

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: P946588

Luminaire Tested: **GALN-SB2A-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4968 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

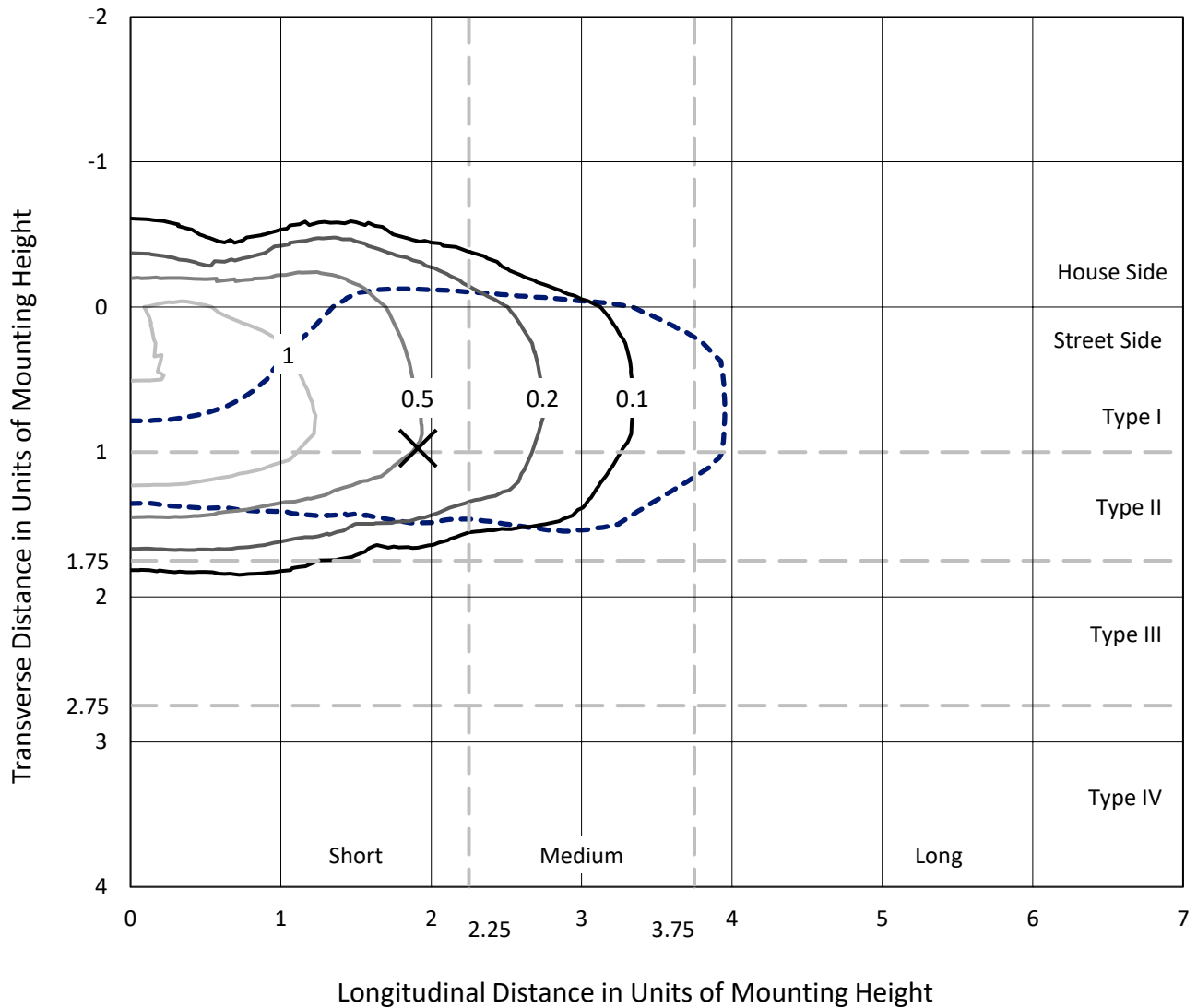
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946588
 CATALOG NUMBER: GALN-SB2A-940-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

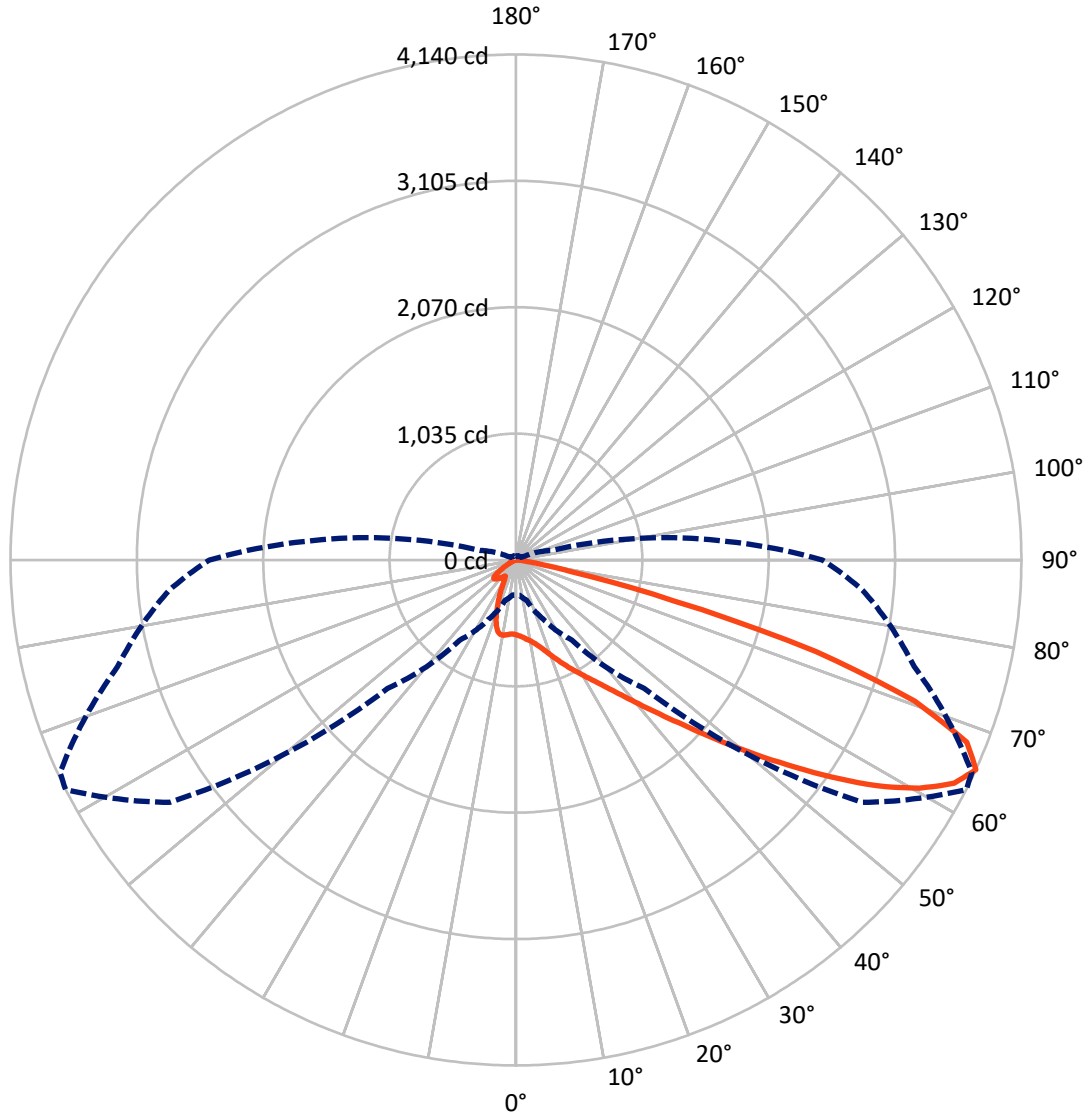
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

REPORT NUMBER: P946588
CATALOG NUMBER: GALN-SB2A-940-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P946588
 CATALOG NUMBER: GALN-SB2A-940-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	730.3	0.0	730.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4237.8	0.0	4237.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	4968.0	0.0	4968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	1.2
10°-20°	160.3	3.2
20°-30°	279.1	5.6
30°-40°	503.1	10.1
40°-50°	997.7	20.1
50°-60°	1359.1	27.4
60°-70°	1084.8	21.8
70°-80°	490.9	9.9
80°-90°	35.3	0.7
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°	4968.0	100.0
0°-180°	4968.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946588

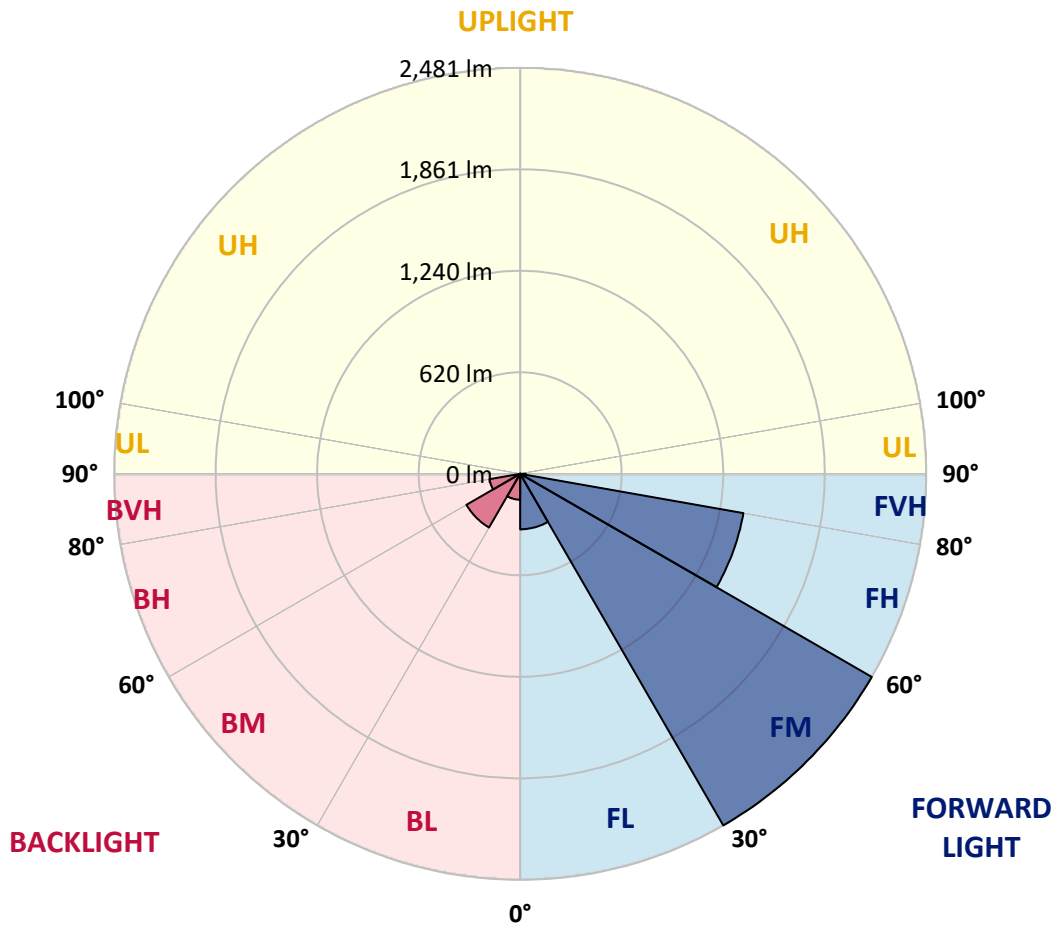
CATALOG NUMBER: GALN-SB2A-940-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.1	6.8			
FM (30°-60°)	2480.9	49.9			
FH (60°-80°)	1385.1	27.9			G1/1800
FVH (80°-90°)	32.7	0.7			G1/100
BL (0°-30°)	158.0	3.2	B1/500		
BM (30°-60°)	379.0	7.6	B1/1000		
BH (60°-80°)	190.6	3.8	B1/500		G1/500
BVH (80°-90°)	2.6	0.1			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 Short



REPORT NUMBER: P946588

CATALOG NUMBER: GALN-SB2A-940-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
2.5°	627.5	625.8	628.2	627.2	626.5	625.1	624.4	623.7	622.4	621.3
5°	629.2	628.2	630.6	632.6	634.7	636.7	637.8	639.1	637.8	635.0
7.5°	614.9	614.2	619.3	625.4	634.7	642.5	651.1	655.9	656.2	655.2
10°	613.8	612.1	617.2	624.8	636.7	650.7	665.8	676.0	677.4	681.8
12.5°	629.9	628.2	635.4	643.6	655.9	670.6	689.0	703.4	705.4	711.6
15°	656.9	654.5	662.7	673.3	689.0	705.8	725.2	738.2	739.9	747.5
17.5°	688.3	685.9	695.5	706.8	723.9	746.8	769.3	783.7	785.7	790.5
20°	728.7	725.6	733.1	743.4	761.5	788.8	815.8	836.3	836.0	836.0
22.5°	775.5	770.7	777.2	785.4	802.5	835.6	871.5	895.8	895.8	886.2
25°	825.7	820.9	828.1	835.6	850.7	888.3	930.3	960.4	961.8	945.4
27.5°	888.6	882.5	887.9	896.8	905.7	944.0	993.9	1028.7	1029.4	1004.1
30°	1009.6	992.2	975.1	965.5	969.6	1007.6	1060.9	1099.5	1102.9	1068.0
32.5°	1231.1	1227.7	1167.5	1088.9	1047.9	1075.9	1135.7	1182.2	1184.3	1139.5
35°	1575.2	1571.1	1474.4	1324.7	1191.1	1167.5	1226.6	1281.7	1280.3	1229.7
37.5°	1986.1	1982.3	1854.8	1654.5	1438.2	1305.9	1343.9	1401.6	1410.2	1343.9
40°	2337.1	2323.0	2242.4	2049.3	1766.3	1535.6	1510.6	1548.9	1557.8	1479.2
42.5°	2603.0	2591.0	2550.0	2429.3	2163.4	1875.3	1707.2	1721.9	1731.8	1637.4
45°	2740.7	2738.0	2754.4	2743.1	2568.1	2292.3	1988.1	1926.9	1930.7	1812.8
47.5°	2760.2	2758.8	2833.7	2939.6	2916.0	2762.6	2348.7	2182.6	2169.2	2010.7
50°	2645.3	2642.6	2786.2	2984.7	3148.4	3157.7	2758.1	2470.7	2441.3	2215.4
52.5°	2278.6	2277.9	2513.8	2844.3	3230.1	3503.5	3162.8	2787.2	2738.0	2432.1
55°	1753.3	1766.0	2036.3	2426.9	3081.1	3670.0	3526.1	3138.5	3063.0	2650.1
57.5°	1242.0	1260.5	1527.7	1875.7	2619.0	3571.6	3771.8	3490.6	3409.2	2867.5
60°	667.1	683.6	951.2	1366.4	1948.5	3204.5	3901.4	3796.1	3719.2	3073.9
62.5°	397.5	403.0	513.7	882.1	1317.9	2448.1	3846.3	4028.8	3965.6	3247.2
65°	285.4	286.4	342.1	538.6	800.1	1487.4	3460.5	4140.3	4120.8	3377.8
67.5°	240.3	239.6	262.8	357.8	545.1	745.1	2652.2	3982.7	4065.4	3460.5
70°	206.1	207.1	234.5	262.1	409.8	421.8	1318.6	3467.7	3644.0	3482.3
72.5°	153.5	156.9	182.2	238.9	309.3	290.2	455.2	2571.2	2890.1	3281.0
75°	108.3	110.1	128.2	201.0	230.7	211.2	232.4	1329.2	1737.9	2515.5
77.5°	83.4	86.5	97.1	140.5	227.3	148.3	142.2	460.0	706.8	1519.5
80°	45.1	50.6	70.1	101.5	159.6	104.9	70.4	183.2	239.6	710.6
82.5°	23.2	26.0	48.9	73.1	90.9	91.6	34.9	76.2	98.8	219.4
85°	9.2	11.3	32.8	40.3	46.8	45.1	15.7	30.8	35.5	60.8
87.5°	2.1	3.4	12.0	9.2	8.9	9.6	3.8	7.2	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946588
 CATALOG NUMBER: GALN-SB2A-940-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
613.1	0°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
617.2	2.5°	616.9	615.5	611.8	607.7	602.9	600.2	598.4	598.1	595.7	594.0
630.9	5°	627.2	625.8	618.6	610.1	600.8	593.7	586.8	580.7	571.8	570.1
650.7	7.5°	647.7	643.9	632.3	620.7	603.2	582.4	557.1	528.0	502.1	494.2
677.1	10°	673.0	667.8	653.1	632.6	594.0	537.3	476.1	419.4	374.2	361.6
708.2	12.5°	701.7	697.2	677.7	639.8	555.4	452.5	358.9	288.5	244.7	233.8
741.3	15°	735.8	729.3	702.3	628.9	486.3	343.8	246.4	204.7	189.0	187.0
779.2	17.5°	772.1	761.5	724.2	589.6	393.4	244.4	190.4	178.4	171.6	169.5
817.5	20°	805.2	791.6	737.2	530.1	293.9	190.4	170.5	162.7	156.5	154.1
855.8	22.5°	838.4	818.9	737.2	449.1	220.4	168.8	156.5	149.4	142.2	139.1
896.8	25°	872.9	846.9	724.2	358.9	177.4	154.8	143.2	135.3	129.2	125.4
935.8	27.5°	906.4	870.5	694.5	273.4	157.9	142.5	130.9	123.4	117.6	114.8
978.2	30°	938.2	893.7	652.8	207.5	145.3	130.6	119.6	113.1	107.3	104.6
1033.2	32.5°	981.2	923.1	608.4	170.2	134.3	119.3	109.4	103.2	98.1	96.0
1104.6	35°	1041.0	966.5	570.1	167.1	125.1	110.1	100.1	94.3	89.2	87.5
1196.9	37.5°	1125.8	1036.6	549.9	187.6	117.6	101.8	92.6	86.5	81.7	80.3
1314.1	40°	1230.4	1131.6	560.9	208.1	112.4	94.7	85.8	79.6	75.5	73.8
1448.8	42.5°	1354.5	1248.8	621.3	223.9	109.0	88.5	79.3	72.5	69.7	69.0
1601.6	45°	1497.0	1377.7	714.0	240.6	103.6	82.7	72.8	67.7	65.6	65.3
1767.7	47.5°	1659.0	1519.2	821.3	261.5	98.1	77.2	67.7	64.3	62.5	61.9
1940.9	50°	1819.6	1661.7	931.7	273.1	93.6	72.1	63.6	60.8	59.5	59.1
2124.1	52.5°	1987.8	1808.3	1020.9	262.1	89.9	68.0	60.2	58.1	56.7	56.4
2293.0	55°	2148.1	1926.9	1036.3	222.5	82.4	63.9	56.4	55.4	53.7	53.7
2464.2	57.5°	2286.1	1986.4	927.6	163.4	74.8	57.8	52.6	51.6	50.2	49.9
2618.7	60°	2412.9	1969.3	716.0	110.1	66.6	51.6	47.8	47.2	45.8	44.1
2753.0	62.5°	2484.4	1894.1	489.8	71.8	58.4	45.1	42.4	42.0	39.0	35.5
2852.5	65°	2511.4	1739.6	305.5	52.3	48.9	38.6	36.6	35.9	31.4	27.7
2908.9	67.5°	2487.8	1485.4	154.1	41.4	38.6	32.1	30.1	30.1	27.0	23.6
2905.4	70°	2393.5	1113.5	64.9	33.2	29.7	24.6	24.6	26.0	22.9	19.1
2754.7	72.5°	2188.7	749.2	34.5	25.3	22.2	17.4	20.2	21.2	18.1	14.4
2254.7	75°	1740.0	457.0	23.9	18.8	14.0	12.3	15.4	16.1	12.3	9.6
1545.9	77.5°	1190.1	262.5	16.1	12.0	8.9	7.2	10.6	9.9	6.5	4.4
596.1	80°	522.6	109.4	9.2	5.5	3.4	2.7	3.8	2.7	2.1	1.4
81.7	82.5°	61.2	25.6	3.4	2.1	1.4	0.7	0.3	0.0	0.0	0.0
24.9	85°	12.6	3.1	1.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0
4.4	87.5°	2.4	0.7	0.3	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>
613.1
595.7
569.4
490.4
356.8
230.7
184.9
168.5
152.8
137.4
124.1
114.8
104.9
96.0
87.5
80.0
73.5
69.0
64.9
61.9
59.1
56.4
53.3
49.6
43.7
34.9
27.3
23.2
18.8
14.4
9.2
4.8
1.4
0.0
0.0
0.0
0.0

F REPORT)