

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: P636222

Luminaire Tested: GWS-SA3F-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19000.9 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

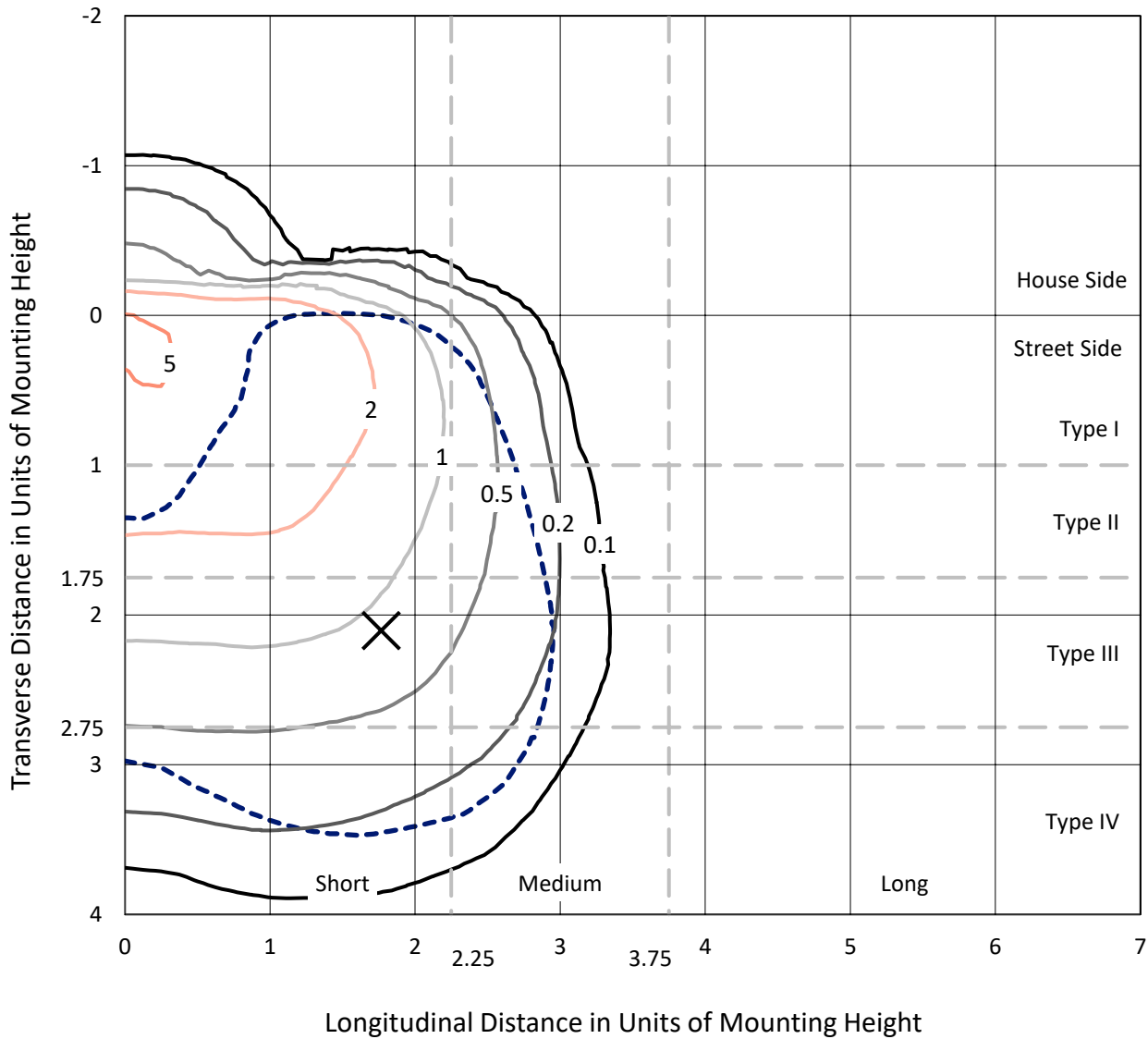
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

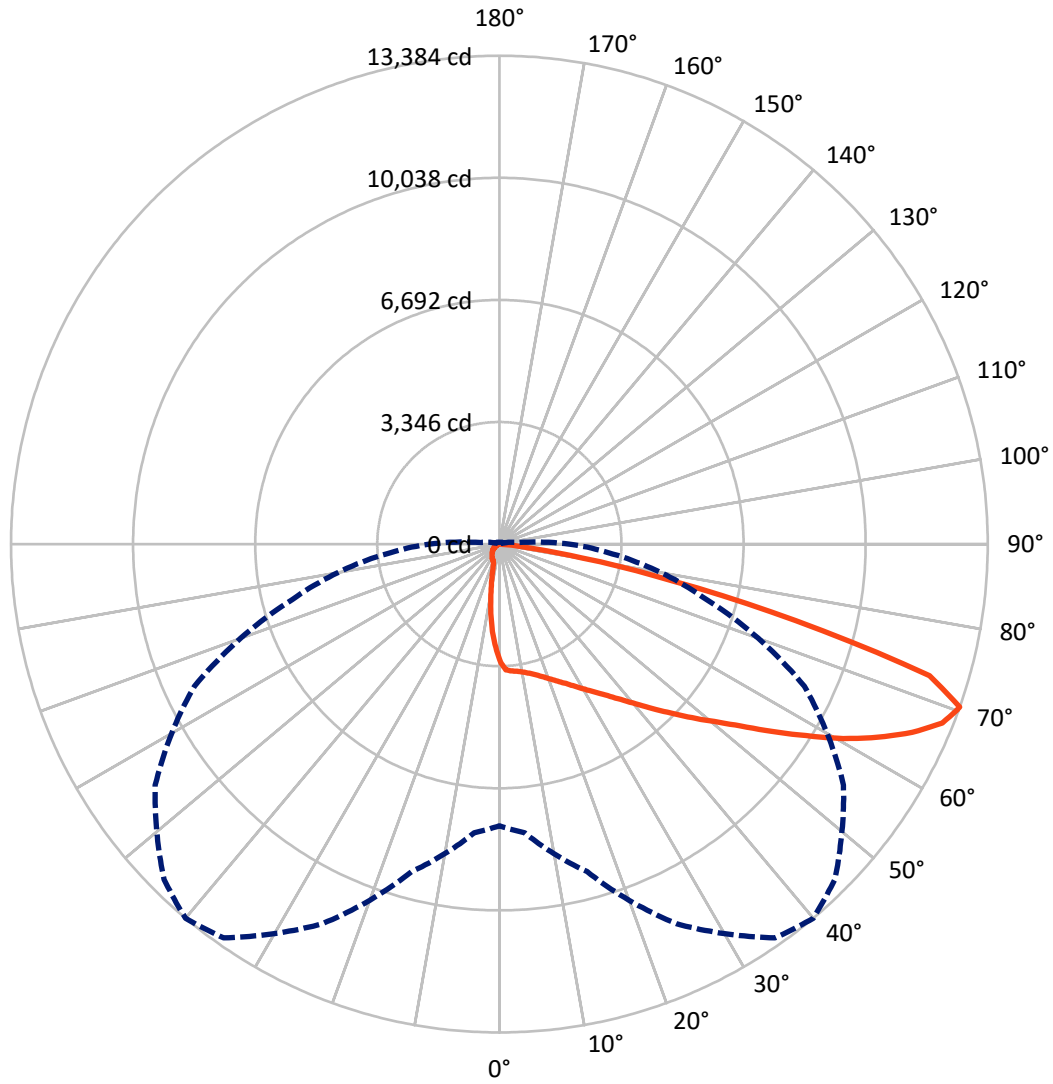
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1553.8	0.0	1553.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	17447.1	0.0	17447.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	19000.9	0.0	19000.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.5	1.4
10°-20°	691.1	3.6
20°-30°	1156.8	6.1
30°-40°	1816.8	9.6
40°-50°	2873.8	15.1
50°-60°	4192.2	22.1
60°-70°	5196.8	27.4
70°-80°	2629.3	13.8
80°-90°	171.6	0.9
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°	19000.9	100.0
0°-180°	19000.9	100.0

Coefficient of Utilization



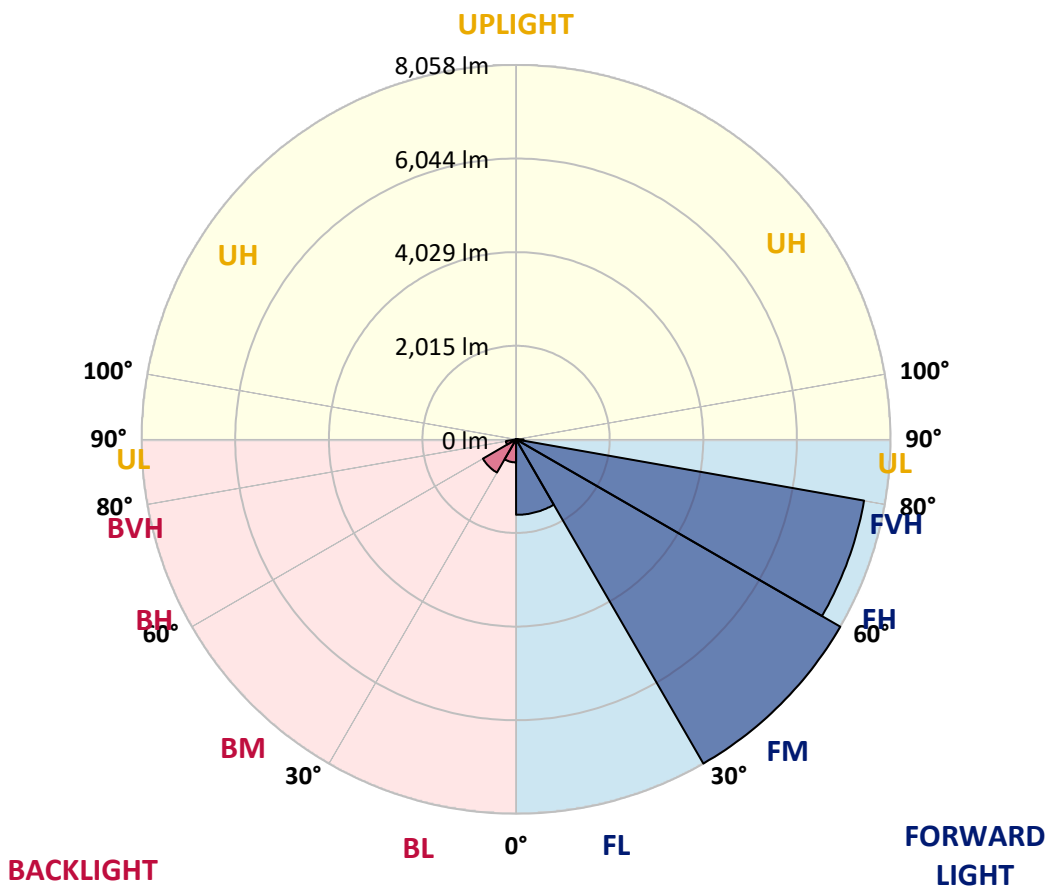
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1624.2	8.5			
FM (30°-60°)	8058.1	42.4			
FH (60°-80°)	7604.5	40.0			G4/12000
FVH (80°-90°)	160.3	0.8			G2/225
BL (0°-30°)	496.2	2.6	B1/500		
BM (30°-60°)	824.7	4.3	B1/1000		
BH (60°-80°)	221.5	1.2	B1/500		G1/500
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2
2.5°	3466.3	3478.4	3476.6	3481.8	3469.7	3450.7	3447.2	3421.3	3374.6	3315.9	3250.2
5°	3537.1	3551.0	3540.6	3535.4	3512.9	3492.2	3487.0	3459.3	3405.7	3326.2	3212.1
7.5°	3597.6	3601.1	3594.2	3582.1	3549.2	3521.6	3502.6	3464.5	3400.6	3321.0	3189.6
10°	3608.0	3606.3	3609.7	3611.5	3590.7	3566.5	3551.0	3499.1	3417.9	3333.1	3191.4
12.5°	3595.9	3595.9	3618.4	3644.3	3644.3	3632.2	3616.7	3570.0	3474.9	3374.6	3226.0
15°	3611.5	3616.7	3659.9	3708.3	3723.9	3711.7	3704.8	3656.4	3557.9	3447.2	3288.2
17.5°	3666.8	3672.0	3741.1	3813.7	3832.8	3818.9	3805.1	3756.7	3651.2	3530.2	3359.1
20°	3748.1	3761.9	3850.1	3943.4	3960.7	3943.4	3915.7	3848.3	3742.9	3620.1	3426.5
22.5°	3896.7	3905.4	4000.5	4099.0	4107.6	4080.0	4038.5	3945.1	3834.5	3715.2	3502.6
25°	4093.8	4105.9	4201.0	4296.1	4273.6	4232.1	4175.1	4069.6	3943.4	3827.6	3599.4
27.5°	4328.9	4342.8	4436.1	4519.1	4460.3	4411.9	4347.9	4216.6	4088.6	3983.2	3723.9
30°	4583.1	4595.2	4678.2	4752.5	4674.7	4617.6	4541.6	4406.7	4277.1	4197.5	3900.2
32.5°	4828.6	4826.8	4906.4	4966.9	4887.3	4842.4	4773.2	4636.7	4532.9	4498.4	4163.0
35°	5056.8	5056.8	5122.5	5183.0	5125.9	5101.7	5037.7	4928.8	4870.0	4911.5	4513.9
37.5°	5286.7	5274.6	5336.8	5404.3	5399.1	5400.8	5364.5	5312.6	5316.1	5463.0	4996.3
40°	5476.9	5471.7	5544.3	5632.5	5701.6	5756.9	5734.5	5753.5	5862.4	6137.3	5613.4
42.5°	5629.0	5641.1	5734.5	5874.5	6049.1	6161.5	6177.0	6254.8	6534.9	6960.2	6310.1
45°	5803.6	5805.3	5935.0	6149.4	6427.7	6605.8	6668.0	6868.5	7266.2	7814.2	7074.3
47.5°	6018.0	5997.2	6142.5	6443.3	6846.1	7108.9	7219.5	7470.2	8085.6	8647.5	7696.6
50°	6254.8	6216.8	6381.0	6790.8	7314.6	7643.1	7867.8	8234.3	8898.2	9332.1	8160.0
52.5°	6529.7	6493.4	6680.1	7190.1	7876.4	8275.8	8564.5	8934.5	9594.9	9854.2	8436.6
55°	6878.9	6842.6	7039.7	7669.0	8540.3	9058.9	9361.5	9672.7	10243.2	10239.7	8637.1
57.5°	7266.2	7216.0	7489.2	8274.1	9368.4	9907.8	10215.5	10367.7	10735.9	10538.8	8772.0
60°	7710.5	7665.5	8044.1	8995.0	10324.4	10824.1	11017.7	10955.4	11140.4	10715.1	8725.3
62.5°	8111.6	8090.8	8561.1	9759.1	11235.5	11657.3	11710.9	11439.5	11437.8	10718.6	8410.6
65°	8528.2	8568.0	9266.4	10639.1	12151.8	12435.3	12343.7	11920.1	11557.1	10295.0	7480.5
67.5°	8683.8	8799.6	9731.5	11434.3	12874.4	13095.7	12934.9	12160.4	11060.9	8870.5	5696.4
70°	7722.6	7940.4	9292.3	11479.3	13173.5	13384.4	12998.9	11513.9	9221.5	5876.2	3120.5
72.5°	5872.8	6126.9	7743.3	9399.5	11847.5	12328.1	11669.4	9380.5	5943.6	2574.2	1047.7
75°	3286.5	3561.3	5767.3	7077.7	7954.2	8393.4	8151.3	6018.0	2633.0	672.5	312.9
77.5°	1111.6	1203.2	2683.1	4379.1	5250.4	4856.2	4111.1	2989.1	968.1	255.9	166.0
80°	658.7	693.3	999.3	2180.0	2762.6	2290.7	1808.3	1104.7	492.7	136.6	115.8
82.5°	197.1	233.4	551.5	809.1	1082.2	674.2	570.5	631.0	255.9	74.3	96.8
85°	0.0	0.0	117.6	250.7	283.5	110.6	110.6	357.9	46.7	31.1	70.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.6	5.2	6.9	15.6
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°	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2	3224.2
2.5°	3203.5	3143.0	3072.1	3004.7	2940.7	2857.7	2818.0	2769.5	2728.1	2705.6	2717.7
5°	3139.5	3044.4	2899.2	2752.3	2603.6	2463.5	2337.3	2252.6	2176.6	2136.8	2145.4
7.5°	3084.2	2956.3	2729.8	2489.5	2250.9	2010.6	1815.2	1663.1	1545.6	1497.1	1488.5
10°	3060.0	2899.2	2579.4	2233.6	1867.1	1543.8	1267.2	1099.5	980.2	921.5	931.8
12.5°	3072.1	2869.8	2451.4	1982.9	1507.5	1130.6	866.1	708.8	624.1	589.5	580.9
15°	3106.7	2862.9	2337.3	1727.1	1163.5	790.1	598.2	534.2	516.9	513.5	513.5
17.5°	3146.4	2864.6	2219.8	1467.8	883.4	586.1	511.7	499.6	494.4	491.0	492.7
20°	3186.2	2864.6	2084.9	1205.0	663.9	506.5	487.5	478.9	473.7	472.0	472.0
22.5°	3234.6	2864.6	1934.5	961.2	532.5	480.6	465.0	459.9	454.7	452.9	451.2
25°	3293.4	2866.4	1768.6	752.0	484.1	458.1	446.0	440.8	435.7	432.2	432.2
27.5°	3378.1	2880.2	1585.3	586.1	456.4	437.4	427.0	421.8	416.6	411.5	411.5
30°	3500.8	2914.8	1379.6	484.1	430.5	414.9	404.5	401.1	395.9	390.7	389.0
32.5°	3684.1	2975.3	1166.9	433.9	406.3	390.7	378.6	375.2	370.0	364.8	363.0
35°	3940.0	3085.9	959.5	402.8	375.2	359.6	352.7	350.9	344.0	338.8	338.8
37.5°	4315.1	3265.7	760.7	371.7	349.2	337.1	328.5	325.0	318.1	312.9	311.2
40°	4773.2	3499.1	591.3	347.5	325.0	312.9	304.3	299.1	290.4	283.5	280.1
42.5°	5357.6	3784.4	466.8	321.6	302.5	290.4	283.5	273.2	261.0	250.7	248.9
45°	5966.1	4078.3	385.5	297.4	281.8	271.4	262.8	248.9	231.7	219.6	216.1
47.5°	6432.9	4261.5	337.1	271.4	259.3	250.7	240.3	223.0	202.3	188.4	185.0
50°	6766.6	4289.2	300.8	247.2	240.3	231.7	216.1	195.4	172.9	159.1	155.6
52.5°	6930.8	4164.7	271.4	224.7	219.6	210.9	191.9	169.4	145.2	131.4	127.9
55°	7005.1	3929.6	243.8	205.7	198.8	188.4	167.7	143.5	119.3	107.2	103.7
57.5°	6975.7	3582.1	219.6	186.7	178.1	166.0	143.5	117.6	98.5	86.4	84.7
60°	6757.9	3094.6	195.4	167.7	157.3	143.5	121.0	96.8	79.5	70.9	69.2
62.5°	6287.7	2489.5	171.2	145.2	138.3	124.5	103.7	79.5	65.7	60.5	58.8
65°	5324.7	1759.9	146.9	122.7	119.3	105.5	86.4	65.7	57.1	53.6	51.9
67.5°	3827.6	1070.1	124.5	105.5	102.0	89.9	72.6	57.1	51.9	50.1	50.1
70°	1924.2	506.5	98.5	86.4	86.4	74.3	62.2	51.9	50.1	48.4	48.4
72.5°	653.5	216.1	74.3	67.4	70.9	64.0	53.6	48.4	48.4	48.4	48.4
75°	223.0	114.1	51.9	48.4	51.9	51.9	46.7	46.7	48.4	48.4	48.4
77.5°	145.2	76.1	36.3	32.8	39.8	39.8	39.8	43.2	46.7	46.7	46.7
80°	119.3	41.5	24.2	22.5	29.4	29.4	32.8	39.8	43.2	43.2	43.2
82.5°	102.0	25.9	13.8	15.6	20.7	22.5	27.7	32.8	38.0	39.8	39.8
85°	69.2	13.8	10.4	12.1	13.8	17.3	22.5	27.7	31.1	34.6	34.6
87.5°	19.0	5.2	6.9	8.6	8.6	12.1	17.3	20.7	24.2	25.9	25.9
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)