

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: P633845

Luminaire Tested: GWS-SA2F-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633845
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-SA2F-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: 16898.3 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

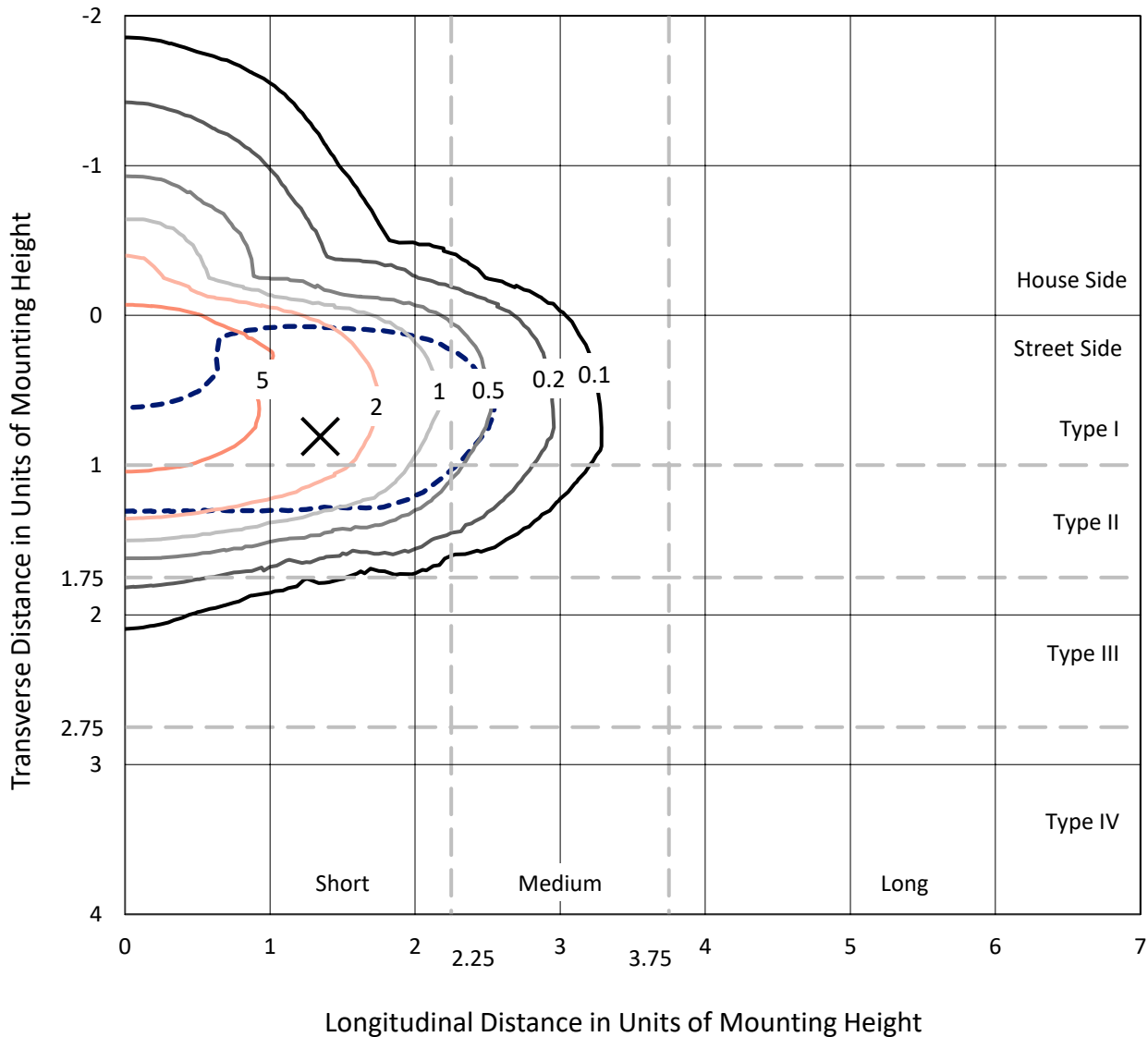
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

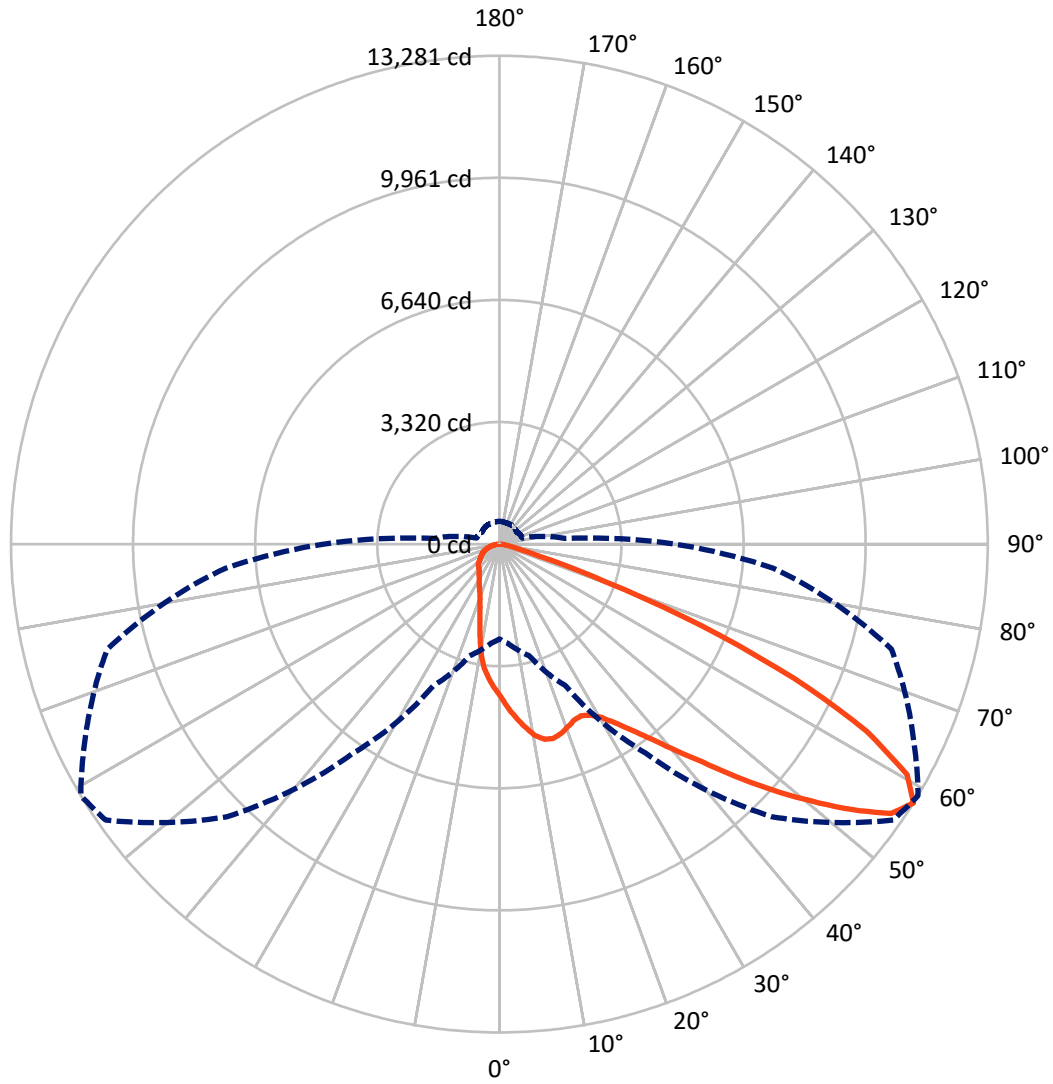
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2622.5	0.0	2622.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	14275.8	0.0	14275.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	16898.3	0.0	16898.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	2.3
10°-20°	976.0	5.8
20°-30°	1582.1	9.4
30°-40°	2545.1	15.1
40°-50°	3952.2	23.4
50°-60°	4257.1	25.2
60°-70°	2470.7	14.6
70°-80°	645.0	3.8
80°-90°	85.0	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°	16898.3	100.0
0°-180°	16898.3	100.0

Coefficient of Utilization



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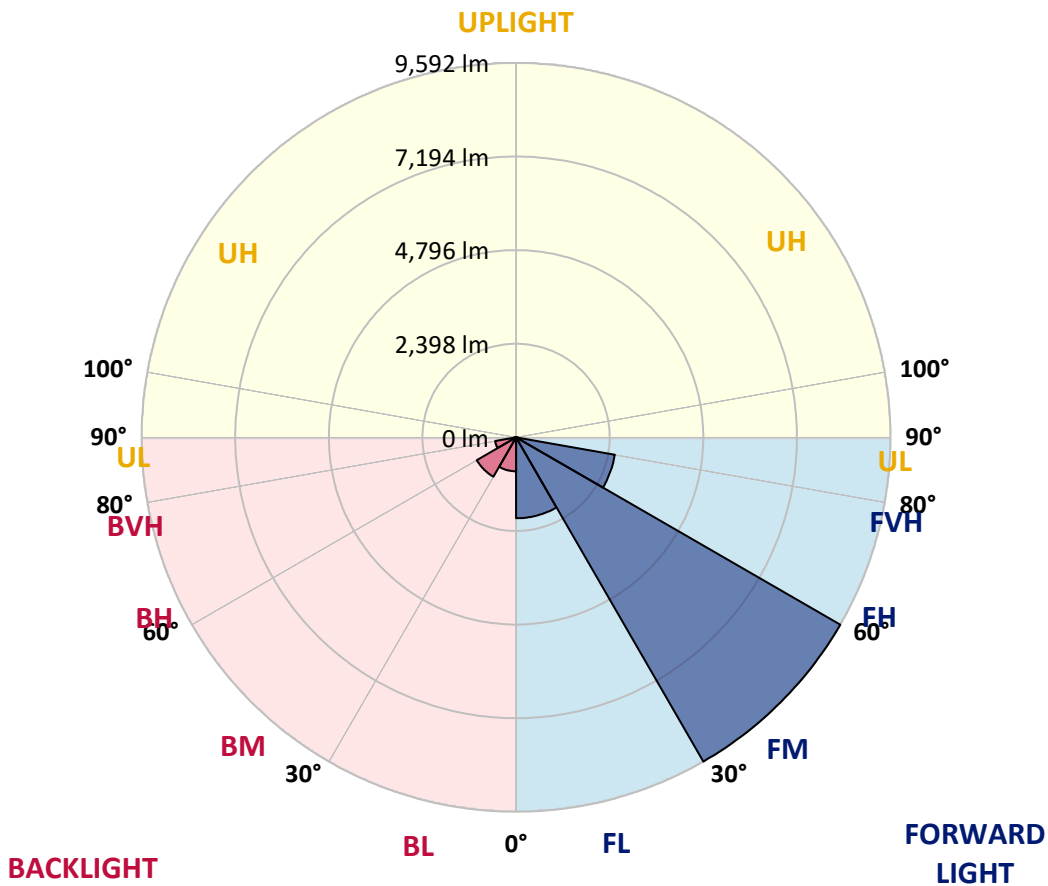
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.3	12.3			
FM (30°-60°)	9591.7	56.8			
FH (60°-80°)	2570.2	15.2			G2/5000
FVH (80°-90°)	40.7	0.2			G1/100
BL (0°-30°)	870.1	5.1	B2/1000		
BM (30°-60°)	1162.7	6.9	B2/2500		
BH (60°-80°)	545.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	44.3	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°	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2
2.5°	4704.9	4665.7	4693.0	4644.3	4624.0	4570.5	4501.5	4455.1	4383.7	4290.9	4210.1
5°	5172.5	5145.1	5151.0	5098.7	5052.3	4963.1	4821.5	4743.0	4621.7	4434.9	4261.2
7.5°	5158.2	5190.3	5208.1	5253.3	5266.4	5258.1	5130.8	5021.4	4888.1	4607.4	4345.7
10°	4624.0	4684.7	4739.4	4894.1	5082.0	5320.0	5349.7	5284.3	5149.9	4827.5	4446.8
12.5°	4042.3	4088.7	4137.5	4323.1	4611.0	5086.8	5409.2	5449.6	5396.1	5045.2	4561.0
15°	3756.8	3778.2	3824.6	3947.1	4176.7	4704.9	5305.7	5482.9	5579.3	5276.0	4689.5
17.5°	3744.9	3754.4	3777.0	3842.5	4001.9	4409.9	5118.9	5416.3	5723.2	5519.8	4839.4
20°	3991.2	3966.2	3951.9	3950.7	4029.2	4311.2	4938.1	5309.3	5791.1	5769.6	5000.0
22.5°	4332.6	4340.9	4310.0	4233.8	4224.3	4381.4	4847.7	5201.0	5811.3	5990.9	5148.7
25°	4816.8	4858.4	4766.8	4621.7	4550.3	4584.8	4903.6	5167.7	5808.9	6175.3	5241.5
27.5°	5381.8	5413.9	5321.2	5130.8	4983.3	4900.0	5070.1	5266.4	5829.1	6334.7	5297.4
30°	6025.4	6036.1	5908.8	5709.0	5493.7	5315.2	5347.3	5469.9	5932.6	6544.1	5362.8
32.5°	6811.7	6857.0	6664.2	6347.8	6046.8	5818.4	5719.7	5798.2	6156.3	6791.5	5463.9
35°	7809.8	7825.3	7580.2	7127.0	6701.1	6384.7	6177.7	6219.3	6496.5	7137.7	5616.2
37.5°	8750.8	8766.3	8505.8	8084.6	7475.6	7042.5	6742.7	6723.7	6931.9	7626.6	5864.8
40°	9348.0	9392.0	9275.4	9011.3	8429.6	7845.5	7438.7	7373.2	7502.9	8225.0	6211.0
42.5°	9669.2	9688.2	9685.9	9720.4	9374.2	8793.6	8223.8	8093.0	8179.8	8871.0	6560.7
45°	9671.6	9719.2	9846.5	10178.4	10193.8	9832.2	9216.0	9011.3	8931.6	9521.7	6926.0
47.5°	9238.6	9289.7	9639.5	10292.6	10774.4	10856.4	10404.4	9994.0	9658.5	10082.0	7225.7
50°	7927.6	8056.1	8722.3	9877.4	10888.6	11677.3	11538.1	10981.4	10304.5	10515.0	7413.7
52.5°	6789.1	6784.4	7194.8	8704.4	10411.5	12038.9	12634.9	11997.3	10943.3	10789.8	7461.3
55°	4971.4	4998.8	5418.7	6657.1	9138.6	11689.2	13238.1	12932.3	11676.1	10936.1	7442.2
57.5°	2577.9	2713.5	3144.2	4248.1	6943.8	10485.3	13077.5	13280.9	12420.8	11039.6	7467.2
60°	1302.6	1276.5	1431.1	2028.3	4023.3	8189.3	12087.7	12736.0	12555.2	11120.5	7482.7
62.5°	869.6	862.5	819.6	939.8	1644.1	4850.1	10304.5	11213.3	11621.4	10930.2	7285.2
65°	753.0	738.8	660.2	655.5	798.2	2011.6	7552.9	8815.1	9605.0	10084.4	6812.9
67.5°	678.1	656.7	577.0	537.7	573.4	883.9	4256.4	5912.4	7092.5	8528.4	5778.0
70°	605.5	594.8	515.1	458.0	454.4	538.9	1567.9	3051.4	4339.7	5818.4	4224.3
72.5°	542.5	523.4	455.6	400.9	373.5	381.9	680.5	1175.3	2246.0	3629.5	2526.7
75°	469.9	455.6	396.1	341.4	308.1	279.6	415.2	543.7	1024.3	1724.9	1193.2
77.5°	362.8	353.3	312.9	271.2	252.2	208.2	252.2	342.6	473.5	726.9	621.0
80°	210.6	216.5	233.2	211.8	185.6	148.7	164.2	197.5	284.3	393.8	352.1
82.5°	105.9	113.0	151.1	122.5	110.6	86.8	97.5	116.6	148.7	217.7	138.0
85°	8.3	8.3	27.4	30.9	38.1	30.9	39.3	47.6	67.8	86.8	46.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	5.9	10.7	20.2	13.1
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°	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2	4148.2
2.5°	4155.3	4094.7	4022.1	3962.6	3871.0	3822.2	3760.4	3684.2	3653.3	3639.0	3630.7
5°	4163.7	4056.6	3901.9	3759.2	3601.0	3476.1	3336.9	3191.7	3108.5	3088.2	3074.0
7.5°	4194.6	4044.7	3798.4	3562.9	3269.1	2996.6	2731.4	2468.5	2334.0	2282.9	2278.1
10°	4237.4	4039.9	3693.8	3302.4	2806.3	2375.7	2065.2	1859.4	1772.5	1744.0	1734.5
12.5°	4290.9	4036.4	3555.8	2940.7	2272.2	1865.3	1688.1	1654.8	1666.7	1664.3	1664.3
15°	4358.8	4041.1	3389.2	2531.5	1838.0	1619.1	1622.6	1661.9	1698.8	1704.7	1704.7
17.5°	4432.5	4036.4	3147.7	2121.1	1577.4	1560.8	1615.5	1670.2	1703.5	1708.3	1708.3
20°	4512.2	4013.8	2843.2	1734.5	1463.2	1523.9	1583.4	1626.2	1646.4	1651.2	1651.2
22.5°	4559.8	3949.5	2512.5	1468.0	1390.7	1465.6	1504.9	1548.9	1551.3	1513.2	1512.0
25°	4552.7	3829.4	2135.4	1296.7	1313.3	1378.8	1428.7	1397.8	1359.7	1338.3	1334.8
27.5°	4507.5	3648.6	1751.1	1167.0	1221.7	1295.5	1280.0	1253.9	1244.3	1220.5	1218.2
30°	4450.4	3426.1	1406.1	1065.9	1126.6	1194.4	1170.6	1168.2	1158.7	1132.5	1132.5
32.5°	4395.6	3196.5	1145.6	991.0	1065.9	1070.7	1104.0	1106.3	1101.6	1056.4	1051.6
35°	4380.2	2966.9	969.5	931.5	1006.4	1004.0	1051.6	1050.4	968.3	905.3	904.1
37.5°	4426.6	2733.7	864.9	882.7	924.3	955.3	993.3	924.3	897.0	858.9	856.5
40°	4525.3	2518.4	811.3	854.1	872.0	917.2	857.7	862.5	855.3	826.8	823.2
42.5°	4656.2	2335.2	781.6	844.6	842.2	854.1	788.7	807.7	818.5	797.0	793.5
45°	4782.3	2175.8	766.1	808.9	820.8	751.8	738.8	756.6	773.3	764.9	761.4
47.5°	4875.1	2037.8	757.8	760.2	793.5	717.3	695.9	704.3	724.5	728.0	726.9
50°	4903.6	1920.0	748.3	719.7	712.6	682.8	666.2	663.8	687.6	704.3	706.6
52.5°	4848.9	1815.4	723.3	684.0	649.5	654.3	648.3	636.4	660.2	682.8	685.2
55°	4768.0	1755.9	684.0	649.5	609.1	628.1	630.5	619.8	635.3	650.7	650.7
57.5°	4773.9	1790.4	646.0	617.4	573.4	598.4	611.5	606.7	606.7	618.6	619.8
60°	4813.2	1840.3	621.0	577.0	537.7	563.9	593.6	588.9	578.2	593.6	593.6
62.5°	4700.2	1773.7	604.3	537.7	499.6	530.6	566.3	563.9	552.0	577.0	579.3
65°	4367.1	1595.3	585.3	488.9	461.6	497.3	528.2	536.5	525.8	559.1	565.1
67.5°	3660.5	1341.9	548.4	442.5	423.5	456.8	486.6	498.4	490.1	529.4	534.1
70°	2729.0	1086.1	490.1	391.4	377.1	406.8	434.2	439.0	440.2	486.6	491.3
72.5°	1740.4	844.6	412.8	334.3	323.6	346.2	366.4	385.4	393.8	437.8	436.6
75°	970.7	628.1	331.9	283.1	264.1	281.9	305.7	328.3	352.1	416.4	423.5
77.5°	559.1	441.3	262.9	227.2	204.6	223.6	243.9	276.0	347.4	403.3	396.1
80°	315.2	286.7	198.7	166.5	152.3	166.5	182.0	242.7	273.6	297.4	301.0
82.5°	147.5	160.6	135.6	102.3	102.3	111.8	126.1	188.0	207.0	168.9	147.5
85°	53.5	72.6	66.6	52.3	46.4	45.2	78.5	107.1	66.6	59.5	51.2
87.5°	14.3	20.2	19.0	13.1	7.1	5.9	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)