

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: P632855

Luminaire Tested: GWS-SA2D-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632855
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-SA2D-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: 12162.4 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

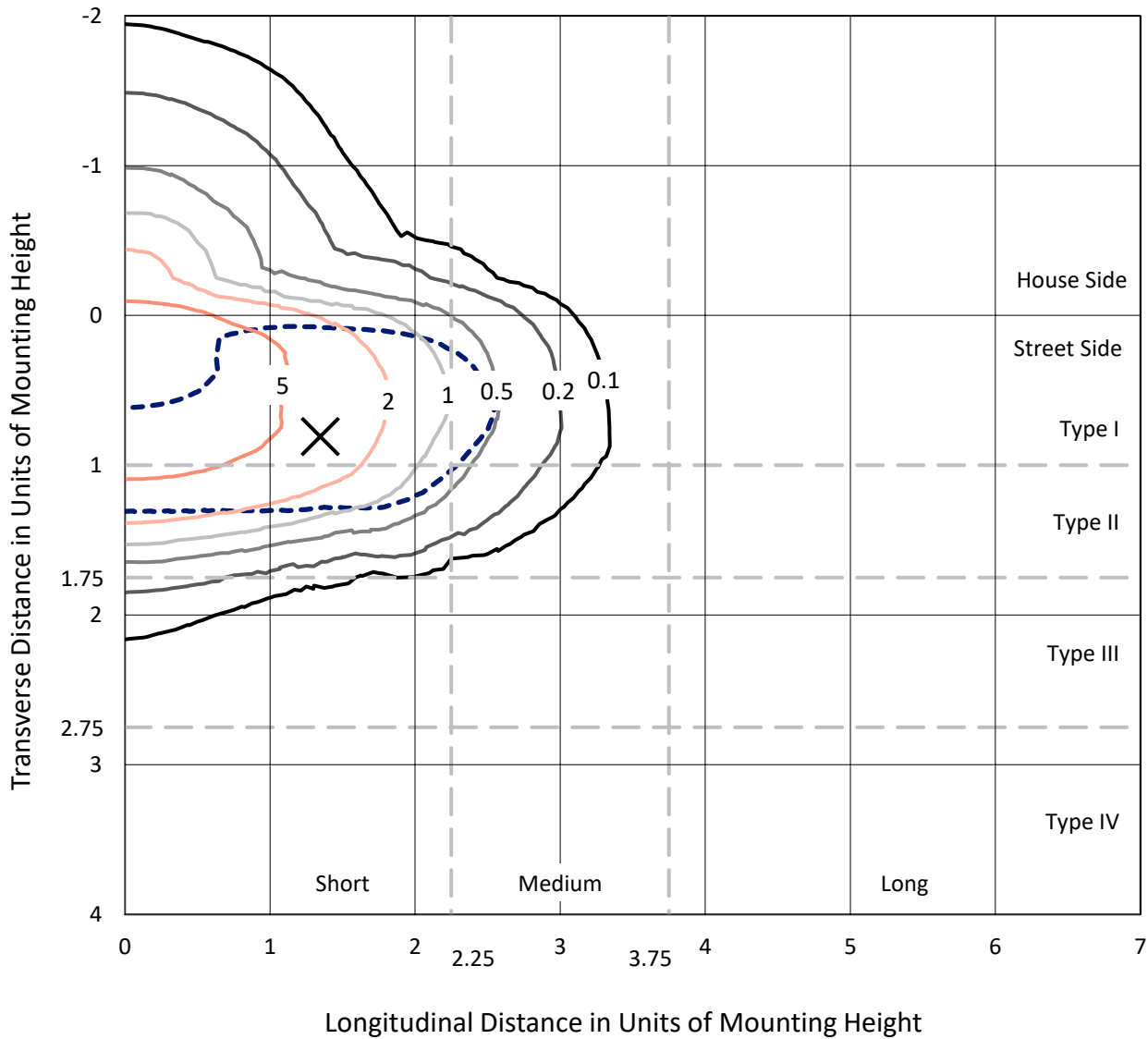
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

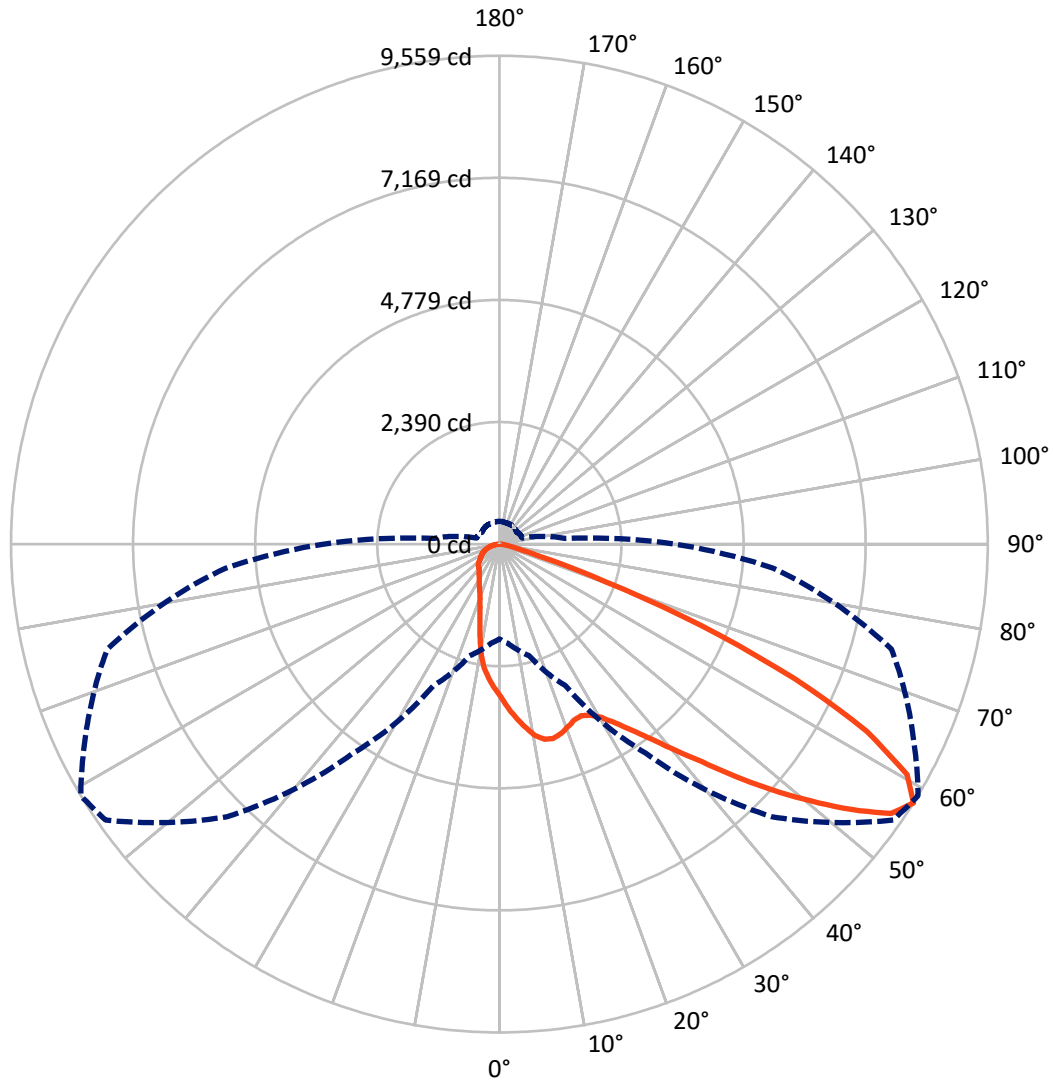
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 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	1887.5	0.0	1887.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10274.8	0.0	10274.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	12162.4	0.0	12162.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	2.3
10°-20°	702.5	5.8
20°-30°	1138.7	9.4
30°-40°	1831.8	15.1
40°-50°	2844.6	23.4
50°-60°	3064.0	25.2
60°-70°	1778.2	14.6
70°-80°	464.2	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°	12162.4	100.0
0°-180°	12162.4	100.0

Coefficient of Utilization



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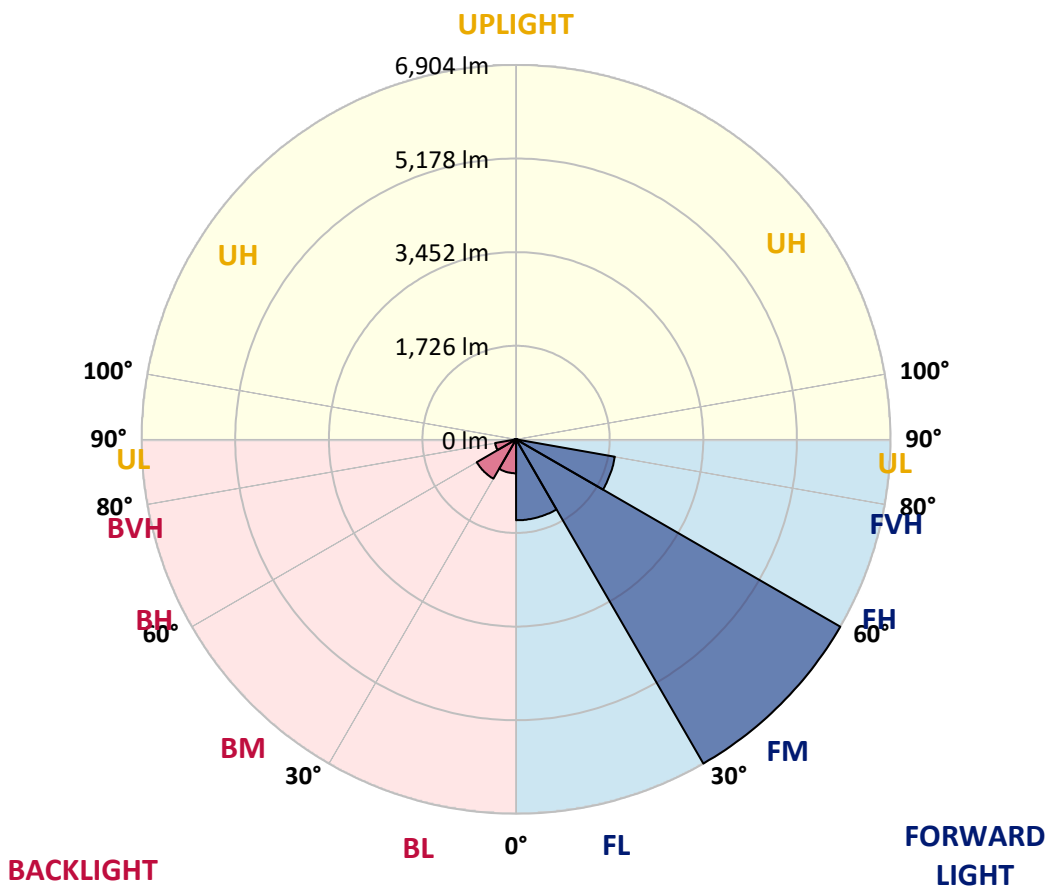
CATALOG NUMBER: GWS-SA2D-750-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.2	12.3			
FM (30°-60°)	6903.5	56.8			
FH (60°-80°)	1849.8	15.2			G2/5000
FVH (80°-90°)	29.3	0.2			G1/100
BL (0°-30°)	626.2	5.1	B2/1000		
BM (30°-60°)	836.9	6.9	B1/1000		
BH (60°-80°)	392.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6
2.5°	3386.3	3358.1	3377.8	3342.7	3328.1	3289.6	3239.9	3206.5	3155.2	3088.4	3030.1
5°	3722.8	3703.1	3707.4	3669.7	3636.4	3572.1	3470.2	3413.7	3326.4	3192.0	3067.0
7.5°	3712.6	3735.7	3748.5	3781.1	3790.5	3784.5	3692.9	3614.1	3518.2	3316.1	3127.8
10°	3328.1	3371.8	3411.2	3522.5	3657.8	3829.0	3850.4	3803.3	3706.6	3474.5	3200.5
12.5°	2909.4	2942.8	2977.9	3111.5	3318.7	3661.2	3893.2	3922.3	3883.8	3631.2	3282.7
15°	2703.9	2719.3	2752.7	2840.9	3006.2	3386.3	3818.7	3946.3	4015.7	3797.3	3375.2
17.5°	2695.4	2702.2	2718.5	2765.6	2880.3	3174.0	3684.3	3898.4	4119.3	3972.8	3483.1
20°	2872.6	2854.6	2844.4	2843.5	2900.0	3102.9	3554.2	3821.3	4168.1	4152.6	3598.7
22.5°	3118.3	3124.3	3102.1	3047.3	3040.4	3153.4	3489.1	3743.4	4182.6	4311.9	3705.7
25°	3466.8	3496.8	3430.9	3326.4	3275.0	3299.9	3529.3	3719.4	4180.9	4444.6	3772.5
27.5°	3873.5	3896.6	3829.9	3692.9	3586.7	3526.8	3649.2	3790.5	4195.5	4559.4	3812.7
30°	4336.7	4344.4	4252.8	4109.0	3954.0	3825.6	3848.7	3936.9	4270.0	4710.0	3859.8
32.5°	4902.7	4935.2	4796.5	4568.8	4352.1	4187.8	4116.7	4173.2	4430.9	4888.1	3932.6
35°	5621.1	5632.2	5455.8	5129.6	4823.1	4595.3	4446.3	4476.3	4675.8	5137.3	4042.2
37.5°	6298.3	6309.5	6121.9	5818.8	5380.5	5068.8	4853.0	4839.3	4989.2	5489.2	4221.1
40°	6728.1	6759.8	6675.9	6485.8	6067.1	5646.7	5353.9	5306.8	5400.2	5919.9	4470.3
42.5°	6959.3	6973.0	6971.3	6996.1	6747.0	6329.2	5919.0	5824.8	5887.3	6384.8	4722.0
45°	6961.0	6995.3	7086.9	7325.8	7336.9	7076.6	6633.1	6485.8	6428.5	6853.2	4984.9
47.5°	6649.4	6686.2	6937.9	7408.0	7754.8	7813.8	7488.5	7193.1	6951.6	7256.4	5200.7
50°	5705.8	5798.3	6277.8	7109.2	7836.9	8404.6	8304.4	7903.7	7416.5	7568.1	5335.9
52.5°	4886.4	4883.0	5178.4	6264.9	7493.6	8664.9	9093.9	8634.9	7876.3	7765.9	5370.2
55°	3578.1	3597.8	3900.1	4791.4	6577.5	8413.2	9528.0	9307.9	8403.8	7871.2	5356.5
57.5°	1855.4	1953.0	2263.0	3057.5	4997.7	7546.7	9412.4	9558.8	8939.8	7945.7	5374.5
60°	937.6	918.7	1030.0	1459.8	2895.7	5894.2	8700.0	9166.7	9036.5	8003.9	5385.6
62.5°	625.9	620.8	589.9	676.4	1183.3	3490.8	7416.5	8070.7	8364.4	7866.9	5243.5
65°	542.0	531.7	475.2	471.8	574.5	1447.9	5436.1	6344.6	6913.1	7258.1	4903.6
67.5°	488.0	472.6	415.3	387.0	412.7	636.2	3063.5	4255.4	5104.8	6138.2	4158.6
70°	435.8	428.1	370.7	329.6	327.1	387.9	1128.5	2196.2	3123.5	4187.8	3040.4
72.5°	390.4	376.7	327.9	288.5	268.9	274.8	489.8	845.9	1616.5	2612.3	1818.6
75°	338.2	327.9	285.1	245.7	221.8	201.2	298.8	391.3	737.2	1241.5	858.8
77.5°	261.1	254.3	225.2	195.2	181.5	149.8	181.5	246.6	340.8	523.1	446.9
80°	151.6	155.8	167.8	152.4	133.6	107.0	118.2	142.1	204.6	283.4	253.4
82.5°	76.2	81.3	108.7	88.2	79.6	62.5	70.2	83.9	107.0	156.7	99.3
85°	6.0	6.0	19.7	22.3	27.4	22.3	28.3	34.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6
2.5°	2990.8	2947.1	2894.9	2852.1	2786.1	2751.0	2706.5	2651.7	2629.4	2619.2	2613.2
5°	2996.8	2919.7	2808.4	2705.6	2591.8	2501.9	2401.7	2297.2	2237.3	2222.7	2212.5
7.5°	3019.0	2911.1	2733.9	2564.4	2352.9	2156.8	1965.9	1776.6	1679.9	1643.1	1639.7
10°	3049.8	2907.7	2658.6	2376.9	2019.8	1709.9	1486.4	1338.3	1275.8	1255.2	1248.4
12.5°	3088.4	2905.1	2559.2	2116.6	1635.4	1342.5	1215.0	1191.0	1199.6	1197.8	1197.8
15°	3137.2	2908.6	2439.4	1822.0	1322.9	1165.3	1167.9	1196.1	1222.7	1227.0	1227.0
17.5°	3190.3	2905.1	2265.5	1526.6	1135.3	1123.4	1162.7	1202.1	1226.1	1229.5	1229.5
20°	3247.6	2888.9	2046.4	1248.4	1053.1	1096.8	1139.6	1170.4	1185.0	1188.4	1188.4
22.5°	3281.9	2842.6	1808.3	1056.6	1000.9	1054.9	1083.1	1114.8	1116.5	1089.1	1088.3
25°	3276.7	2756.2	1536.9	933.3	945.3	992.4	1028.3	1006.1	978.7	963.2	960.7
27.5°	3244.2	2626.0	1260.4	839.9	879.3	932.4	921.3	902.5	895.6	878.5	876.8
30°	3203.1	2465.9	1012.0	767.2	810.8	859.6	842.5	840.8	834.0	815.1	815.1
32.5°	3163.7	2300.7	824.5	713.2	767.2	770.6	794.6	796.3	792.9	760.3	756.9
35°	3152.6	2135.4	697.8	670.4	724.4	722.6	756.9	756.0	697.0	651.6	650.7
37.5°	3186.0	1967.6	622.5	635.3	665.3	687.5	714.9	665.3	645.6	618.2	616.5
40°	3257.0	1812.6	583.9	614.8	627.6	660.1	617.3	620.8	615.6	595.1	592.5
42.5°	3351.2	1680.8	562.5	607.9	606.2	614.8	567.7	581.4	589.1	573.7	571.1
45°	3442.0	1566.0	551.4	582.2	590.8	541.1	531.7	544.6	556.5	550.5	548.0
47.5°	3508.8	1466.7	545.4	547.1	571.1	516.3	500.9	506.9	521.4	524.0	523.1
50°	3529.3	1381.9	538.6	518.0	512.9	491.5	479.5	477.8	494.9	506.9	508.6
52.5°	3489.9	1306.6	520.6	492.3	467.5	470.9	466.6	458.1	475.2	491.5	493.2
55°	3431.7	1263.8	492.3	467.5	438.4	452.1	453.8	446.1	457.2	468.4	468.4
57.5°	3436.0	1288.6	464.9	444.4	412.7	430.7	440.1	436.7	436.7	445.2	446.1
60°	3464.3	1324.6	446.9	415.3	387.0	405.8	427.3	423.8	416.1	427.3	427.3
62.5°	3382.9	1276.6	435.0	387.0	359.6	381.9	407.6	405.8	397.3	415.3	417.0
65°	3143.2	1148.2	421.3	351.9	332.2	357.9	380.2	386.2	378.4	402.4	406.7
67.5°	2634.6	965.8	394.7	318.5	304.8	328.8	350.2	358.8	352.8	381.0	384.4
70°	1964.2	781.7	352.8	281.7	271.4	292.8	312.5	315.9	316.8	350.2	353.6
72.5°	1252.6	607.9	297.1	240.6	232.9	249.2	263.7	277.4	283.4	315.1	314.2
75°	698.7	452.1	238.9	203.8	190.1	202.9	220.0	236.3	253.4	299.7	304.8
77.5°	402.4	317.7	189.2	163.5	147.3	161.0	175.5	198.6	250.0	290.3	285.1
80°	226.9	206.3	143.0	119.9	109.6	119.9	131.0	174.7	196.9	214.1	216.6
82.5°	106.2	115.6	97.6	73.6	73.6	80.5	90.8	135.3	149.0	121.6	106.2
85°	38.5	52.2	47.9	37.7	33.4	32.5	56.5	77.1	47.9	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)