

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: P636880

Luminaire Tested: GWS-SA4B-760-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11827.3 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

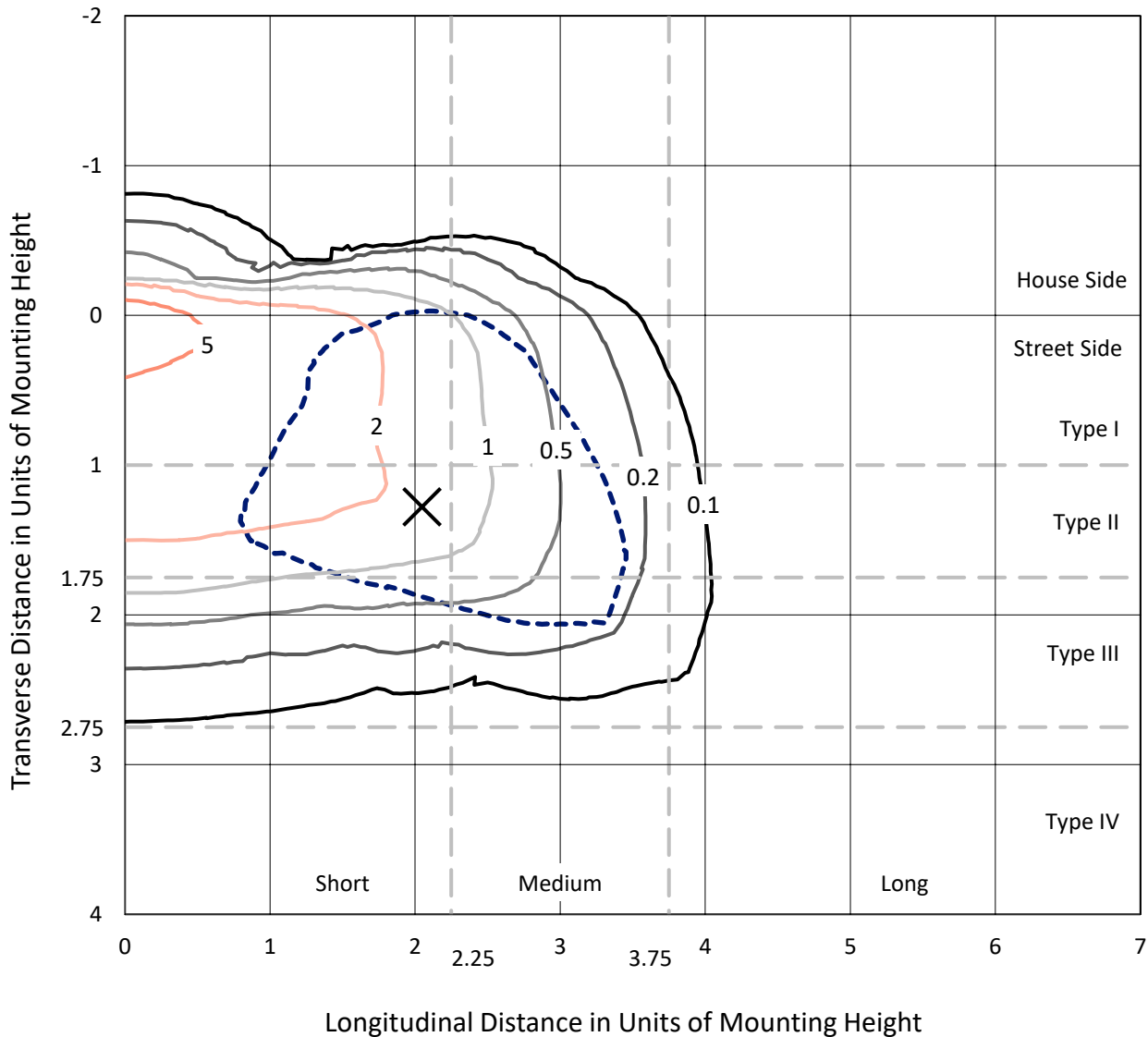
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

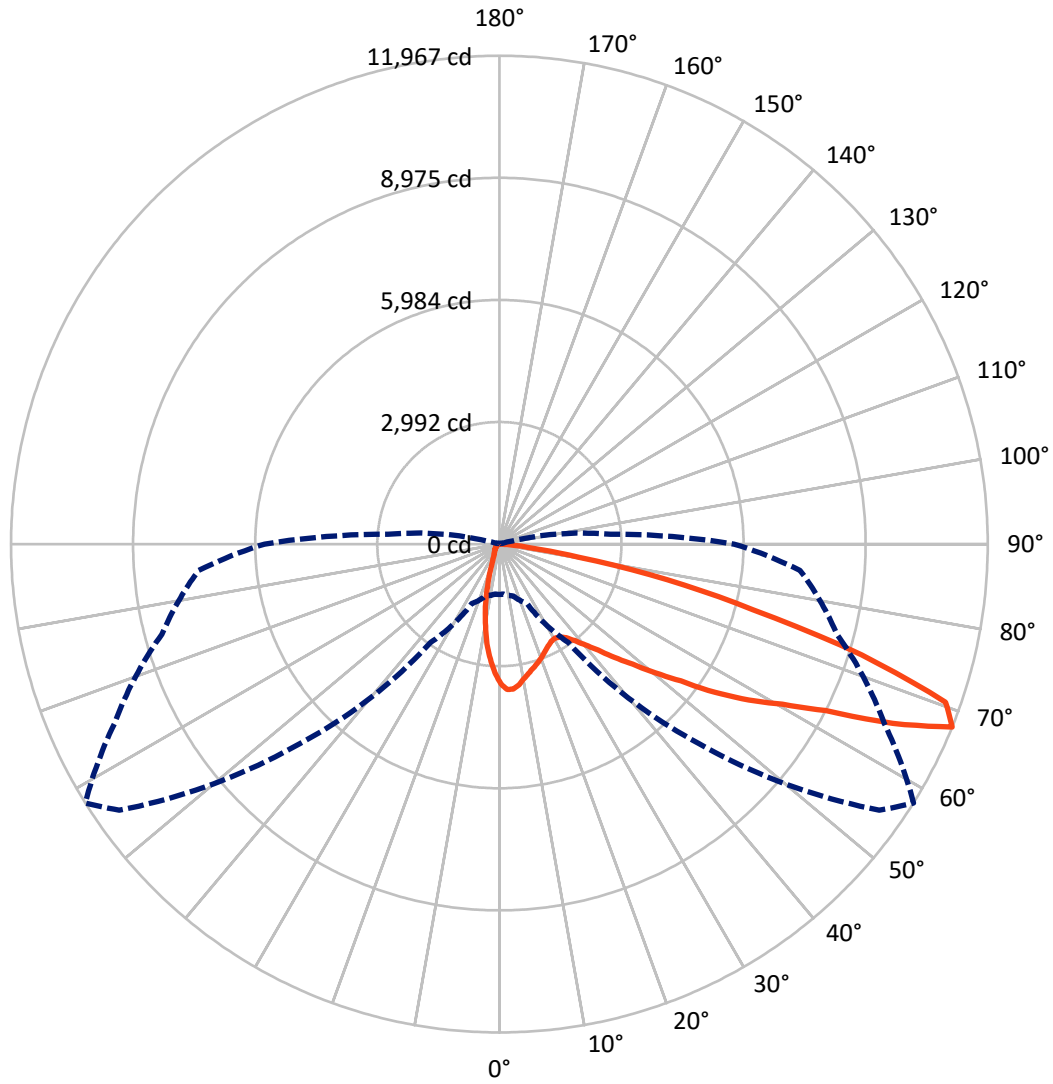
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.4	0.0	1155.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10671.9	0.0	10671.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	11827.3	0.0	11827.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	2.3
10°-20°	577.1	4.9
20°-30°	778.2	6.6
30°-40°	1093.6	9.2
40°-50°	1688.9	14.3
50°-60°	2700.8	22.8
60°-70°	3197.9	27.0
70°-80°	1414.7	12.0
80°-90°	98.9	0.8
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°	11827.3	100.0
0°-180°	11827.3	100.0

Coefficient of Utilization



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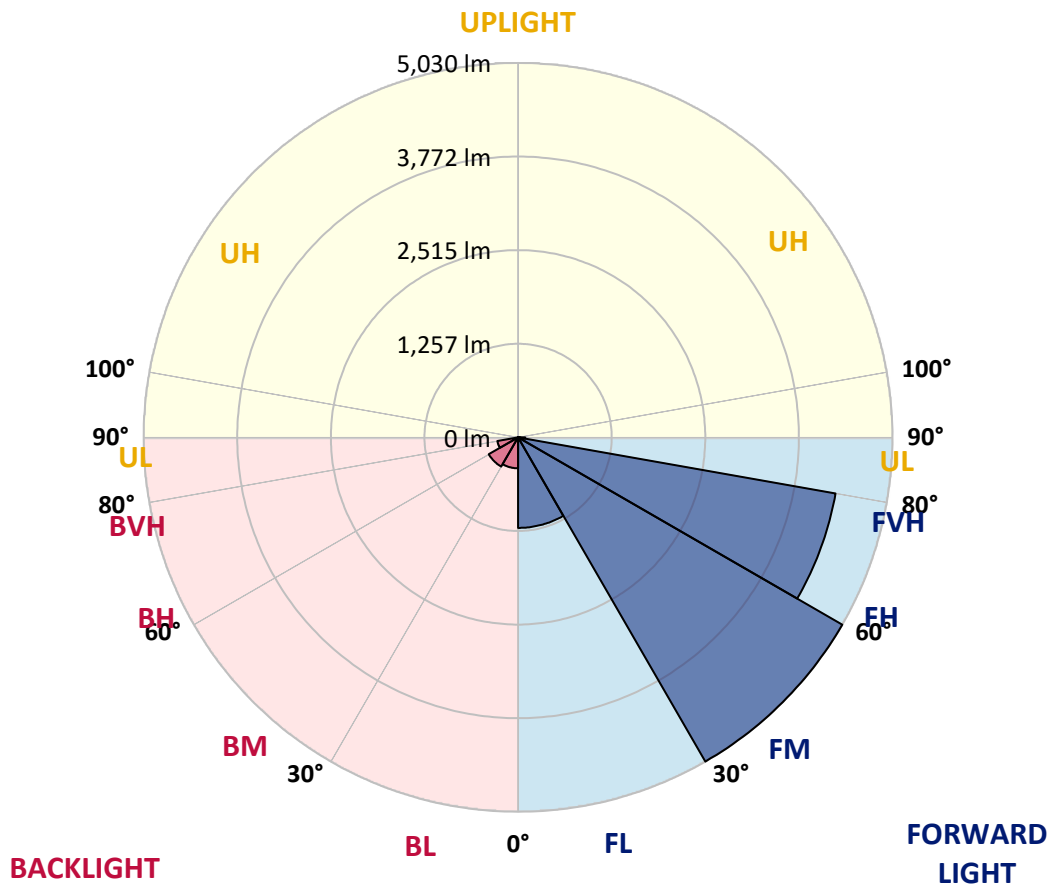
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.7	10.3			
FM (30°-60°)	5029.9	42.5			
FH (60°-80°)	4330.5	36.6			G2/5000
FVH (80°-90°)	94.7	0.8			G1/100
BL (0°-30°)	415.8	3.5	B1/500		
BM (30°-60°)	453.4	3.8	B1/1000		
BH (60°-80°)	282.1	2.4	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5
2.5°	3588.5	3594.7	3603.1	3613.6	3611.5	3602.1	3590.6	3564.4	3547.6	3495.3	3431.4
5°	3473.3	3472.3	3493.2	3513.1	3548.7	3567.5	3593.7	3569.6	3561.2	3498.4	3394.8
7.5°	3248.2	3259.8	3283.8	3315.2	3366.5	3422.0	3484.8	3477.5	3502.6	3460.7	3332.0
10°	3027.4	3021.1	3058.8	3105.9	3184.4	3255.6	3346.6	3345.6	3411.5	3407.4	3260.8
12.5°	2833.7	2832.7	2862.0	2915.4	3007.5	3106.9	3230.5	3233.6	3315.2	3348.7	3200.1
15°	2670.4	2672.5	2700.8	2756.2	2851.5	2972.9	3116.3	3142.5	3234.6	3302.7	3140.4
17.5°	2554.2	2555.3	2572.0	2620.2	2713.3	2843.1	3015.9	3051.4	3169.7	3268.1	3092.3
20°	2500.8	2496.6	2499.8	2523.9	2596.1	2714.4	2913.3	2959.3	3110.1	3244.1	3048.3
22.5°	2508.2	2501.9	2487.2	2484.1	2516.5	2606.6	2804.4	2860.9	3045.2	3229.4	3008.5
25°	2573.1	2559.4	2538.5	2507.1	2494.5	2539.6	2709.1	2767.8	2984.5	3230.5	2978.2
27.5°	2672.5	2657.8	2631.7	2589.8	2540.6	2521.8	2644.2	2699.7	2941.5	3254.5	2963.5
30°	2799.2	2787.7	2762.5	2712.3	2646.3	2568.9	2630.6	2676.7	2920.6	3303.7	2969.8
32.5°	2948.9	2940.5	2919.5	2873.5	2798.1	2679.8	2676.7	2712.3	2937.3	3374.9	2993.9
35°	3093.3	3096.5	3097.5	3072.4	2991.8	2848.4	2803.4	2815.9	3006.4	3481.7	3048.3
37.5°	3249.3	3242.0	3279.7	3297.4	3220.0	3067.1	2999.1	3000.2	3138.3	3639.8	3150.9
40°	3367.6	3369.7	3451.3	3524.6	3492.2	3344.6	3247.2	3246.2	3341.4	3856.4	3316.3
42.5°	3478.5	3492.2	3612.5	3738.2	3783.2	3652.3	3582.2	3556.0	3626.1	4149.5	3564.4
45°	3596.8	3616.7	3785.3	3964.3	4082.6	4005.1	3949.6	3960.1	3968.5	4490.8	3898.3
47.5°	3735.0	3747.6	3955.9	4208.2	4429.0	4409.2	4412.3	4399.7	4395.5	4921.0	4340.1
50°	3902.5	3931.8	4171.5	4473.0	4774.5	4906.4	4950.4	4955.6	4887.5	5390.0	4797.5
52.5°	4258.4	4294.0	4499.2	4763.0	5151.3	5428.7	5607.8	5572.2	5467.5	5844.3	5298.9
55°	4678.2	4705.4	4903.3	5176.5	5611.9	6001.4	6426.4	6411.7	6155.2	6322.7	5711.4
57.5°	4718.0	4748.3	5055.0	5473.8	6203.4	6709.0	7156.0	7203.1	6827.3	6661.9	6079.9
60°	4271.0	4332.7	4751.5	5314.6	6429.5	7660.5	7955.7	7965.2	7320.3	7006.3	6530.0
62.5°	3423.1	3452.4	3874.2	4609.1	6080.9	8215.4	9177.4	8978.5	7953.6	7539.1	7242.9
65°	1794.2	1913.6	2281.0	3094.4	4931.5	8021.7	10647.1	10592.7	9092.6	8302.2	7797.7
67.5°	1231.0	1230.0	1316.9	1613.1	2940.5	6906.8	11368.3	11967.1	10409.5	8563.9	7395.7
70°	936.9	940.0	1017.5	1210.1	1523.1	4597.6	10577.0	11600.7	10654.4	7775.7	5981.5
72.5°	621.8	628.1	756.8	977.7	1216.4	2253.8	8219.5	9282.0	8964.9	6245.3	4210.3
75°	371.6	376.9	469.0	710.8	1081.4	1261.4	5222.5	6416.9	6170.9	4304.5	2256.9
77.5°	152.8	157.0	240.8	442.8	791.4	979.8	2888.1	4198.7	3696.3	1711.5	616.6
80°	63.9	65.9	116.2	309.9	570.5	614.5	1337.8	1973.2	1514.7	368.5	188.4
82.5°	23.0	24.1	42.9	170.6	354.9	462.7	675.2	779.9	427.1	120.4	101.5
85°	1.0	1.0	10.5	57.6	135.0	130.9	386.3	373.7	141.3	50.2	60.7
87.5°	0.0	0.0	1.0	1.0	2.1	5.2	36.6	64.9	30.4	12.6	26.2
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°	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5
2.5°	3389.6	3334.1	3273.4	3216.8	3126.8	3073.4	3007.5	2978.2	2936.3	2925.8	2932.1
5°	3320.5	3225.2	3079.7	2947.8	2777.2	2640.1	2501.9	2443.3	2367.9	2317.6	2296.7
7.5°	3223.1	3098.6	2871.4	2631.7	2397.2	2147.0	1956.5	1830.9	1716.8	1654.0	1641.4
10°	3124.7	2962.5	2636.9	2293.6	1930.3	1630.9	1373.4	1182.9	1028.0	957.8	903.4
12.5°	3023.2	2821.1	2398.2	1950.2	1528.3	1120.1	801.9	616.6	505.6	461.6	469.0
15°	2930.0	2685.1	2161.7	1606.9	1076.1	676.2	442.8	373.7	347.5	339.2	338.1
17.5°	2841.0	2556.3	1926.1	1272.9	709.7	414.5	339.2	322.4	315.1	310.9	310.9
20°	2760.4	2432.8	1695.8	958.9	458.5	328.7	306.7	298.3	292.1	288.9	288.9
22.5°	2685.1	2313.4	1470.8	678.3	338.1	295.2	281.6	273.2	265.9	261.7	261.7
25°	2617.0	2205.6	1256.2	466.9	291.0	270.1	255.4	246.0	233.4	226.1	226.1
27.5°	2567.8	2109.3	1049.9	340.2	262.7	242.9	226.1	213.5	199.9	191.6	189.5
30°	2538.5	2027.7	841.6	279.5	236.6	216.7	197.8	182.1	166.4	158.1	157.0
32.5°	2521.8	1952.3	651.1	243.9	214.6	191.6	170.6	153.9	138.2	128.8	127.7
35°	2528.0	1893.7	487.8	219.8	193.7	169.6	146.6	129.8	116.2	107.8	105.7
37.5°	2582.5	1867.5	366.4	201.0	175.9	150.7	126.7	111.0	98.4	92.1	91.1
40°	2688.2	1872.7	287.9	186.3	161.2	131.9	108.9	94.2	84.8	79.6	78.5
42.5°	2852.6	1916.7	237.6	173.8	145.5	115.1	94.2	82.7	73.3	68.0	67.0
45°	3097.5	2007.8	207.3	159.1	128.8	99.4	81.7	71.2	62.8	56.5	55.5
47.5°	3452.4	2165.8	187.4	145.5	114.1	85.8	70.1	59.7	52.3	47.1	46.1
50°	3830.3	2355.3	170.6	131.9	101.5	74.3	59.7	49.2	42.9	37.7	36.6
52.5°	4233.3	2559.4	158.1	119.3	90.0	63.9	50.2	40.8	34.5	29.3	28.3
55°	4620.6	2764.6	143.4	111.0	76.4	54.4	41.9	33.5	27.2	23.0	23.0
57.5°	4997.5	2953.0	127.7	97.4	62.8	46.1	34.5	27.2	22.0	18.8	17.8
60°	5447.6	3213.7	109.9	82.7	52.3	38.7	28.3	22.0	17.8	14.7	14.7
62.5°	6116.5	3484.8	94.2	69.1	44.0	32.5	23.0	17.8	14.7	12.6	11.5
65°	6335.3	3338.3	79.6	56.5	35.6	26.2	18.8	15.7	12.6	11.5	10.5
67.5°	5751.2	2736.4	65.9	46.1	29.3	22.0	16.7	13.6	11.5	10.5	9.4
70°	4487.7	1941.8	51.3	34.5	24.1	17.8	14.7	12.6	10.5	9.4	9.4
72.5°	3052.5	1148.3	40.8	26.2	19.9	15.7	12.6	11.5	10.5	9.4	8.4
75°	1503.2	408.3	31.4	19.9	15.7	13.6	11.5	10.5	9.4	8.4	8.4
77.5°	405.1	113.1	24.1	15.7	12.6	10.5	10.5	10.5	9.4	7.3	7.3
80°	137.1	47.1	17.8	11.5	10.5	8.4	7.3	9.4	8.4	7.3	6.3
82.5°	75.4	23.0	12.6	9.4	7.3	6.3	6.3	6.3	6.3	5.2	5.2
85°	48.2	12.6	8.4	7.3	7.3	5.2	4.2	4.2	3.1	3.1	3.1
87.5°	22.0	7.3	7.3	6.3	6.3	5.2	3.1	2.1	1.0	1.0	1.0
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)