

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: P454556

Luminaire Tested: **GALN-SA5C-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454556
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-SA5C-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27928 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 269
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

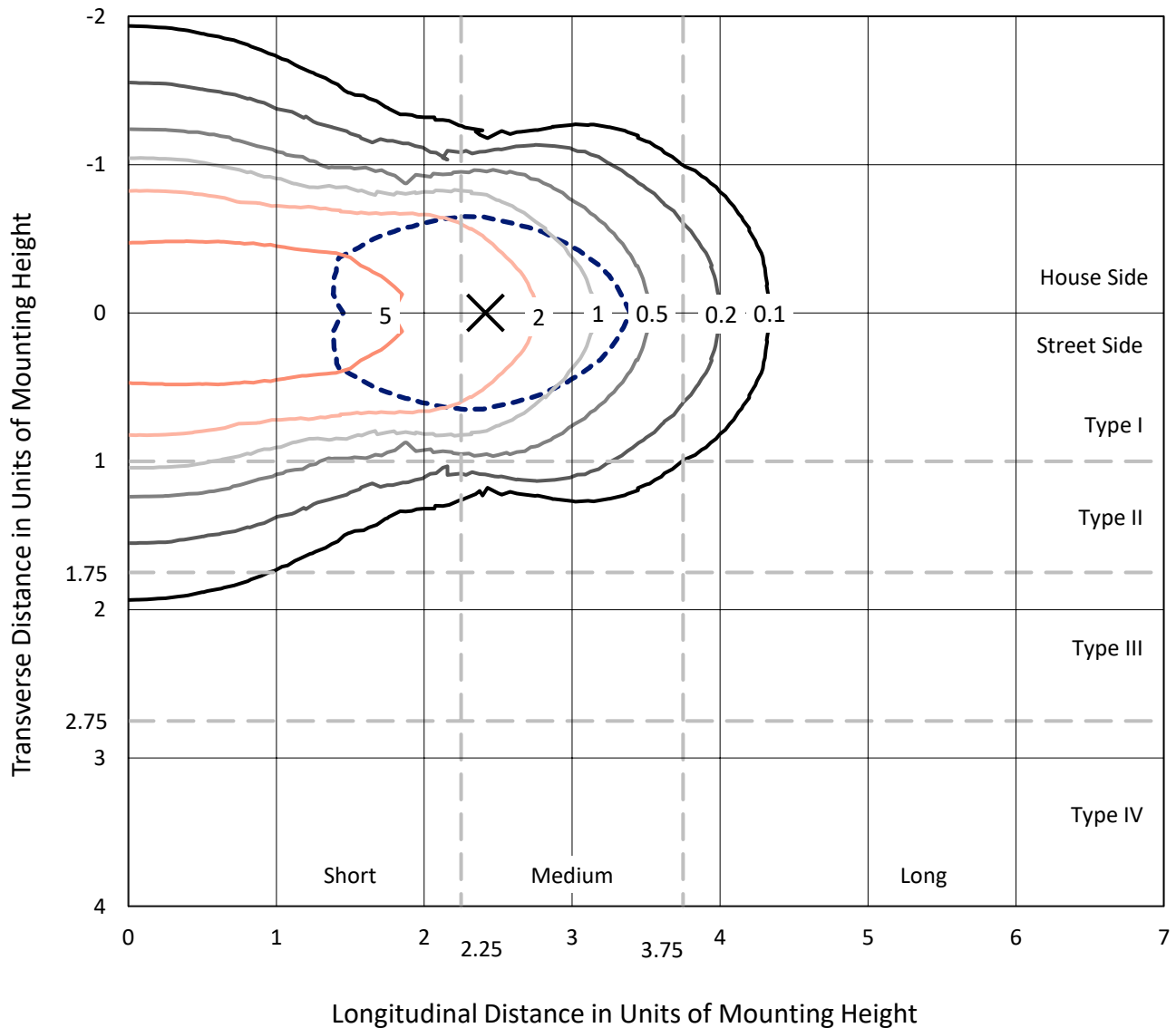


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

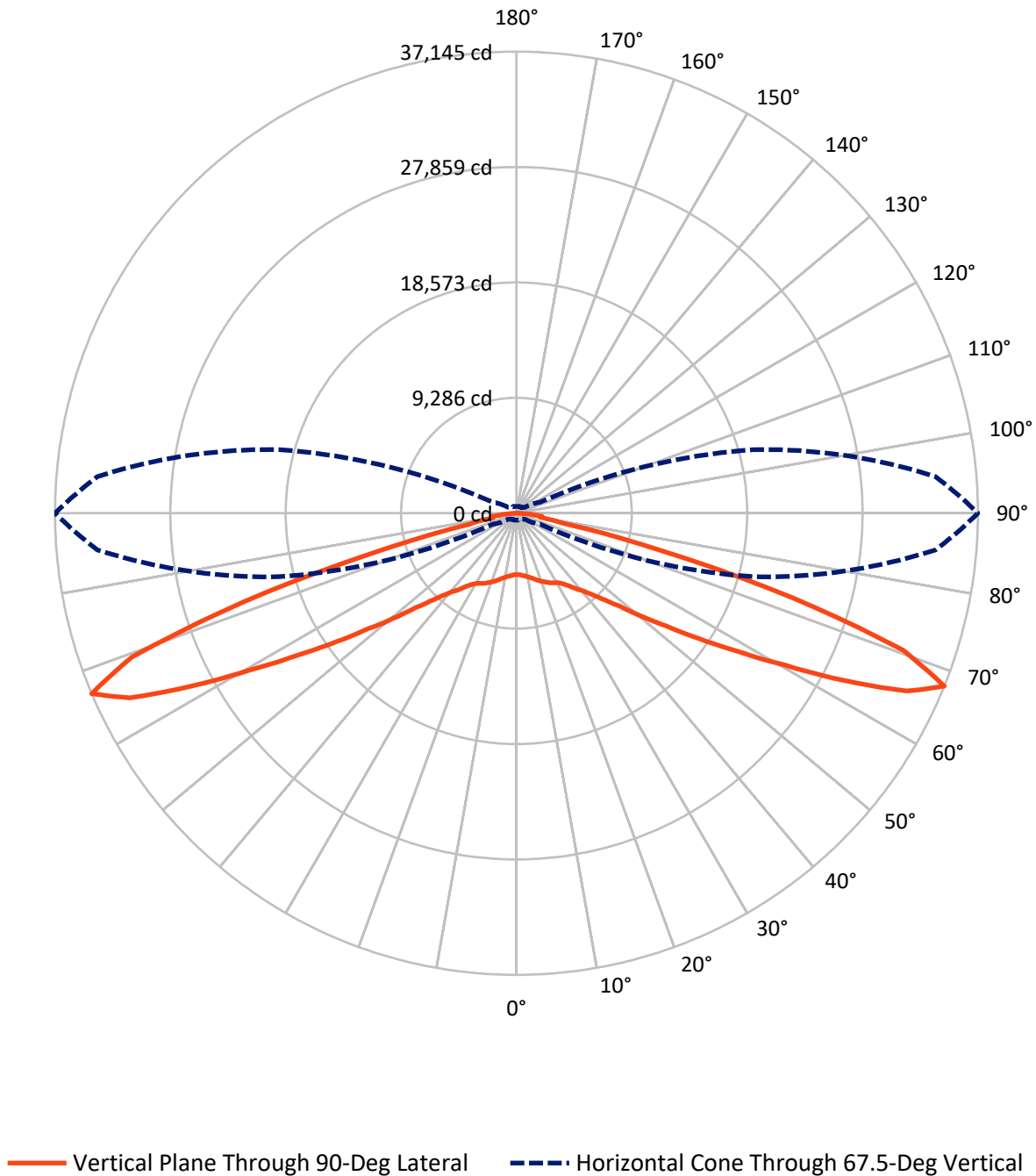


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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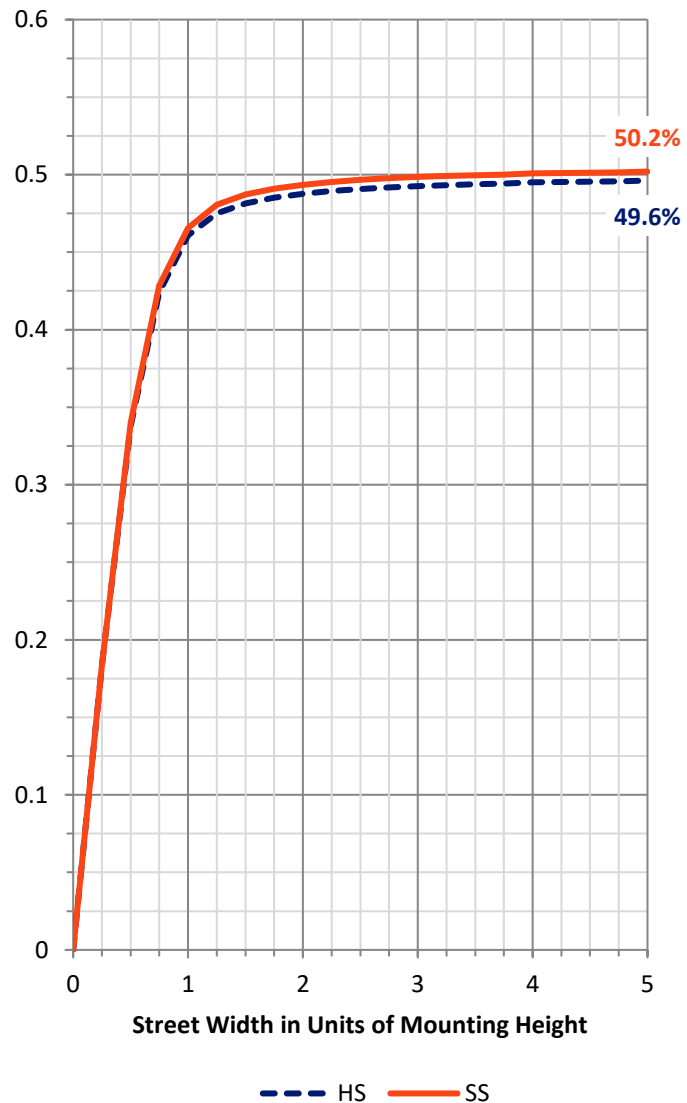
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13964.0	0.0	13964.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13964.0	0.0	13964.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27928.0	0.0	27928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.9	1.8
10°-20°	1577.1	5.6
20°-30°	2639.7	9.5
30°-40°	3576.1	12.8
40°-50°	4529.7	16.2
50°-60°	5658.7	20.3
60°-70°	6651.6	23.8
70°-80°	2544.5	9.1
80°-90°	257.8	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°	27928.0	100.0
0°-180°	27928.0	100.0

Coefficient of Utilization



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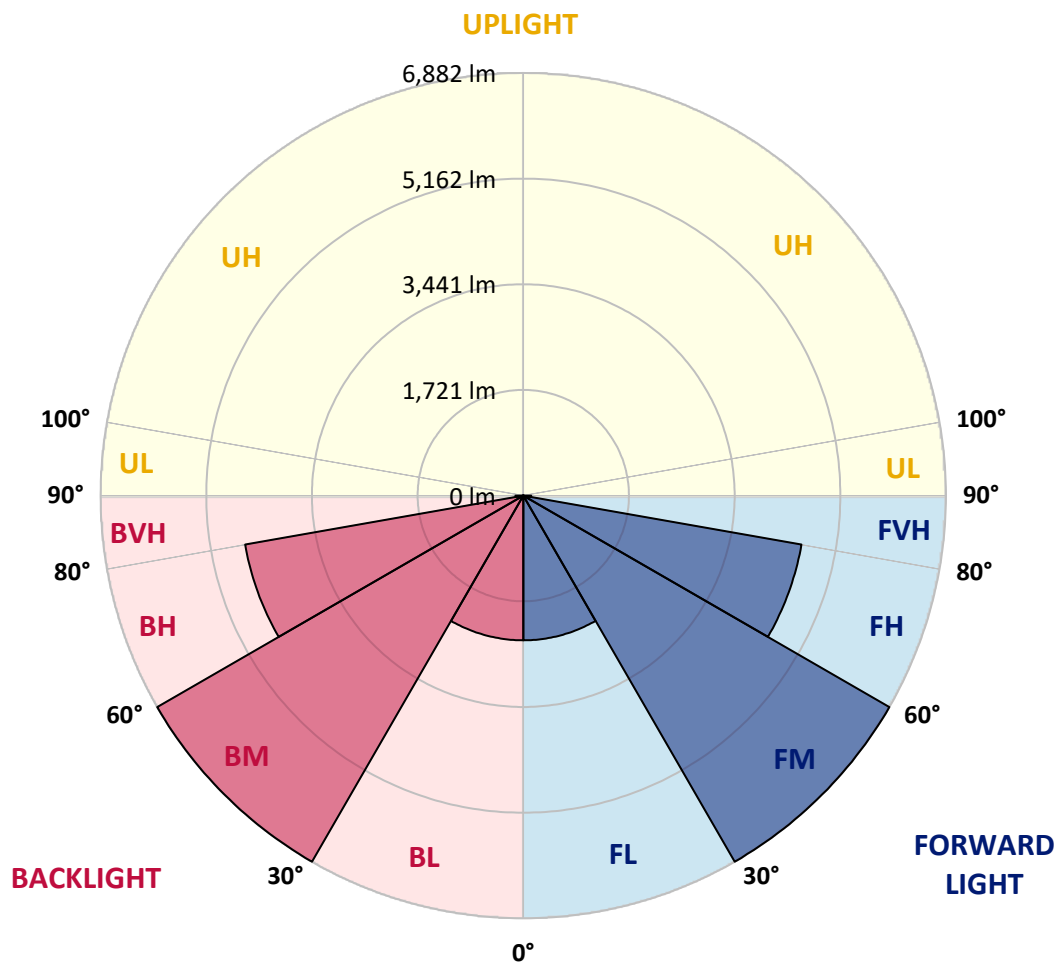
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2354.9	8.4			
FM	(30°-60°)	6882.2	24.6			
FH	(60°-80°)	4598.0	16.5			G2/5000
FVH	(80°-90°)	128.9	0.5			G2/225
BL	(0°-30°)	2354.9	8.4	B3/2500		
BM	(30°-60°)	6882.2	24.6	B4/8500		
BH	(60°-80°)	4598.0	16.5	B4/5000		G4/5000
BVH	(80°-90°)	128.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4944.1	4944.1	4944.1	4944.1	4944.1	4944.1	4944.1	4944.1	4944.1	4944.1	4944.1
2.5°	5007.5	5004.4	5006.0	5004.4	5009.1	5006.0	4987.4	4972.0	4959.6	4961.1	4956.5
5°	5114.2	5115.8	5117.3	5109.6	5120.4	5114.2	5084.9	5060.1	5035.4	5026.1	5023.0
7.5°	5202.4	5210.1	5214.8	5222.5	5241.1	5241.1	5225.6	5190.0	5135.9	5105.0	5103.4
10°	5290.5	5296.7	5310.6	5335.4	5366.3	5395.7	5389.5	5341.6	5272.0	5219.4	5207.0
12.5°	5321.5	5329.2	5375.6	5446.7	5516.3	5573.5	5573.5	5534.9	5445.2	5364.8	5341.6
15°	5213.2	5227.1	5310.6	5462.2	5644.7	5770.0	5797.8	5743.7	5647.8	5524.1	5496.2
17.5°	4998.3	5032.3	5154.4	5378.7	5681.8	5941.6	6022.0	5995.7	5872.0	5714.3	5681.8
20°	4767.8	4804.9	4934.8	5231.8	5650.9	6042.1	6275.7	6281.8	6128.7	5899.9	5851.9
22.5°	4514.2	4542.0	4709.1	5057.0	5558.1	6065.3	6493.7	6600.4	6393.2	6085.4	6017.4
25°	4229.6	4260.6	4435.3	4811.1	5383.3	6039.0	6693.2	6928.3	6670.0	6283.4	6196.8
27.5°	3957.5	3969.8	4157.0	4538.9	5152.9	5971.0	6840.1	7229.8	6976.2	6447.3	6337.5
30°	3696.1	3725.5	3891.0	4268.3	4888.5	5838.0	6966.9	7573.2	7305.6	6619.0	6478.2
32.5°	3419.3	3454.9	3634.2	4016.2	4624.0	5638.5	7044.3	7949.0	7764.9	6897.3	6747.3
35°	3153.3	3176.5	3357.4	3728.6	4365.7	5406.5	7058.2	8372.7	8357.2	7319.5	7120.0
37.5°	2881.1	2915.1	3097.6	3453.3	4092.0	5160.6	6988.6	8822.7	9071.7	7905.7	7690.7
40°	2619.8	2649.1	2828.5	3187.3	3781.2	4860.6	6823.1	9234.1	9905.3	8508.8	8204.1
42.5°	2335.2	2342.9	2539.3	2904.3	3476.5	4512.7	6585.0	9600.6	10834.7	9317.6	8938.7
45°	2012.0	2032.1	2214.6	2573.4	3127.0	4122.9	6261.7	9903.7	12013.1	10438.8	9922.3
47.5°	1688.8	1705.8	1872.8	2226.9	2745.0	3676.0	5763.8	10169.7	13222.5	11863.1	11185.8
50°	1373.3	1382.6	1518.7	1832.6	2315.1	3205.9	5146.7	10254.8	14589.6	13879.7	13015.3
52.5°	1085.6	1099.6	1203.2	1449.1	1855.8	2650.7	4480.2	10044.4	16185.6	16270.6	15052.0
55°	880.0	884.6	961.9	1142.9	1450.6	2069.2	3676.0	9458.3	17902.2	19334.2	17780.0
57.5°	757.8	760.9	804.2	904.7	1116.6	1560.4	2851.7	8349.5	19444.0	22923.6	20925.5
60°	688.2	689.7	714.5	773.2	884.6	1197.0	2042.9	6784.4	20965.8	26918.2	24835.1
62.5°	644.9	644.9	661.9	694.4	748.5	918.6	1480.0	4894.6	22008.1	30971.5	29653.9
65°	603.1	603.1	615.5	638.7	668.1	751.6	1093.4	3192.0	21981.8	33923.8	34500.6
67.5°	555.2	555.2	564.5	587.7	604.7	646.4	844.4	2090.9	19745.6	33858.8	37145.1
70°	498.0	498.0	510.3	530.4	544.4	570.7	666.5	1430.5	14506.1	28910.1	33034.6
72.5°	440.7	442.3	450.0	470.1	481.0	496.4	553.6	1002.1	8898.5	19685.3	23098.4
75°	377.3	380.4	388.2	408.3	417.6	423.7	467.0	714.5	4501.8	10613.6	12084.3
77.5°	304.7	310.8	315.5	337.1	343.3	352.6	385.1	516.5	1976.4	3813.6	3847.7
80°	222.7	230.4	244.3	264.4	269.1	275.3	293.8	366.5	895.4	1741.3	1891.4
82.5°	163.9	174.8	157.7	184.0	184.0	176.3	207.2	245.9	411.4	1724.3	2063.0
85°	89.7	91.2	82.0	94.3	100.5	99.0	109.8	120.6	199.5	1150.6	1186.2
87.5°	21.7	23.2	24.7	29.4	35.6	35.6	38.7	34.0	65.0	372.7	213.4
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)