

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: P939122

Luminaire Tested: **GALN-SB1C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6458 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

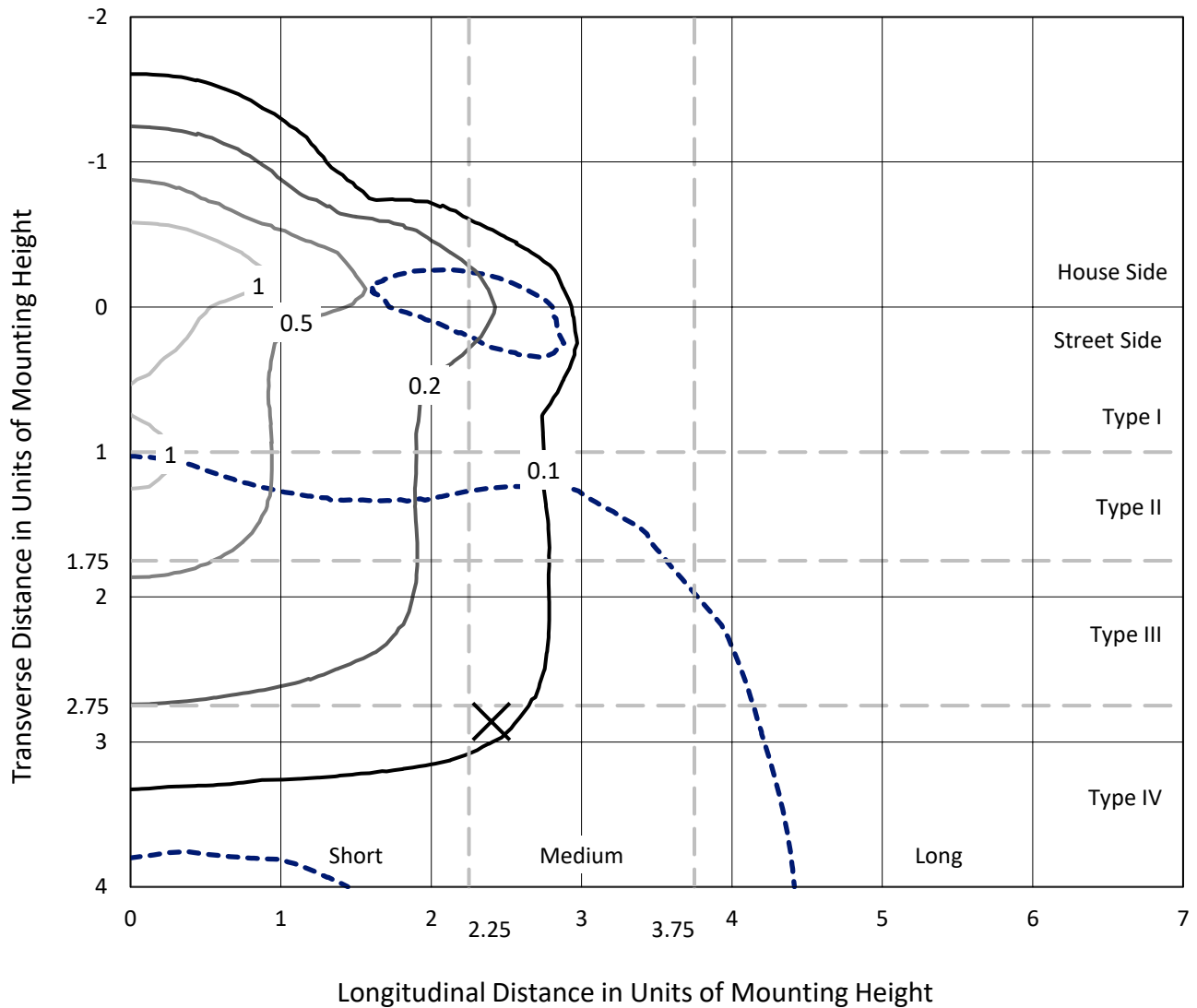
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939122
 CATALOG NUMBER: GALN-SB1C-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

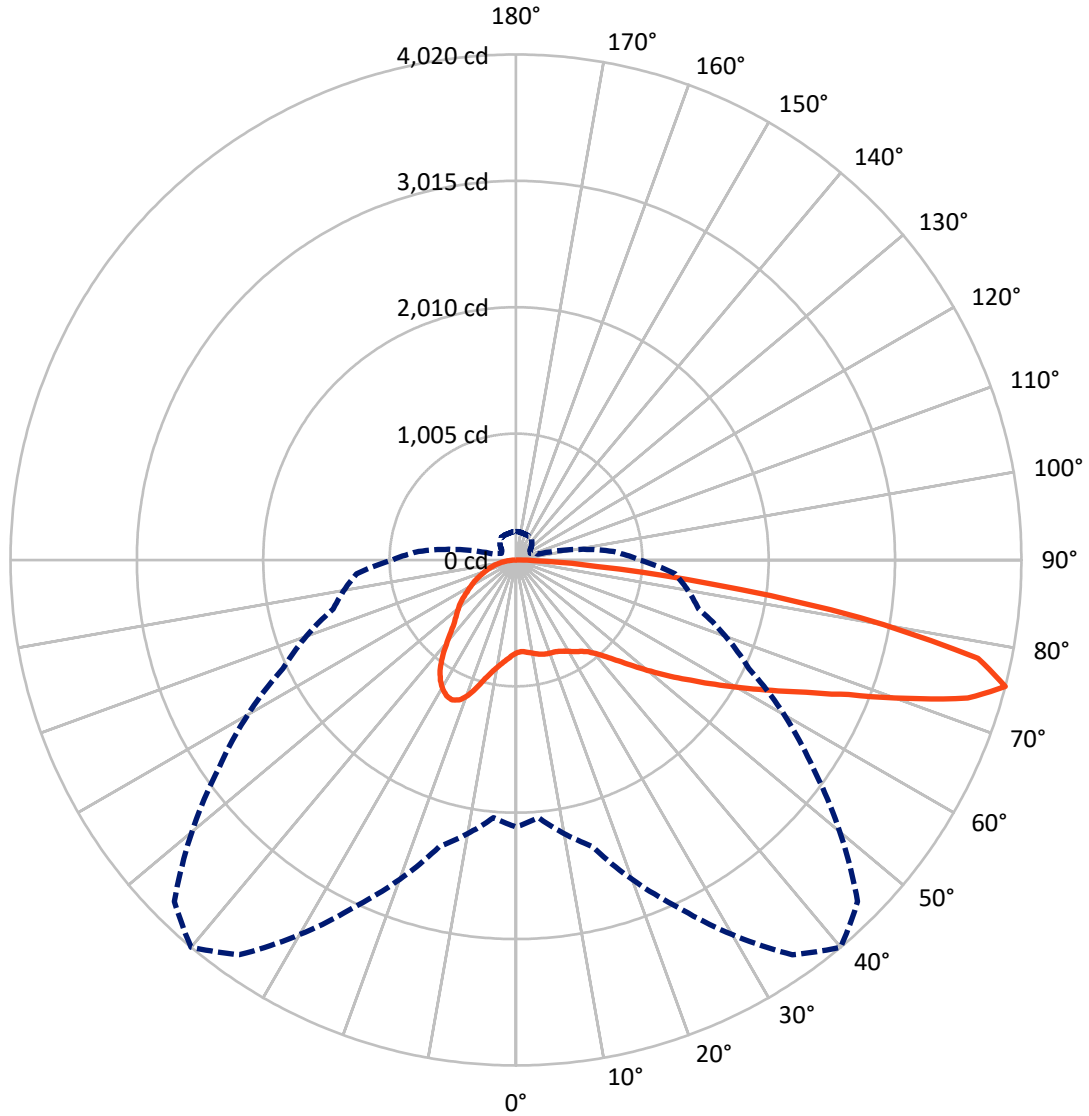
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P939122
CATALOG NUMBER: GALN-SB1C-827-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P939122
 CATALOG NUMBER: GALN-SB1C-827-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2000.9	0.0	2000.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4457.1	0.0	4457.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	6458.0	0.0	6458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.1
10°-20°	247.5	3.8
20°-30°	451.9	7.0
30°-40°	640.9	9.9
40°-50°	865.4	13.4
50°-60°	1164.2	18.0
60°-70°	1477.7	22.9
70°-80°	1341.1	20.8
80°-90°	195.5	3.0
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°	6458.0	100.0
0°-180°	6458.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939122

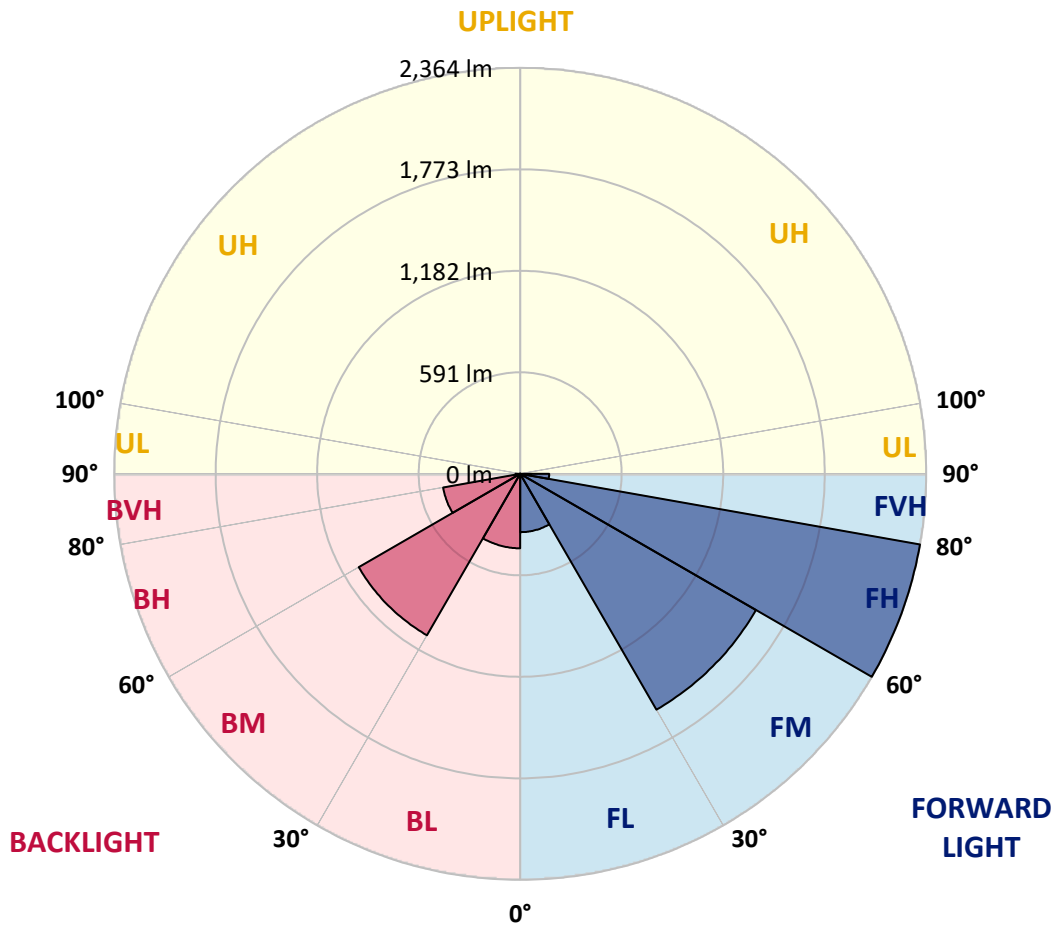
CATALOG NUMBER: GALN-SB1C-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.7	5.3			
FM (30°-60°)	1585.3	24.5			
FH (60°-80°)	2363.5	36.6			G2/5000
FVH (80°-90°)	168.6	2.6			G2/225
BL (0°-30°)	433.4	6.7	B1/500		
BM (30°-60°)	1085.3	16.8	B2/2500		
BH (60°-80°)	455.3	7.0	B1/500		G1/500
BVH (80°-90°)	26.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



REPORT NUMBER: P939122
 CATALOG NUMBER: GALN-SB1C-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5
2.5°	727.2	731.3	730.3	728.9	728.9	729.2	728.9	731.3	733.7	736.1
5°	734.7	738.8	736.8	735.1	733.7	733.3	732.3	732.0	733.3	736.4
7.5°	749.4	753.6	750.5	747.4	744.6	743.3	741.9	739.9	738.8	740.5
10°	765.9	770.0	766.2	760.7	756.3	754.6	753.2	751.2	749.8	750.8
12.5°	782.3	786.4	781.3	773.8	767.9	766.9	765.2	764.5	764.2	763.8
15°	797.7	801.2	794.7	785.7	779.6	777.9	776.2	777.2	778.9	781.0
17.5°	809.7	813.2	803.6	791.9	786.1	785.4	784.4	787.8	792.6	797.7
20°	820.7	824.1	811.8	796.0	789.2	789.2	789.5	796.7	803.6	811.1
22.5°	836.1	838.8	823.8	802.2	792.3	792.9	795.7	802.9	811.4	821.7
25°	859.0	861.1	842.6	813.8	802.5	804.6	807.0	810.4	818.6	830.6
27.5°	896.0	897.8	873.4	834.4	817.3	820.7	824.1	821.7	825.5	835.8
30°	948.1	949.1	918.3	866.6	842.3	844.0	844.7	834.7	827.5	835.8
32.5°	1009.8	1009.4	972.8	905.6	870.7	869.0	863.2	843.6	826.9	834.0
35°	1105.3	1101.6	1054.3	960.4	902.9	892.3	878.6	853.6	830.3	832.3
37.5°	1263.6	1251.9	1186.5	1050.2	950.8	923.8	903.6	869.7	837.8	831.6
40°	1442.0	1427.3	1355.4	1173.1	1022.8	979.3	946.7	892.6	850.1	834.7
42.5°	1653.7	1632.8	1555.4	1318.0	1113.9	1050.9	1001.9	921.7	868.3	844.7
45°	1913.7	1885.9	1776.3	1481.4	1228.6	1144.7	1079.3	965.9	896.0	863.8
47.5°	2176.4	2183.2	2027.4	1668.4	1366.3	1260.5	1176.2	1032.4	936.5	894.7
50°	2455.6	2460.3	2277.1	1875.7	1522.5	1391.3	1285.1	1106.7	992.6	938.5
52.5°	2673.4	2674.1	2503.8	2092.5	1685.2	1535.2	1402.6	1191.6	1057.7	996.7
55°	2809.7	2808.0	2662.8	2297.6	1872.2	1686.2	1532.8	1288.2	1137.2	1065.2
57.5°	2908.7	2903.6	2772.4	2474.0	2071.6	1864.7	1680.1	1397.8	1231.0	1146.8
60°	2946.4	2943.3	2846.7	2626.5	2281.2	2062.0	1850.0	1520.5	1337.6	1243.0
62.5°	2960.8	2966.6	2919.7	2774.1	2505.6	2280.5	2036.6	1667.1	1457.4	1351.9
65°	3011.5	3022.1	3012.5	2967.3	2759.0	2536.4	2284.3	1841.4	1588.3	1468.7
67.5°	3111.8	3122.4	3126.6	3198.5	3068.7	2855.3	2593.2	2058.6	1741.4	1590.0
70°	3109.4	3106.3	3179.0	3382.4	3456.4	3296.8	3009.8	2325.7	1924.0	1690.7
72.5°	2830.3	2805.6	2977.2	3380.4	3779.1	3757.8	3518.4	2670.3	2081.5	1703.0
75°	2123.3	2057.5	2360.7	3046.4	3832.8	4019.5	3841.7	2884.0	2044.2	1504.7
77.5°	908.0	841.9	1199.2	2255.2	3430.4	3757.5	3545.1	2516.2	1631.8	995.0
80°	237.7	237.4	362.4	1022.4	2332.9	2774.8	2434.3	1624.9	932.3	355.5
82.5°	98.3	95.9	133.2	397.7	1139.9	1557.1	1270.8	724.8	336.7	96.2
85°	36.7	36.3	64.7	137.4	402.1	642.2	464.8	185.3	83.9	46.9
87.5°	10.3	9.9	14.0	47.6	98.0	148.7	79.5	30.5	23.6	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939122
 CATALOG NUMBER: GALN-SB1C-827-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
738.5	0°	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5
739.9	2.5°	740.9	742.6	745.7	748.1	751.2	754.6	759.4	762.5	765.5	767.6
741.6	5°	744.0	747.7	755.6	763.5	772.7	781.3	791.2	798.4	804.2	806.0
747.7	7.5°	750.8	757.0	770.3	783.7	798.4	812.5	826.9	839.2	849.1	852.9
758.7	10°	762.8	771.0	789.9	808.7	828.2	849.8	868.3	886.1	900.2	906.0
771.7	12.5°	777.9	788.1	812.8	838.8	865.9	895.7	919.7	941.6	959.1	966.9
789.9	15°	797.4	810.8	842.3	877.2	916.9	958.4	988.9	1013.2	1032.7	1042.3
808.7	17.5°	818.6	836.4	876.2	928.9	985.8	1040.2	1075.9	1093.7	1113.9	1123.1
826.2	20°	839.2	861.1	918.0	994.7	1070.4	1128.3	1157.0	1161.8	1163.2	1164.2
842.6	22.5°	860.4	889.9	970.4	1077.6	1158.8	1198.8	1202.9	1182.4	1153.6	1140.3
858.7	25°	883.7	922.8	1038.9	1169.0	1234.8	1239.6	1208.1	1158.1	1103.6	1078.6
871.7	27.5°	906.3	960.8	1121.1	1256.4	1289.6	1247.5	1179.7	1108.7	1043.0	1016.6
881.0	30°	928.9	1004.3	1211.8	1332.8	1314.6	1227.9	1134.8	1055.7	989.6	961.8
889.2	32.5°	951.9	1055.0	1316.3	1387.9	1310.2	1186.5	1078.9	996.1	937.8	908.7
896.4	35°	977.9	1117.3	1415.3	1418.0	1280.4	1125.5	1005.3	924.8	874.1	850.8
904.9	37.5°	1011.8	1196.4	1502.7	1425.6	1228.3	1036.1	913.9	840.6	798.8	788.1
917.6	40°	1053.9	1291.7	1569.4	1413.6	1151.2	927.6	813.8	755.3	731.6	734.0
934.7	42.5°	1108.7	1398.2	1616.4	1382.8	1044.0	815.5	726.2	700.1	711.4	721.0
960.4	45°	1180.0	1508.8	1645.5	1330.4	922.8	720.7	674.4	680.6	689.2	690.2
1001.9	47.5°	1271.1	1620.8	1664.7	1251.2	799.1	653.9	641.5	642.9	641.2	634.0
1063.9	50°	1384.8	1729.7	1681.8	1146.4	694.0	612.1	595.6	590.9	567.2	543.9
1146.4	52.5°	1514.3	1829.8	1689.0	1016.3	612.1	577.2	550.4	520.3	476.1	468.9
1250.2	55°	1658.2	1922.2	1670.5	856.3	543.2	532.3	491.9	455.6	450.8	444.6
1386.9	57.5°	1830.1	2021.9	1632.8	677.9	472.7	479.9	440.5	444.6	436.0	426.4
1562.6	60°	2018.1	2125.0	1566.7	515.2	399.7	414.5	427.1	426.8	424.4	416.5
1747.9	62.5°	2187.4	2192.8	1436.5	394.6	335.7	363.8	398.4	398.0	396.0	391.5
1941.4	65°	2288.1	2182.6	1219.4	310.7	282.9	322.0	359.3	362.0	362.4	362.0
2087.0	67.5°	2270.2	2062.3	921.4	247.3	239.4	279.5	320.6	324.4	327.1	327.8
2105.5	70°	2068.8	1798.2	600.8	197.3	200.7	242.2	284.0	287.7	290.1	292.9
1827.0	72.5°	1612.6	1322.1	343.9	159.6	166.8	210.0	247.6	252.1	253.5	258.6
1271.4	75°	982.7	777.5	185.6	125.7	137.0	179.5	211.7	216.8	219.2	225.4
624.4	77.5°	467.2	336.7	105.8	98.0	110.3	146.6	178.8	184.6	178.1	181.5
172.3	80°	157.9	125.0	66.8	74.7	84.3	114.4	143.2	149.0	135.3	134.6
57.2	82.5°	55.1	50.7	42.5	49.7	54.5	81.9	108.2	115.8	100.7	100.4
25.7	85°	21.6	20.6	23.6	27.1	32.5	50.4	71.2	75.0	62.0	50.0
7.5	87.5°	4.5	4.8	5.8	6.2	9.9	17.5	25.7	31.5	25.0	21.2
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>
738.5
766.2
806.6
853.2
906.3
966.9
1041.6
1122.8
1167.0
1144.0
1082.4
1019.7
964.9
912.5
856.0
795.7
742.2
729.9
697.0
639.5
547.0
471.3
445.6
424.7
413.8
389.8
362.0
328.5
294.2
260.7
226.1
178.8
133.2
95.6
49.3
19.5
0.0

F REPORT)