (30°-60°)	7994.2	45.3			
FH (60°-80°)	6778.0	38.4			G3/7500
FVH (80°-90°)	59.4	0.3			G1/100
BL (0°-30°)	631.2	3.6	B2/1000		
BM (30°-60°)	682.7	3.9	B1/1000		
BH (60°-80°)	264.4	1.5	B1/500		G1/500
BVH (80°-90°)	6.7	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°	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8
2.5°	2962.0	2957.2	2960.4	2984.6	3029.9	3050.9	3086.4	3092.9	3122.0	3159.2	3173.7
5°	2769.7	2753.6	2761.6	2795.6	2847.3	2905.5	2971.7	2989.5	3062.2	3144.6	3206.0
7.5°	2593.6	2575.8	2595.2	2648.5	2721.2	2784.3	2882.8	2894.1	3010.5	3155.9	3267.4
10°	2317.3	2322.1	2360.9	2454.6	2566.1	2697.0	2829.5	2845.7	2989.5	3193.1	3366.0
12.5°	2105.6	2094.3	2136.3	2242.9	2399.7	2590.4	2789.1	2810.1	2991.1	3249.7	3492.0
15°	2007.0	2003.8	2021.5	2099.1	2251.0	2475.6	2751.9	2779.4	3012.1	3301.4	3611.6
17.5°	2010.2	2005.4	2003.8	2049.0	2162.1	2390.0	2711.5	2747.1	3029.9	3357.9	3737.7
20°	2150.8	2128.2	2087.8	2066.8	2134.7	2335.0	2684.1	2724.5	3055.7	3417.7	3871.8
22.5°	2444.9	2453.0	2344.7	2231.6	2199.3	2341.5	2680.8	2727.7	3112.3	3511.4	4036.6
25°	3033.1	3020.2	2819.8	2566.1	2390.0	2415.8	2737.4	2794.0	3223.8	3645.6	4191.8
27.5°	3770.0	3781.3	3506.6	3102.6	2734.2	2569.3	2840.8	2897.4	3353.1	3729.6	4295.2
30°	4573.1	4561.8	4267.7	3820.1	3222.2	2824.7	2944.2	2994.3	3417.7	3774.8	4401.8
32.5°	5332.6	5306.7	5015.9	4547.3	3844.3	3227.0	3086.4	3115.5	3503.4	3873.4	4545.6
35°	5980.6	5979.0	5725.3	5226.0	4484.2	3731.2	3330.5	3354.7	3663.3	4030.2	4757.3
37.5°	6649.6	6627.0	6342.6	5886.9	5141.9	4283.9	3703.7	3694.0	3915.4	4261.2	5017.5
40°	7199.0	7184.5	6966.3	6528.4	5825.5	4894.7	4156.2	4127.1	4214.4	4581.2	5379.5
42.5°	7606.2	7607.8	7540.0	7273.3	6549.4	5600.9	4725.0	4679.8	4678.1	5064.4	5857.8
45°	7914.9	7935.9	8037.7	7997.3	7404.2	6423.4	5453.8	5406.9	5327.8	5691.3	6405.6
47.5°	8058.7	8086.2	8393.2	8554.8	8152.4	7239.4	6321.6	6223.0	6067.9	6525.2	7018.0
50°	8044.2	8092.6	8520.9	9012.1	8831.1	8066.8	7266.9	7220.0	6966.3	7407.5	7624.0
52.5°	7714.5	7817.9	8528.9	9290.0	9353.1	8829.5	8244.5	8157.3	8034.5	8328.6	8192.8
55°	6819.3	6945.3	8188.0	9378.9	9760.3	9495.3	9201.2	9130.1	8926.5	9197.9	8688.9
57.5°	6332.9	6441.1	7470.5	9335.3	10106.1	10110.9	10052.8	9994.6	9826.5	10057.6	9270.7
60°	6040.4	6148.7	7087.5	9175.3	10419.6	10760.5	10852.7	10846.2	10603.8	11035.3	9952.6
62.5°	5612.2	5760.8	6688.4	8760.0	10642.6	11400.5	11678.4	11634.8	11364.9	12053.3	10628.0
65°	4747.6	4876.9	5870.7	8074.9	10511.7	11930.5	12573.6	12596.3	12284.4	13011.6	11161.3
67.5°	3328.8	3424.2	4411.5	6636.7	9622.9	12105.0	13489.9	13488.3	12956.6	13502.8	10925.4
70°	1929.4	2060.3	2606.5	4102.9	7486.7	11311.6	13627.2	13674.1	12683.5	12476.7	9041.2
72.5°	746.6	854.8	1477.0	2179.9	3904.1	8664.7	11722.0	11859.4	10615.1	9624.5	6292.5
75°	223.0	248.9	694.9	1160.2	1567.5	4185.3	7935.9	7974.7	7281.4	6003.2	3225.4
77.5°	166.4	184.2	303.8	586.6	549.4	1268.5	4106.1	4484.2	3865.3	2144.4	888.8
80°	113.1	134.1	216.5	286.0	203.6	337.7	1153.8	1266.9	1179.6	481.6	223.0
82.5°	50.1	64.6	153.5	143.8	74.3	97.0	355.5	378.1	244.0	145.4	77.6
85°	4.8	6.5	58.2	63.0	27.5	22.6	74.3	74.3	53.3	50.1	32.3
87.5°	0.0	0.0	1.6	3.2	3.2	4.8	6.5	8.1	9.7	12.9	16.2
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°	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8
2.5°	3210.9	3191.5	3215.7	3235.1	3240.0	3204.4	3183.4	3152.7	3146.2	3147.9	3139.8
5°	3254.5	3244.8	3262.6	3241.6	3186.6	3083.2	2994.3	2895.8	2842.4	2811.7	2808.5
7.5°	3335.3	3330.5	3311.1	3215.7	3044.4	2815.0	2593.6	2377.0	2242.9	2194.4	2186.4
10°	3454.9	3445.2	3366.0	3139.8	2774.6	2333.4	1961.8	1651.5	1462.4	1407.5	1339.6
12.5°	3592.2	3572.8	3399.9	2976.6	2367.4	1756.5	1292.8	945.3	782.1	733.6	733.6
15°	3724.7	3682.7	3380.5	2706.7	1866.4	1142.5	722.3	546.2	496.1	483.2	483.2
17.5°	3860.5	3779.7	3304.6	2338.3	1289.5	675.5	481.6	447.6	441.2	442.8	444.4
20°	3988.1	3862.1	3170.5	1895.5	822.5	471.9	431.5	423.4	420.1	423.4	421.8
22.5°	4127.1	3938.0	2966.9	1412.3	534.9	425.0	410.4	404.0	400.8	405.6	405.6
25°	4264.5	3993.0	2697.0	950.2	425.0	395.9	387.8	381.4	378.1	379.7	379.7
27.5°	4335.6	3972.0	2343.1	606.0	381.4	366.8	358.7	350.7	345.8	344.2	345.8
30°	4384.0	3907.3	1910.0	431.5	345.8	328.0	320.0	313.5	300.6	292.5	295.7
32.5°	4460.0	3842.7	1439.8	362.0	316.7	289.3	276.3	260.2	242.4	234.3	234.3
35°	4550.5	3753.8	1010.0	326.4	286.0	256.9	232.7	205.2	184.2	177.8	177.8
37.5°	4670.1	3669.8	672.2	302.2	260.2	229.5	195.5	163.2	140.6	137.4	135.7
40°	4849.4	3598.7	473.5	284.4	237.5	200.4	160.0	126.0	109.9	105.0	105.0
42.5°	5082.1	3526.0	374.9	266.6	218.2	172.9	127.7	100.2	87.3	84.0	82.4
45°	5369.8	3440.3	326.4	250.5	198.8	143.8	101.8	84.0	74.3	71.1	71.1
47.5°	5681.6	3324.0	303.8	229.5	176.1	116.3	85.6	72.7	67.9	66.3	64.6
50°	5988.7	3167.2	284.4	210.1	150.3	95.3	74.3	66.3	63.0	61.4	61.4
52.5°	6256.9	2984.6	260.2	187.4	122.8	82.4	66.3	61.4	58.2	54.9	53.3
55°	6486.4	2785.9	229.5	161.6	100.2	72.7	61.4	56.6	53.3	50.1	48.5
57.5°	6782.1	2672.8	184.2	130.9	82.4	64.6	56.6	51.7	48.5	43.6	43.6
60°	7110.1	2590.4	137.4	103.4	71.1	59.8	51.7	46.9	43.6	38.8	38.8
62.5°	7373.5	2467.5	108.3	84.0	61.4	53.3	46.9	42.0	38.8	33.9	33.9
65°	7473.7	2213.8	88.9	66.3	50.1	46.9	42.0	38.8	33.9	29.1	29.1
67.5°	7021.3	1706.4	74.3	53.3	42.0	40.4	37.2	35.6	29.1	25.9	24.2
70°	5560.5	1040.7	61.4	43.6	35.6	33.9	33.9	30.7	25.9	24.2	22.6
72.5°	3810.4	536.5	50.1	35.6	30.7	30.7	29.1	27.5	24.2	22.6	22.6
75°	1979.5	179.4	38.8	27.5	24.2	25.9	25.9	24.2	22.6	22.6	21.0
77.5°	567.2	80.8	29.1	21.0	19.4	19.4	21.0	21.0	21.0	19.4	19.4
80°	147.1	46.9	21.0	16.2	16.2	16.2	16.2	17.8	19.4	17.8	17.8
82.5°	59.8	25.9	14.5	12.9	12.9	12.9	12.9	14.5	16.2	16.2	16.2
85°	37.2	12.9	11.3	11.3	11.3	9.7	9.7	11.3	11.3	12.9	12.9
87.5°	22.6	9.7	9.7	9.7	9.7	8.1	8.1	8.1	8.1	8.1	8.1
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)