

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: P639522

Luminaire Tested: GWS-SA5C-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13820.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

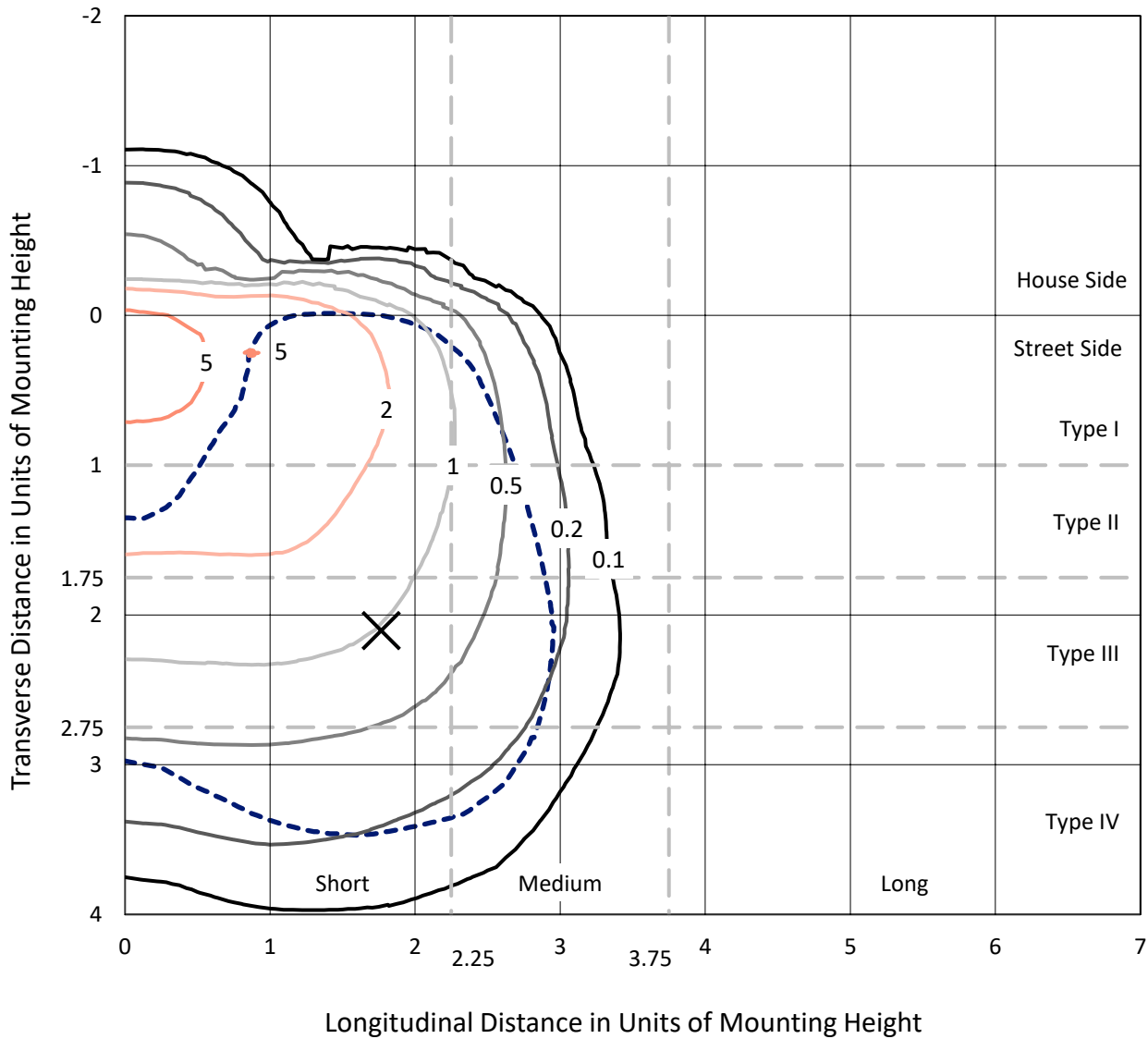
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

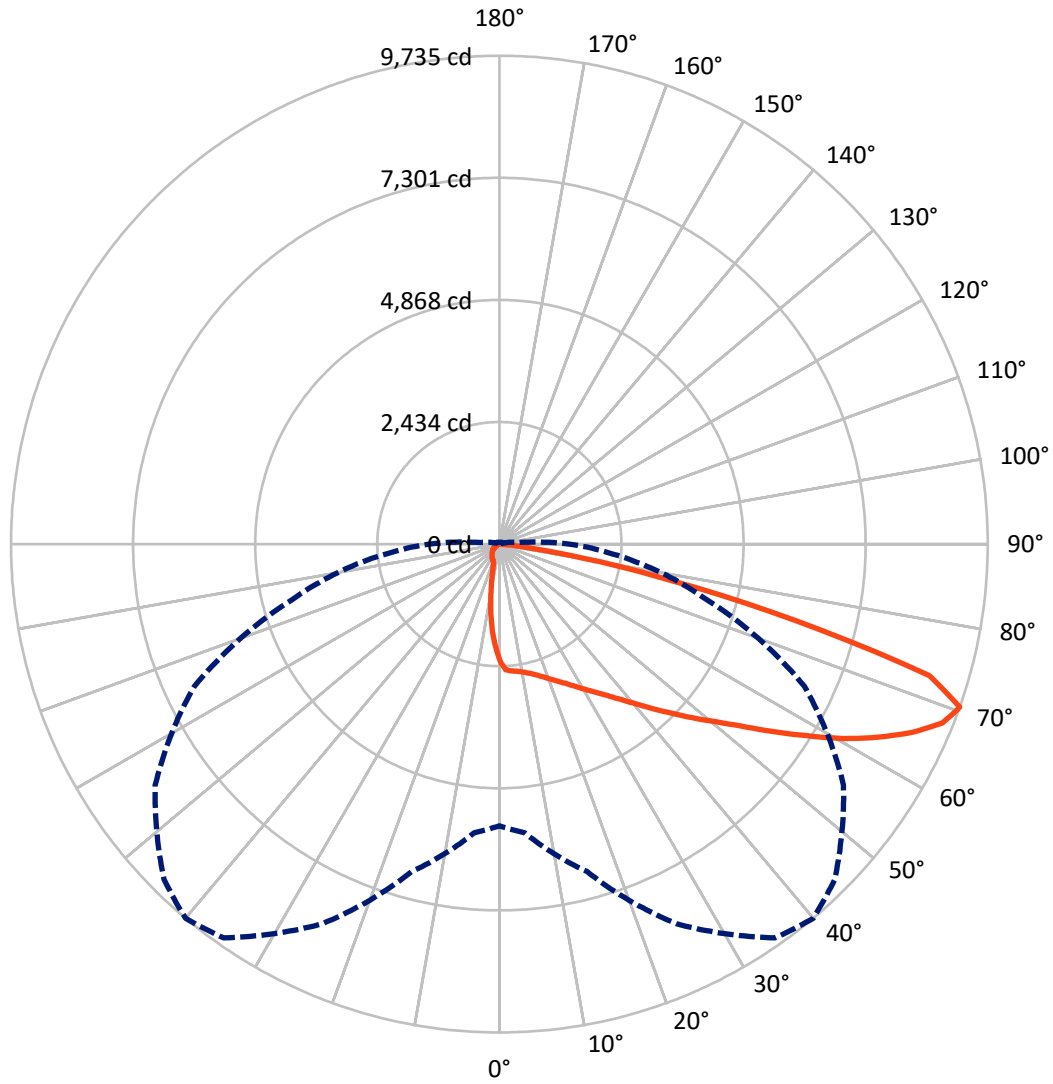
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1130.1	0.0	1130.1
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	12690.0	0.0	12690.0
	% Fixture	91.8	0.0	91.8
Total	Lumens	13820.1	0.0	13820.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	1.4
10°-20°	502.7	3.6
20°-30°	841.4	6.1
30°-40°	1321.5	9.6
40°-50°	2090.2	15.1
50°-60°	3049.1	22.1
60°-70°	3779.8	27.4
70°-80°	1912.4	13.8
80°-90°	124.8	0.9
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°	13820.1	100.0
0°-180°	13820.1	100.0

Coefficient of Utilization



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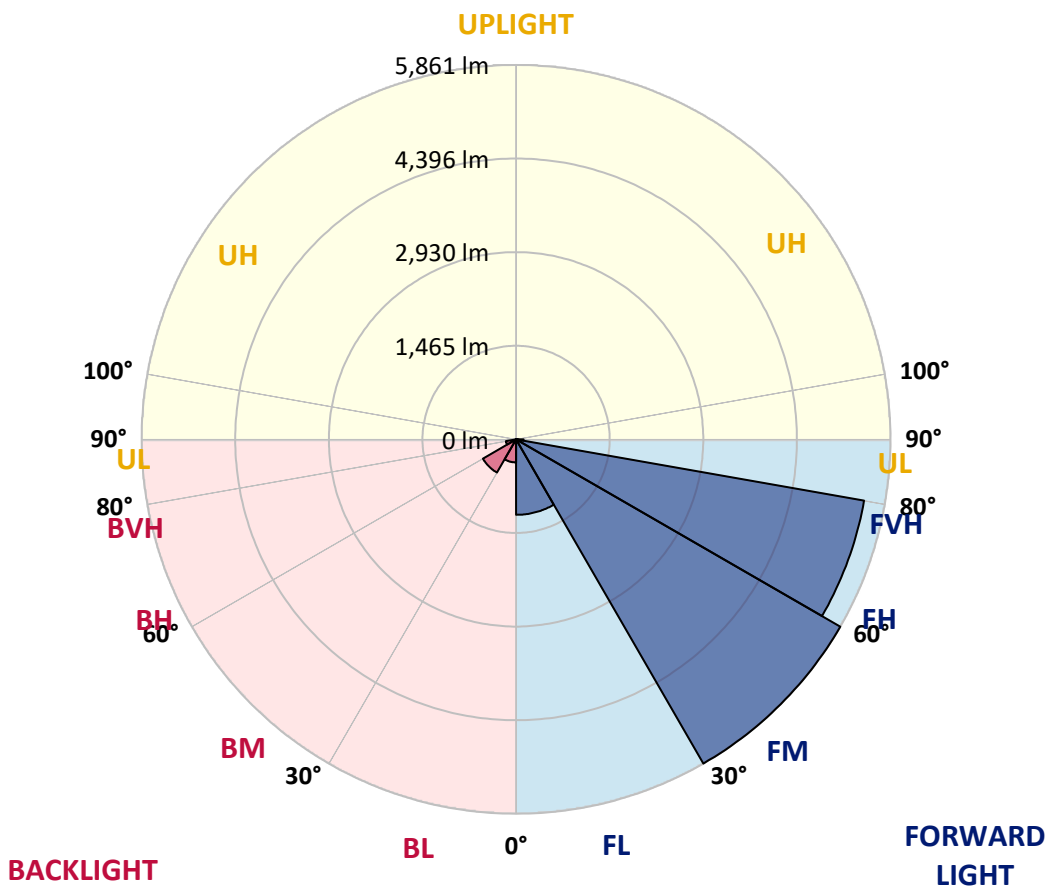
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.4	8.5			
FM (30°-60°)	5860.9	42.4			
FH (60°-80°)	5531.0	40.0			G3/7500
FVH (80°-90°)	116.6	0.8			G2/225
BL (0°-30°)	360.9	2.6	B1/500		
BM (30°-60°)	599.9	4.3	B1/1000		
BH (60°-80°)	161.1	1.2	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1
2.5°	2521.1	2529.9	2528.7	2532.5	2523.7	2509.8	2507.3	2488.5	2454.5	2411.7	2364.0
5°	2572.7	2582.8	2575.2	2571.4	2555.1	2540.0	2536.2	2516.1	2477.1	2419.3	2336.3
7.5°	2616.7	2619.2	2614.2	2605.4	2581.5	2561.4	2547.6	2519.9	2473.4	2415.5	2320.0
10°	2624.3	2623.0	2625.5	2626.8	2611.7	2594.1	2582.8	2545.0	2485.9	2424.3	2321.2
12.5°	2615.5	2615.5	2631.8	2650.7	2650.7	2641.9	2630.5	2596.6	2527.4	2454.5	2346.4
15°	2626.8	2630.5	2662.0	2697.2	2708.5	2699.7	2694.7	2659.5	2587.8	2507.3	2391.6
17.5°	2667.0	2670.8	2721.1	2773.9	2787.7	2777.7	2767.6	2732.4	2655.7	2567.7	2443.2
20°	2726.1	2736.2	2800.3	2868.2	2880.8	2868.2	2848.1	2799.0	2722.3	2633.1	2492.2
22.5°	2834.2	2840.5	2909.7	2981.4	2987.7	2967.5	2937.4	2869.5	2789.0	2702.2	2547.6
25°	2977.6	2986.4	3055.6	3124.7	3108.4	3078.2	3036.7	2960.0	2868.2	2783.9	2618.0
27.5°	3148.6	3158.7	3226.6	3286.9	3244.2	3209.0	3162.4	3066.9	2973.8	2897.1	2708.5
30°	3333.4	3342.2	3402.6	3456.7	3400.1	3358.6	3303.3	3205.2	3110.9	3053.0	2836.8
32.5°	3512.0	3510.7	3568.6	3612.6	3554.8	3522.1	3471.8	3372.4	3297.0	3271.8	3027.9
35°	3678.0	3678.0	3725.8	3769.8	3728.3	3710.7	3664.1	3584.9	3542.2	3572.4	3283.1
37.5°	3845.2	3836.4	3881.7	3930.7	3927.0	3928.2	3901.8	3864.1	3866.6	3973.5	3634.0
40°	3983.5	3979.8	4032.6	4096.7	4147.0	4187.2	4170.9	4184.7	4263.9	4463.9	4082.9
42.5°	4094.2	4103.0	4170.9	4272.7	4399.7	4481.5	4492.8	4549.4	4753.1	5062.4	4589.6
45°	4221.2	4222.4	4316.8	4472.7	4675.1	4804.6	4849.9	4995.8	5285.0	5683.6	5145.4
47.5°	4377.1	4362.0	4467.6	4686.4	4979.4	5170.5	5251.0	5433.4	5881.0	6289.7	5598.1
50°	4549.4	4521.7	4641.2	4939.2	5320.2	5559.1	5722.6	5989.1	6472.0	6787.6	5935.1
52.5°	4749.3	4722.9	4858.7	5229.6	5728.8	6019.3	6229.3	6498.4	6978.7	7167.3	6136.3
55°	5003.3	4976.9	5120.3	5578.0	6211.7	6588.9	6809.0	7035.3	7450.3	7447.8	6282.1
57.5°	5285.0	5248.5	5447.2	6018.1	6814.0	7206.3	7430.1	7540.8	7808.6	7665.3	6380.2
60°	5608.1	5575.4	5850.8	6542.4	7509.4	7872.8	8013.6	7968.3	8102.9	7793.5	6346.2
62.5°	5899.9	5884.8	6226.8	7098.2	8172.0	8478.8	8517.8	8320.4	8319.2	7796.1	6117.4
65°	6202.9	6231.8	6739.8	7738.2	8838.5	9044.7	8978.0	8670.0	8405.9	7488.0	5440.9
67.5°	6316.1	6400.3	7078.1	8316.6	9364.1	9525.0	9408.1	8844.8	8045.0	6451.9	4143.2
70°	5616.9	5775.4	6758.7	8349.3	9581.6	9735.0	9454.6	8374.5	6707.1	4274.0	2269.7
72.5°	4271.5	4456.3	5632.0	6836.6	8617.2	8966.7	8487.6	6822.8	4323.0	1872.3	762.0
75°	2390.4	2590.3	4194.8	5147.9	5785.4	6104.8	5928.8	4377.1	1915.1	489.1	227.6
77.5°	808.5	875.2	1951.5	3185.1	3818.8	3532.1	2990.2	2174.1	704.2	186.1	120.7
80°	479.1	504.2	726.8	1585.6	2009.4	1666.1	1315.3	803.5	358.4	99.3	84.2
82.5°	143.3	169.8	401.1	588.5	787.2	490.4	415.0	459.0	186.1	54.1	70.4
85°	0.0	0.0	85.5	182.3	206.2	80.5	80.5	260.3	34.0	22.6	51.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.3	3.8	5.0	11.3
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°	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1	2345.1
2.5°	2330.0	2286.0	2234.5	2185.4	2138.9	2078.5	2049.6	2014.4	1984.2	1967.9	1976.7
5°	2283.5	2214.3	2108.7	2001.8	1893.7	1791.8	1700.0	1638.4	1583.1	1554.2	1560.5
7.5°	2243.3	2150.2	1985.5	1810.7	1637.2	1462.4	1320.3	1209.6	1124.1	1088.9	1082.6
10°	2225.6	2108.7	1876.1	1624.6	1358.0	1122.9	921.7	799.7	713.0	670.2	677.8
12.5°	2234.5	2087.3	1783.0	1442.3	1096.5	822.4	630.0	515.5	453.9	428.8	422.5
15°	2259.6	2082.3	1700.0	1256.2	846.2	574.6	435.1	388.5	376.0	373.5	373.5
17.5°	2288.5	2083.6	1614.5	1067.6	642.5	426.3	372.2	363.4	359.6	357.1	358.4
20°	2317.4	2083.6	1516.5	876.4	482.9	368.4	354.6	348.3	344.5	343.3	343.3
22.5°	2352.6	2083.6	1407.1	699.1	387.3	349.6	338.2	334.5	330.7	329.4	328.2
25°	2395.4	2084.8	1286.3	547.0	352.1	333.2	324.4	320.6	316.9	314.4	314.4
27.5°	2457.0	2094.9	1153.1	426.3	332.0	318.1	310.6	306.8	303.0	299.3	299.3
30°	2546.3	2120.0	1003.4	352.1	313.1	301.8	294.2	291.7	288.0	284.2	282.9
32.5°	2679.6	2164.0	848.8	315.6	295.5	284.2	275.4	272.9	269.1	265.3	264.1
35°	2865.7	2244.5	697.9	293.0	272.9	261.5	256.5	255.3	250.2	246.5	246.5
37.5°	3138.5	2375.3	553.3	270.3	254.0	245.2	238.9	236.4	231.4	227.6	226.3
40°	3471.8	2545.0	430.0	252.7	236.4	227.6	221.3	217.5	211.2	206.2	203.7
42.5°	3896.8	2752.5	339.5	233.9	220.1	211.2	206.2	198.7	189.9	182.3	181.1
45°	4339.4	2966.3	280.4	216.3	205.0	197.4	191.1	181.1	168.5	159.7	157.2
47.5°	4678.9	3099.6	245.2	197.4	188.6	182.3	174.8	162.2	147.1	137.1	134.5
50°	4921.6	3119.7	218.8	179.8	174.8	168.5	157.2	142.1	125.7	115.7	113.2
52.5°	5041.0	3029.1	197.4	163.5	159.7	153.4	139.6	123.2	105.6	95.6	93.0
55°	5095.1	2858.1	177.3	149.6	144.6	137.1	122.0	104.4	86.8	78.0	75.4
57.5°	5073.7	2605.4	159.7	135.8	129.5	120.7	104.4	85.5	71.7	62.9	61.6
60°	4915.3	2250.8	142.1	122.0	114.4	104.4	88.0	70.4	57.8	51.6	50.3
62.5°	4573.3	1810.7	124.5	105.6	100.6	90.5	75.4	57.8	47.8	44.0	42.8
65°	3872.9	1280.1	106.9	89.3	86.8	76.7	62.9	47.8	41.5	39.0	37.7
67.5°	2783.9	778.3	90.5	76.7	74.2	65.4	52.8	41.5	37.7	36.5	36.5
70°	1399.5	368.4	71.7	62.9	62.9	54.1	45.3	37.7	36.5	35.2	35.2
72.5°	475.3	157.2	54.1	49.0	51.6	46.5	39.0	35.2	35.2	35.2	35.2
75°	162.2	83.0	37.7	35.2	37.7	37.7	34.0	34.0	35.2	35.2	35.2
77.5°	105.6	55.3	26.4	23.9	28.9	28.9	28.9	31.4	34.0	34.0	34.0
80°	86.8	30.2	17.6	16.3	21.4	21.4	23.9	28.9	31.4	31.4	31.4
82.5°	74.2	18.9	10.1	11.3	15.1	16.3	20.1	23.9	27.7	28.9	28.9
85°	50.3	10.1	7.5	8.8	10.1	12.6	16.3	20.1	22.6	25.1	25.1
87.5°	13.8	3.8	5.0	6.3	6.3	8.8	12.6	15.1	17.6	18.9	18.9
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)