

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: P633295

Luminaire Tested: GWS-SA2E-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14858.3 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

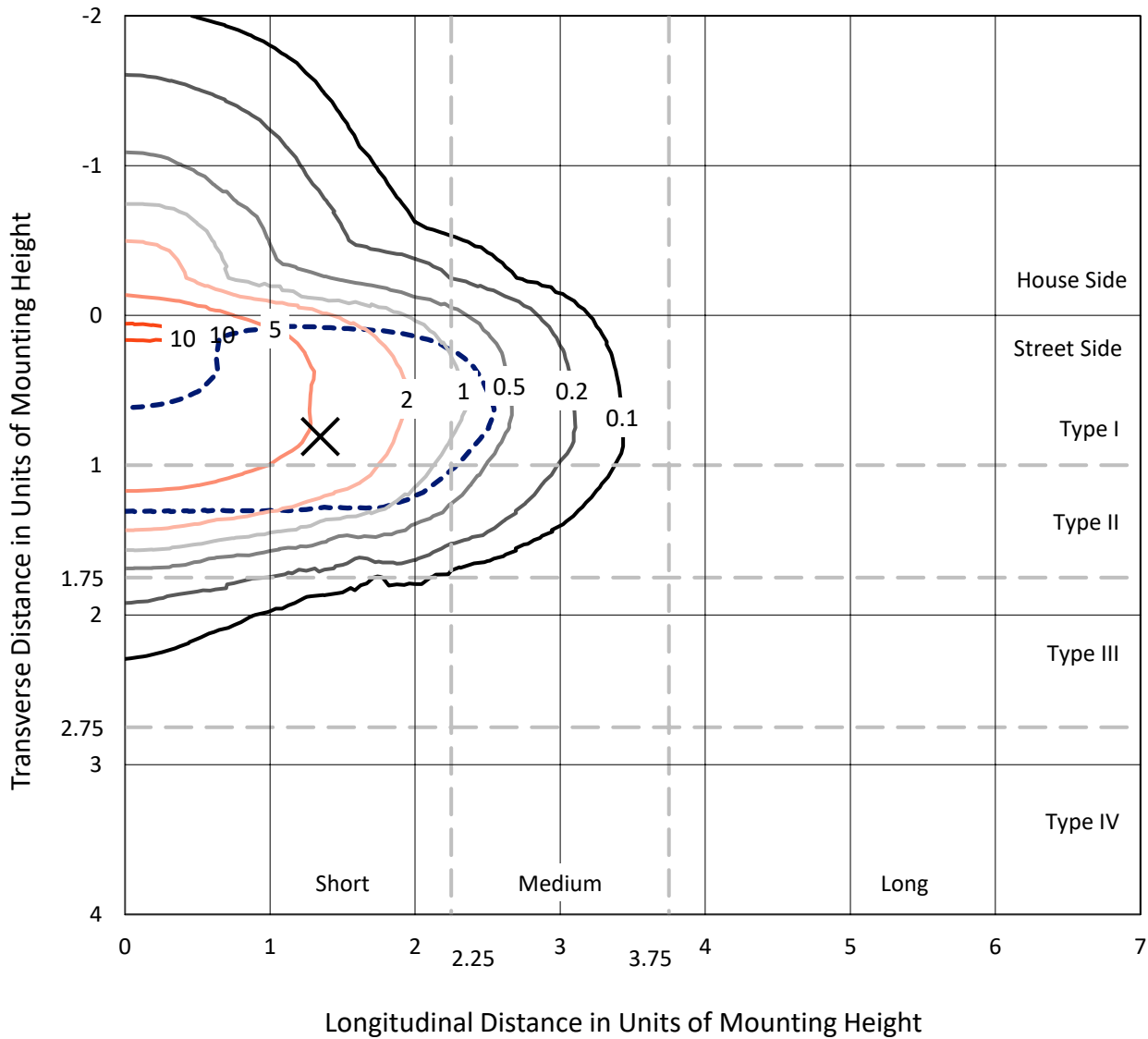
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

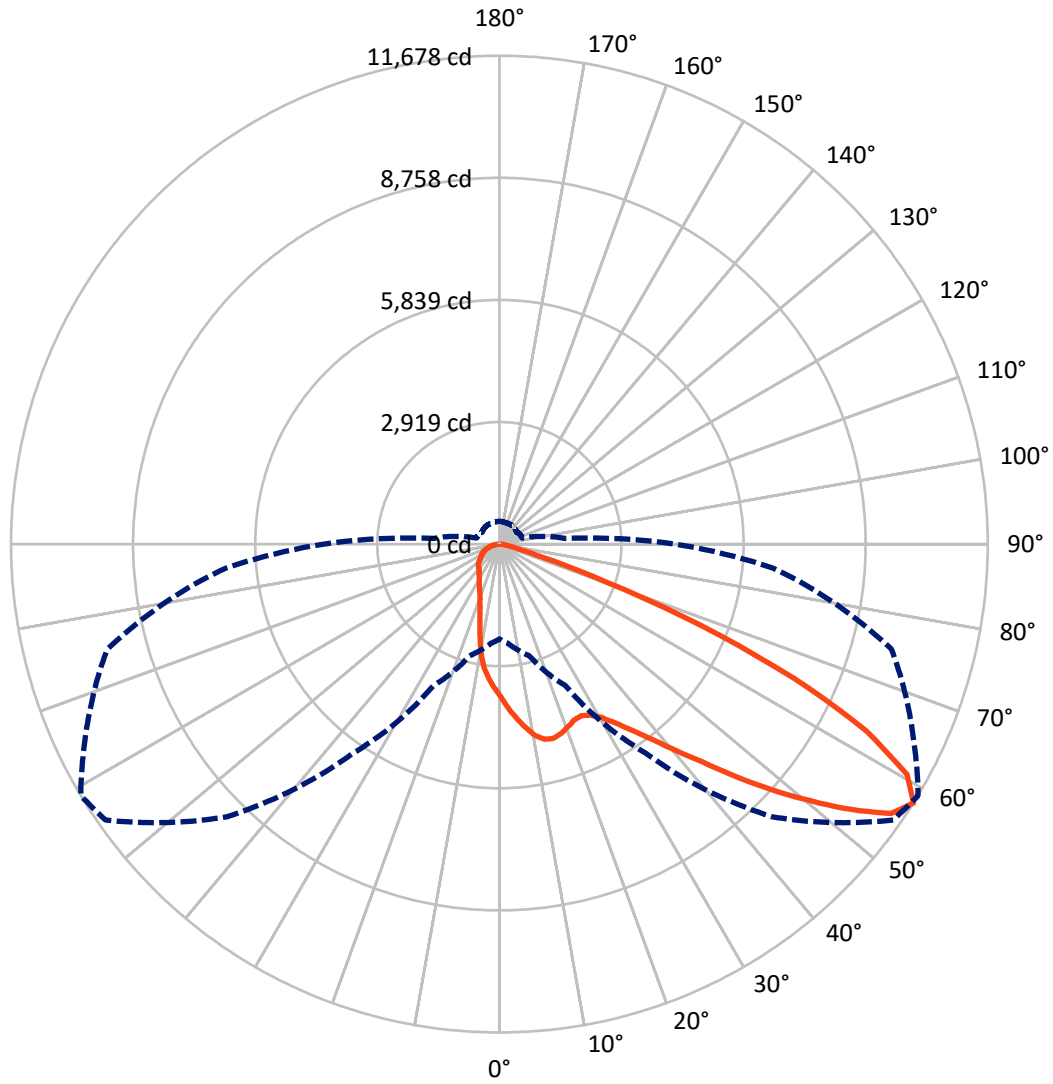
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2305.9	0.0	2305.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12552.4	0.0	12552.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	14858.3	0.0	14858.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	2.3
10°-20°	858.2	5.8
20°-30°	1391.1	9.4
30°-40°	2237.8	15.1
40°-50°	3475.1	23.4
50°-60°	3743.2	25.2
60°-70°	2172.4	14.6
70°-80°	567.1	3.8
80°-90°	74.7	0.5
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°	14858.3	100.0
0°-180°	14858.3	100.0

Coefficient of Utilization



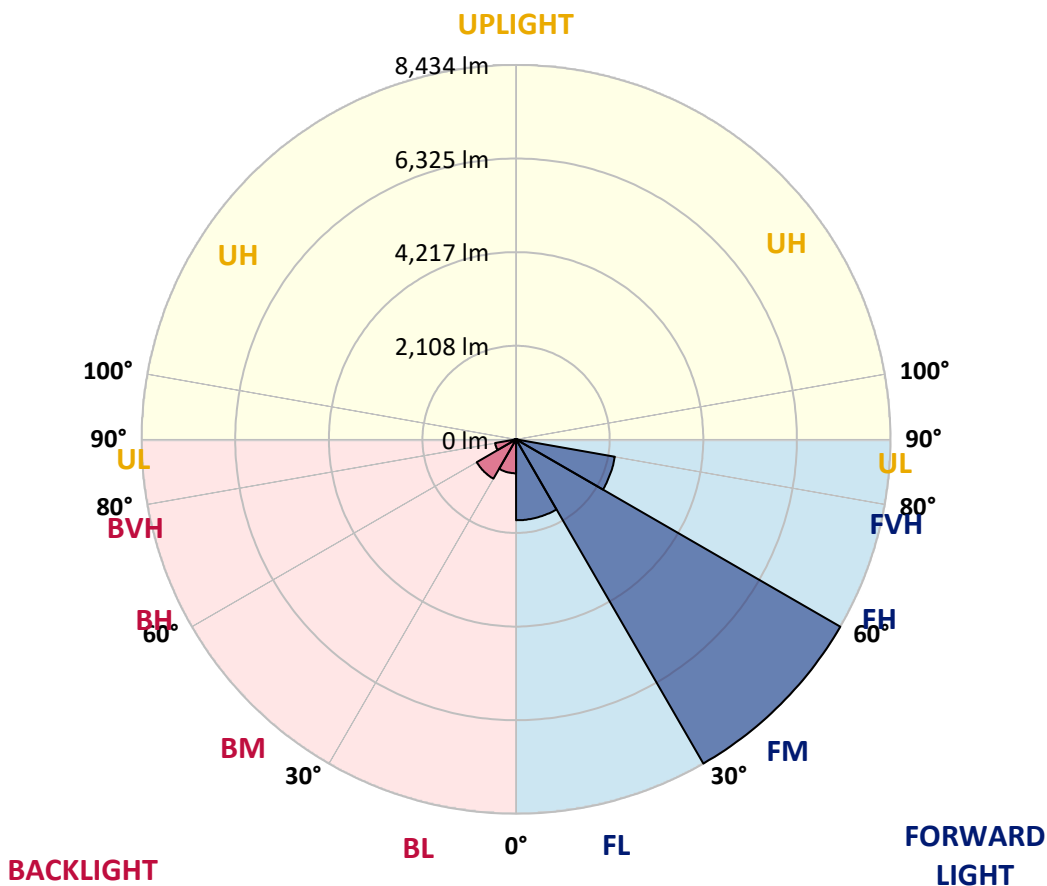
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.0	12.3			
FM (30°-60°)	8433.7	56.8			
FH (60°-80°)	2259.9	15.2			G2/5000
FVH (80°-90°)	35.8	0.2			G1/100
BL (0°-30°)	765.0	5.1	B2/1000		
BM (30°-60°)	1022.4	6.9	B2/2500		
BH (60°-80°)	479.6	3.2	B1/500		G1/500
BVH (80°-90°)	38.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4
2.5°	4136.9	4102.4	4126.5	4083.6	4065.8	4018.7	3958.1	3917.3	3854.5	3772.9	3701.8
5°	4548.0	4524.0	4529.2	4483.2	4442.4	4363.9	4239.5	4170.4	4063.7	3899.5	3746.8
7.5°	4535.5	4563.7	4579.4	4619.2	4630.7	4623.3	4511.4	4415.2	4298.0	4051.2	3821.1
10°	4065.8	4119.2	4167.3	4303.3	4468.5	4677.7	4703.9	4646.3	4528.2	4244.7	3910.0
12.5°	3554.3	3595.1	3638.0	3801.2	4054.3	4472.7	4756.2	4791.7	4744.7	4436.1	4010.4
15°	3303.3	3322.1	3362.9	3470.6	3672.5	4136.9	4665.2	4821.0	4905.8	4639.0	4123.3
17.5°	3292.8	3301.2	3321.1	3378.6	3518.8	3877.5	4501.0	4762.5	5032.3	4853.5	4255.1
20°	3509.3	3487.4	3474.8	3473.8	3542.8	3790.7	4342.0	4668.3	5091.9	5073.1	4396.4
22.5°	3809.5	3816.9	3789.7	3722.7	3714.4	3852.4	4262.5	4573.1	5109.7	5267.7	4527.1
25°	4235.3	4271.9	4191.3	4063.7	4001.0	4031.3	4311.6	4543.8	5107.6	5429.8	4608.7
27.5°	4732.1	4760.4	4678.8	4511.4	4381.7	4308.5	4458.1	4630.7	5125.4	5570.0	4657.9
30°	5298.0	5307.4	5195.5	5019.8	4830.4	4673.5	4701.8	4809.5	5216.4	5754.1	4715.4
32.5°	5989.4	6029.2	5859.7	5581.5	5316.8	5116.0	5029.2	5098.2	5413.1	5971.6	4804.3
35°	6867.0	6880.6	6665.1	6266.6	5892.1	5613.9	5431.9	5468.5	5712.2	6276.0	4938.2
37.5°	7694.4	7708.0	7478.9	7108.6	6573.1	6192.3	5928.8	5912.0	6095.1	6705.9	5156.8
40°	8219.5	8258.2	8155.7	7923.5	7412.0	6898.4	6540.7	6483.1	6597.1	7232.1	5461.2
42.5°	8501.9	8518.7	8516.6	8546.9	8242.5	7732.1	7231.0	7116.0	7192.3	7800.1	5768.7
45°	8504.0	8545.9	8657.8	8949.6	8963.2	8645.2	8103.4	7923.5	7853.4	8372.2	6089.8
47.5°	8123.3	8168.2	8475.8	9050.0	9473.7	9545.8	9148.3	8787.5	8492.5	8864.9	6353.4
50°	6970.6	7083.5	7669.3	8685.0	9574.1	10267.6	10145.2	9655.7	9060.5	9245.6	6518.7
52.5°	5969.5	5965.4	6326.2	7653.6	9154.6	10585.6	11109.6	10548.9	9622.2	9487.3	6560.5
55°	4371.3	4395.3	4764.5	5853.4	8035.4	10278.0	11639.9	11371.1	10266.5	9615.9	6543.8
57.5°	2266.7	2385.9	2764.6	3735.3	6105.5	9219.5	11498.7	11677.6	10921.3	9706.9	6565.8
60°	1145.4	1122.4	1258.3	1783.4	3537.6	7200.7	10628.4	11198.5	11039.5	9778.0	6579.4
62.5°	764.6	758.4	720.7	826.3	1445.6	4264.6	9060.5	9859.6	10218.4	9610.7	6405.7
65°	662.1	649.6	580.5	576.3	701.9	1768.8	6641.1	7750.9	8445.4	8867.0	5990.5
67.5°	596.2	577.4	507.3	472.8	504.2	777.2	3742.6	5198.6	6236.3	7498.8	5080.4
70°	532.4	523.0	452.9	402.7	399.6	473.8	1378.6	2683.0	3815.8	5116.0	3714.4
72.5°	477.0	460.2	400.6	352.5	328.4	335.8	598.3	1033.5	1974.9	3191.4	2221.7
75°	413.2	400.6	348.3	300.2	270.9	245.8	365.1	478.0	900.6	1516.7	1049.1
77.5°	319.0	310.7	275.1	238.5	221.8	183.1	221.8	301.2	416.3	639.1	546.0
80°	185.1	190.4	205.0	186.2	163.2	130.8	144.3	173.6	250.0	346.2	309.6
82.5°	93.1	99.4	132.8	107.7	97.3	76.4	85.8	102.5	130.8	191.4	121.3
85°	7.3	7.3	24.1	27.2	33.5	27.2	34.5	41.8	59.6	76.4	40.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.2	9.4	17.8	11.5
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°	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4
2.5°	3653.7	3600.3	3536.5	3484.2	3403.7	3360.8	3306.4	3239.5	3212.3	3199.7	3192.4
5°	3661.0	3566.9	3430.9	3305.4	3166.3	3056.4	2934.0	2806.4	2733.2	2715.4	2702.9
7.5°	3688.2	3556.4	3339.9	3132.8	2874.4	2634.9	2401.6	2170.5	2052.3	2007.3	2003.1
10°	3725.9	3552.2	3247.8	2903.7	2467.5	2088.9	1815.9	1634.9	1558.5	1533.4	1525.1
12.5°	3772.9	3549.1	3126.5	2585.7	1997.9	1640.1	1484.3	1455.0	1465.5	1463.4	1463.4
15°	3832.6	3553.3	2980.1	2225.9	1616.1	1423.6	1426.7	1461.3	1493.7	1498.9	1498.9
17.5°	3897.4	3549.1	2767.7	1865.0	1387.0	1372.4	1420.5	1468.6	1497.9	1502.1	1502.1
20°	3967.5	3529.2	2499.9	1525.1	1286.6	1339.9	1392.2	1429.9	1447.7	1451.9	1451.9
22.5°	4009.3	3472.7	2209.2	1290.8	1222.8	1288.7	1323.2	1361.9	1364.0	1330.5	1329.5
25°	4003.1	3367.1	1877.6	1140.1	1154.8	1212.3	1256.3	1229.1	1195.6	1176.8	1173.6
27.5°	3963.3	3208.1	1539.7	1026.1	1074.2	1139.1	1125.5	1102.5	1094.1	1073.2	1071.1
30°	3913.1	3012.5	1236.4	937.2	990.6	1050.2	1029.3	1027.2	1018.8	995.8	995.8
32.5°	3865.0	2810.6	1007.3	871.3	937.2	941.4	970.7	972.8	968.6	928.9	924.7
35°	3851.4	2608.7	852.5	819.0	884.9	882.8	924.7	923.6	851.4	796.0	795.0
37.5°	3892.2	2403.7	760.4	776.1	812.7	839.9	873.4	812.7	788.7	755.2	753.1
40°	3979.0	2214.4	713.4	751.0	766.7	806.5	754.2	758.4	752.1	727.0	723.8
42.5°	4094.1	2053.3	687.2	742.7	740.6	751.0	693.5	710.2	719.7	700.8	697.7
45°	4204.9	1913.1	673.6	711.3	721.7	661.1	649.6	665.3	679.9	672.6	669.4
47.5°	4286.5	1791.8	666.3	668.4	697.7	630.7	611.9	619.2	637.0	640.2	639.1
50°	4311.6	1688.3	657.9	632.8	626.6	600.4	585.8	583.7	604.6	619.2	621.3
52.5°	4263.5	1596.2	636.0	601.5	571.1	575.3	570.1	559.6	580.5	600.4	602.5
55°	4192.4	1543.9	601.5	571.1	535.6	552.3	554.4	545.0	558.6	572.2	572.2
57.5°	4197.6	1574.2	568.0	542.9	504.2	526.1	537.6	533.5	533.5	543.9	545.0
60°	4232.1	1618.2	546.0	507.3	472.8	495.8	522.0	517.8	508.4	522.0	522.0
62.5°	4132.8	1559.6	531.4	472.8	439.3	466.5	497.9	495.8	485.3	507.3	509.4
65°	3839.9	1402.7	514.6	429.9	405.8	437.2	464.4	471.7	462.3	491.6	496.9
67.5°	3218.6	1179.9	482.2	389.1	372.4	401.7	427.8	438.3	431.0	465.5	469.7
70°	2399.5	955.0	431.0	344.1	331.6	357.7	381.8	386.0	387.0	427.8	432.0
72.5°	1530.3	742.7	363.0	293.9	284.5	304.4	322.2	338.9	346.2	384.9	383.9
75°	853.5	552.3	291.8	248.9	232.2	247.9	268.8	288.7	309.6	366.1	372.4
77.5°	491.6	388.1	231.2	199.8	179.9	196.6	214.4	242.7	305.4	354.6	348.3
80°	277.2	252.1	174.7	146.4	133.9	146.4	160.0	213.4	240.6	261.5	264.6
82.5°	129.7	141.2	119.2	90.0	90.0	98.3	110.9	165.3	182.0	148.5	129.7
85°	47.1	63.8	58.6	46.0	40.8	39.7	69.0	94.1	58.6	52.3	45.0
87.5°	12.6	17.8	16.7	11.5	6.3	5.2	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)