

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: P946170

Luminaire Tested: **GALN-SB1D-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5159 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

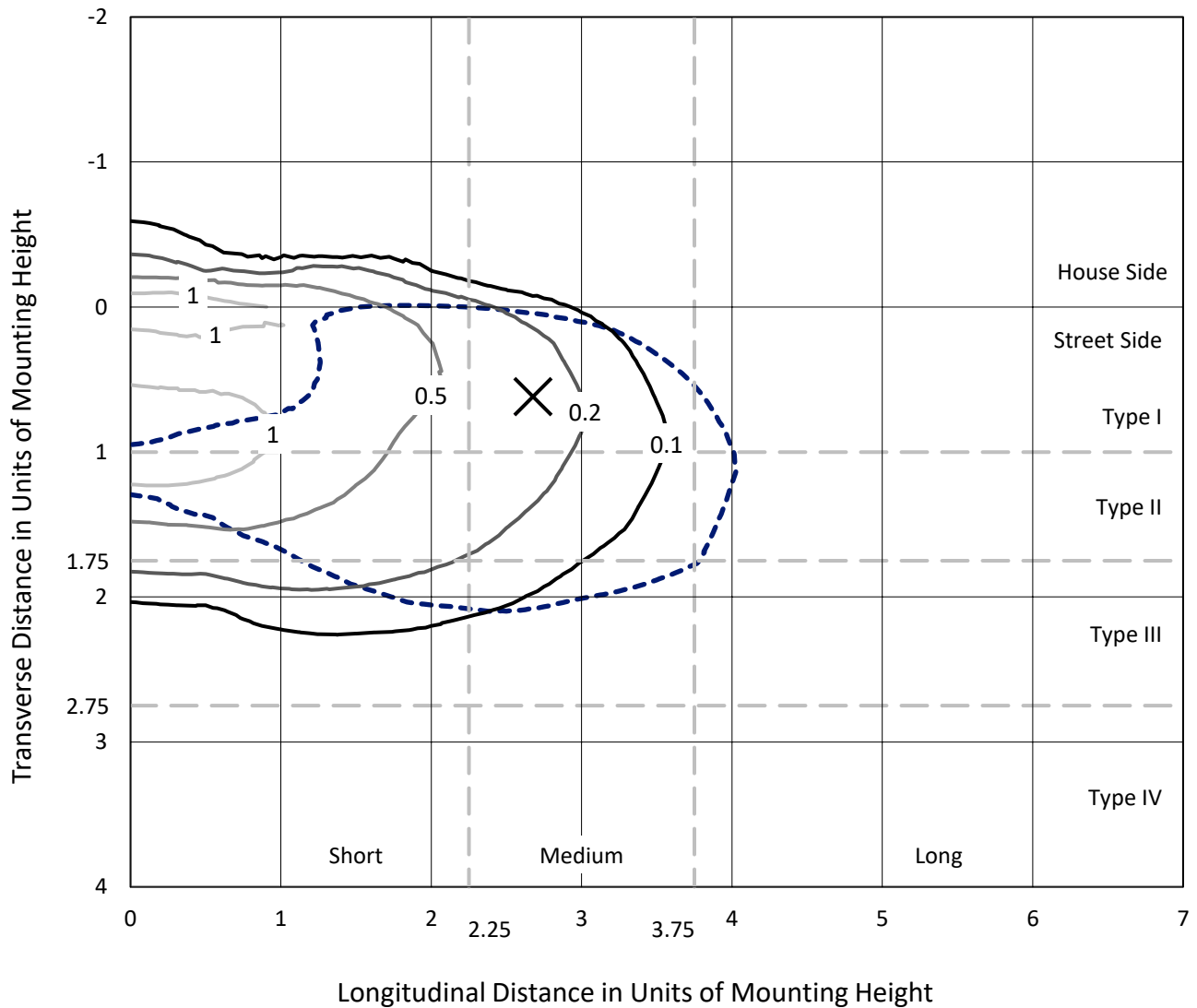
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946170
 CATALOG NUMBER: GALN-SB1D-927-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

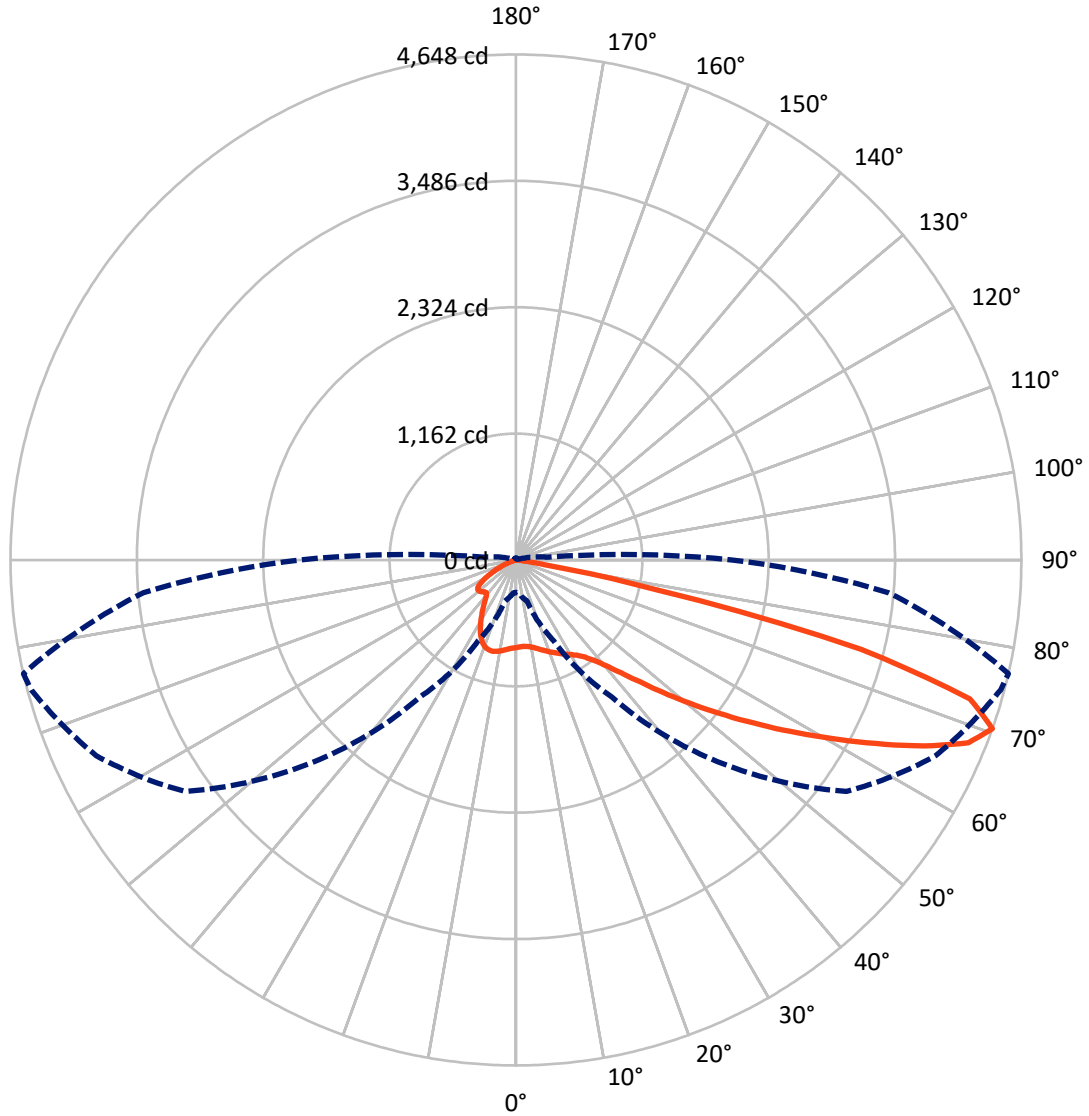
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P946170
CATALOG NUMBER: GALN-SB1D-927-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P946170
 CATALOG NUMBER: GALN-SB1D-927-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	543.8	0.0	543.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4615.2	0.0	4615.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	5159.0	0.0	5159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.3
10°-20°	164.6	3.2
20°-30°	254.6	4.9
30°-40°	462.1	9.0
40°-50°	872.2	16.9
50°-60°	1260.3	24.4
60°-70°	1341.5	26.0
70°-80°	710.9	13.8
80°-90°	23.3	0.5
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°	5159.0	100.0
0°-180°	5159.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946170

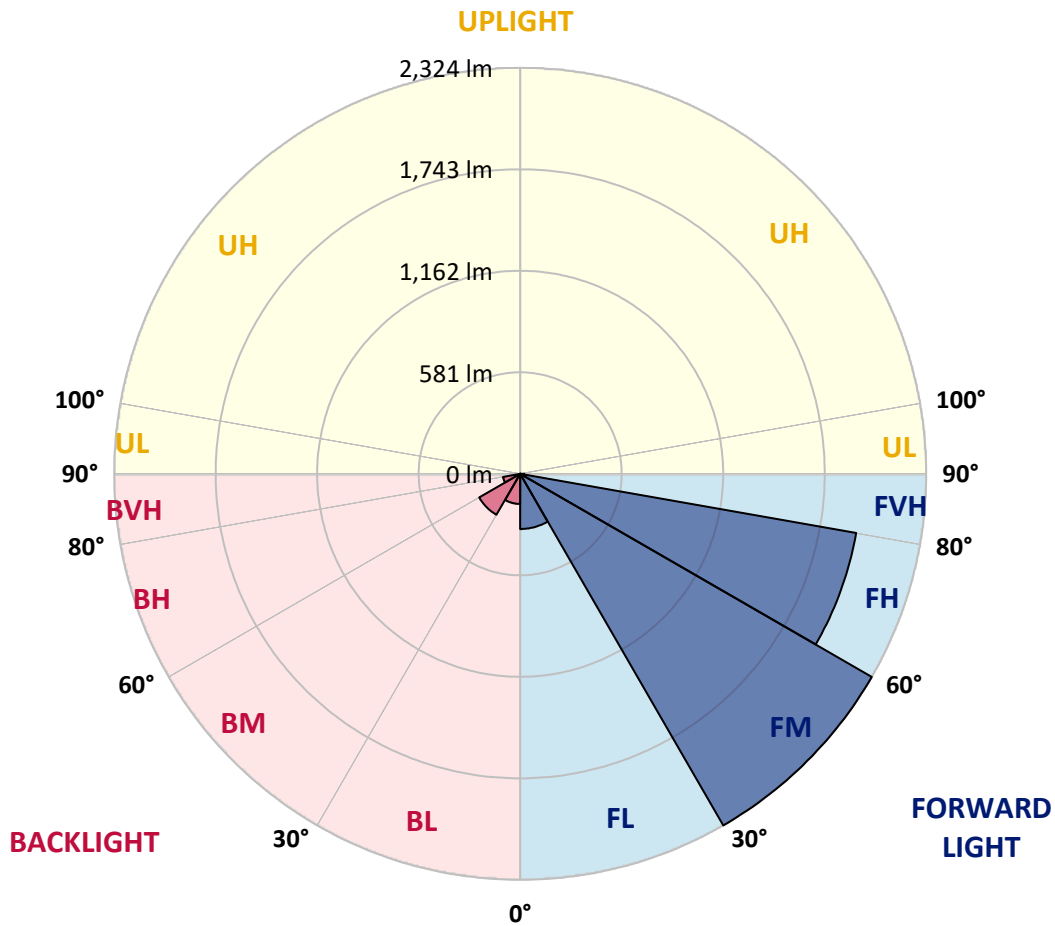
CATALOG NUMBER: GALN-SB1D-927-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.9	6.1			
FM (30°-60°)	2323.8	45.0			
FH (60°-80°)	1952.8	37.9			G2/5000
FVH (80°-90°)	22.7	0.4			G1/100
BL (0°-30°)	172.8	3.3	B1/500		
BM (30°-60°)	270.7	5.2	B1/1000		
BH (60°-80°)	99.7	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



REPORT NUMBER: P946170
 CATALOG NUMBER: GALN-SB1D-927-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7
2.5°	755.5	762.4	761.4	765.9	767.6	774.1	780.6	789.4	799.2	798.8
5°	712.8	719.7	721.3	727.5	735.3	745.4	758.8	776.4	794.6	797.5
7.5°	662.3	669.5	673.7	686.1	700.5	721.3	743.1	768.9	799.2	803.4
10°	611.8	618.4	623.9	641.5	664.3	695.2	730.8	767.9	808.6	814.8
12.5°	580.6	586.8	592.9	608.3	636.6	674.4	722.6	772.5	824.3	833.1
15°	569.5	575.0	579.9	593.6	620.0	663.0	721.0	781.9	844.1	855.9
17.5°	571.1	574.0	577.3	587.7	613.5	657.8	723.9	798.2	867.6	878.0
20°	580.6	582.2	582.5	589.7	612.5	657.1	729.8	813.8	889.7	903.8
22.5°	592.6	593.3	592.6	597.5	618.7	662.0	737.6	832.7	914.5	927.5
25°	649.0	636.6	621.0	611.5	629.1	671.5	749.3	858.1	941.5	954.3
27.5°	823.9	788.4	732.4	669.5	650.6	685.1	765.6	883.9	968.9	980.3
30°	1108.0	1061.4	966.3	824.6	719.7	713.8	786.8	909.6	997.9	1010.3
32.5°	1392.8	1381.4	1271.6	1075.4	875.1	777.7	822.0	944.5	1036.4	1046.1
35°	1680.8	1657.6	1567.7	1373.9	1114.5	907.7	880.6	990.1	1086.8	1097.9
37.5°	1901.3	1887.3	1831.6	1672.0	1398.6	1108.4	981.0	1060.8	1160.2	1172.5
40°	2096.2	2089.6	2070.7	1965.5	1716.3	1370.9	1137.0	1170.3	1261.8	1276.5
42.5°	2249.3	2264.6	2275.3	2246.0	2043.7	1670.7	1346.8	1324.0	1403.5	1418.5
45°	2406.0	2411.2	2454.5	2496.9	2368.8	1984.1	1583.4	1504.2	1579.8	1598.3
47.5°	2506.7	2527.5	2603.7	2678.4	2642.2	2294.9	1837.5	1716.9	1784.0	1818.9
50°	2514.2	2553.6	2658.5	2788.5	2841.2	2590.7	2113.8	1959.3	2030.7	2069.1
52.5°	2389.4	2450.6	2613.2	2803.5	2948.8	2841.2	2399.5	2201.7	2293.3	2343.4
55°	1831.9	1912.1	2442.8	2722.0	2953.0	3031.2	2677.7	2454.2	2585.8	2642.5
57.5°	1596.1	1636.5	1920.6	2580.6	2874.5	3107.7	2929.2	2694.6	2904.1	2974.5
60°	1327.9	1381.0	1610.7	2349.3	2767.9	3115.2	3151.4	3004.8	3249.1	3328.3
62.5°	902.4	960.1	1188.5	1951.8	2622.3	3111.7	3333.5	3324.1	3632.6	3717.6
65°	559.1	595.2	745.7	1593.8	2418.7	3115.6	3524.1	3711.8	4037.2	4123.6
67.5°	441.8	458.4	536.9	1223.7	2067.8	3027.6	3714.4	4076.3	4418.1	4486.5
70°	296.8	306.9	390.6	820.3	1538.4	2621.7	3710.8	4259.4	4614.2	4648.4
72.5°	156.4	164.2	228.4	379.9	929.2	1863.5	3127.9	4040.5	4419.1	4367.6
75°	78.2	91.2	153.8	192.9	396.8	1039.3	1942.4	3185.6	3478.2	3278.8
77.5°	59.3	71.7	127.1	127.1	138.1	349.9	822.6	1737.5	1602.6	1334.5
80°	37.8	48.9	111.1	96.1	57.7	88.9	214.4	486.7	340.5	259.0
82.5°	22.2	31.9	92.5	63.5	32.3	32.9	60.6	103.6	88.3	68.7
85°	8.8	20.9	63.5	25.1	12.7	8.1	18.2	22.2	18.2	13.7
87.5°	0.0	4.9	11.1	0.0	1.0	0.7	1.3	1.6	1.6	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946170
 CATALOG NUMBER: GALN-SB1D-927-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
804.7	0°	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7
805.4	2.5°	808.3	808.9	810.9	811.2	806.7	800.8	798.5	797.5	793.6	793.3
810.6	5°	818.1	821.0	818.1	809.6	789.4	761.1	739.6	722.0	706.0	701.1
828.5	7.5°	837.6	840.5	831.8	798.5	747.7	691.3	640.5	604.7	572.4	560.4
850.3	10°	865.6	869.5	841.9	774.7	684.8	594.2	508.2	447.6	400.4	381.2
880.0	12.5°	900.8	902.4	847.4	738.6	603.0	473.7	351.9	287.0	245.0	229.4
915.8	15°	939.6	937.3	848.0	689.4	491.6	334.9	229.7	188.6	171.7	166.5
951.6	17.5°	980.3	970.9	835.0	618.4	369.5	229.0	170.4	160.6	157.7	156.4
987.2	20°	1020.4	999.2	811.2	525.5	265.2	171.0	154.8	151.8	150.2	149.5
1023.0	22.5°	1056.9	1020.7	770.5	417.7	192.5	151.2	146.3	143.7	140.7	139.4
1057.9	25°	1092.4	1033.1	713.2	317.0	154.1	141.4	137.5	132.6	128.7	127.1
1095.3	27.5°	1126.9	1040.9	641.5	234.6	137.5	132.3	125.1	118.3	115.3	114.7
1135.4	30°	1163.7	1043.5	560.0	175.0	127.4	120.9	110.4	102.6	101.0	101.3
1189.5	32.5°	1208.7	1047.4	477.9	143.3	118.9	107.2	94.8	86.7	85.4	86.7
1268.3	35°	1262.5	1055.2	398.8	131.9	111.4	93.2	79.8	73.0	71.7	72.7
1369.3	37.5°	1335.4	1068.0	324.8	129.7	105.2	81.4	67.1	61.6	61.6	61.9
1493.1	40°	1432.5	1101.8	258.7	128.0	102.0	72.7	56.7	54.4	55.4	56.0
1650.8	42.5°	1550.8	1173.8	214.0	126.1	98.4	68.7	51.5	50.5	52.1	52.8
1839.8	45°	1683.4	1265.1	198.4	122.8	95.1	71.3	49.2	47.9	49.8	50.2
2051.5	47.5°	1820.5	1354.3	196.5	119.2	91.9	75.3	48.5	45.6	47.9	48.2
2277.6	50°	1959.3	1412.6	198.4	113.7	86.7	75.3	48.9	43.3	45.3	46.3
2512.2	52.5°	2099.1	1439.4	197.1	101.6	77.5	70.7	48.9	41.4	43.3	44.0
2765.7	55°	2234.6	1434.1	177.2	83.7	65.8	62.6	47.6	39.7	41.1	41.4
3005.1	57.5°	2341.8	1361.5	140.4	65.2	53.4	52.1	43.3	37.8	38.8	38.4
3224.7	60°	2397.8	1201.9	100.3	50.2	42.0	41.1	38.1	35.2	35.8	34.2
3410.7	62.5°	2398.5	990.7	67.1	39.7	33.6	32.6	32.6	31.6	31.0	27.7
3554.7	65°	2347.3	756.5	44.6	31.6	27.0	25.4	27.4	27.0	24.8	20.2
3598.7	67.5°	2231.4	495.9	33.9	24.8	20.9	19.9	21.8	22.8	21.2	16.9
3438.4	70°	1992.9	288.7	28.0	19.2	15.6	14.7	17.6	19.5	17.6	13.7
2939.0	72.5°	1655.4	155.7	22.8	14.3	10.8	9.8	14.0	16.0	14.0	10.1
1885.7	75°	1074.1	83.4	17.6	9.4	5.5	6.2	10.4	11.7	9.8	6.5
553.5	77.5°	360.7	36.8	11.1	4.6	2.6	2.6	6.2	7.2	4.6	2.3
100.7	80°	80.5	15.3	4.6	2.0	1.0	1.0	1.3	1.3	0.7	0.0
31.0	82.5°	26.4	6.2	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
7.8	85°	10.1	2.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	87.5°	3.9	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>
804.7
794.0
698.2
555.5
373.0
224.5
166.5
156.1
148.9
139.1
126.4
114.0
101.3
86.3
72.3
61.6
56.0
52.8
50.5
48.5
46.6
44.0
41.4
38.4
33.9
26.7
19.5
16.6
13.0
9.8
5.9
2.0
0.0
0.0
0.0
0.0
0.0

F REPORT)