

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: P945711

Luminaire Tested: **GALN-SB1C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6502 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

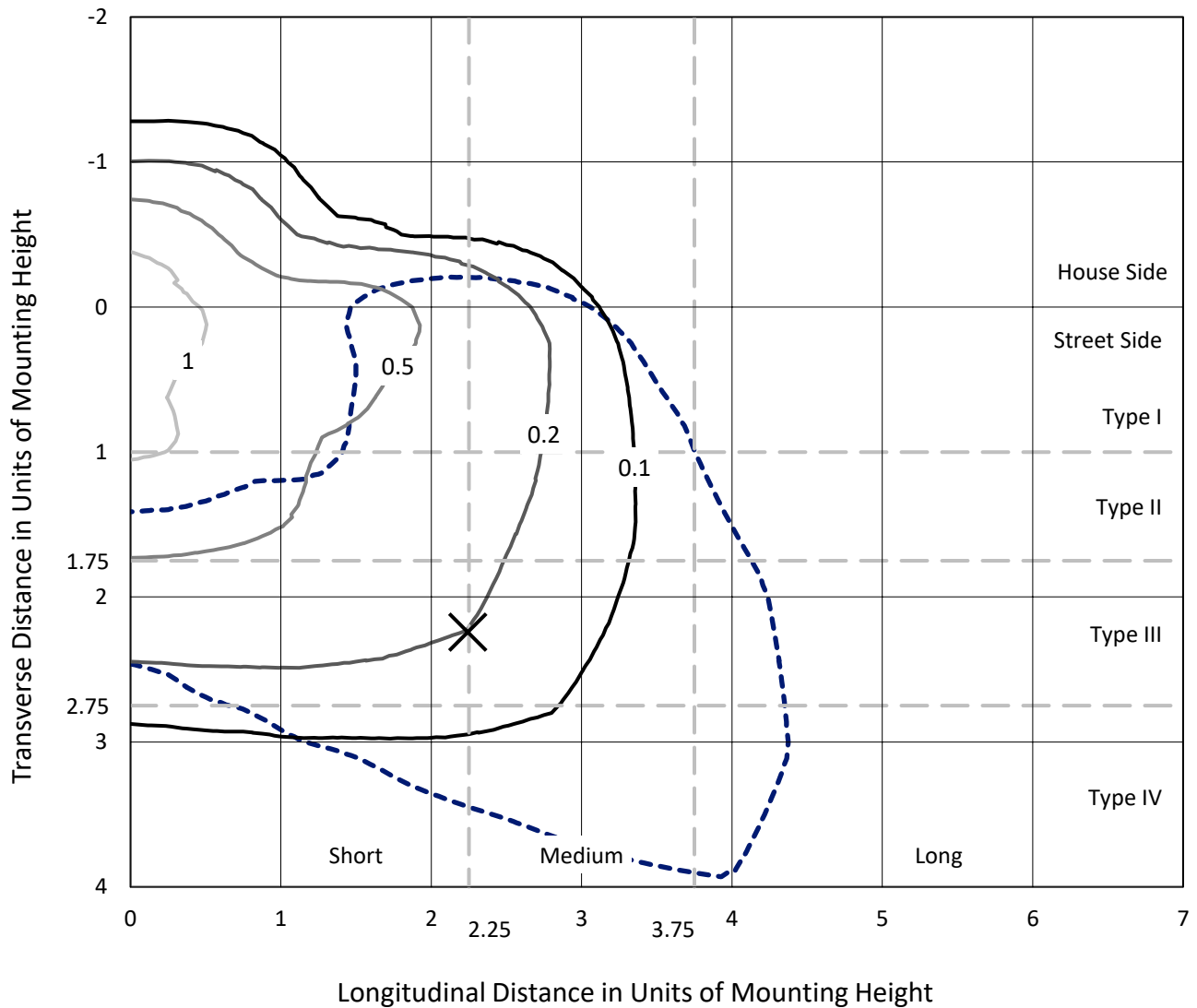
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945711
 CATALOG NUMBER: GALN-SB1C-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

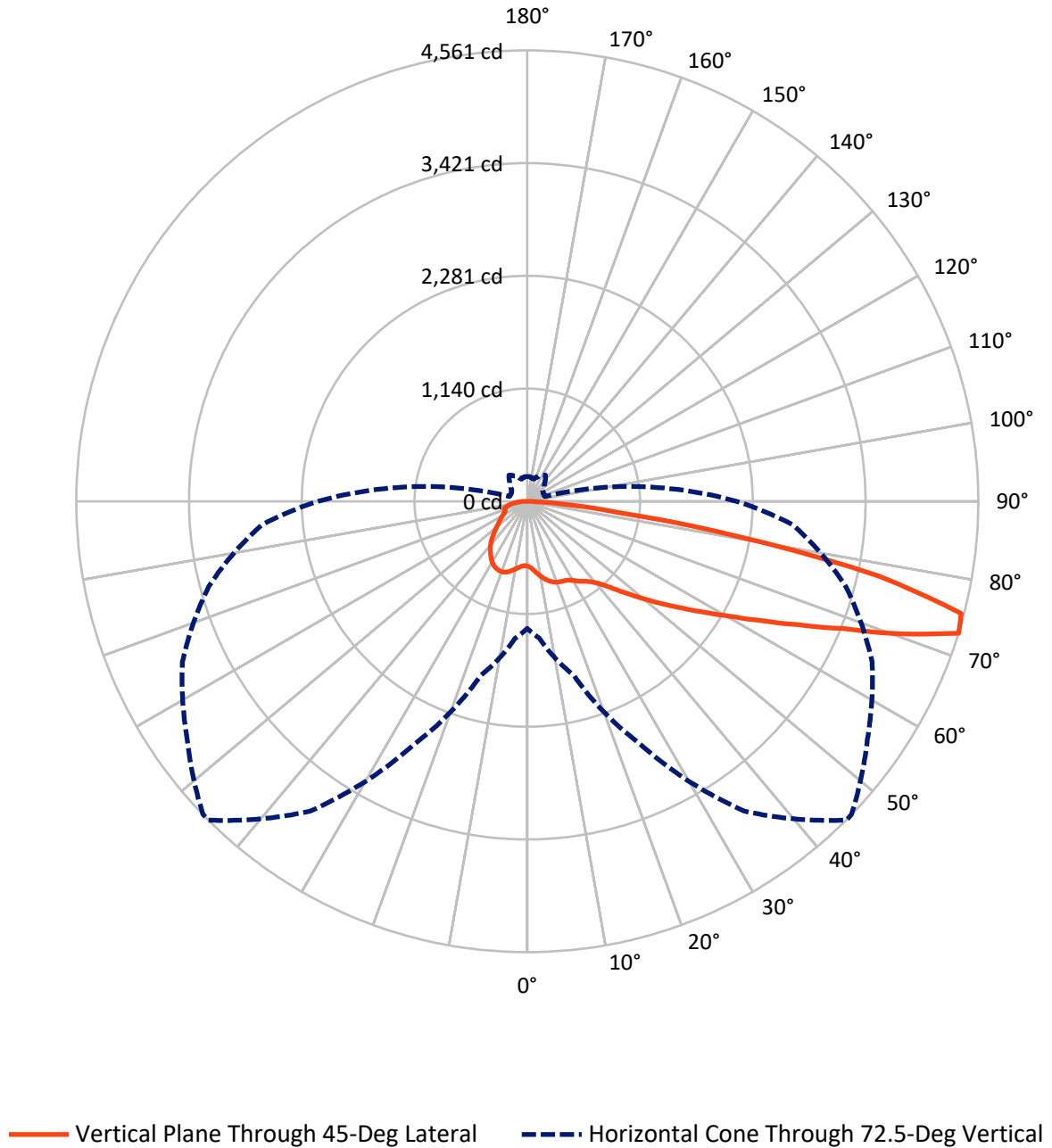
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P945711
CATALOG NUMBER: GALN-SB1C-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P945711
 CATALOG NUMBER: GALN-SB1C-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.9	0.0	1469.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5032.1	0.0	5032.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	6502.0	0.0	6502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.0
10°-20°	222.6	3.4
20°-30°	387.2	6.0
30°-40°	555.1	8.5
40°-50°	781.6	12.0
50°-60°	1197.2	18.4
60°-70°	1734.2	26.7
70°-80°	1384.9	21.3
80°-90°	172.5	2.7
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°	6502.0	100.0
0°-180°	6502.0	100.0

Coefficient of Utilization



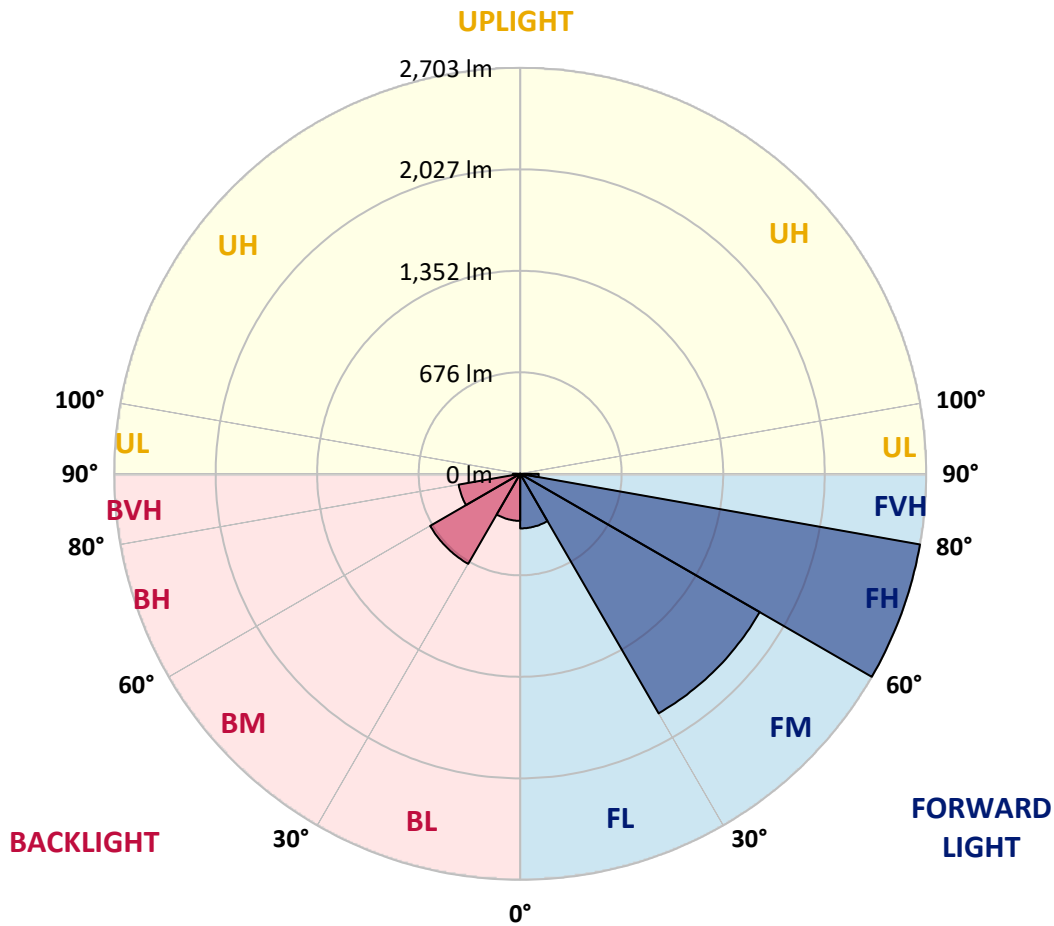
REPORT NUMBER: P945711
 CATALOG NUMBER: GALN-SB1C-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.6	5.6			
FM (30°-60°)	1841.7	28.3			
FH (60°-80°)	2703.1	41.6			G2/5000
FVH (80°-90°)	123.7	1.9			G2/225
BL (0°-30°)	312.9	4.8	B1/500		
BM (30°-60°)	692.1	10.6	B1/1000		
BH (60°-80°)	416.1	6.4	B1/500		G1/500
BVH (80°-90°)	48.7	0.7			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 Short



REPORT NUMBER: P945711
 CATALOG NUMBER: GALN-SB1C-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9
2.5°	681.6	686.1	682.0	678.2	676.5	672.0	671.7	668.9	667.2	662.4
5°	729.2	735.0	728.2	720.7	713.8	702.9	701.5	693.6	684.7	674.4
7.5°	783.0	788.1	780.3	769.0	757.0	738.8	738.5	724.1	710.0	692.6
10°	829.9	836.8	826.2	810.7	795.7	775.1	772.7	756.3	738.5	715.9
12.5°	871.4	876.2	865.9	847.1	829.6	809.0	805.9	787.8	767.9	742.2
15°	904.3	910.4	896.7	876.5	858.0	837.8	835.1	818.6	798.8	771.7
17.5°	925.8	931.0	916.9	894.3	876.5	859.7	857.7	844.0	826.5	799.1
20°	934.1	939.5	924.8	901.9	885.4	872.4	871.4	861.4	849.4	824.4
22.5°	942.3	947.4	928.2	904.3	889.9	881.6	881.3	874.8	870.0	849.4
25°	975.5	976.9	951.2	916.6	896.0	888.8	888.5	888.2	890.2	874.1
27.5°	1004.3	1003.9	982.0	949.5	917.6	902.5	902.2	905.6	912.1	898.8
30°	1046.4	1042.6	1016.6	982.7	953.6	930.3	928.2	925.1	930.3	919.7
32.5°	1135.8	1123.8	1081.7	1021.4	983.4	965.6	962.8	943.6	945.7	939.2
35°	1263.9	1248.1	1192.0	1094.7	1020.4	995.0	993.6	969.3	965.2	959.4
37.5°	1416.3	1396.8	1331.4	1200.9	1084.1	1029.3	1027.2	1005.3	988.5	982.3
40°	1569.4	1544.8	1490.6	1330.3	1177.9	1086.5	1080.0	1046.7	1027.6	1017.3
42.5°	1718.1	1697.5	1651.3	1475.6	1293.7	1170.0	1155.7	1098.8	1084.4	1074.8
45°	1849.6	1831.1	1797.2	1630.7	1429.3	1283.8	1269.7	1176.9	1172.4	1172.4
47.5°	1956.5	1952.4	1916.4	1789.0	1589.3	1413.2	1388.9	1285.5	1297.5	1316.0
50°	2075.0	2063.7	2025.3	1944.8	1777.3	1561.5	1541.7	1418.7	1463.6	1514.3
52.5°	2183.9	2190.1	2147.3	2107.2	1989.7	1727.0	1692.0	1575.9	1672.9	1756.8
55°	2295.9	2296.3	2284.3	2278.8	2212.3	1909.9	1871.5	1765.0	1919.1	2023.3
57.5°	2401.1	2401.7	2419.6	2467.9	2470.6	2120.9	2077.4	1997.2	2192.8	2299.0
60°	2494.9	2499.7	2548.3	2661.4	2697.7	2362.7	2321.6	2271.6	2475.7	2582.6
62.5°	2526.4	2543.9	2652.1	2812.8	2922.0	2659.3	2618.9	2589.1	2773.0	2872.4
65°	2473.0	2513.1	2722.3	2937.8	3152.9	3011.8	2971.7	2939.2	3082.0	3175.5
67.5°	2341.8	2393.5	2718.2	3069.0	3433.1	3435.8	3398.5	3322.1	3413.2	3449.2
70°	1996.2	2073.6	2478.8	3118.0	3754.7	4015.7	3979.7	3783.1	3743.7	3569.7
72.5°	1286.2	1390.3	1825.3	2714.8	3826.3	4561.3	4559.3	4199.3	3848.2	3335.5
75°	469.3	533.0	848.1	1704.0	3211.8	4533.6	4546.9	4128.0	3512.9	2576.4
77.5°	170.9	187.0	276.8	654.9	1975.3	3637.6	3665.3	3300.2	2500.4	1293.0
80°	89.7	98.6	141.8	254.1	846.4	2160.3	2203.8	1961.3	1175.2	389.4
82.5°	49.7	53.8	79.5	138.0	381.2	923.8	949.8	774.8	413.4	165.1
85°	26.7	28.4	37.3	75.4	186.3	320.3	327.4	231.5	164.8	96.9
87.5°	7.9	9.6	12.3	24.0	73.0	71.9	73.6	45.9	65.1	49.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945711
 CATALOG NUMBER: GALN-SB1C-827-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
655.9	0°	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9
661.1	2.5°	659.0	658.0	654.2	652.5	650.4	650.1	651.8	652.2	652.5	652.8
668.6	5°	665.2	661.7	658.3	656.3	657.0	657.3	660.7	663.1	664.8	666.2
682.6	7.5°	677.2	674.4	668.6	668.3	669.3	672.4	676.8	682.3	685.4	687.8
700.8	10°	695.0	689.8	683.0	684.0	686.1	690.5	699.8	704.2	709.4	713.8
723.1	12.5°	713.1	708.7	700.8	701.5	704.9	712.8	721.7	727.2	730.6	734.0
747.0	15°	736.8	728.9	720.3	720.3	726.5	735.0	739.2	743.6	745.7	749.4
772.7	17.5°	761.1	750.8	739.5	738.8	746.4	750.5	752.9	753.5	754.2	758.3
797.7	20°	785.4	774.1	758.0	756.6	758.3	757.7	757.3	756.6	757.7	762.8
823.4	22.5°	809.4	796.4	774.1	767.9	763.1	756.6	756.3	755.9	756.6	761.8
851.2	25°	837.5	821.7	791.9	773.4	757.3	748.4	749.4	749.8	750.5	754.6
879.9	27.5°	867.9	850.5	808.3	771.7	742.6	736.4	734.7	735.7	738.1	744.6
908.7	30°	898.4	877.9	823.4	764.8	724.1	715.5	710.0	712.4	720.0	726.5
933.7	32.5°	926.2	905.6	835.4	749.8	700.5	687.1	679.9	683.0	690.5	692.9
961.5	35°	958.7	935.4	840.5	725.8	674.8	654.2	644.6	640.2	643.9	641.5
994.0	37.5°	995.0	970.7	839.9	694.3	644.6	621.0	607.6	590.8	583.0	574.7
1041.9	40°	1048.8	1013.9	831.6	656.3	607.3	585.7	561.7	533.3	515.5	499.4
1119.4	42.5°	1122.1	1073.8	816.6	614.5	565.2	544.9	512.4	479.2	451.1	424.4
1236.8	45°	1231.4	1152.2	797.7	570.0	519.6	499.7	464.5	427.1	395.3	361.0
1403.6	47.5°	1388.9	1257.7	779.9	519.3	471.6	453.5	421.6	387.0	349.4	316.1
1644.8	50°	1605.4	1409.1	763.5	469.9	424.4	410.7	385.3	350.1	312.0	285.3
1927.4	52.5°	1880.8	1615.0	756.6	422.3	380.2	375.1	354.9	322.0	286.0	263.4
2256.9	55°	2196.9	1861.3	756.6	376.8	341.5	343.2	329.2	298.7	267.5	247.3
2596.6	57.5°	2519.6	2110.6	742.9	334.6	308.6	315.8	306.9	280.2	252.1	231.2
2953.9	60°	2816.9	2319.5	687.4	296.3	279.5	290.8	285.0	262.0	227.8	210.3
3252.6	62.5°	3045.3	2437.4	580.6	265.8	255.5	268.5	265.5	238.1	223.3	216.1
3497.8	65°	3159.7	2418.2	443.9	238.7	235.3	255.5	249.0	248.0	236.3	228.1
3577.6	67.5°	3089.5	2253.1	322.0	218.9	223.7	243.5	268.5	272.6	251.1	235.0
3352.9	70°	2781.6	1954.4	239.8	200.0	208.9	243.9	306.2	285.3	246.3	227.4
2689.1	72.5°	2116.1	1457.4	186.0	180.2	189.8	245.6	323.0	279.5	232.6	251.4
1675.3	75°	1210.1	800.1	149.3	155.8	165.8	229.5	314.4	264.4	222.0	230.9
663.8	77.5°	461.4	307.6	123.3	131.9	133.2	200.4	300.7	263.4	211.3	206.2
199.0	80°	160.0	120.2	102.1	104.8	103.1	178.1	288.4	229.1	173.0	154.8
82.2	82.5°	65.4	59.9	80.8	77.4	73.3	138.4	232.9	187.4	141.5	125.0
39.7	85°	28.4	38.0	53.4	46.9	42.5	95.9	186.7	158.6	119.5	103.1
13.0	87.5°	5.8	14.4	22.6	21.2	21.9	64.1	132.6	112.7	84.6	63.4
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>
655.9
654.2
666.9
688.5
712.8
735.4
750.8
759.7
764.8
765.2
760.1
751.1
733.7
701.5
649.1
579.9
500.4
422.0
356.9
312.4
283.6
261.7
245.2
227.8
207.6
213.7
225.4
232.2
224.4
249.4
230.9
188.0
149.7
123.6
102.8
49.7
0.0

F REPORT)