

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: P638270

Luminaire Tested: GWS-SA4E-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22923.2 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

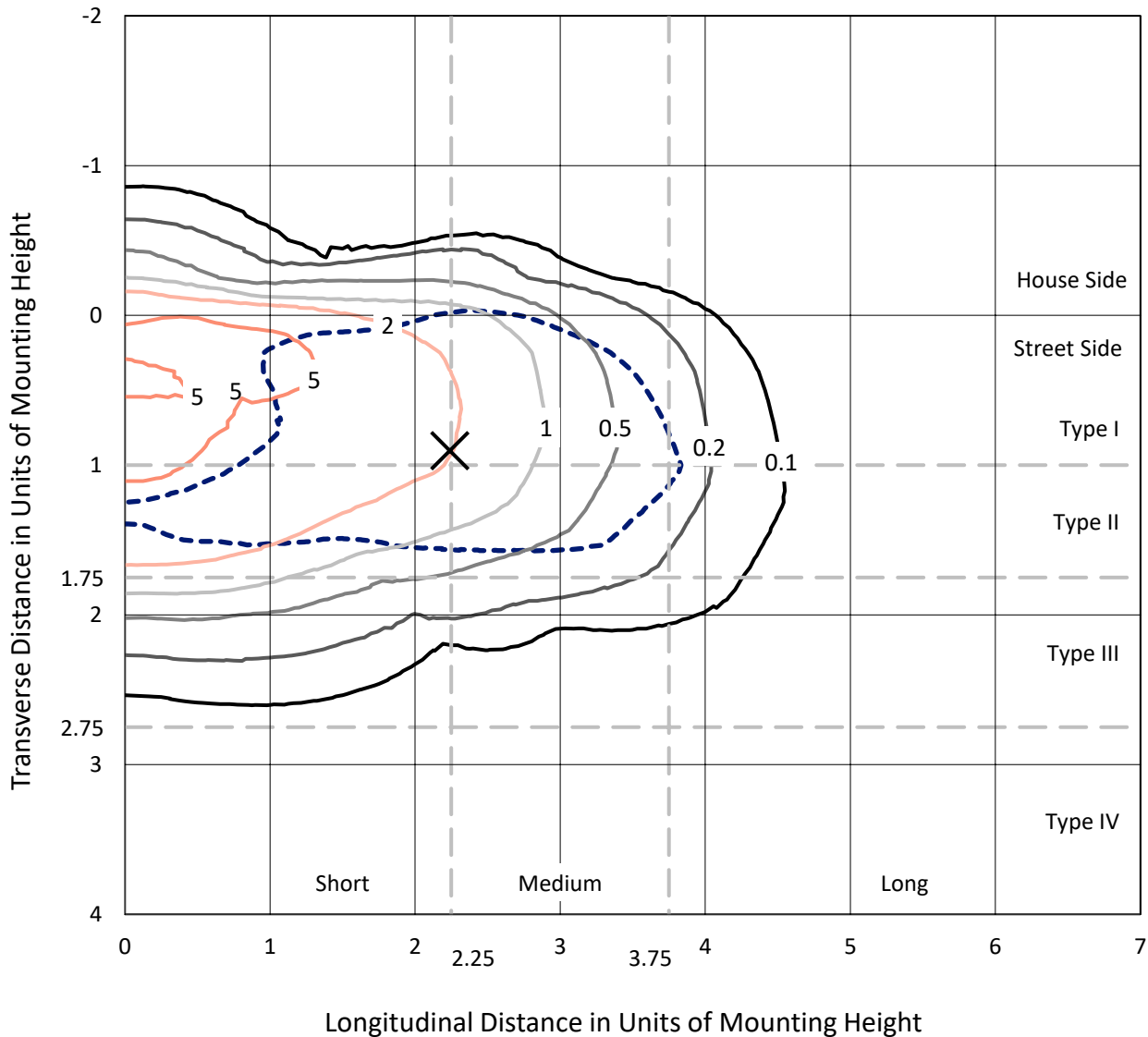
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

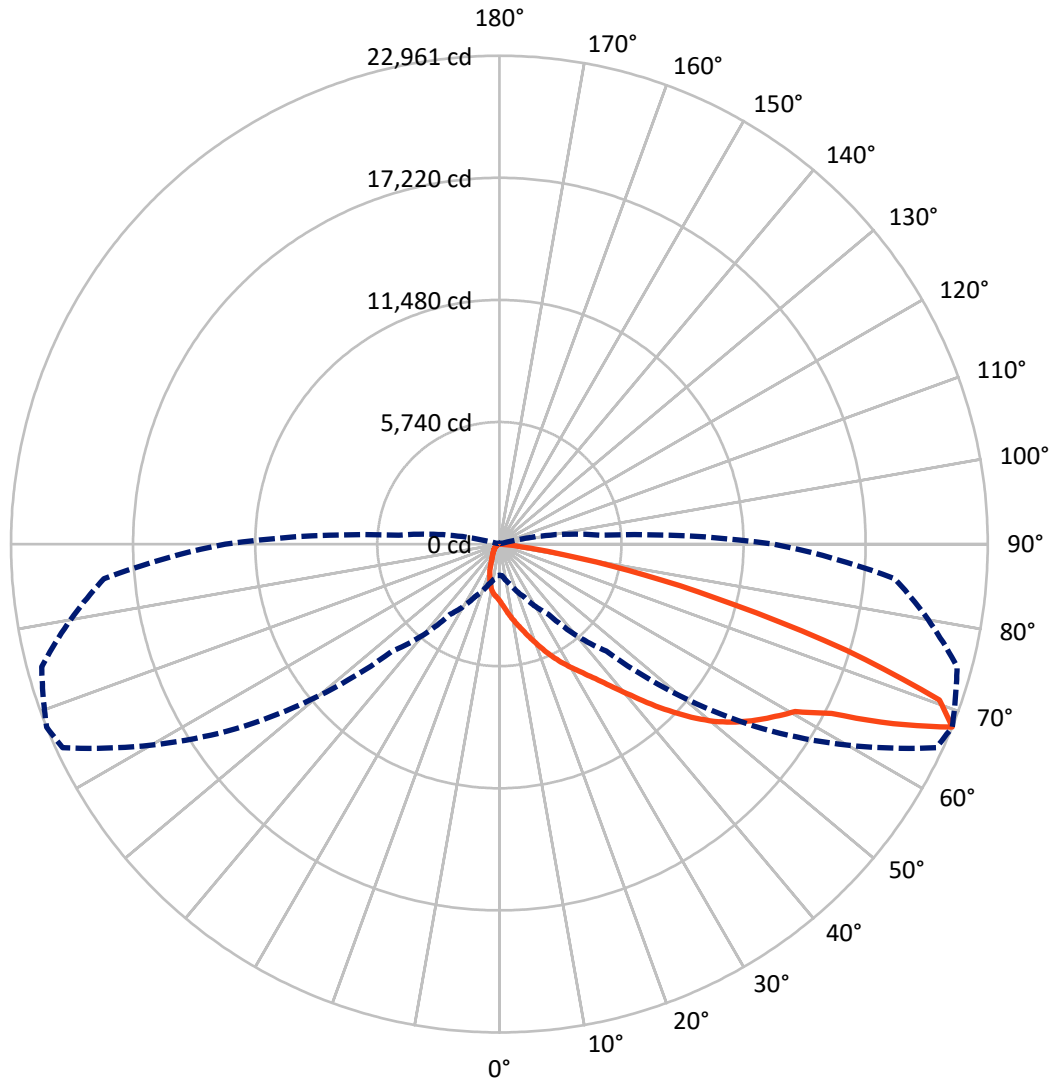
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.3	0.0	1655.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21267.9	0.0	21267.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	22923.2	0.0	22923.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	1.1
10°-20°	747.2	3.3
20°-30°	1284.0	5.6
30°-40°	2232.4	9.7
40°-50°	3895.3	17.0
50°-60°	5875.1	25.6
60°-70°	5891.2	25.7
70°-80°	2599.2	11.3
80°-90°	138.9	0.6
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°	22923.2	100.0
0°-180°	22923.2	100.0

Coefficient of Utilization



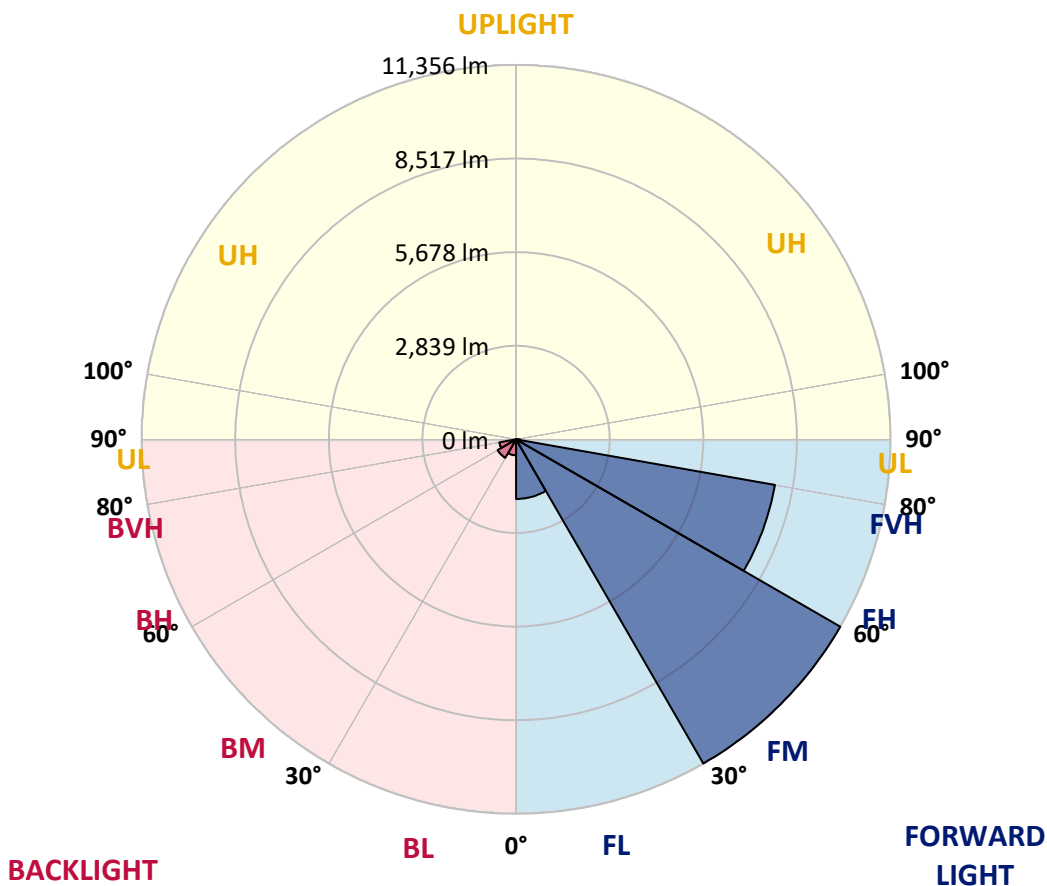
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1807.0	7.9			
FM (30°-60°)	11356.1	49.5			
FH (60°-80°)	7973.7	34.8			G4/12000
FVH (80°-90°)	131.0	0.6			G2/225
BL (0°-30°)	484.3	2.1	B1/500		
BM (30°-60°)	646.6	2.8	B1/1000		
BH (60°-80°)	516.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7
2.5°	3106.4	3126.2	3106.4	3110.8	3053.8	3027.5	2970.4	2891.4	2871.7	2821.2	2744.5
5°	3486.0	3503.5	3483.8	3479.4	3413.6	3365.3	3271.0	3135.0	3095.5	2996.7	2845.4
7.5°	3692.2	3703.2	3709.7	3720.7	3696.6	3657.1	3571.5	3402.6	3360.9	3200.8	2988.0
10°	3714.1	3722.9	3755.8	3821.6	3869.9	3894.0	3845.8	3690.0	3624.2	3468.4	3163.5
12.5°	3652.7	3665.9	3718.5	3828.2	3962.0	4084.9	4115.6	3979.6	3920.3	3720.7	3369.7
15°	3571.5	3582.5	3654.9	3804.1	4005.9	4231.9	4359.1	4299.9	4234.1	4025.6	3597.9
17.5°	3446.5	3461.8	3562.8	3764.6	4025.6	4348.1	4622.4	4642.1	4596.0	4370.1	3850.1
20°	3376.3	3387.2	3477.2	3685.6	4012.5	4433.7	4868.1	5054.5	5004.1	4767.2	4139.7
22.5°	3435.5	3444.3	3503.5	3665.9	3968.6	4482.0	5096.2	5467.0	5438.5	5192.8	4444.7
25°	3747.0	3775.6	3740.5	3769.0	3988.4	4508.3	5280.5	5879.4	5886.0	5638.1	4760.6
27.5°	4378.9	4341.6	4258.2	4115.6	4141.9	4578.5	5438.5	6267.7	6324.8	6072.5	5041.4
30°	5021.6	4999.7	4949.2	4727.7	4543.4	4734.3	5572.3	6664.8	6754.8	6500.3	5291.5
32.5°	5743.4	5765.3	5675.4	5409.9	5096.2	5050.2	5710.5	7042.1	7211.1	6985.1	5585.4
35°	6605.6	6612.2	6434.5	6140.5	5785.1	5572.3	5958.4	7459.0	7770.5	7603.8	5978.1
37.5°	7445.8	7485.3	7388.8	6925.9	6610.0	6221.7	6368.6	7994.3	8433.0	8367.2	6471.8
40°	8189.5	8250.9	8220.2	7772.7	7358.1	7031.2	7004.8	8621.7	9233.8	9308.4	7123.3
42.5°	8781.8	8821.3	8845.5	8527.4	8161.0	7976.7	7790.2	9350.0	10179.3	10484.2	7921.9
45°	9407.1	9420.2	9470.7	9255.7	8935.4	8950.8	8718.2	10234.1	11175.3	11787.4	8838.9
47.5°	10203.4	10247.3	10223.2	9997.2	9707.6	9880.9	9676.9	11144.6	12158.1	13178.2	9777.8
50°	11173.1	11219.2	11197.2	10934.0	10611.5	10683.9	10556.6	12028.7	13105.8	14490.1	10558.8
52.5°	11673.3	11710.6	11982.6	12101.1	11932.2	11471.5	11306.9	13000.5	13906.6	15569.5	11276.2
55°	11432.0	11458.3	12050.6	12550.8	13169.5	12708.8	12061.6	13750.8	14613.0	16411.9	11809.3
57.5°	10431.6	10574.2	11379.3	12226.1	13527.1	13930.7	13285.7	14566.9	15293.1	16997.7	12333.6
60°	8380.4	8373.8	9527.7	11048.0	12829.4	14266.4	15014.5	15670.4	15975.4	17447.4	13035.6
62.5°	4631.1	4672.8	6208.5	8211.4	10890.1	13397.6	16311.0	17576.8	17530.8	18232.8	14134.7
65°	2305.7	2389.1	3222.7	4703.5	7246.2	11072.2	16534.8	20485.8	20354.2	20082.2	16405.3
67.5°	1463.3	1496.2	1956.9	2733.5	4027.8	7116.7	15141.7	22655.5	22960.5	22276.0	18658.4
70°	947.7	1002.6	1360.2	1869.1	2430.7	3668.1	11091.9	21249.3	21949.1	22034.7	17254.3
72.5°	515.5	555.0	868.8	1333.8	1755.1	1834.0	6230.4	15946.8	17072.3	18691.3	13498.5
75°	294.0	322.5	476.1	906.0	1287.8	1116.7	2762.0	10675.1	11392.5	13358.1	9672.5
77.5°	177.7	201.8	267.6	441.0	807.3	745.9	1044.3	6498.1	6954.4	7970.1	5076.5
80°	81.2	96.5	168.9	243.5	441.0	353.2	399.3	3029.7	3128.4	3271.0	1680.5
82.5°	37.3	43.9	76.8	144.8	250.1	204.0	153.6	699.8	985.0	932.4	427.8
85°	4.4	4.4	28.5	59.2	70.2	52.7	63.6	158.0	199.6	280.8	122.9
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	13.2	19.7	28.5	46.1	30.7
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°	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7
2.5°	2709.4	2647.9	2593.1	2511.9	2457.1	2395.6	2354.0	2303.5	2283.8	2268.4	2246.5
5°	2770.8	2672.1	2538.2	2389.1	2266.2	2149.9	2042.4	1972.2	1910.8	1902.0	1871.3
7.5°	2871.7	2724.7	2498.8	2255.2	2046.8	1853.8	1702.4	1579.5	1518.1	1498.4	1463.3
10°	3005.5	2803.7	2439.5	2066.6	1766.0	1535.7	1364.6	1226.3	1129.8	1094.7	1068.4
12.5°	3154.7	2876.1	2345.2	1834.0	1491.8	1228.5	1011.3	864.4	802.9	781.0	761.3
15°	3325.8	2944.1	2196.0	1601.5	1224.1	903.9	750.3	686.7	660.3	653.8	647.2
17.5°	3490.4	2988.0	2018.3	1360.2	941.1	702.0	629.6	605.5	598.9	592.3	587.9
20°	3676.8	3018.7	1809.9	1132.0	730.5	594.5	559.4	541.9	528.7	515.5	513.4
22.5°	3867.7	3018.7	1583.9	908.2	612.1	533.1	493.6	460.7	436.6	423.4	419.0
25°	4049.8	2977.0	1360.2	726.2	539.7	473.9	423.4	386.1	353.2	337.8	333.5
27.5°	4179.2	2869.5	1164.9	614.3	489.2	421.2	359.8	318.1	291.8	276.4	274.2
30°	4260.4	2709.4	985.0	548.5	445.3	366.4	304.9	269.8	250.1	239.1	234.7
32.5°	4321.8	2511.9	824.9	502.4	403.7	318.1	265.5	236.9	219.4	210.6	208.4
35°	4444.7	2325.4	706.4	460.7	359.8	278.6	232.5	210.6	197.4	186.5	184.3
37.5°	4615.8	2169.7	612.1	423.4	318.1	247.9	210.6	190.9	179.9	168.9	166.7
40°	4868.1	2071.0	541.9	386.1	280.8	223.8	193.1	175.5	160.1	149.2	147.0
42.5°	5256.4	2024.9	495.8	348.8	247.9	201.8	177.7	155.8	140.4	129.4	127.2
45°	5719.3	2049.0	456.3	311.5	226.0	186.5	158.0	136.0	120.7	109.7	107.5
47.5°	6215.1	2134.6	423.4	276.4	204.0	171.1	140.4	116.3	103.1	92.1	89.9
50°	6732.8	2275.0	394.9	243.5	186.5	153.6	120.7	100.9	87.8	79.0	76.8
52.5°	7182.5	2465.8	366.4	219.4	171.1	136.0	105.3	87.8	74.6	65.8	63.6
55°	7612.5	2645.7	344.4	197.4	153.6	118.5	92.1	74.6	63.6	54.8	52.7
57.5°	8079.8	2836.6	318.1	177.7	138.2	105.3	81.2	63.6	54.8	46.1	43.9
60°	8759.9	3119.6	278.6	162.3	120.7	92.1	70.2	57.0	48.3	37.3	35.1
62.5°	9740.5	3635.1	234.7	140.4	103.1	79.0	59.2	48.3	39.5	30.7	26.3
65°	11574.6	4512.7	193.1	116.3	83.4	65.8	50.5	39.5	30.7	21.9	19.7
67.5°	12895.2	4740.8	155.8	94.3	68.0	50.5	41.7	30.7	21.9	15.4	13.2
70°	11274.0	3404.8	120.7	76.8	57.0	39.5	32.9	24.1	15.4	11.0	8.8
72.5°	8494.4	2224.5	89.9	59.2	43.9	32.9	24.1	19.7	13.2	8.8	6.6
75°	5986.9	1285.6	65.8	43.9	30.7	24.1	19.7	15.4	11.0	6.6	6.6
77.5°	3069.1	530.9	46.1	30.7	21.9	15.4	13.2	8.8	8.8	6.6	4.4
80°	932.4	175.5	26.3	19.7	15.4	11.0	6.6	6.6	6.6	4.4	2.2
82.5°	212.8	57.0	15.4	15.4	11.0	8.8	6.6	2.2	2.2	0.0	0.0
85°	54.8	17.6	13.2	11.0	11.0	8.8	4.4	2.2	0.0	0.0	0.0
87.5°	19.7	11.0	11.0	11.0	8.8	6.6	4.4	0.0	0.0	0.0	0.0
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)