

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: P939545

Luminaire Tested: **GALN-SB2A-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6441 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

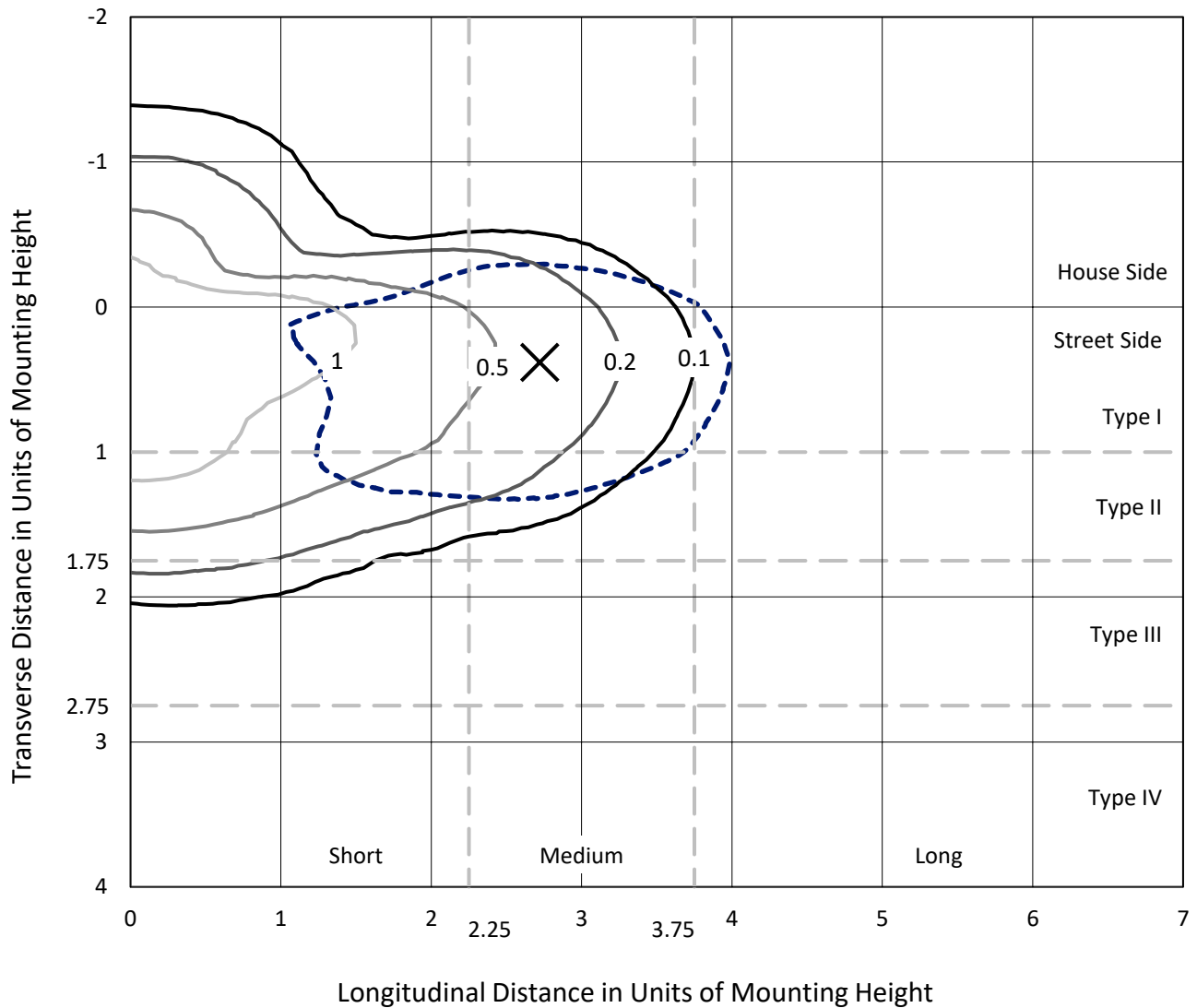
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939545
 CATALOG NUMBER: GALN-SB2A-940-U-T2

Iso-Footcandle Lines of Horizontal Illumination

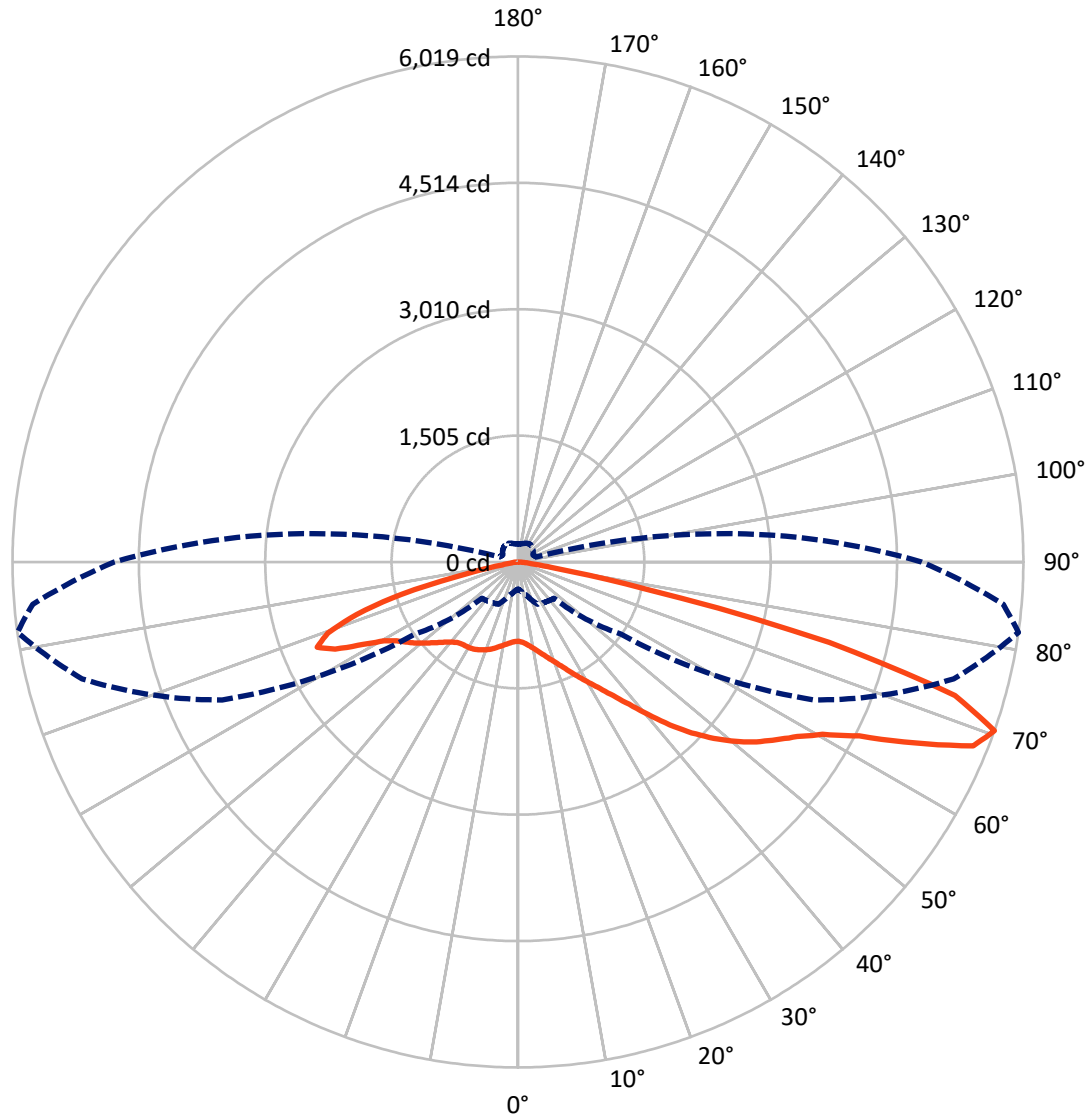
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P939545
CATALOG NUMBER: GALN-SB2A-940-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P939545

CATALOG NUMBER: GALN-SB2A-940-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1587.9	0.0	1587.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	4853.1	0.0	4853.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	6441.0	0.0	6441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	1.4
10°-20°	256.2	4.0
20°-30°	428.5	6.7
30°-40°	669.5	10.4
40°-50°	1066.3	16.6
50°-60°	1483.8	23.0
60°-70°	1552.1	24.1
70°-80°	811.2	12.6
80°-90°	84.2	1.3
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°	6441.0	100.0
0°-180°	6441.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939545

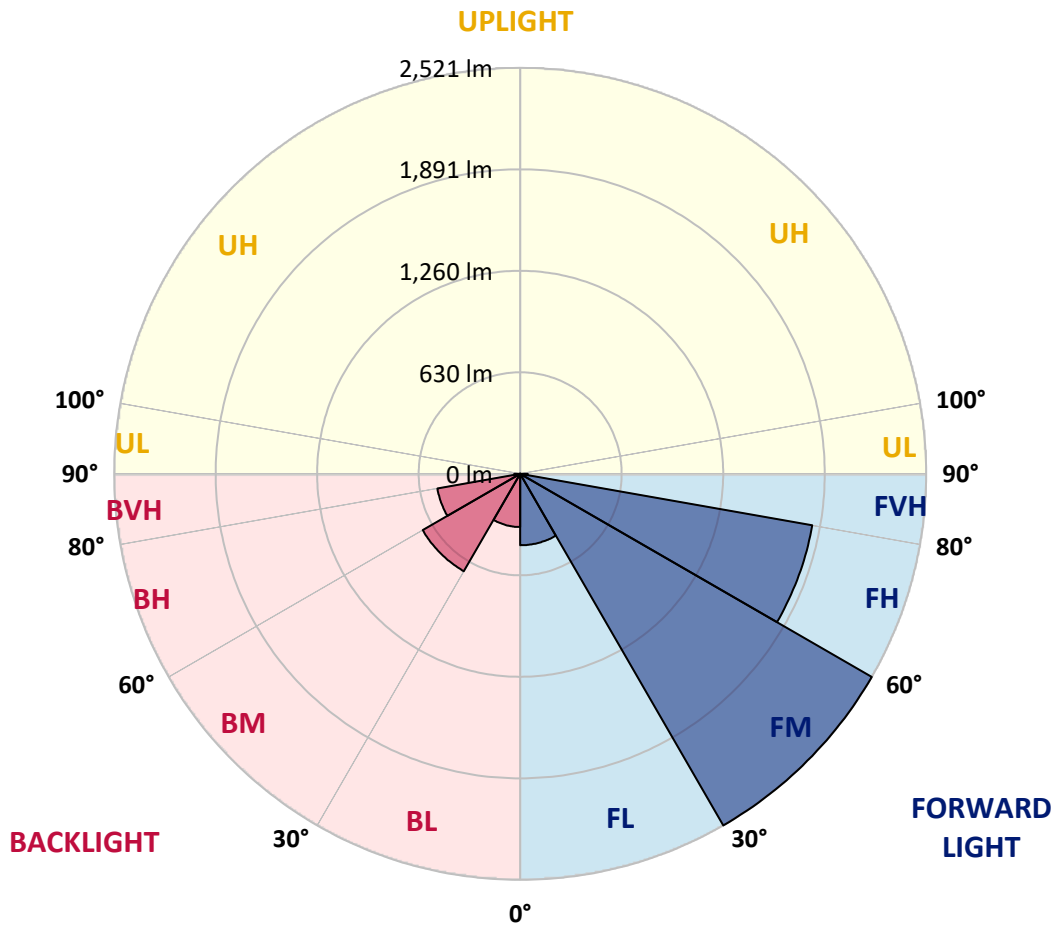
CATALOG NUMBER: GALN-SB2A-940-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.5	6.9			
FM (30°-60°)	2520.9	39.1			
FH (60°-80°)	1841.5	28.6			G2/5000
FVH (80°-90°)	47.2	0.7			G1/100
BL (0°-30°)	330.3	5.1	B1/500		
BM (30°-60°)	698.6	10.8	B1/1000		
BH (60°-80°)	521.9	8.1	B2/1000		G2/1000
BVH (80°-90°)	37.1	0.6			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 II Medium



REPORT NUMBER: P939545
 CATALOG NUMBER: GALN-SB2A-940-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	944.3	944.3	944.3	944.3	944.3	944.3	944.3	944.3	944.3	944.3
2.5°	966.9	972.4	970.6	968.9	968.9	966.5	966.2	962.8	960.1	955.6
5°	979.2	985.0	984.3	985.7	990.1	991.2	992.2	990.1	984.7	979.2
7.5°	968.3	974.7	976.8	985.0	998.7	1011.0	1020.2	1024.0	1018.8	1011.0
10°	931.3	938.5	945.7	965.2	989.4	1018.5	1043.1	1057.8	1056.8	1049.3
12.5°	856.5	864.0	879.4	917.3	961.8	1013.0	1058.8	1089.6	1100.2	1094.7
15°	796.7	803.2	814.8	853.8	911.5	989.4	1064.6	1124.4	1151.4	1148.4
17.5°	795.0	797.7	804.9	823.3	867.8	952.5	1058.5	1158.6	1210.2	1209.9
20°	825.1	826.1	830.2	833.9	859.2	924.5	1042.8	1187.0	1276.2	1276.2
22.5°	866.7	866.1	870.2	866.7	879.1	922.1	1032.9	1211.9	1349.7	1355.1
25°	929.3	925.9	924.8	917.0	919.4	944.3	1043.8	1240.3	1436.8	1448.1
27.5°	1012.7	1007.2	1003.5	985.3	979.2	990.1	1077.3	1274.5	1533.9	1553.4
30°	1121.4	1111.5	1106.0	1074.5	1052.3	1054.0	1127.9	1319.9	1635.4	1666.8
32.5°	1269.7	1254.3	1239.6	1188.0	1147.3	1134.0	1193.1	1382.8	1745.5	1795.7
35°	1435.8	1423.5	1407.8	1328.1	1265.6	1234.8	1281.3	1470.7	1874.3	1953.9
37.5°	1595.8	1585.2	1592.7	1485.4	1404.7	1359.9	1396.8	1588.6	2033.2	2150.8
40°	1761.2	1753.0	1754.0	1651.5	1557.5	1507.2	1537.0	1736.6	2215.4	2384.9
42.5°	1941.0	1934.8	1914.3	1823.4	1717.8	1671.0	1698.3	1907.5	2410.9	2651.5
45°	2142.3	2138.5	2119.4	2015.1	1894.1	1841.5	1878.4	2096.1	2607.4	2902.4
47.5°	2316.2	2319.3	2316.9	2229.1	2103.6	2026.4	2070.5	2293.0	2790.3	3138.2
50°	2400.0	2416.0	2439.6	2412.3	2334.3	2255.7	2264.3	2483.0	2964.6	3359.3
52.5°	2356.2	2386.6	2450.9	2494.6	2524.7	2508.3	2485.4	2671.7	3128.6	3558.9
55°	2193.2	2235.9	2342.5	2448.2	2601.6	2720.9	2751.0	2880.8	3288.6	3734.6
57.5°	1896.2	1965.6	2061.3	2274.9	2533.3	2823.8	3060.6	3171.0	3458.1	3922.2
60°	1386.9	1479.9	1598.8	1916.7	2294.0	2768.7	3324.1	3616.7	3699.1	4165.2
62.5°	887.6	945.0	1054.4	1353.8	1787.5	2486.8	3404.8	4173.8	4107.5	4563.8
65°	607.7	644.6	744.7	912.9	1155.5	1851.1	3188.8	4591.4	4756.2	5195.4
67.5°	441.6	469.6	555.0	702.4	752.9	1095.4	2474.5	4572.3	5386.8	5846.1
70°	322.0	341.8	413.6	555.0	579.3	609.4	1499.0	3886.7	5373.1	6019.0
72.5°	238.6	252.2	300.4	430.6	468.9	411.5	742.0	2824.8	4617.1	5444.2
75°	172.6	182.9	218.4	329.5	375.3	313.4	370.1	1650.8	3220.6	3829.6
77.5°	131.9	139.8	163.0	241.3	300.4	235.1	229.7	759.4	1527.1	1534.6
80°	106.0	111.1	123.7	169.9	230.4	176.0	149.7	306.6	482.6	408.4
82.5°	77.9	86.5	104.6	119.3	164.7	121.3	91.3	154.8	183.5	157.9
85°	44.4	50.2	63.2	85.4	105.3	74.2	52.3	68.7	85.4	70.1
87.5°	15.7	20.5	22.2	33.5	45.8	30.8	20.2	19.8	28.0	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939545
 CATALOG NUMBER: GALN-SB2A-940-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
944.3	0°	944.3	944.3	944.3	944.3	944.3	944.3	944.3	944.3	944.3	944.3
954.6	2.5°	951.2	949.5	942.6	933.4	923.8	914.6	911.5	905.0	900.6	898.2
976.8	5°	970.3	964.8	948.8	928.3	906.7	883.5	867.1	852.1	841.1	830.9
1007.2	7.5°	997.6	988.1	960.4	924.5	886.2	847.6	818.9	797.0	782.3	772.8
1042.8	10°	1029.4	1014.7	972.4	918.7	859.6	804.2	770.4	751.6	742.3	737.2
1083.4	12.5°	1066.0	1045.2	984.7	905.4	818.9	755.7	732.4	727.0	727.3	727.6
1134.7	15°	1111.1	1082.1	994.6	876.3	765.9	718.4	714.3	723.2	732.4	736.9
1192.8	17.5°	1162.0	1121.0	996.3	828.5	714.0	694.5	707.5	726.6	740.6	746.8
1257.7	20°	1216.7	1160.7	984.0	760.8	671.3	675.0	698.3	722.9	738.2	746.1
1331.9	22.5°	1279.3	1203.1	954.6	689.7	636.4	653.8	681.2	705.1	721.2	729.0
1419.1	25°	1350.7	1250.6	908.4	629.9	606.3	629.9	657.2	677.1	690.0	697.2
1516.5	27.5°	1430.0	1300.1	846.9	582.4	580.0	605.3	627.8	643.2	650.1	655.5
1620.0	30°	1509.6	1345.2	772.4	546.5	557.1	581.0	597.1	603.9	606.0	607.0
1735.5	32.5°	1595.8	1384.2	694.2	516.8	535.2	557.4	567.0	570.1	560.5	554.0
1875.7	35°	1700.0	1425.9	617.6	493.2	513.7	532.8	535.9	533.2	521.9	508.6
2051.3	37.5°	1828.9	1477.8	556.4	476.4	493.5	506.2	502.4	501.7	502.8	487.0
2262.6	40°	1986.8	1545.5	511.6	463.5	477.1	479.9	469.3	475.1	480.2	456.3
2494.3	42.5°	2162.1	1627.2	483.3	454.6	463.5	457.0	440.6	447.0	446.4	414.9
2727.0	45°	2340.8	1716.1	473.4	448.1	450.8	437.8	419.7	421.4	407.1	378.7
2950.2	47.5°	2518.6	1811.4	479.5	442.6	435.1	420.4	406.4	398.9	377.7	356.5
3164.2	50°	2692.9	1911.6	502.1	431.7	413.6	405.0	394.8	381.4	358.9	340.8
3366.5	52.5°	2854.5	2012.4	527.4	413.6	386.6	391.7	385.2	369.8	347.6	329.1
3557.9	55°	3007.6	2113.2	537.3	388.6	361.3	380.1	376.3	347.9	321.3	306.2
3758.2	57.5°	3174.4	2234.5	526.3	356.8	340.8	366.7	352.4	320.9	305.5	294.3
4019.0	60°	3405.5	2424.9	502.8	317.5	321.3	346.9	322.3	309.3	292.6	279.9
4410.0	62.5°	3789.3	2780.0	464.8	278.5	298.4	317.5	307.9	295.0	277.9	265.6
5078.5	65°	4356.6	3273.5	393.4	248.1	272.7	288.8	292.6	279.6	261.8	248.8
5664.3	67.5°	4835.1	3583.2	297.7	222.8	246.4	265.6	276.2	263.5	244.7	232.1
5801.3	70°	4808.8	3358.3	227.3	197.9	223.2	242.7	256.3	246.4	226.3	214.3
5269.5	72.5°	4271.2	2809.4	183.9	172.6	199.6	218.7	235.1	227.6	207.1	195.5
3860.4	75°	3137.9	1994.3	147.0	147.0	170.2	193.8	211.9	207.1	188.3	180.1
1620.7	77.5°	1322.7	836.7	115.2	122.0	141.5	166.4	189.0	190.7	174.3	184.6
428.6	80°	351.7	230.7	87.8	96.0	111.1	137.4	164.4	163.7	145.9	136.4
159.3	82.5°	134.0	90.9	62.5	67.7	80.3	105.3	130.2	134.3	116.5	100.8
62.5	85°	51.6	39.0	38.6	40.7	46.8	69.7	98.4	101.8	87.8	74.5
17.4	87.5°	13.3	11.6	14.4	13.7	21.5	37.3	56.4	58.4	53.7	31.1
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>
944.3
900.9
835.0
774.8
738.6
728.3
736.5
748.2
748.2
731.1
699.3
657.6
609.4
556.1
509.2
488.1
457.0
414.6
379.7
356.5
339.4
329.5
304.9
293.2
279.2
265.6
249.5
232.4
215.3
195.5
177.7
167.5
126.8
100.8
76.9
44.4
0.0

F REPORT)