

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: P949738

Luminaire Tested: **GALN-SB4B-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10498 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

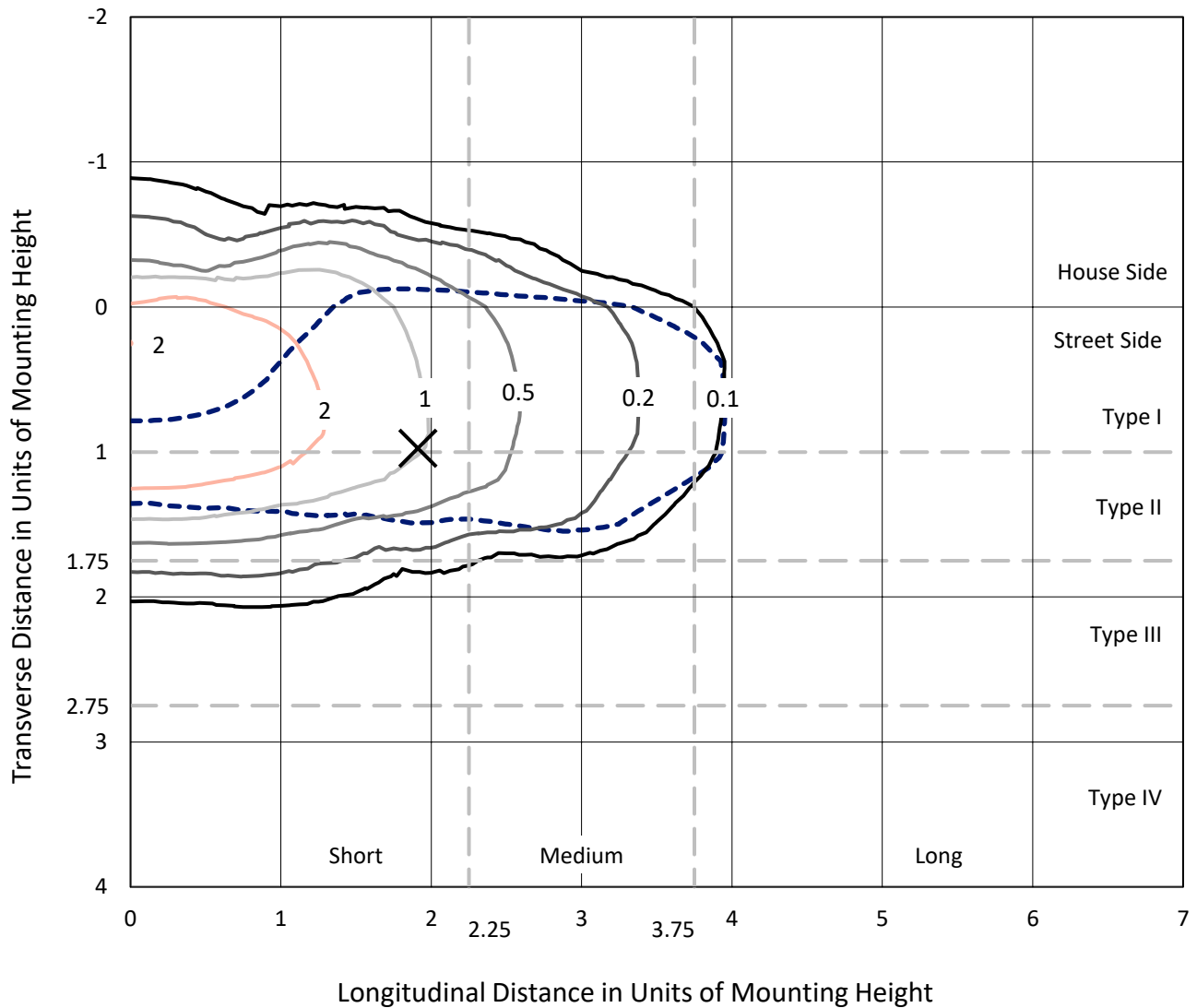
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949738
 CATALOG NUMBER: GALN-SB4B-927-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

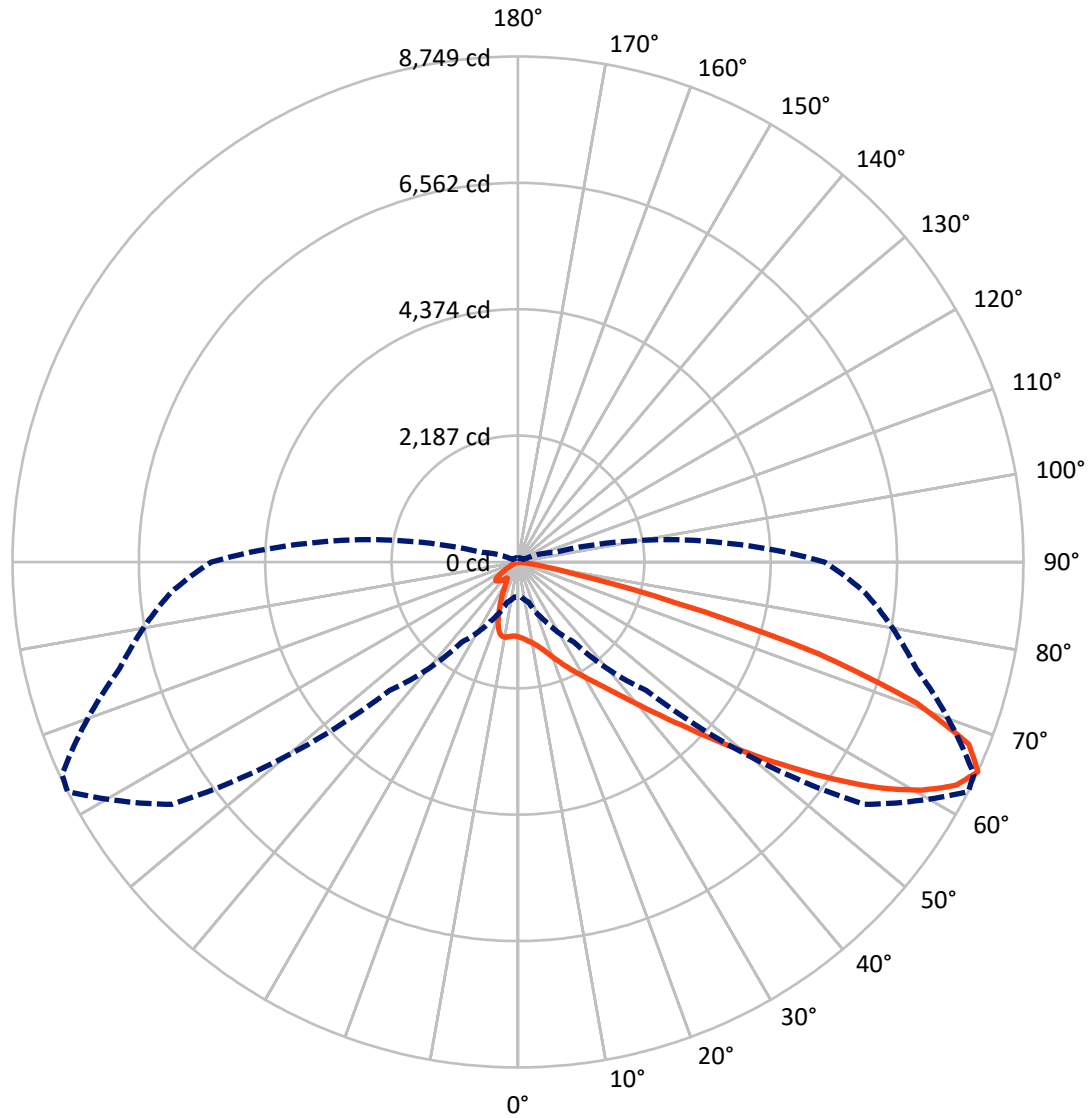
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P949738
CATALOG NUMBER: GALN-SB4B-927-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P949738
 CATALOG NUMBER: GALN-SB4B-927-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1543.1	0.0	1543.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8954.9	0.0	8954.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	10498.0	0.0	10498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	1.2
10°-20°	338.7	3.2
20°-30°	589.8	5.6
30°-40°	1063.0	10.1
40°-50°	2108.3	20.1
50°-60°	2871.9	27.4
60°-70°	2292.3	21.8
70°-80°	1037.3	9.9
80°-90°	74.6	0.7
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°	10498.0	100.0
0°-180°	10498.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949738

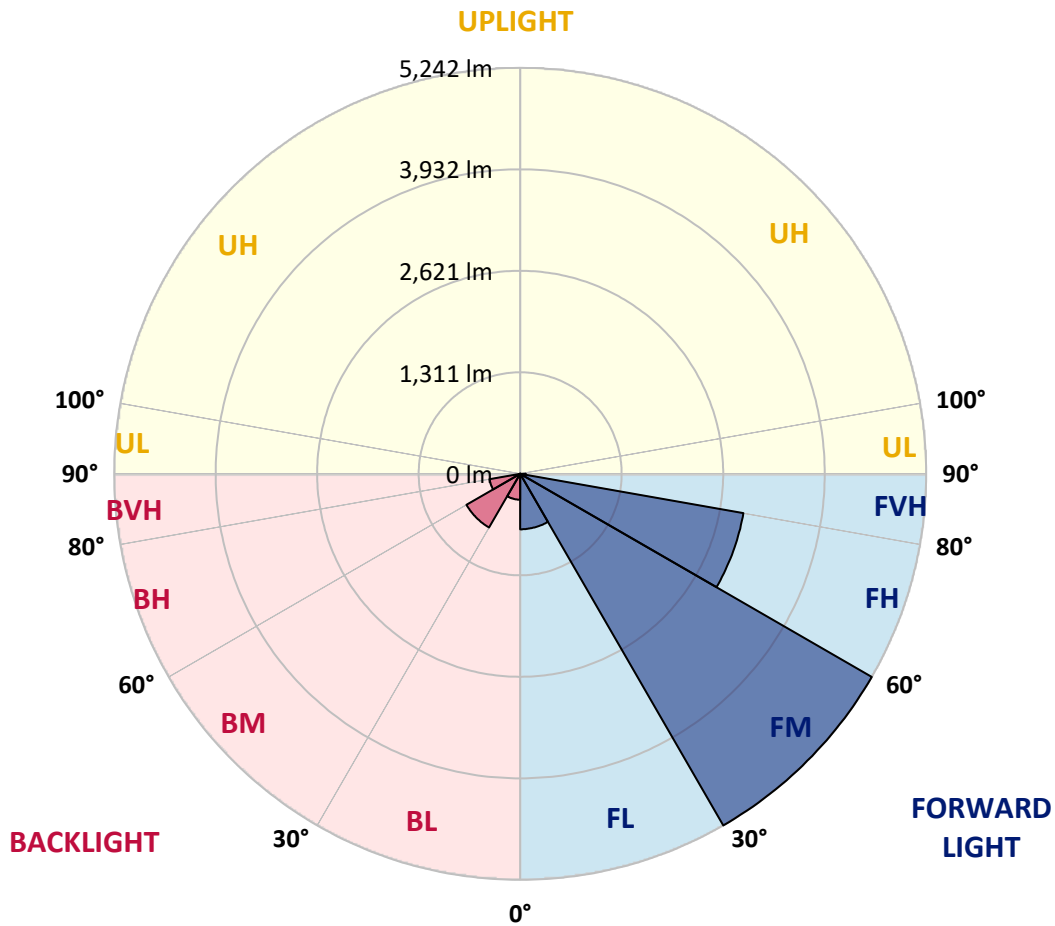
CATALOG NUMBER: GALN-SB4B-927-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.6	6.8			
FM (30°-60°)	5242.4	49.9			
FH (60°-80°)	2926.8	27.9			G2/5000
FVH (80°-90°)	69.0	0.7			G1/100
BL (0°-30°)	334.0	3.2	B1/500		
BM (30°-60°)	800.8	7.6	B1/1000		
BH (60°-80°)	402.8	3.8	B1/500		G1/500
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P949738

CATALOG NUMBER: GALN-SB4B-927-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7
2.5°	1326.0	1322.4	1327.4	1325.3	1323.8	1320.9	1319.5	1318.0	1315.2	1313.0
5°	1329.6	1327.4	1332.5	1336.8	1341.2	1345.5	1347.7	1350.5	1347.7	1341.9
7.5°	1299.3	1297.8	1308.7	1321.7	1341.2	1357.8	1375.8	1385.9	1386.7	1384.5
10°	1297.1	1293.5	1304.3	1320.2	1345.5	1375.1	1406.9	1428.5	1431.4	1440.8
12.5°	1331.0	1327.4	1342.6	1359.9	1385.9	1417.0	1456.0	1486.3	1490.6	1503.6
15°	1388.1	1383.0	1400.4	1422.8	1456.0	1491.4	1532.5	1560.0	1563.6	1579.5
17.5°	1454.5	1449.5	1469.7	1493.5	1529.6	1578.0	1625.7	1656.0	1660.4	1670.5
20°	1539.8	1533.3	1549.1	1570.8	1609.1	1666.9	1723.9	1767.3	1766.5	1766.5
22.5°	1638.7	1628.6	1642.3	1659.6	1695.8	1765.8	1841.6	1892.9	1892.9	1872.7
25°	1744.9	1734.8	1749.9	1765.8	1797.6	1877.0	1965.9	2029.4	2032.3	1997.6
27.5°	1877.8	1864.8	1876.3	1895.1	1913.9	1994.8	2100.2	2173.9	2175.3	2121.9
30°	2133.4	2096.6	2060.5	2040.3	2048.9	2129.1	2241.8	2323.4	2330.6	2256.9
32.5°	2601.4	2594.2	2467.1	2301.0	2214.3	2273.5	2399.9	2498.1	2502.5	2407.9
35°	3328.7	3320.0	3115.6	2799.3	2516.9	2467.1	2592.0	2708.3	2705.4	2598.5
37.5°	4196.8	4188.8	3919.5	3496.2	3039.1	2759.6	2839.7	2961.8	2979.9	2839.7
40°	4938.5	4908.9	4738.4	4330.4	3732.4	3244.9	3192.2	3273.1	3291.9	3125.7
42.5°	5500.4	5475.1	5388.4	5133.5	4571.6	3962.8	3607.5	3638.5	3659.5	3460.1
45°	5791.4	5785.7	5820.3	5796.5	5426.7	4843.9	4201.1	4071.8	4079.8	3830.6
47.5°	5832.6	5829.7	5987.9	6211.8	6161.9	5837.7	4963.1	4612.1	4583.9	4248.8
50°	5589.9	5584.2	5887.5	6307.1	6653.0	6672.5	5828.3	5220.9	5158.8	4681.4
52.5°	4815.0	4813.6	5311.9	6010.3	6825.6	7403.4	6683.4	5889.7	5785.7	5139.3
55°	3705.0	3731.7	4302.9	5128.4	6510.8	7755.1	7451.1	6632.1	6472.5	5600.0
57.5°	2624.5	2663.5	3228.3	3963.5	5534.3	7547.1	7970.4	7376.0	7204.1	6059.4
60°	1409.8	1444.4	2009.9	2887.4	4117.3	6771.5	8244.1	8021.6	7859.1	6495.6
62.5°	839.9	851.5	1085.5	1864.0	2784.9	5173.2	8127.8	8513.5	8379.8	6861.8
65°	603.0	605.2	722.9	1138.2	1690.7	3143.1	7312.4	8748.9	8707.7	7137.6
67.5°	507.7	506.3	555.4	756.2	1151.9	1574.4	5604.4	8416.0	8590.7	7312.4
70°	435.5	437.7	495.4	553.9	865.9	891.2	2786.3	7327.6	7700.2	7358.6
72.5°	324.3	331.5	384.9	504.8	653.6	613.2	962.0	5433.2	6107.0	6933.3
75°	228.9	232.6	270.8	424.7	487.5	446.3	491.1	2808.7	3672.5	5315.5
77.5°	176.2	182.7	205.1	296.8	480.3	313.4	300.4	972.1	1493.5	3211.0
80°	95.3	106.9	148.1	214.5	337.3	221.7	148.8	387.1	506.3	1501.5
82.5°	49.1	54.9	103.3	154.6	192.1	193.6	73.7	161.1	208.7	463.7
85°	19.5	23.8	69.3	85.2	98.9	95.3	33.2	65.0	75.1	128.6
87.5°	4.3	7.2	25.3	19.5	18.8	20.2	7.9	15.2	14.4	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949738
 CATALOG NUMBER: GALN-SB4B-927-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1295.7	0°	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7	1295.7
1304.3	2.5°	1303.6	1300.7	1292.8	1284.1	1274.0	1268.2	1264.6	1263.9	1258.8	1255.2
1333.2	5°	1325.3	1322.4	1307.2	1289.2	1269.7	1254.5	1240.0	1227.0	1208.3	1204.7
1375.1	7.5°	1368.6	1360.7	1336.1	1311.5	1274.7	1230.7	1177.2	1115.8	1060.9	1044.3
1430.7	10°	1422.0	1411.2	1380.2	1336.8	1255.2	1135.3	1006.0	886.2	790.8	764.1
1496.4	12.5°	1482.7	1473.3	1432.1	1352.0	1173.6	956.2	758.3	609.5	517.1	494.0
1566.5	15°	1554.9	1541.2	1484.1	1328.9	1027.7	726.5	520.7	432.6	399.4	395.1
1646.6	17.5°	1631.5	1609.1	1530.4	1245.8	831.3	516.4	402.3	377.0	362.6	358.2
1727.5	20°	1701.5	1672.6	1557.8	1120.2	621.1	402.3	360.4	343.8	330.8	325.7
1808.4	22.5°	1771.6	1730.4	1557.8	949.0	465.8	356.8	330.8	315.6	300.4	293.9
1895.1	25°	1844.5	1789.6	1530.4	758.3	374.8	327.2	302.6	286.0	273.0	265.1
1977.4	27.5°	1915.3	1839.5	1467.5	577.8	333.7	301.2	276.6	260.7	248.4	242.7
2067.0	30°	1982.5	1888.6	1379.4	438.4	306.9	275.9	252.8	239.1	226.8	221.0
2183.3	32.5°	2073.5	1950.7	1285.5	359.7	283.8	252.1	231.1	218.1	207.3	202.9
2334.2	35°	2199.9	2042.4	1204.7	353.2	264.3	232.6	211.6	199.3	188.5	184.9
2529.2	37.5°	2379.0	2190.5	1162.0	396.5	248.4	215.2	195.7	182.7	172.6	169.7
2776.9	40°	2600.0	2391.2	1185.2	439.8	237.6	200.1	181.3	168.3	159.6	156.0
3061.5	42.5°	2862.1	2639.0	1313.0	473.1	230.4	187.1	167.6	153.1	147.3	145.9
3384.3	45°	3163.3	2911.2	1508.7	508.4	218.8	174.8	153.8	143.0	138.7	137.9
3735.3	47.5°	3505.6	3210.2	1735.5	552.5	207.3	163.2	143.0	135.8	132.2	130.7
4101.5	50°	3845.1	3511.4	1968.8	577.0	197.9	152.4	134.3	128.6	125.7	124.9
4488.6	52.5°	4200.4	3821.2	2157.3	553.9	189.9	143.7	127.1	122.8	119.9	119.2
4845.3	55°	4539.1	4071.8	2189.8	470.2	174.1	135.1	119.2	117.0	113.4	113.4
5207.2	57.5°	4830.9	4197.5	1960.1	345.2	158.2	122.1	111.2	109.1	106.2	105.4
5533.6	60°	5098.8	4161.4	1513.0	232.6	140.8	109.1	101.1	99.7	96.8	93.2
5817.4	62.5°	5249.8	4002.5	1034.9	151.7	123.5	95.3	89.6	88.8	82.3	75.1
6027.6	65°	5306.8	3676.1	645.7	110.5	103.3	81.6	77.3	75.8	66.4	58.5
6146.8	67.5°	5257.0	3138.7	325.7	87.4	81.6	67.9	63.6	63.6	57.1	49.8
6139.5	70°	5057.7	2353.0	137.2	70.1	62.8	52.0	52.0	54.9	48.4	40.4
5821.0	72.5°	4625.1	1583.1	72.9	53.4	46.9	36.8	42.6	44.8	38.3	30.3
4764.4	75°	3676.8	965.6	50.6	39.7	29.6	26.0	32.5	33.9	26.0	20.2
3266.6	77.5°	2514.7	554.7	33.9	25.3	18.8	15.2	22.4	20.9	13.7	9.4
1259.5	80°	1104.3	231.1	19.5	11.6	7.2	5.8	7.9	5.8	4.3	2.9
172.6	82.5°	129.3	54.2	7.2	4.3	2.9	1.4	0.7	0.0	0.0	0.0
52.7	85°	26.7	6.5	3.6	1.4	0.7	0.0	0.0	0.0	0.0	0.0
9.4	87.5°	5.1	1.4	0.7	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>
1295.7
1258.8
1203.2
1036.4
754.0
487.5
390.7
356.1
322.8
290.3
262.2
242.7
221.7
202.9
184.9
169.0
155.3
145.9
137.2
130.7
124.9
119.2
112.7
104.7
92.4
73.7
57.8
49.1
39.7
30.3
19.5
10.1
2.9
0.0
0.0
0.0
0.0

F REPORT)