

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: P633570

Luminaire Tested: GWS-SA2F-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633570
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-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12168.4 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

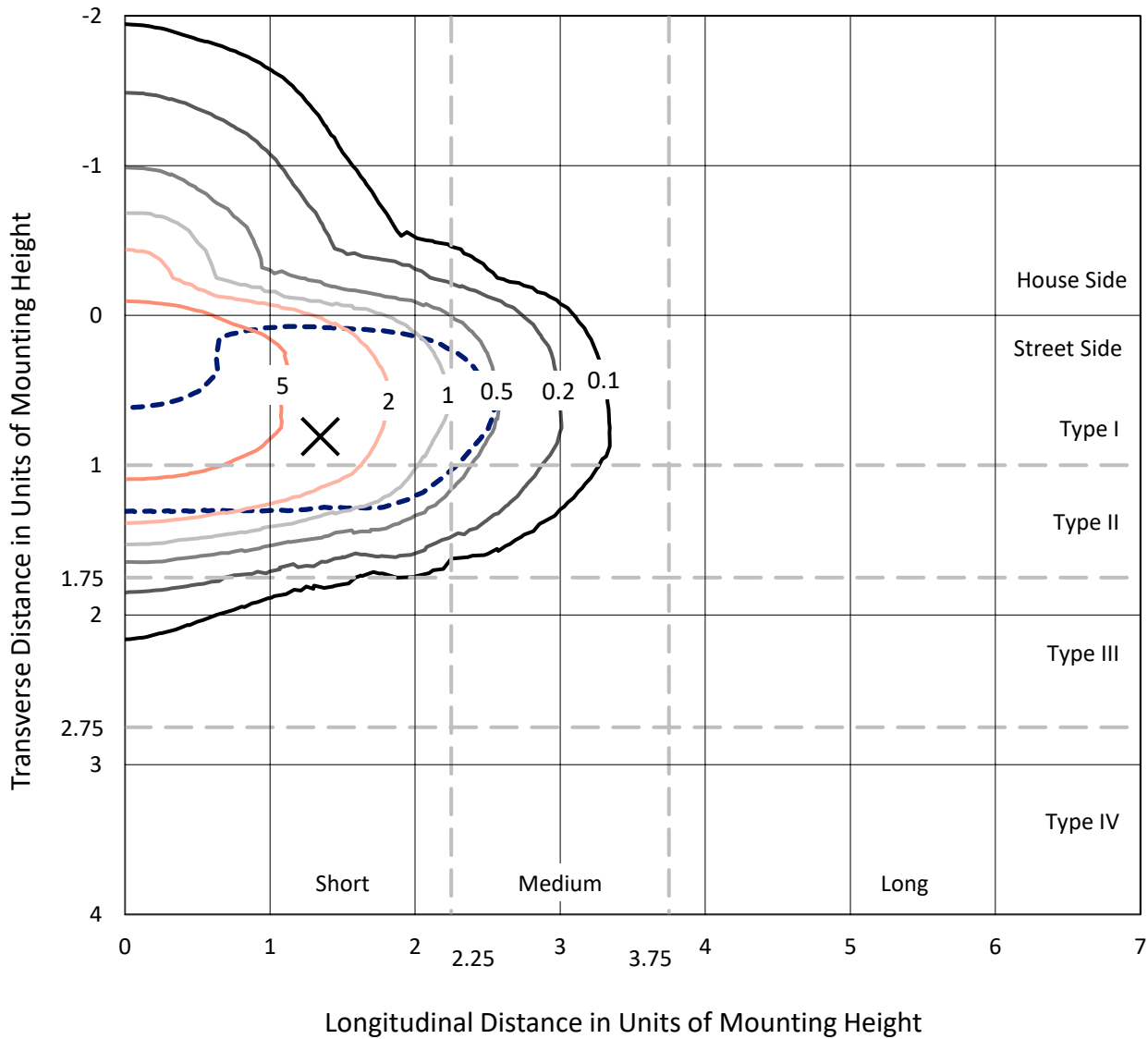
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633570
 CATALOG NUMBER: GWS-SA2F-722-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

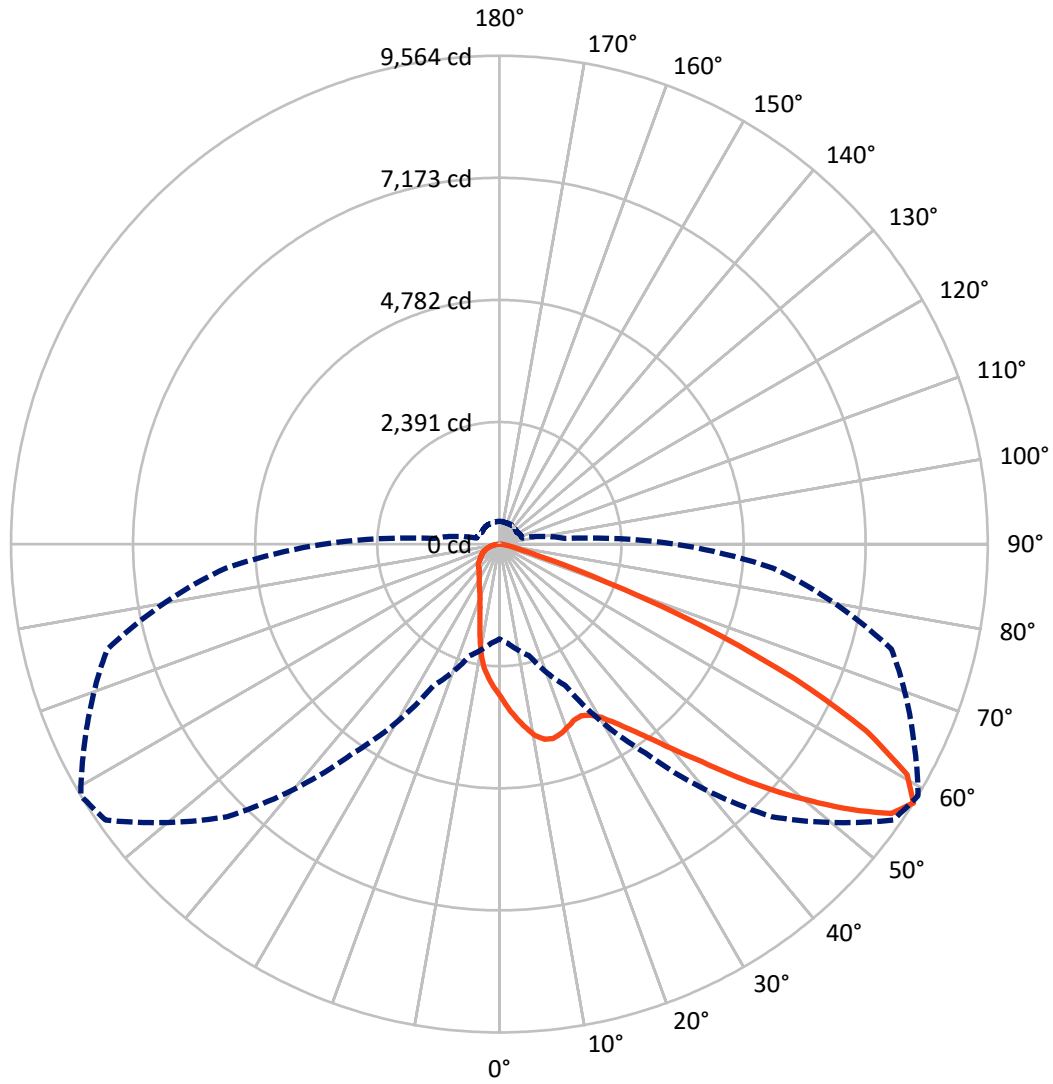
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

REPORT NUMBER: P633570
CATALOG NUMBER: GWS-SA2F-722-U-AFL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633570

CATALOG NUMBER: GWS-SA2F-722-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.5	0.0	1888.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10279.9	0.0	10279.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	12168.4	0.0	12168.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	2.3
10°-20°	702.8	5.8
20°-30°	1139.3	9.4
30°-40°	1832.7	15.1
40°-50°	2846.0	23.4
50°-60°	3065.5	25.2
60°-70°	1779.1	14.6
70°-80°	464.4	3.8
80°-90°	61.2	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°	12168.4	100.0
0°-180°	12168.4	100.0

Coefficient of Utilization



REPORT NUMBER: P633570

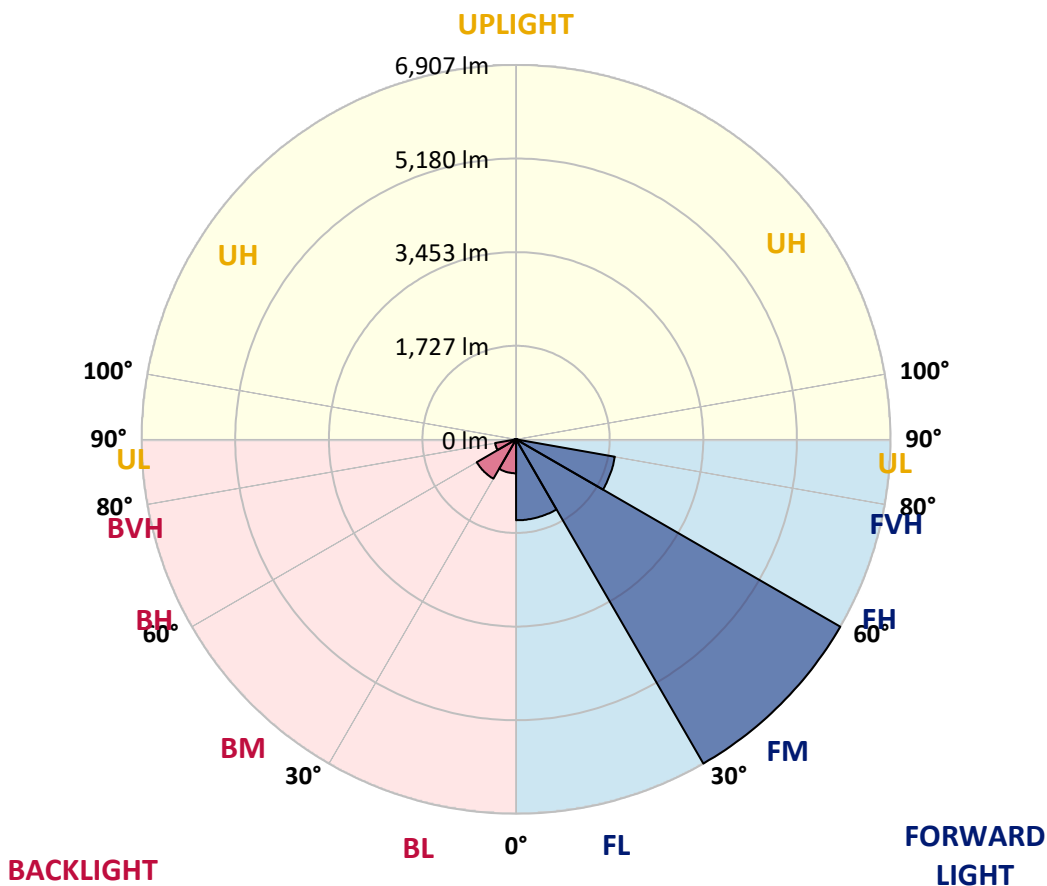
CATALOG NUMBER: GWS-SA2F-722-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.9	12.3			
FM (30°-60°)	6906.9	56.8			
FH (60°-80°)	1850.8	15.2			G2/5000
FVH (80°-90°)	29.3	0.2			G1/100
BL (0°-30°)	626.5	5.1	B2/1000		
BM (30°-60°)	837.3	6.9	B1/1000		
BH (60°-80°)	392.8	3.2	B1/500		G1/500
BVH (80°-90°)	31.9	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





REPORT NUMBER: P633570
 CATALOG NUMBER: GWS-SA2F-722-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	3388.0	3359.7	3379.4	3344.3	3329.8	3291.2	3241.5	3208.1	3156.7	3089.9	3031.6
5°	3724.7	3705.0	3709.2	3671.6	3638.1	3573.9	3472.0	3415.4	3328.0	3193.5	3068.5
7.5°	3714.4	3737.5	3750.4	3782.9	3792.3	3786.3	3694.7	3615.9	3519.9	3317.8	3129.3
10°	3329.8	3373.4	3412.8	3524.2	3659.6	3830.9	3852.3	3805.2	3708.4	3476.2	3202.1
12.5°	2910.9	2944.3	2979.4	3113.0	3320.3	3663.0	3895.1	3924.3	3885.7	3633.0	3284.4
15°	2705.3	2720.7	2754.1	2842.3	3007.7	3388.0	3820.6	3948.2	4017.6	3799.2	3376.9
17.5°	2696.7	2703.6	2719.8	2766.9	2881.7	3175.6	3686.1	3900.3	4121.3	3974.8	3484.8
20°	2874.0	2856.0	2845.8	2844.9	2901.4	3104.5	3555.9	3823.2	4170.1	4154.7	3600.5
22.5°	3119.9	3125.9	3103.6	3048.8	3041.9	3155.0	3490.8	3745.2	4184.7	4314.0	3707.5
25°	3468.5	3498.5	3432.6	3328.0	3276.6	3301.5	3531.1	3721.2	4183.0	4446.8	3774.3
27.5°	3875.4	3898.6	3831.7	3694.7	3588.5	3528.5	3651.0	3792.3	4197.5	4561.6	3814.6
30°	4338.9	4346.6	4254.9	4111.0	3956.0	3827.5	3850.6	3938.8	4272.1	4712.4	3861.7
32.5°	4905.1	4937.7	4798.9	4571.0	4354.3	4189.8	4118.7	4175.3	4433.1	4890.5	3934.5
35°	5623.8	5635.0	5458.5	5132.1	4825.4	4597.6	4448.5	4478.5	4678.1	5139.8	4044.2
37.5°	6301.4	6312.6	6125.0	5821.7	5383.1	5071.3	4855.4	4841.7	4991.6	5491.9	4223.2
40°	6731.5	6763.2	6679.2	6489.0	6070.1	5649.5	5356.6	5309.4	5402.8	5922.8	4472.5
42.5°	6962.8	6976.5	6974.8	6999.6	6750.3	6332.3	5921.9	5827.7	5890.2	6388.0	4724.4
45°	6964.5	6998.7	7090.4	7329.4	7340.5	7080.1	6636.4	6489.0	6431.6	6856.5	4987.4
47.5°	6652.7	6689.5	6941.3	7411.6	7758.6	7817.7	7492.2	7196.6	6955.0	7260.0	5203.2
50°	5708.6	5801.2	6280.9	7112.7	7840.8	8408.8	8308.5	7907.6	7420.2	7571.8	5338.6
52.5°	4888.8	4885.4	5181.0	6268.0	7497.3	8669.2	9098.4	8639.2	7880.2	7769.7	5372.8
55°	3579.9	3599.6	3902.0	4793.7	6580.7	8417.3	9532.7	9312.5	8407.9	7875.1	5359.1
57.5°	1856.3	1954.0	2264.1	3059.1	5000.2	7550.4	9417.0	9563.5	8944.2	7949.6	5377.1
60°	938.0	919.2	1030.5	1460.6	2897.2	5897.1	8704.3	9171.2	9041.0	8007.9	5388.3
62.5°	626.2	621.1	590.2	676.7	1183.9	3492.5	7420.2	8074.7	8368.5	7870.8	5246.1
65°	542.3	532.0	475.4	472.0	574.8	1448.6	5438.8	6347.7	6916.5	7261.7	4906.0
67.5°	488.3	472.9	415.5	387.2	412.9	636.5	3065.1	4257.5	5107.3	6141.2	4160.7
70°	436.0	428.3	370.9	329.8	327.2	388.1	1129.0	2197.3	3125.0	4189.8	3041.9
72.5°	390.6	376.9	328.1	288.7	269.0	275.0	490.0	846.4	1617.3	2613.6	1819.5
75°	338.4	328.1	285.3	245.9	221.9	201.3	299.0	391.5	737.6	1242.1	859.2
77.5°	261.3	254.4	225.3	195.3	181.6	149.9	181.6	246.7	340.9	523.4	447.2
80°	151.6	155.9	167.9	152.5	133.6	107.1	118.2	142.2	204.7	283.5	253.6
82.5°	76.2	81.4	108.8	88.2	79.7	62.5	70.2	84.0	107.1	156.8	99.4
85°	6.0	6.0	19.7	22.3	27.4	22.3	28.3	34.3	48.8	62.5	33.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.3	7.7	14.6	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633570
 CATALOG NUMBER: GWS-SA2F-722-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	2992.2	2948.6	2896.3	2853.5	2787.5	2752.4	2707.8	2653.0	2630.7	2620.5	2614.5
5°	2998.2	2921.1	2809.8	2707.0	2593.0	2503.1	2402.9	2298.4	2238.4	2223.8	2213.6
7.5°	3020.5	2912.6	2735.2	2565.6	2354.0	2157.9	1966.8	1777.5	1680.7	1643.9	1640.5
10°	3051.3	2909.1	2659.9	2378.0	2020.8	1710.7	1487.1	1338.9	1276.4	1255.8	1249.0
12.5°	3089.9	2906.6	2560.5	2117.6	1636.2	1343.2	1215.6	1191.6	1200.2	1198.4	1198.4
15°	3138.7	2910.0	2440.6	1822.9	1323.5	1165.9	1168.5	1196.7	1223.3	1227.6	1227.6
17.5°	3191.8	2906.6	2266.7	1527.4	1135.9	1123.9	1163.3	1202.7	1226.7	1230.1	1230.1
20°	3249.2	2890.3	2047.4	1249.0	1053.7	1097.4	1140.2	1171.0	1185.6	1189.0	1189.0
22.5°	3283.5	2844.0	1809.2	1057.1	1001.4	1055.4	1083.6	1115.3	1117.1	1089.6	1088.8
25°	3278.4	2757.5	1537.7	933.7	945.7	992.8	1028.8	1006.6	979.1	963.7	961.1
27.5°	3245.8	2627.3	1261.0	840.4	879.8	932.9	921.7	902.9	896.0	878.9	877.2
30°	3204.7	2467.1	1012.5	767.5	811.2	860.1	842.9	841.2	834.4	815.5	815.5
32.5°	3165.3	2301.8	824.9	713.6	767.5	771.0	795.0	796.7	793.2	760.7	757.3
35°	3154.1	2136.5	698.2	670.7	724.7	723.0	757.3	756.4	697.3	651.9	651.0
37.5°	3187.6	1968.6	622.8	635.6	665.6	687.9	715.3	665.6	645.9	618.5	616.8
40°	3258.7	1813.5	584.2	615.1	627.9	660.5	617.6	621.1	615.9	595.4	592.8
42.5°	3352.9	1681.6	562.8	608.2	606.5	615.1	568.0	581.7	589.4	573.9	571.4
45°	3443.7	1566.8	551.7	582.5	591.1	541.4	532.0	544.8	556.8	550.8	548.2
47.5°	3510.5	1467.4	545.7	547.4	571.4	516.6	501.1	507.1	521.7	524.3	523.4
50°	3531.1	1382.6	538.8	518.3	513.1	491.7	479.7	478.0	495.1	507.1	508.8
52.5°	3491.7	1307.2	520.8	492.6	467.7	471.2	466.9	458.3	475.4	491.7	493.4
55°	3433.4	1264.4	492.6	467.7	438.6	452.3	454.0	446.3	457.4	468.6	468.6
57.5°	3437.7	1289.2	465.2	444.6	412.9	430.9	440.3	436.9	436.9	445.5	446.3
60°	3466.0	1325.2	447.2	415.5	387.2	406.0	427.5	424.0	416.3	427.5	427.5
62.5°	3384.6	1277.2	435.2	387.2	359.8	382.1	407.8	406.0	397.5	415.5	417.2
65°	3144.7	1148.8	421.5	352.1	332.4	358.1	380.3	386.3	378.6	402.6	406.9
67.5°	2635.9	966.3	394.9	318.7	305.0	328.9	350.4	358.9	352.9	381.2	384.6
70°	1965.1	782.1	352.9	281.8	271.6	293.0	312.7	316.1	317.0	350.4	353.8
72.5°	1253.3	608.2	297.3	240.7	233.0	249.3	263.8	277.6	283.5	315.2	314.4
75°	699.0	452.3	239.0	203.9	190.2	203.0	220.2	236.4	253.6	299.8	305.0
77.5°	402.6	317.8	189.3	163.6	147.3	161.0	175.6	198.7	250.1	290.4	285.3
80°	227.0	206.4	143.1	119.9	109.6	119.9	131.1	174.8	197.0	214.2	216.7
82.5°	106.2	115.6	97.7	73.7	73.7	80.5	90.8	135.3	149.1	121.6	106.2
85°	38.5	52.3	48.0	37.7	33.4	32.6	56.5	77.1	48.0	42.8	36.8
87.5°	10.3	14.6	13.7	9.4	5.1	4.3	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)