

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: P452454

Luminaire Tested: **GALN-SA3B-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14127 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 121
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

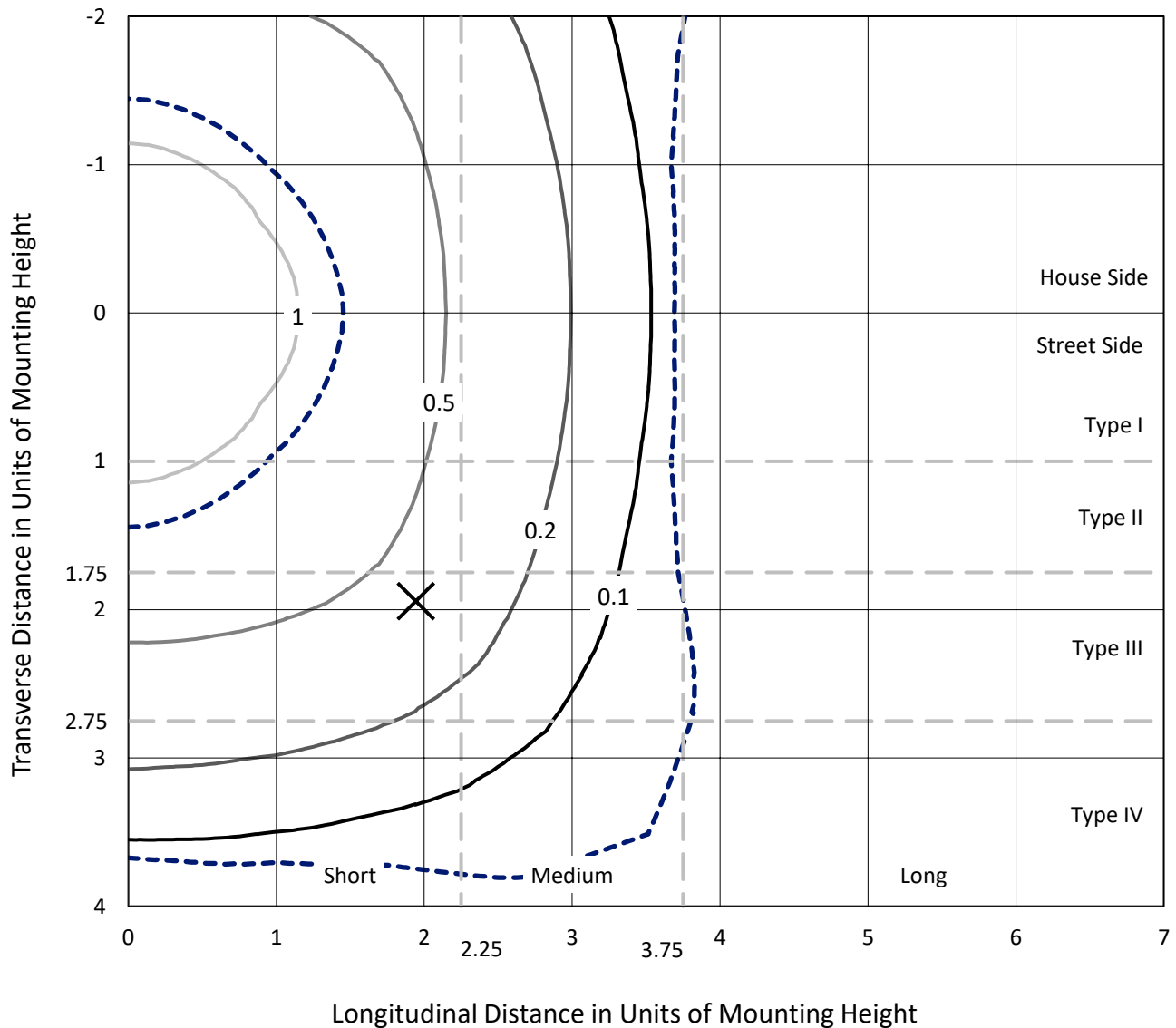


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

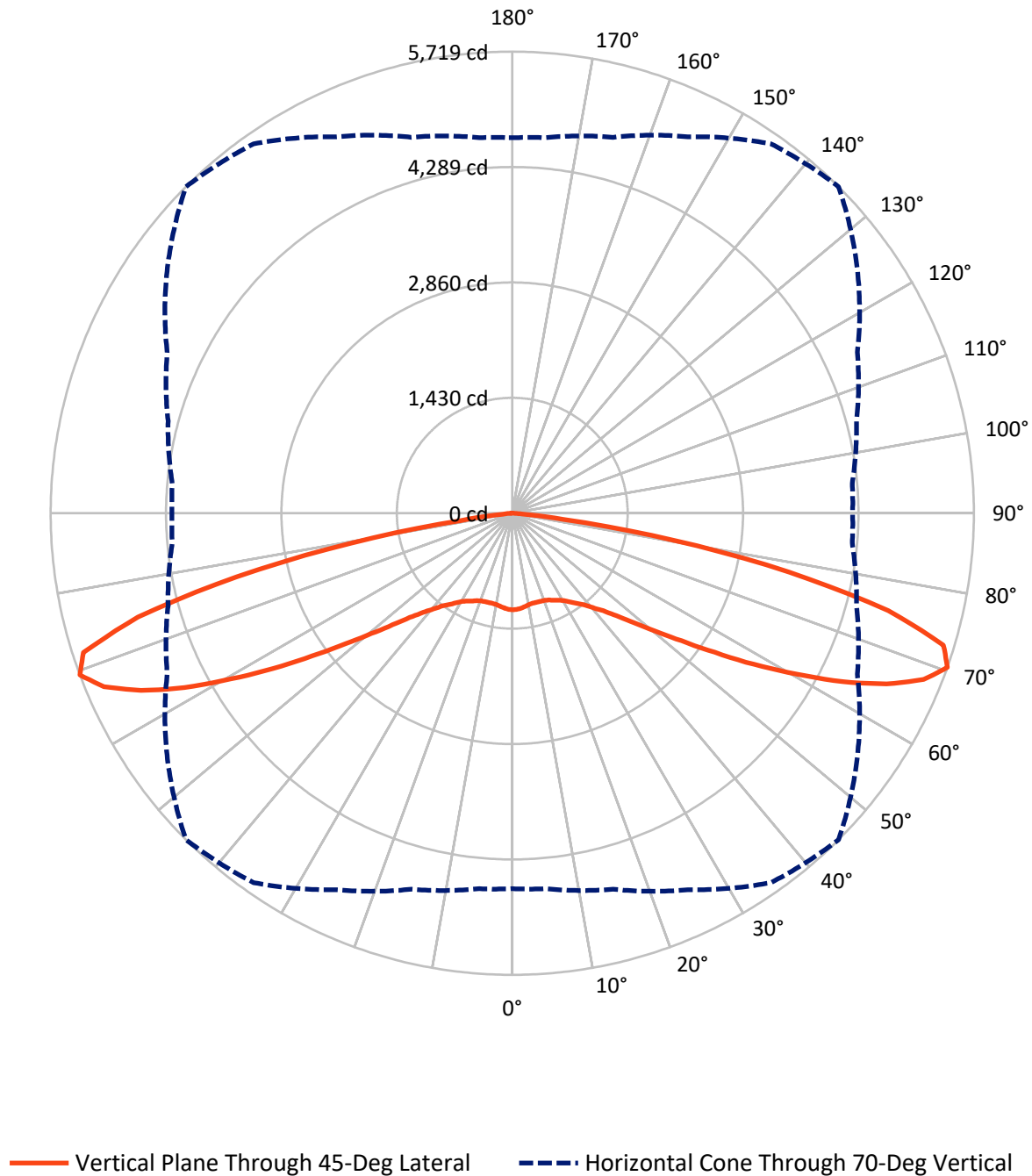


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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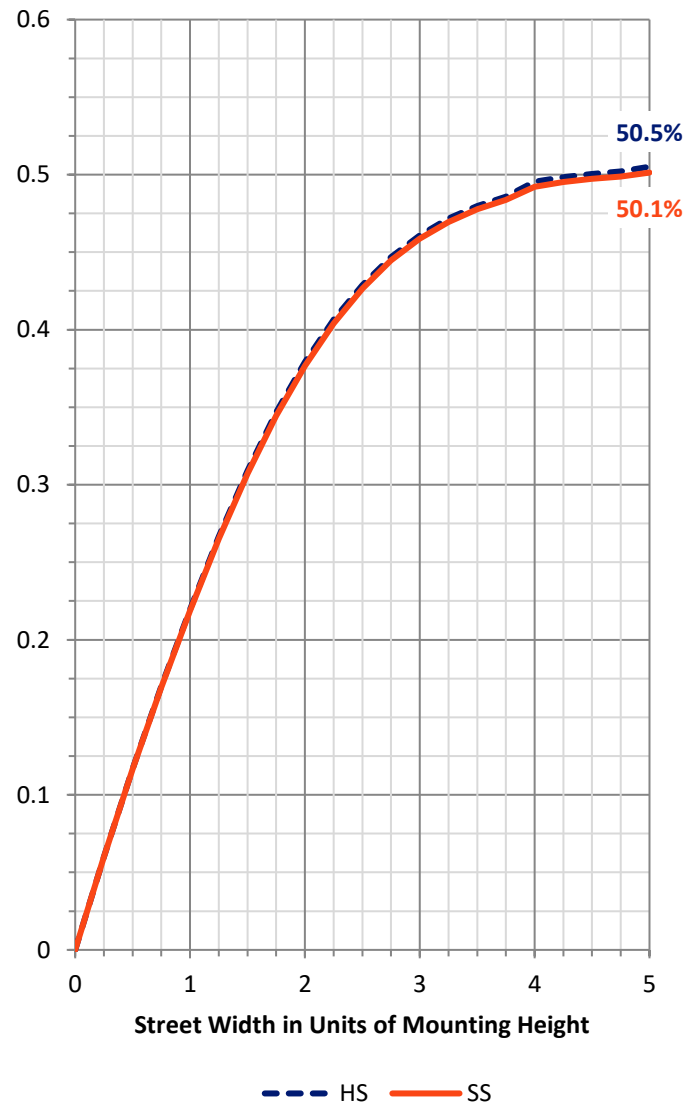
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7063.5	0.0	7063.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7063.5	0.0	7063.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14127.0	0.0	14127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	0.8
10°-20°	327.4	2.3
20°-30°	557.9	3.9
30°-40°	864.7	6.1
40°-50°	1455.5	10.3
50°-60°	2648.2	18.7
60°-70°	4483.3	31.7
70°-80°	3470.2	24.6
80°-90°	207.9	1.5
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°	14127.0	100.0
0°-180°	14127.0	100.0

Coefficient of Utilization



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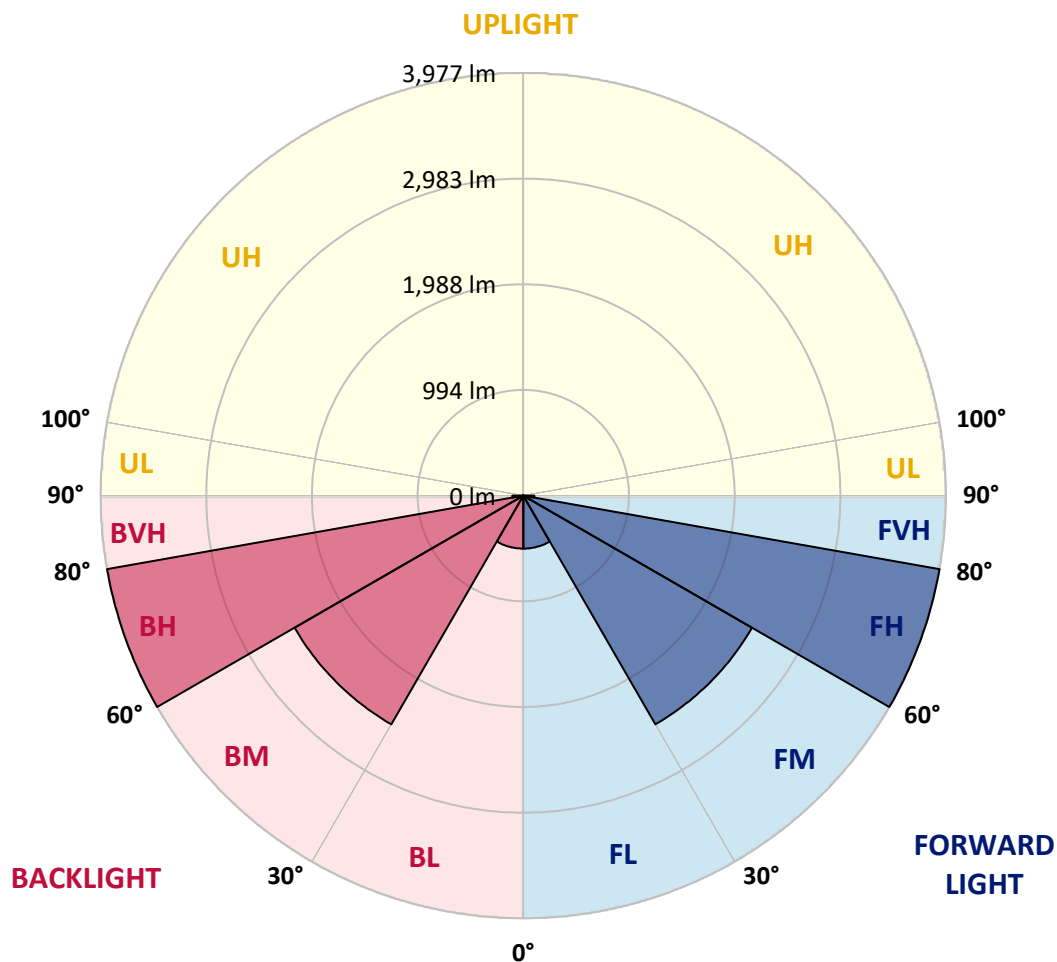
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.6	3.5			
FM	(30°-60°)	2484.2	17.6			
FH	(60°-80°)	3976.7	28.1			G2/5000
FVH	(80°-90°)	104.0	0.7			G2/225
BL	(0°-30°)	498.6	3.5	B1/500		
BM	(30°-60°)	2484.2	17.6	B2/2500		
BH	(60°-80°)	3976.7	28.1	B4/5000		G2/5000
BVH	(80°-90°)	104.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0
2.5°	1193.0	1193.8	1193.8	1192.3	1191.5	1191.5	1190.8	1190.8	1193.0	1193.8	1194.5
5°	1182.6	1182.6	1182.6	1181.8	1180.4	1180.4	1178.9	1178.9	1179.6	1181.8	1180.4
7.5°	1168.4	1169.9	1169.9	1166.9	1164.7	1164.7	1163.9	1164.7	1165.4	1167.7	1166.9
10°	1163.9	1164.7	1161.0	1155.7	1152.0	1149.8	1150.5	1152.0	1155.7	1157.2	1158.0
12.5°	1166.9	1166.9	1160.2	1152.7	1146.0	1143.0	1142.3	1147.5	1154.2	1158.7	1160.2
15°	1170.7	1169.2	1161.0	1151.3	1144.5	1143.8	1143.0	1146.8	1156.5	1165.4	1166.2
17.5°	1172.9	1172.1	1161.7	1149.8	1146.0	1146.0	1145.3	1148.3	1158.7	1169.9	1170.7
20°	1180.4	1178.1	1166.2	1153.5	1150.5	1152.0	1149.8	1153.5	1164.7	1178.1	1181.1
22.5°	1195.3	1193.0	1181.1	1168.4	1166.9	1166.9	1166.2	1169.9	1181.8	1196.0	1198.3
25°	1213.2	1210.9	1199.8	1190.8	1192.3	1195.3	1193.8	1194.5	1204.2	1216.2	1219.9
27.5°	1237.1	1233.3	1223.6	1216.2	1220.6	1220.6	1220.6	1219.9	1225.9	1237.1	1240.8
30°	1266.2	1264.7	1254.2	1253.5	1257.2	1253.5	1253.5	1254.2	1255.0	1265.4	1269.1
32.5°	1304.2	1301.2	1296.0	1294.5	1305.0	1307.9	1297.5	1287.8	1293.0	1303.5	1305.7
35°	1366.9	1362.4	1354.9	1346.7	1354.9	1369.1	1346.7	1339.3	1352.7	1366.9	1368.4
37.5°	1451.9	1449.7	1437.8	1422.8	1422.1	1437.0	1413.9	1413.1	1438.5	1455.7	1457.9
40°	1558.6	1560.9	1546.0	1531.8	1524.3	1536.3	1518.3	1525.1	1549.7	1569.1	1567.6
42.5°	1708.6	1700.4	1677.3	1663.8	1655.6	1651.2	1646.7	1657.1	1684.7	1705.6	1722.0
45°	1883.9	1881.0	1851.9	1835.4	1817.5	1810.8	1809.3	1828.0	1861.6	1886.9	1889.2
47.5°	2082.4	2075.7	2057.0	2039.9	2033.2	2025.0	2017.5	2031.7	2065.2	2083.2	2088.4
50°	2286.8	2288.3	2288.3	2285.4	2292.1	2293.6	2273.4	2278.6	2297.3	2295.8	2294.3
52.5°	2520.4	2528.6	2567.4	2571.1	2603.2	2624.8	2588.3	2566.6	2559.9	2519.6	2522.6
55°	2794.9	2802.4	2860.6	2918.8	3005.4	3041.9	2965.1	2897.9	2850.2	2789.0	2792.0
57.5°	3137.4	3141.1	3196.4	3308.3	3445.6	3531.4	3396.3	3263.5	3166.5	3108.3	3085.2
60°	3506.0	3509.7	3590.3	3726.8	3940.2	4044.7	3877.6	3660.4	3538.1	3449.3	3455.3
62.5°	3948.4	3963.4	4035.7	4223.8	4482.7	4599.8	4378.2	4088.0	3922.3	3811.9	3816.4
65°	4422.2	4447.6	4526.7	4733.4	4972.1	5098.2	4826.6	4491.6	4285.7	4150.6	4164.8
67.5°	4729.6	4752.0	4866.2	5094.5	5392.2	5496.6	5146.0	4755.7	4498.3	4337.2	4307.3
70°	4651.3	4669.9	4822.1	5146.0	5586.9	5719.0	5222.1	4716.9	4414.0	4228.2	4216.3
72.5°	4105.9	4067.1	4289.4	4754.2	5364.6	5586.2	4982.6	4308.1	3926.8	3735.8	3713.4
75°	2721.1	2805.4	3133.7	3681.3	4538.6	4813.2	4252.9	3459.0	2979.2	2820.3	2795.7
77.5°	909.5	974.4	1266.2	2086.9	3094.1	3506.7	3098.6	2262.2	1600.4	1289.3	1295.3
80°	241.0	238.0	308.1	573.8	1337.0	2030.9	1556.4	766.3	419.3	303.7	288.0
82.5°	86.5	97.0	124.6	158.9	354.4	631.2	445.4	214.9	157.4	116.4	112.7
85°	38.1	37.3	53.7	63.4	88.8	117.9	104.5	91.0	79.8	53.0	49.2
87.5°	8.2	8.2	12.7	9.7	15.7	15.7	19.4	23.1	23.9	15.7	12.7
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)