

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: P945048

Luminaire Tested: **GALN-SB1A-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1A-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4195 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

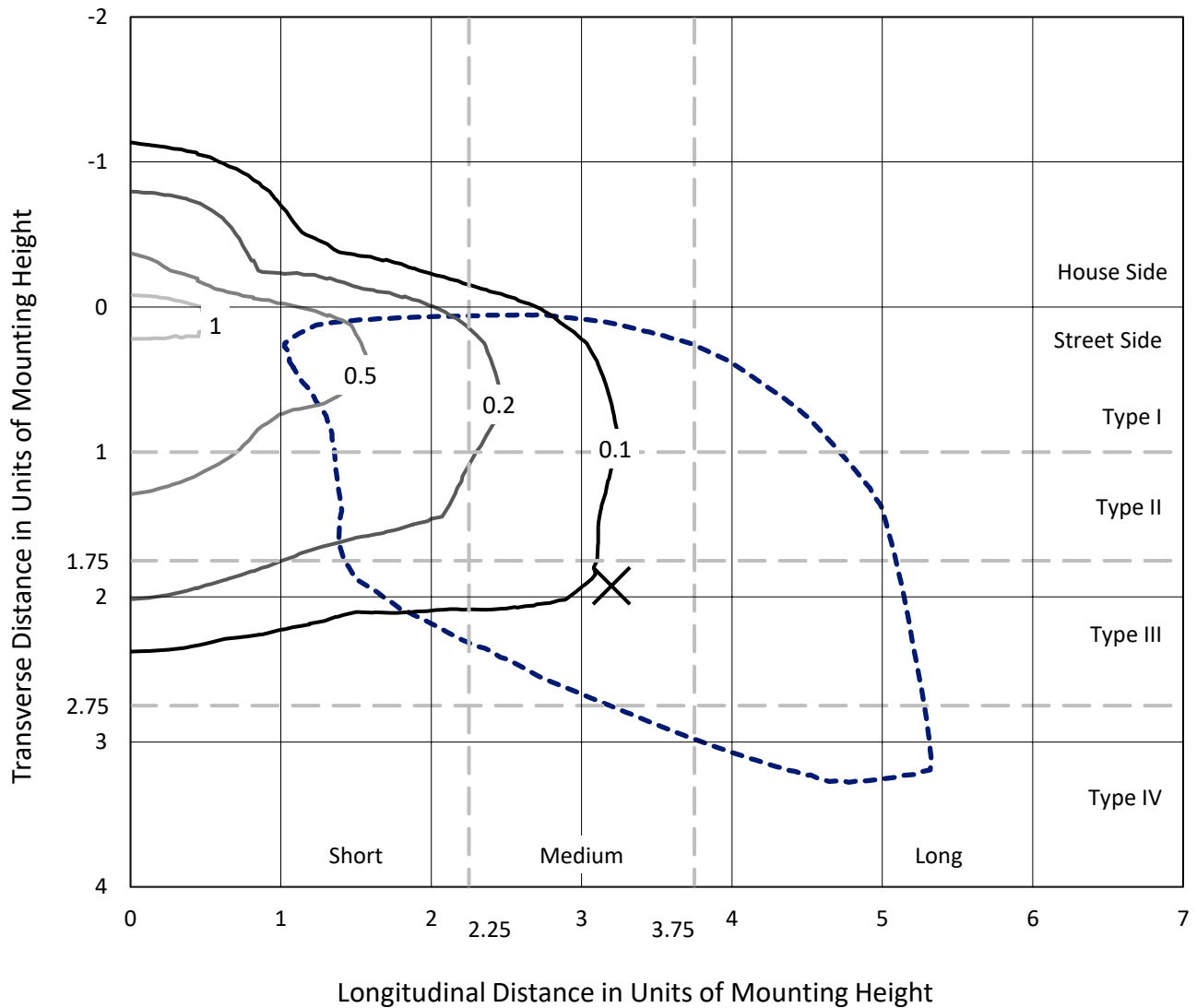
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945048
 CATALOG NUMBER: GALN-SB1A-840-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

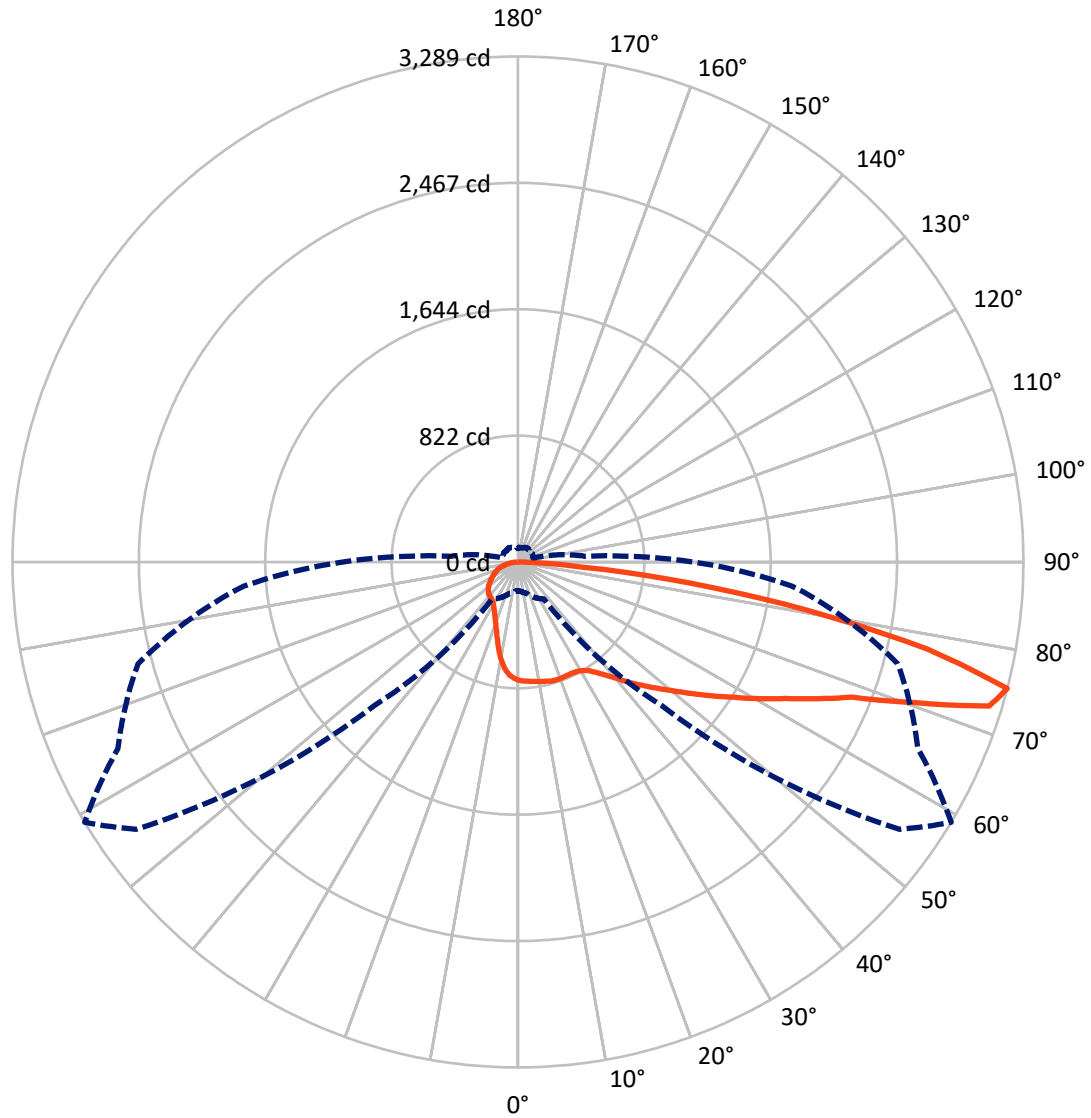
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P945048
CATALOG NUMBER: GALN-SB1A-840-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P945048
 CATALOG NUMBER: GALN-SB1A-840-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	786.8	0.0	786.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3408.2	0.0	3408.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	4195.0	0.0	4195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	1.6
10°-20°	176.5	4.2
20°-30°	268.1	6.4
30°-40°	398.4	9.5
40°-50°	592.6	14.1
50°-60°	804.3	19.2
60°-70°	982.0	23.4
70°-80°	770.6	18.4
80°-90°	133.5	3.2
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°	4195.0	100.0
0°-180°	4195.0	100.0

Coefficient of Utilization



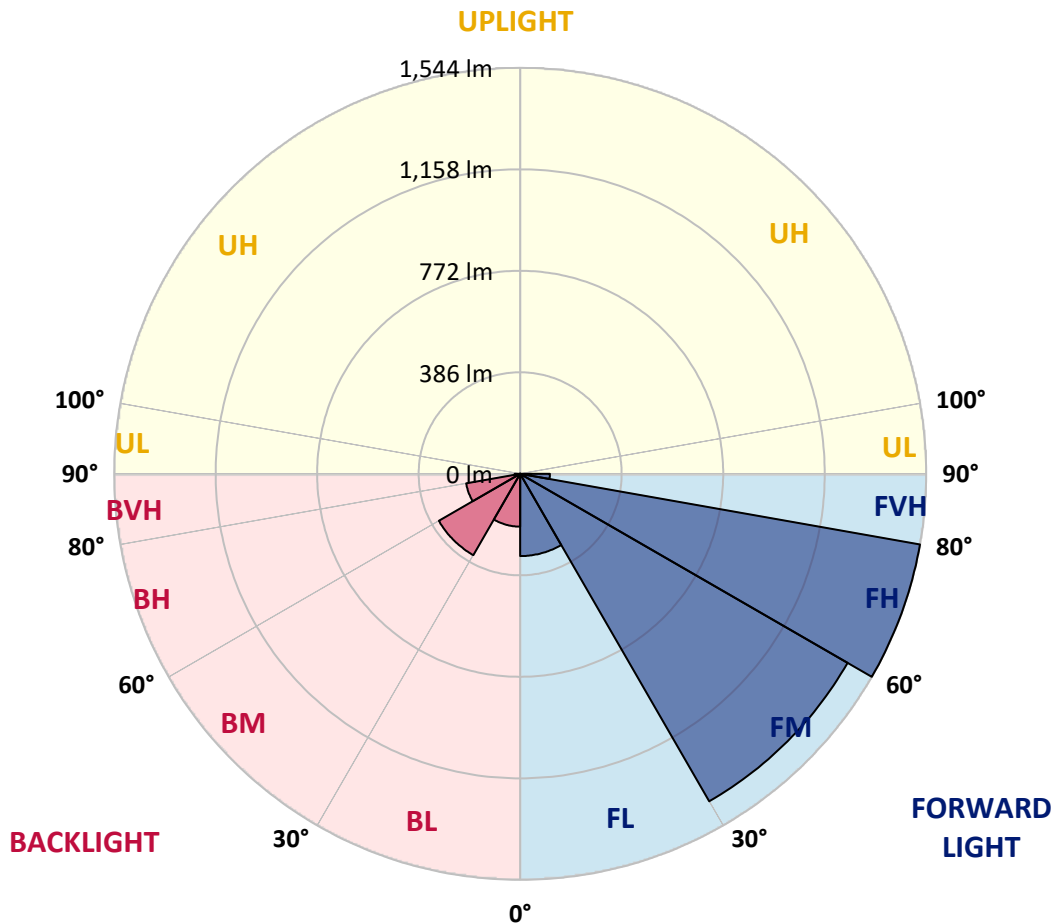
REPORT NUMBER: P945048
 CATALOG NUMBER: GALN-SB1A-840-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.8	7.5			
FM (30°-60°)	1438.2	34.3			
FH (60°-80°)	1544.1	36.8			G1/1800
FVH (80°-90°)	113.1	2.7			G2/225
BL (0°-30°)	200.8	4.8	B1/500		
BM (30°-60°)	357.1	8.5	B1/1000		
BH (60°-80°)	208.4	5.0	B1/500		G1/500
BVH (80°-90°)	20.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



REPORT NUMBER: P945048
 CATALOG NUMBER: GALN-SB1A-840-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	770.0	770.0	770.0	770.0	770.0	770.0	770.0	770.0	770.0	770.0
2.5°	776.5	773.8	776.5	775.4	774.9	774.0	774.3	775.9	774.9	776.1
5°	771.3	769.8	772.5	771.8	774.7	775.2	778.1	779.9	781.0	781.3
7.5°	762.8	761.2	765.0	768.2	774.5	776.3	782.4	785.3	786.9	789.6
10°	731.4	730.7	740.2	752.2	767.0	776.3	785.6	790.5	793.0	800.2
12.5°	675.9	676.8	689.2	712.2	742.0	771.8	789.2	796.4	800.2	809.2
15°	622.8	622.6	636.2	660.8	702.5	751.9	791.0	803.4	809.9	823.2
17.5°	592.2	591.3	600.7	619.5	658.3	721.5	786.5	807.2	821.2	837.9
20°	586.5	584.7	589.7	598.9	626.5	688.1	774.7	807.2	830.2	851.9
22.5°	607.0	604.1	602.1	601.0	613.1	660.5	761.4	804.5	843.6	872.0
25°	648.3	643.8	633.5	623.3	619.7	648.1	749.7	803.8	863.4	899.1
27.5°	715.1	709.5	688.5	664.1	642.3	654.4	744.5	807.9	885.3	927.7
30°	798.0	791.9	765.5	728.0	688.7	677.9	751.0	819.9	913.3	965.9
32.5°	872.2	865.4	842.9	804.7	751.7	718.5	771.8	842.6	957.3	1018.9
35°	938.1	930.2	909.9	874.7	828.9	775.6	809.2	883.0	1019.8	1105.1
37.5°	1002.6	993.4	971.3	934.0	902.0	851.7	860.9	934.9	1102.8	1209.8
40°	1074.9	1061.5	1034.7	997.9	966.8	940.8	928.9	998.6	1187.2	1326.7
42.5°	1144.8	1132.2	1100.1	1068.8	1029.7	1022.3	1007.6	1073.1	1279.5	1455.1
45°	1220.2	1205.1	1166.3	1126.5	1101.9	1076.4	1083.9	1147.5	1370.0	1586.0
47.5°	1290.8	1273.9	1228.1	1183.9	1170.3	1122.0	1153.8	1229.4	1464.1	1718.7
50°	1329.0	1312.3	1274.1	1234.2	1223.6	1178.2	1229.7	1319.5	1562.8	1850.9
52.5°	1360.8	1342.7	1292.9	1270.7	1267.6	1239.4	1323.1	1422.4	1661.4	1967.8
55°	1394.6	1374.6	1310.9	1291.1	1305.5	1308.0	1433.9	1539.1	1765.6	2081.8
57.5°	1433.7	1408.2	1328.3	1308.2	1342.5	1388.3	1561.2	1660.0	1868.1	2187.4
60°	1470.5	1444.7	1361.7	1335.5	1382.4	1481.5	1707.2	1806.5	1984.1	2281.5
62.5°	1477.7	1456.5	1388.3	1388.1	1436.6	1590.3	1880.0	1954.3	2085.4	2374.5
65°	1352.7	1339.3	1299.0	1386.1	1514.2	1746.9	2072.5	2143.4	2214.3	2455.7
67.5°	1029.5	1031.3	1028.4	1196.5	1451.5	1971.9	2351.2	2345.8	2373.4	2546.9
70°	470.7	481.4	550.4	825.9	1162.9	1997.8	2812.1	2741.9	2573.1	2664.9
72.5°	254.3	262.5	290.7	400.1	699.1	1776.2	3156.4	3206.3	2838.7	2744.4
75°	186.6	191.1	210.8	254.3	293.6	1320.2	3033.0	3288.9	2871.9	2559.1
77.5°	139.7	141.7	157.7	201.5	150.3	696.0	2423.5	2723.8	2458.4	2102.6
80°	101.3	103.6	115.5	151.2	105.4	254.6	1664.1	1911.9	1683.7	1340.2
82.5°	70.0	70.9	76.1	102.9	73.6	98.8	944.2	1121.1	939.9	470.3
85°	42.2	43.3	45.6	60.0	41.7	46.9	407.6	421.5	281.0	112.4
87.5°	17.4	18.5	20.3	25.3	16.5	13.1	67.2	84.4	52.6	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945048
 CATALOG NUMBER: GALN-SB1A-840-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
770.0	0°	770.0	770.0	770.0	770.0	770.0	770.0	770.0	770.0	770.0	770.0
772.2	2.5°	771.1	769.5	765.2	759.4	754.0	747.2	744.3	741.8	739.5	735.2
778.3	5°	775.9	771.6	760.1	745.2	728.2	709.7	691.7	679.3	668.7	660.8
785.3	7.5°	783.1	774.9	754.0	723.5	684.7	645.0	609.1	583.6	564.4	557.4
795.3	10°	790.5	780.8	744.3	690.5	623.5	562.4	514.8	488.6	473.2	468.3
807.0	12.5°	799.3	785.1	729.1	644.7	555.1	488.1	446.6	431.3	423.4	420.6
821.4	15°	812.2	788.7	706.3	587.4	489.9	434.0	407.1	396.5	392.4	392.2
836.3	17.5°	821.9	789.4	670.9	526.0	439.8	401.2	379.1	375.1	377.8	381.8
851.0	20°	832.7	783.3	624.4	470.1	404.6	372.6	363.3	366.0	372.6	378.4
870.4	22.5°	840.4	772.2	568.2	426.5	374.2	356.1	355.7	361.3	364.9	367.8
893.2	25°	847.2	753.5	508.7	390.0	349.1	346.2	351.1	349.3	346.9	349.3
916.0	27.5°	852.1	723.9	455.4	357.9	331.5	339.4	336.5	332.4	332.2	333.5
942.8	30°	850.5	684.5	411.6	327.4	319.1	326.8	319.8	319.1	318.4	319.1
983.2	32.5°	850.5	639.5	378.0	306.5	311.2	308.3	307.6	306.0	303.3	303.1
1038.1	35°	855.3	594.6	349.1	295.2	304.7	297.7	298.1	294.3	288.6	285.9
1110.7	37.5°	865.0	558.5	320.5	289.8	293.1	292.9	291.1	284.6	274.6	266.1
1201.5	40°	888.5	547.9	300.8	287.3	287.7	290.4	285.7	273.1	250.5	236.5
1293.5	42.5°	925.2	565.8	296.5	281.2	284.1	286.8	277.6	248.2	232.2	223.9
1390.1	45°	972.0	596.9	305.8	272.4	275.5	280.3	252.7	238.8	231.5	231.8
1485.8	47.5°	1031.1	629.6	322.9	264.7	263.1	265.8	236.3	227.7	217.8	220.3
1577.7	50°	1099.5	662.8	339.2	254.3	249.4	240.6	225.7	217.5	204.9	199.0
1666.3	52.5°	1173.5	694.8	345.7	241.7	234.5	224.3	218.4	208.5	193.2	183.5
1750.1	55°	1243.7	723.9	338.5	226.6	219.6	211.7	210.8	204.7	188.2	174.7
1824.5	57.5°	1310.0	748.3	320.5	211.2	204.5	199.7	205.8	202.9	182.1	164.7
1894.9	60°	1366.2	765.0	294.3	195.7	190.9	188.4	197.7	196.8	173.5	154.1
1958.1	62.5°	1410.9	771.6	265.4	180.8	179.6	175.1	186.4	186.4	162.7	143.8
2013.6	65°	1445.9	765.2	236.0	166.1	168.3	161.6	172.6	171.3	151.2	134.5
2077.5	67.5°	1476.8	744.5	203.6	151.6	156.8	148.3	158.2	155.0	138.6	125.2
2132.8	70°	1490.5	696.2	166.5	137.2	143.5	135.2	143.8	137.9	124.3	115.3
2072.1	72.5°	1380.0	578.6	131.1	122.1	127.5	120.7	128.2	121.4	109.0	104.9
1789.3	75°	1141.7	434.2	100.9	105.6	109.7	104.5	109.4	104.5	93.2	96.1
1321.7	77.5°	829.1	293.1	77.2	88.2	90.0	87.3	91.6	86.0	75.8	75.1
658.7	80°	412.3	171.7	60.5	69.7	69.1	67.2	72.2	69.5	60.9	64.5
177.8	82.5°	119.4	73.6	44.0	49.0	47.6	48.1	51.7	53.0	79.4	78.8
55.3	85°	37.5	28.9	26.4	27.3	26.0	26.6	30.5	60.5	56.0	32.7
17.2	87.5°	9.7	9.9	6.5	7.0	7.2	8.6	9.7	36.8	17.6	11.5
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>
770.0
733.2
654.2
545.2
460.6
421.3
393.1
383.4
380.5
369.4
350.9
335.8
321.6
306.0
288.6
269.0
238.3
223.9
232.9
226.6
200.6
183.2
174.7
163.8
153.5
143.1
133.6
124.3
113.5
101.6
87.8
71.8
63.9
80.6
35.4
12.2
0.0

F REPORT)