

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: P641197

Luminaire Tested: GWS-SA5F-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641197
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-SA5F-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32226 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

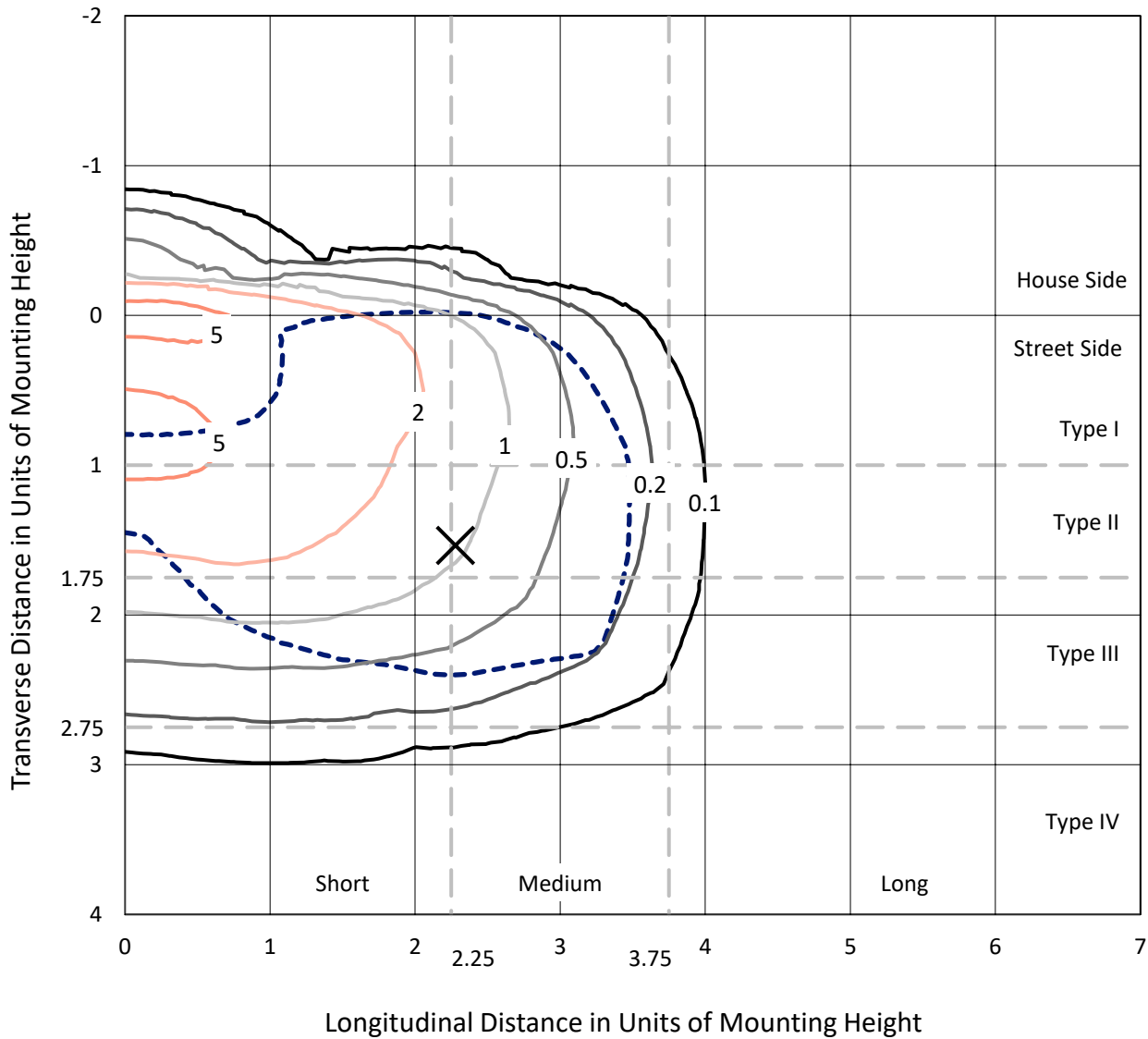
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

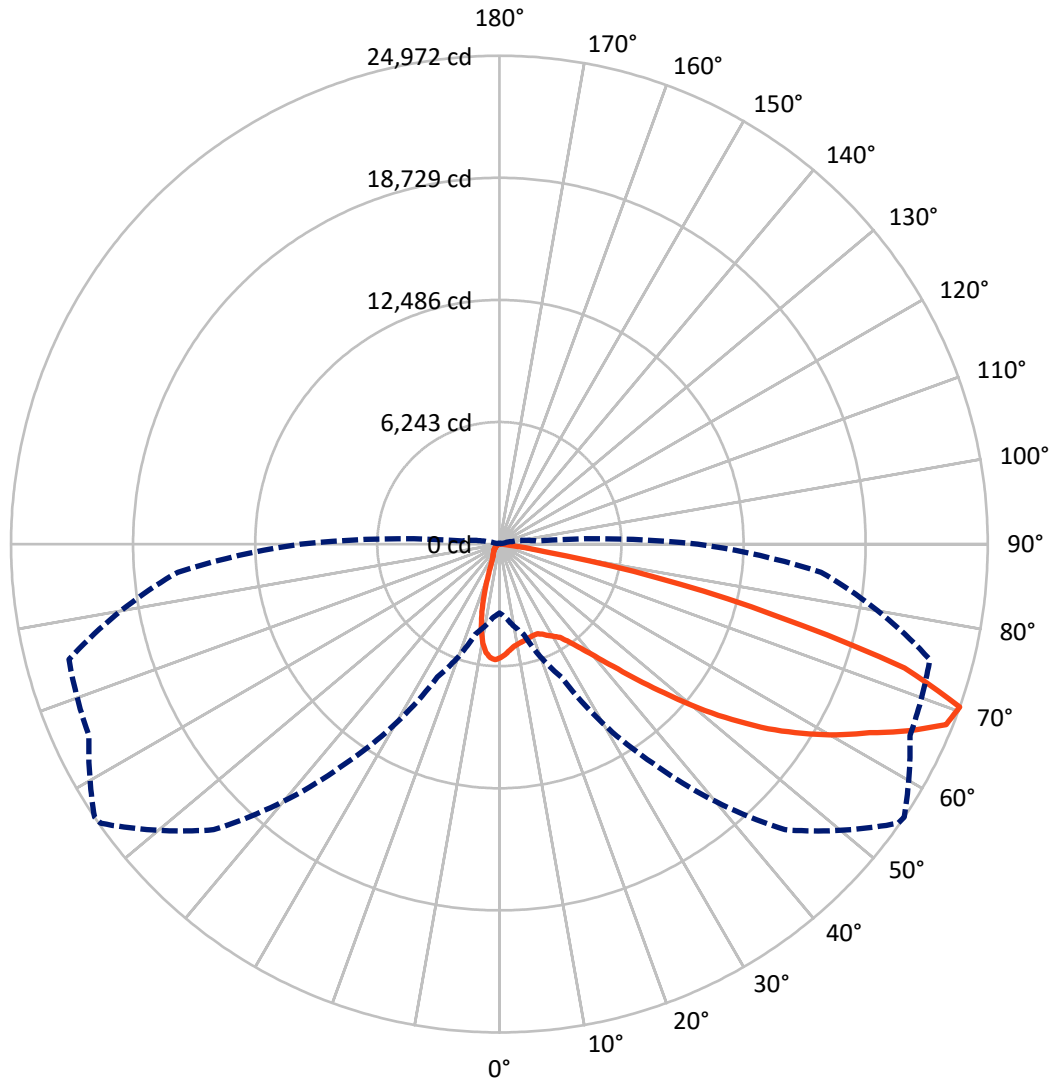
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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	2894.5	0.0	2894.5
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	29331.5	0.0	29331.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	32226.0	0.0	32226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.9	1.5
10°-20°	1122.1	3.5
20°-30°	1777.4	5.5
30°-40°	3065.1	9.5
40°-50°	5175.9	16.1
50°-60°	7605.0	23.6
60°-70°	9016.2	28.0
70°-80°	3844.9	11.9
80°-90°	120.7	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°	32226.0	100.0
0°-180°	32226.0	100.0

Coefficient of Utilization



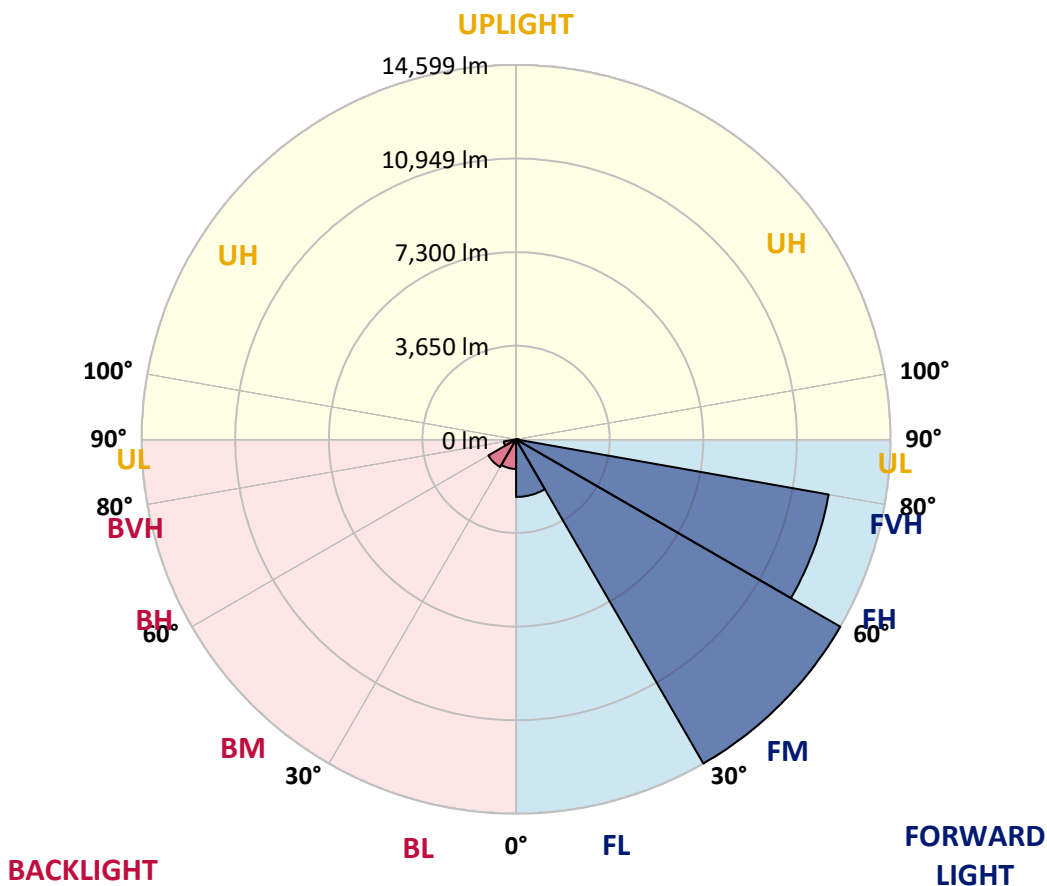
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2245.6	7.0			
FM (30°-60°)	14599.2	45.3			
FH (60°-80°)	12378.2	38.4			G5
FVH (80°-90°)	108.5	0.3			G2/225
BL (0°-30°)	1152.8	3.6	B3/2500		
BM (30°-60°)	1246.7	3.9	B2/2500		
BH (60°-80°)	482.8	1.5	B1/500		G1/500
BVH (80°-90°)	12.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7
2.5°	5409.3	5400.5	5406.4	5450.6	5533.3	5571.6	5636.6	5648.4	5701.5	5769.4	5795.9
5°	5058.1	5028.6	5043.4	5105.4	5199.8	5306.0	5427.0	5459.5	5592.3	5742.8	5854.9
7.5°	4736.5	4704.0	4739.4	4836.8	4969.6	5084.7	5264.7	5285.4	5497.9	5763.5	5967.1
10°	4231.8	4240.7	4311.5	4482.7	4686.3	4925.3	5167.3	5196.8	5459.5	5831.3	6147.1
12.5°	3845.3	3824.6	3901.3	4096.1	4382.4	4730.6	5093.6	5131.9	5462.4	5934.6	6377.3
15°	3665.2	3659.3	3691.8	3833.4	4110.9	4521.1	5025.7	5075.9	5500.8	6029.1	6595.7
17.5°	3671.1	3662.3	3659.3	3742.0	3948.5	4364.6	4951.9	5016.8	5533.3	6132.3	6825.8
20°	3927.9	3886.6	3812.8	3774.4	3898.4	4264.3	4901.7	4975.5	5580.5	6241.5	7070.8
22.5°	4465.0	4479.7	4282.0	4075.4	4016.4	4276.1	4895.8	4981.4	5683.8	6412.7	7371.8
25°	5539.2	5515.6	5149.6	4686.3	4364.6	4411.9	4999.1	5102.4	5887.4	6657.6	7655.1
27.5°	6884.9	6905.5	6403.8	5666.1	4993.2	4692.2	5188.0	5291.3	6123.5	6811.1	7844.0
30°	8351.5	8330.9	7793.8	6976.3	5884.4	5158.5	5376.9	5468.3	6241.5	6893.7	8038.7
32.5°	9738.6	9691.3	9160.1	8304.3	7020.6	5893.3	5636.6	5689.7	6397.9	7073.7	8301.4
35°	10921.9	10919.0	10455.7	9543.8	8189.2	6814.0	6082.2	6126.4	6690.1	7360.0	8688.0
37.5°	12143.7	12102.4	11583.0	10750.8	9390.3	7823.3	6763.9	6746.2	7150.5	7782.0	9163.1
40°	13147.1	13120.5	12722.1	11922.4	10638.6	8938.8	7590.2	7537.1	7696.4	8366.3	9824.1
42.5°	13890.7	13893.7	13769.7	13282.8	11960.7	10228.4	8629.0	8546.3	8543.4	9248.7	10697.7
45°	14454.4	14492.7	14678.7	14604.9	13521.8	11730.5	9959.9	9874.3	9729.7	10393.7	11698.1
47.5°	14717.0	14767.2	15327.9	15623.0	14888.2	13220.8	11544.6	11364.6	11081.3	11916.5	12816.5
50°	14690.5	14779.0	15561.0	16458.2	16127.6	14731.8	13271.0	13185.4	12722.1	13527.7	13923.2
52.5°	14088.4	14277.3	15575.8	16965.7	17080.8	16124.7	15056.4	14897.0	14672.8	15209.9	14962.0
55°	12453.5	12683.7	14953.1	17128.1	17824.5	17340.5	16803.4	16673.6	16301.8	16797.5	15867.9
57.5°	11565.3	11763.0	13642.8	17048.4	18456.0	18464.9	18358.7	18252.4	17945.5	18367.5	16930.3
60°	11031.1	11228.9	12943.4	16756.2	19028.5	19651.2	19819.4	19807.6	19365.0	20152.9	18175.7
62.5°	10249.1	10520.6	12214.5	15997.8	19435.8	20819.9	21327.4	21247.8	20754.9	22012.1	19409.2
65°	8670.3	8906.4	10721.3	14746.5	19196.8	21787.8	22962.3	23003.7	22434.1	23762.1	20383.1
67.5°	6079.2	6253.3	8056.4	12120.1	17573.7	22106.5	24635.6	24632.6	23661.7	24659.2	19952.2
70°	3523.6	3762.6	4760.1	7492.8	13672.3	20657.5	24886.4	24972.0	23163.0	22785.3	16511.3
72.5°	1363.4	1561.1	2697.3	3981.0	7129.8	15823.7	21407.1	21658.0	19385.6	17576.6	11491.5
75°	407.2	454.5	1269.0	2118.9	2862.5	7643.3	14492.7	14563.6	13297.6	10963.3	5890.4
77.5°	304.0	336.4	554.8	1071.2	1003.4	2316.6	7498.7	8189.2	7059.0	3916.1	1623.1
80°	206.6	244.9	395.4	522.3	371.8	616.8	2107.1	2313.6	2154.3	879.4	407.2
82.5°	91.5	118.0	280.4	262.6	135.7	177.1	649.2	690.6	445.6	265.6	141.7
85°	8.9	11.8	106.2	115.1	50.2	41.3	135.7	135.7	97.4	91.5	59.0
87.5°	0.0	0.0	3.0	5.9	5.9	8.9	11.8	14.8	17.7	23.6	29.5
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°	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7	5810.7
2.5°	5863.8	5828.4	5872.6	5908.1	5916.9	5852.0	5813.6	5757.6	5745.7	5748.7	5733.9
5°	5943.5	5925.8	5958.2	5919.9	5819.5	5630.7	5468.3	5288.3	5190.9	5134.9	5129.0
7.5°	6091.0	6082.2	6046.8	5872.6	5559.8	5140.8	4736.5	4341.0	4096.1	4007.6	3992.8
10°	6309.4	6291.7	6147.1	5733.9	5067.0	4261.4	3582.6	3016.0	2670.7	2570.4	2446.4
12.5°	6560.2	6524.8	6209.1	5435.9	4323.3	3207.8	2360.9	1726.4	1428.3	1339.8	1339.8
15°	6802.2	6725.5	6173.7	4943.1	3408.5	2086.4	1319.1	997.5	906.0	882.4	882.4
17.5°	7050.1	6902.6	6035.0	4270.2	2355.0	1233.6	879.4	817.4	805.6	808.6	811.5
20°	7283.3	7053.1	5790.0	3461.6	1502.1	861.7	787.9	773.2	767.3	773.2	770.2
22.5°	7537.1	7191.8	5418.2	2579.2	976.8	776.1	749.6	737.8	731.9	740.7	740.7
25°	7787.9	7292.1	4925.3	1735.2	776.1	723.0	708.3	696.5	690.6	693.5	693.5
27.5°	7917.7	7253.7	4279.1	1106.7	696.5	669.9	655.1	640.4	631.5	628.6	631.5
30°	8006.3	7135.7	3488.2	787.9	631.5	599.1	584.3	572.5	548.9	534.1	540.0
32.5°	8145.0	7017.7	2629.4	661.0	578.4	528.2	504.6	475.1	442.7	427.9	427.9
35°	8310.2	6855.4	1844.4	596.1	522.3	469.2	425.0	374.8	336.4	324.6	324.6
37.5°	8528.6	6701.9	1227.6	551.9	475.1	419.1	357.1	298.1	256.7	250.8	247.9
40°	8856.2	6572.1	864.7	519.4	433.8	365.9	292.2	230.2	200.7	191.8	191.8
42.5°	9281.1	6439.3	684.7	486.9	398.4	315.8	233.1	183.0	159.4	153.5	150.5
45°	9806.4	6282.8	596.1	457.4	363.0	262.6	185.9	153.5	135.7	129.8	129.8
47.5°	10376.0	6070.4	554.8	419.1	321.7	212.5	156.4	132.8	123.9	121.0	118.0
50°	10936.7	5784.1	519.4	383.6	274.5	174.1	135.7	121.0	115.1	112.1	112.1
52.5°	11426.6	5450.6	475.1	342.3	224.3	150.5	121.0	112.1	106.2	100.3	97.4
55°	11845.6	5087.7	419.1	295.1	183.0	132.8	112.1	103.3	97.4	91.5	88.5
57.5°	12385.7	4881.1	336.4	239.0	150.5	118.0	103.3	94.4	88.5	79.7	79.7
60°	12984.7	4730.6	250.8	188.9	129.8	109.2	94.4	85.6	79.7	70.8	70.8
62.5°	13465.8	4506.3	197.7	153.5	112.1	97.4	85.6	76.7	70.8	62.0	62.0
65°	13648.7	4043.0	162.3	121.0	91.5	85.6	76.7	70.8	62.0	53.1	53.1
67.5°	12822.4	3116.3	135.7	97.4	76.7	73.8	67.9	64.9	53.1	47.2	44.3
70°	10154.7	1900.5	112.1	79.7	64.9	62.0	62.0	56.1	47.2	44.3	41.3
72.5°	6958.6	979.8	91.5	64.9	56.1	56.1	53.1	50.2	44.3	41.3	41.3
75°	3615.1	327.6	70.8	50.2	44.3	47.2	47.2	44.3	41.3	41.3	38.4
77.5°	1035.8	147.6	53.1	38.4	35.4	35.4	38.4	38.4	38.4	35.4	35.4
80°	268.5	85.6	38.4	29.5	29.5	29.5	29.5	32.5	35.4	32.5	32.5
82.5°	109.2	47.2	26.6	23.6	23.6	23.6	23.6	26.6	29.5	29.5	29.5
85°	67.9	23.6	20.7	20.7	20.7	17.7	17.7	20.7	20.7	23.6	23.6
87.5°	41.3	17.7	17.7	17.7	17.7	14.8	14.8	14.8	14.8	14.8	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

(END OF REPORT)