

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: P632800

Luminaire Tested: GWS-SA2D-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632800
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-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11890 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

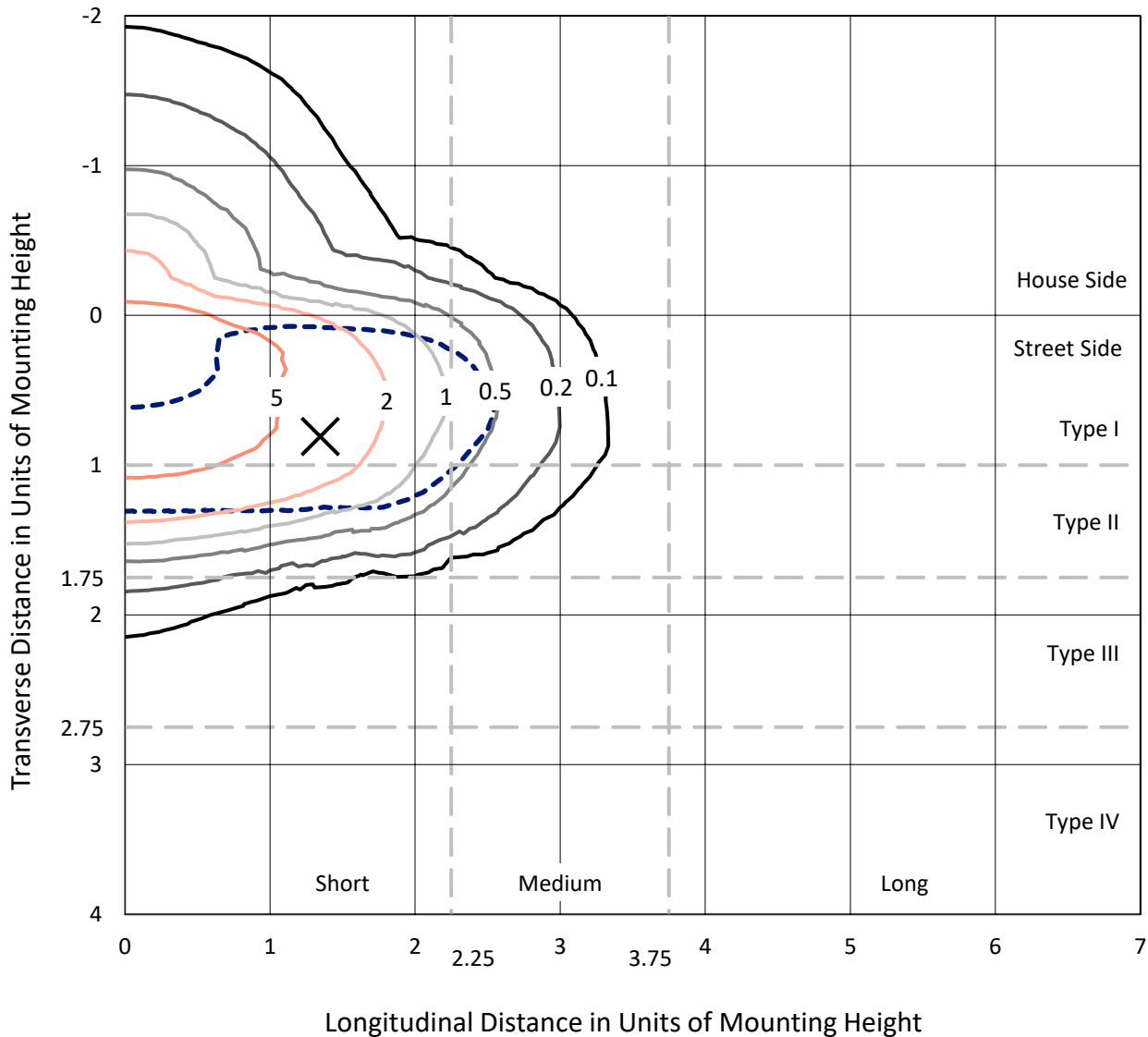
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

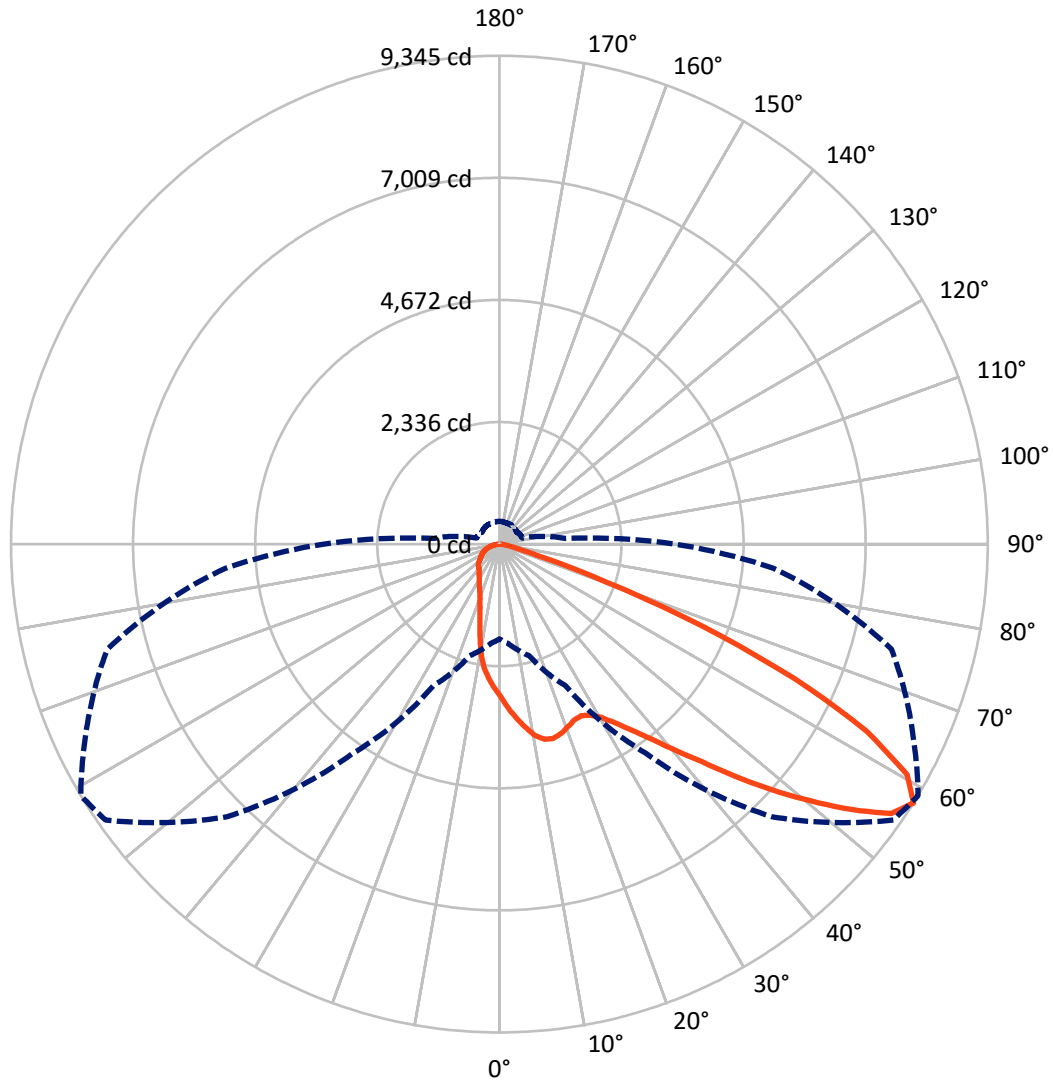
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 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	1845.3	0.0	1845.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10044.7	0.0	10044.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	11890.0	0.0	11890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	2.3
10°-20°	686.7	5.8
20°-30°	1113.2	9.4
30°-40°	1790.8	15.1
40°-50°	2780.9	23.4
50°-60°	2995.4	25.2
60°-70°	1738.4	14.6
70°-80°	453.8	3.8
80°-90°	59.8	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°	11890.0	100.0
0°-180°	11890.0	100.0

Coefficient of Utilization



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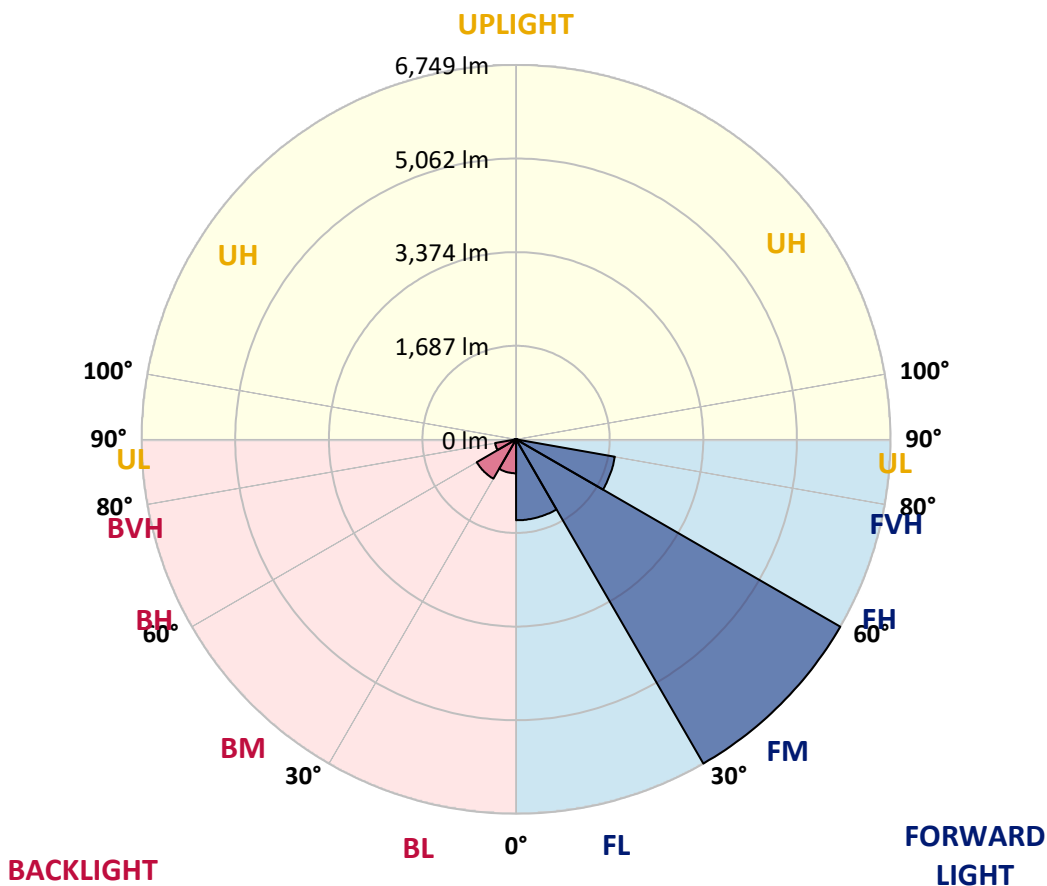
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.8	12.3			
FM (30°-60°)	6748.9	56.8			
FH (60°-80°)	1808.4	15.2			G2/5000
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	612.2	5.1	B2/1000		
BM (30°-60°)	818.1	6.9	B1/1000		
BH (60°-80°)	383.8	3.2	B1/500		G1/500
BVH (80°-90°)	31.2	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°	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8
2.5°	3310.5	3282.9	3302.1	3267.8	3253.6	3215.9	3167.4	3134.7	3084.5	3019.2	2962.3
5°	3639.4	3620.2	3624.4	3587.6	3554.9	3492.1	3392.5	3337.3	3251.9	3120.5	2998.3
7.5°	3629.4	3652.0	3664.6	3696.4	3705.6	3699.7	3610.2	3533.1	3439.4	3241.9	3057.7
10°	3253.6	3296.3	3334.8	3443.6	3575.8	3743.2	3764.2	3718.1	3623.5	3396.7	3128.9
12.5°	2844.3	2876.9	2911.2	3041.8	3244.4	3579.2	3806.0	3834.5	3796.8	3549.9	3209.2
15°	2643.4	2658.4	2691.1	2777.3	2938.8	3310.5	3733.2	3857.9	3925.7	3712.3	3299.6
17.5°	2635.0	2641.7	2657.6	2703.6	2815.8	3102.9	3601.8	3811.0	4027.0	3883.9	3405.1
20°	2808.3	2790.7	2780.6	2779.8	2835.1	3033.4	3474.6	3735.7	4074.7	4059.6	3518.1
22.5°	3048.5	3054.4	3032.6	2979.0	2972.3	3082.8	3410.9	3659.5	4088.9	4215.3	3622.7
25°	3389.2	3418.5	3354.0	3251.9	3201.7	3226.0	3450.3	3636.1	4087.3	4345.1	3688.0
27.5°	3786.8	3809.4	3744.1	3610.2	3506.4	3447.8	3567.5	3705.6	4101.5	4457.2	3727.3
30°	4239.6	4247.1	4157.6	4017.0	3865.4	3739.9	3762.5	3848.7	4174.3	4604.6	3773.4
32.5°	4792.9	4824.7	4689.1	4466.4	4254.7	4094.0	4024.5	4079.7	4331.7	4778.7	3844.5
35°	5495.2	5506.0	5333.6	5014.7	4715.0	4492.4	4346.7	4376.0	4571.1	5022.2	3951.7
37.5°	6157.3	6168.1	5984.8	5688.5	5260.0	4955.3	4744.3	4730.9	4877.4	5366.3	4126.6
40°	6577.5	6608.4	6526.4	6340.6	5931.3	5520.3	5234.0	5188.0	5279.2	5787.3	4370.2
42.5°	6803.5	6816.9	6815.2	6839.5	6595.9	6187.4	5786.5	5694.4	5755.5	6241.8	4616.3
45°	6805.1	6838.6	6928.2	7161.7	7172.6	6918.1	6484.5	6340.6	6284.5	6699.7	4873.2
47.5°	6500.4	6536.4	6782.5	7242.1	7581.1	7638.8	7320.7	7032.0	6795.9	7093.9	5084.2
50°	5578.0	5668.4	6137.2	6949.9	7661.4	8216.4	8118.4	7726.7	7250.4	7398.6	5216.4
52.5°	4777.0	4773.6	5062.4	6124.6	7325.8	8470.8	8890.2	8441.5	7699.9	7591.9	5249.9
55°	3498.0	3517.2	3812.7	4684.1	6430.1	8224.8	9314.6	9099.5	8215.5	7694.9	5236.5
57.5°	1813.9	1909.3	2212.3	2989.1	4885.8	7377.7	9201.6	9344.7	8739.5	7767.7	5254.1
60°	916.6	898.1	1007.0	1427.2	2830.9	5762.2	8505.2	8961.3	8834.1	7824.6	5265.0
62.5°	611.9	606.9	576.7	661.3	1156.8	3412.6	7250.4	7889.9	8177.0	7690.7	5126.0
65°	529.8	519.8	464.6	461.2	561.7	1415.4	5314.4	6202.5	6758.3	7095.6	4793.7
67.5°	477.1	462.0	406.0	378.3	403.5	621.9	2994.9	4160.1	4990.4	6000.7	4065.5
70°	426.1	418.5	362.4	322.3	319.7	379.2	1103.2	2147.0	3053.5	4094.0	2972.3
72.5°	381.7	368.3	320.6	282.1	262.8	268.7	478.8	827.0	1580.3	2553.8	1777.9
75°	330.6	320.6	278.7	240.2	216.8	196.7	292.1	382.5	720.7	1213.7	839.6
77.5°	255.3	248.6	220.1	190.8	177.5	146.5	177.5	241.1	333.1	511.4	436.9
80°	148.2	152.3	164.1	149.0	130.6	104.6	115.5	138.9	200.1	277.1	247.8
82.5°	74.5	79.5	106.3	86.2	77.8	61.1	68.6	82.0	104.6	153.2	97.1
85°	5.9	5.9	19.3	21.8	26.8	21.8	27.6	33.5	47.7	61.1	32.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.2	7.5	14.2	9.2
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°	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8	2918.8
2.5°	2923.8	2881.1	2830.0	2788.2	2723.7	2689.4	2645.9	2592.3	2570.5	2560.5	2554.6
5°	2929.6	2854.3	2745.5	2645.0	2533.7	2445.8	2347.9	2245.8	2187.2	2173.0	2162.9
7.5°	2951.4	2845.9	2672.7	2506.9	2300.2	2108.5	1921.8	1736.9	1642.3	1606.3	1602.9
10°	2981.5	2842.6	2599.0	2323.6	1974.6	1671.6	1453.1	1308.3	1247.2	1227.1	1220.4
12.5°	3019.2	2840.1	2501.9	2069.2	1598.7	1312.5	1187.8	1164.3	1172.7	1171.0	1171.0
15°	3066.9	2843.4	2384.7	1781.2	1293.2	1139.2	1141.7	1169.3	1195.3	1199.5	1199.5
17.5°	3118.8	2840.1	2214.8	1492.4	1109.9	1098.2	1136.7	1175.2	1198.6	1202.0	1202.0
20°	3174.9	2824.2	2000.5	1220.4	1029.6	1072.2	1114.1	1144.2	1158.5	1161.8	1161.8
22.5°	3208.4	2779.0	1767.8	1032.9	978.5	1031.2	1058.9	1089.8	1091.5	1064.7	1063.9
25°	3203.4	2694.4	1502.5	912.4	924.1	970.1	1005.3	983.5	956.7	941.7	939.2
27.5°	3171.5	2567.2	1232.1	821.1	859.6	911.5	900.7	882.2	875.5	858.8	857.1
30°	3131.4	2410.7	989.4	750.0	792.7	840.4	823.6	822.0	815.3	796.9	796.9
32.5°	3092.9	2249.1	806.1	697.3	750.0	753.3	776.8	778.4	775.1	743.3	739.9
35°	3082.0	2087.6	682.2	655.4	708.1	706.5	739.9	739.1	681.4	637.0	636.2
37.5°	3114.6	1923.5	608.5	621.1	650.4	672.1	698.9	650.4	631.1	604.3	602.7
40°	3184.1	1772.0	570.9	601.0	613.6	645.4	603.5	606.9	601.8	581.7	579.2
42.5°	3276.2	1643.1	549.9	594.3	592.6	601.0	555.0	568.3	575.9	560.8	558.3
45°	3364.9	1530.9	539.1	569.2	577.6	529.0	519.8	532.4	544.1	538.2	535.7
47.5°	3430.2	1433.8	533.2	534.9	558.3	504.7	489.7	495.5	509.8	512.3	511.4
50°	3450.3	1351.0	526.5	506.4	501.4	480.5	468.7	467.1	483.8	495.5	497.2
52.5°	3411.8	1277.3	508.9	481.3	457.0	460.4	456.2	447.8	464.6	480.5	482.1
55°	3354.9	1235.5	481.3	457.0	428.6	442.0	443.6	436.1	447.0	457.9	457.9
57.5°	3359.0	1259.7	454.5	434.4	403.5	421.0	430.2	426.9	426.9	435.3	436.1
60°	3386.7	1294.9	436.9	406.0	378.3	396.8	417.7	414.3	406.8	417.7	417.7
62.5°	3307.1	1248.0	425.2	378.3	351.6	373.3	398.4	396.8	388.4	406.0	407.6
65°	3072.8	1122.5	411.8	344.0	324.8	349.9	371.6	377.5	370.0	393.4	397.6
67.5°	2575.6	944.2	385.9	311.4	298.0	321.4	342.3	350.7	344.9	372.5	375.8
70°	1920.2	764.2	344.9	275.4	265.3	286.3	305.5	308.9	309.7	342.3	345.7
72.5°	1224.6	594.3	290.5	235.2	227.7	243.6	257.8	271.2	277.1	308.0	307.2
75°	683.0	442.0	233.5	199.2	185.8	198.4	215.1	231.0	247.8	293.0	298.0
77.5°	393.4	310.5	185.0	159.9	144.0	157.4	171.6	194.2	244.4	283.8	278.7
80°	221.8	201.7	139.8	117.2	107.1	117.2	128.1	170.8	192.5	209.3	211.8
82.5°	103.8	113.0	95.4	72.0	72.0	78.7	88.7	132.3	145.6	118.9	103.8
85°	37.7	51.1	46.9	36.8	32.6	31.8	55.2	75.3	46.9	41.9	36.0
87.5°	10.0	14.2	13.4	9.2	5.0	4.2	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)