

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: P639302

Luminaire Tested: GWS-SA5B-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639302
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14310.6 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

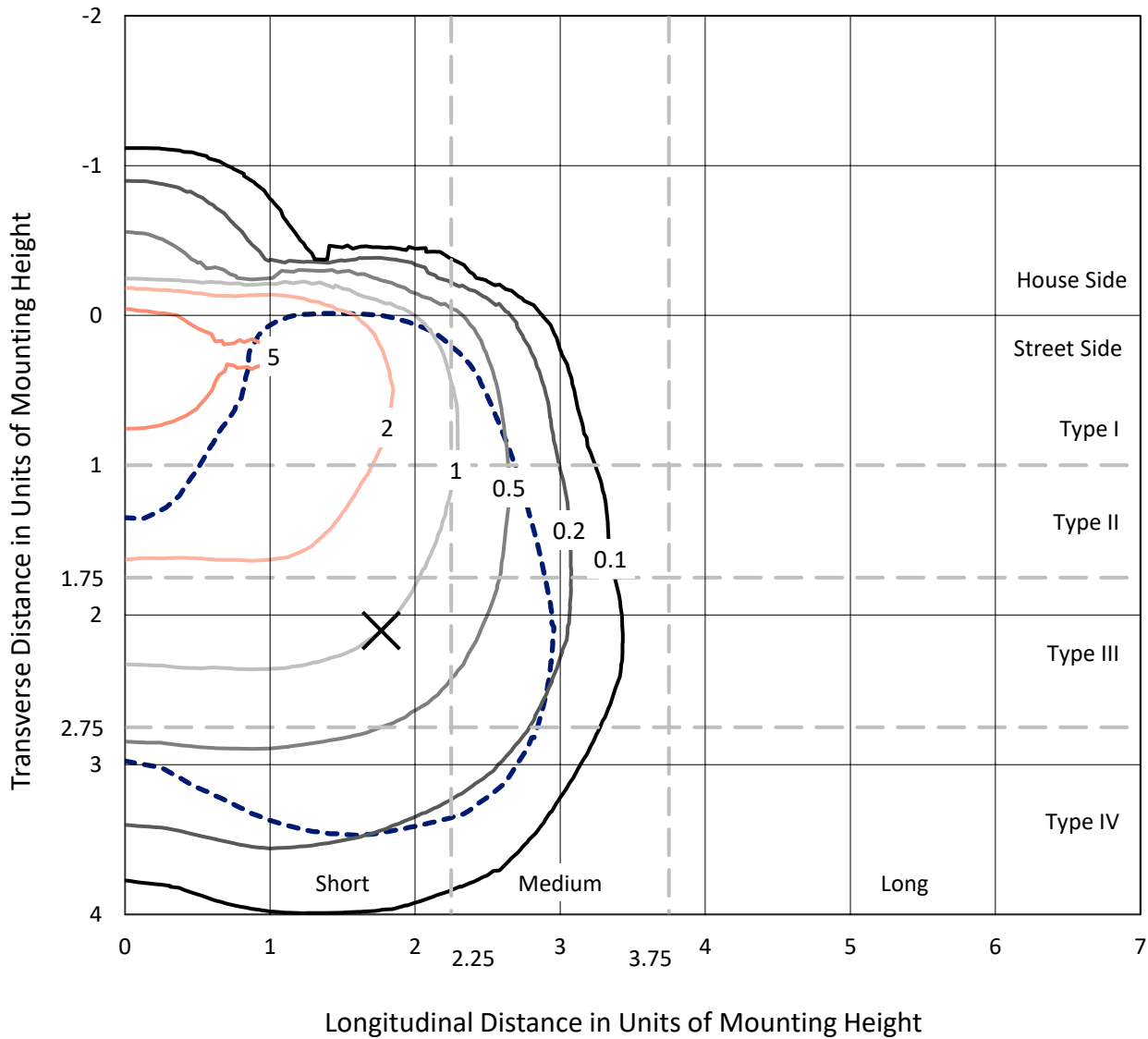
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

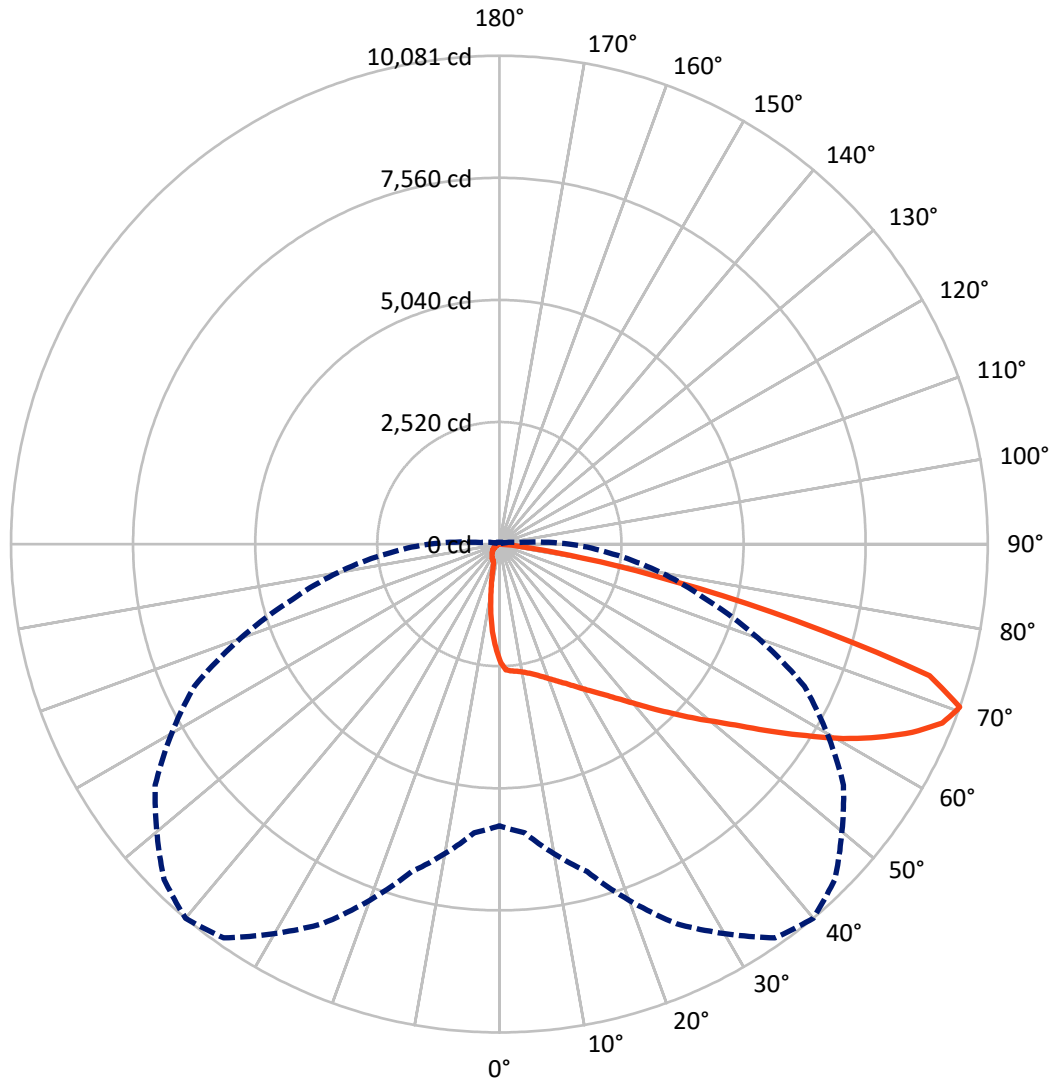
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	1170.2	0.0	1170.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	13140.4	0.0	13140.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	14310.6	0.0	14310.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	1.4
10°-20°	520.5	3.6
20°-30°	871.2	6.1
30°-40°	1368.4	9.6
40°-50°	2164.4	15.1
50°-60°	3157.3	22.1
60°-70°	3914.0	27.4
70°-80°	1980.3	13.8
80°-90°	129.3	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°	14310.6	100.0
0°-180°	14310.6	100.0

Coefficient of Utilization



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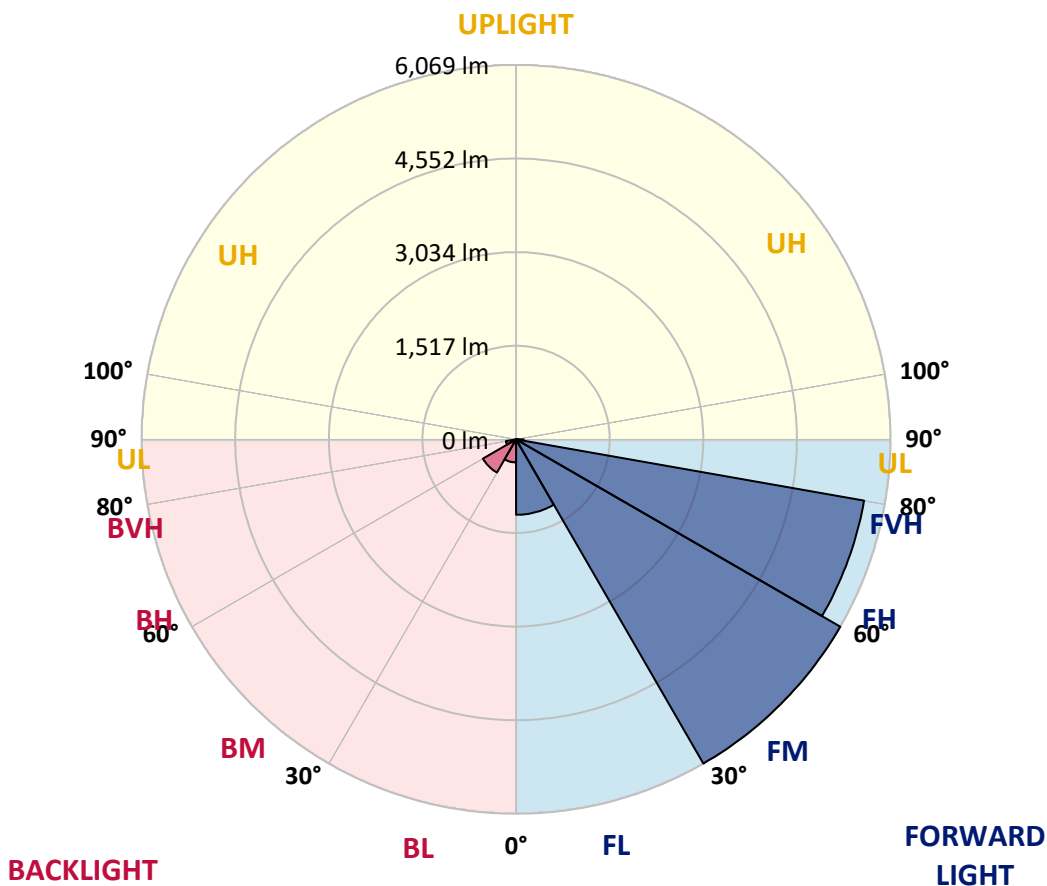
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.3	8.5			
FM (30°-60°)	6069.0	42.4			
FH (60°-80°)	5727.4	40.0			G3/7500
FVH (80°-90°)	120.7	0.8			G2/225
BL (0°-30°)	373.7	2.6	B1/500		
BM (30°-60°)	621.2	4.3	B1/1000		
BH (60°-80°)	166.9	1.2	B1/500		G1/500
BVH (80°-90°)	8.5	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°	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3
2.5°	2610.6	2619.7	2618.4	2622.3	2613.2	2598.9	2596.3	2576.8	2541.6	2497.3	2447.9
5°	2664.0	2674.4	2666.6	2662.7	2645.8	2630.2	2626.3	2605.4	2565.1	2505.2	2419.2
7.5°	2709.6	2712.2	2707.0	2697.9	2673.1	2652.3	2638.0	2609.3	2561.1	2501.3	2402.3
10°	2717.4	2716.1	2718.7	2720.0	2704.4	2686.1	2674.4	2635.4	2574.2	2510.4	2403.6
12.5°	2708.3	2708.3	2725.2	2744.7	2744.7	2735.6	2723.9	2688.7	2617.1	2541.6	2429.6
15°	2720.0	2723.9	2756.5	2792.9	2804.6	2795.5	2790.3	2753.9	2679.6	2596.3	2476.5
17.5°	2761.7	2765.6	2817.7	2872.3	2886.7	2876.2	2865.8	2829.4	2749.9	2658.8	2529.9
20°	2822.9	2833.3	2899.7	2970.0	2983.0	2970.0	2949.2	2898.4	2819.0	2726.5	2580.7
22.5°	2934.8	2941.3	3013.0	3087.2	3093.7	3072.9	3041.6	2971.3	2888.0	2798.1	2638.0
25°	3083.3	3092.4	3164.0	3235.6	3218.7	3187.4	3144.5	3065.0	2970.0	2882.8	2710.9
27.5°	3260.4	3270.8	3341.1	3403.6	3359.3	3322.9	3274.7	3175.7	3079.4	2999.9	2804.6
30°	3451.8	3460.9	3523.4	3579.4	3520.8	3477.8	3420.5	3318.9	3221.3	3161.4	2937.4
32.5°	3636.6	3635.3	3695.2	3740.8	3680.9	3647.1	3595.0	3492.1	3414.0	3388.0	3135.4
35°	3808.5	3808.5	3858.0	3903.6	3860.6	3842.4	3794.2	3712.2	3667.9	3699.1	3399.7
37.5°	3981.7	3972.6	4019.5	4070.2	4066.3	4067.6	4040.3	4001.2	4003.8	4114.5	3762.9
40°	4124.9	4121.0	4175.7	4242.1	4294.2	4335.9	4318.9	4333.2	4415.3	4622.3	4227.8
42.5°	4239.5	4248.6	4318.9	4424.4	4555.9	4640.5	4652.3	4710.8	4921.8	5242.1	4752.5
45°	4371.0	4372.3	4470.0	4631.4	4841.0	4975.2	5022.0	5173.1	5472.5	5885.3	5328.0
47.5°	4532.5	4516.8	4626.2	4852.8	5156.1	5354.1	5437.4	5626.2	6089.7	6512.9	5796.8
50°	4710.8	4682.2	4805.9	5114.5	5509.0	5756.4	5925.7	6201.7	6701.7	7028.5	6145.7
52.5°	4917.9	4890.5	5031.2	5415.3	5932.2	6232.9	6450.4	6729.0	7226.4	7421.7	6354.0
55°	5180.9	5153.5	5302.0	5775.9	6432.2	6822.8	7050.6	7285.0	7714.7	7712.1	6505.1
57.5°	5472.5	5434.8	5640.5	6231.6	7055.8	7462.1	7693.9	7808.4	8085.8	7937.3	6606.6
60°	5807.2	5773.3	6058.5	6774.6	7775.9	8152.2	8298.0	8251.1	8390.5	8070.2	6571.5
62.5°	6109.3	6093.6	6447.8	7350.1	8462.1	8779.8	8820.1	8615.7	8614.4	8072.8	6334.5
65°	6423.0	6453.0	6979.0	8012.9	9152.2	9365.7	9296.7	8977.7	8704.3	7753.8	5634.0
67.5°	6540.2	6627.5	7329.3	8611.8	9696.4	9863.1	9742.0	9158.7	8330.6	6680.9	4290.3
70°	5816.3	5980.4	6998.6	8645.7	9921.7	10080.5	9790.2	8671.7	6945.2	4425.7	2350.2
72.5°	4423.1	4614.5	5831.9	7079.3	8923.0	9285.0	8788.9	7065.0	4476.5	1938.8	789.0
75°	2475.2	2682.2	4343.7	5330.6	5990.8	6321.5	6139.2	4532.5	1983.0	506.5	235.7
77.5°	837.2	906.2	2020.8	3298.1	3954.3	3657.5	3096.3	2251.3	729.2	192.7	125.0
80°	496.1	522.1	752.6	1641.9	2080.7	1725.2	1362.0	832.0	371.1	102.9	87.2
82.5°	148.4	175.8	415.4	609.4	815.1	507.8	429.7	475.3	192.7	56.0	72.9
85°	0.0	0.0	88.5	188.8	213.5	83.3	83.3	269.5	35.2	23.4	53.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.5	3.9	5.2	11.7
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°	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3
2.5°	2412.7	2367.1	2313.8	2263.0	2214.8	2152.3	2122.4	2085.9	2054.6	2037.7	2046.8
5°	2364.5	2292.9	2183.6	2072.9	1960.9	1855.4	1760.4	1696.6	1639.3	1609.3	1615.9
7.5°	2322.9	2226.5	2055.9	1875.0	1695.3	1514.3	1367.2	1252.6	1164.0	1127.6	1121.1
10°	2304.6	2183.6	1942.7	1682.3	1406.2	1162.7	954.4	828.1	738.3	694.0	701.8
12.5°	2313.8	2161.4	1846.3	1493.5	1135.4	851.5	652.3	533.8	470.0	444.0	437.5
15°	2339.8	2156.2	1760.4	1300.8	876.3	595.0	450.5	402.3	389.3	386.7	386.7
17.5°	2369.7	2157.5	1671.8	1105.4	665.4	441.4	385.4	376.3	372.4	369.8	371.1
20°	2399.7	2157.5	1570.3	907.5	500.0	381.5	367.2	360.7	356.8	355.5	355.5
22.5°	2436.1	2157.5	1457.0	723.9	401.0	362.0	350.3	346.3	342.4	341.1	339.8
25°	2480.4	2158.8	1332.0	566.4	364.6	345.0	335.9	332.0	328.1	325.5	325.5
27.5°	2544.2	2169.2	1194.0	441.4	343.7	329.4	321.6	317.7	313.8	309.9	309.9
30°	2636.7	2195.3	1039.0	364.6	324.2	312.5	304.7	302.1	298.2	294.3	293.0
32.5°	2774.7	2240.8	878.9	326.8	306.0	294.3	285.2	282.5	278.6	274.7	273.4
35°	2967.4	2324.2	722.6	303.4	282.5	270.8	265.6	264.3	259.1	255.2	255.2
37.5°	3249.9	2459.6	572.9	279.9	263.0	253.9	247.4	244.8	239.6	235.7	234.4
40°	3595.0	2635.4	445.3	261.7	244.8	235.7	229.2	225.3	218.7	213.5	210.9
42.5°	4035.1	2850.2	351.6	242.2	227.9	218.7	213.5	205.7	196.6	188.8	187.5
45°	4493.4	3071.6	290.4	224.0	212.2	204.4	197.9	187.5	174.5	165.4	162.8
47.5°	4845.0	3209.6	253.9	204.4	195.3	188.8	181.0	168.0	152.3	141.9	139.3
50°	5096.3	3230.4	226.6	186.2	181.0	174.5	162.8	147.1	130.2	119.8	117.2
52.5°	5219.9	3136.7	204.4	169.3	165.4	158.9	144.5	127.6	109.4	99.0	96.4
55°	5275.9	2959.6	183.6	154.9	149.7	141.9	126.3	108.1	89.8	80.7	78.1
57.5°	5253.8	2697.9	165.4	140.6	134.1	125.0	108.1	88.5	74.2	65.1	63.8
60°	5089.7	2330.7	147.1	126.3	118.5	108.1	91.1	72.9	59.9	53.4	52.1
62.5°	4735.6	1875.0	128.9	109.4	104.2	93.7	78.1	59.9	49.5	45.6	44.3
65°	4010.3	1325.5	110.7	92.4	89.8	79.4	65.1	49.5	43.0	40.4	39.1
67.5°	2882.8	806.0	93.7	79.4	76.8	67.7	54.7	43.0	39.1	37.8	37.8
70°	1449.2	381.5	74.2	65.1	65.1	56.0	46.9	39.1	37.8	36.5	36.5
72.5°	492.2	162.8	56.0	50.8	53.4	48.2	40.4	36.5	36.5	36.5	36.5
75°	168.0	85.9	39.1	36.5	39.1	39.1	35.2	35.2	36.5	36.5	36.5
77.5°	109.4	57.3	27.3	24.7	29.9	29.9	29.9	32.6	35.2	35.2	35.2
80°	89.8	31.2	18.2	16.9	22.1	22.1	24.7	29.9	32.6	32.6	32.6
82.5°	76.8	19.5	10.4	11.7	15.6	16.9	20.8	24.7	28.6	29.9	29.9
85°	52.1	10.4	7.8	9.1	10.4	13.0	16.9	20.8	23.4	26.0	26.0
87.5°	14.3	3.9	5.2	6.5	6.5	9.1	13.0	15.6	18.2	19.5	19.5
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)