

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: P642187

Luminaire Tested: GWS-SA6C-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642187
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-SA6C-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21923.4 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

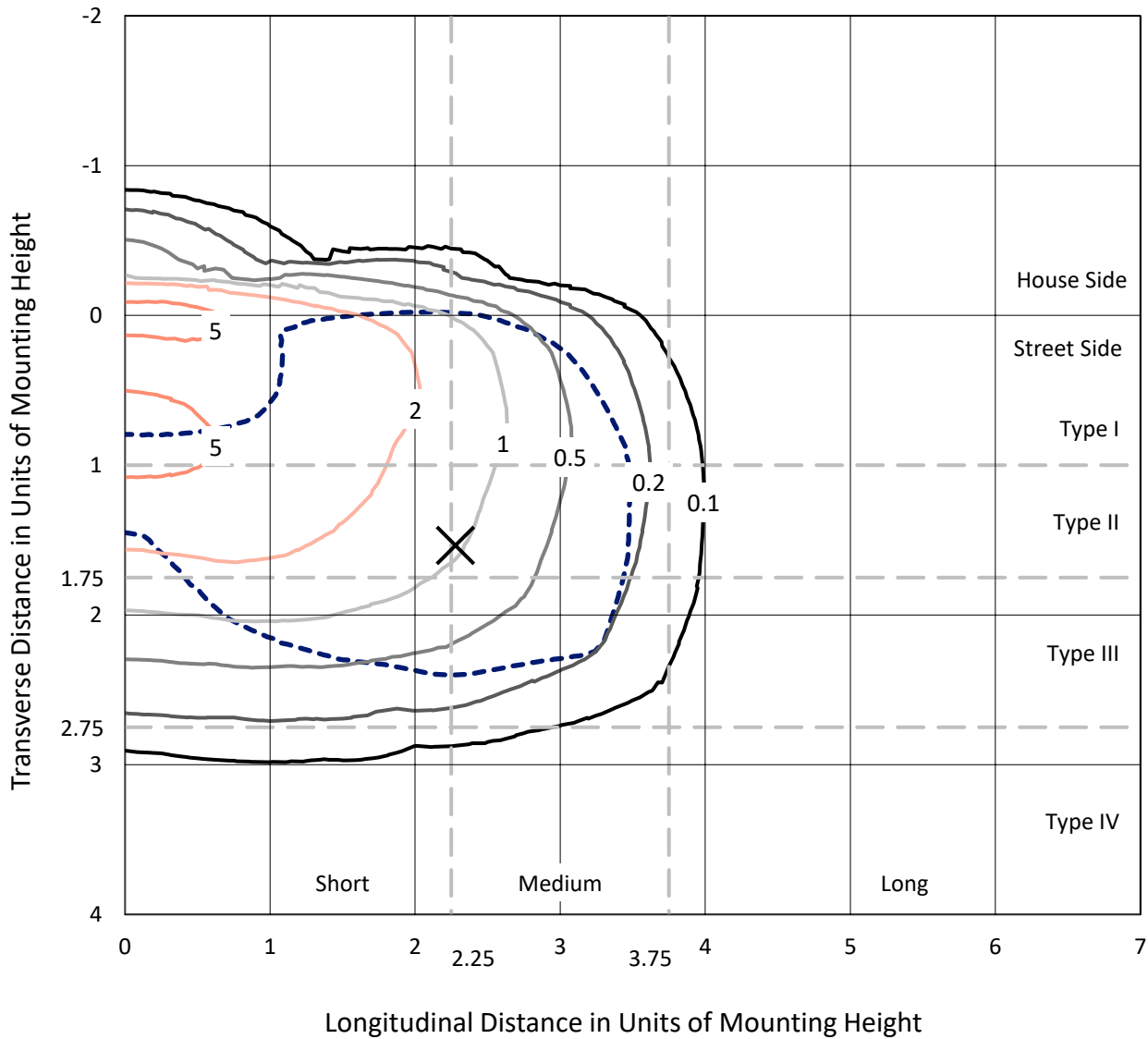
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

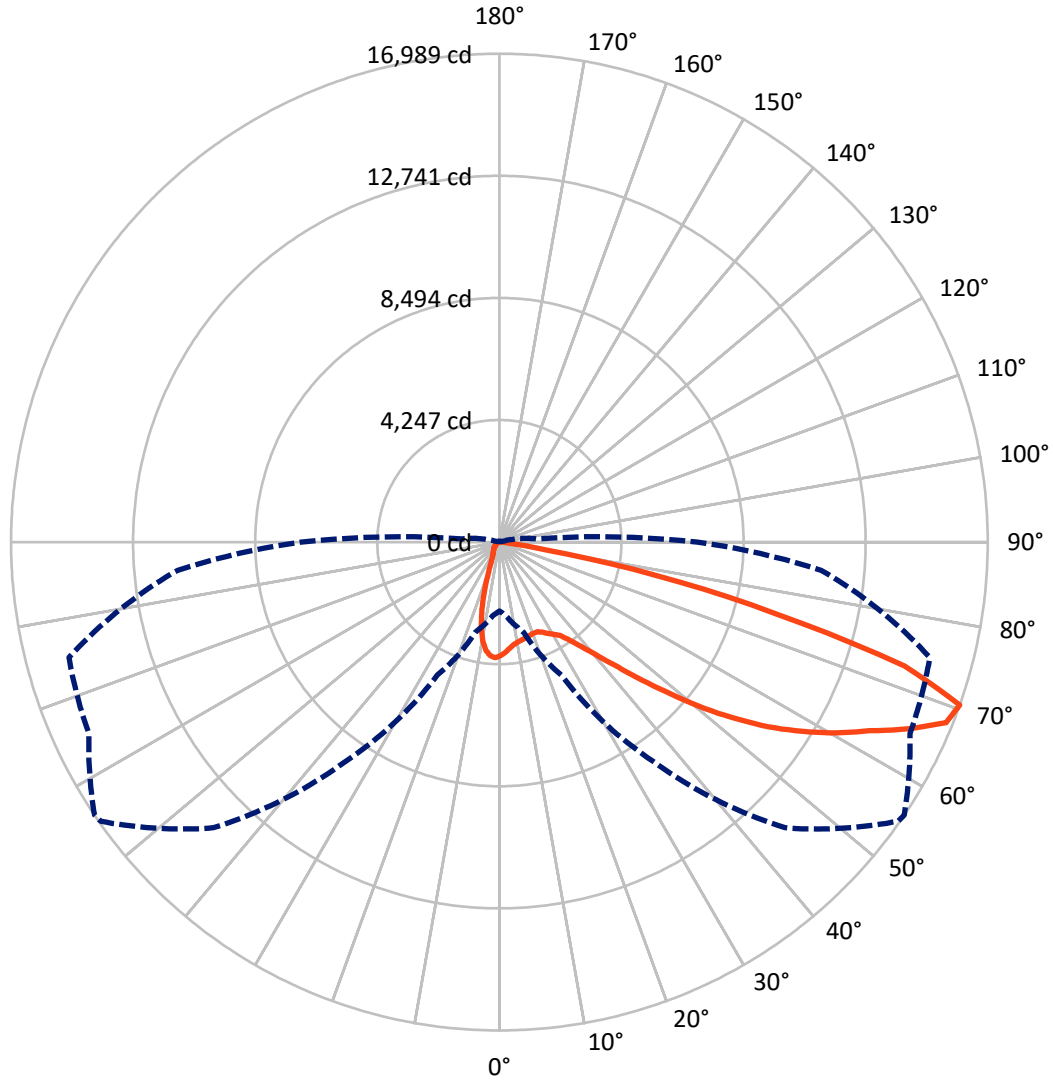
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	1969.1	0.0	1969.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	19954.3	0.0	19954.3
	% Fixture	91.0	0.0	91.0
Total	Lumens	21923.4	0.0	21923.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	1.5
10°-20°	763.3	3.5
20°-30°	1209.1	5.5
30°-40°	2085.2	9.5
40°-50°	3521.1	16.1
50°-60°	5173.7	23.6
60°-70°	6133.7	28.0
70°-80°	2615.7	11.9
80°-90°	82.1	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°	21923.4	100.0
0°-180°	21923.4	100.0

Coefficient of Utilization



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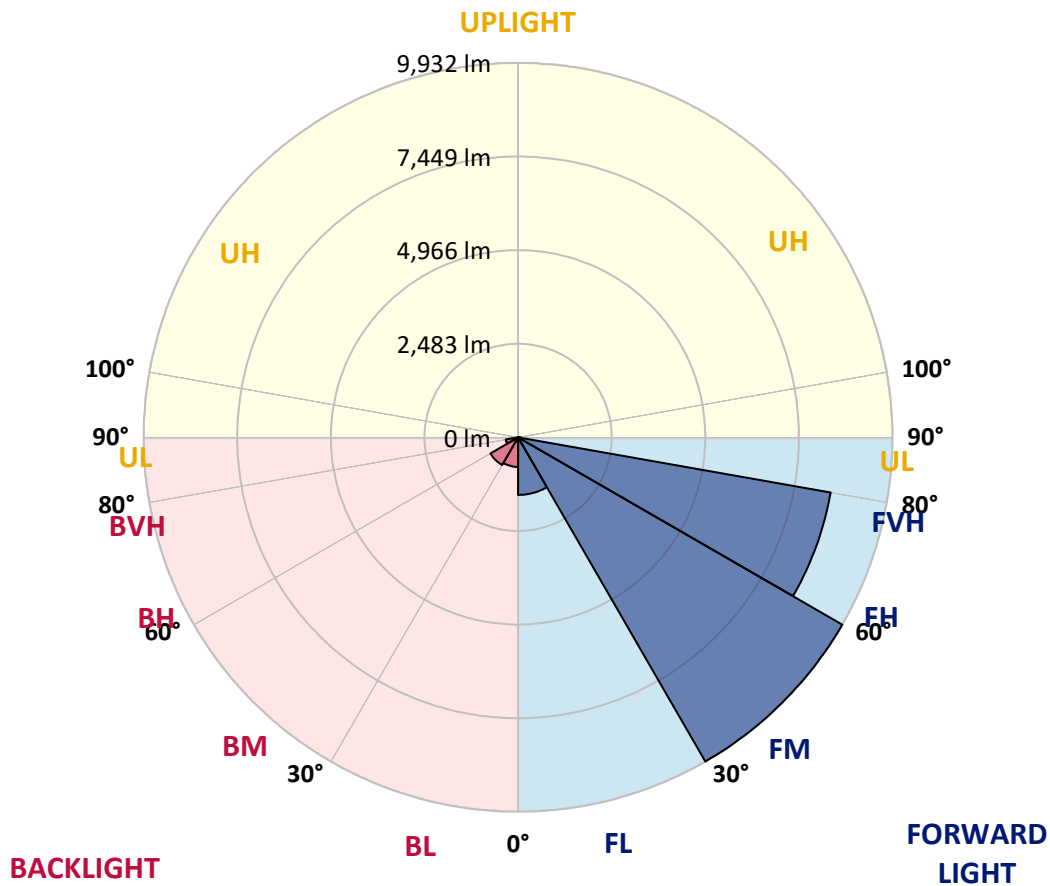
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.7	7.0			
FM (30°-60°)	9931.9	45.3			
FH (60°-80°)	8420.9	38.4			G4/12000
FVH (80°-90°)	73.8	0.3			G1/100
BL (0°-30°)	784.2	3.6	B2/1000		
BM (30°-60°)	848.1	3.9	B1/1000		
BH (60°-80°)	328.4	1.5	B1/500		G1/500
BVH (80°-90°)	8.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0
2.5°	3680.0	3674.0	3678.0	3708.1	3764.3	3790.4	3834.6	3842.6	3878.7	3924.9	3943.0
5°	3441.1	3421.0	3431.0	3473.2	3537.4	3609.7	3692.0	3714.1	3804.4	3906.8	3983.1
7.5°	3222.2	3200.2	3224.2	3290.5	3380.8	3459.1	3581.6	3595.7	3740.2	3920.9	4059.4
10°	2878.9	2885.0	2933.1	3049.6	3188.1	3350.7	3515.3	3535.4	3714.1	3967.1	4181.9
12.5°	2615.9	2601.9	2654.1	2786.6	2981.3	3218.2	3465.2	3491.3	3716.1	4037.3	4338.5
15°	2493.5	2489.5	2511.5	2607.9	2796.6	3075.7	3419.0	3453.1	3742.2	4101.6	4487.0
17.5°	2497.5	2491.5	2489.5	2545.7	2686.2	2969.3	3368.8	3413.0	3764.3	4171.8	4643.6
20°	2672.1	2644.0	2593.8	2567.7	2652.1	2901.0	3334.7	3384.9	3796.4	4246.1	4810.3
22.5°	3037.5	3047.6	2913.1	2772.5	2732.4	2909.0	3330.6	3388.9	3866.7	4362.6	5015.0
25°	3768.3	3752.2	3503.3	3188.1	2969.3	3001.4	3400.9	3471.2	4005.2	4529.2	5207.8
27.5°	4683.8	4697.8	4356.5	3854.6	3396.9	3192.1	3529.4	3599.7	4165.8	4633.6	5336.3
30°	5681.6	5667.5	5302.1	4746.0	4003.2	3509.3	3657.9	3720.1	4246.1	4689.8	5468.8
32.5°	6625.2	6593.0	6231.7	5649.5	4776.1	4009.2	3834.6	3870.7	4352.5	4812.3	5647.4
35°	7430.2	7428.2	7113.0	6492.7	5571.2	4635.6	4137.7	4167.8	4551.3	5007.0	5910.4
37.5°	8261.4	8233.3	7879.9	7313.8	6388.3	5322.2	4601.5	4589.4	4864.5	5294.1	6233.7
40°	8944.0	8925.9	8654.9	8110.8	7237.5	6081.1	5163.6	5127.5	5235.9	5691.6	6683.4
42.5°	9449.9	9451.9	9367.6	9036.3	8136.9	6958.4	5870.3	5814.1	5812.1	6291.9	7277.6
45°	9833.3	9859.4	9985.9	9935.7	9198.9	7980.3	6775.7	6717.5	6619.1	7070.8	7958.2
47.5°	10012.0	10046.1	10427.6	10628.4	10128.5	8994.2	7853.8	7731.4	7538.6	8106.8	8719.1
50°	9993.9	10054.2	10586.2	11196.5	10971.7	10022.1	9028.3	8970.1	8654.9	9202.9	9472.0
52.5°	9584.4	9712.9	10596.2	11541.8	11620.1	10969.7	10242.9	10134.5	9981.9	10347.3	10178.6
55°	8472.2	8628.8	10172.6	11652.2	12126.0	11796.8	11431.4	11343.1	11090.1	11427.4	10795.0
57.5°	7867.9	8002.4	9281.2	11598.0	12555.7	12561.7	12489.4	12417.1	12208.4	12495.4	11517.7
60°	7504.5	7639.0	8805.4	11399.3	12945.2	13368.8	13483.2	13475.2	13174.0	13710.1	12364.9
62.5°	6972.5	7157.2	8309.6	10883.3	13222.2	14163.8	14509.1	14454.9	14119.6	14974.9	13204.1
65°	5898.4	6059.0	7293.7	10032.1	13059.6	14822.3	15621.3	15649.4	15261.9	16165.4	13866.7
67.5°	4135.7	4254.2	5480.8	8245.3	11955.4	15039.1	16759.6	16757.6	16097.1	16775.7	13573.5
70°	2397.1	2559.7	3238.3	5097.4	9301.3	14053.4	16930.3	16988.5	15757.8	15500.9	11232.7
72.5°	927.5	1062.0	1835.0	2708.3	4850.4	10764.9	14563.3	14733.9	13188.1	11957.4	7817.7
75°	277.1	309.2	863.3	1441.5	1947.4	5199.7	9859.4	9907.6	9046.3	7458.3	4007.2
77.5°	206.8	228.9	377.4	728.8	682.6	1576.0	5101.4	5571.2	4802.2	2664.1	1104.2
80°	140.5	166.6	269.0	355.3	253.0	419.6	1433.4	1574.0	1465.6	598.3	277.1
82.5°	62.2	80.3	190.7	178.7	92.4	120.5	441.7	469.8	303.2	180.7	96.4
85°	6.0	8.0	72.3	78.3	34.1	28.1	92.4	92.4	66.3	62.2	40.2
87.5°	0.0	0.0	2.0	4.0	4.0	6.0	8.0	10.0	12.0	16.1	20.1
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°	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0	3953.0
2.5°	3989.1	3965.1	3995.2	4019.3	4025.3	3981.1	3955.0	3916.9	3908.8	3910.8	3900.8
5°	4043.4	4031.3	4053.4	4027.3	3959.0	3830.5	3720.1	3597.7	3531.4	3493.3	3489.2
7.5°	4143.7	4137.7	4113.6	3995.2	3782.4	3497.3	3222.2	2953.2	2786.6	2726.4	2716.3
10°	4292.3	4280.3	4181.9	3900.8	3447.1	2899.0	2437.3	2051.8	1816.9	1748.6	1664.3
12.5°	4462.9	4438.9	4224.0	3698.0	2941.2	2182.3	1606.1	1174.5	971.7	911.5	911.5
15°	4627.6	4575.4	4199.9	3362.8	2318.8	1419.4	897.4	678.6	616.3	600.3	600.3
17.5°	4796.2	4695.8	4105.6	2905.0	1602.1	839.2	598.3	556.1	548.1	550.1	552.1
20°	4954.8	4798.2	3939.0	2354.9	1021.9	586.2	536.0	526.0	522.0	526.0	524.0
22.5°	5127.5	4892.6	3686.0	1754.7	664.5	528.0	509.9	501.9	497.9	503.9	503.9
25°	5298.1	4960.8	3350.7	1180.5	528.0	491.9	481.8	473.8	469.8	471.8	471.8
27.5°	5386.5	4934.7	2911.1	752.9	473.8	455.7	445.7	435.7	429.6	427.6	429.6
30°	5446.7	4854.4	2373.0	536.0	429.6	407.5	397.5	389.5	373.4	363.4	367.4
32.5°	5541.0	4774.1	1788.8	449.7	393.5	359.4	343.3	323.2	301.1	291.1	291.1
35°	5653.5	4663.7	1254.8	405.5	355.3	319.2	289.1	255.0	228.9	220.8	220.8
37.5°	5802.0	4559.3	835.2	375.4	323.2	285.1	242.9	202.8	174.7	170.6	168.6
40°	6024.9	4471.0	588.2	353.3	295.1	248.9	198.8	156.6	136.5	130.5	130.5
42.5°	6314.0	4380.6	465.8	331.3	271.0	214.8	158.6	124.5	108.4	104.4	102.4
45°	6671.3	4274.2	405.5	311.2	246.9	178.7	126.5	104.4	92.4	88.3	88.3
47.5°	7058.8	4129.7	377.4	285.1	218.8	144.5	106.4	90.3	84.3	82.3	80.3
50°	7440.3	3934.9	353.3	261.0	186.7	118.4	92.4	82.3	78.3	76.3	76.3
52.5°	7773.5	3708.1	323.2	232.9	152.6	102.4	82.3	76.3	72.3	68.3	66.3
55°	8058.6	3461.1	285.1	200.8	124.5	90.3	76.3	70.3	66.3	62.2	60.2
57.5°	8426.0	3320.6	228.9	162.6	102.4	80.3	70.3	64.2	60.2	54.2	54.2
60°	8833.5	3218.2	170.6	128.5	88.3	74.3	64.2	58.2	54.2	48.2	48.2
62.5°	9160.8	3065.6	134.5	104.4	76.3	66.3	58.2	52.2	48.2	42.2	42.2
65°	9285.3	2750.4	110.4	82.3	62.2	58.2	52.2	48.2	42.2	36.1	36.1
67.5°	8723.1	2120.0	92.4	66.3	52.2	50.2	46.2	44.2	36.1	32.1	30.1
70°	6908.2	1292.9	76.3	54.2	44.2	42.2	42.2	38.1	32.1	30.1	28.1
72.5°	4734.0	666.5	62.2	44.2	38.1	38.1	36.1	34.1	30.1	28.1	28.1
75°	2459.3	222.8	48.2	34.1	30.1	32.1	32.1	30.1	28.1	28.1	26.1
77.5°	704.7	100.4	36.1	26.1	24.1	24.1	26.1	26.1	26.1	24.1	24.1
80°	182.7	58.2	26.1	20.1	20.1	20.1	20.1	22.1	24.1	22.1	22.1
82.5°	74.3	32.1	18.1	16.1	16.1	16.1	16.1	18.1	20.1	20.1	20.1
85°	46.2	16.1	14.1	14.1	14.1	12.0	12.0	14.1	14.1	16.1	16.1
87.5°	28.1	12.0	12.0	12.0	12.0	10.0	10.0	10.0	10.0	10.0	10.0
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)