

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: P945452

Luminaire Tested: **GALN-SB1B-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2903 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

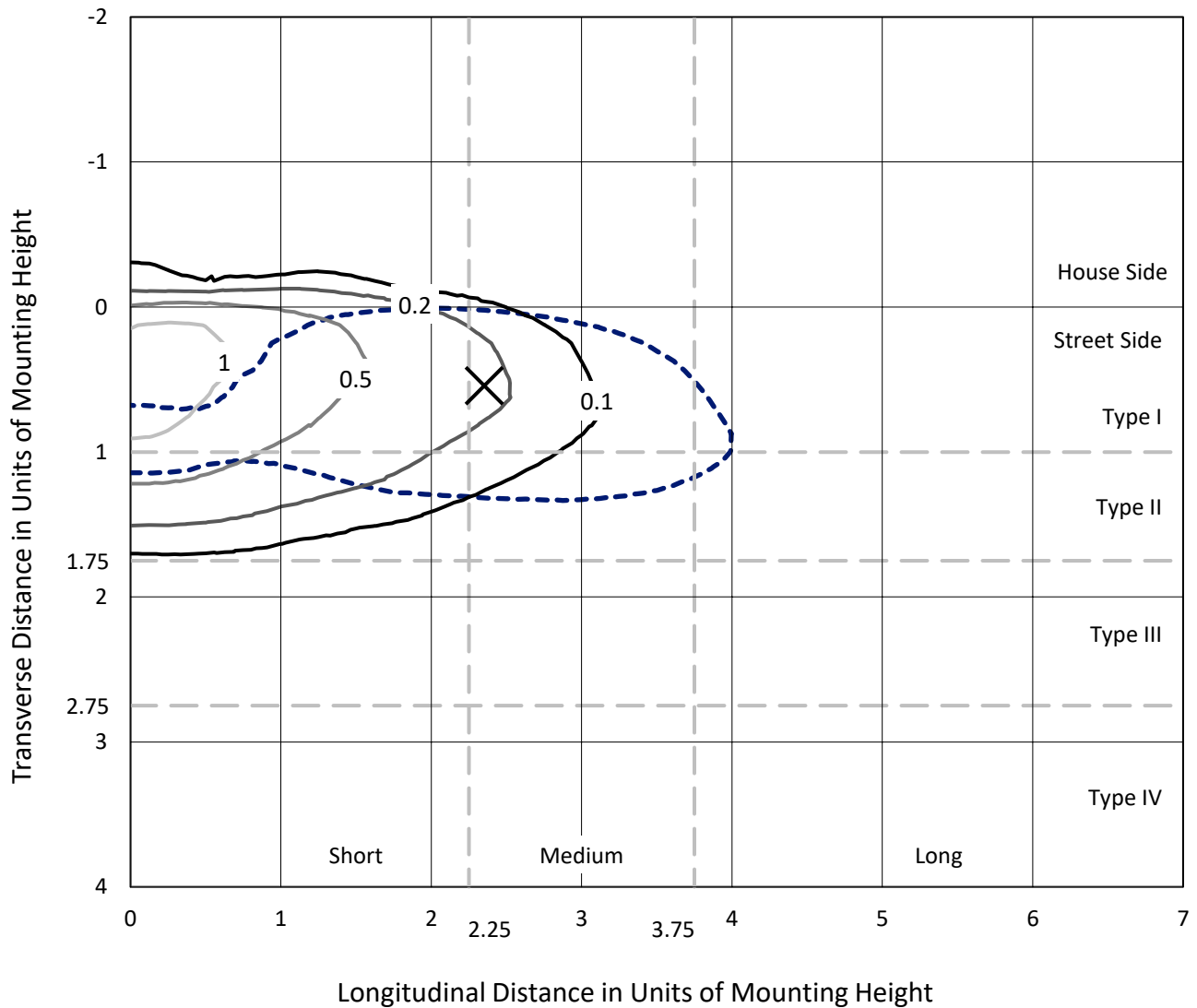
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945452
 CATALOG NUMBER: GALN-SB1B-927-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

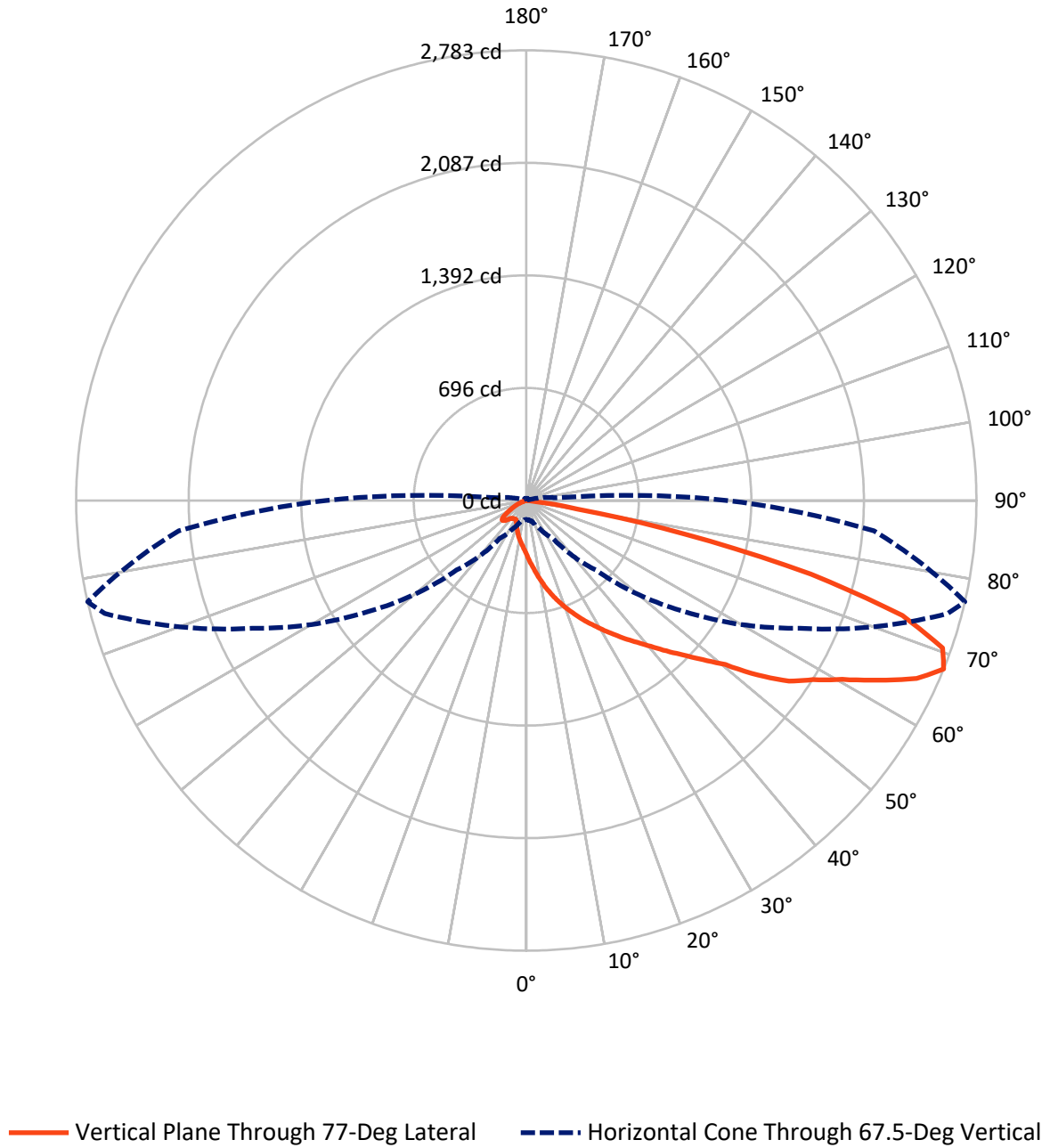
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P945452
CATALOG NUMBER: GALN-SB1B-927-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P945452
 CATALOG NUMBER: GALN-SB1B-927-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	213.6	0.0	213.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	2689.4	0.0	2689.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	2903.0	0.0	2903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	1.2
10°-20°	119.6	4.1
20°-30°	230.9	8.0
30°-40°	400.8	13.8
40°-50°	582.0	20.0
50°-60°	668.4	23.0
60°-70°	580.3	20.0
70°-80°	273.3	9.4
80°-90°	13.5	0.5
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°	2903.0	100.0
0°-180°	2903.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945452

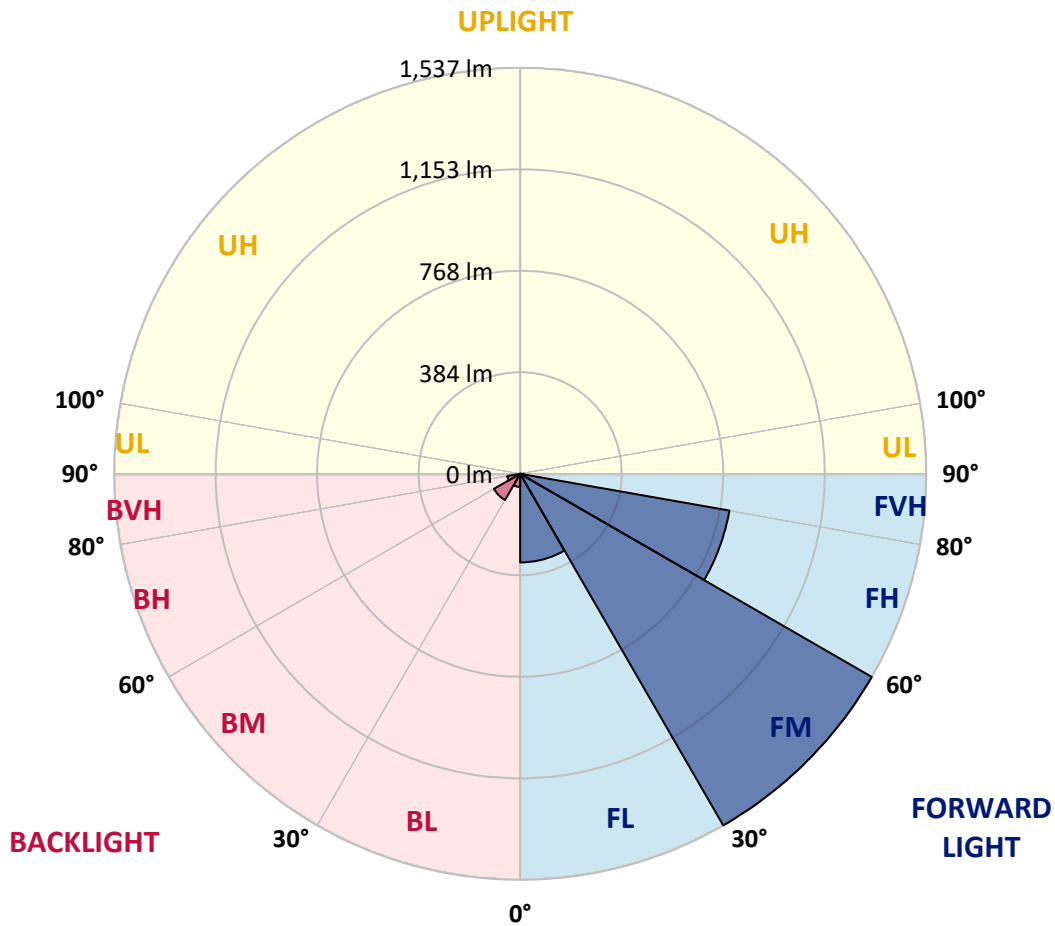
CATALOG NUMBER: GALN-SB1B-927-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.3	11.5			
FM (30°-60°)	1536.8	52.9			
FH (60°-80°)	804.1	27.7			G1/1800
FVH (80°-90°)	13.3	0.5			G1/100
BL (0°-30°)	49.4	1.7	B0/110		
BM (30°-60°)	114.4	3.9	B0/220		
BH (60°-80°)	49.5	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



REPORT NUMBER: P945452
 CATALOG NUMBER: GALN-SB1B-927-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8
2.5°	463.5	466.4	462.2	454.3	442.4	434.6	415.7	397.9	378.0	371.7
5°	565.0	567.5	562.8	554.1	538.3	523.1	498.3	460.9	422.2	409.8
7.5°	640.1	641.6	639.8	631.8	616.7	599.6	571.8	527.6	470.1	456.4
10°	694.2	698.9	698.4	695.3	685.2	671.3	641.8	591.5	523.9	506.2
12.5°	730.1	735.3	738.4	745.2	744.7	735.9	709.9	656.7	577.4	556.7
15°	740.5	746.1	757.8	773.7	787.8	792.3	774.1	720.7	636.3	609.8
17.5°	734.6	743.2	757.3	782.4	813.2	833.6	831.6	782.5	689.9	659.6
20°	747.8	756.0	767.0	788.1	824.0	861.0	875.7	841.7	743.1	711.3
22.5°	820.6	819.1	820.2	823.6	845.1	881.7	912.2	895.4	795.7	763.3
25°	936.0	929.5	918.5	899.9	894.5	912.2	943.9	943.0	851.2	816.4
27.5°	1068.3	1067.2	1041.4	996.7	971.5	964.6	979.8	989.3	906.2	869.1
30°	1195.0	1197.9	1163.1	1113.3	1067.0	1040.1	1026.4	1033.3	962.1	925.9
32.5°	1305.3	1308.4	1270.5	1212.3	1155.0	1122.5	1093.7	1076.7	1023.0	983.5
35°	1398.5	1401.6	1358.1	1293.8	1232.7	1203.3	1170.7	1124.3	1084.3	1047.5
37.5°	1481.8	1480.9	1422.7	1357.8	1297.8	1274.5	1257.4	1182.9	1147.4	1111.9
40°	1531.0	1534.8	1485.1	1413.5	1355.3	1338.3	1337.2	1255.6	1220.2	1185.8
42.5°	1545.4	1552.1	1516.1	1457.3	1404.5	1386.1	1414.4	1334.2	1305.0	1271.4
45°	1519.5	1526.0	1509.6	1468.8	1438.0	1426.1	1480.7	1415.6	1395.5	1362.3
47.5°	1443.8	1451.9	1455.8	1447.2	1446.8	1458.9	1540.2	1501.5	1502.9	1469.0
50°	1297.2	1310.9	1347.3	1378.0	1425.4	1484.9	1598.1	1594.5	1624.0	1594.8
52.5°	1030.8	1050.2	1175.7	1259.5	1366.1	1480.0	1661.7	1743.7	1836.6	1793.9
55°	828.3	828.3	930.4	1087.2	1250.3	1447.9	1689.5	1840.7	1981.3	1971.2
57.5°	675.3	683.4	748.5	887.1	1082.9	1371.5	1706.6	1901.7	2098.0	2090.6
60°	416.8	434.3	557.2	694.0	892.3	1235.4	1695.8	1963.3	2239.5	2245.4
62.5°	234.7	241.2	296.0	499.3	693.9	1052.4	1613.0	1997.7	2420.5	2445.7
65°	162.1	165.3	186.4	310.8	481.0	837.9	1451.3	1976.3	2601.8	2652.8
67.5°	117.7	119.3	132.5	189.8	285.4	607.5	1197.9	1868.1	2697.9	2783.2
70°	90.5	91.6	101.1	124.7	168.6	375.0	870.0	1653.1	2628.3	2730.2
72.5°	73.5	74.6	82.0	92.3	111.8	221.7	527.3	1342.5	2321.1	2431.1
75°	62.0	63.5	70.1	76.8	87.6	142.4	247.3	934.9	1745.5	1817.6
77.5°	34.4	31.7	57.0	63.6	73.9	90.1	115.7	550.2	977.6	997.6
80°	21.5	22.2	45.2	51.2	56.8	45.4	53.0	211.8	338.9	322.0
82.5°	1.3	2.9	34.8	37.0	38.9	19.5	20.0	71.9	81.7	75.0
85°	0.0	0.0	15.9	12.8	13.5	5.6	5.8	16.8	11.0	11.9
87.5°	0.0	0.0	0.0	0.4	0.0	0.5	1.1	1.4	0.5	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945452
 CATALOG NUMBER: GALN-SB1B-927-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
334.8	0°	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8
351.9	2.5°	339.3	326.6	301.0	276.0	255.6	236.7	223.2	210.4	203.9	203.5
374.6	5°	349.5	323.0	271.8	226.6	190.2	161.0	142.1	128.5	121.7	119.3
402.5	7.5°	364.0	324.1	246.2	183.3	140.4	115.4	104.6	100.2	98.8	97.2
434.1	10°	382.2	326.6	223.4	147.6	110.7	98.1	93.7	91.9	90.9	89.8
469.6	12.5°	402.5	329.0	200.6	122.6	97.3	90.9	87.8	85.6	84.2	82.9
506.0	15°	422.4	330.4	177.0	105.1	90.5	85.3	82.0	79.7	77.7	76.3
541.7	17.5°	442.0	332.4	154.9	94.6	84.9	79.7	76.4	73.5	71.9	70.3
579.2	20°	463.8	332.1	133.9	87.2	79.3	74.1	70.7	68.0	66.3	64.5
618.9	22.5°	484.0	330.3	115.6	80.9	73.5	68.5	64.7	62.0	60.4	58.9
659.4	25°	507.3	328.8	100.2	75.2	68.1	63.1	58.9	56.4	54.6	53.4
700.2	27.5°	529.6	326.6	89.1	69.9	62.9	58.0	54.1	51.2	49.6	48.7
742.2	30°	551.6	326.1	84.9	64.9	58.2	53.4	49.4	46.7	45.4	45.1
788.3	32.5°	578.1	327.5	86.7	63.1	53.9	49.0	45.2	43.3	42.0	42.0
839.7	35°	606.4	327.2	89.4	64.7	51.0	44.7	41.8	40.6	39.3	39.3
896.7	37.5°	641.9	327.7	91.6	67.4	49.9	41.1	39.5	37.9	37.1	37.1
959.0	40°	694.9	345.6	90.5	69.8	49.6	38.6	35.3	34.8	34.3	34.3
1029.5	42.5°	759.8	384.3	91.9	69.9	49.4	36.8	32.4	33.5	32.3	32.1
1109.0	45°	830.9	426.7	101.1	66.2	49.2	35.9	31.0	32.3	30.3	30.3
1201.1	47.5°	901.3	468.7	110.5	60.8	48.7	35.7	29.7	29.0	28.5	28.7
1321.2	50°	998.5	502.9	114.1	53.4	47.4	35.3	27.4	27.6	27.2	27.6
1490.5	52.5°	1104.3	510.2	109.8	45.1	43.8	34.3	25.8	26.5	26.3	26.7
1609.6	55°	1170.3	502.4	90.7	37.5	38.2	29.9	24.2	25.6	25.6	25.6
1726.1	57.5°	1238.4	469.4	64.4	30.5	31.7	24.5	22.7	24.7	24.5	24.3
1866.3	60°	1287.5	416.1	42.4	25.1	25.2	20.2	21.1	23.3	23.1	22.2
2010.9	62.5°	1324.1	357.1	27.2	21.3	19.3	18.2	19.3	21.1	20.4	18.4
2133.5	65°	1319.9	275.5	20.9	18.2	15.9	15.9	16.8	18.4	16.2	13.0
2156.9	67.5°	1243.0	186.4	17.3	15.3	13.3	13.2	13.9	15.3	13.9	11.0
2036.9	70°	1105.4	121.9	13.9	11.9	10.6	9.7	11.2	13.2	11.7	8.8
1734.0	72.5°	897.2	74.3	10.5	8.7	7.8	6.3	8.8	10.8	9.4	6.5
1205.8	75°	580.5	37.9	7.2	5.6	4.1	3.8	6.5	8.1	6.5	4.0
535.0	77.5°	222.1	15.9	4.0	2.5	2.2	1.8	3.6	4.9	2.7	0.9
103.7	80°	42.7	6.7	2.0	1.3	1.1	0.7	0.5	0.4	0.0	0.0
18.4	82.5°	7.4	2.2	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
3.6	85°	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	87.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
334.8
203.2
119.0
96.8
89.4
82.6
76.1
70.1
64.4
58.8
53.2
48.7
44.9
42.0
39.3
37.1
34.3
31.9
30.3
28.7
27.6
26.7
25.6
24.3
22.2
18.0
12.6
10.6
8.5
6.1
3.4
0.7
0.0
0.0
0.0
0.0
0.0

F REPORT)