

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: P638883

Luminaire Tested: GWS-SA4F-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25201.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

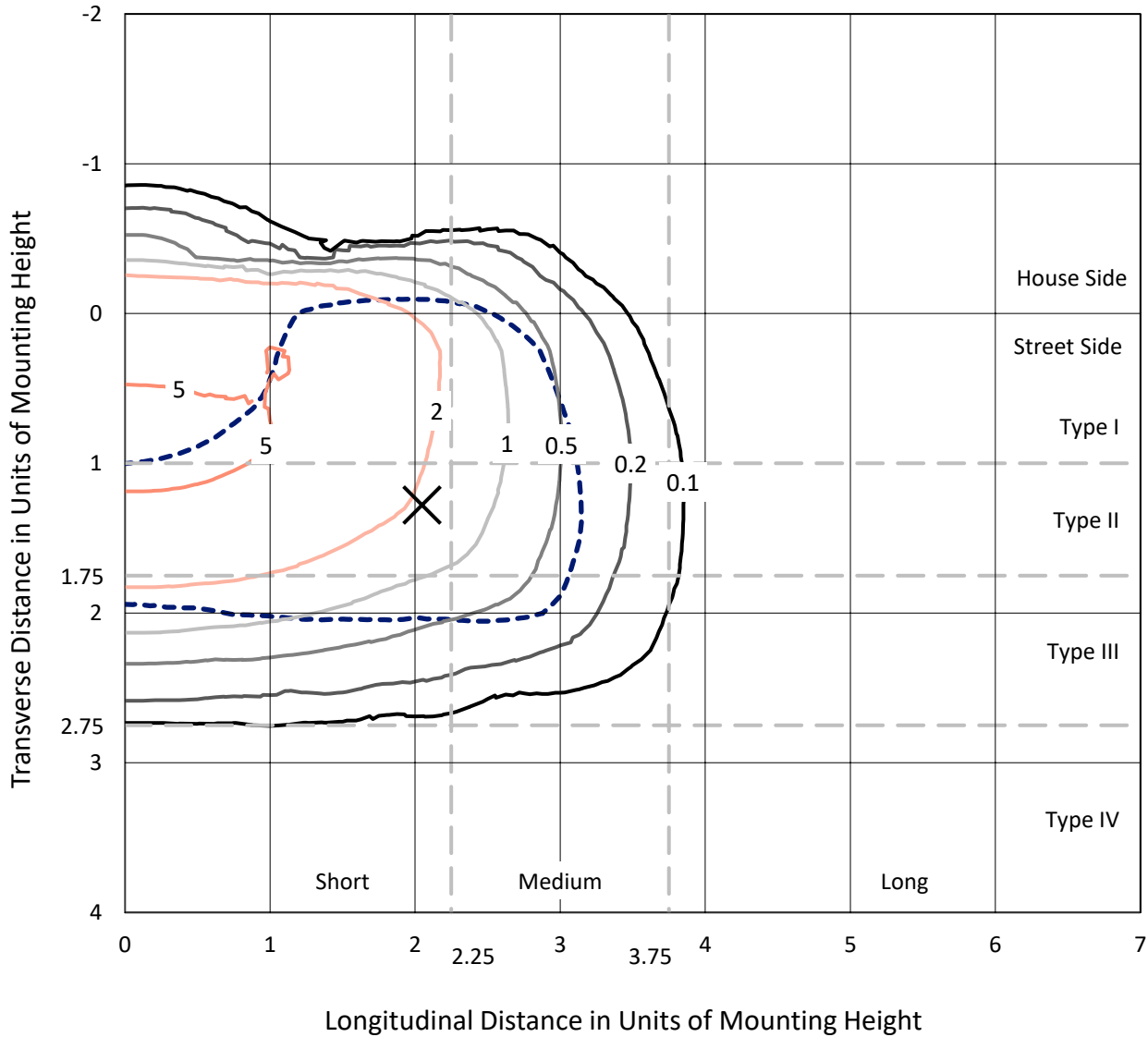
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

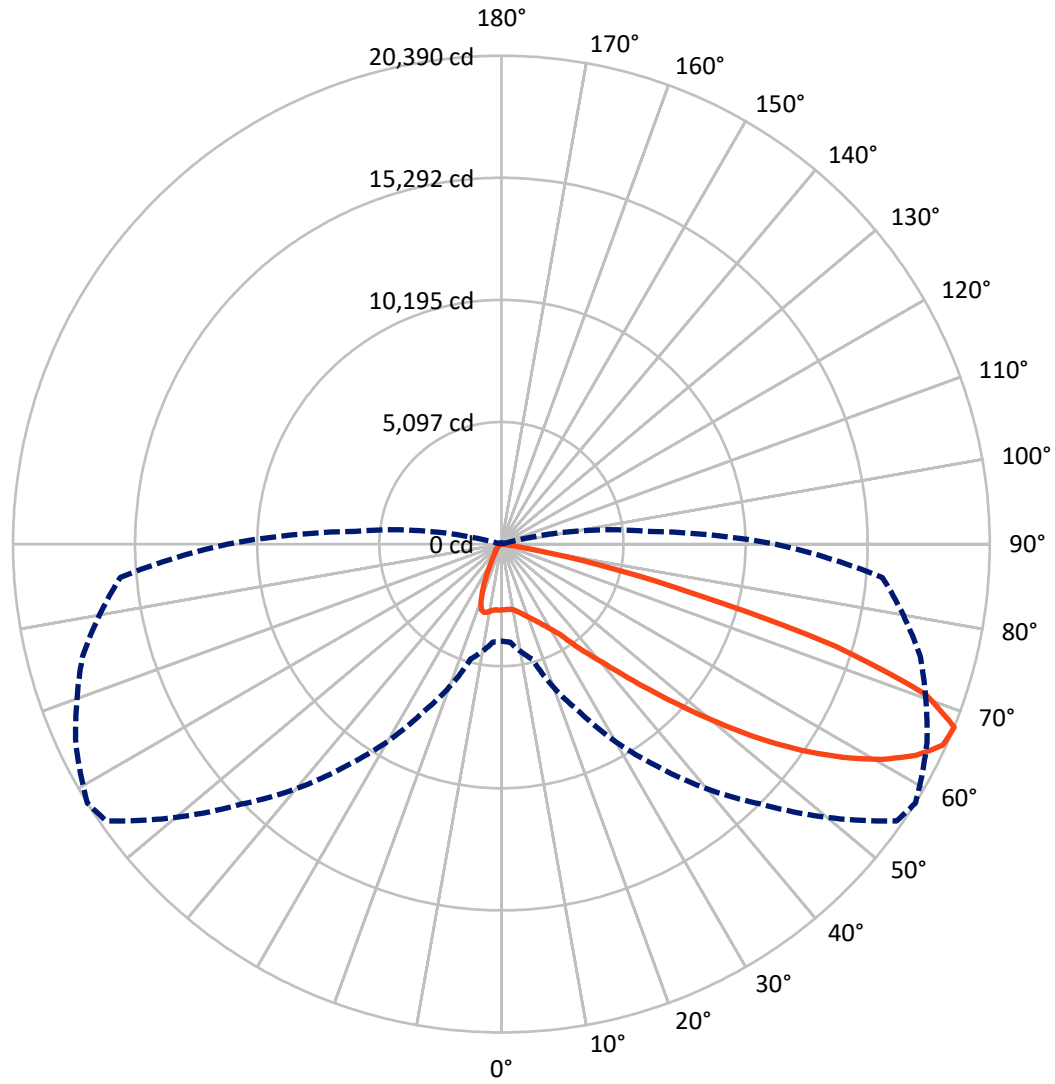
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2749.4	0.0	2749.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	22451.9	0.0	22451.9
	% Fixture	89.1	0.0	89.1
Total	Lumens	25201.3	0.0	25201.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	1.0
10°-20°	724.3	2.9
20°-30°	1264.3	5.0
30°-40°	2257.9	9.0
40°-50°	4127.0	16.4
50°-60°	6863.6	27.2
60°-70°	7455.1	29.6
70°-80°	2188.9	8.7
80°-90°	62.3	0.2
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°	25201.3	100.0
0°-180°	25201.3	100.0

Coefficient of Utilization



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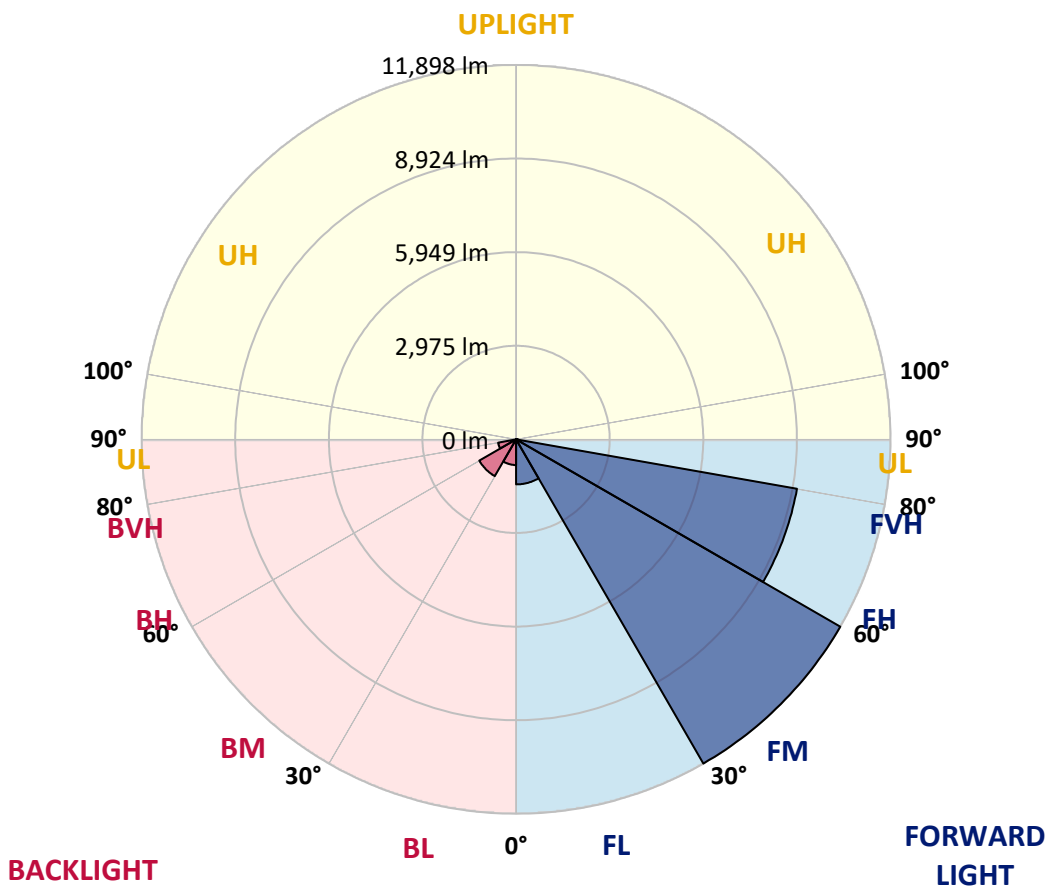
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1431.0	5.7			
FM (30°-60°)	11898.1	47.2			
FH (60°-80°)	9063.5	36.0			G4/12000
FVH (80°-90°)	59.3	0.2			G1/100
BL (0°-30°)	815.5	3.2	B2/1000		
BM (30°-60°)	1350.4	5.4	B2/2500		
BH (60°-80°)	580.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2
2.5°	2694.5	2689.6	2689.6	2709.3	2711.7	2721.6	2743.7	2746.2	2758.5	2753.6	2736.3
5°	2554.3	2556.7	2571.5	2605.9	2635.5	2672.4	2726.5	2738.8	2765.9	2780.6	2770.8
7.5°	2423.8	2426.3	2448.4	2502.6	2559.2	2633.0	2721.6	2746.2	2800.3	2839.7	2842.2
10°	2374.6	2372.2	2394.3	2455.8	2529.6	2633.0	2761.0	2792.9	2874.1	2943.0	2955.4
12.5°	2389.4	2386.9	2409.1	2465.7	2546.9	2677.3	2829.9	2874.1	2977.5	3083.3	3105.5
15°	2448.4	2446.0	2460.7	2507.5	2596.1	2731.4	2918.4	2984.9	3115.3	3243.3	3277.7
17.5°	2625.6	2613.3	2598.5	2603.5	2655.1	2795.4	3031.6	3112.8	3275.2	3427.8	3457.3
20°	2940.6	2908.6	2869.2	2817.6	2792.9	2888.9	3162.1	3255.6	3452.4	3627.1	3632.1
22.5°	3415.5	3403.2	3312.2	3162.1	3056.2	3058.7	3314.6	3422.9	3664.0	3856.0	3828.9
25°	4077.5	4070.1	3929.8	3683.7	3408.1	3314.6	3509.0	3619.8	3915.0	4119.3	4033.2
27.5°	4899.3	4847.7	4682.8	4350.6	3939.6	3646.8	3755.1	3853.5	4180.8	4372.7	4210.3
30°	5615.4	5617.9	5462.8	5115.9	4653.3	4146.4	4055.3	4141.4	4424.4	4626.2	4429.3
32.5°	6304.4	6326.6	6156.8	5844.3	5337.4	4798.4	4485.9	4500.7	4736.9	4955.9	4717.2
35°	6944.2	6961.4	6843.3	6577.6	6105.1	5480.1	5086.4	5079.0	5206.9	5430.9	5118.3
37.5°	7660.3	7677.5	7561.9	7323.2	6880.2	6260.1	5768.0	5758.1	5809.8	5991.9	5635.1
40°	8423.1	8455.1	8327.2	8125.4	7702.1	7178.0	6560.3	6471.8	6420.1	6634.2	6304.4
42.5°	9195.8	9245.0	9200.7	8998.9	8637.2	8204.1	7588.9	7451.1	7340.4	7608.6	7259.2
45°	10155.5	10214.5	10194.9	10039.8	9759.3	9407.4	8826.7	8666.7	8615.1	8863.6	8447.7
47.5°	11078.3	11142.2	11213.6	11179.2	10979.8	10817.4	10172.7	10081.7	10066.9	10332.7	9687.9
50°	11764.8	11823.9	12097.0	12293.9	12429.2	12394.8	11836.2	11700.8	11678.7	11848.5	10997.1
52.5°	12257.0	12313.6	12690.0	13305.2	13802.3	14073.0	13509.5	13479.9	13359.4	13300.3	12222.5
55°	12638.4	12717.1	13113.3	14043.5	15045.0	15645.4	15293.5	15187.7	14877.6	14538.1	13359.4
57.5°	12714.7	12746.6	13305.2	14560.2	16009.6	16981.6	16981.6	16797.0	16199.1	15729.1	14673.4
60°	12030.6	12129.0	12884.4	14518.4	16423.0	17855.1	18381.7	18253.8	17446.7	16868.4	15938.2
62.5°	10512.3	10623.0	11543.3	13516.9	16009.6	18034.8	19442.3	19422.6	18512.2	17810.9	16986.5
65°	8061.4	8142.6	8944.8	11307.1	14262.5	17343.3	20200.2	20254.4	19353.7	18433.4	17348.2
67.5°	4050.4	4107.0	4973.2	7724.3	11304.7	15352.6	20148.6	20389.7	19609.7	18103.7	15967.8
70°	1414.9	1471.5	1880.0	3314.6	6880.2	11723.0	18406.4	18800.1	18106.1	15453.5	11779.6
72.5°	484.8	511.8	780.1	1230.4	2677.3	6949.1	13996.7	14589.7	13347.1	10374.5	6769.5
75°	275.6	292.8	418.3	666.9	1122.1	2286.0	7940.8	8305.0	7780.9	5654.8	2785.6
77.5°	187.0	201.8	260.8	379.0	620.1	735.8	3238.3	4077.5	3555.8	1845.6	711.2
80°	110.7	120.6	159.9	223.9	317.4	285.4	693.9	922.8	1188.5	551.2	214.1
82.5°	51.7	59.1	103.4	147.6	159.9	120.6	204.2	248.5	334.7	270.7	88.6
85°	0.0	0.0	34.5	61.5	59.1	34.5	56.6	61.5	91.0	135.3	34.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	4.9	7.4	14.8	27.1	14.8
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°	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2	2746.2
2.5°	2756.0	2738.8	2758.5	2748.6	2758.5	2756.0	2736.3	2724.0	2724.0	2701.9	2694.5
5°	2790.5	2773.3	2778.2	2756.0	2751.1	2738.8	2714.2	2704.4	2704.4	2682.2	2674.8
7.5°	2866.8	2839.7	2834.8	2790.5	2770.8	2736.3	2692.1	2674.8	2672.4	2650.2	2642.8
10°	2987.3	2955.4	2933.2	2876.6	2820.0	2751.1	2657.6	2578.9	2534.6	2475.5	2470.6
12.5°	3135.0	3095.6	3061.2	2975.0	2881.5	2726.5	2450.9	2163.0	1985.8	1845.6	1855.4
15°	3299.9	3262.9	3208.8	3078.4	2886.5	2482.9	1907.1	1464.1	1247.6	1131.9	1127.0
17.5°	3479.5	3425.4	3336.8	3159.6	2731.4	1897.2	1240.2	876.0	762.8	723.5	713.6
20°	3646.8	3580.4	3469.6	3176.8	2283.6	1284.5	775.1	679.2	659.5	647.2	647.2
22.5°	3824.0	3740.3	3575.5	3043.9	1697.9	821.9	659.5	637.3	622.6	605.3	602.9
25°	4003.6	3895.4	3671.4	2697.0	1112.3	647.2	617.6	593.0	566.0	538.9	531.5
27.5°	4156.2	4015.9	3745.3	2180.2	713.6	583.2	563.5	521.7	484.8	455.2	450.3
30°	4338.3	4158.7	3777.2	1594.6	561.0	514.3	484.8	440.5	396.2	366.7	356.8
32.5°	4581.9	4385.0	3728.0	1038.4	497.1	452.8	406.0	354.3	310.1	278.1	273.1
35°	4960.9	4727.1	3501.6	661.9	450.3	391.3	334.7	280.5	243.6	219.0	214.1
37.5°	5423.5	5206.9	3130.1	497.1	403.6	339.6	273.1	221.5	194.4	177.2	172.3
40°	6110.0	5807.4	2669.9	435.6	356.8	287.9	223.9	182.1	162.4	147.6	142.7
42.5°	7000.8	6516.0	2140.8	396.2	312.5	241.2	182.1	150.1	132.9	123.0	120.6
45°	8041.7	7207.5	1582.3	356.8	270.7	199.3	150.1	123.0	110.7	103.4	100.9
47.5°	9107.2	7812.9	1092.6	315.0	231.3	164.9	125.5	105.8	96.0	86.1	83.7
50°	10244.1	8324.7	745.6	273.1	196.9	135.3	108.3	96.0	83.7	76.3	73.8
52.5°	11078.3	8514.2	519.2	236.2	167.3	115.7	96.0	86.1	76.3	66.4	64.0
55°	11848.5	8509.2	393.7	199.3	142.7	100.9	86.1	76.3	66.4	59.1	56.6
57.5°	12616.2	8442.8	310.1	169.8	123.0	91.0	76.3	66.4	61.5	51.7	49.2
60°	13113.3	8191.8	241.2	142.7	105.8	78.7	66.4	59.1	51.7	44.3	41.8
62.5°	13376.6	7842.4	184.6	113.2	86.1	68.9	59.1	51.7	44.3	36.9	34.5
65°	13019.8	7222.3	145.2	88.6	66.4	59.1	49.2	41.8	34.5	27.1	24.6
67.5°	11437.5	6090.3	113.2	71.4	51.7	44.3	41.8	34.5	24.6	19.7	17.2
70°	8083.5	4171.0	88.6	54.1	39.4	34.5	32.0	27.1	19.7	14.8	12.3
72.5°	4436.7	2103.9	64.0	39.4	29.5	27.1	24.6	22.1	17.2	12.3	12.3
75°	1707.8	578.3	46.8	27.1	19.7	19.7	17.2	17.2	14.8	9.8	9.8
77.5°	445.4	172.3	29.5	17.2	12.3	12.3	12.3	9.8	9.8	7.4	7.4
80°	142.7	56.6	17.2	12.3	9.8	7.4	7.4	4.9	7.4	4.9	4.9
82.5°	46.8	19.7	9.8	9.8	7.4	4.9	4.9	2.5	2.5	0.0	0.0
85°	17.2	9.8	7.4	4.9	4.9	4.9	2.5	0.0	0.0	0.0	0.0
87.5°	9.8	4.9	4.9	4.9	4.9	2.5	0.0	0.0	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)