

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: P639247

Luminaire Tested: GWS-SA5B-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639247
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-SA5B-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13990 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

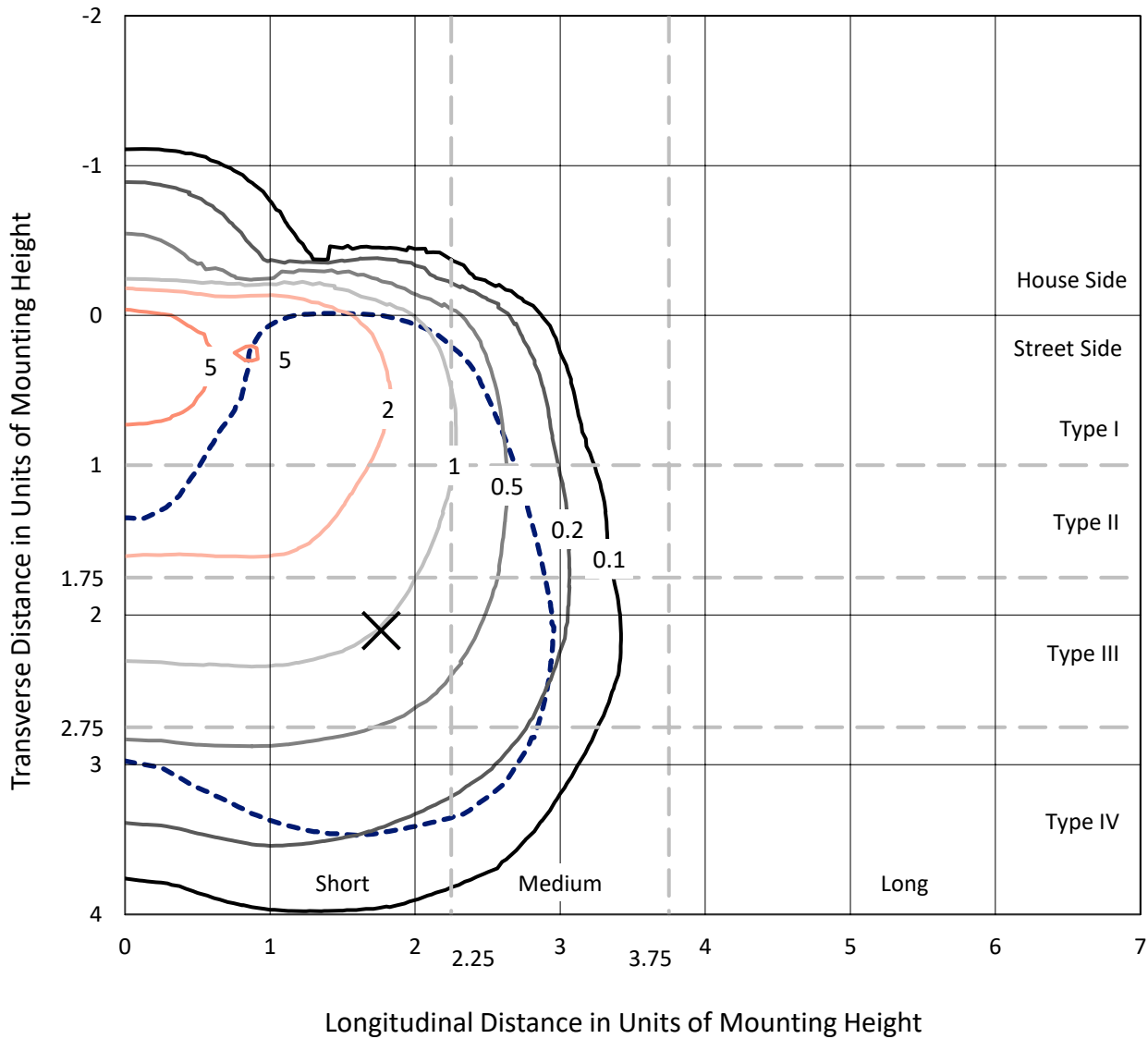
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

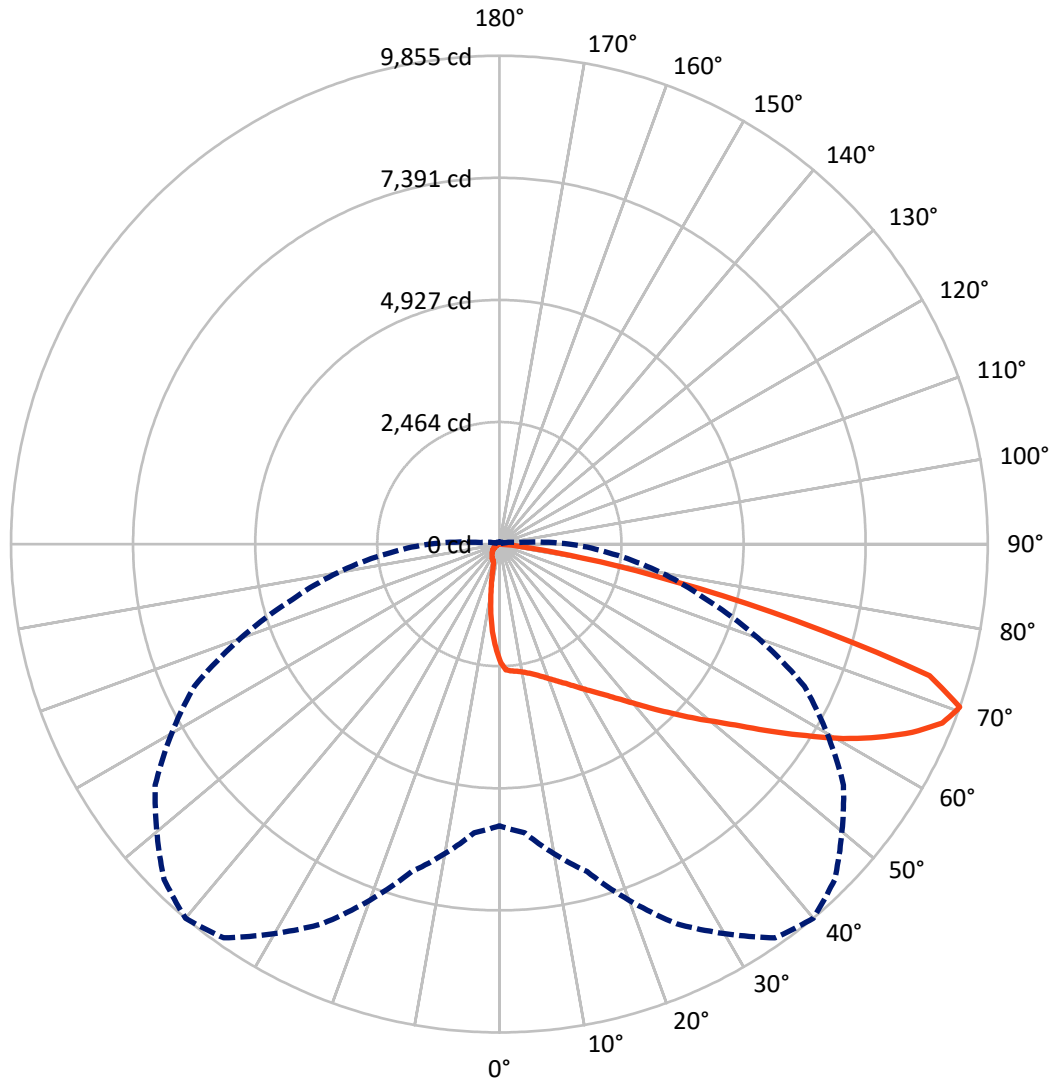
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	1144.0	0.0	1144.0
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	12846.0	0.0	12846.0
	% Fixture	91.8	0.0	91.8
Total	Lumens	13990.0	0.0	13990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.4
10°-20°	508.9	3.6
20°-30°	851.7	6.1
30°-40°	1337.7	9.6
40°-50°	2115.9	15.1
50°-60°	3086.6	22.1
60°-70°	3826.3	27.4
70°-80°	1935.9	13.8
80°-90°	126.4	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°	13990.0	100.0
0°-180°	13990.0	100.0

Coefficient of Utilization



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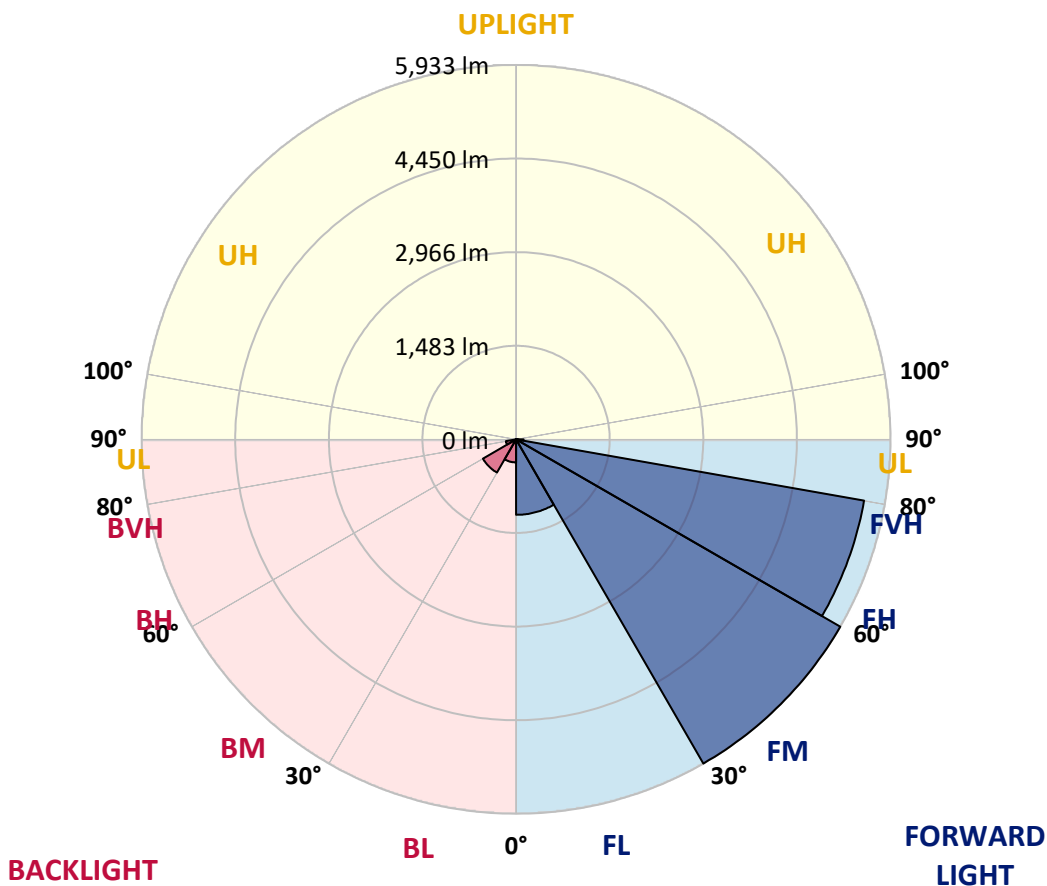
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.9	8.5			
FM (30°-60°)	5933.0	42.4			
FH (60°-80°)	5599.0	40.0			G3/7500
FVH (80°-90°)	118.0	0.8			G2/225
BL (0°-30°)	365.3	2.6	B1/500		
BM (30°-60°)	607.2	4.3	B1/1000		
BH (60°-80°)	163.1	1.2	B1/500		G1/500
BVH (80°-90°)	8.3	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°	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9
2.5°	2552.1	2561.0	2559.8	2563.6	2554.7	2540.7	2538.1	2519.0	2484.7	2441.4	2393.0
5°	2604.3	2614.5	2606.9	2603.1	2586.5	2571.2	2567.4	2547.0	2507.6	2449.0	2365.0
7.5°	2648.9	2651.4	2646.3	2637.4	2613.2	2592.9	2578.9	2550.9	2503.8	2445.2	2348.5
10°	2656.5	2655.2	2657.8	2659.1	2643.8	2626.0	2614.5	2576.3	2516.5	2454.1	2349.8
12.5°	2647.6	2647.6	2664.2	2683.2	2683.2	2674.3	2662.9	2628.5	2558.5	2484.7	2375.2
15°	2659.1	2662.9	2694.7	2730.3	2741.8	2732.9	2727.8	2692.2	2619.6	2538.1	2421.0
17.5°	2699.8	2703.6	2754.5	2808.0	2822.0	2811.8	2801.6	2766.0	2688.3	2599.2	2473.2
20°	2759.6	2769.8	2834.7	2903.5	2916.2	2903.5	2883.1	2833.4	2755.8	2665.4	2522.9
22.5°	2869.1	2875.5	2945.5	3018.0	3024.4	3004.0	2973.5	2904.7	2823.3	2735.4	2578.9
25°	3014.2	3023.1	3093.1	3163.1	3146.6	3116.0	3074.0	2996.4	2903.5	2818.2	2650.2
27.5°	3187.3	3197.5	3266.2	3327.3	3284.0	3248.4	3201.3	3104.6	3010.4	2932.7	2741.8
30°	3374.4	3383.3	3444.4	3499.2	3441.9	3399.9	3343.9	3244.6	3149.1	3090.6	2871.6
32.5°	3555.2	3553.9	3612.5	3657.0	3598.5	3565.4	3514.4	3413.9	3337.5	3312.1	3065.1
35°	3723.2	3723.2	3771.6	3816.1	3774.1	3756.3	3709.2	3629.0	3585.7	3616.3	3323.5
37.5°	3892.5	3883.6	3929.4	3979.0	3975.2	3976.5	3949.8	3911.6	3914.1	4022.3	3678.6
40°	4032.5	4028.7	4082.2	4147.1	4198.0	4238.7	4222.2	4236.2	4316.4	4518.8	4133.1
42.5°	4144.5	4153.4	4222.2	4325.3	4453.8	4536.6	4548.0	4605.3	4811.5	5124.6	4646.0
45°	4273.1	4274.4	4369.8	4527.7	4732.6	4863.7	4909.5	5057.2	5349.9	5753.5	5208.7
47.5°	4430.9	4415.6	4522.6	4744.1	5040.6	5234.1	5315.6	5500.1	5953.3	6367.0	5666.9
50°	4605.3	4577.3	4698.2	4999.9	5385.6	5627.4	5792.9	6062.8	6551.6	6871.0	6008.0
52.5°	4807.7	4781.0	4918.4	5293.9	5799.3	6093.3	6305.9	6578.3	7064.5	7255.5	6211.7
55°	5064.8	5038.1	5183.2	5646.5	6288.1	6669.9	6892.7	7121.8	7541.9	7539.3	6359.3
57.5°	5349.9	5313.0	5514.1	6092.0	6897.8	7294.9	7521.5	7633.5	7904.6	7759.5	6458.6
60°	5677.1	5644.0	5922.7	6622.8	7601.7	7969.5	8112.1	8066.3	8202.5	7889.4	6424.3
62.5°	5972.4	5957.1	6303.3	7185.5	8272.5	8583.1	8622.5	8422.7	8421.4	7891.9	6192.6
65°	6279.2	6308.4	6822.7	7833.4	8947.1	9155.9	9088.4	8776.6	8509.3	7580.0	5507.8
67.5°	6393.7	6479.0	7165.1	8418.9	9479.2	9642.1	9523.7	8953.5	8143.9	6531.2	4194.2
70°	5686.0	5846.4	6841.8	8452.0	9699.4	9854.7	9570.8	8477.4	6789.6	4326.5	2297.6
72.5°	4324.0	4511.1	5701.3	6920.7	8723.1	9077.0	8592.0	6906.7	4376.2	1895.3	771.4
75°	2419.8	2622.1	4246.4	5211.2	5856.6	6179.9	6001.7	4430.9	1938.6	495.2	230.4
77.5°	818.5	885.9	1975.5	3224.2	3865.8	3575.5	3026.9	2200.8	712.8	188.4	122.2
80°	485.0	510.4	735.7	1605.1	2034.1	1686.6	1331.4	813.4	362.8	100.6	85.3
82.5°	145.1	171.8	406.1	595.7	796.8	496.4	420.1	464.6	188.4	54.7	71.3
85°	0.0	0.0	86.6	184.6	208.8	81.5	81.5	263.5	34.4	22.9	52.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.4	3.8	5.1	11.5
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°	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9
2.5°	2358.7	2314.1	2261.9	2212.3	2165.2	2104.1	2074.8	2039.2	2008.6	1992.1	2001.0
5°	2311.6	2241.6	2134.6	2026.4	1917.0	1813.9	1720.9	1658.6	1602.6	1573.3	1579.7
7.5°	2270.8	2176.6	2009.9	1833.0	1657.3	1480.4	1336.5	1224.5	1138.0	1102.3	1096.0
10°	2253.0	2134.6	1899.1	1644.6	1374.7	1136.7	933.0	809.6	721.7	678.4	686.1
12.5°	2261.9	2113.0	1805.0	1460.0	1110.0	832.5	637.7	521.9	459.5	434.1	427.7
15°	2287.4	2107.9	1720.9	1271.6	856.7	581.7	440.4	393.3	380.6	378.0	378.0
17.5°	2316.7	2109.2	1634.4	1080.7	650.4	431.5	376.8	367.9	364.0	361.5	362.8
20°	2345.9	2109.2	1535.1	887.2	488.8	373.0	359.0	352.6	348.8	347.5	347.5
22.5°	2381.6	2109.2	1424.4	707.7	392.0	353.9	342.4	338.6	334.8	333.5	332.2
25°	2424.9	2110.4	1302.2	553.7	356.4	337.3	328.4	324.6	320.8	318.2	318.2
27.5°	2487.2	2120.6	1167.2	431.5	336.0	322.0	314.4	310.6	306.8	302.9	302.9
30°	2577.6	2146.1	1015.8	356.4	316.9	305.5	297.9	295.3	291.5	287.7	286.4
32.5°	2712.5	2190.6	859.2	319.5	299.1	287.7	278.8	276.2	272.4	268.6	267.3
35°	2900.9	2272.1	706.5	296.6	276.2	264.8	259.7	258.4	253.3	249.5	249.5
37.5°	3177.1	2404.5	560.1	273.7	257.1	248.2	241.8	239.3	234.2	230.4	229.1
40°	3514.4	2576.3	435.3	255.9	239.3	230.4	224.0	220.2	213.8	208.8	206.2
42.5°	3944.7	2786.4	343.7	236.8	222.8	213.8	208.8	201.1	192.2	184.6	183.3
45°	4392.7	3002.7	283.9	218.9	207.5	199.8	193.5	183.3	170.6	161.7	159.1
47.5°	4736.4	3137.7	248.2	199.8	190.9	184.6	176.9	164.2	148.9	138.7	136.2
50°	4982.1	3158.0	221.5	182.0	176.9	170.6	159.1	143.8	127.3	117.1	114.6
52.5°	5103.0	3066.4	199.8	165.5	161.7	155.3	141.3	124.7	106.9	96.7	94.2
55°	5157.7	2893.3	179.5	151.5	146.4	138.7	123.5	105.6	87.8	78.9	76.4
57.5°	5136.1	2637.4	161.7	137.5	131.1	122.2	105.6	86.6	72.6	63.6	62.4
60°	4975.7	2278.5	143.8	123.5	115.8	105.6	89.1	71.3	58.6	52.2	50.9
62.5°	4629.5	1833.0	126.0	106.9	101.8	91.6	76.4	58.6	48.4	44.6	43.3
65°	3920.5	1295.8	108.2	90.4	87.8	77.6	63.6	48.4	42.0	39.5	38.2
67.5°	2818.2	787.9	91.6	77.6	75.1	66.2	53.5	42.0	38.2	36.9	36.9
70°	1416.7	373.0	72.6	63.6	63.6	54.7	45.8	38.2	36.9	35.6	35.6
72.5°	481.2	159.1	54.7	49.6	52.2	47.1	39.5	35.6	35.6	35.6	35.6
75°	164.2	84.0	38.2	35.6	38.2	38.2	34.4	34.4	35.6	35.6	35.6
77.5°	106.9	56.0	26.7	24.2	29.3	29.3	29.3	31.8	34.4	34.4	34.4
80°	87.8	30.5	17.8	16.5	21.6	21.6	24.2	29.3	31.8	31.8	31.8
82.5°	75.1	19.1	10.2	11.5	15.3	16.5	20.4	24.2	28.0	29.3	29.3
85°	50.9	10.2	7.6	8.9	10.2	12.7	16.5	20.4	22.9	25.5	25.5
87.5°	14.0	3.8	5.1	6.4	6.4	8.9	12.7	15.3	17.8	19.1	19.1
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)