

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: P938785

Luminaire Tested: **GALN-SB1A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3866 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

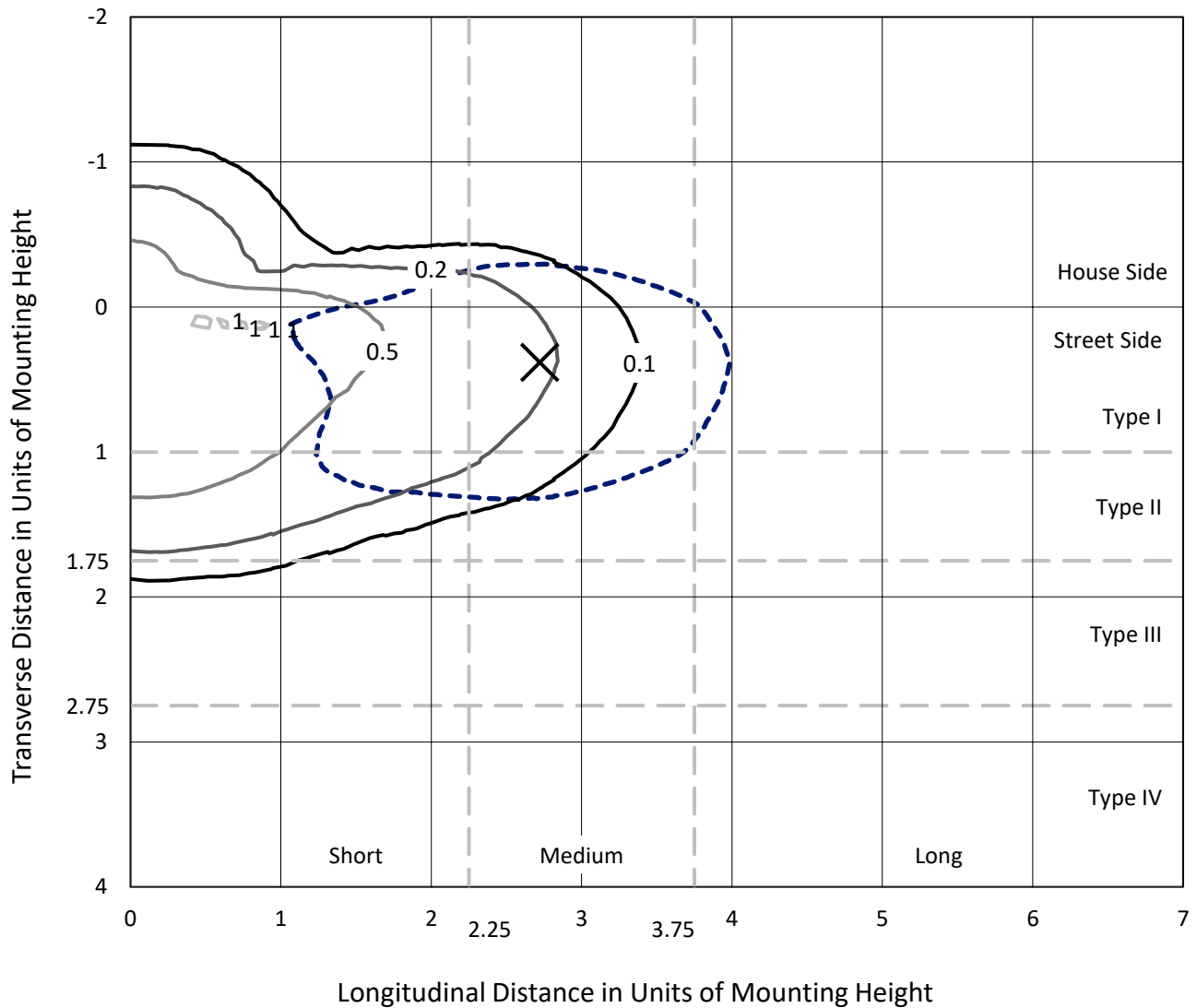
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938785
 CATALOG NUMBER: GALN-SB1A-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

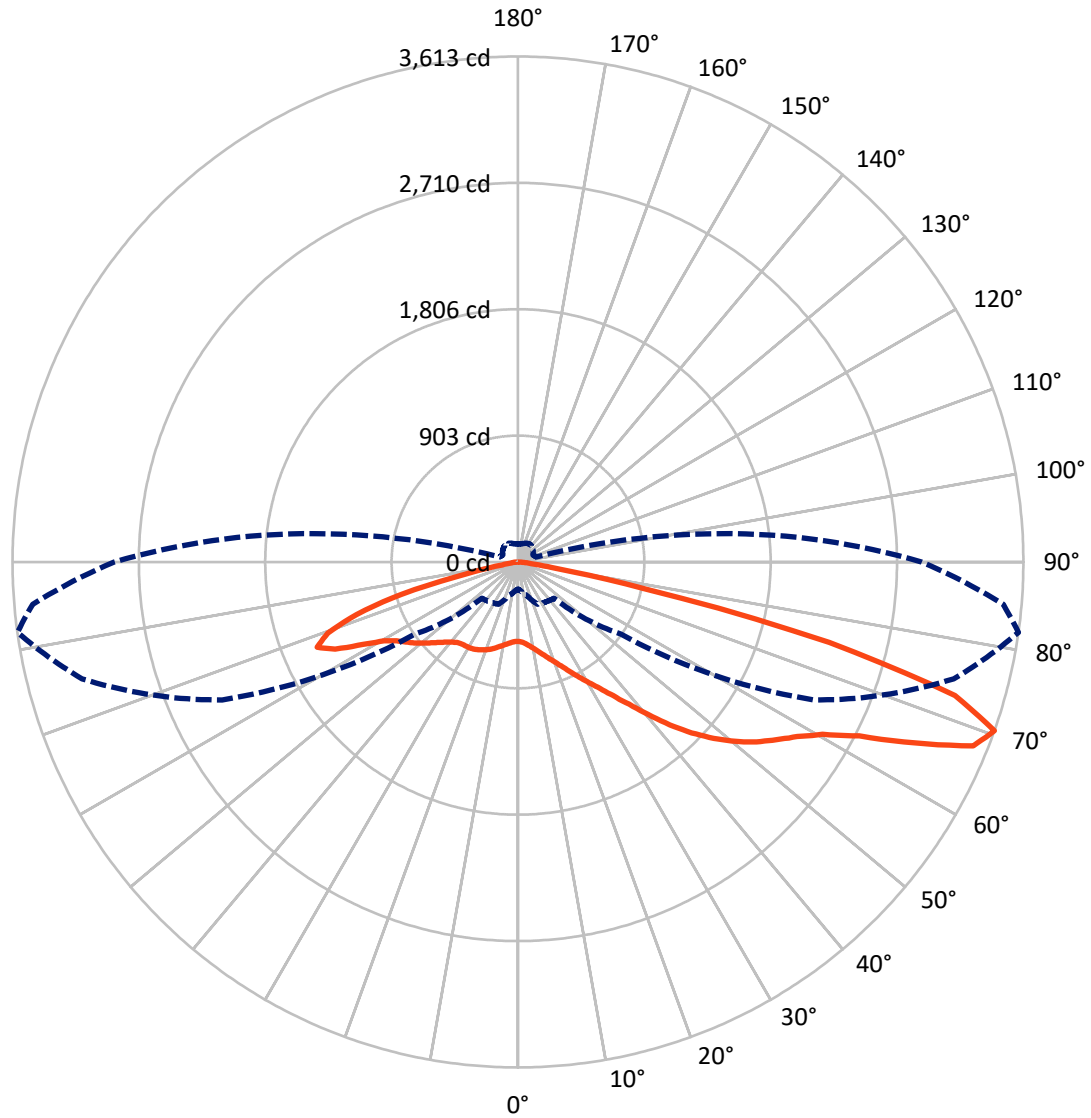
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Medium - N/A

REPORT NUMBER: P938785
CATALOG NUMBER: GALN-SB1A-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P938785
 CATALOG NUMBER: GALN-SB1A-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	953.1	0.0	953.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	2912.9	0.0	2912.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	3866.0	0.0	3866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.4
10°-20°	153.8	4.0
20°-30°	257.2	6.7
30°-40°	401.8	10.4
40°-50°	640.0	16.6
50°-60°	890.6	23.0
60°-70°	931.6	24.1
70°-80°	486.9	12.6
80°-90°	50.6	1.3
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°	3866.0	100.0
0°-180°	3866.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938785

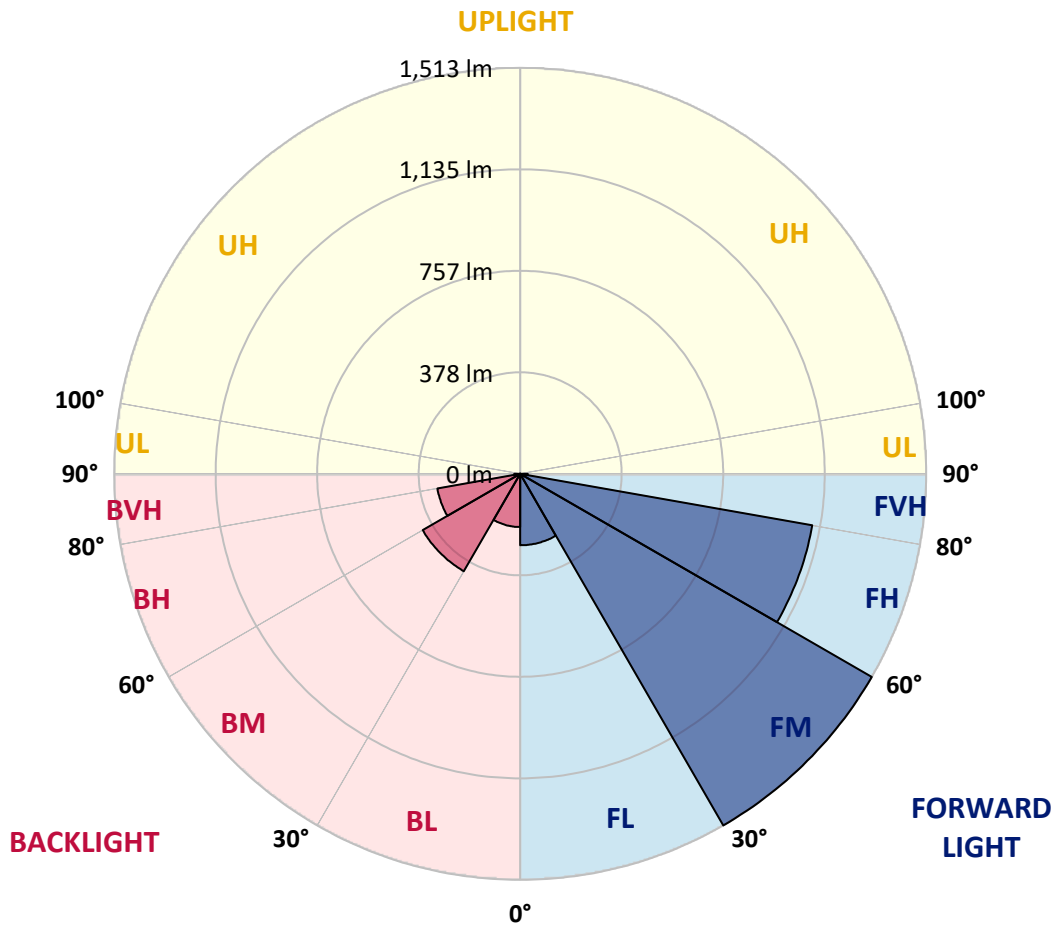
CATALOG NUMBER: GALN-SB1A-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.2	6.9			
FM (30°-60°)	1513.1	39.1			
FH (60°-80°)	1105.3	28.6			G1/1800
FVH (80°-90°)	28.3	0.7			G1/100
BL (0°-30°)	198.3	5.1	B1/500		
BM (30°-60°)	419.3	10.8	B1/1000		
BH (60°-80°)	313.2	8.1	B1/500		G1/500
BVH (80°-90°)	22.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



REPORT NUMBER: P938785

CATALOG NUMBER: GALN-SB1A-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8
2.5°	580.3	583.6	582.6	581.6	581.6	580.1	579.9	577.9	576.2	573.6
5°	587.7	591.2	590.8	591.6	594.3	594.9	595.5	594.3	591.0	587.7
7.5°	581.2	585.1	586.3	591.2	599.4	606.8	612.3	614.6	611.5	606.8
10°	559.0	563.3	567.6	579.3	593.9	611.3	626.1	634.9	634.3	629.8
12.5°	514.1	518.6	527.8	550.6	577.3	608.0	635.5	654.0	660.3	657.1
15°	478.2	482.1	489.1	512.4	547.1	593.9	639.0	674.9	691.1	689.3
17.5°	477.2	478.8	483.1	494.2	520.9	571.7	635.3	695.4	726.4	726.2
20°	495.2	495.8	498.3	500.5	515.7	554.9	625.9	712.5	766.0	766.0
22.5°	520.2	519.8	522.3	520.2	527.6	553.5	619.9	727.4	810.1	813.4
25°	557.8	555.7	555.1	550.4	551.8	566.8	626.5	744.5	862.4	869.2
27.5°	607.8	604.5	602.3	591.4	587.7	594.3	646.6	765.0	920.7	932.4
30°	673.1	667.1	663.8	645.0	631.6	632.7	677.0	792.3	981.6	1000.5
32.5°	762.1	752.9	744.0	713.1	688.7	680.7	716.1	830.0	1047.7	1077.8
35°	861.8	854.4	845.0	797.2	759.6	741.2	769.1	882.7	1125.0	1172.8
37.5°	957.8	951.4	956.0	891.5	843.1	816.3	838.4	953.5	1220.4	1291.0
40°	1057.1	1052.2	1052.8	991.2	934.8	904.7	922.5	1042.3	1329.7	1431.5
42.5°	1165.0	1161.3	1149.0	1094.4	1031.0	1002.9	1019.3	1144.9	1447.1	1591.5
45°	1285.8	1283.6	1272.1	1209.5	1136.9	1105.3	1127.5	1258.1	1565.0	1742.1
47.5°	1390.2	1392.1	1390.6	1337.9	1262.6	1216.3	1242.7	1376.3	1674.8	1883.6
50°	1440.5	1450.1	1464.3	1447.9	1401.1	1353.9	1359.1	1490.3	1779.4	2016.3
52.5°	1414.2	1432.5	1471.1	1497.3	1515.4	1505.5	1491.8	1603.6	1877.9	2136.1
55°	1316.4	1342.0	1406.0	1469.4	1561.5	1633.1	1651.2	1729.1	1973.9	2241.6
57.5°	1138.1	1179.8	1237.2	1365.4	1520.5	1694.9	1837.0	1903.3	2075.6	2354.2
60°	832.5	888.3	959.6	1150.4	1376.9	1661.8	1995.2	2170.8	2220.2	2500.1
62.5°	532.8	567.2	632.9	812.6	1072.9	1492.6	2043.6	2505.2	2465.4	2739.2
65°	364.7	386.9	447.0	547.9	693.6	1111.0	1914.0	2755.9	2854.7	3118.3
67.5°	265.0	281.9	333.1	421.6	451.9	657.5	1485.2	2744.4	3233.2	3508.9
70°	193.2	205.1	248.2	333.1	347.7	365.8	899.7	2332.9	3225.0	3612.7
72.5°	143.2	151.4	180.3	258.5	281.5	247.0	445.4	1695.5	2771.2	3267.7
75°	103.6	109.8	131.1	197.8	225.2	188.1	222.2	990.8	1933.0	2298.6
77.5°	79.2	83.9	97.9	144.8	180.3	141.1	137.9	455.8	916.6	921.1
80°	63.6	66.7	74.3	102.0	138.3	105.6	89.9	184.0	289.7	245.1
82.5°	46.8	51.9	62.8	71.6	98.9	72.8	54.8	92.9	110.2	94.8
85°	26.7	30.2	38.0	51.3	63.2	44.5	31.4	41.2	51.3	42.1
87.5°	9.4	12.3	13.3	20.1	27.5	18.5	12.1	11.9	16.8	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938785
 CATALOG NUMBER: GALN-SB1A-827-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
566.8	0°	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8
573.0	2.5°	570.9	569.9	565.8	560.2	554.5	549.0	547.1	543.2	540.5	539.1
586.3	5°	582.4	579.1	569.5	557.2	544.2	530.3	520.4	511.4	504.9	498.7
604.5	7.5°	598.8	593.1	576.4	554.9	531.9	508.7	491.5	478.4	469.6	463.8
625.9	10°	617.9	609.1	583.6	551.4	515.9	482.7	462.4	451.1	445.6	442.5
650.3	12.5°	639.8	627.3	591.0	543.4	491.5	453.6	439.6	436.3	436.5	436.7
681.1	15°	666.9	649.5	597.0	526.0	459.7	431.2	428.7	434.1	439.6	442.3
715.9	17.5°	697.5	672.9	598.0	497.3	428.5	416.8	424.6	436.1	444.5	448.2
754.9	20°	730.3	696.7	590.6	456.6	402.9	405.2	419.1	433.9	443.1	447.8
799.4	22.5°	767.8	722.1	573.0	414.0	382.0	392.4	408.8	423.2	432.8	437.6
851.7	25°	810.7	750.6	545.3	378.1	363.9	378.1	394.5	406.4	414.2	418.5
910.2	27.5°	858.3	780.4	508.3	349.6	348.1	363.3	376.8	386.1	390.2	393.5
972.4	30°	906.1	807.4	463.6	328.0	334.4	348.7	358.4	362.5	363.7	364.3
1041.7	32.5°	957.8	830.8	416.6	310.2	321.3	334.6	340.3	342.2	336.4	332.5
1125.8	35°	1020.4	855.8	370.7	296.0	308.3	319.8	321.7	320.0	313.2	305.2
1231.3	37.5°	1097.7	887.0	334.0	286.0	296.2	303.8	301.6	301.1	301.8	292.3
1358.0	40°	1192.5	927.6	307.1	278.2	286.4	288.0	281.7	285.1	288.2	273.9
1497.1	42.5°	1297.7	976.7	290.1	272.8	278.2	274.3	264.4	268.3	267.9	249.0
1636.8	45°	1405.0	1030.0	284.1	268.9	270.6	262.8	251.9	252.9	244.3	227.3
1770.8	47.5°	1511.7	1087.2	287.8	265.7	261.1	252.3	243.9	239.4	226.7	214.0
1899.2	50°	1616.3	1147.4	301.4	259.1	248.2	243.1	236.9	228.9	215.4	204.5
2020.6	52.5°	1713.3	1207.9	316.5	248.2	232.0	235.1	231.2	222.0	208.6	197.6
2135.5	55°	1805.2	1268.4	322.5	233.2	216.8	228.1	225.9	208.8	192.8	183.8
2255.7	57.5°	1905.3	1341.2	315.9	214.2	204.5	220.1	211.5	192.6	183.4	176.6
2412.3	60°	2044.0	1455.5	301.8	190.6	192.8	208.2	193.4	185.7	175.6	168.0
2646.9	62.5°	2274.4	1668.6	279.0	167.2	179.1	190.6	184.8	177.0	166.8	159.4
3048.2	65°	2614.9	1964.8	236.1	148.9	163.7	173.3	175.6	167.8	157.1	149.3
3399.8	67.5°	2902.1	2150.7	178.7	133.8	147.9	159.4	165.8	158.2	146.9	139.3
3482.1	70°	2886.3	2015.7	136.4	118.8	134.0	145.6	153.9	147.9	135.8	128.6
3162.9	72.5°	2563.6	1686.3	110.4	103.6	119.8	131.3	141.1	136.6	124.3	117.3
2317.1	75°	1883.4	1197.0	88.2	88.2	102.2	116.3	127.2	124.3	113.0	108.1
972.8	77.5°	793.9	502.2	69.1	73.2	84.9	99.9	113.4	114.5	104.6	110.8
257.2	80°	211.1	138.5	52.7	57.6	66.7	82.5	98.7	98.3	87.6	81.9
95.6	82.5°	80.4	54.6	37.5	40.6	48.2	63.2	78.2	80.6	70.0	60.5
37.5	85°	31.0	23.4	23.2	24.4	28.1	41.8	59.1	61.1	52.7	44.7
10.5	87.5°	8.0	7.0	8.6	8.2	12.9	22.4	33.8	35.1	32.2	18.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
566.8
540.8
501.2
465.1
443.3
437.2
442.1
449.1
449.1
438.8
419.7
394.7
365.8
333.8
305.7
292.9
274.3
248.8
227.9
214.0
203.7
197.8
183.0
176.0
167.6
159.4
149.8
139.5
129.2
117.3
106.7
100.5
76.1
60.5
46.2
26.7
0.0

F REPORT)