

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: P533725

Luminaire Tested: **GALN-SA9A-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

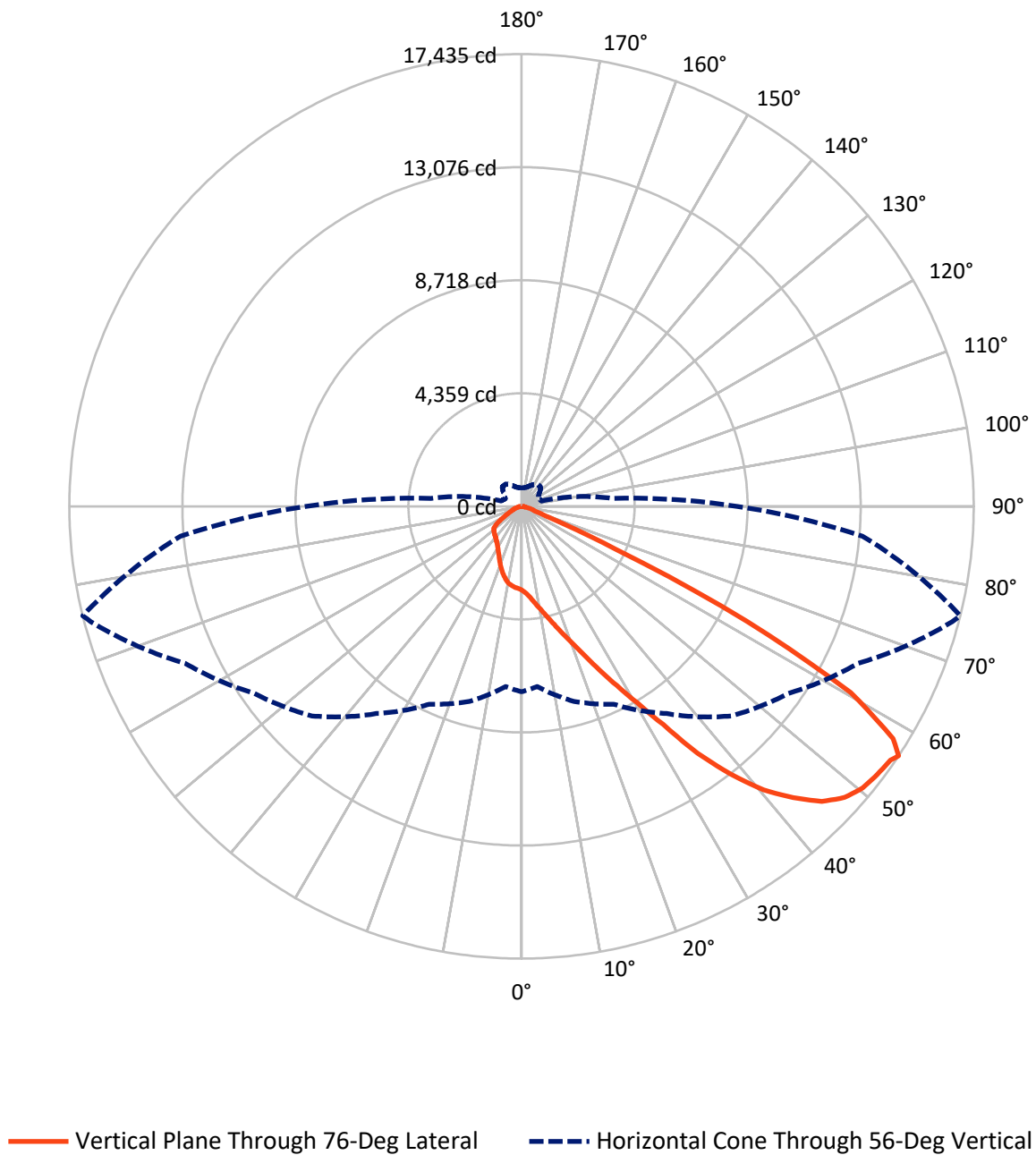
Lumens per Lamp: N/A
Luminaire Lumens: 19434 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 274
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



REPORT NUMBER: P533725
CATALOG NUMBER: GALN-SA9A-830-U-T2-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P533725

CATALOG NUMBER: GALN-SA9A-830-U-T2-GRSBK

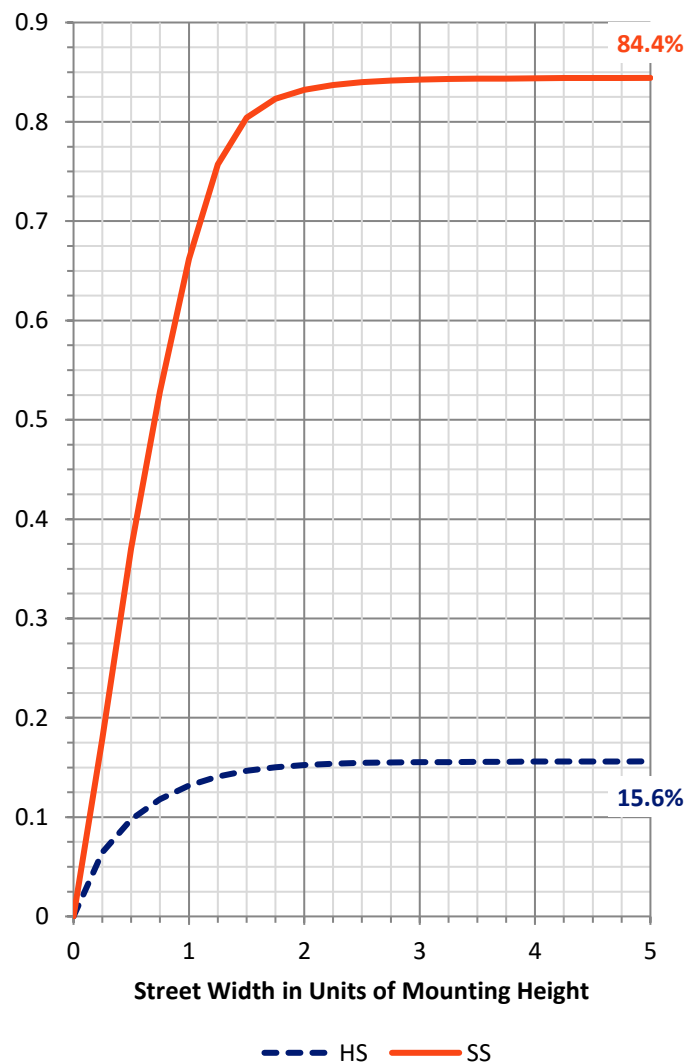
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3053.0	0.0	3053.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	16381.0	0.0	16381.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	19434.0	0.0	19434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.9	1.7
10°-20°	1046.9	5.4
20°-30°	1898.3	9.8
30°-40°	3273.7	16.8
40°-50°	5318.2	27.4
50°-60°	5605.5	28.8
60°-70°	1712.7	8.8
70°-80°	219.6	1.1
80°-90°	33.4	0.2
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°	19434.0	100.0
0°-180°	19434.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533725

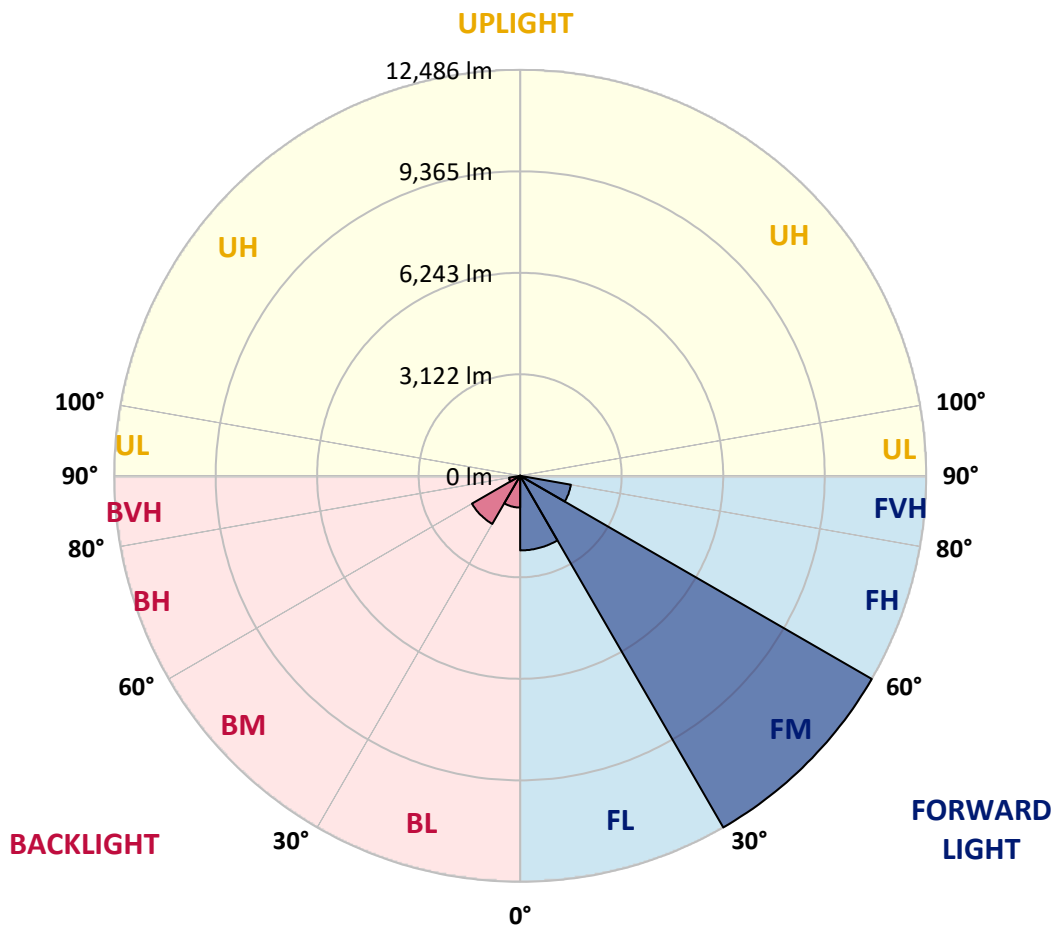
CATALOG NUMBER: GALN-SA9A-830-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2294.4	11.8			
FM	(30°-60°)	12486.3	64.2			
FH	(60°-80°)	1584.0	8.2			G1/1800
FVH	(80°-90°)	16.4	0.1			G1/100
BL	(0°-30°)	976.7	5.0	B2/1000		
BM	(30°-60°)	1711.0	8.8	B2/2500		
BH	(60°-80°)	348.3	1.8	B1/500		G1/500
BVH	(80°-90°)	17.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



REPORT NUMBER: P533725

CATALOG NUMBER: GALN-SA9A-830-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8
2.5°	3725.6	3639.6	3643.2	3636.0	3625.3	3585.9	3467.7	3449.8	3370.9	3349.5	3277.8
5°	4173.4	4098.2	4141.1	4076.7	4015.8	3979.9	3786.5	3696.9	3571.6	3525.0	3424.7
7.5°	4452.8	4417.0	4402.6	4406.2	4348.9	4259.4	4173.4	3976.4	3808.0	3772.2	3560.8
10°	4588.9	4567.4	4588.9	4578.2	4603.3	4614.0	4463.5	4345.3	4098.2	4037.3	3707.7
12.5°	4621.2	4664.2	4682.1	4728.6	4789.5	4893.4	4882.7	4721.5	4391.9	4352.5	3933.4
15°	4700.0	4735.8	4717.9	4793.1	4907.8	5083.3	5176.4	5151.3	4796.7	4725.1	4194.9
17.5°	4771.6	4707.1	4768.0	4918.5	5033.1	5301.8	5527.5	5631.4	5237.3	5154.9	4434.9
20°	4868.3	4850.4	4839.7	4914.9	5119.1	5477.3	5925.1	6115.0	5731.7	5645.7	4778.8
22.5°	5162.1	5165.7	5158.5	5047.5	5194.3	5599.1	6272.6	6741.9	6322.8	6251.1	5169.3
25°	5549.0	5502.4	5466.6	5377.0	5359.1	5710.2	6623.7	7508.5	7032.1	6981.9	5592.0
27.5°	5957.4	5957.4	5849.9	5767.5	5652.9	5986.0	6946.1	8253.6	7888.2	7820.2	5961.0
30°	6401.6	6426.6	6412.3	6236.8	6165.1	6286.9	7275.7	9206.5	8869.8	8783.8	6569.9
32.5°	7057.1	7003.4	7064.3	6917.4	6706.1	6813.5	7795.1	10059.1	10145.1	10023.3	7368.8
35°	7924.1	7891.8	7852.4	7612.4	7361.6	7447.6	8529.5	11108.7	11746.4	11685.5	8174.8
37.5°	8701.4	8683.5	8651.3	8486.5	8196.3	8300.2	9364.1	12201.3	13308.3	13107.6	9314.0
40°	9518.2	9614.9	9511.0	9364.1	9099.0	9328.3	10345.7	12849.7	14623.0	14379.4	10184.5
42.5°	10625.1	10549.9	10596.4	10327.8	10184.5	10435.2	11330.8	13498.1	15643.9	15353.7	11108.7
45°	11803.7	11807.3	11681.9	11595.9	11223.4	11495.6	11936.2	13856.3	16457.1	16231.4	11807.3
47.5°	12559.6	12556.0	12692.1	12828.2	12444.9	12176.2	12348.2	14196.7	16876.2	16772.3	12061.6
50°	12441.3	12477.2	12652.7	13161.4	13362.0	13000.2	12735.1	14096.4	17066.1	17055.3	12280.1
52.5°	10822.1	10940.3	11234.1	11968.5	12978.7	13426.5	13139.9	14282.6	17159.2	17177.1	12606.1
55°	8239.3	8303.8	8862.6	9754.6	10872.3	12405.5	12978.7	14429.5	17230.9	17263.1	13000.2
56°	7146.7	6974.7	7780.8	8414.8	9751.0	11427.5	12570.3	14314.9	17187.9	17435.1	13197.2
57.5°	5394.9	5280.3	5932.3	6724.0	8010.0	9779.7	11302.2	13774.0	16897.7	16894.1	12914.2
60°	3281.4	3166.8	3668.3	4134.0	4854.0	6021.8	7637.5	10969.0	14286.2	14587.1	10456.7
62.5°	1952.4	2024.0	2518.4	2801.4	3034.2	3156.0	3951.3	6519.8	9532.5	9747.4	6487.5
65°	1300.4	1325.5	1698.0	2163.7	2267.6	1805.5	1608.5	2640.2	4134.0	4001.4	2676.0
67.5°	802.4	859.8	1139.2	1626.4	1801.9	1318.3	763.0	985.1	1139.2	1139.2	773.8
70°	487.2	515.9	759.4	1106.9	1235.9	849.0	555.3	555.3	548.1	537.3	462.1
72.5°	232.8	250.8	386.9	569.6	580.3	447.8	429.9	469.3	458.5	455.0	383.3
75°	100.3	107.5	136.1	179.1	204.2	189.9	261.5	336.7	347.5	336.7	275.8
77.5°	32.2	35.8	50.2	64.5	68.1	82.4	111.1	139.7	161.2	150.5	136.1
80°	3.6	7.2	14.3	32.2	50.2	64.5	82.4	93.1	103.9	103.9	96.7
82.5°	3.6	3.6	14.3	28.7	46.6	60.9	78.8	89.6	103.9	107.5	100.3
85°	0.0	3.6	10.7	25.1	39.4	39.4	35.8	35.8	25.1	25.1	25.1
87.5°	0.0	0.0	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P533725

CATALOG NUMBER: GALN-SA9A-830-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8	3234.8
2.5°	3263.5	3256.3	3159.6	3098.7	3066.5	3002.0	2962.6	2933.9	2912.4	2887.3	2890.9
5°	3306.5	3281.4	3120.2	3009.1	2876.6	2804.9	2744.0	2693.9	2661.7	2654.5	2640.2
7.5°	3428.3	3295.7	3052.1	2851.5	2683.1	2611.5	2557.8	2525.5	2539.9	2507.6	2532.7
10°	3521.4	3324.4	2969.7	2679.6	2511.2	2457.5	2428.8	2453.9	2489.7	2475.4	2457.5
12.5°	3636.0	3353.0	2837.2	2514.8	2357.2	2317.7	2367.9	2414.5	2486.1	2514.8	2479.0
15°	3765.0	3385.3	2668.8	2324.9	2224.6	2256.9	2342.8	2425.2	2496.9	2532.7	2554.2
17.5°	3922.6	3374.5	2504.0	2174.5	2099.2	2192.4	2296.3	2371.5	2479.0	2532.7	2518.4
20°	4069.5	3338.7	2321.3	2024.0	2027.6	2113.6	2199.5	2321.3	2378.6	2450.3	2425.2
22.5°	4209.2	3274.2	2131.5	1920.1	1920.1	2052.7	2095.6	2174.5	2224.6	2260.4	2256.9
25°	4406.2	3152.4	1973.8	1819.8	1862.8	1948.8	1984.6	2009.7	1988.2	2016.8	2020.4
27.5°	4545.9	3027.0	1844.9	1730.3	1809.1	1873.5	1862.8	1848.5	1798.3	1758.9	1784.0
30°	4696.4	2880.2	1733.8	1669.4	1712.3	1769.7	1726.7	1683.7	1604.9	1540.4	1544.0
32.5°	4911.3	2812.1	1637.1	1597.7	1655.0	1662.2	1615.6	1551.1	1472.3	1411.4	1407.8
35°	5312.6	2769.1	1554.7	1551.1	1561.9	1565.5	1518.9	1440.1	1407.8	1357.7	1375.6
37.5°	5713.8	2747.6	1497.4	1483.1	1479.5	1483.1	1429.3	1354.1	1415.0	1411.4	1418.6
40°	6226.0	2844.3	1415.0	1397.1	1400.7	1400.7	1332.6	1311.1	1418.6	1429.3	1432.9
42.5°	6745.5	2966.1	1361.3	1304.0	1318.3	1318.3	1282.5	1257.4	1332.6	1261.0	1250.2
45°	7196.8	3145.3	1304.0	1210.8	1246.6	1264.6	1253.8	1210.8	1164.2	1042.4	1042.4
47.5°	7343.7	3302.9	1235.9	1121.3	1149.9	1228.7	1196.5	1106.9	1024.5	924.2	917.1
50°	7601.6	3474.8	1182.2	1017.4	1078.3	1175.0	1142.8	1053.2	960.1	888.4	892.0
52.5°	7866.7	3671.9	1081.9	895.6	970.8	1132.0	1132.0	1031.7	888.4	838.3	831.1
55°	8264.4	3664.7	902.7	734.4	866.9	1067.5	1085.4	924.2	795.3	755.9	755.9
56°	8321.7	3499.9	813.2	687.8	820.3	1049.6	1053.2	895.6	759.4	716.5	716.5
57.5°	7891.8	3159.6	712.9	630.5	763.0	1017.4	1021.0	870.5	730.8	669.9	662.7
60°	6072.0	2138.6	594.7	562.4	691.4	917.1	935.0	791.7	641.2	594.7	591.1
62.5°	3428.3	1185.7	523.0	508.7	594.7	780.9	834.7	691.4	544.5	519.4	526.6
65°	1565.5	652.0	440.6	412.0	480.0	601.8	673.5	569.6	447.8	419.1	419.1
67.5°	573.2	444.2	376.1	326.0	336.7	390.5	437.0	369.0	297.3	254.3	265.1
70°	408.4	372.6	329.6	283.0	261.5	254.3	250.8	207.8	146.9	114.6	121.8
72.5°	329.6	308.1	275.8	240.0	204.2	172.0	146.9	107.5	68.1	46.6	43.0
75°	236.4	225.7	200.6	172.0	143.3	121.8	100.3	68.1	35.8	17.9	17.9
77.5°	121.8	121.8	118.2	107.5	89.6	71.6	57.3	39.4	21.5	7.2	7.2
80°	93.1	100.3	103.9	93.1	82.4	64.5	46.6	28.7	14.3	3.6	3.6
82.5°	89.6	103.9	111.1	96.7	82.4	60.9	46.6	28.7	14.3	3.6	3.6
85°	21.5	21.5	32.2	35.8	46.6	50.2	39.4	25.1	10.7	3.6	3.6
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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)