

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: P636815

Luminaire Tested: GWS-SA4B-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636815
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-SA4B-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15077.2 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

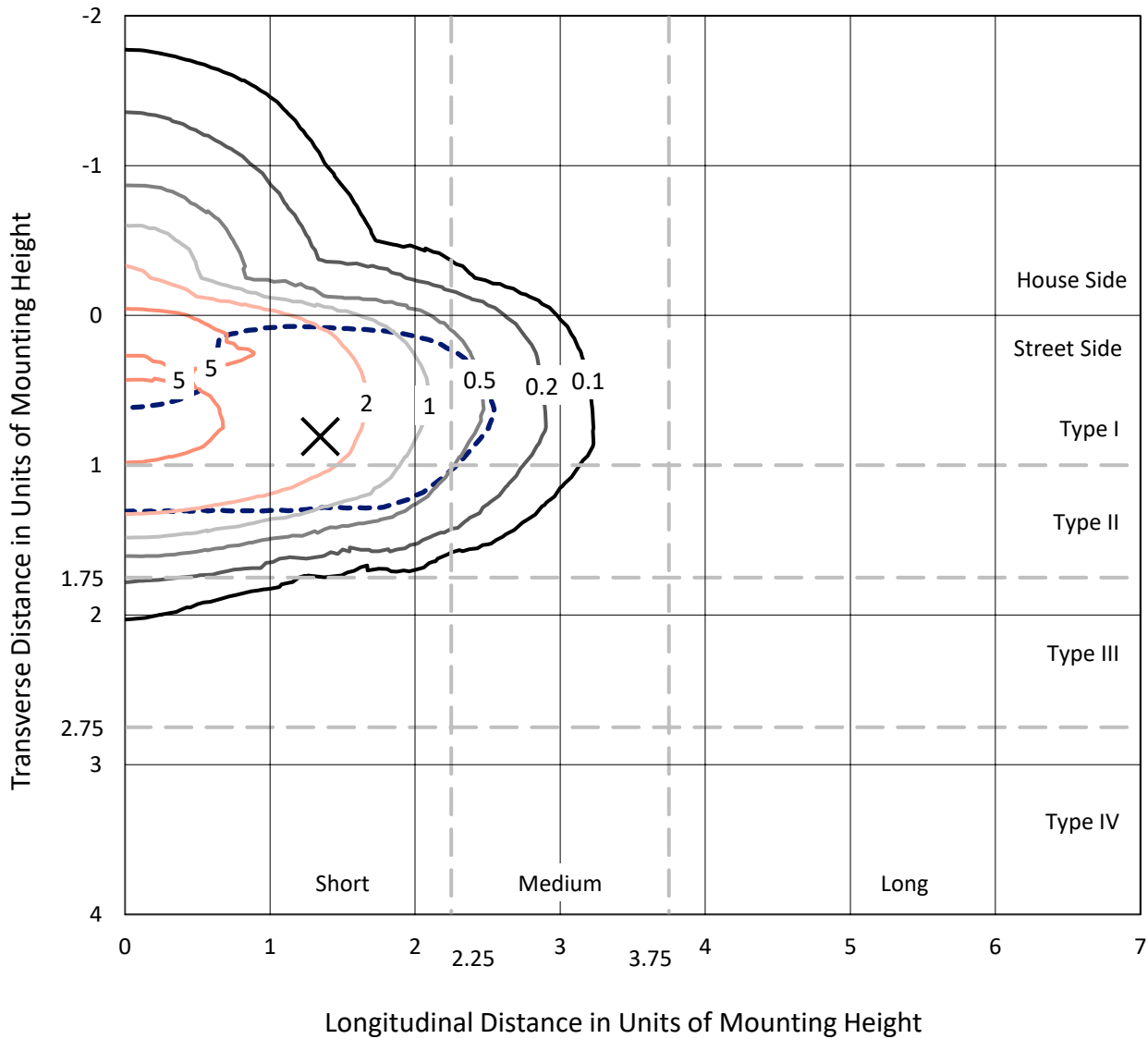
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

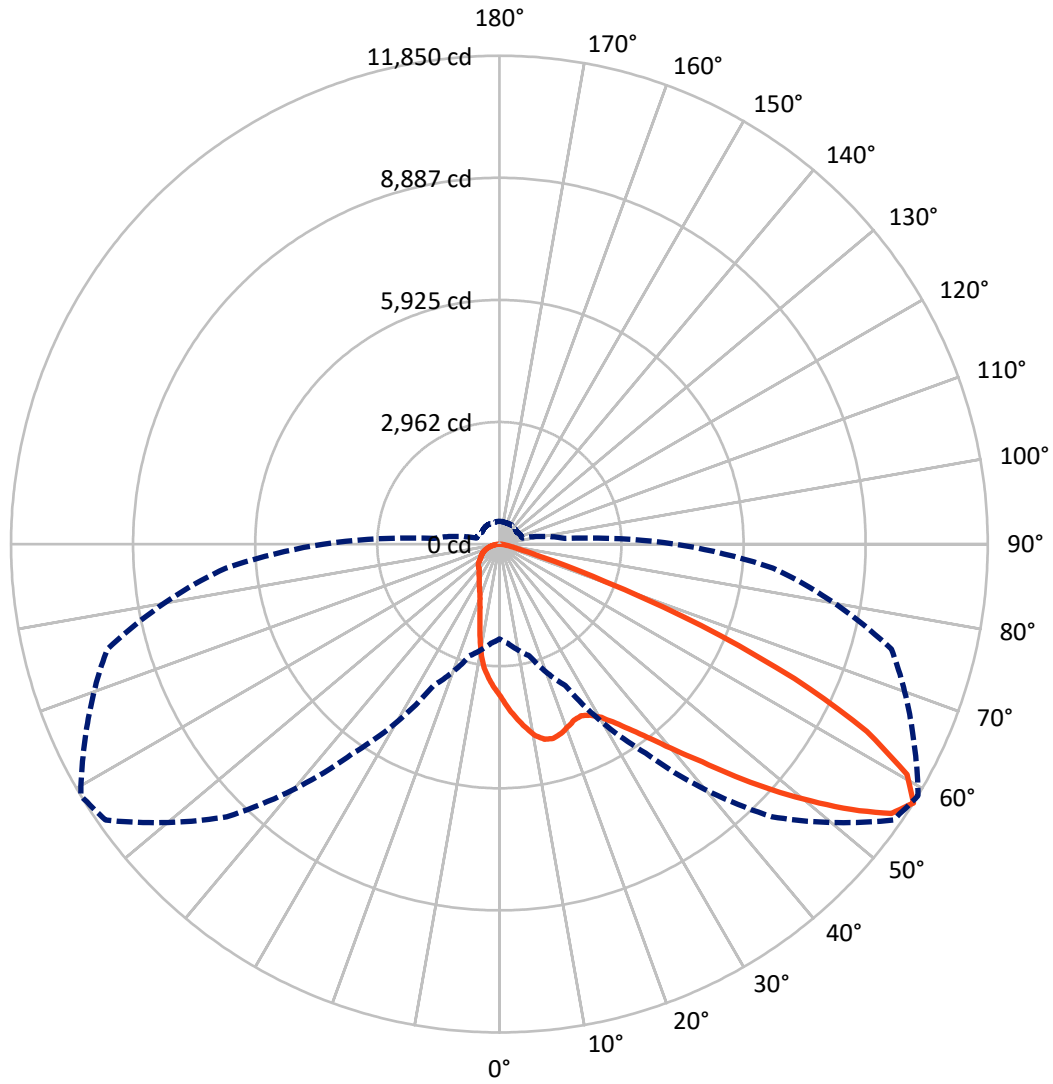
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	2339.9	0.0	2339.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12737.3	0.0	12737.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	15077.2	0.0	15077.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	2.3
10°-20°	870.8	5.8
20°-30°	1411.6	9.4
30°-40°	2270.8	15.1
40°-50°	3526.3	23.4
50°-60°	3798.3	25.2
60°-70°	2204.4	14.6
70°-80°	575.5	3.8
80°-90°	75.8	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°	15077.2	100.0
0°-180°	15077.2	100.0

Coefficient of Utilization



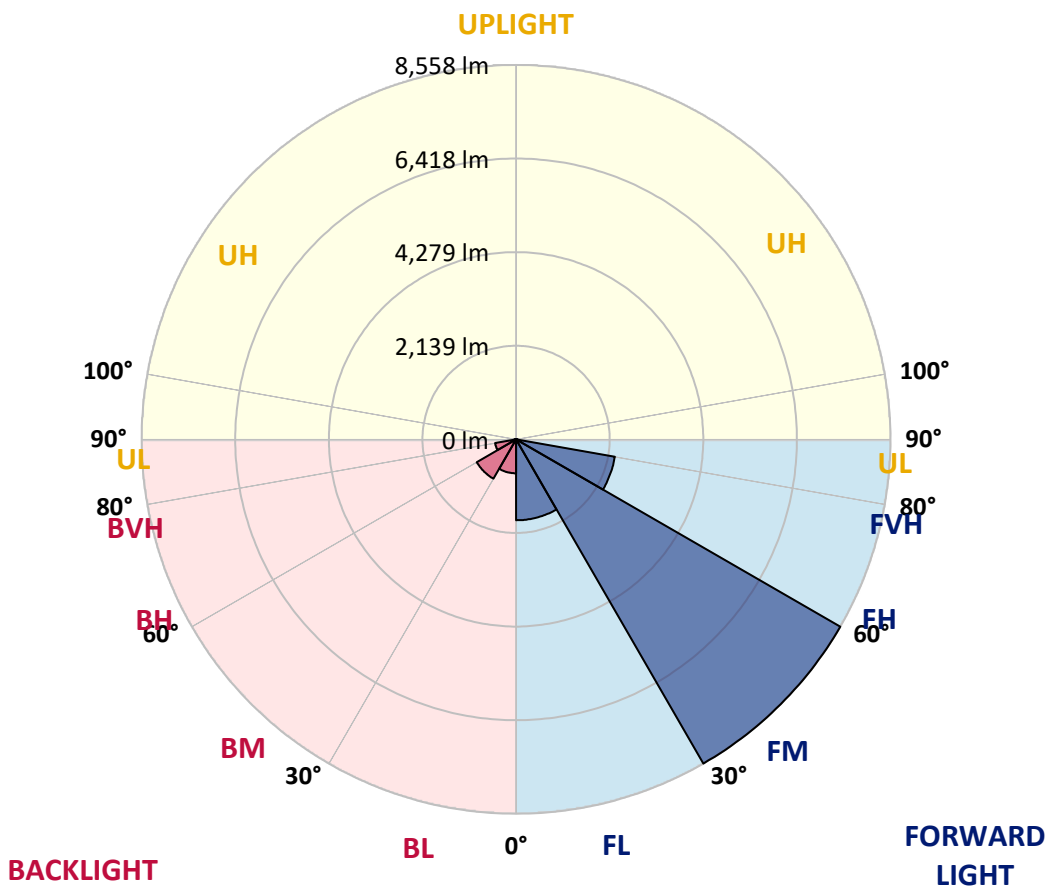
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.8	12.3			
FM (30°-60°)	8558.0	56.8			
FH (60°-80°)	2293.2	15.2			G2/5000
FVH (80°-90°)	36.3	0.2			G1/100
BL (0°-30°)	776.3	5.1	B2/1000		
BM (30°-60°)	1037.4	6.9	B2/2500		
BH (60°-80°)	486.7	3.2	B1/500		G1/500
BVH (80°-90°)	39.5	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°	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2
2.5°	4197.9	4162.9	4187.3	4143.8	4125.7	4078.0	4016.4	3975.0	3911.3	3828.5	3756.3
5°	4615.0	4590.6	4595.9	4549.2	4507.8	4428.2	4301.9	4231.9	4123.6	3957.0	3802.0
7.5°	4602.3	4630.9	4646.9	4687.2	4698.9	4691.5	4577.9	4480.2	4361.4	4110.9	3877.3
10°	4125.7	4179.8	4228.7	4366.7	4534.4	4746.6	4773.2	4714.8	4594.9	4307.2	3967.6
12.5°	3606.7	3648.1	3691.6	3857.2	4114.0	4538.6	4826.3	4862.3	4814.6	4501.5	4069.5
15°	3351.9	3371.1	3412.4	3521.8	3726.6	4197.9	4733.9	4892.1	4978.0	4707.4	4184.1
17.5°	3341.3	3349.8	3370.0	3428.4	3570.6	3934.7	4567.3	4832.6	5106.5	4925.0	4317.8
20°	3561.0	3538.8	3526.0	3525.0	3595.0	3846.6	4405.9	4737.1	5167.0	5147.9	4461.1
22.5°	3865.7	3873.1	3845.5	3777.6	3769.1	3909.2	4325.3	4640.5	5185.0	5345.3	4593.8
25°	4297.7	4334.8	4253.1	4123.6	4059.9	4090.7	4375.1	4610.8	5182.9	5509.8	4676.6
27.5°	4801.8	4830.5	4747.7	4577.9	4446.3	4372.0	4523.7	4698.9	5200.9	5652.0	4726.5
30°	5376.1	5385.6	5272.0	5093.7	4901.6	4742.4	4771.1	4880.4	5293.3	5838.8	4784.9
32.5°	6077.7	6118.0	5946.0	5663.7	5395.2	5191.4	5103.3	5173.3	5492.8	6059.6	4875.1
35°	6968.2	6982.0	6763.3	6358.9	5978.9	5696.6	5511.9	5549.1	5796.4	6368.5	5010.9
37.5°	7807.8	7821.6	7589.1	7213.4	6669.9	6283.6	6016.1	5999.1	6184.9	6804.7	5232.8
40°	8340.6	8379.9	8275.8	8040.2	7521.2	7000.0	6637.0	6578.6	6694.3	7338.6	5541.6
42.5°	8627.2	8644.2	8642.0	8672.8	8363.9	7846.0	7337.6	7220.8	7298.3	7915.0	5853.7
45°	8629.3	8671.8	8785.3	9081.5	9095.3	8772.6	8222.8	8040.2	7969.1	8495.6	6179.6
47.5°	8242.9	8288.6	8600.6	9183.4	9613.2	9686.5	9283.1	8916.9	8617.6	8995.5	6447.0
50°	7073.3	7187.9	7782.3	8812.9	9715.1	10418.8	10294.7	9797.9	9194.0	9381.8	6614.7
52.5°	6057.5	6053.2	6419.4	7766.4	9289.5	10741.5	11273.3	10704.4	9763.9	9627.0	6657.2
55°	4435.6	4460.1	4834.7	5939.7	8153.8	10429.5	11811.4	11538.6	10417.8	9757.6	6640.2
57.5°	2300.1	2421.1	2805.3	3790.3	6195.5	9355.3	11668.1	11849.6	11082.2	9849.9	6662.5
60°	1162.2	1138.9	1276.9	1809.7	3589.7	7306.8	10785.0	11363.5	11202.2	9922.1	6676.3
62.5°	775.9	769.5	731.3	838.5	1466.9	4327.4	9194.0	10004.9	10369.0	9752.3	6500.1
65°	671.9	659.1	589.1	584.8	712.2	1794.9	6738.9	7865.1	8569.9	8997.6	6078.7
67.5°	605.0	585.9	514.8	479.8	511.6	788.6	3797.7	5275.2	6328.2	7609.3	5155.3
70°	540.3	530.7	459.6	408.6	405.5	480.8	1398.9	2722.5	3872.0	5191.4	3769.1
72.5°	484.0	467.0	406.5	357.7	333.3	340.7	607.1	1048.7	2003.9	3238.4	2254.4
75°	419.3	406.5	353.5	304.6	274.9	249.4	370.4	485.1	913.9	1539.1	1064.6
77.5°	323.7	315.2	279.2	242.0	225.0	185.7	225.0	305.7	422.4	648.5	554.1
80°	187.9	193.2	208.0	188.9	165.6	132.7	146.5	176.2	253.7	351.3	314.2
82.5°	94.5	100.8	134.8	109.3	98.7	77.5	87.0	104.0	132.7	194.2	123.1
85°	7.4	7.4	24.4	27.6	34.0	27.6	35.0	42.5	60.5	77.5	41.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	5.3	9.6	18.0	11.7
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°	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2	3701.2
2.5°	3707.5	3653.4	3588.6	3535.6	3453.8	3410.3	3355.1	3287.2	3259.6	3246.9	3239.4
5°	3714.9	3619.4	3481.4	3354.1	3212.9	3101.5	2977.3	2847.8	2773.5	2755.4	2742.7
7.5°	3742.5	3608.8	3389.1	3178.9	2916.8	2673.7	2437.0	2202.4	2082.5	2036.9	2032.6
10°	3780.8	3604.6	3295.7	2946.5	2503.9	2119.6	1842.6	1659.0	1581.5	1556.0	1547.5
12.5°	3828.5	3601.4	3172.6	2623.8	2027.3	1664.3	1506.1	1476.4	1487.0	1484.9	1484.9
15°	3889.0	3605.6	3024.0	2258.7	1639.9	1444.6	1447.8	1482.8	1515.7	1521.0	1521.0
17.5°	3954.8	3601.4	2808.5	1892.5	1407.4	1392.6	1441.4	1490.2	1519.9	1524.2	1524.2
20°	4025.9	3581.2	2536.8	1547.5	1305.5	1359.7	1412.7	1451.0	1469.0	1473.2	1473.2
22.5°	4068.4	3523.9	2241.7	1309.8	1240.8	1307.7	1342.7	1382.0	1384.1	1350.1	1349.1
25°	4062.0	3416.7	1905.2	1156.9	1171.8	1230.2	1274.8	1247.2	1213.2	1194.1	1190.9
27.5°	4021.7	3255.4	1562.4	1041.2	1090.1	1155.9	1142.1	1118.7	1110.2	1089.0	1086.9
30°	3970.8	3056.9	1254.6	951.0	1005.2	1065.7	1044.4	1042.3	1033.8	1010.5	1010.5
32.5°	3921.9	2852.0	1022.1	884.2	951.0	955.3	985.0	987.1	982.9	942.5	938.3
35°	3908.1	2647.2	865.1	831.1	898.0	895.8	938.3	937.2	864.0	807.7	806.7
37.5°	3949.5	2439.1	771.6	787.6	824.7	852.3	886.3	824.7	800.3	766.3	764.2
40°	4037.6	2247.0	723.9	762.1	778.0	818.4	765.3	769.5	763.2	737.7	734.5
42.5°	4154.4	2083.6	697.3	753.6	751.5	762.1	703.7	720.7	730.3	711.1	708.0
45°	4266.9	1941.3	683.6	721.8	732.4	670.8	659.1	675.1	689.9	682.5	679.3
47.5°	4349.7	1818.2	676.1	678.2	708.0	640.0	620.9	628.4	646.4	649.6	648.5
50°	4375.1	1713.1	667.6	642.2	635.8	609.3	594.4	592.3	613.5	628.4	630.5
52.5°	4326.3	1619.7	645.3	610.3	579.5	583.8	578.5	567.9	589.1	609.3	611.4
55°	4254.1	1566.6	610.3	579.5	543.4	560.4	562.5	553.0	566.8	580.6	580.6
57.5°	4259.5	1597.4	576.3	550.9	511.6	533.9	545.6	541.3	541.3	551.9	553.0
60°	4294.5	1642.0	554.1	514.8	479.8	503.1	529.6	525.4	515.8	529.6	529.6
62.5°	4193.6	1582.6	539.2	479.8	445.8	473.4	505.2	503.1	492.5	514.8	516.9
65°	3896.5	1423.4	522.2	436.2	411.8	443.7	471.3	478.7	469.1	498.9	504.2
67.5°	3266.0	1197.3	489.3	394.8	377.9	407.6	434.1	444.7	437.3	472.3	476.6
70°	2434.9	969.1	437.3	349.2	336.5	363.0	387.4	391.7	392.7	434.1	438.4
72.5°	1552.8	753.6	368.3	298.3	288.7	308.9	326.9	343.9	351.3	390.6	389.5
75°	866.1	560.4	296.1	252.6	235.6	251.6	272.8	293.0	314.2	371.5	377.9
77.5°	498.9	393.8	234.6	202.7	182.6	199.5	217.6	246.2	309.9	359.8	353.5
80°	281.3	255.8	177.3	148.6	135.9	148.6	162.4	216.5	244.1	265.4	268.5
82.5°	131.6	143.3	121.0	91.3	91.3	99.8	112.5	167.7	184.7	150.7	131.6
85°	47.8	64.7	59.4	46.7	41.4	40.3	70.1	95.5	59.4	53.1	45.6
87.5°	12.7	18.0	17.0	11.7	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)