

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: P938955

Luminaire Tested: **GALN-SB1B-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938955
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-SB1B-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

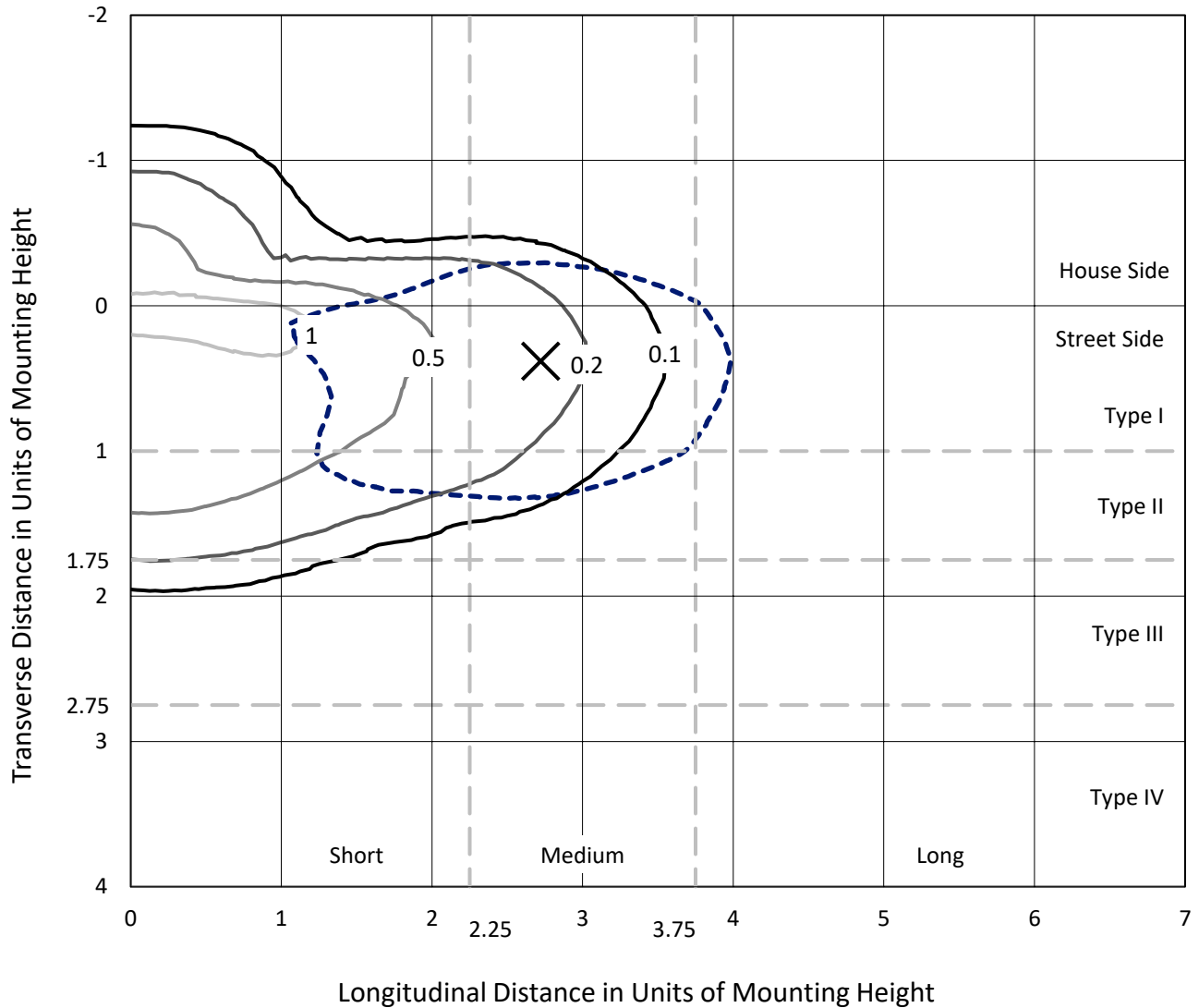
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938955
 CATALOG NUMBER: GALN-SB1B-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

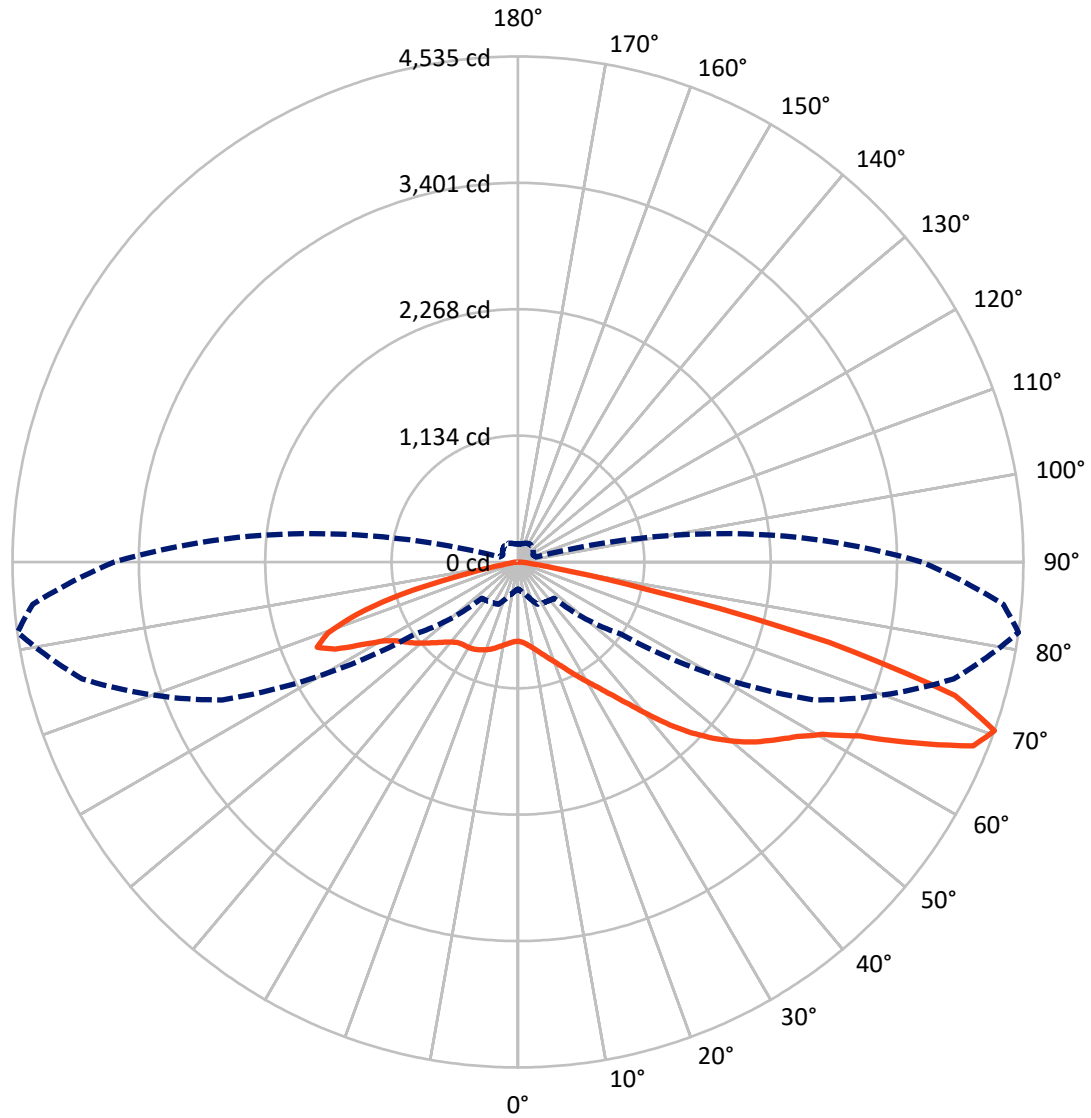
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P938955
CATALOG NUMBER: GALN-SB1B-827-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P938955

CATALOG NUMBER: GALN-SB1B-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1196.4	0.0	1196.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3656.6	0.0	3656.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	4853.0	0.0	4853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.4
10°-20°	193.0	4.0
20°-30°	322.9	6.7
30°-40°	504.4	10.4
40°-50°	803.4	16.6
50°-60°	1118.0	23.0
60°-70°	1169.5	24.1
70°-80°	611.2	12.6
80°-90°	63.5	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°	4853.0	100.0
0°-180°	4853.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938955

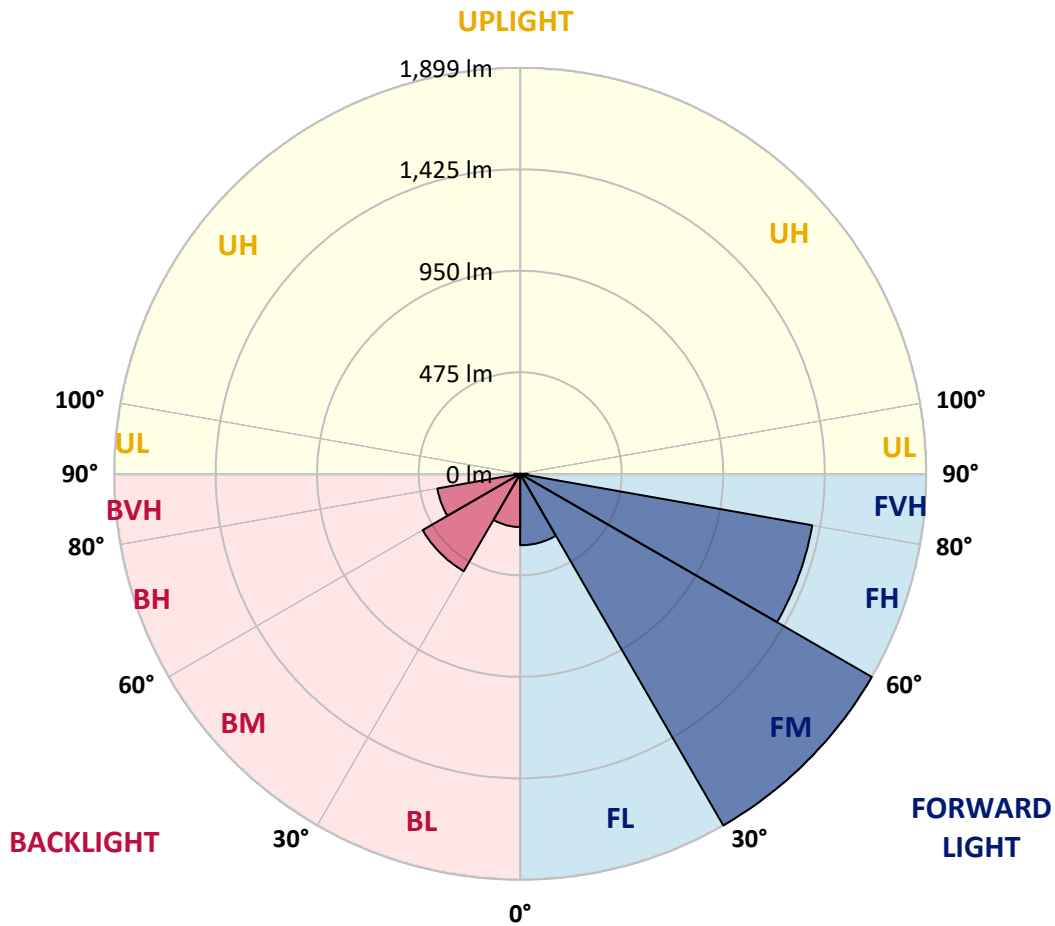
CATALOG NUMBER: GALN-SB1B-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.2	6.9			
FM (30°-60°)	1899.4	39.1			
FH (60°-80°)	1387.5	28.6			G1/1800
FVH (80°-90°)	35.5	0.7			G1/100
BL (0°-30°)	248.9	5.1	B1/500		
BM (30°-60°)	526.4	10.8	B1/1000		
BH (60°-80°)	393.2	8.1	B1/500		G1/500
BVH (80°-90°)	27.9	0.6			G1/100
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 Medium



REPORT NUMBER: P938955

CATALOG NUMBER: GALN-SB1B-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5
2.5°	728.5	732.6	731.3	730.1	730.1	728.2	728.0	725.4	723.4	720.0
5°	737.8	742.2	741.6	742.7	746.0	746.8	747.6	746.0	741.9	737.8
7.5°	729.5	734.4	736.0	742.2	752.5	761.7	768.7	771.5	767.6	761.7
10°	701.7	707.1	712.5	727.2	745.5	767.4	785.9	797.0	796.2	790.6
12.5°	645.3	651.0	662.6	691.2	724.6	763.3	797.8	821.0	828.9	824.8
15°	600.3	605.2	613.9	643.3	686.8	745.5	802.2	847.2	867.6	865.2
17.5°	599.0	601.0	606.4	620.4	653.8	717.7	797.5	873.0	911.9	911.6
20°	621.6	622.4	625.5	628.3	647.4	696.6	785.7	894.3	961.6	961.6
22.5°	653.1	652.5	655.6	653.1	662.3	694.8	778.2	913.1	1016.9	1021.0
25°	700.2	697.6	696.8	690.9	692.7	711.5	786.4	934.5	1082.6	1091.1
27.5°	763.0	758.9	756.1	742.4	737.8	746.0	811.7	960.3	1155.7	1170.4
30°	844.9	837.4	833.3	809.6	792.9	794.2	849.8	994.5	1232.2	1255.9
32.5°	956.7	945.1	934.0	895.1	864.5	854.4	899.0	1041.9	1315.1	1353.0
35°	1081.8	1072.5	1060.7	1000.7	953.6	930.4	965.4	1108.1	1412.2	1472.2
37.5°	1202.3	1194.3	1200.0	1119.2	1058.4	1024.6	1052.5	1196.9	1531.9	1620.5
40°	1327.0	1320.8	1321.6	1244.3	1173.5	1135.6	1158.0	1308.4	1669.2	1796.9
42.5°	1462.4	1457.8	1442.3	1373.8	1294.3	1259.0	1279.6	1437.2	1816.5	1997.8
45°	1614.1	1611.3	1596.8	1518.3	1427.1	1387.5	1415.3	1579.3	1964.6	2186.8
47.5°	1745.2	1747.5	1745.7	1679.5	1585.0	1526.8	1560.0	1727.7	2102.3	2364.5
50°	1808.3	1820.4	1838.1	1817.5	1758.8	1699.6	1706.0	1870.8	2233.7	2531.1
52.5°	1775.3	1798.2	1846.6	1879.6	1902.3	1889.9	1872.6	2013.0	2357.3	2681.5
55°	1652.5	1684.7	1765.0	1844.6	1960.2	2050.1	2072.7	2170.6	2477.8	2813.9
57.5°	1428.7	1481.0	1553.1	1714.0	1908.7	2127.6	2306.0	2389.2	2605.5	2955.2
60°	1045.0	1115.0	1204.6	1444.1	1728.4	2086.1	2504.6	2725.0	2787.1	3138.3
62.5°	668.8	712.0	794.4	1020.0	1346.8	1873.7	2565.4	3144.8	3094.8	3438.6
65°	457.9	485.7	561.1	687.8	870.7	1394.7	2402.6	3459.4	3583.6	3914.5
67.5°	332.7	353.8	418.2	529.2	567.3	825.3	1864.4	3445.0	4058.7	4404.8
70°	242.6	257.5	311.6	418.2	436.5	459.1	1129.5	2928.4	4048.4	4535.1
72.5°	179.7	190.0	226.4	324.5	353.3	310.0	559.1	2128.4	3478.8	4101.9
75°	130.0	137.8	164.6	248.2	282.8	236.1	278.9	1243.8	2426.6	2885.4
77.5°	99.4	105.3	122.8	181.8	226.4	177.2	173.0	572.2	1150.6	1156.2
80°	79.8	83.7	93.2	128.0	173.6	132.6	112.8	231.0	363.6	307.7
82.5°	58.7	65.2	78.8	89.9	124.1	91.4	68.8	116.7	138.3	119.0
85°	33.5	37.9	47.6	64.4	79.3	55.9	39.4	51.8	64.4	52.8
87.5°	11.8	15.5	16.7	25.2	34.5	23.2	15.2	14.9	21.1	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938955
 CATALOG NUMBER: GALN-SB1B-827-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
711.5	0°	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5
719.2	2.5°	716.7	715.4	710.2	703.3	696.1	689.1	686.8	681.9	678.5	676.7
736.0	5°	731.1	727.0	714.9	699.4	683.2	665.7	653.3	642.0	633.7	626.0
758.9	7.5°	751.7	744.5	723.6	696.6	667.7	638.6	617.0	600.5	589.4	582.2
785.7	10°	775.6	764.6	732.6	692.2	647.6	605.9	580.4	566.3	559.3	555.5
816.3	12.5°	803.2	787.5	741.9	682.2	617.0	569.4	551.9	547.7	548.0	548.2
854.9	15°	837.2	815.3	749.4	660.3	577.1	541.3	538.2	544.9	551.9	555.2
898.7	17.5°	875.5	844.6	750.7	624.2	537.9	523.3	533.1	547.5	558.0	562.7
947.7	20°	916.7	874.5	741.4	573.2	505.8	508.6	526.1	544.6	556.2	562.2
1003.5	22.5°	963.9	906.4	719.2	519.7	479.5	492.6	513.2	531.3	543.4	549.3
1069.2	25°	1017.7	942.2	684.5	474.6	456.8	474.6	495.2	510.1	519.9	525.3
1142.6	27.5°	1077.4	979.6	638.1	438.8	437.0	456.1	473.1	484.6	489.8	493.9
1220.6	30°	1137.4	1013.6	582.0	411.8	419.7	437.8	449.9	455.0	456.6	457.3
1307.7	32.5°	1202.3	1042.9	523.0	389.4	403.3	420.0	427.2	429.5	422.3	417.4
1413.2	35°	1280.9	1074.3	465.3	371.6	387.0	401.5	403.8	401.7	393.2	383.2
1545.6	37.5°	1378.0	1113.5	419.2	359.0	371.8	381.4	378.5	378.0	378.8	367.0
1704.7	40°	1496.9	1164.5	385.5	349.2	359.5	361.5	353.6	357.9	361.8	343.8
1879.3	42.5°	1629.0	1226.0	364.1	342.5	349.2	344.3	331.9	336.8	336.3	312.6
2054.7	45°	1763.7	1293.0	356.7	337.6	339.7	329.9	316.2	317.5	306.7	285.3
2222.9	47.5°	1897.6	1364.8	361.3	333.5	327.8	316.7	306.2	300.5	284.6	268.6
2384.1	50°	2029.0	1440.3	378.3	325.2	311.6	305.2	297.4	287.4	270.4	256.7
2536.5	52.5°	2150.8	1516.2	397.3	311.6	291.2	295.1	290.2	278.6	261.9	248.0
2680.7	55°	2266.1	1592.2	404.8	292.8	272.2	286.4	283.5	262.1	242.1	230.7
2831.6	57.5°	2391.8	1683.6	396.6	268.8	256.7	276.3	265.5	241.8	230.2	221.7
3028.1	60°	2565.9	1827.1	378.8	239.2	242.1	261.4	242.8	233.0	220.4	210.9
3322.7	62.5°	2855.1	2094.6	350.2	209.9	224.8	239.2	232.0	222.2	209.4	200.1
3826.4	65°	3282.5	2466.5	296.4	187.0	205.5	217.6	220.4	210.6	197.3	187.5
4267.8	67.5°	3643.0	2699.8	224.3	167.9	185.7	200.1	208.1	198.5	184.4	174.9
4371.0	70°	3623.2	2530.3	171.2	149.1	168.2	182.8	193.1	185.7	170.5	161.5
3970.3	72.5°	3218.1	2116.8	138.5	130.0	150.4	164.8	177.2	171.5	156.1	147.3
2908.6	75°	2364.2	1502.6	110.7	110.7	128.2	146.0	159.7	156.1	141.9	135.7
1221.1	77.5°	996.6	630.4	86.8	91.9	106.6	125.4	142.4	143.7	131.3	139.1
322.9	80°	265.0	173.8	66.2	72.4	83.7	103.5	123.9	123.3	110.0	102.7
120.0	82.5°	100.9	68.5	47.1	51.0	60.5	79.3	98.1	101.2	87.8	76.0
47.1	85°	38.9	29.4	29.1	30.6	35.3	52.5	74.2	76.7	66.2	56.1
13.1	87.5°	10.0	8.8	10.8	10.3	16.2	28.1	42.5	44.0	40.4	23.4
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>
711.5
678.8
629.1
583.8
556.5
548.8
554.9
563.7
563.7
550.8
526.9
495.5
459.1
419.0
383.7
367.7
344.3
312.4
286.1
268.6
255.7
248.2
229.7
220.9
210.4
200.1
188.0
175.1
162.2
147.3
133.9
126.2
95.5
76.0
57.9
33.5
0.0

F REPORT)