

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: P633350

Luminaire Tested: GWS-SA2E-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633350
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-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15198.8 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

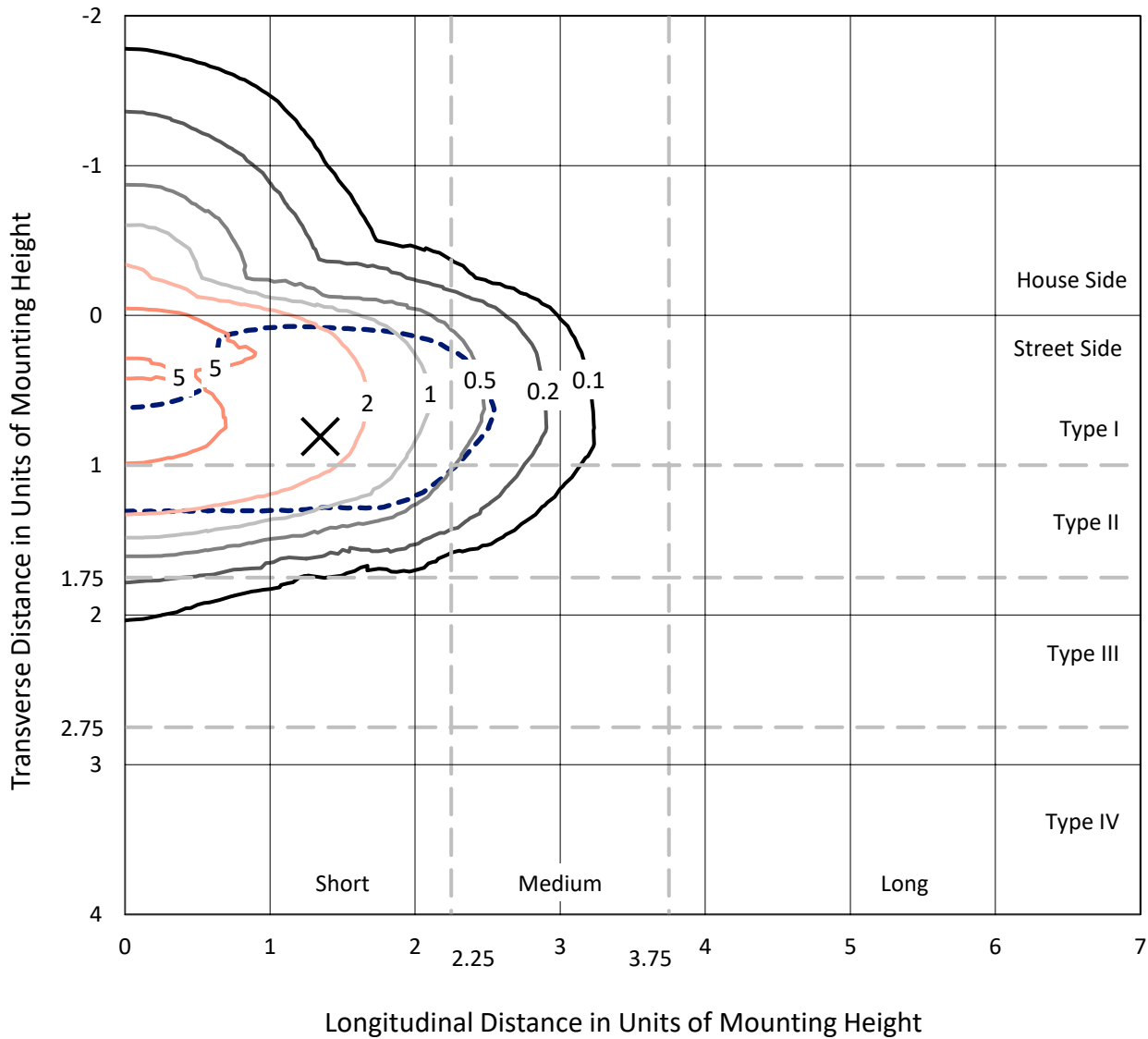
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

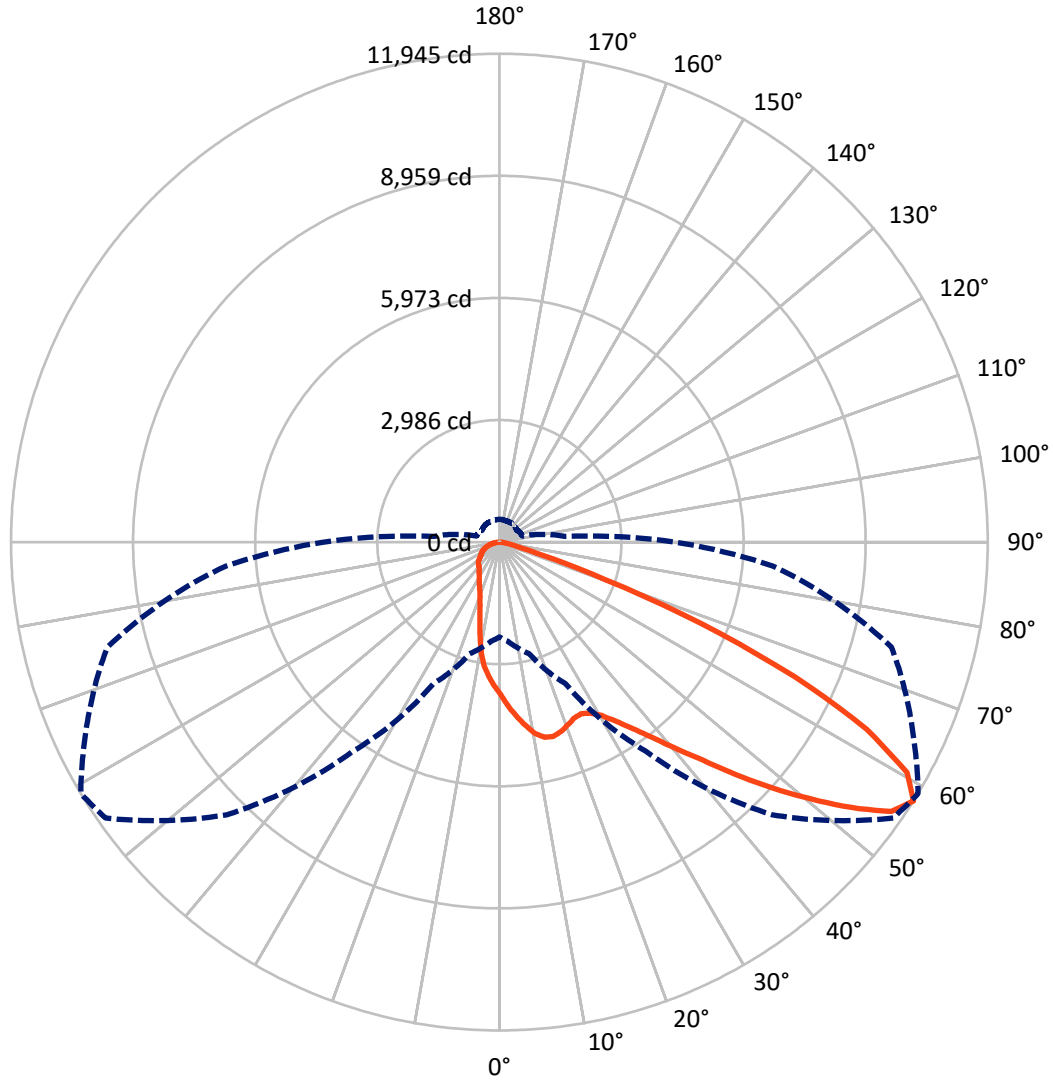
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2358.8	0.0	2358.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12840.0	0.0	12840.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	15198.8	0.0	15198.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.4	2.3
10°-20°	877.9	5.8
20°-30°	1423.0	9.4
30°-40°	2289.1	15.1
40°-50°	3554.8	23.4
50°-60°	3828.9	25.2
60°-70°	2222.2	14.6
70°-80°	580.1	3.8
80°-90°	76.4	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°	15198.8	100.0
0°-180°	15198.8	100.0

Coefficient of Utilization



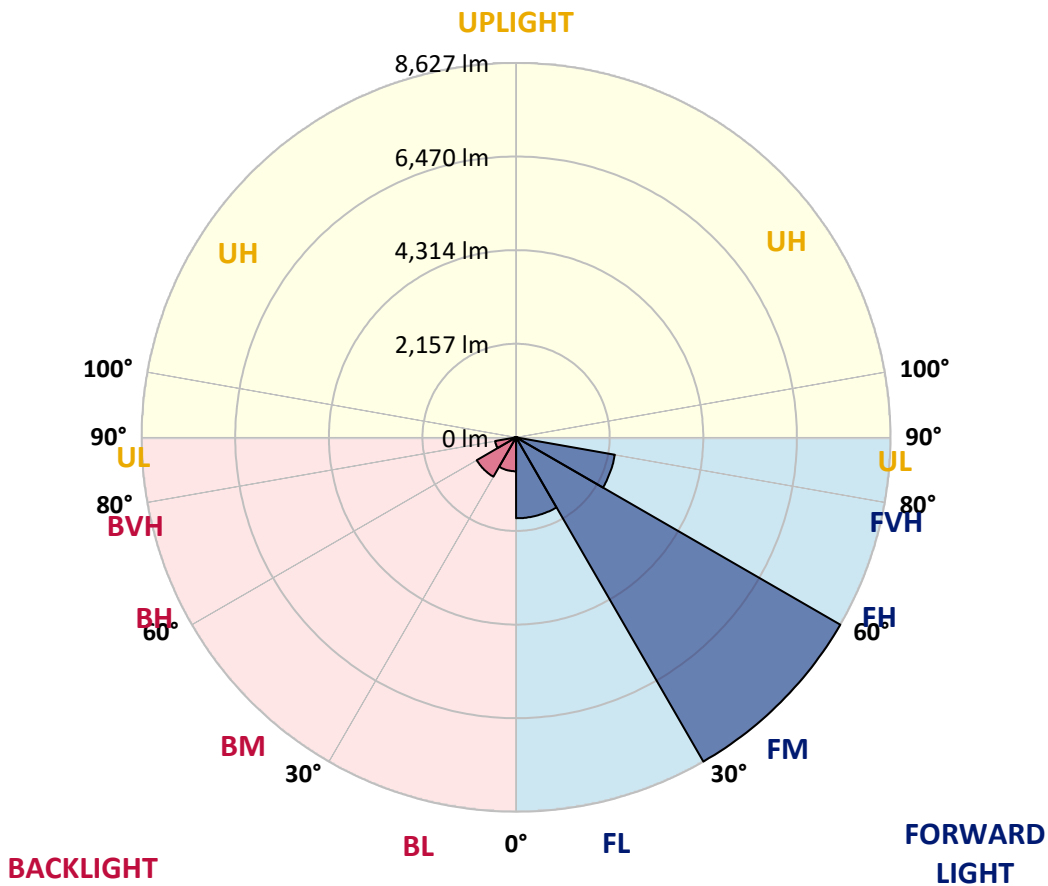
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1864.8	12.3			
FM (30°-60°)	8627.0	56.8			
FH (60°-80°)	2311.7	15.2			G2/5000
FVH (80°-90°)	36.6	0.2			G1/100
BL (0°-30°)	782.5	5.1	B2/1000		
BM (30°-60°)	1045.8	6.9	B2/2500		
BH (60°-80°)	490.6	3.2	B1/500		G1/500
BVH (80°-90°)	39.8	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°	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0
2.5°	4231.7	4196.4	4221.0	4177.2	4159.0	4110.8	4048.8	4007.1	3942.9	3859.4	3786.6
5°	4652.2	4627.6	4633.0	4585.9	4544.2	4463.9	4336.6	4266.0	4156.9	3988.9	3832.6
7.5°	4639.4	4668.3	4684.3	4725.0	4736.8	4729.3	4614.8	4516.4	4396.5	4144.0	3908.6
10°	4159.0	4213.6	4262.8	4401.9	4570.9	4784.9	4811.7	4752.8	4631.9	4342.0	3999.6
12.5°	3635.8	3677.5	3721.4	3888.3	4147.2	4575.2	4865.2	4901.6	4853.4	4537.8	4102.3
15°	3379.0	3398.2	3440.0	3550.2	3756.7	4231.7	4772.1	4931.5	5018.2	4745.3	4217.8
17.5°	3368.3	3376.8	3397.2	3456.0	3599.4	3966.4	4604.1	4871.6	5147.6	4964.7	4352.7
20°	3589.8	3567.3	3554.5	3553.4	3624.0	3877.6	4441.5	4775.3	5208.6	5189.4	4497.1
22.5°	3896.8	3904.3	3876.5	3808.0	3799.5	3940.7	4360.1	4677.9	5226.8	5388.4	4630.9
25°	4332.3	4369.8	4287.4	4156.9	4092.7	4123.7	4410.4	4648.0	5224.7	5554.2	4714.3
27.5°	4840.6	4869.5	4786.0	4614.8	4482.1	4407.2	4560.2	4736.8	5242.9	5697.6	4764.6
30°	5419.4	5429.1	5314.6	5134.8	4941.1	4780.6	4809.5	4919.7	5336.0	5885.9	4823.4
32.5°	6126.7	6167.3	5994.0	5709.4	5438.7	5233.2	5144.4	5215.1	5537.1	6108.5	4914.4
35°	7024.4	7038.3	6817.9	6410.2	6027.2	5742.6	5556.4	5593.8	5843.1	6419.8	5051.4
37.5°	7870.7	7884.6	7650.3	7271.5	6723.7	6334.2	6064.6	6047.5	6234.7	6859.6	5275.0
40°	8407.9	8447.4	8342.6	8105.1	7581.8	7056.5	6690.6	6631.7	6748.3	7397.8	5586.3
42.5°	8696.8	8713.9	8711.7	8742.8	8431.4	7909.3	7396.7	7279.0	7357.1	7978.8	5900.9
45°	8698.9	8741.7	8856.2	9154.7	9168.6	8843.3	8289.1	8105.1	8033.4	8564.1	6229.4
47.5°	8309.4	8355.4	8670.0	9257.4	9690.8	9764.6	9358.0	8988.9	8687.1	9068.0	6499.0
50°	7130.3	7245.9	7845.1	8884.0	9793.5	10502.9	10377.7	9876.9	9268.1	9457.5	6668.1
52.5°	6106.3	6102.1	6471.2	7829.0	9364.4	10828.1	11364.2	10790.7	9842.7	9704.7	6710.9
55°	4471.4	4496.0	4873.7	5987.6	8219.5	10513.6	11906.7	11631.7	10501.8	9836.3	6693.8
57.5°	2318.6	2440.6	2827.9	3820.9	6245.4	9430.8	11762.2	11945.2	11171.6	9929.4	6716.2
60°	1171.6	1148.1	1287.2	1824.3	3618.7	7365.7	10872.0	11455.1	11292.5	10002.1	6730.1
62.5°	782.2	775.7	737.2	845.3	1478.7	4362.3	9268.1	10085.6	10452.6	9830.9	6552.5
65°	677.3	664.5	593.8	589.6	718.0	1809.3	6793.3	7928.5	8639.0	9070.2	6127.7
67.5°	609.9	590.6	518.9	483.6	515.7	795.0	3828.4	5317.8	6379.2	7670.6	5196.9
70°	544.6	535.0	463.3	411.9	408.7	484.7	1410.2	2744.5	3903.3	5233.2	3799.5
72.5°	487.9	470.8	409.8	360.6	336.0	343.5	612.0	1057.1	2020.1	3264.5	2272.6
75°	422.6	409.8	356.3	307.1	277.1	251.4	373.4	489.0	921.2	1551.5	1073.2
77.5°	326.3	317.8	281.4	244.0	226.8	187.2	226.8	308.2	425.8	653.8	558.5
80°	189.4	194.7	209.7	190.5	166.9	133.7	147.7	177.6	255.7	354.2	316.7
82.5°	95.2	101.6	135.9	110.2	99.5	78.1	87.7	104.9	133.7	195.8	124.1
85°	7.5	7.5	24.6	27.8	34.2	27.8	35.3	42.8	61.0	78.1	41.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	5.3	9.6	18.2	11.8
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°	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0	3731.0
2.5°	3737.4	3682.9	3617.6	3564.1	3481.7	3437.8	3382.2	3313.7	3285.9	3273.1	3265.6
5°	3744.9	3648.6	3509.5	3381.1	3238.8	3126.5	3001.3	2870.7	2795.8	2777.7	2764.8
7.5°	3772.7	3637.9	3416.4	3204.6	2940.3	2695.3	2456.7	2220.2	2099.3	2053.3	2049.0
10°	3811.2	3633.6	3322.3	2970.2	2524.1	2136.7	1857.5	1672.4	1594.3	1568.6	1560.0
12.5°	3859.4	3630.4	3198.2	2645.0	2043.7	1677.7	1518.3	1488.3	1499.0	1496.9	1496.9
15°	3920.4	3634.7	3048.4	2276.9	1653.1	1456.2	1459.4	1494.8	1527.9	1533.3	1533.3
17.5°	3986.7	3630.4	2831.2	1907.8	1418.8	1403.8	1453.0	1502.2	1532.2	1536.5	1536.5
20°	4058.4	3610.1	2557.2	1560.0	1316.1	1370.6	1424.1	1462.7	1480.8	1485.1	1485.1
22.5°	4101.2	3552.3	2259.8	1320.3	1250.8	1318.2	1353.5	1393.1	1395.2	1361.0	1359.9
25°	4094.8	3444.2	1920.6	1166.3	1181.3	1240.1	1285.0	1257.2	1223.0	1203.7	1200.5
27.5°	4054.1	3281.6	1575.0	1049.6	1098.9	1165.2	1151.3	1127.8	1119.2	1097.8	1095.7
30°	4002.8	3081.5	1264.7	958.7	1013.3	1074.3	1052.9	1050.7	1042.2	1018.6	1018.6
32.5°	3953.6	2875.0	1030.4	891.3	958.7	963.0	992.9	995.1	990.8	950.1	945.9
35°	3939.6	2668.5	872.0	837.8	905.2	903.1	945.9	944.8	871.0	814.3	813.2
37.5°	3981.4	2458.8	777.9	793.9	831.4	859.2	893.4	831.4	806.8	772.5	770.4
40°	4070.2	2265.1	729.7	768.2	784.3	825.0	771.5	775.7	769.3	743.6	740.4
42.5°	4187.9	2100.4	703.0	759.7	757.5	768.2	709.4	726.5	736.1	716.9	713.7
45°	4301.3	1957.0	689.1	727.6	738.3	676.2	664.5	680.5	695.5	688.0	684.8
47.5°	4384.8	1832.9	681.6	683.7	713.7	645.2	625.9	633.4	651.6	654.8	653.8
50°	4410.4	1726.9	673.0	647.3	640.9	614.2	599.2	597.0	618.4	633.4	635.6
52.5°	4361.2	1632.8	650.5	615.2	584.2	588.5	583.1	572.4	593.8	614.2	616.3
55°	4288.5	1579.3	615.2	584.2	547.8	564.9	567.1	557.5	571.4	585.3	585.3
57.5°	4293.8	1610.3	581.0	555.3	515.7	538.2	550.0	545.7	545.7	556.4	557.5
60°	4329.1	1655.3	558.5	518.9	483.6	507.2	533.9	529.6	520.0	533.9	533.9
62.5°	4227.5	1595.3	543.5	483.6	449.4	477.2	509.3	507.2	496.5	518.9	521.1
65°	3927.9	1434.8	526.4	439.8	415.2	447.2	475.1	482.6	472.9	502.9	508.2
67.5°	3292.3	1206.9	493.3	398.0	380.9	410.9	437.6	448.3	440.8	476.1	480.4
70°	2454.5	976.9	440.8	352.0	339.2	365.9	390.5	394.8	395.9	437.6	441.9
72.5°	1565.4	759.7	371.3	300.7	291.0	311.4	329.6	346.7	354.2	393.8	392.7
75°	873.1	564.9	298.5	254.7	237.5	253.6	275.0	295.3	316.7	374.5	380.9
77.5°	502.9	397.0	236.5	204.4	184.0	201.2	219.3	248.2	312.4	362.7	356.3
80°	283.5	257.9	178.7	149.8	137.0	149.8	163.7	218.3	246.1	267.5	270.7
82.5°	132.7	144.4	122.0	92.0	92.0	100.6	113.4	169.1	186.2	151.9	132.7
85°	48.1	65.3	59.9	47.1	41.7	40.7	70.6	96.3	59.9	53.5	46.0
87.5°	12.8	18.2	17.1	11.8	6.4	5.3	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)