

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: P940908

Luminaire Tested: **GALN-SB4A-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9864 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

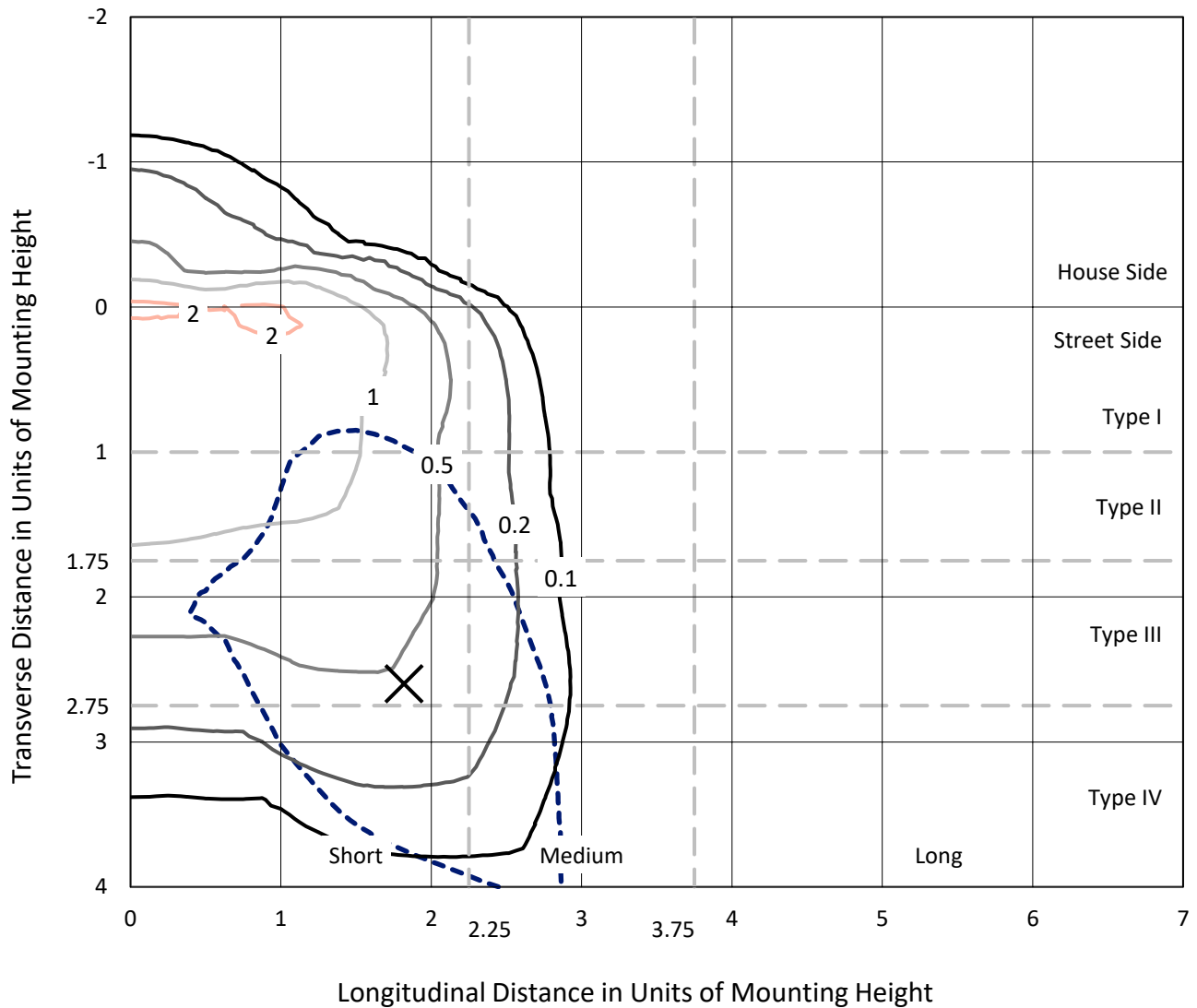
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940908
 CATALOG NUMBER: GALN-SB4A-940-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

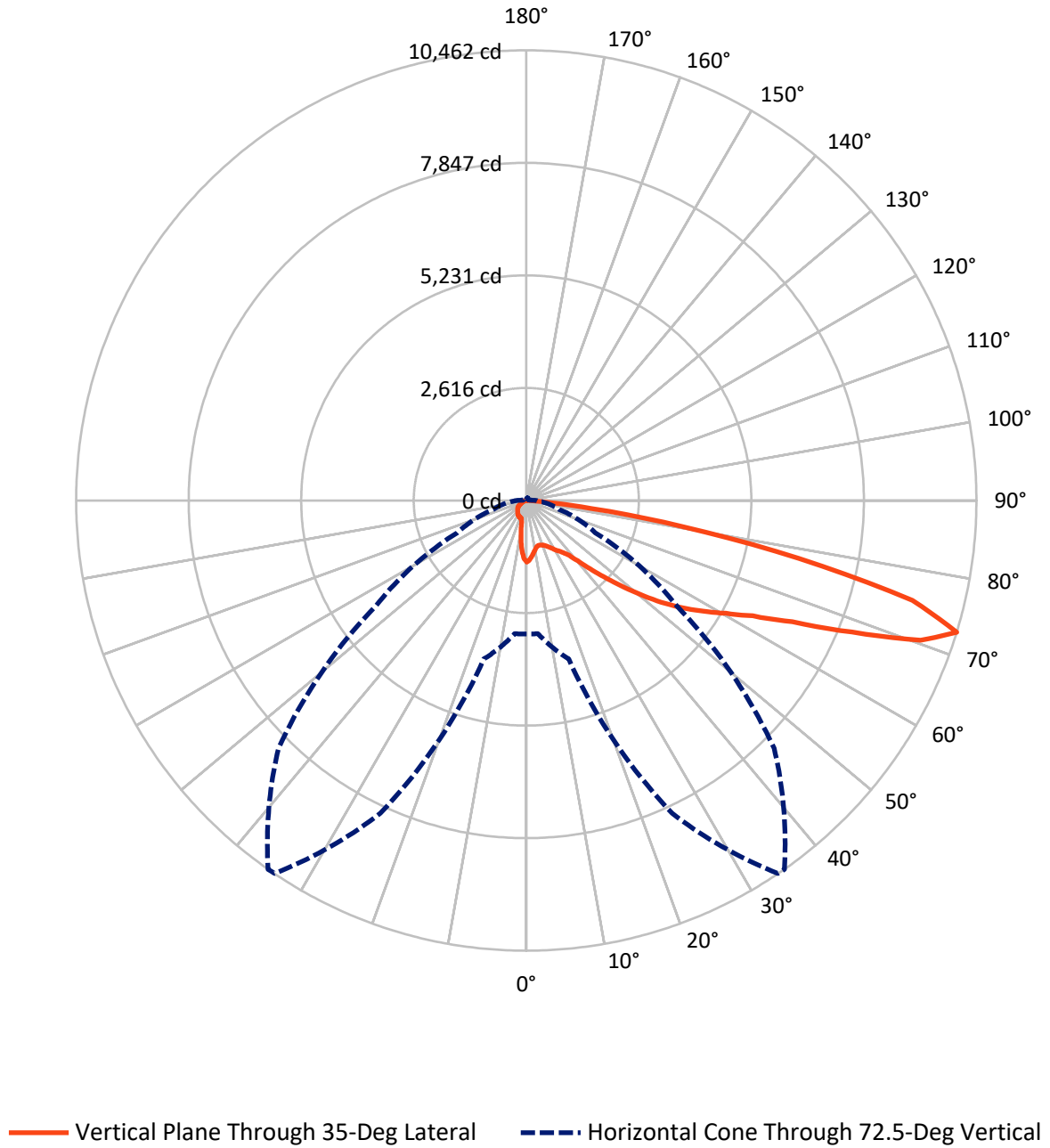
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P940908
CATALOG NUMBER: GALN-SB4A-940-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P940908
 CATALOG NUMBER: GALN-SB4A-940-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.1	0.0	1110.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8753.9	0.0	8753.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	9864.0	0.0	9864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	1.2
10°-20°	274.8	2.8
20°-30°	446.4	4.5
30°-40°	744.9	7.6
40°-50°	1409.3	14.3
50°-60°	2239.4	22.7
60°-70°	2770.3	28.1
70°-80°	1722.1	17.5
80°-90°	139.2	1.4
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°	9864.0	100.0
0°-180°	9864.0	100.0

Coefficient of Utilization



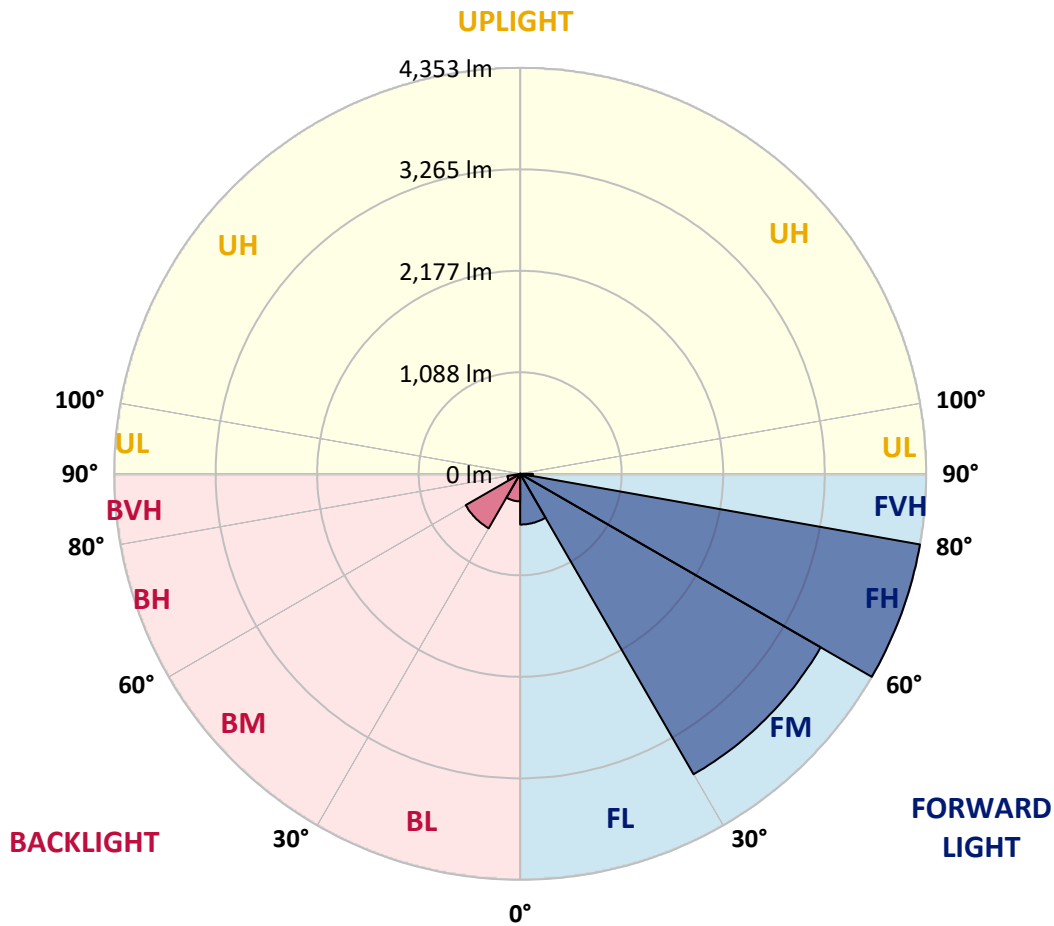
REPORT NUMBER: P940908
 CATALOG NUMBER: GALN-SB4A-940-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.8	5.5			
FM (30°-60°)	3719.7	37.7			
FH (60°-80°)	4353.1	44.1			G2/5000
FVH (80°-90°)	137.3	1.4			G2/225
BL (0°-30°)	295.0	3.0	B1/500		
BM (30°-60°)	674.0	6.8	B1/1000		
BH (60°-80°)	139.3	1.4	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			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 IV Short



REPORT NUMBER: P940908
 CATALOG NUMBER: GALN-SB4A-940-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1366.0	1377.6	1379.8	1383.4	1383.4	1387.7	1394.9	1405.1	1421.7	1430.3
5°	1259.1	1267.7	1278.6	1287.2	1303.9	1306.0	1334.2	1361.7	1400.0	1428.9
7.5°	1151.4	1161.5	1175.9	1196.9	1218.6	1225.1	1267.7	1314.0	1374.7	1428.9
10°	1075.5	1076.2	1089.2	1110.2	1144.9	1152.8	1204.8	1270.6	1346.5	1420.2
12.5°	1032.8	1037.9	1043.7	1059.6	1092.8	1097.9	1153.5	1230.9	1318.3	1415.2
15°	1032.8	1036.4	1040.1	1048.0	1074.7	1079.1	1128.2	1205.6	1303.9	1417.3
17.5°	1043.7	1049.5	1046.6	1056.0	1084.1	1087.0	1130.4	1198.3	1303.1	1431.1
20°	1069.7	1074.0	1068.2	1074.0	1102.2	1108.0	1152.8	1212.1	1315.4	1454.9
22.5°	1110.9	1113.1	1099.3	1103.7	1132.6	1139.8	1191.8	1251.1	1345.1	1493.2
25°	1162.9	1167.3	1146.3	1151.4	1178.8	1187.5	1247.5	1309.6	1392.0	1546.0
27.5°	1222.9	1225.1	1207.0	1206.3	1241.7	1254.0	1314.7	1381.9	1454.9	1612.5
30°	1291.6	1298.1	1280.7	1277.8	1322.7	1332.8	1392.8	1470.8	1547.4	1712.2
32.5°	1345.8	1350.8	1340.7	1348.0	1393.5	1401.4	1487.4	1596.6	1692.7	1853.9
35°	1423.8	1426.7	1403.6	1416.6	1468.7	1488.9	1616.8	1772.9	1875.6	2031.7
37.5°	1706.4	1706.4	1608.1	1543.8	1593.7	1611.8	1793.9	1994.8	2101.1	2270.2
40°	2097.5	2091.0	1947.1	1815.6	1809.1	1844.5	2046.1	2274.5	2392.3	2556.4
42.5°	2514.5	2504.4	2308.5	2178.4	2156.7	2169.0	2337.4	2619.3	2739.3	2905.5
45°	2884.5	2881.7	2702.4	2527.5	2488.5	2527.5	2701.0	3022.6	3108.6	3283.5
47.5°	3194.6	3194.6	3063.8	2949.6	2929.4	2952.5	3193.2	3470.0	3462.0	3686.1
50°	3551.7	3548.8	3424.4	3375.3	3396.3	3428.8	3759.8	3941.2	3827.8	4081.4
52.5°	3801.7	3819.1	3776.4	3768.5	3875.5	3931.8	4335.1	4402.3	4155.2	4456.6
55°	3999.8	4020.0	4069.2	4124.8	4330.8	4404.5	4892.4	4839.6	4429.1	4781.8
57.5°	4280.2	4251.3	4327.2	4437.0	4770.2	4859.1	5432.3	5252.3	4649.5	5045.6
60°	4620.6	4625.0	4638.0	4776.7	5208.9	5323.1	5964.2	5642.6	4791.2	5207.5
62.5°	5029.7	5036.2	5063.0	5276.2	5798.0	5905.7	6530.9	5962.1	4856.2	5162.0
65°	5001.5	5029.0	5327.5	6056.8	6693.5	6799.8	7192.2	6186.1	4757.9	4745.7
67.5°	4556.3	4601.1	5100.5	6989.1	8043.6	8162.2	7991.6	6230.2	4333.7	3690.4
70°	3972.3	3988.2	4588.8	7827.5	9607.0	9726.9	8707.1	5745.2	3288.6	2058.4
72.5°	3102.1	3105.7	3810.4	8021.9	10455.5	10462.0	8145.5	4265.0	1768.6	790.7
75°	2216.0	2194.3	2552.1	6505.6	9198.6	9272.3	6106.6	2000.6	675.8	373.7
77.5°	1188.2	1212.1	1444.1	3858.1	6354.5	6480.3	3331.9	576.8	344.0	254.4
80°	367.2	387.4	591.9	1766.4	3599.4	3675.2	1235.2	256.6	240.0	181.4
82.5°	115.6	120.0	276.1	742.3	1494.0	1528.6	357.8	145.3	164.1	120.0
85°	33.2	34.0	122.9	276.8	369.3	376.6	100.5	56.4	94.0	74.4
87.5°	3.6	11.6	46.3	46.3	32.5	31.8	10.8	12.3	26.7	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940908
 CATALOG NUMBER: GALN-SB4A-940-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1429.6	0°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
1436.1	2.5°	1432.5	1433.2	1423.8	1407.9	1390.6	1376.1	1358.1	1343.6	1333.5	1330.6
1449.1	5°	1442.6	1437.6	1410.8	1362.4	1304.6	1254.7	1199.1	1155.0	1126.1	1113.8
1462.9	7.5°	1457.8	1443.4	1384.8	1289.4	1178.8	1080.5	980.8	903.5	854.3	829.7
1475.9	10°	1470.8	1441.9	1341.4	1183.9	1014.8	865.9	731.4	638.2	586.2	561.6
1491.1	12.5°	1483.1	1441.2	1285.1	1058.8	829.7	647.6	522.6	476.3	461.8	456.8
1515.6	15°	1506.2	1443.4	1214.2	915.7	645.4	489.3	443.8	443.1	445.9	444.5
1553.2	17.5°	1538.0	1445.5	1134.0	764.0	498.0	431.5	429.3	435.8	440.2	438.0
1600.2	20°	1579.2	1454.2	1048.7	613.6	427.9	417.0	422.1	427.9	431.5	427.9
1663.1	22.5°	1637.1	1469.4	955.5	492.9	405.5	408.4	412.7	419.2	422.8	417.8
1743.3	25°	1707.9	1493.2	863.7	428.6	394.6	398.2	404.7	412.0	416.3	411.3
1844.5	27.5°	1799.7	1531.5	779.1	414.1	383.8	386.0	395.4	406.2	412.0	405.5
1988.3	30°	1932.7	1594.4	706.1	420.6	377.3	372.2	385.2	400.4	406.9	401.1
2184.2	32.5°	2109.0	1683.3	661.3	430.8	374.4	356.3	368.6	388.1	399.0	395.4
2440.0	35°	2340.3	1818.5	644.0	442.3	372.2	339.7	348.4	369.3	388.1	391.7
2762.4	37.5°	2620.7	2006.4	649.0	447.4	365.7	326.0	330.3	348.4	372.9	384.5
3125.2	40°	2939.5	2225.4	678.0	442.3	358.5	314.4	315.1	328.9	350.5	367.9
3515.5	42.5°	3268.3	2481.2	731.4	423.5	352.0	304.3	302.1	311.5	326.0	338.3
3905.1	45°	3581.3	2744.3	784.2	397.5	344.0	294.2	289.1	292.7	295.6	300.7
4284.5	47.5°	3854.5	2929.4	769.0	373.7	333.2	282.6	273.9	272.5	263.8	263.1
4623.5	50°	4043.1	2969.8	683.0	349.8	317.3	269.6	255.9	247.2	232.0	224.8
4877.2	52.5°	4103.1	2810.1	558.0	326.0	291.3	252.2	232.7	219.0	200.2	193.7
5023.2	55°	4023.6	2497.1	445.9	297.1	255.1	229.1	207.4	189.4	174.2	166.2
5039.1	57.5°	3829.2	2098.9	352.7	263.1	216.8	203.1	181.4	163.3	150.3	142.4
4862.7	60°	3506.8	1666.7	279.0	222.6	185.0	174.9	152.5	140.9	129.4	120.0
4407.4	62.5°	3017.5	1189.7	219.0	176.4	154.7	143.1	130.1	121.4	107.7	94.7
3588.5	65°	2354.8	727.8	169.1	129.4	124.3	118.5	110.6	102.6	86.0	73.0
2341.0	67.5°	1485.3	344.8	120.7	97.6	98.3	95.4	91.8	85.3	73.0	61.4
1048.7	70°	654.1	167.0	79.5	74.4	73.0	73.0	75.9	73.7	62.2	51.3
364.3	72.5°	222.6	89.6	59.3	56.4	52.8	52.0	63.6	61.4	49.9	39.8
181.4	75°	116.4	60.0	43.4	40.5	31.8	38.3	50.6	47.7	35.4	26.0
120.0	77.5°	75.9	42.6	29.6	26.0	18.1	25.3	37.6	33.2	21.0	13.0
78.8	80°	47.7	28.2	17.3	12.3	8.7	13.7	20.2	14.5	8.0	2.9
46.3	82.5°	25.3	14.5	6.5	4.3	3.6	4.3	5.1	3.6	1.4	0.0
23.9	85°	10.1	5.1	2.2	1.4	0.7	0.0	1.4	0.7	0.0	0.0
4.3	87.5°	3.6	0.7	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>
1429.6
1335.7
1118.1
833.3
562.3
455.3
443.8
437.3
427.2
417.0
410.5
405.5
400.4
395.4
391.7
387.4
373.7
343.3
303.6
262.4
225.5
193.0
166.2
140.9
117.8
92.5
70.8
60.0
49.1
37.6
23.9
11.6
2.2
0.0
0.0
0.0
0.0

F REPORT)