

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: P938861

Luminaire Tested: **GALN-SB1A-940-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2270 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

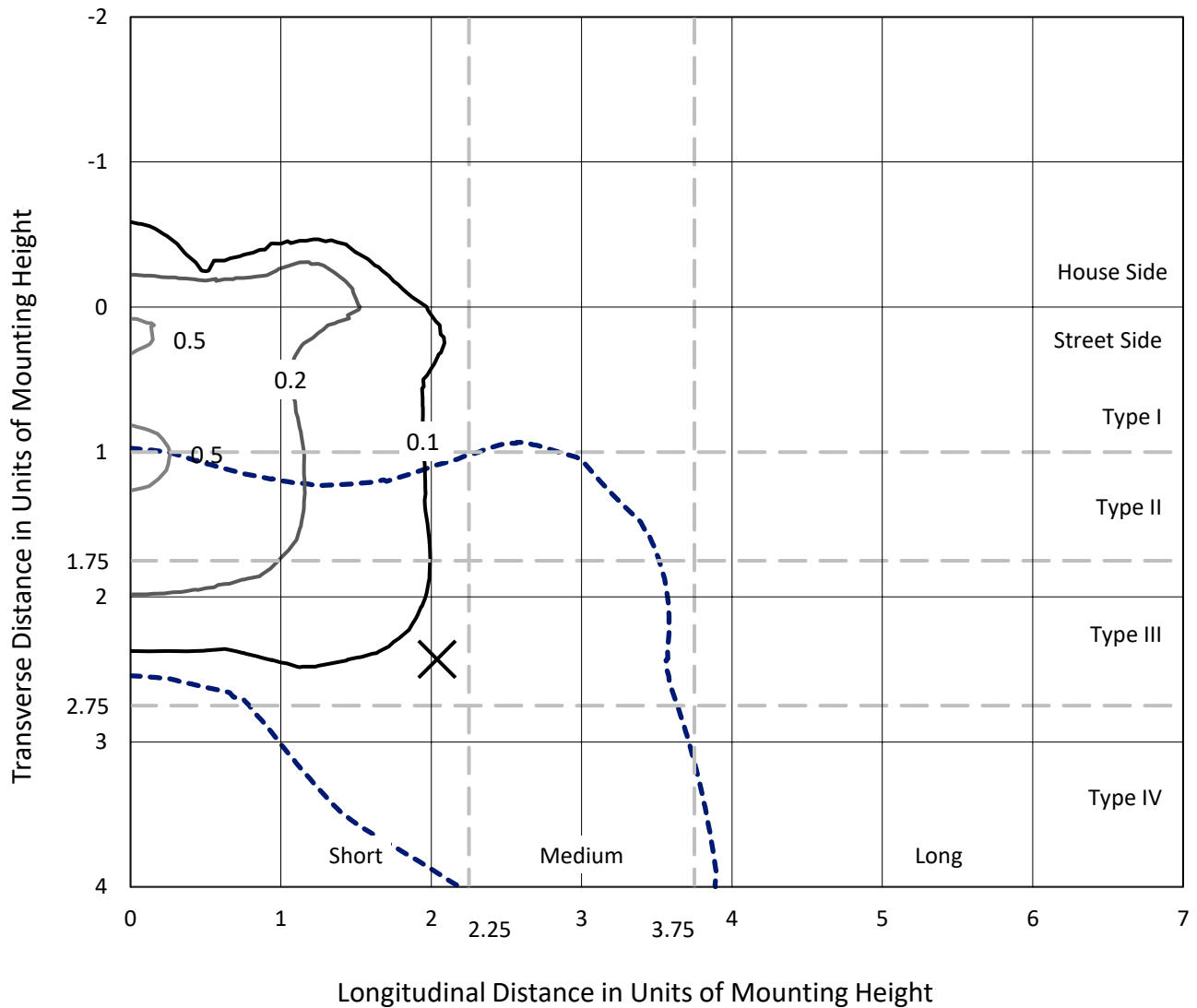
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938861
 CATALOG NUMBER: GALN-SB1A-940-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

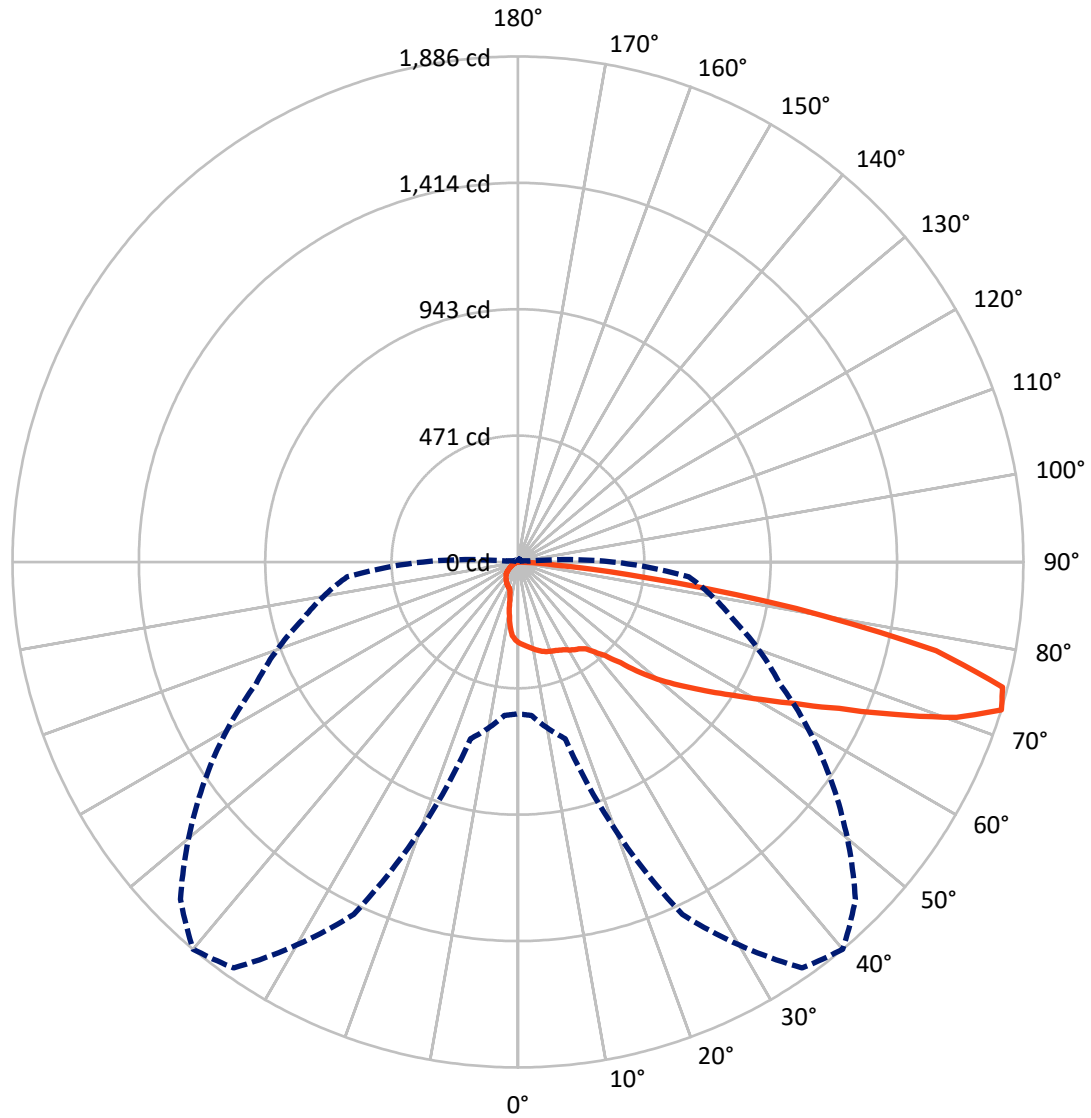
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P938861
CATALOG NUMBER: GALN-SB1A-940-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P938861

CATALOG NUMBER: GALN-SB1A-940-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	293.1	0.0	293.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	1976.9	0.0	1976.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	2270.0	0.0	2270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	1.2
10°-20°	74.5	3.3
20°-30°	120.6	5.3
30°-40°	178.1	7.8
40°-50°	299.7	13.2
50°-60°	465.4	20.5
60°-70°	582.3	25.7
70°-80°	476.7	21.0
80°-90°	45.2	2.0
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°	2270.0	100.0
0°-180°	2270.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938861

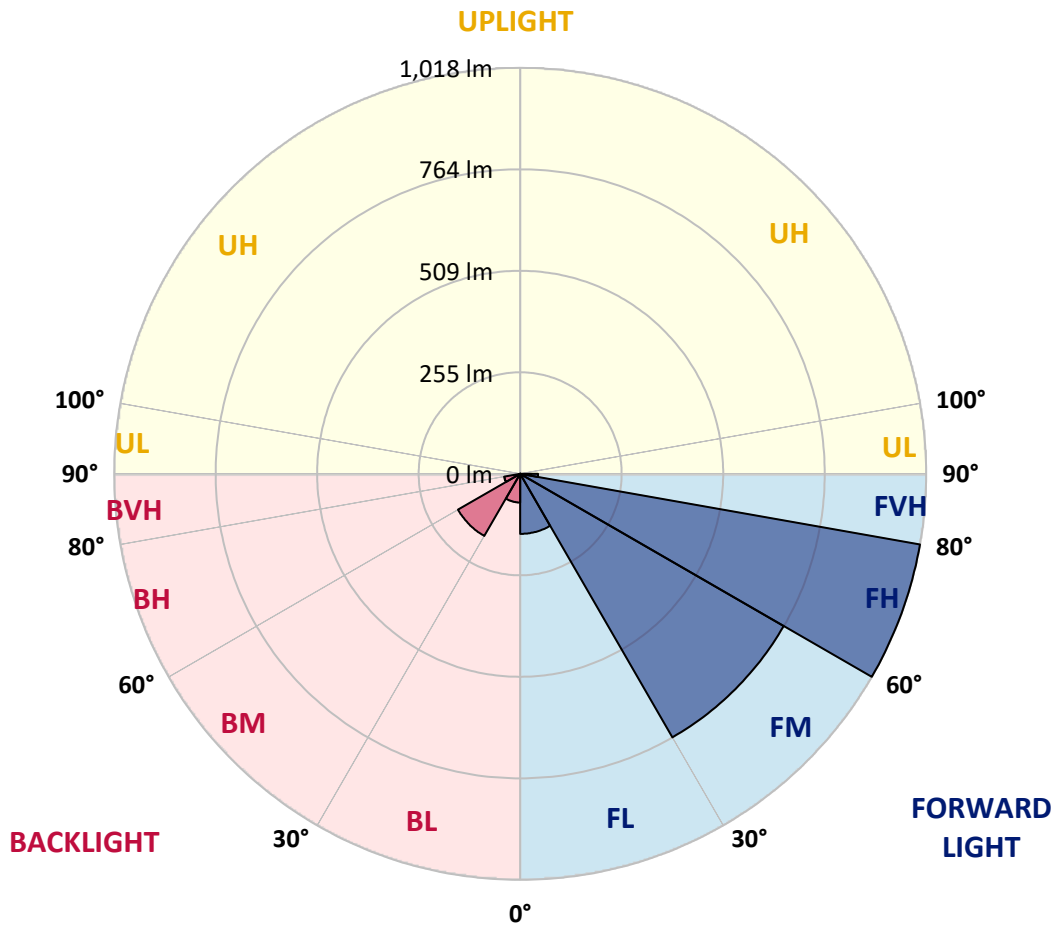
CATALOG NUMBER: GALN-SB1A-940-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	150.7	6.6			
FM (30°-60°)	763.1	33.6			
FH (60°-80°)	1018.2	44.9			G1/1800
FVH (80°-90°)	44.9	2.0			G1/100
BL (0°-30°)	72.0	3.2	B0/110		
BM (30°-60°)	180.0	7.9	B0/220		
BH (60°-80°)	40.8	1.8	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



REPORT NUMBER: P938861
 CATALOG NUMBER: GALN-SB1A-940-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6
2.5°	309.6	310.8	310.1	308.8	308.4	307.7	306.9	306.6	305.4	304.3
5°	318.3	319.5	318.7	316.8	316.0	315.1	313.9	312.9	310.5	308.3
7.5°	327.9	328.9	327.9	325.2	323.8	322.8	321.1	319.5	316.8	313.6
10°	338.5	339.4	337.8	334.2	332.0	330.5	328.9	327.2	324.7	321.1
12.5°	348.4	349.5	347.1	342.8	340.2	338.7	337.0	335.6	333.1	329.6
15°	357.5	359.0	354.9	350.3	347.4	346.2	344.5	343.7	341.9	339.5
17.5°	364.3	365.4	361.1	355.6	352.4	351.5	350.3	350.8	350.5	349.3
20°	370.2	370.8	365.2	358.5	354.9	355.1	354.8	356.5	357.2	357.2
22.5°	377.3	377.5	370.3	361.9	357.7	358.9	359.4	361.3	362.6	364.0
25°	386.7	386.4	377.8	366.4	362.6	364.3	365.5	366.2	367.8	370.0
27.5°	400.8	399.7	388.8	373.6	369.1	370.7	372.9	372.5	371.9	373.6
30°	418.5	417.2	402.6	383.7	379.6	380.9	381.6	378.5	373.6	375.1
32.5°	446.7	444.4	424.2	394.9	388.6	390.2	389.3	383.0	375.6	377.2
35°	495.8	490.0	461.4	418.5	398.9	397.2	395.1	389.0	379.9	378.4
37.5°	600.1	589.8	541.1	464.5	422.1	411.0	404.7	398.5	384.5	378.4
40°	717.7	707.3	651.1	541.5	460.8	442.0	426.9	409.8	389.3	380.6
42.5°	840.5	829.0	771.2	636.9	516.0	477.4	449.3	418.9	397.2	387.4
45°	977.6	963.2	887.7	736.4	596.2	536.2	485.4	437.5	410.8	399.6
47.5°	1122.3	1103.6	1003.8	833.0	682.5	617.5	551.4	470.9	431.0	417.7
50°	1250.5	1232.0	1123.6	934.0	763.2	695.0	626.6	517.0	461.3	443.3
52.5°	1342.6	1328.6	1232.7	1038.3	847.2	767.7	694.8	570.7	499.6	476.2
55°	1404.4	1391.5	1310.0	1137.1	944.8	847.7	762.0	629.0	545.7	515.5
57.5°	1441.8	1434.4	1365.9	1225.3	1041.6	935.2	839.0	693.1	600.1	561.8
60°	1455.1	1449.1	1400.6	1309.5	1158.5	1040.4	929.4	765.4	666.1	614.5
62.5°	1419.6	1420.8	1425.6	1409.1	1281.8	1163.5	1037.8	852.3	739.3	674.1
65°	1252.2	1262.1	1353.1	1519.6	1445.0	1317.7	1175.8	958.3	823.1	742.0
67.5°	1036.8	1051.1	1164.3	1584.2	1619.1	1517.9	1367.9	1093.4	922.9	811.1
70°	793.6	809.0	946.2	1570.7	1782.0	1736.7	1605.6	1265.2	1026.3	859.0
72.5°	566.4	574.3	682.3	1450.5	1848.9	1885.8	1780.7	1427.9	1079.2	832.5
75°	398.0	396.7	468.3	1168.1	1744.8	1867.7	1719.3	1339.9	976.6	661.3
77.5°	173.4	173.7	233.9	709.4	1392.6	1595.2	1429.1	839.3	680.8	350.5
80°	45.0	46.3	85.8	282.4	838.4	1052.8	871.6	369.0	314.6	85.5
82.5°	15.9	16.9	39.5	88.7	309.3	482.8	388.1	118.0	82.1	24.4
85°	4.6	5.5	21.2	27.2	63.9	136.4	94.2	22.9	20.2	12.7
87.5°	0.0	0.7	4.3	3.8	3.8	2.6	4.8	2.6	3.2	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938861
 CATALOG NUMBER: GALN-SB1A-940-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
300.6	0°	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6
303.1	2.5°	302.1	300.9	298.3	295.6	293.0	290.7	290.0	287.4	286.2	286.4
305.5	5°	303.6	301.4	296.5	290.5	284.3	277.3	271.5	263.3	256.3	255.4
310.1	7.5°	307.7	304.2	296.1	284.5	269.1	249.8	231.8	214.1	204.0	198.5
317.0	10°	314.1	309.3	297.0	274.7	242.1	207.6	180.4	158.0	146.5	141.2
325.4	12.5°	321.6	316.3	298.3	258.2	207.2	161.9	132.5	118.8	116.4	116.1
335.6	15°	332.2	326.4	299.9	235.8	169.4	123.3	109.8	109.9	111.8	112.8
346.7	17.5°	344.0	338.2	297.7	208.4	132.2	105.3	105.0	106.5	109.3	110.3
357.0	20°	356.0	350.5	289.8	176.3	106.9	100.4	101.7	103.4	106.2	107.5
367.1	22.5°	368.3	363.5	277.3	142.1	96.4	96.8	98.5	100.2	103.3	104.8
377.0	25°	381.4	377.3	260.7	113.9	92.0	93.0	95.2	97.3	100.5	102.4
385.4	27.5°	394.8	391.7	241.9	95.1	87.9	89.1	91.6	94.4	97.6	99.8
392.7	30°	409.3	407.6	226.9	88.0	83.9	85.0	87.9	91.0	94.5	97.3
400.1	32.5°	424.2	423.8	219.5	93.2	80.4	81.0	83.6	86.7	91.1	94.5
406.2	35°	438.9	439.6	215.3	107.7	79.2	77.3	79.0	81.7	87.0	91.3
413.2	37.5°	457.7	459.4	215.1	123.4	82.1	73.5	74.7	76.6	81.2	86.2
424.2	40°	485.7	494.8	226.0	136.9	87.2	70.1	70.4	70.8	73.2	77.3
438.7	42.5°	523.0	549.5	265.5	146.2	89.2	67.0	65.8	63.9	63.6	65.8
458.5	45°	569.3	615.7	334.9	151.3	87.2	63.6	60.4	55.4	53.5	55.1
485.4	47.5°	623.9	688.2	417.2	152.5	83.8	59.3	53.5	47.0	45.5	46.0
521.5	50°	677.0	742.5	489.5	142.6	78.1	53.9	46.0	40.5	39.5	39.7
564.0	52.5°	724.1	761.2	510.0	119.2	70.6	47.2	39.5	35.7	35.0	35.0
611.0	55°	755.2	741.0	454.8	91.1	61.2	40.3	33.9	32.0	31.6	31.5
663.5	57.5°	761.7	675.3	343.5	65.8	47.9	34.0	30.1	29.1	28.4	27.7
717.4	60°	738.4	565.9	218.7	46.0	35.9	29.1	26.7	26.0	24.6	23.3
768.0	62.5°	688.2	427.4	121.0	32.0	28.9	24.8	23.6	22.7	20.2	18.0
808.2	65°	620.6	284.2	53.5	25.0	23.6	20.9	20.2	19.0	15.9	13.3
823.4	67.5°	552.7	163.6	24.1	20.0	19.0	17.1	16.6	15.7	13.5	11.1
784.6	70°	475.3	82.9	16.6	15.9	14.7	13.0	13.5	13.3	11.1	9.1
639.9	72.5°	353.9	41.2	12.5	12.0	10.6	9.2	11.1	10.9	8.7	6.8
394.6	75°	200.4	20.3	9.1	8.4	6.3	6.8	8.9	8.4	6.0	4.4
166.5	77.5°	79.5	10.4	6.0	5.1	3.8	4.6	6.5	5.6	3.1	1.9
31.8	80°	18.3	5.1	3.1	2.2	1.7	2.7	3.4	2.1	0.9	0.2
8.5	82.5°	5.1	2.2	1.0	0.9	0.9	1.0	0.9	0.3	0.0	0.0
2.2	85°	1.7	1.0	0.3	0.2	0.2	0.2	0.2	0.0	0.0	0.0
0.7	87.5°	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
300.6
286.2
254.9
198.2
140.2
115.9
112.7
110.1
107.5
104.8
102.4
100.0
97.6
94.9
92.0
87.0
78.6
67.0
55.1
45.8
39.7
34.9
31.1
27.4
22.7
17.3
12.8
10.8
8.7
6.5
4.1
1.7
0.0
0.0
0.0
0.0
0.0

F REPORT)