

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P456238

Luminaire Tested: **GALN-SA7C-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40880 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

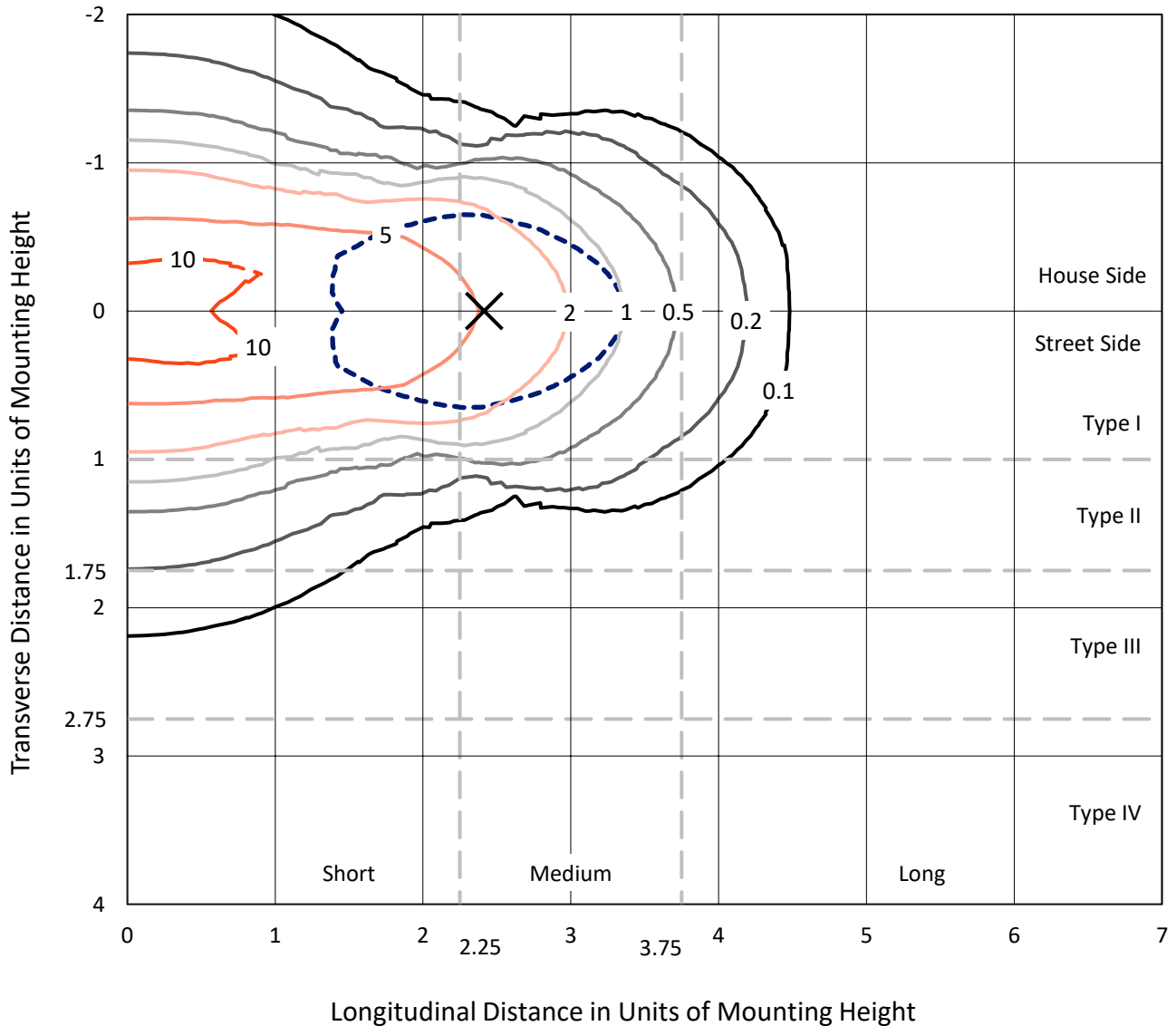
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

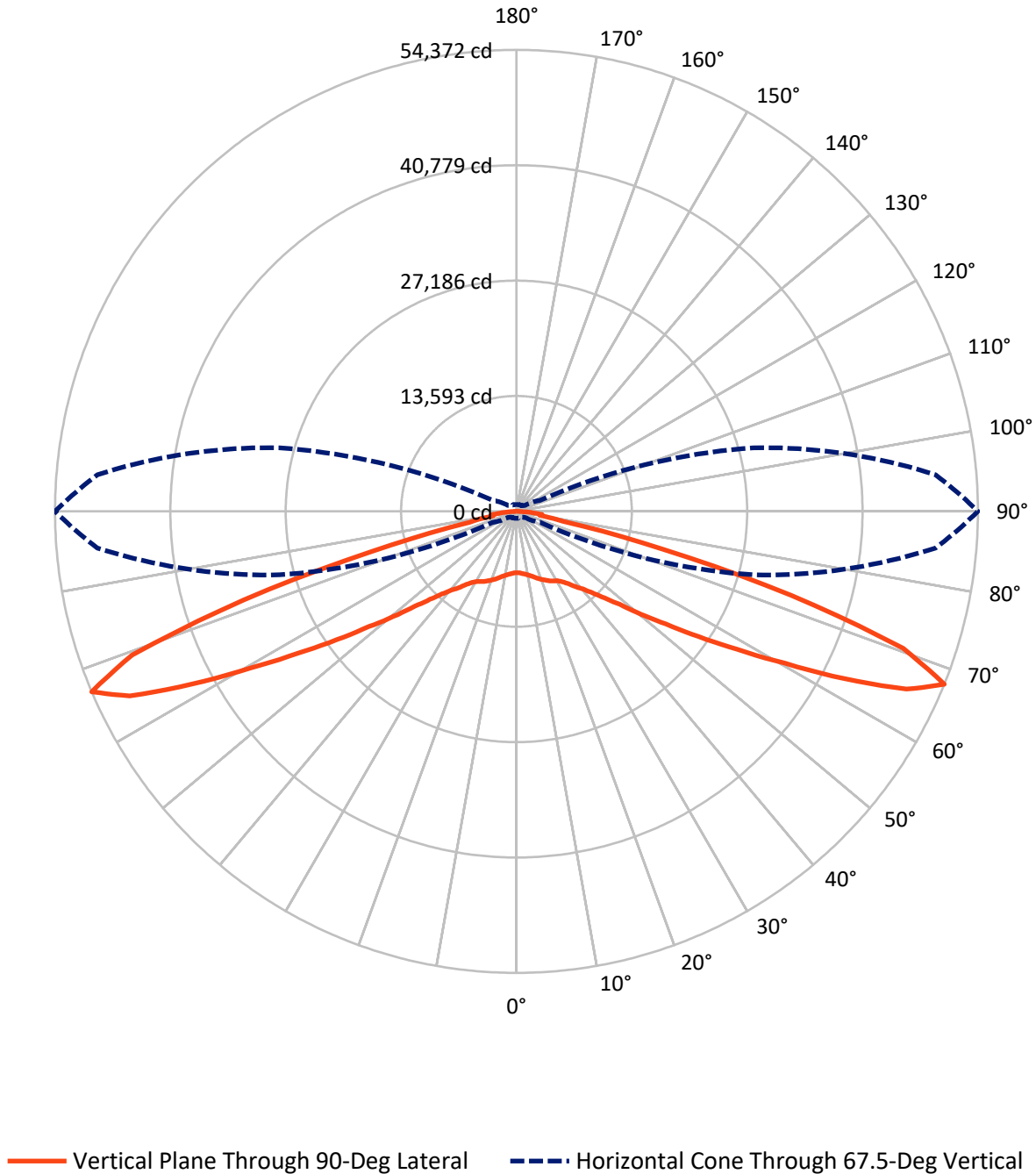
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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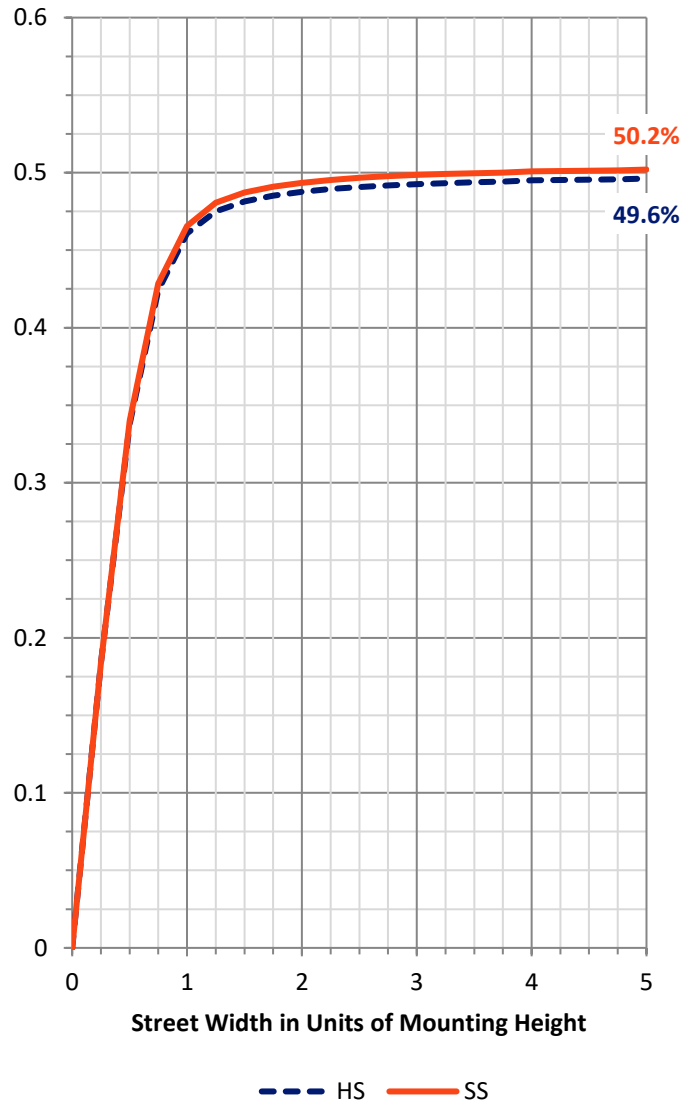
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20440.0	0.0	20440.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20440.0	0.0	20440.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40880.0	0.0	40880.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.5	1.8
10°-20°	2308.5	5.6
20°-30°	3863.9	9.5
30°-40°	5234.5	12.8
40°-50°	6630.4	16.2
50°-60°	8283.0	20.3
60°-70°	9736.3	23.8
70°-80°	3724.6	9.1
80°-90°	377.3	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°	40880.0	100.0
0°-180°	40880.0	100.0



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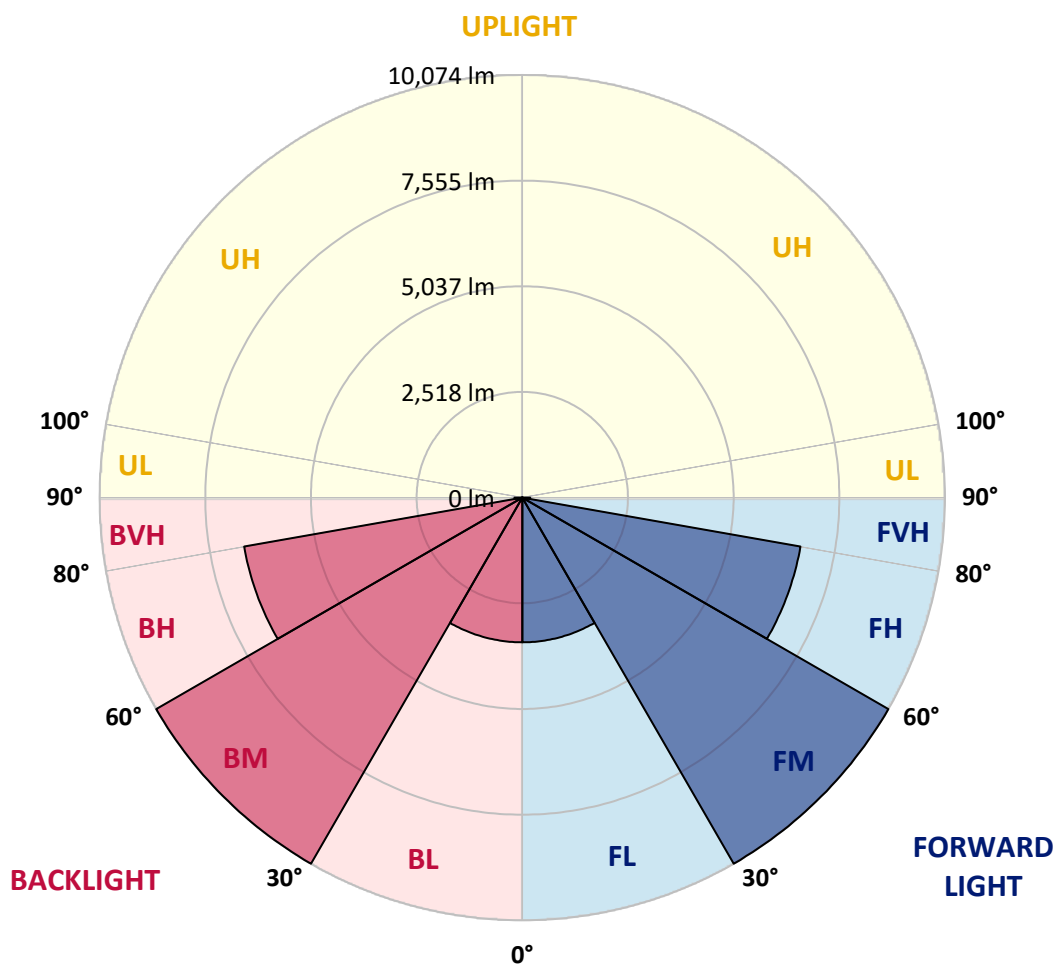
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3446.9	8.4			
FM (30°-60°)	10073.9	24.6			
FH (60°-80°)	6730.4	16.5			G3/7500
FVH (80°-90°)	188.7	0.5			G2/225
BL (0°-30°)	3446.9	8.4	B4/5000		
BM (30°-60°)	10073.9	24.6	B5		
BH (60°-80°)	6730.4	16.5	B5		G5
BVH (80°-90°)	188.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7237.0	7237.0	7237.0	7237.0	7237.0	7237.0	7237.0	7237.0	7237.0	7237.0	7237.0
2.5°	7329.8	7325.3	7327.6	7325.3	7332.1	7327.6	7300.4	7277.8	7259.7	7261.9	7255.1
5°	7486.0	7488.3	7490.6	7479.2	7495.1	7486.0	7443.0	7406.8	7370.6	7357.0	7352.5
7.5°	7615.1	7626.4	7633.2	7644.5	7671.7	7671.7	7649.0	7597.0	7517.7	7472.5	7470.2
10°	7744.1	7753.2	7773.5	7809.7	7855.0	7898.0	7889.0	7818.8	7716.9	7640.0	7621.9
12.5°	7789.4	7800.7	7868.6	7972.7	8074.6	8158.4	8158.4	8101.8	7970.5	7852.8	7818.8
15°	7630.9	7651.3	7773.5	7995.4	8262.5	8445.8	8486.6	8407.4	8267.0	8085.9	8045.2
17.5°	7316.3	7366.1	7544.9	7873.1	8316.8	8697.1	8814.8	8776.3	8595.2	8364.4	8316.8
20°	6979.0	7033.3	7223.5	7658.1	8271.5	8844.3	9186.1	9195.1	8971.0	8636.0	8565.8
22.5°	6607.7	6648.5	6893.0	7402.3	8135.7	8878.2	9505.3	9661.5	9358.1	8907.6	8808.0
25°	6191.2	6236.5	6492.3	7042.4	7879.9	8839.7	9797.3	10141.4	9763.3	9197.4	9070.6
27.5°	5792.8	5810.9	6084.8	6643.9	7542.6	8740.1	10012.3	10582.8	10211.5	9437.3	9276.6
30°	5410.2	5453.2	5695.5	6247.8	7155.5	8545.4	10197.9	11085.3	10693.7	9688.6	9482.6
32.5°	5005.0	5057.1	5319.7	5878.8	6768.4	8253.4	10311.1	11635.4	11366.0	10096.1	9876.5
35°	4615.7	4649.6	4914.5	5457.8	6390.4	7913.9	10331.5	12255.6	12233.0	10714.1	10422.1
37.5°	4217.3	4267.1	4534.2	5054.8	5989.7	7554.0	10229.6	12914.4	13278.8	11572.0	11257.4
40°	3834.7	3877.7	4140.3	4665.5	5534.7	7114.8	9987.4	13516.5	14499.0	12454.8	12008.9
42.5°	3418.2	3429.5	3717.0	4251.2	5088.8	6605.5	9638.8	14053.0	15859.4	13638.8	13084.2
45°	2945.1	2974.5	3241.6	3766.8	4577.2	6035.0	9165.7	14496.7	17584.4	15279.9	14523.9
47.5°	2472.0	2496.9	2741.3	3259.7	4018.1	5380.8	8436.8	14886.1	19354.6	17364.8	16373.3
50°	2010.2	2023.7	2222.9	2682.5	3388.8	4692.6	7533.6	15010.6	21355.7	20316.7	19051.3
52.5°	1589.1	1609.5	1761.2	2121.1	2716.4	3880.0	6557.9	14702.7	23691.8	23816.3	22032.5
55°	1288.0	1294.8	1408.0	1672.9	2123.3	3028.8	5380.8	13844.8	26204.5	28300.7	26025.7
57.5°	1109.2	1113.7	1177.1	1324.3	1634.4	2284.1	4174.3	12221.7	28461.4	33554.8	30630.1
60°	1007.3	1009.6	1045.8	1131.8	1294.8	1752.1	2990.3	9930.8	30688.9	39401.9	36352.7
62.5°	944.0	944.0	968.9	1016.4	1095.6	1344.6	2166.4	7164.6	32214.6	45335.0	43406.4
65°	882.8	882.8	901.0	934.9	977.9	1100.2	1600.4	4672.3	32176.2	49656.4	50500.8
67.5°	812.7	812.7	826.2	860.2	885.1	946.2	1236.0	3060.5	28902.9	49561.3	54371.7
70°	728.9	728.9	747.0	776.4	796.8	835.3	975.7	2093.9	21233.5	42317.5	48354.8
72.5°	645.2	647.4	658.7	688.2	704.0	726.6	810.4	1466.9	13025.3	28814.6	33810.5
75°	552.3	556.9	568.2	597.6	611.2	620.3	683.6	1045.8	6589.6	15535.7	17688.5
77.5°	445.9	455.0	461.8	493.5	502.5	516.1	563.7	756.1	2893.0	5582.3	5632.1
80°	326.0	337.3	357.7	387.1	393.9	402.9	430.1	536.5	1310.7	2548.9	2768.5
82.5°	240.0	255.8	230.9	269.4	269.4	258.1	303.3	359.9	602.1	2524.0	3019.8
85°	131.3	133.6	120.0	138.1	147.1	144.9	160.7	176.6	292.0	1684.2	1736.3
87.5°	31.7	34.0	36.2	43.0	52.1	52.1	56.6	49.8	95.1	545.6	312.4
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)