

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: P636870

Luminaire Tested: GWS-SA4B-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636870
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-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14870.5 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

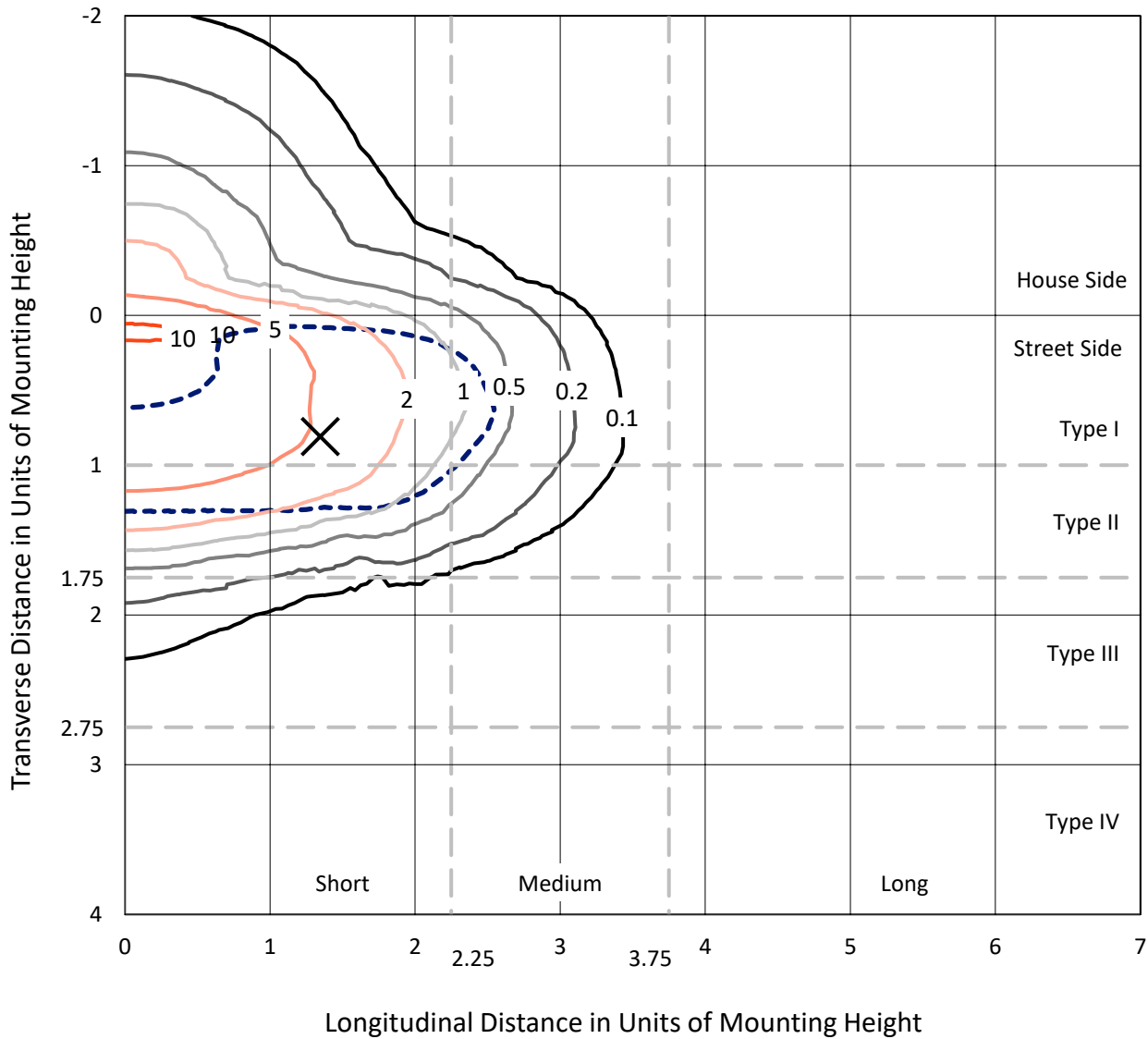
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

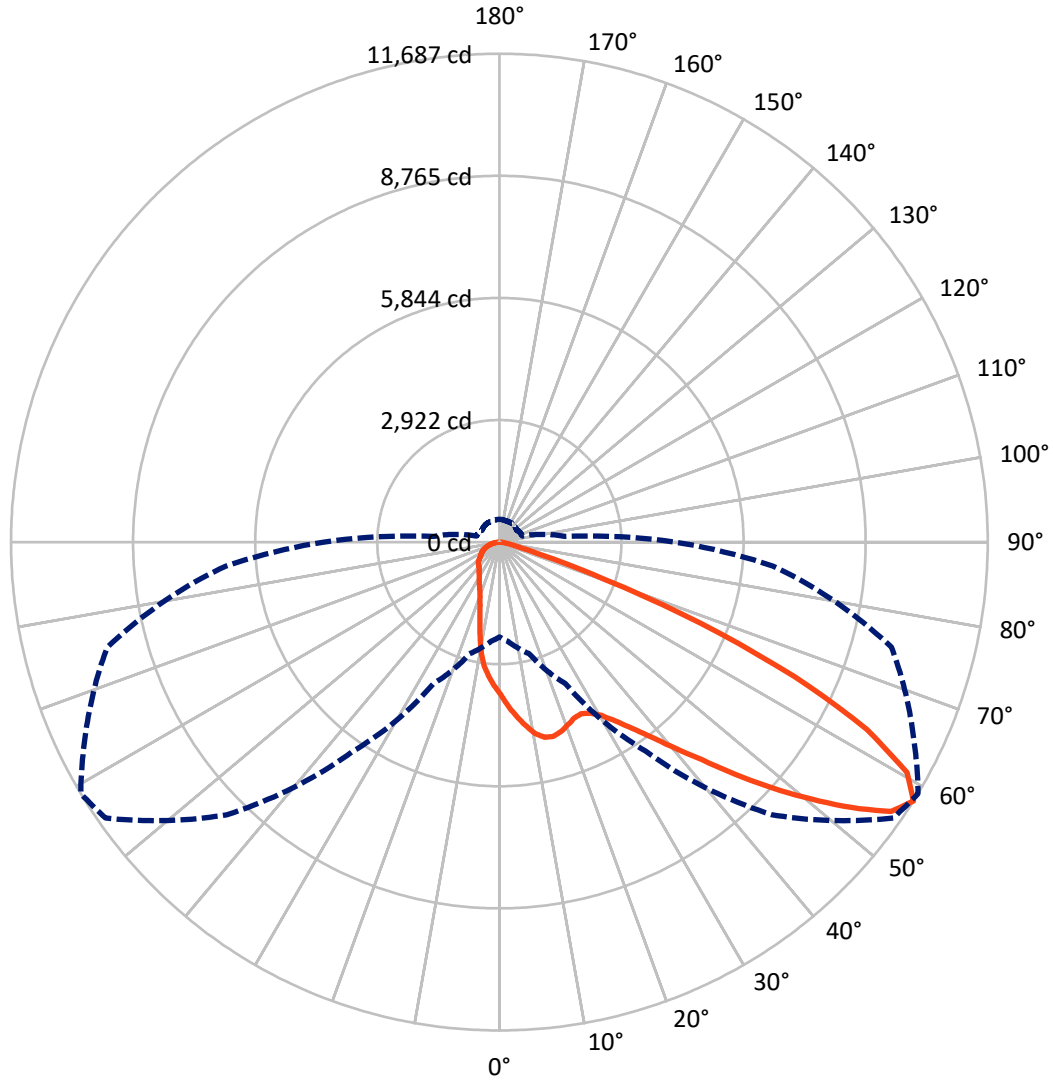
✕ Max cd
 - - - 1/2 Max cd



Based on 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	2307.8	0.0	2307.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12562.7	0.0	12562.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	14870.5	0.0	14870.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	2.3
10°-20°	858.9	5.8
20°-30°	1392.3	9.4
30°-40°	2239.7	15.1
40°-50°	3478.0	23.4
50°-60°	3746.2	25.2
60°-70°	2174.2	14.6
70°-80°	567.6	3.8
80°-90°	74.8	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°	14870.5	100.0
0°-180°	14870.5	100.0

Coefficient of Utilization



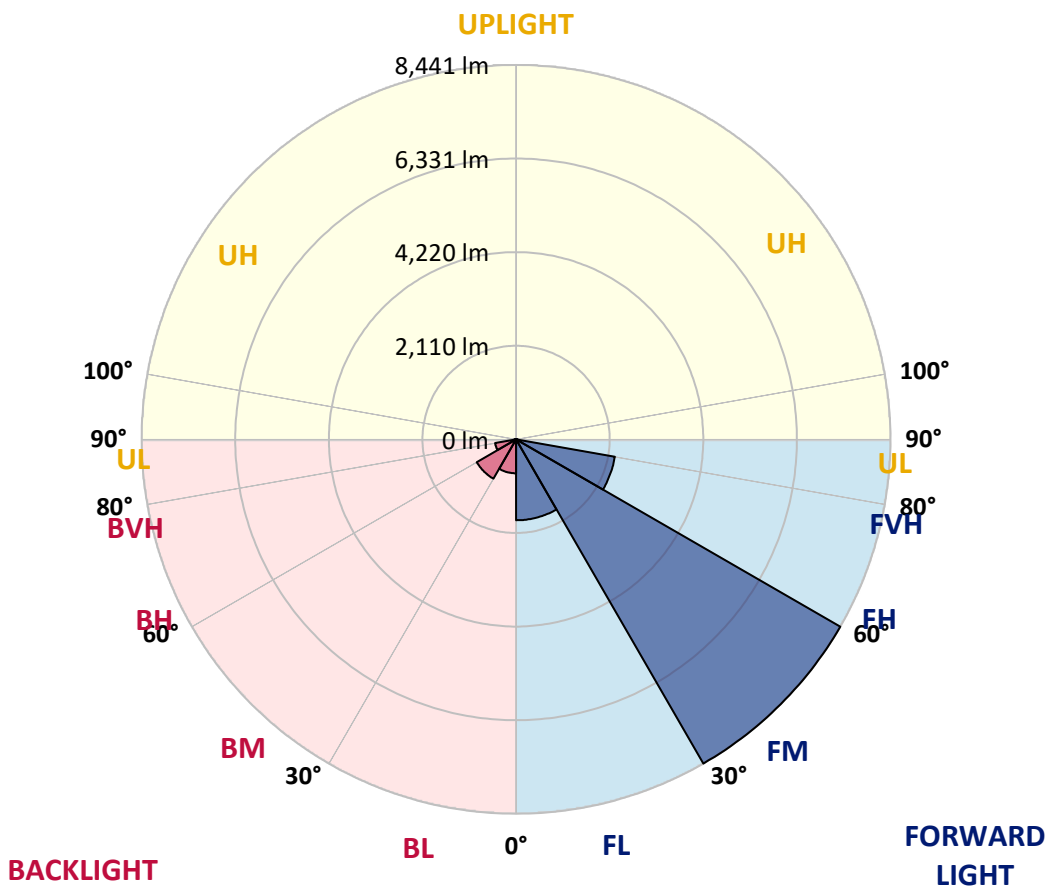
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1824.5	12.3			
FM (30°-60°)	8440.7	56.8			
FH (60°-80°)	2261.7	15.2			G2/5000
FVH (80°-90°)	35.8	0.2			G1/100
BL (0°-30°)	765.6	5.1	B2/1000		
BM (30°-60°)	1023.2	6.9	B2/2500		
BH (60°-80°)	480.0	3.2	B1/500		G1/500
BVH (80°-90°)	39.0	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°	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4
2.5°	4140.3	4105.8	4129.9	4087.0	4069.2	4022.0	3961.3	3920.5	3857.7	3776.0	3704.8
5°	4551.8	4527.7	4532.9	4486.9	4446.0	4367.5	4242.9	4173.8	4067.1	3902.7	3749.9
7.5°	4539.2	4567.5	4583.2	4622.9	4634.5	4627.1	4515.1	4418.8	4301.6	4054.5	3824.2
10°	4069.2	4122.5	4170.7	4306.8	4472.2	4681.6	4707.7	4650.2	4531.9	4248.2	3913.2
12.5°	3557.2	3598.1	3641.0	3804.3	4057.6	4476.4	4760.1	4795.7	4748.6	4439.7	4013.7
15°	3306.0	3324.8	3365.7	3473.5	3675.5	4140.3	4669.0	4825.0	4909.8	4642.8	4126.7
17.5°	3295.5	3303.9	3323.8	3381.4	3521.6	3880.7	4504.7	4766.4	5036.5	4857.4	4258.6
20°	3512.2	3490.2	3477.7	3476.6	3545.7	3793.8	4345.5	4672.1	5096.1	5077.3	4400.0
22.5°	3812.7	3820.0	3792.8	3725.8	3717.4	3855.6	4266.0	4576.9	5113.9	5272.0	4530.8
25°	4238.7	4275.4	4194.8	4067.1	4004.3	4034.6	4315.2	4547.6	5111.8	5434.3	4612.5
27.5°	4736.0	4764.3	4682.6	4515.1	4385.3	4312.0	4461.7	4634.5	5129.6	5574.5	4661.7
30°	5302.4	5311.8	5199.8	5023.9	4834.4	4677.4	4705.6	4813.5	5220.7	5758.8	4719.3
32.5°	5994.3	6034.1	5864.5	5586.1	5321.2	5120.2	5033.3	5102.4	5417.5	5976.5	4808.2
35°	6872.7	6886.3	6670.6	6271.8	5897.0	5618.5	5436.4	5473.0	5716.9	6281.2	4942.2
37.5°	7700.7	7714.3	7485.1	7114.5	6578.5	6197.4	5933.6	5916.9	6100.1	6711.4	5161.0
40°	8226.2	8265.0	8162.4	7930.0	7418.1	6904.1	6546.0	6488.5	6602.6	7238.0	5465.7
42.5°	8508.9	8525.7	8523.6	8553.9	8249.3	7738.4	7237.0	7121.8	7198.2	7806.5	5773.4
45°	8511.0	8552.9	8664.9	8957.0	8970.6	8652.3	8110.0	7930.0	7859.8	8379.1	6094.8
47.5°	8129.9	8175.0	8482.7	9057.5	9481.4	9553.7	9155.9	8794.7	8499.5	8872.2	6358.6
50°	6976.3	7089.4	7675.6	8692.1	9581.9	10276.0	10153.5	9663.6	9067.9	9253.2	6524.0
52.5°	5974.4	5970.3	6331.4	7659.9	9162.1	10594.3	11118.7	10557.6	9630.1	9495.0	6565.9
55°	4374.8	4398.9	4768.5	5858.2	8042.0	10286.5	11649.5	11380.4	10275.0	9623.8	6549.2
57.5°	2268.6	2387.9	2766.9	3738.3	6110.5	9227.0	11508.2	11687.2	10930.3	9714.9	6571.2
60°	1146.3	1123.3	1259.4	1784.9	3540.5	7206.6	10637.2	11207.7	11048.6	9786.1	6584.8
62.5°	765.3	759.0	721.3	827.0	1446.8	4268.1	9067.9	9867.7	10226.8	9618.6	6411.0
65°	662.7	650.1	581.0	576.8	702.4	1770.2	6646.5	7757.3	8452.4	8874.3	5995.4
67.5°	596.7	577.9	507.7	473.2	504.6	777.8	3745.7	5202.9	6241.4	7505.0	5084.6
70°	532.9	523.4	453.3	403.0	399.9	474.2	1379.8	2685.2	3819.0	5120.2	3717.4
72.5°	477.4	460.6	400.9	352.8	328.7	336.0	598.8	1034.3	1976.5	3194.0	2223.5
75°	413.5	400.9	348.6	300.4	271.1	246.0	365.4	478.4	901.3	1518.0	1050.0
77.5°	319.3	310.9	275.3	238.7	221.9	183.2	221.9	301.5	416.7	639.6	546.5
80°	185.3	190.5	205.2	186.3	163.3	130.9	144.5	173.8	250.2	346.5	309.9
82.5°	93.2	99.5	133.0	107.8	97.4	76.4	85.8	102.6	130.9	191.6	121.4
85°	7.3	7.3	24.1	27.2	33.5	27.2	34.5	41.9	59.7	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°	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4
2.5°	3656.7	3603.3	3539.4	3487.1	3406.5	3363.6	3309.1	3242.1	3214.9	3202.4	3195.0
5°	3664.0	3569.8	3433.7	3308.1	3168.9	3058.9	2936.5	2808.7	2735.5	2717.7	2705.1
7.5°	3691.2	3559.3	3342.6	3135.4	2876.8	2637.0	2403.6	2172.2	2053.9	2008.9	2004.7
10°	3728.9	3555.1	3250.5	2906.1	2469.5	2090.6	1817.4	1636.2	1559.8	1534.7	1526.3
12.5°	3776.0	3552.0	3129.1	2587.8	1999.5	1641.5	1485.5	1456.2	1466.7	1464.6	1464.6
15°	3835.7	3556.2	2982.5	2227.7	1617.4	1424.8	1427.9	1462.5	1494.9	1500.2	1500.2
17.5°	3900.6	3552.0	2770.0	1866.6	1388.1	1373.5	1421.6	1469.8	1499.1	1503.3	1503.3
20°	3970.8	3532.1	2502.0	1526.3	1287.6	1341.0	1393.4	1431.1	1448.9	1453.0	1453.0
22.5°	4012.6	3475.6	2211.0	1291.8	1223.8	1289.7	1324.3	1363.0	1365.1	1331.6	1330.6
25°	4006.3	3369.9	1879.1	1141.1	1155.7	1213.3	1257.3	1230.1	1196.6	1177.7	1174.6
27.5°	3966.6	3210.7	1541.0	1027.0	1075.1	1140.0	1126.4	1103.4	1095.0	1074.1	1072.0
30°	3916.3	3015.0	1237.4	938.0	991.4	1051.1	1030.1	1028.0	1019.6	996.6	996.6
32.5°	3868.2	2812.9	1008.1	872.0	938.0	942.2	971.5	973.6	969.4	929.6	925.4
35°	3854.5	2610.9	853.2	819.7	885.6	883.6	925.4	924.4	852.1	796.7	795.6
37.5°	3895.4	2405.7	761.1	776.8	813.4	840.6	874.1	813.4	789.3	755.8	753.7
40°	3982.3	2216.2	714.0	751.6	767.4	807.1	754.8	759.0	752.7	727.6	724.4
42.5°	4097.4	2055.0	687.8	743.3	741.2	751.6	694.1	710.8	720.2	701.4	698.3
45°	4208.4	1914.7	674.2	711.9	722.3	661.6	650.1	665.8	680.5	673.1	670.0
47.5°	4290.0	1793.3	666.9	668.9	698.3	631.3	612.4	619.7	637.5	640.7	639.6
50°	4315.2	1689.6	658.5	633.4	627.1	600.9	586.2	584.1	605.1	619.7	621.8
52.5°	4267.0	1597.5	636.5	601.9	571.6	575.8	570.5	560.1	581.0	600.9	603.0
55°	4195.8	1545.2	601.9	571.6	536.0	552.7	554.8	545.4	559.0	572.6	572.6
57.5°	4201.1	1575.5	568.4	543.3	504.6	526.6	538.1	533.9	533.9	544.4	545.4
60°	4235.6	1619.5	546.5	507.7	473.2	496.2	522.4	518.2	508.8	522.4	522.4
62.5°	4136.2	1560.9	531.8	473.2	439.7	466.9	498.3	496.2	485.7	507.7	509.8
65°	3843.0	1403.8	515.1	430.3	406.2	437.6	464.8	472.1	462.7	492.0	497.3
67.5°	3221.2	1180.9	482.6	389.4	372.7	402.0	428.2	438.6	431.3	465.9	470.0
70°	2401.5	955.8	431.3	344.4	331.9	358.0	382.1	386.3	387.3	428.2	432.4
72.5°	1531.6	743.3	363.3	294.2	284.7	304.6	322.4	339.2	346.5	385.2	384.2
75°	854.2	552.7	292.1	249.2	232.4	248.1	269.0	288.9	309.9	366.4	372.7
77.5°	492.0	388.4	231.4	200.0	180.1	196.8	214.6	242.9	305.7	354.9	348.6
80°	277.4	252.3	174.8	146.6	134.0	146.6	160.2	213.6	240.8	261.7	264.9
82.5°	129.8	141.3	119.3	90.0	90.0	98.4	111.0	165.4	182.2	148.7	129.8
85°	47.1	63.9	58.6	46.1	40.8	39.8	69.1	94.2	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)