

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: P638532

Luminaire Tested: GWS-SA4F-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638532
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-SA4F-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19747 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

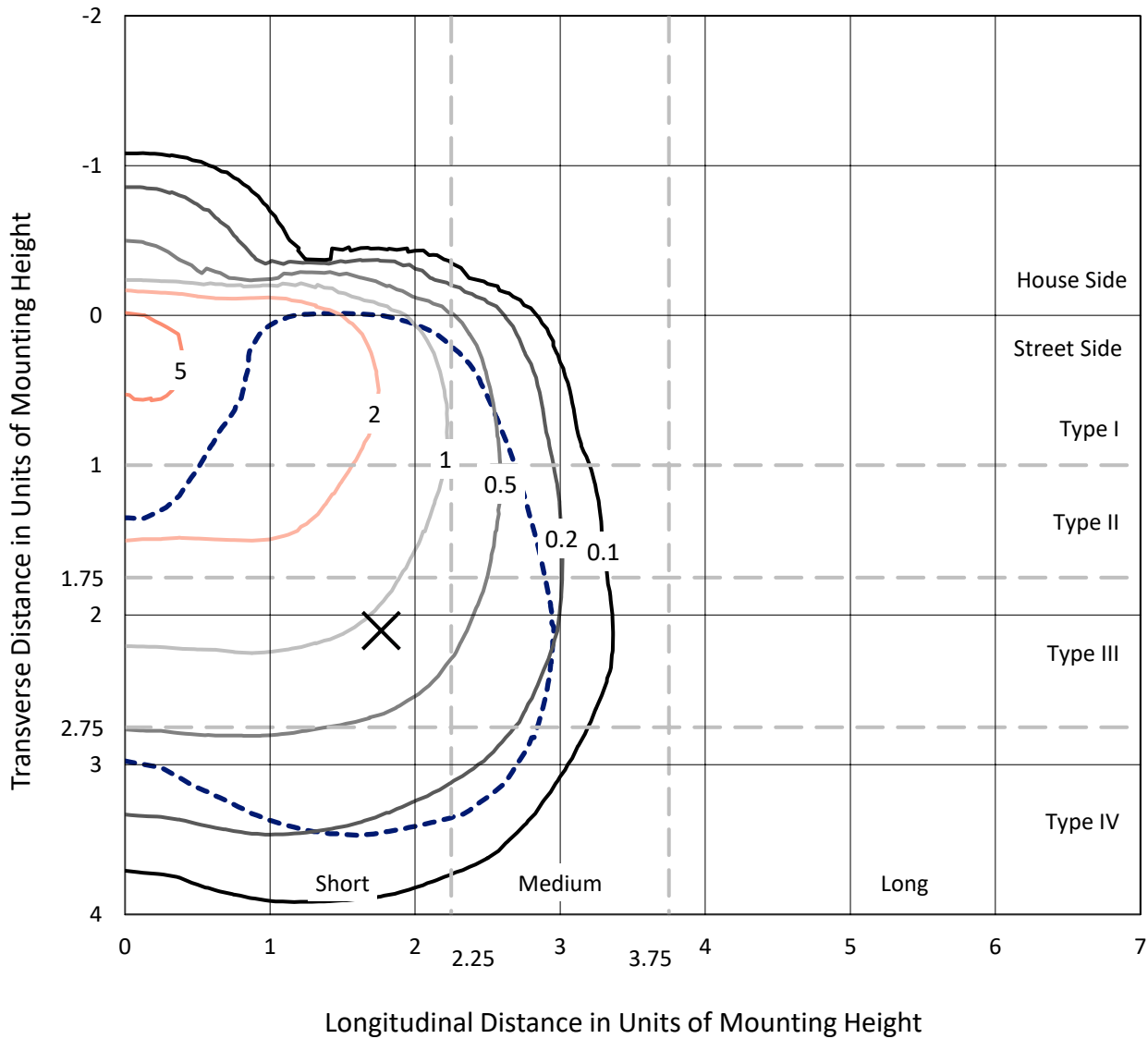
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

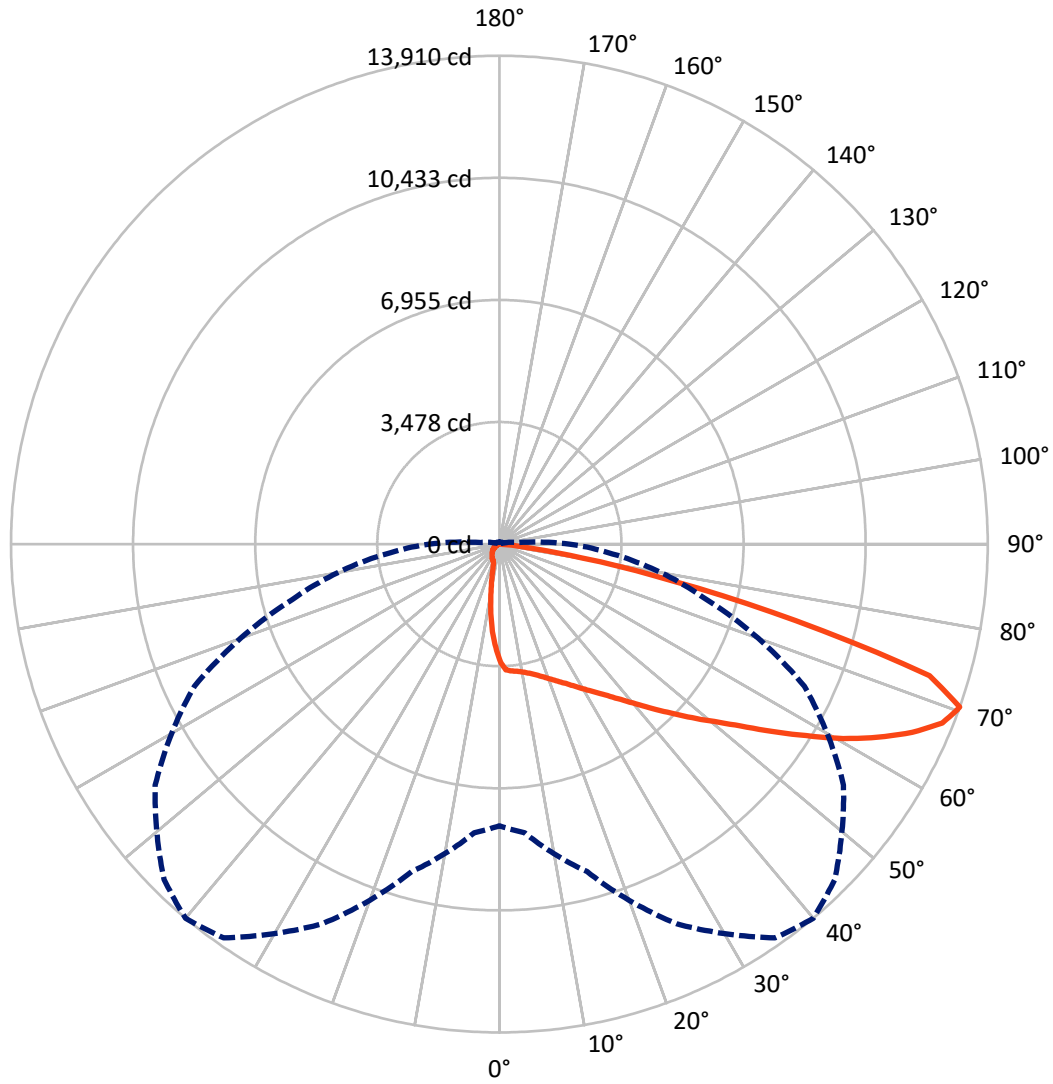
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1614.8	0.0	1614.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	18132.2	0.0	18132.2
	% Fixture	91.8	0.0	91.8
Total	Lumens	19747.0	0.0	19747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	1.4
10°-20°	718.3	3.6
20°-30°	1202.2	6.1
30°-40°	1888.2	9.6
40°-50°	2986.7	15.1
50°-60°	4356.8	22.1
60°-70°	5400.8	27.4
70°-80°	2732.5	13.8
80°-90°	178.4	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°	19747.0	100.0
0°-180°	19747.0	100.0

Coefficient of Utilization



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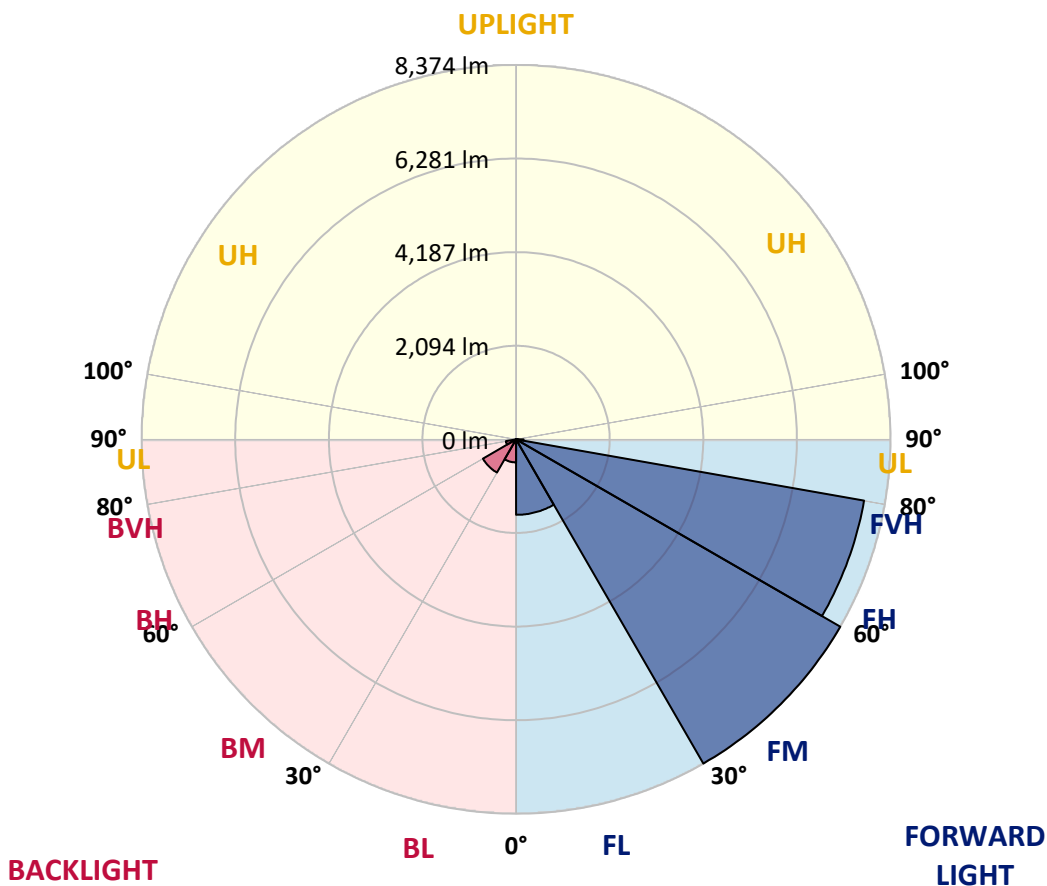
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.0	8.5			
FM (30°-60°)	8374.5	42.4			
FH (60°-80°)	7903.1	40.0			G4/12000
FVH (80°-90°)	166.6	0.8			G2/225
BL (0°-30°)	515.7	2.6	B2/1000		
BM (30°-60°)	857.1	4.3	B1/1000		
BH (60°-80°)	230.2	1.2	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8
2.5°	3602.4	3614.9	3613.1	3618.5	3606.0	3586.2	3582.6	3555.7	3507.1	3446.1	3377.8
5°	3676.0	3690.4	3679.6	3674.2	3650.9	3629.3	3623.9	3595.2	3539.5	3456.8	3338.3
7.5°	3738.9	3742.5	3735.3	3722.7	3688.6	3659.9	3640.1	3600.6	3534.1	3451.4	3314.9
10°	3749.7	3747.9	3751.5	3753.3	3731.7	3706.6	3690.4	3636.5	3552.1	3464.0	3316.7
12.5°	3737.1	3737.1	3760.5	3787.4	3787.4	3774.8	3758.7	3710.2	3611.3	3507.1	3352.6
15°	3753.3	3758.7	3803.6	3853.9	3870.1	3857.5	3850.3	3800.0	3697.6	3582.6	3417.3
17.5°	3810.8	3816.2	3888.0	3963.5	3983.3	3968.9	3954.5	3904.2	3794.6	3668.8	3491.0
20°	3895.2	3909.6	4001.2	4098.3	4116.2	4098.3	4069.5	3999.4	3889.8	3762.3	3561.0
22.5°	4049.7	4058.7	4157.5	4260.0	4268.9	4240.2	4197.1	4100.0	3985.1	3861.1	3640.1
25°	4254.6	4267.1	4366.0	4464.8	4441.4	4398.3	4339.0	4229.4	4098.3	3977.9	3740.7
27.5°	4498.9	4513.3	4610.3	4696.6	4635.5	4585.2	4518.7	4382.1	4249.2	4139.6	3870.1
30°	4763.0	4775.6	4861.8	4939.1	4858.3	4799.0	4719.9	4579.8	4445.0	4362.4	4053.3
32.5°	5018.2	5016.4	5099.0	5161.9	5079.2	5032.5	4960.7	4818.7	4710.9	4675.0	4326.4
35°	5255.3	5255.3	5323.6	5386.5	5327.2	5302.0	5235.6	5122.4	5061.3	5104.4	4691.2
37.5°	5494.3	5481.7	5546.4	5616.5	5611.1	5612.9	5575.1	5521.2	5524.8	5677.5	5192.4
40°	5691.9	5686.5	5762.0	5853.6	5925.5	5983.0	5959.6	5979.4	6092.6	6378.3	5833.9
42.5°	5850.0	5862.6	5959.6	6105.2	6286.6	6403.4	6419.6	6500.4	6791.5	7233.5	6557.9
45°	6031.5	6033.3	6168.0	6390.8	6680.1	6865.2	6929.8	7138.3	7551.5	8121.0	7352.1
47.5°	6254.3	6232.7	6383.6	6696.3	7114.9	7388.0	7503.0	7763.5	8403.1	8987.0	7998.9
50°	6500.4	6460.9	6631.6	7057.4	7601.8	7943.2	8176.7	8557.6	9247.6	9698.5	8480.4
52.5°	6786.1	6748.4	6942.4	7472.4	8185.7	8600.8	8900.8	9285.3	9971.6	10241.1	8767.9
55°	7149.0	7111.3	7316.1	7970.1	8875.7	9414.7	9729.1	10052.5	10645.4	10641.8	8976.3
57.5°	7551.5	7499.4	7783.3	8599.0	9736.3	10296.8	10616.6	10774.8	11157.5	10952.6	9116.4
60°	8013.2	7966.5	8360.0	9348.2	10729.8	11249.1	11450.3	11385.6	11577.9	11135.9	9067.9
62.5°	8430.1	8408.5	8897.2	10142.3	11676.7	12115.1	12170.8	11888.7	11886.9	11139.5	8740.9
65°	8863.1	8904.4	9630.3	11056.8	12628.9	12923.6	12828.4	12388.2	12010.9	10699.3	7774.3
67.5°	9024.8	9145.2	10113.6	11883.3	13380.0	13609.9	13442.8	12637.9	11495.2	9218.8	5920.1
70°	8025.8	8252.2	9657.2	11930.0	13690.8	13910.0	13509.3	11966.0	9583.6	6107.0	3243.0
72.5°	6103.4	6367.5	8047.4	9768.6	12312.7	12812.2	12127.7	9748.8	6177.0	2675.3	1088.8
75°	3415.5	3701.2	5993.8	7355.7	8266.6	8722.9	8471.4	6254.3	2736.4	698.9	325.2
77.5°	1155.3	1250.5	2788.5	4551.0	5456.6	5046.9	4272.5	3106.5	1006.1	265.9	172.5
80°	684.5	720.5	1038.5	2265.6	2871.1	2380.6	1879.3	1148.1	512.1	141.9	120.4
82.5°	204.8	242.6	573.1	840.9	1124.7	700.7	592.9	655.8	265.9	77.3	100.6
85°	0.0	0.0	122.2	260.5	294.7	115.0	115.0	371.9	48.5	32.3	73.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.0	5.4	7.2	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°	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8	3350.8
2.5°	3329.3	3266.4	3192.7	3122.6	3056.2	2969.9	2928.6	2878.3	2835.2	2811.8	2824.4
5°	3262.8	3164.0	3013.1	2860.3	2705.8	2560.3	2429.1	2341.1	2262.0	2220.7	2229.7
7.5°	3205.3	3072.3	2837.0	2587.2	2339.3	2089.6	1886.5	1728.4	1606.2	1555.9	1547.0
10°	3180.1	3013.1	2680.7	2321.3	1940.4	1604.4	1317.0	1142.7	1018.7	957.6	968.4
12.5°	3192.7	2982.5	2547.7	2060.8	1566.7	1175.0	900.1	736.6	648.6	612.7	603.7
15°	3228.7	2975.3	2429.1	1794.9	1209.2	821.1	621.7	555.2	537.2	533.6	533.6
17.5°	3270.0	2977.1	2307.0	1525.4	918.1	609.1	531.8	519.2	513.9	510.3	512.1
20°	3311.3	2977.1	2166.8	1252.3	689.9	526.4	506.7	497.7	492.3	490.5	490.5
22.5°	3361.6	2977.1	2010.5	999.0	553.4	499.5	483.3	477.9	472.5	470.7	468.9
25°	3422.7	2978.9	1838.0	781.6	503.1	476.1	463.5	458.2	452.8	449.2	449.2
27.5°	3510.7	2993.3	1647.6	609.1	474.3	454.6	443.8	438.4	433.0	427.6	427.6
30°	3638.3	3029.2	1433.8	503.1	447.4	431.2	420.4	416.8	411.4	406.1	404.3
32.5°	3828.7	3092.1	1212.8	451.0	422.2	406.1	393.5	389.9	384.5	379.1	377.3
35°	4094.7	3207.1	997.2	418.6	389.9	373.7	366.5	364.7	357.5	352.2	352.2
37.5°	4484.5	3393.9	790.5	386.3	362.9	350.4	341.4	337.8	330.6	325.2	323.4
40°	4960.7	3636.5	614.5	361.1	337.8	325.2	316.2	310.8	301.8	294.7	291.1
42.5°	5567.9	3933.0	485.1	334.2	314.4	301.8	294.7	283.9	271.3	260.5	258.7
45°	6200.4	4238.4	400.7	309.0	292.9	282.1	273.1	258.7	240.8	228.2	224.6
47.5°	6685.5	4428.8	350.4	282.1	269.5	260.5	249.7	231.8	210.2	195.8	192.2
50°	7032.2	4457.6	312.6	256.9	249.7	240.8	224.6	203.0	179.7	165.3	161.7
52.5°	7202.9	4328.2	282.1	233.6	228.2	219.2	199.4	176.1	150.9	136.5	133.0
55°	7280.2	4083.9	253.3	213.8	206.6	195.8	174.3	149.1	124.0	111.4	107.8
57.5°	7249.6	3722.7	228.2	194.0	185.1	172.5	149.1	122.2	102.4	89.8	88.0
60°	7023.3	3216.1	203.0	174.3	163.5	149.1	125.8	100.6	82.6	73.7	71.9
62.5°	6534.6	2587.2	177.9	150.9	143.7	129.4	107.8	82.6	68.3	62.9	61.1
65°	5533.8	1829.0	152.7	127.6	124.0	109.6	89.8	68.3	59.3	55.7	53.9
67.5°	3977.9	1112.2	129.4	109.6	106.0	93.4	75.5	59.3	53.9	52.1	52.1
70°	1999.7	526.4	102.4	89.8	89.8	77.3	64.7	53.9	52.1	50.3	50.3
72.5°	679.1	224.6	77.3	70.1	73.7	66.5	55.7	50.3	50.3	50.3	50.3
75°	231.8	118.6	53.9	50.3	53.9	53.9	48.5	48.5	50.3	50.3	50.3
77.5°	150.9	79.1	37.7	34.1	41.3	41.3	41.3	44.9	48.5	48.5	48.5
80°	124.0	43.1	25.2	23.4	30.5	30.5	34.1	41.3	44.9	44.9	44.9
82.5°	106.0	27.0	14.4	16.2	21.6	23.4	28.7	34.1	39.5	41.3	41.3
85°	71.9	14.4	10.8	12.6	14.4	18.0	23.4	28.7	32.3	35.9	35.9
87.5°	19.8	5.4	7.2	9.0	9.0	12.6	18.0	21.6	25.2	27.0	27.0
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)