

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: P638037

Luminaire Tested: GWS-SA4E-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638037
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-SA4E-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17760.9 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

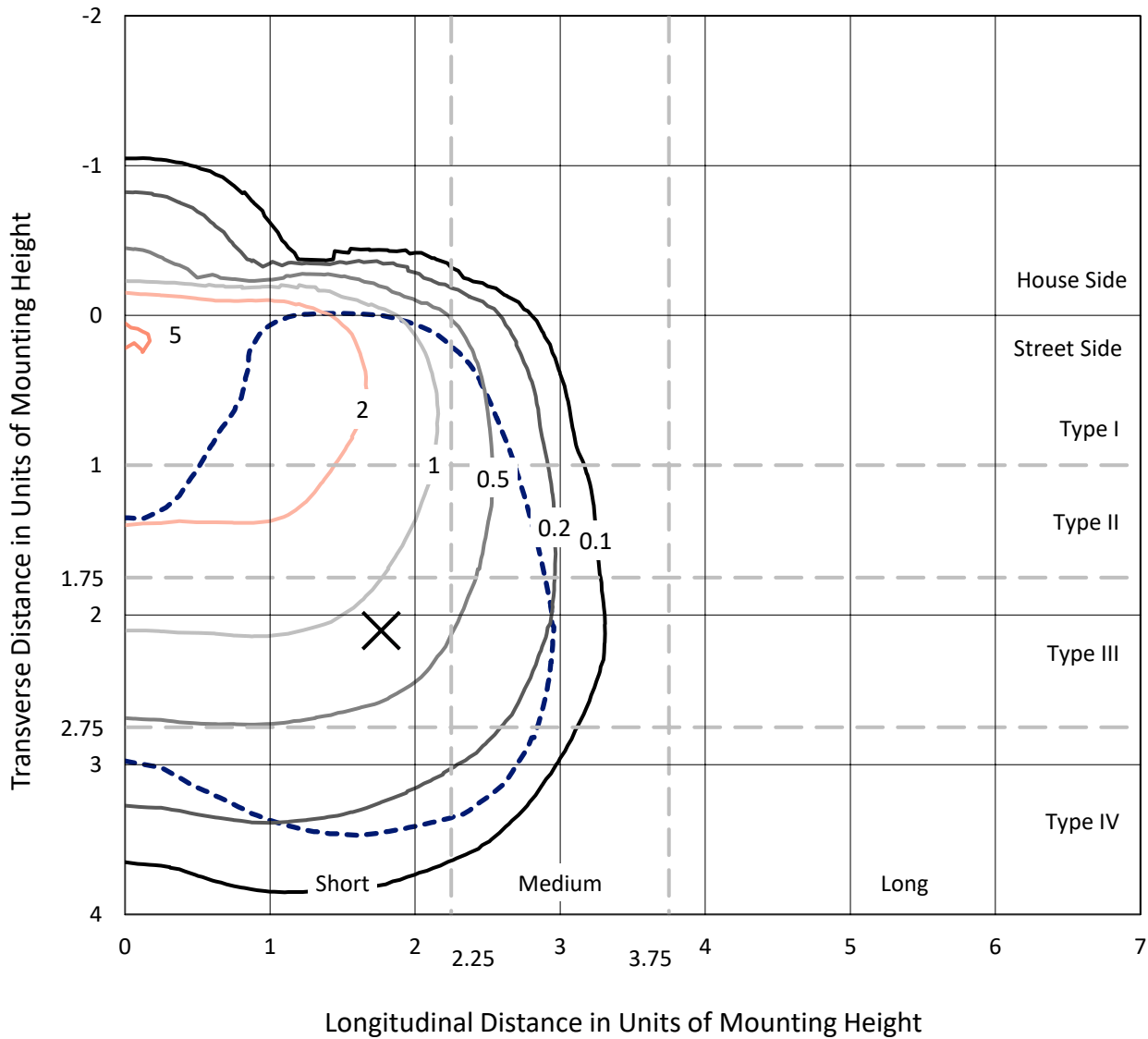
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

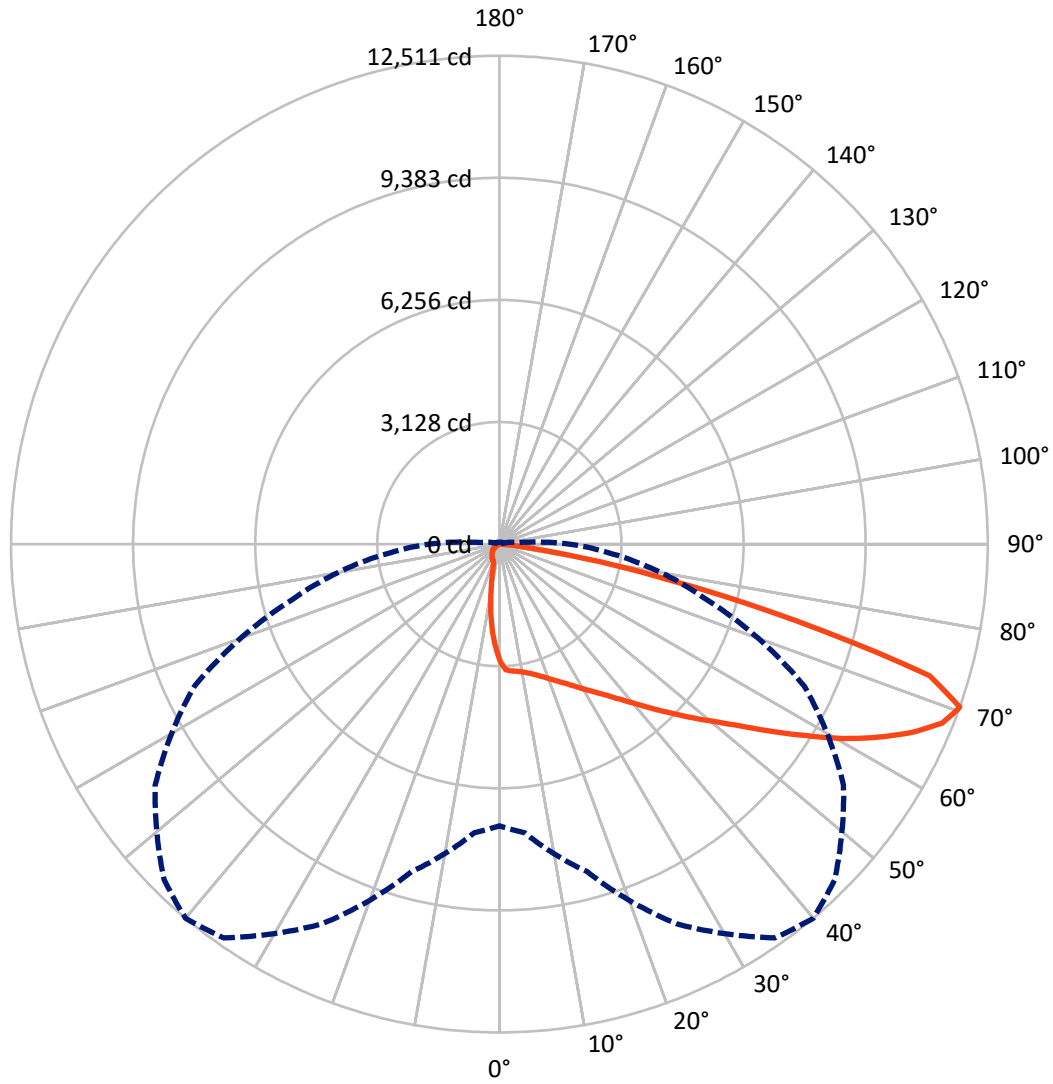
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1452.4	0.0	1452.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	16308.5	0.0	16308.5
	% Fixture	91.8	0.0	91.8
Total	Lumens	17760.9	0.0	17760.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.4
10°-20°	646.0	3.6
20°-30°	1081.3	6.1
30°-40°	1698.3	9.6
40°-50°	2686.3	15.1
50°-60°	3918.6	22.1
60°-70°	4857.6	27.4
70°-80°	2457.7	13.8
80°-90°	160.4	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°	17760.9	100.0
0°-180°	17760.9	100.0

Coefficient of Utilization



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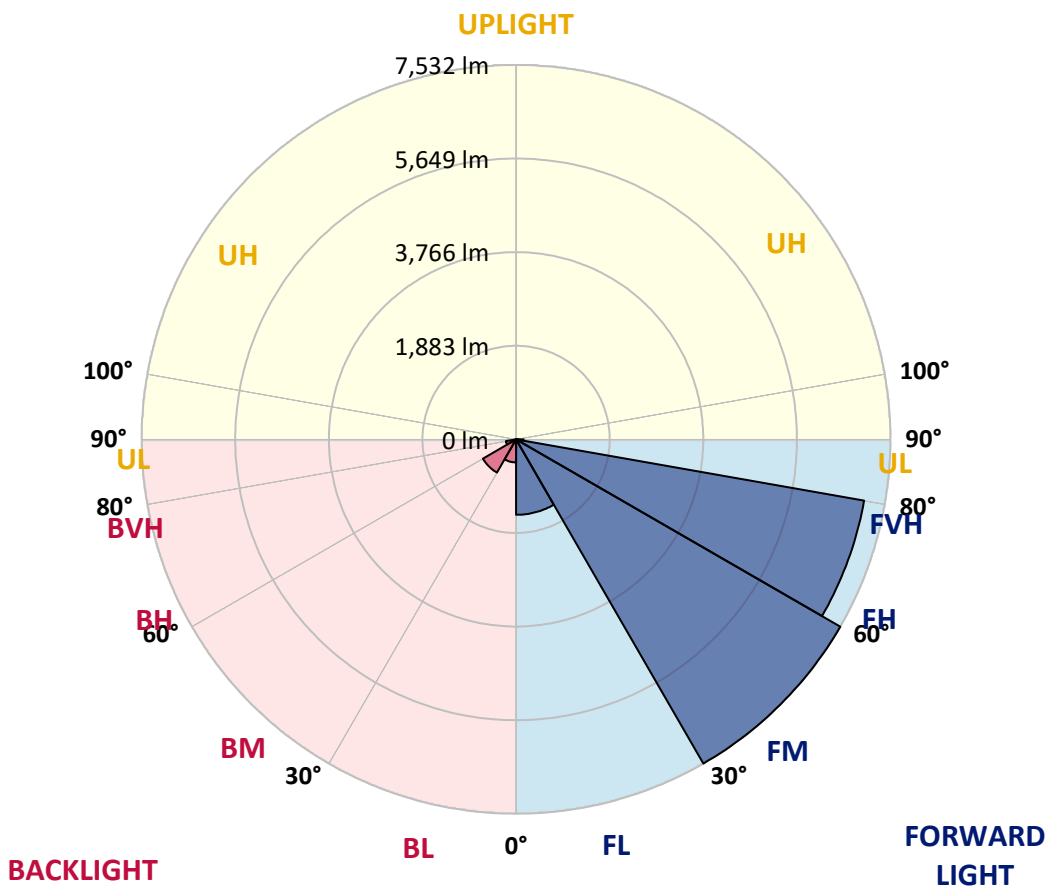
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.2	8.5			
FM (30°-60°)	7532.2	42.4			
FH (60°-80°)	7108.2	40.0			G3/7500
FVH (80°-90°)	149.9	0.8			G2/225
BL (0°-30°)	463.8	2.6	B1/500		
BM (30°-60°)	770.9	4.3	B1/1000		
BH (60°-80°)	207.1	1.2	B1/500		G1/500
BVH (80°-90°)	10.6	0.1			G1/100
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°	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8
2.5°	3240.0	3251.4	3249.7	3254.6	3243.3	3225.5	3222.3	3198.0	3154.4	3099.5	3038.1
5°	3306.3	3319.2	3309.5	3304.7	3283.7	3264.3	3259.4	3233.6	3183.5	3109.2	3002.5
7.5°	3362.9	3366.1	3359.6	3348.3	3317.6	3291.8	3274.0	3238.4	3178.6	3104.3	2981.5
10°	3372.6	3370.9	3374.2	3375.8	3356.4	3333.8	3319.2	3270.8	3194.8	3115.6	2983.1
12.5°	3361.2	3361.2	3382.3	3406.5	3406.5	3395.2	3380.6	3337.0	3248.1	3154.4	3015.4
15°	3375.8	3380.6	3421.0	3466.3	3480.8	3469.5	3463.1	3417.8	3325.7	3222.3	3073.6
17.5°	3427.5	3432.4	3497.0	3564.9	3582.6	3569.7	3556.8	3511.5	3413.0	3299.8	3139.9
20°	3503.5	3516.4	3598.8	3686.1	3702.2	3686.1	3660.2	3597.2	3498.6	3383.9	3202.9
22.5°	3642.4	3650.5	3739.4	3831.5	3839.6	3813.7	3774.9	3687.7	3584.3	3472.8	3274.0
25°	3826.7	3838.0	3926.8	4015.7	3994.7	3955.9	3902.6	3804.0	3686.1	3577.8	3364.5
27.5°	4046.4	4059.4	4146.6	4224.2	4169.2	4124.0	4064.2	3941.4	3821.8	3723.2	3480.8
30°	4284.0	4295.3	4372.9	4442.3	4369.6	4316.3	4245.2	4119.1	3997.9	3923.6	3645.7
32.5°	4513.4	4511.8	4586.2	4642.7	4568.4	4526.4	4461.7	4334.1	4237.1	4204.8	3891.3
35°	4726.8	4726.8	4788.2	4844.7	4791.4	4768.8	4709.0	4607.2	4552.2	4591.0	4219.3
37.5°	4941.7	4930.4	4988.5	5051.6	5046.7	5048.3	5014.4	4965.9	4969.2	5106.5	4670.2
40°	5119.4	5114.6	5182.5	5264.9	5329.5	5381.2	5360.2	5378.0	5479.8	5736.7	5247.1
42.5°	5261.6	5273.0	5360.2	5491.1	5654.3	5759.4	5773.9	5846.6	6108.4	6506.0	5898.3
45°	5424.9	5426.5	5547.7	5748.1	6008.2	6174.7	6232.9	6420.3	6792.0	7304.3	6612.6
47.5°	5625.2	5605.9	5741.6	6022.8	6399.3	6644.9	6748.4	6982.7	7558.0	8083.2	7194.4
50°	5846.6	5811.1	5964.6	6347.6	6837.2	7144.3	7354.3	7696.9	8317.5	8723.1	7627.4
52.5°	6103.6	6069.6	6244.2	6720.9	7362.4	7735.7	8005.6	8351.4	8968.7	9211.1	7886.0
55°	6430.0	6396.1	6580.3	7168.5	7983.0	8467.8	8750.6	9041.4	9574.7	9571.5	8073.5
57.5°	6792.0	6745.1	7000.4	7734.1	8757.0	9261.2	9548.9	9691.1	10035.3	9851.0	8199.5
60°	7207.3	7165.3	7519.2	8408.0	9650.7	10117.7	10298.7	10240.5	10413.4	10015.9	8155.9
62.5°	7582.2	7562.8	8002.4	9122.2	10502.3	10896.6	10946.7	10693.0	10691.4	10019.1	7861.8
65°	7971.7	8008.8	8661.7	9944.8	11358.8	11623.8	11538.1	11142.2	10802.9	9623.2	6992.4
67.5°	8117.1	8225.4	9096.4	10688.1	12034.2	12241.1	12090.8	11366.8	10339.1	8291.6	5324.7
70°	7218.6	7422.2	8685.9	10730.1	12313.8	12511.0	12150.6	10762.5	8619.7	5492.7	2916.9
72.5°	5489.5	5727.1	7238.0	8786.1	11074.3	11523.6	10907.9	8768.3	5555.8	2406.2	979.3
75°	3072.0	3328.9	5390.9	6615.8	7435.1	7845.6	7619.4	5625.2	2461.1	628.6	292.5
77.5°	1039.1	1124.7	2508.0	4093.3	4907.7	4539.3	3842.8	2794.0	905.0	239.2	155.1
80°	615.7	648.0	934.0	2037.8	2582.3	2141.2	1690.3	1032.6	460.6	127.7	108.3
82.5°	184.2	218.2	515.5	756.3	1011.6	630.2	533.3	589.8	239.2	69.5	90.5
85°	0.0	0.0	109.9	234.3	265.0	103.4	103.4	334.5	43.6	29.1	66.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	8.1	4.8	6.5	14.5
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°	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8
2.5°	2994.4	2937.9	2871.6	2808.6	2748.8	2671.2	2634.1	2588.8	2550.0	2529.0	2540.3
5°	2934.6	2845.7	2710.0	2572.6	2433.7	2302.8	2184.8	2105.6	2034.5	1997.4	2005.4
7.5°	2882.9	2763.3	2551.6	2327.0	2104.0	1879.4	1696.8	1554.6	1444.7	1399.4	1391.4
10°	2860.3	2710.0	2411.0	2087.9	1745.3	1443.1	1184.5	1027.8	916.3	861.3	871.0
12.5°	2871.6	2682.5	2291.5	1853.5	1409.1	1056.9	809.6	662.6	583.4	551.1	543.0
15°	2903.9	2676.1	2184.8	1614.4	1087.6	738.5	559.1	499.3	483.2	479.9	479.9
17.5°	2941.1	2677.7	2074.9	1372.0	825.8	547.8	478.3	467.0	462.2	458.9	460.6
20°	2978.3	2677.7	1948.9	1126.3	620.5	473.5	455.7	447.6	442.8	441.2	441.2
22.5°	3023.5	2677.7	1808.3	898.5	497.7	449.2	434.7	429.9	425.0	423.4	421.8
25°	3078.5	2679.3	1653.2	703.0	452.5	428.2	416.9	412.1	407.2	404.0	404.0
27.5°	3157.6	2692.2	1481.9	547.8	426.6	408.8	399.1	394.3	389.5	384.6	384.6
30°	3272.4	2724.6	1289.6	452.5	402.4	387.8	378.1	374.9	370.1	365.2	363.6
32.5°	3443.7	2781.1	1090.8	405.6	379.8	365.2	353.9	350.7	345.8	341.0	339.4
35°	3682.8	2884.5	896.9	376.5	350.7	336.1	329.7	328.0	321.6	316.7	316.7
37.5°	4033.5	3052.6	711.0	347.4	326.4	315.1	307.0	303.8	297.3	292.5	290.9
40°	4461.7	3270.8	552.7	324.8	303.8	292.5	284.4	279.6	271.5	265.0	261.8
42.5°	5007.9	3537.4	436.3	300.6	282.8	271.5	265.0	255.3	244.0	234.3	232.7
45°	5576.8	3812.1	360.4	277.9	263.4	253.7	245.6	232.7	216.5	205.2	202.0
47.5°	6013.1	3983.4	315.1	253.7	242.4	234.3	224.6	208.5	189.1	176.1	172.9
50°	6325.0	4009.3	281.2	231.1	224.6	216.5	202.0	182.6	161.6	148.7	145.4
52.5°	6478.5	3892.9	253.7	210.1	205.2	197.2	179.4	158.4	135.7	122.8	119.6
55°	6548.0	3673.1	227.9	192.3	185.8	176.1	156.8	134.1	111.5	100.2	97.0
57.5°	6520.5	3348.3	205.2	174.5	166.4	155.1	134.1	109.9	92.1	80.8	79.2
60°	6316.9	2892.6	182.6	156.8	147.1	134.1	113.1	90.5	74.3	66.3	64.6
62.5°	5877.3	2327.0	160.0	135.7	129.3	116.4	97.0	74.3	61.4	56.6	54.9
65°	4977.2	1645.1	137.4	114.7	111.5	98.6	80.8	61.4	53.3	50.1	48.5
67.5°	3577.8	1000.3	116.4	98.6	95.3	84.0	67.9	53.3	48.5	46.9	46.9
70°	1798.6	473.5	92.1	80.8	80.8	69.5	58.2	48.5	46.9	45.2	45.2
72.5°	610.8	202.0	69.5	63.0	66.3	59.8	50.1	45.2	45.2	45.2	45.2
75°	208.5	106.7	48.5	45.2	48.5	48.5	43.6	43.6	45.2	45.2	45.2
77.5°	135.7	71.1	33.9	30.7	37.2	37.2	37.2	40.4	43.6	43.6	43.6
80°	111.5	38.8	22.6	21.0	27.5	27.5	30.7	37.2	40.4	40.4	40.4
82.5°	95.3	24.2	12.9	14.5	19.4	21.0	25.9	30.7	35.6	37.2	37.2
85°	64.6	12.9	9.7	11.3	12.9	16.2	21.0	25.9	29.1	32.3	32.3
87.5°	17.8	4.8	6.5	8.1	8.1	11.3	16.2	19.4	22.6	24.2	24.2
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)