

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: P938824

Luminaire Tested: **GALN-SB1A-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3134 lumens
Efficiency: N/A
Efficacy: 101.4 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

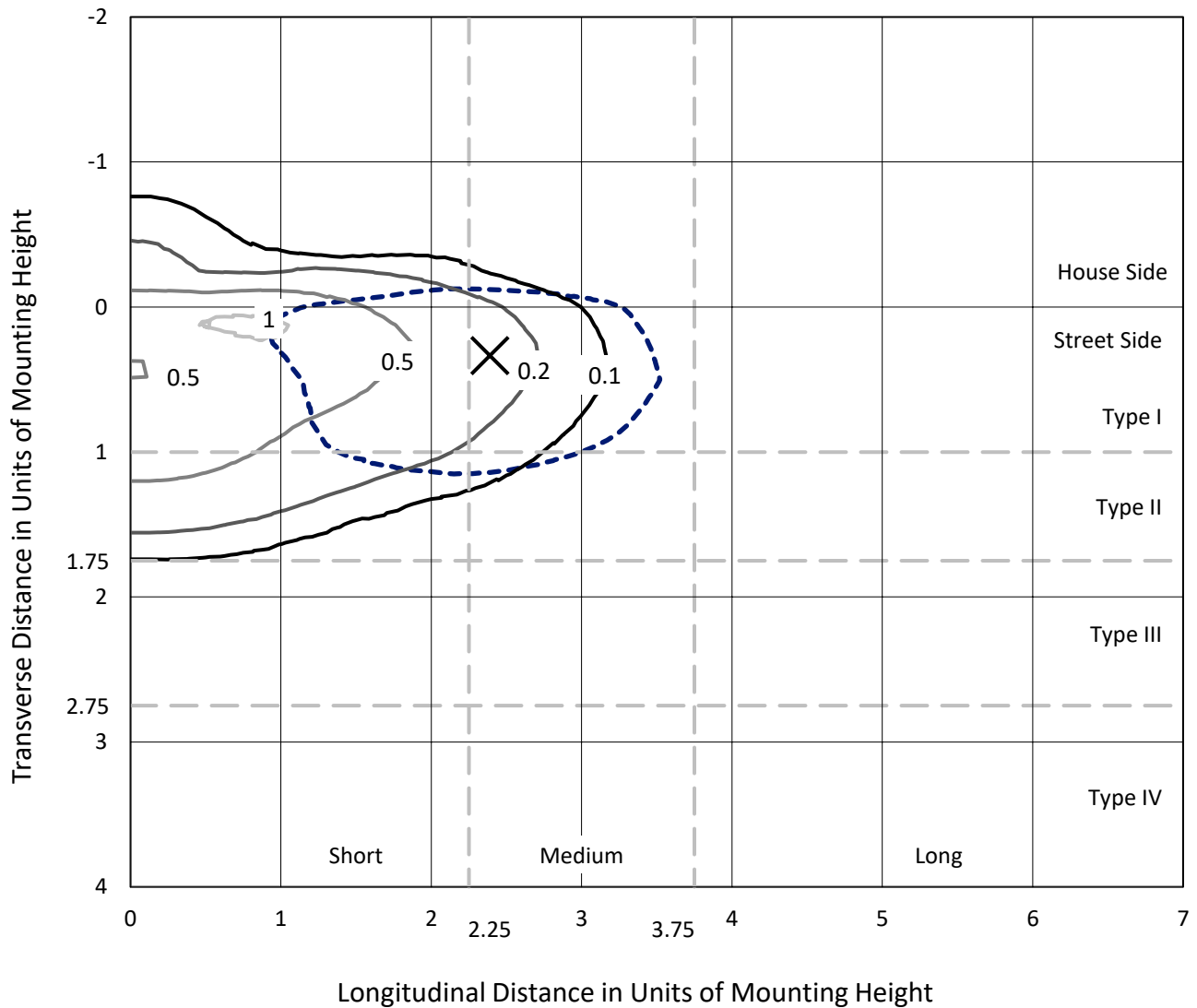
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938824
 CATALOG NUMBER: GALN-SB1A-850-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

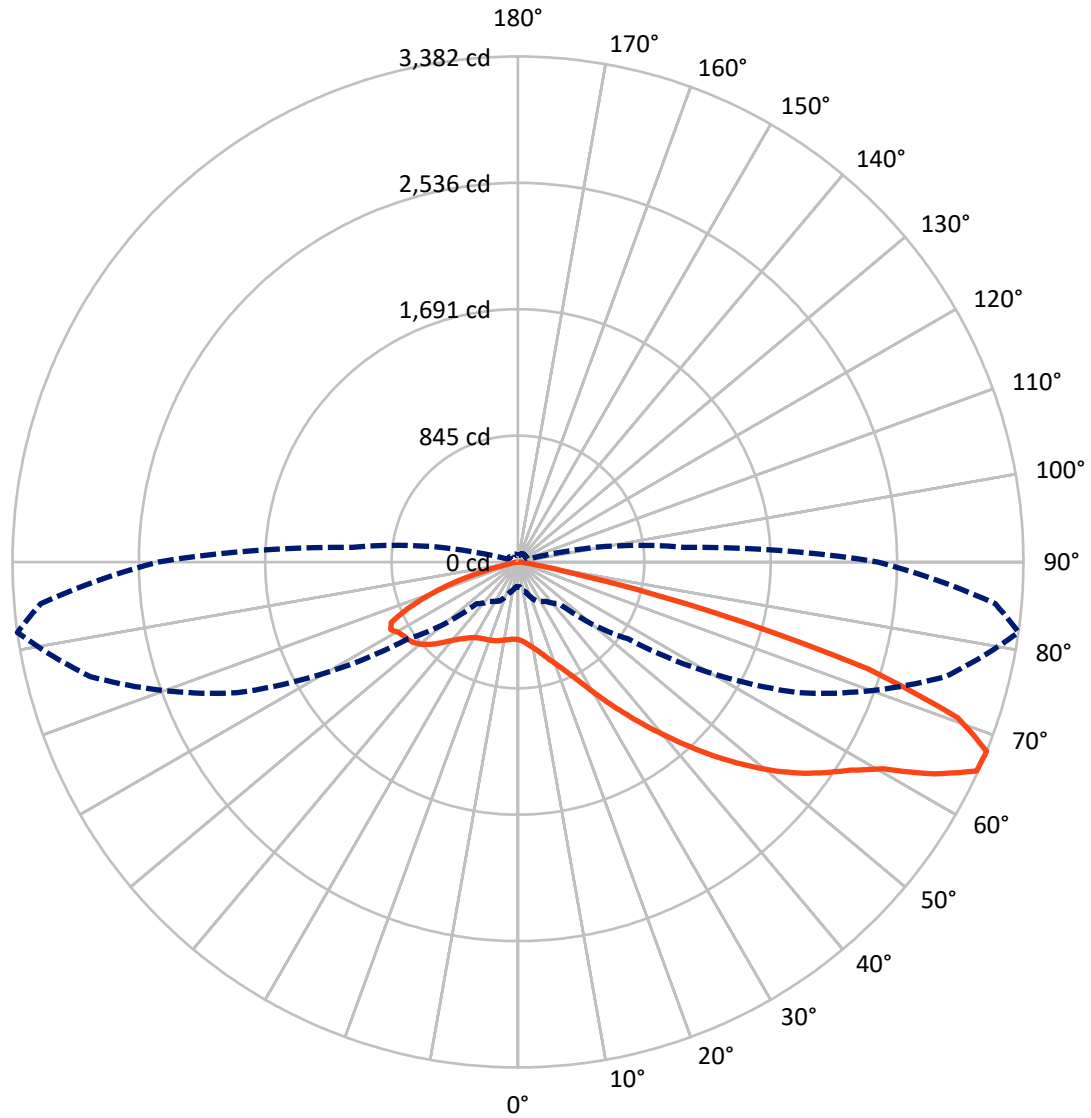
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P938824
CATALOG NUMBER: GALN-SB1A-850-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P938824

CATALOG NUMBER: GALN-SB1A-850-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	567.7	0.0	567.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2566.3	0.0	2566.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	3134.0	0.0	3134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.5
10°-20°	120.2	3.8
20°-30°	192.5	6.1
30°-40°	340.4	10.9
40°-50°	596.5	19.0
50°-60°	795.6	25.4
60°-70°	740.6	23.6
70°-80°	284.2	9.1
80°-90°	17.7	0.6
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°	3134.0	100.0
0°-180°	3134.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938824

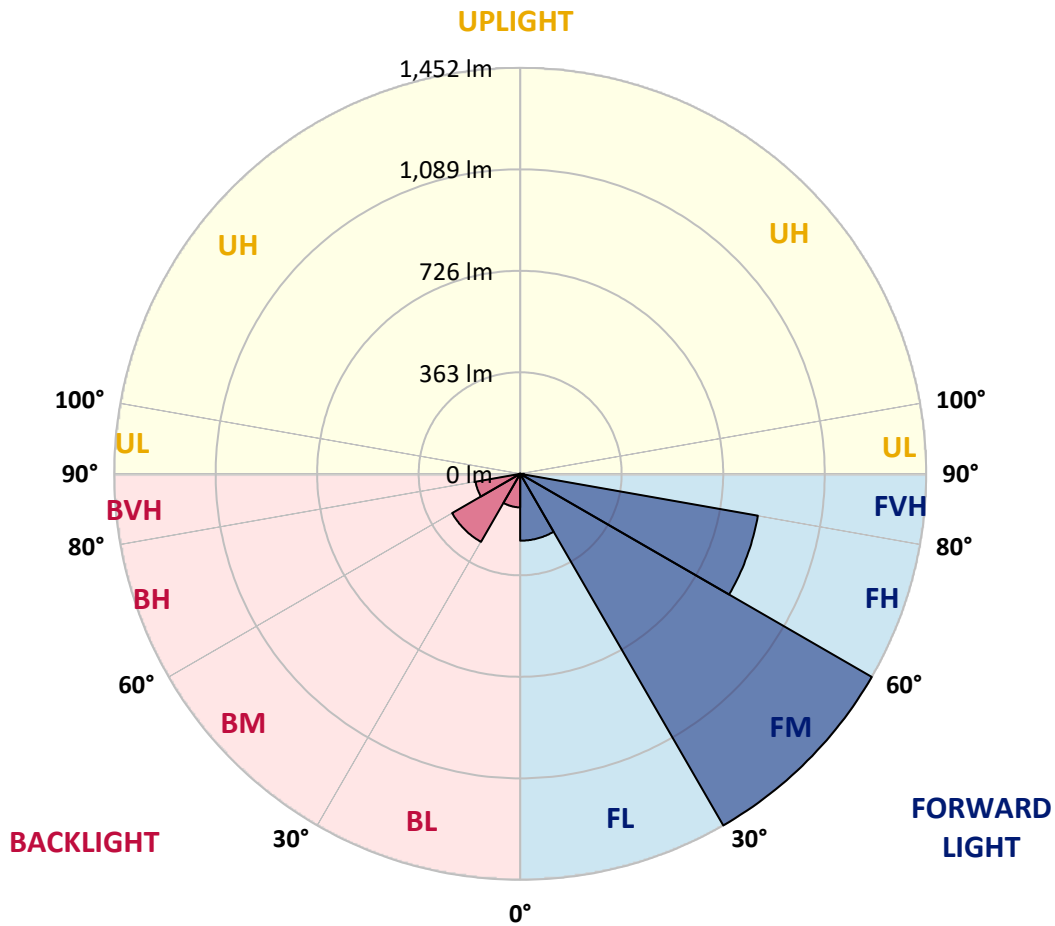
CATALOG NUMBER: GALN-SB1A-850-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.1	7.6			
FM (30°-60°)	1451.5	46.3			
FH (60°-80°)	862.8	27.5			G1/1800
FVH (80°-90°)	12.8	0.4			G1/100
BL (0°-30°)	119.9	3.8	B1/500		
BM (30°-60°)	281.0	9.0	B1/1000		
BH (60°-80°)	162.0	5.2	B1/500		G1/500
BVH (80°-90°)	4.8	0.2			G0/10
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: P938824

CATALOG NUMBER: GALN-SB1A-850-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2
2.5°	548.8	551.9	550.1	549.2	547.6	545.4	543.6	537.9	532.1	528.2
5°	559.8	563.0	562.7	563.6	564.8	565.5	565.0	558.7	550.3	543.8
7.5°	550.3	553.9	556.9	561.4	569.3	577.6	581.7	580.3	571.8	562.7
10°	523.5	527.3	534.3	544.9	561.6	579.7	594.8	601.8	596.4	586.4
12.5°	474.3	478.1	491.9	514.9	542.9	574.3	603.1	621.9	623.2	613.3
15°	419.0	422.8	437.5	466.4	509.0	559.4	607.6	643.1	655.0	646.5
17.5°	384.7	388.1	399.2	422.4	466.8	529.6	606.1	665.6	692.9	686.2
20°	374.3	377.3	382.5	398.7	435.7	498.7	595.7	686.8	733.8	729.9
22.5°	385.4	388.1	389.7	396.9	420.1	478.4	582.6	708.5	781.2	781.6
25°	410.9	413.6	411.8	416.3	426.5	472.0	577.6	734.0	840.7	845.7
27.5°	452.9	453.1	448.8	448.6	450.2	481.5	582.8	761.3	915.9	925.1
30°	537.0	533.6	517.2	499.3	491.2	509.9	597.3	793.6	1004.5	1021.0
32.5°	666.8	661.8	631.6	588.9	546.0	555.8	623.2	830.4	1101.1	1130.9
35°	807.6	806.2	774.6	711.2	636.3	621.0	665.4	878.6	1206.5	1253.9
37.5°	938.4	937.8	919.7	845.0	753.9	711.9	733.1	941.8	1319.3	1387.9
40°	1058.0	1060.1	1042.0	975.2	883.4	828.6	825.2	1019.9	1444.8	1533.9
42.5°	1161.4	1163.6	1145.3	1095.9	1011.3	957.6	938.2	1115.6	1567.3	1690.7
45°	1231.5	1245.5	1242.8	1203.3	1142.6	1086.9	1074.0	1235.6	1707.0	1857.0
47.5°	1251.4	1264.3	1284.6	1290.0	1253.0	1198.1	1213.5	1380.2	1848.2	2023.5
50°	1202.4	1214.4	1256.6	1312.8	1338.5	1321.6	1349.1	1535.3	1992.9	2189.6
52.5°	1105.9	1118.0	1171.3	1260.2	1365.1	1418.4	1485.2	1688.0	2133.0	2346.9
55°	966.2	979.1	1047.4	1148.1	1314.4	1458.3	1598.7	1840.5	2261.4	2488.4
57.5°	776.2	785.7	856.8	997.6	1186.6	1418.6	1682.4	2007.1	2382.3	2627.4
60°	505.9	514.2	596.8	753.9	975.0	1285.9	1699.1	2192.8	2543.0	2808.1
62.5°	336.4	342.1	391.0	506.3	686.6	1031.2	1601.4	2341.0	2778.5	3122.6
65°	230.8	236.5	285.4	365.8	443.6	682.1	1320.4	2321.4	2992.0	3372.4
67.5°	164.7	169.5	211.0	286.8	321.1	396.2	895.1	2070.5	2961.3	3381.9
70°	118.0	120.7	155.0	223.4	255.2	238.1	497.8	1583.5	2592.8	3122.9
72.5°	82.6	83.5	107.6	170.1	205.6	173.7	236.9	1055.8	1961.0	2451.1
75°	56.0	57.1	72.4	124.8	164.9	132.7	125.5	566.1	1151.2	1356.8
77.5°	34.3	34.7	46.7	85.3	123.4	101.1	80.8	239.9	445.4	437.3
80°	19.4	19.4	29.8	53.0	84.2	65.2	56.6	102.0	141.0	123.9
82.5°	10.8	11.1	21.7	32.9	55.7	38.6	31.1	47.2	60.9	53.9
85°	4.5	5.0	13.3	15.6	26.6	19.2	12.6	19.9	22.6	20.1
87.5°	0.5	0.7	4.1	2.9	3.2	3.8	1.8	3.8	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938824
 CATALOG NUMBER: GALN-SB1A-850-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
519.2	0°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2
526.9	2.5°	522.6	519.2	510.6	500.7	487.6	481.3	472.7	466.8	461.9	462.3
540.0	5°	532.7	524.2	505.0	481.1	451.3	430.1	407.5	391.9	379.3	376.6
558.0	7.5°	546.7	533.2	499.6	456.5	406.2	368.0	333.9	312.1	296.5	291.5
579.9	10°	564.8	545.1	492.6	425.6	353.1	304.6	268.1	250.9	240.3	236.7
605.6	12.5°	585.8	558.9	483.3	387.9	298.5	251.8	228.6	220.0	216.6	215.5
637.2	15°	612.2	576.1	469.3	343.2	252.3	219.5	209.6	208.5	208.9	208.5
675.1	17.5°	643.5	594.8	446.5	297.2	221.1	203.1	199.5	200.4	201.5	201.3
717.5	20°	677.8	613.3	417.4	256.3	199.9	191.3	189.3	190.2	191.1	190.7
766.5	22.5°	716.9	633.1	385.2	224.5	185.7	180.5	178.3	178.5	178.5	177.6
828.6	25°	763.6	655.0	351.3	201.9	174.9	170.8	168.1	167.2	165.8	163.1
903.9	27.5°	819.3	678.3	318.8	186.2	166.3	162.5	159.3	157.0	153.7	149.1
994.4	30°	882.0	706.5	291.3	176.2	159.5	155.7	152.1	148.7	143.7	138.1
1098.4	32.5°	955.8	736.7	271.2	169.7	153.4	149.4	145.1	141.0	135.6	130.0
1215.3	35°	1043.8	773.3	259.5	165.2	148.7	143.3	138.5	134.0	130.0	125.0
1342.3	37.5°	1139.3	812.1	255.9	162.9	145.5	137.2	131.8	128.6	128.2	125.2
1479.7	40°	1243.7	858.1	258.6	161.6	142.2	131.3	125.5	124.8	125.9	120.7
1626.6	42.5°	1354.3	912.7	263.1	160.0	137.4	125.5	119.8	119.8	118.9	111.7
1781.9	45°	1473.9	975.7	267.6	156.1	131.8	119.6	115.3	113.7	109.9	102.9
1938.0	47.5°	1594.4	1039.7	271.0	149.1	125.0	114.6	110.8	107.2	101.5	95.2
2091.2	50°	1708.8	1097.3	267.4	138.8	117.3	109.9	105.8	100.9	94.8	90.5
2236.3	52.5°	1811.0	1147.2	252.0	126.6	109.2	104.9	101.3	96.1	91.2	86.6
2367.2	55°	1899.9	1187.5	225.0	115.1	102.0	100.6	97.0	90.5	83.7	79.9
2496.9	57.5°	1985.2	1218.2	191.1	105.6	95.4	95.9	90.5	84.6	78.3	74.2
2671.8	60°	2098.7	1259.3	156.8	96.8	88.5	89.8	83.9	79.7	71.8	66.6
2971.7	62.5°	2280.1	1323.2	124.6	86.0	80.3	80.8	78.3	73.1	63.6	57.5
3193.9	65°	2424.1	1299.7	98.2	74.2	71.1	71.8	71.8	66.1	56.0	49.0
3205.9	67.5°	2407.8	1112.9	78.3	62.7	62.3	62.7	64.3	59.6	49.6	44.0
2961.8	70°	2218.0	885.2	62.7	52.1	54.2	53.0	57.5	54.4	44.7	39.0
2296.1	72.5°	1809.9	637.7	47.8	43.1	41.5	43.3	51.9	49.0	37.2	30.9
1216.2	75°	1057.6	340.3	35.7	34.1	30.0	36.1	46.0	41.7	28.4	22.8
372.8	77.5°	344.3	118.7	26.2	25.0	22.3	29.1	39.3	35.2	23.2	18.1
109.2	80°	92.3	35.9	17.8	16.5	14.4	21.7	31.1	28.0	16.7	11.7
46.9	82.5°	37.0	15.1	10.4	9.3	7.9	14.9	24.6	22.6	12.4	7.4
14.7	85°	12.0	5.0	3.8	2.9	3.6	9.3	14.7	15.3	8.8	3.8
2.3	87.5°	1.6	0.7	0.7	0.9	0.7	1.6	4.5	4.3	2.5	0.5
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>
519.2
457.8
370.5
286.6
234.0
214.8
208.3
200.8
190.4
177.1
162.7
148.7
137.6
130.2
124.6
125.0
120.9
111.7
102.7
95.0
89.8
86.2
79.4
73.8
65.9
57.1
48.3
43.1
38.4
30.2
22.1
17.4
11.5
7.4
2.9
0.0
0.0

F REPORT)