

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: P457108

Luminaire Tested: **GALN-SA8B-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457108
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-SA8B-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36448 lumens
Efficiency: N/A
Efficacy: 112.1 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): 325
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



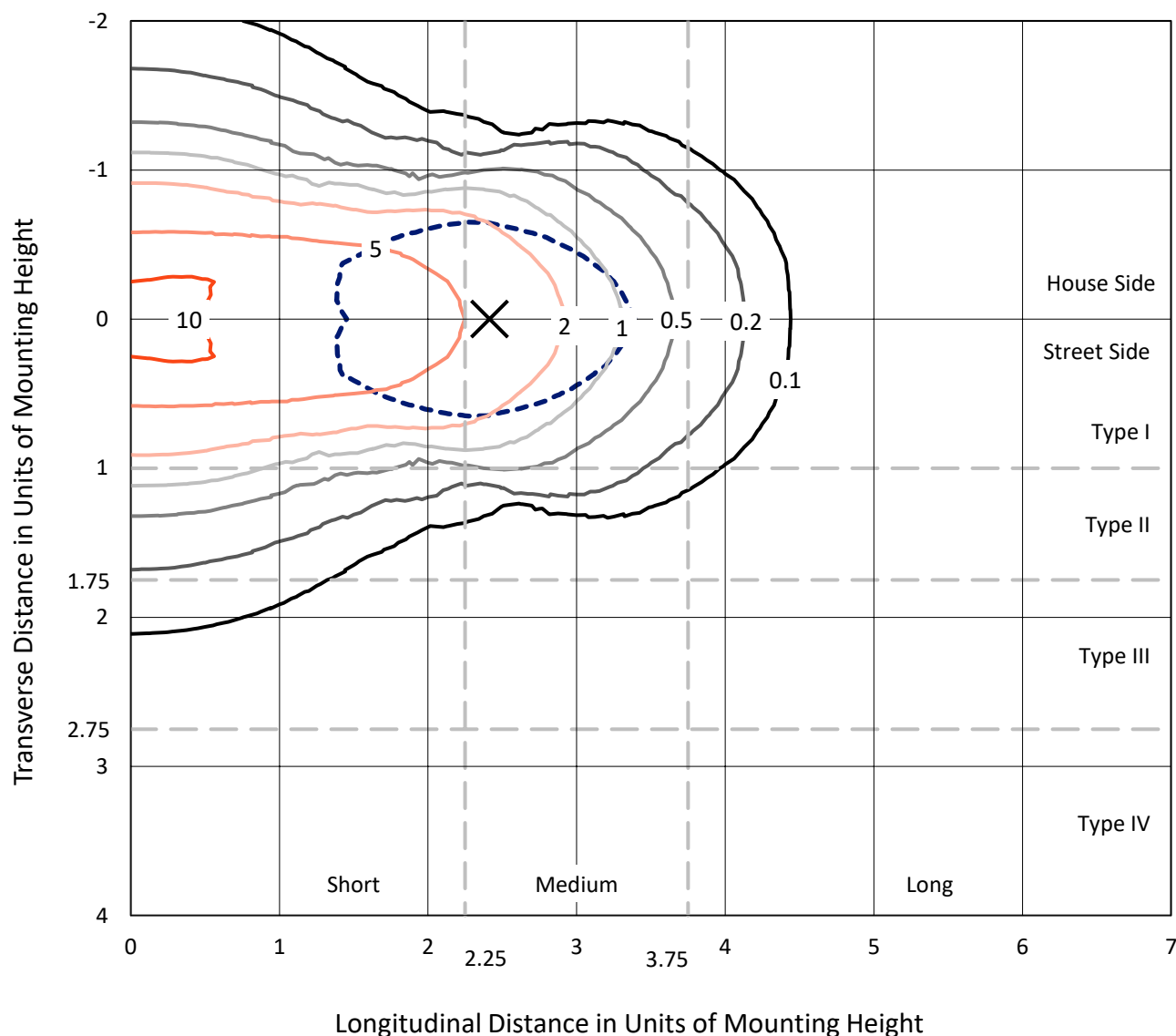
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

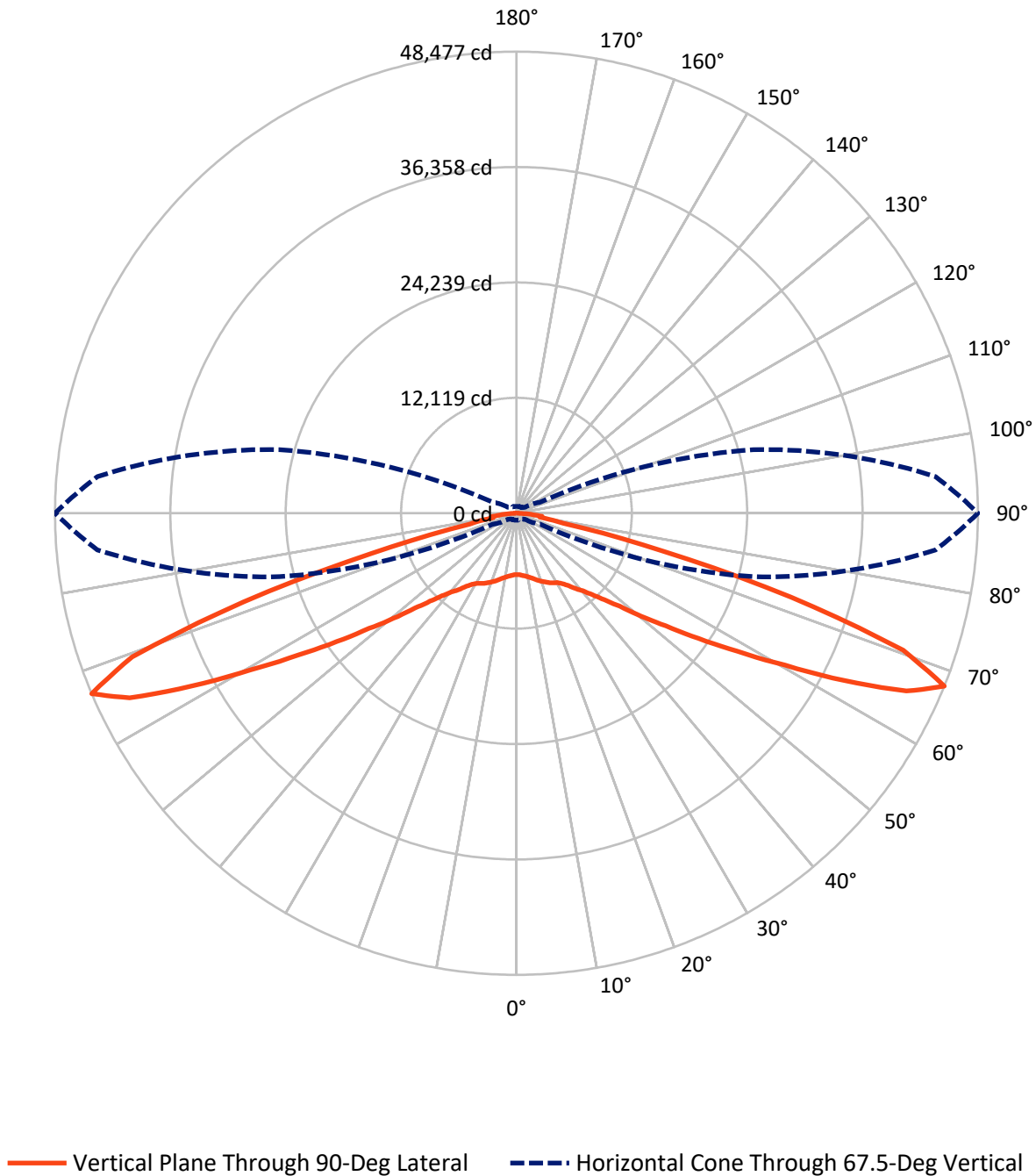


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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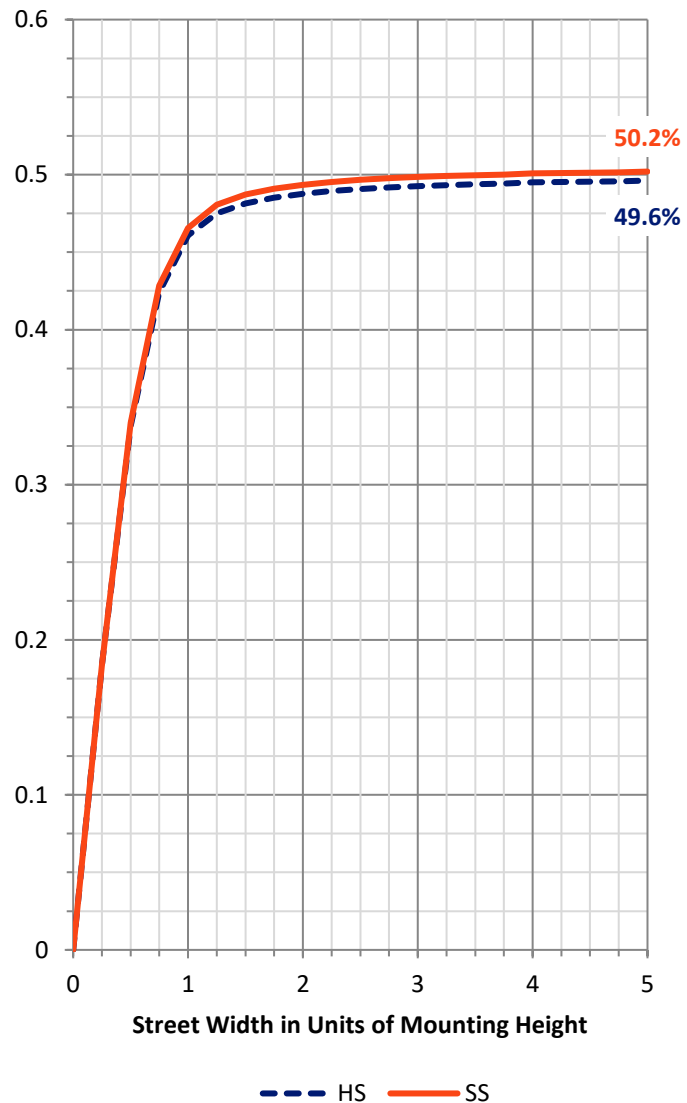
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18224.0	0.0	18224.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18224.0	0.0	18224.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36448.0	0.0	36448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.3	1.8
10°-20°	2058.2	5.6
20°-30°	3445.0	9.5
30°-40°	4667.0	12.8
40°-50°	5911.5	16.2
50°-60°	7385.0	20.3
60°-70°	8680.7	23.8
70°-80°	3320.8	9.1
80°-90°	336.4	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°	36448.0	100.0
0°-180°	36448.0	100.0

Coefficient of Utilization



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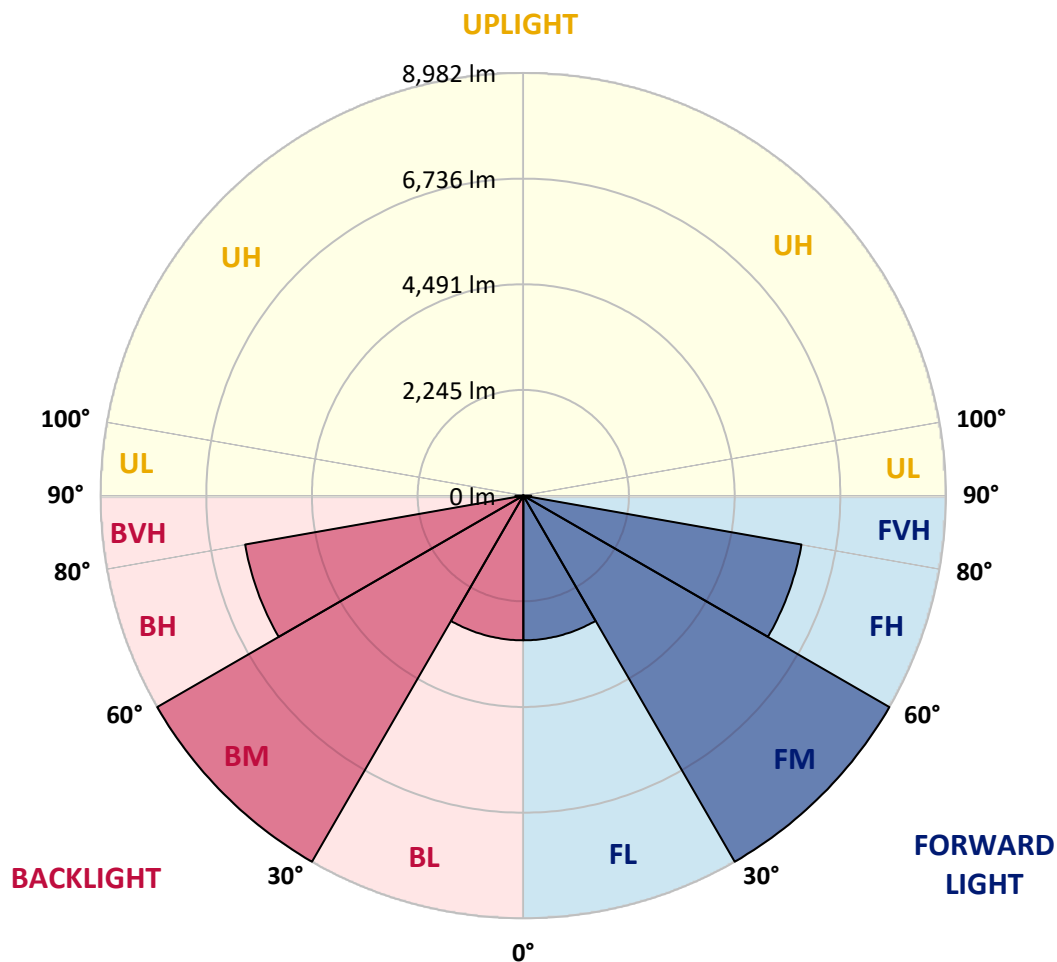
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3073.2	8.4			
FM	(30°-60°)	8981.8	24.6			
FH	(60°-80°)	6000.8	16.5			G3/7500
FVH	(80°-90°)	168.2	0.5			G2/225
BL	(0°-30°)	3073.2	8.4	B4/5000		
BM	(30°-60°)	8981.8	24.6	B5		
BH	(60°-80°)	6000.8	16.5	B5		G5
BVH	(80°-90°)	168.2	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°	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4
2.5°	6535.2	6531.1	6533.2	6531.1	6537.2	6533.2	6508.9	6488.8	6472.6	6474.6	6468.6
5°	6674.4	6676.5	6678.5	6668.4	6682.5	6674.4	6636.1	6603.8	6571.5	6559.4	6555.4
7.5°	6789.5	6799.6	6805.6	6815.7	6839.9	6839.9	6819.8	6773.3	6702.7	6662.3	6660.3
10°	6904.5	6912.6	6930.8	6963.1	7003.4	7041.8	7033.7	6971.1	6880.3	6811.7	6795.5
12.5°	6944.9	6955.0	7015.5	7108.4	7199.2	7273.9	7273.9	7223.4	7106.4	7001.4	6971.1
15°	6803.6	6821.8	6930.8	7128.6	7366.7	7530.2	7566.5	7495.9	7370.7	7209.3	7173.0
17.5°	6523.1	6567.5	6726.9	7019.6	7415.1	7754.2	7859.2	7824.9	7663.4	7457.5	7415.1
20°	6222.3	6270.8	6440.3	6827.8	7374.8	7885.4	8190.2	8198.2	7998.4	7699.7	7637.2
22.5°	5891.3	5927.7	6145.7	6599.8	7253.7	7915.7	8474.7	8614.0	8343.6	7941.9	7853.1
25°	5520.0	5560.4	5788.4	6278.9	7025.6	7881.4	8735.1	9041.9	8704.8	8200.3	8087.2
27.5°	5164.8	5180.9	5425.1	5923.6	6724.9	7792.6	8926.8	9435.4	9104.4	8414.2	8270.9
30°	4823.7	4862.0	5078.0	5570.4	6379.8	7619.0	9092.3	9883.5	9534.3	8638.2	8454.6
32.5°	4462.4	4508.8	4743.0	5241.5	6034.6	7358.6	9193.3	10373.9	10133.8	9001.5	8805.7
35°	4115.3	4145.5	4381.7	4866.1	5697.6	7055.9	9211.4	10927.0	10906.8	9552.5	9292.1
37.5°	3760.0	3804.5	4042.6	4506.8	5340.4	6735.0	9120.6	11514.3	11839.2	10317.4	10036.9
40°	3419.0	3457.3	3691.4	4159.7	4934.7	6343.4	8904.6	12051.1	12927.1	11104.6	10707.0
42.5°	3047.6	3057.7	3314.0	3790.3	4537.1	5889.3	8593.8	12529.5	14140.0	12160.1	11665.6
45°	2625.8	2652.0	2890.2	3358.4	4081.0	5380.7	8172.0	12925.0	15678.0	13623.4	12949.3
47.5°	2204.0	2226.2	2444.1	2906.3	3582.4	4797.4	7522.1	13272.2	17256.3	15482.2	14598.2
50°	1792.2	1804.3	1981.9	2391.7	3021.4	4183.9	6716.8	13383.2	19040.4	18114.0	16985.8
52.5°	1416.8	1435.0	1570.2	1891.1	2421.9	3459.3	5846.9	13108.7	21123.3	21234.3	19643.9
55°	1148.4	1154.5	1255.4	1491.5	1893.1	2700.5	4797.4	12343.8	23363.6	25232.5	23204.1
57.5°	989.0	993.0	1049.5	1180.7	1457.2	2036.4	3721.7	10896.7	25375.8	29916.9	27309.3
60°	898.1	900.2	932.4	1009.1	1154.5	1562.1	2666.1	8854.2	27361.8	35130.1	32411.5
62.5°	841.6	841.6	863.8	906.2	976.8	1198.9	1931.5	6387.8	28722.1	40420.0	38700.5
65°	787.1	787.1	803.3	833.5	871.9	980.9	1426.9	4165.7	28687.8	44272.9	45025.7
67.5°	724.6	724.6	736.7	766.9	789.1	843.6	1102.0	2728.7	25769.4	44188.2	48477.0
70°	649.9	649.9	666.0	692.3	710.4	744.7	869.9	1866.9	18931.4	37729.7	43112.4
72.5°	575.2	577.2	587.3	613.6	627.7	647.9	722.5	1307.8	11613.2	25690.6	30145.0
75°	492.5	496.5	506.6	532.8	544.9	553.0	609.5	932.4	5875.2	13851.4	15770.8
77.5°	397.6	405.7	411.7	440.0	448.1	460.2	502.6	674.1	2579.4	4977.1	5021.5
80°	290.6	300.7	318.9	345.1	351.2	359.3	383.5	478.3	1168.6	2272.6	2468.4
82.5°	213.9	228.1	205.9	240.2	240.2	230.1	270.4	320.9	536.9	2250.4	2692.4
85°	117.1	119.1	107.0	123.1	131.2	129.2	143.3	157.4	260.4	1501.6	1548.0
87.5°	28.3	30.3	32.3	38.3	46.4	46.4	50.5	44.4	84.8	486.4	278.5
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)