

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: P632690

Luminaire Tested: GWS-SA2D-730-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632690
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-730-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10827.2 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

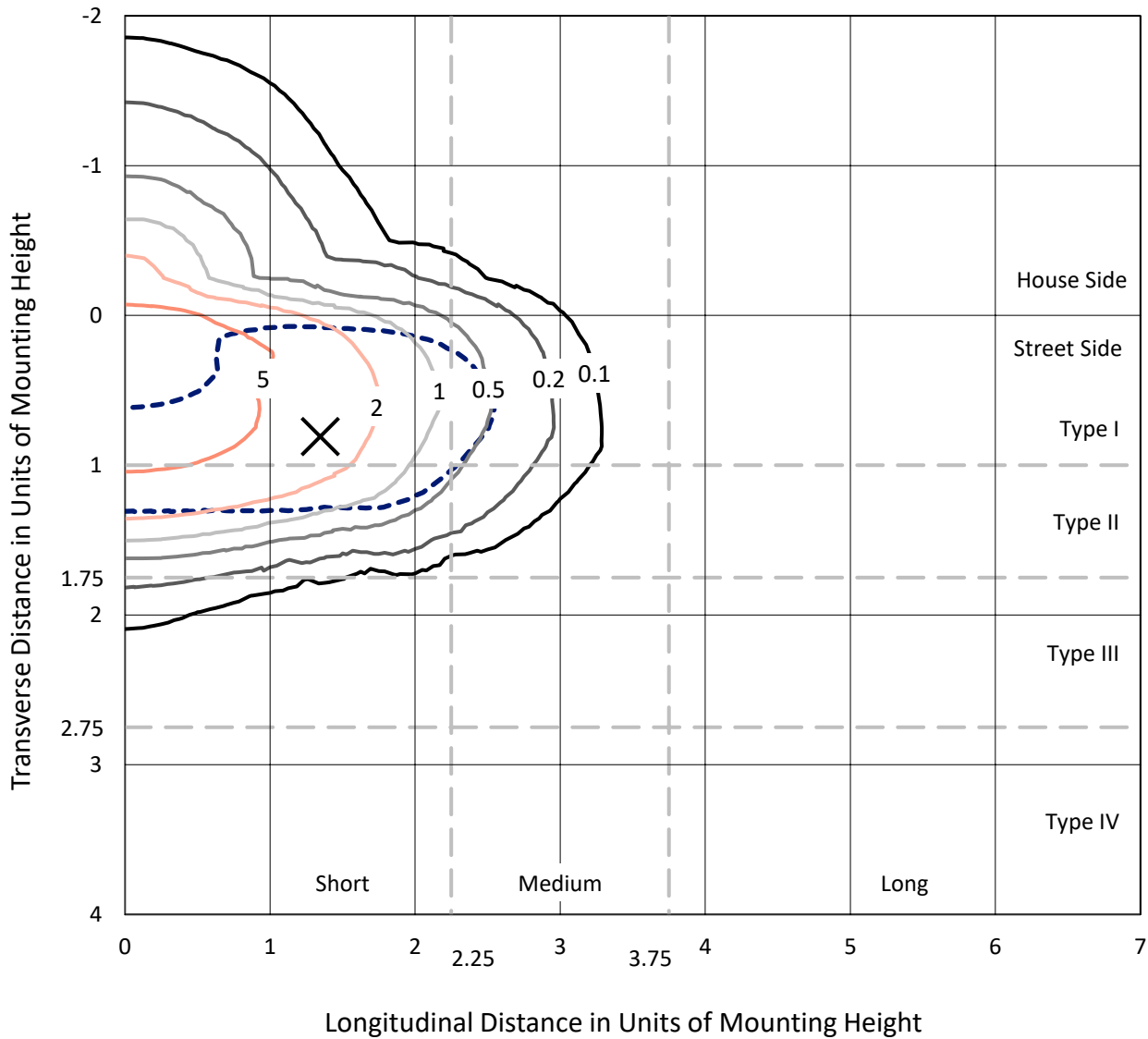
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

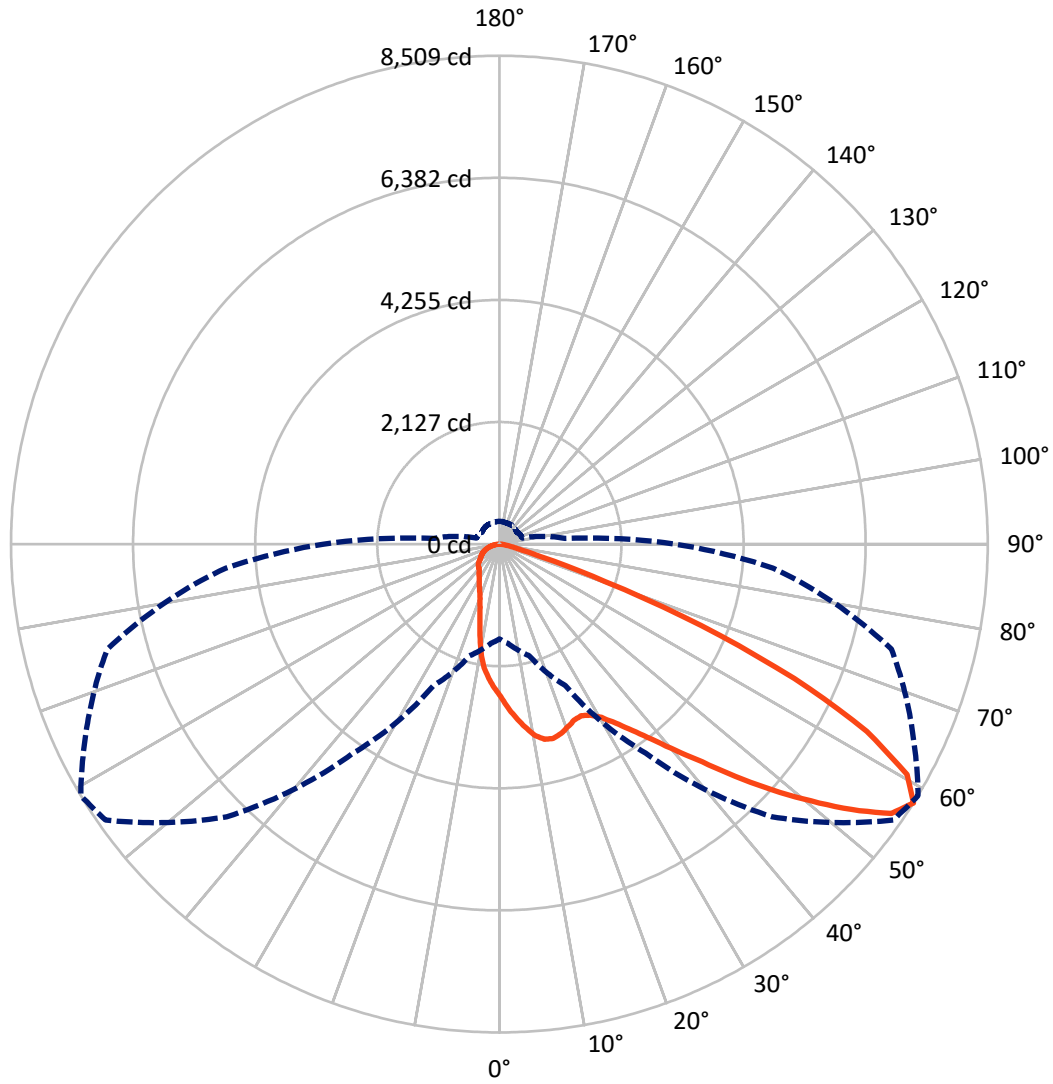
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	1680.3	0.0	1680.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9146.9	0.0	9146.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	10827.2	0.0	10827.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	2.3
10°-20°	625.4	5.8
20°-30°	1013.7	9.4
30°-40°	1630.7	15.1
40°-50°	2532.3	23.4
50°-60°	2727.6	25.2
60°-70°	1583.0	14.6
70°-80°	413.3	3.8
80°-90°	54.4	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°	10827.2	100.0
0°-180°	10827.2	100.0

Coefficient of Utilization



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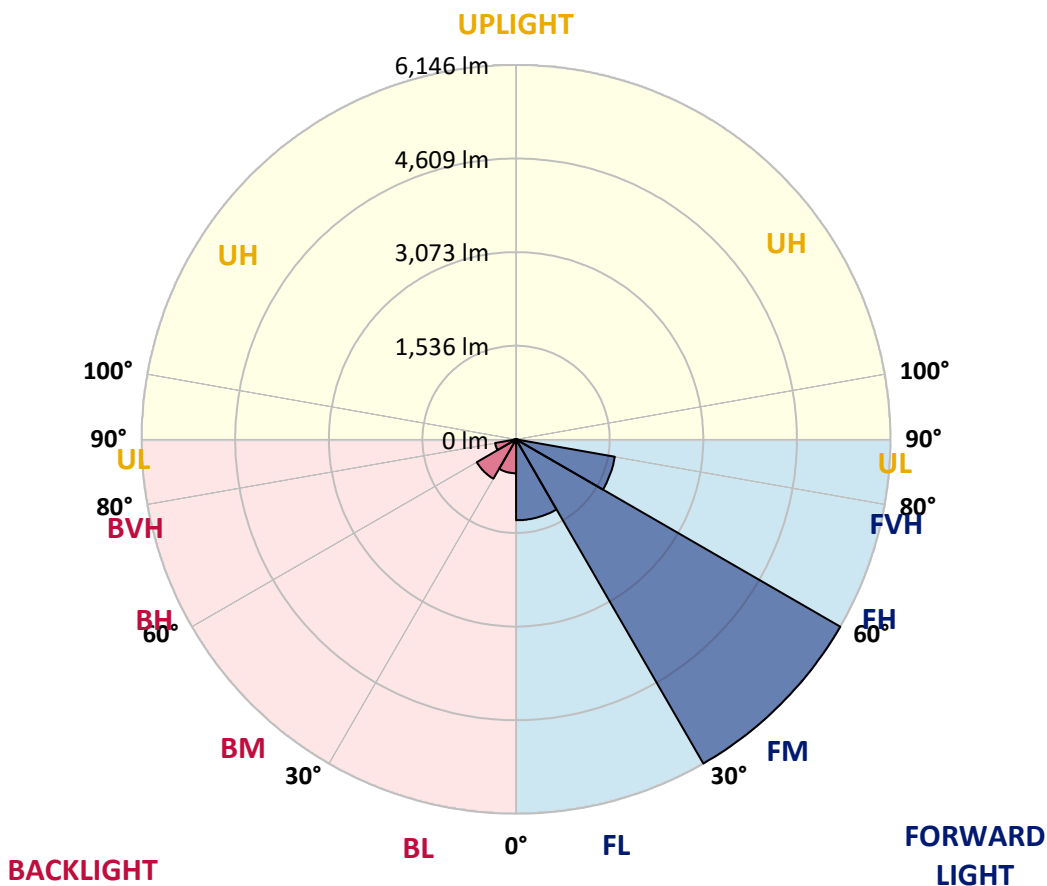
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.4	12.3			
FM (30°-60°)	6145.6	56.8			
FH (60°-80°)	1646.8	15.2			G1/1800
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	557.5	5.1	B2/1000		
BM (30°-60°)	745.0	6.9	B1/1000		
BH (60°-80°)	349.5	3.2	B1/500		G1/500
BVH (80°-90°)	28.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9
2.5°	3014.6	2989.4	3007.0	2975.7	2962.7	2928.4	2884.2	2854.5	2808.8	2749.3	2697.5
5°	3314.1	3296.6	3300.4	3266.9	3237.1	3180.0	3089.3	3039.0	2961.2	2841.6	2730.3
7.5°	3305.0	3325.6	3337.0	3366.0	3374.3	3369.0	3287.5	3217.3	3132.0	2952.1	2784.4
10°	2962.7	3001.6	3036.7	3135.8	3256.2	3408.6	3427.7	3385.8	3299.7	3093.1	2849.2
12.5°	2590.0	2619.8	2651.0	2769.9	2954.4	3259.3	3465.8	3491.7	3457.4	3232.6	2922.4
15°	2407.1	2420.8	2450.5	2529.0	2676.2	3014.6	3399.5	3513.1	3574.8	3380.4	3004.7
17.5°	2399.5	2405.6	2420.0	2462.0	2564.1	2825.5	3279.8	3470.4	3667.0	3536.7	3100.7
20°	2557.2	2541.2	2532.1	2531.3	2581.6	2762.3	3164.0	3401.8	3710.5	3696.8	3203.6
22.5°	2776.0	2781.3	2761.5	2712.7	2706.6	2807.3	3106.0	3332.4	3723.4	3838.5	3298.9
25°	3086.2	3112.9	3054.2	2961.2	2915.5	2937.6	3141.9	3311.1	3721.9	3956.7	3358.3
27.5°	3448.3	3468.9	3409.4	3287.5	3192.9	3139.6	3248.6	3374.3	3734.9	4058.8	3394.2
30°	3860.6	3867.5	3785.9	3657.9	3519.9	3405.6	3426.2	3504.7	3801.2	4193.0	3436.1
32.5°	4364.5	4393.4	4270.0	4067.2	3874.4	3728.0	3664.8	3715.1	3944.5	4351.5	3500.9
35°	5004.0	5013.9	4856.9	4566.5	4293.6	4090.8	3958.2	3984.9	4162.5	4573.3	3598.4
37.5°	5606.9	5616.8	5449.9	5180.0	4789.8	4512.3	4320.3	4308.1	4441.5	4886.6	3757.7
40°	5989.5	6017.7	5943.0	5773.8	5401.1	5026.8	4766.2	4724.2	4807.3	5270.0	3979.6
42.5°	6195.3	6207.5	6206.0	6228.1	6006.3	5634.3	5269.2	5185.4	5241.0	5683.9	4203.6
45°	6196.8	6227.3	6308.9	6521.6	6531.5	6299.7	5904.9	5773.8	5722.7	6100.8	4437.6
47.5°	5919.4	5952.2	6176.3	6594.7	6903.4	6956.0	6666.4	6403.4	6188.5	6459.8	4629.7
50°	5079.4	5161.8	5588.6	6328.7	6976.6	7482.0	7392.8	7036.1	6602.3	6737.3	4750.2
52.5°	4350.0	4346.9	4609.9	5577.2	6670.9	7713.7	8095.5	7687.0	7011.7	6913.3	4780.6
55°	3185.3	3202.8	3471.9	4265.4	5855.4	7489.6	8482.0	8286.1	7481.2	7007.1	4768.4
57.5°	1651.7	1738.6	2014.5	2721.9	4449.1	6718.2	8379.1	8509.4	7958.3	7073.4	4784.5
60°	834.6	817.9	917.0	1299.6	2577.8	5247.1	7744.9	8160.3	8044.5	7125.2	4794.4
62.5°	557.2	552.6	525.2	602.2	1053.4	3107.6	6602.3	7184.7	7446.1	7003.3	4667.8
65°	482.5	473.3	423.0	420.0	511.4	1288.9	4839.3	5648.1	6154.2	6461.3	4365.2
67.5°	434.5	420.7	369.7	344.5	367.4	566.3	2727.2	3788.2	4544.4	5464.4	3702.1
70°	388.0	381.1	330.0	293.5	291.2	345.3	1004.6	1955.1	2780.6	3728.0	2706.6
72.5°	347.6	335.4	291.9	256.9	239.3	244.7	436.0	753.1	1439.1	2325.5	1619.0
75°	301.1	291.9	253.8	218.8	197.4	179.1	266.0	348.3	656.3	1105.2	764.5
77.5°	232.5	226.4	200.5	173.8	161.6	133.4	161.6	219.5	303.4	465.7	397.9
80°	134.9	138.7	149.4	135.7	118.9	95.3	105.2	126.5	182.2	252.3	225.6
82.5°	67.8	72.4	96.8	78.5	70.9	55.6	62.5	74.7	95.3	139.5	88.4
85°	5.3	5.3	17.5	19.8	24.4	19.8	25.2	30.5	43.4	55.6	29.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.8	6.9	13.0	8.4
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°	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9	2657.9
2.5°	2662.4	2623.6	2577.1	2539.0	2480.3	2449.0	2409.4	2360.6	2340.8	2331.6	2326.3
5°	2667.8	2599.2	2500.1	2408.6	2307.2	2227.2	2138.0	2045.0	1991.7	1978.7	1969.6
7.5°	2687.6	2591.5	2433.8	2282.8	2094.6	1920.0	1750.1	1581.6	1495.5	1462.7	1459.7
10°	2715.0	2588.5	2366.7	2115.9	1798.1	1522.2	1323.2	1191.3	1135.7	1117.4	1111.3
12.5°	2749.3	2586.2	2278.3	1884.2	1455.8	1195.2	1081.6	1060.2	1067.9	1066.3	1066.3
15°	2792.8	2589.3	2171.6	1622.0	1177.6	1037.4	1039.7	1064.8	1088.5	1092.3	1092.3
17.5°	2840.0	2586.2	2016.8	1359.0	1010.7	1000.0	1035.1	1070.2	1091.5	1094.5	1094.5
20°	2891.1	2571.7	1821.7	1111.3	937.5	976.4	1014.5	1042.0	1054.9	1058.0	1058.0
22.5°	2921.6	2530.6	1609.8	940.6	891.0	939.1	964.2	992.4	993.9	969.5	968.8
25°	2917.0	2453.6	1368.2	830.8	841.5	883.4	915.4	895.6	871.2	857.5	855.2
27.5°	2888.1	2337.7	1122.0	747.7	782.8	830.1	820.1	803.4	797.3	782.0	780.5
30°	2851.5	2195.2	900.9	682.9	721.8	765.3	750.0	748.5	742.4	725.6	725.6
32.5°	2816.4	2048.1	734.0	634.9	682.9	686.0	707.3	708.9	705.8	676.9	673.8
35°	2806.5	1901.0	621.2	596.8	644.8	643.3	673.8	673.0	620.4	580.0	579.3
37.5°	2836.2	1751.6	554.1	565.6	592.2	612.1	636.5	592.2	574.7	550.3	548.8
40°	2899.5	1613.6	519.8	547.3	558.7	587.7	549.6	552.6	548.0	529.7	527.5
42.5°	2983.3	1496.2	500.8	541.2	539.7	547.3	505.4	517.5	524.4	510.7	508.4
45°	3064.1	1394.1	490.9	518.3	525.9	481.7	473.3	484.8	495.4	490.1	487.8
47.5°	3123.6	1305.7	485.5	487.1	508.4	459.6	445.9	451.2	464.2	466.5	465.7
50°	3141.9	1230.2	479.4	461.1	456.6	437.5	426.8	425.3	440.6	451.2	452.8
52.5°	3106.8	1163.1	463.4	438.3	416.2	419.2	415.4	407.8	423.0	437.5	439.0
55°	3055.0	1125.0	438.3	416.2	390.3	402.5	404.0	397.1	407.0	416.9	416.9
57.5°	3058.8	1147.1	413.9	395.6	367.4	383.4	391.8	388.7	388.7	396.4	397.1
60°	3083.9	1179.2	397.9	369.7	344.5	361.3	380.3	377.3	370.4	380.3	380.3
62.5°	3011.5	1136.5	387.2	344.5	320.1	340.0	362.8	361.3	353.7	369.7	371.2
65°	2798.1	1022.1	375.0	313.3	295.7	318.6	338.4	343.8	336.9	358.2	362.1
67.5°	2345.4	859.8	351.4	283.5	271.4	292.7	311.7	319.4	314.0	339.2	342.2
70°	1748.5	695.9	314.0	250.8	241.6	260.7	278.2	281.3	282.0	311.7	314.8
72.5°	1115.1	541.2	264.5	214.2	207.3	221.8	234.8	247.0	252.3	280.5	279.7
75°	622.0	402.5	212.7	181.4	169.2	180.6	195.9	210.4	225.6	266.8	271.4
77.5°	358.2	282.8	168.5	145.6	131.1	143.3	156.3	176.8	222.6	258.4	253.8
80°	202.0	183.7	127.3	106.7	97.6	106.7	116.6	155.5	175.3	190.6	192.8
82.5°	94.5	102.9	86.9	65.6	65.6	71.6	80.8	120.4	132.6	108.2	94.5
85°	34.3	46.5	42.7	33.5	29.7	29.0	50.3	68.6	42.7	38.1	32.8
87.5°	9.1	13.0	12.2	8.4	4.6	3.8	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)