

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: P949383

Luminaire Tested: **GALN-SB4A-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9111 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

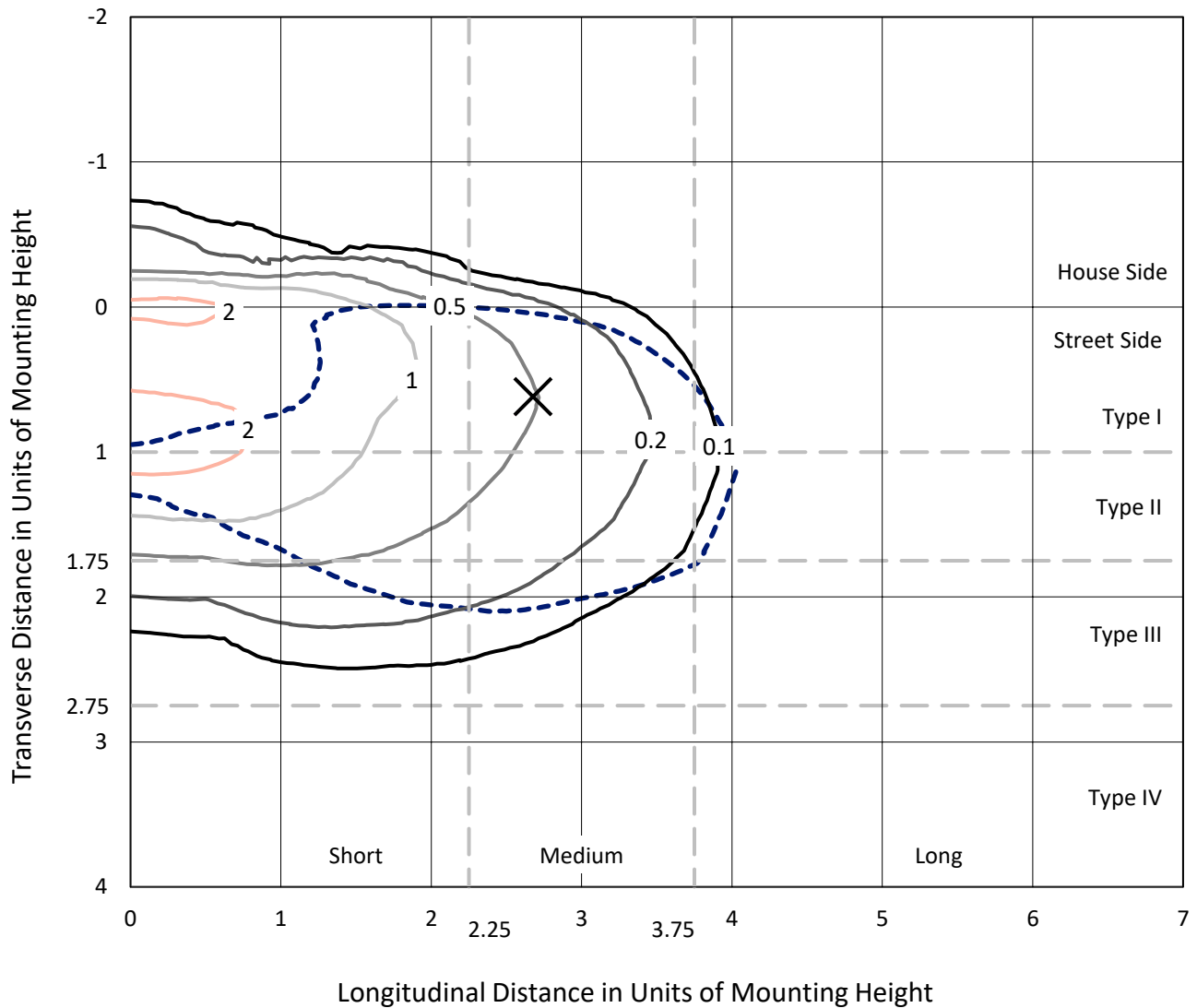
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949383
 CATALOG NUMBER: GALN-SB4A-927-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

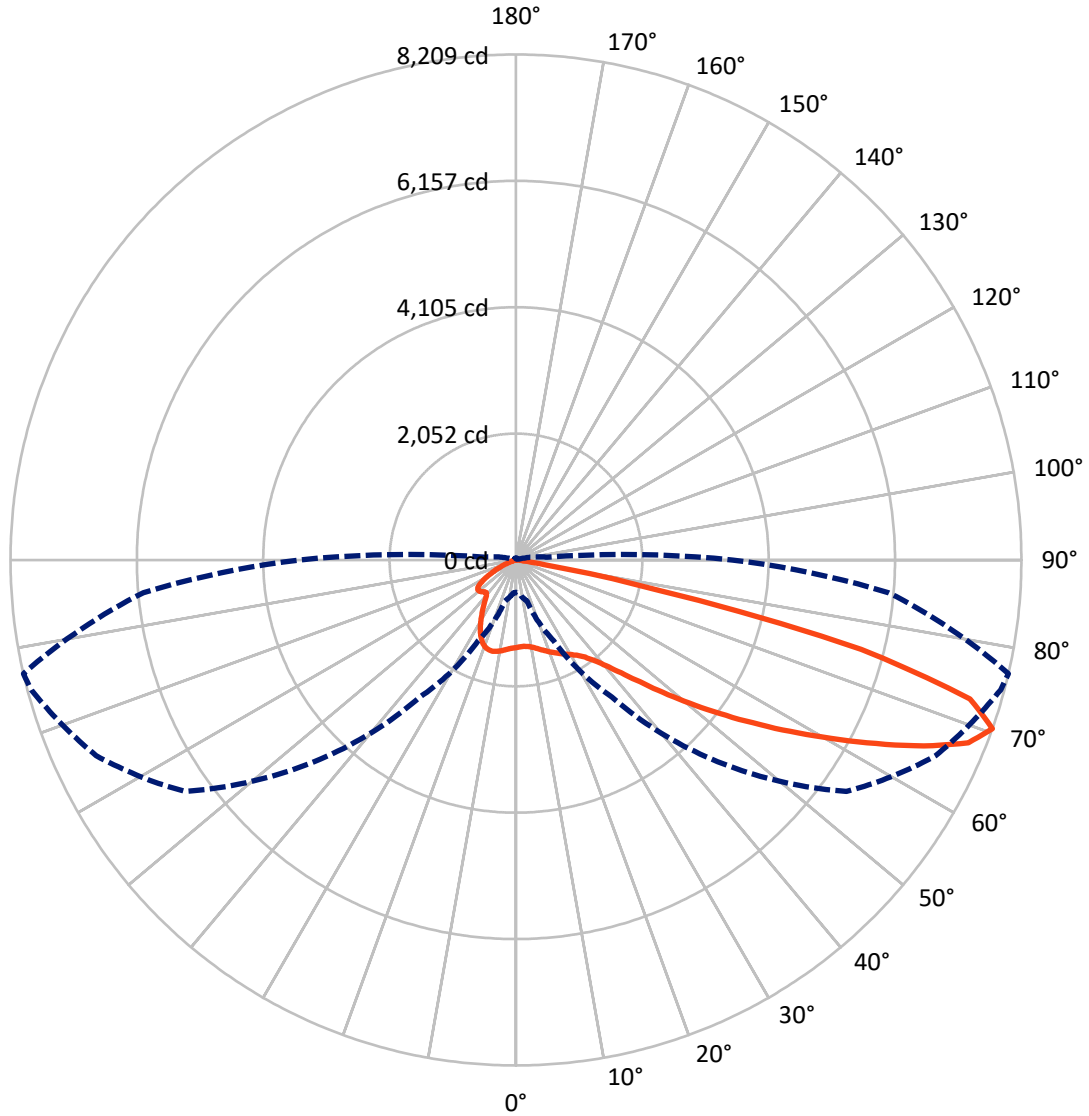
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P949383
CATALOG NUMBER: GALN-SB4A-927-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P949383
 CATALOG NUMBER: GALN-SB4A-927-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.4	0.0	960.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8150.6	0.0	8150.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	9111.0	0.0	9111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.3
10°-20°	290.8	3.2
20°-30°	449.7	4.9
30°-40°	816.0	9.0
40°-50°	1540.4	16.9
50°-60°	2225.7	24.4
60°-70°	2369.2	26.0
70°-80°	1255.5	13.8
80°-90°	41.2	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°	9111.0	100.0
0°-180°	9111.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949383

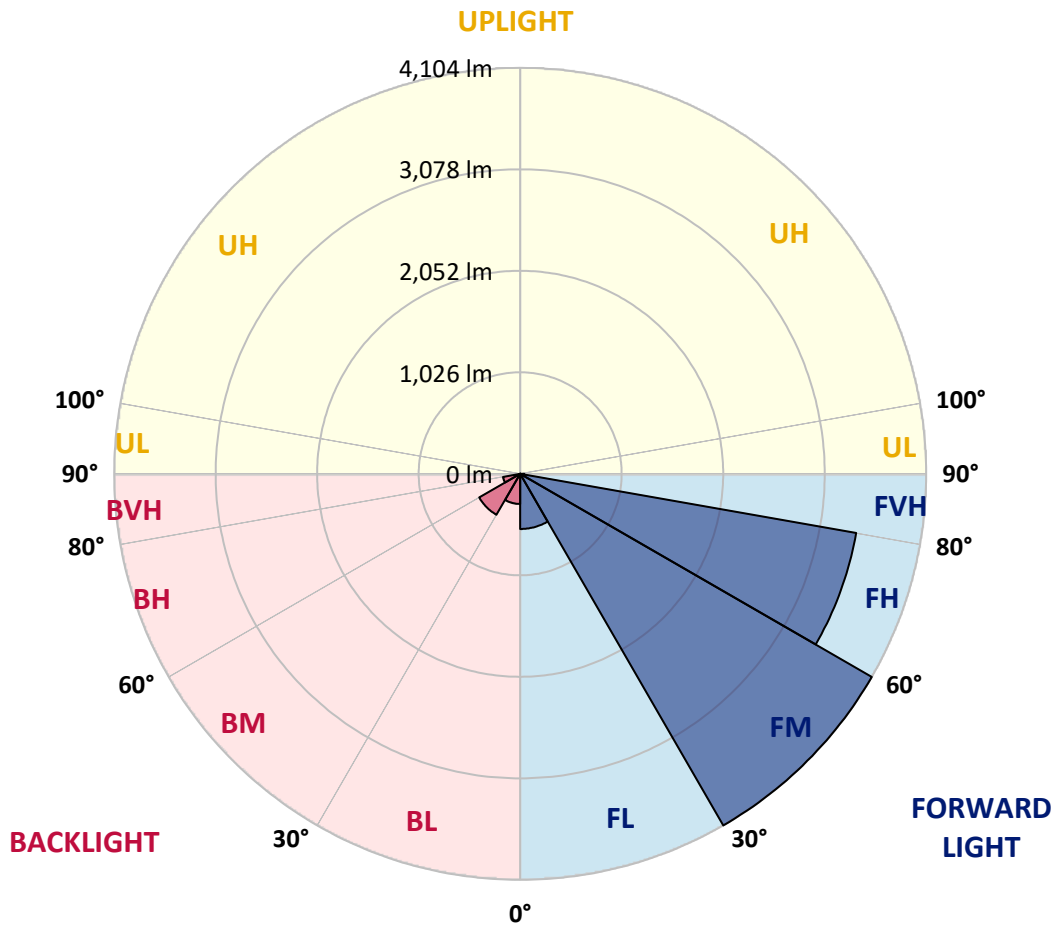
CATALOG NUMBER: GALN-SB4A-927-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.8	6.1			
FM (30°-60°)	4104.0	45.0			
FH (60°-80°)	3448.6	37.9			G2/5000
FVH (80°-90°)	40.1	0.4			G1/100
BL (0°-30°)	305.1	3.3	B1/500		
BM (30°-60°)	478.1	5.2	B1/1000		
BH (60°-80°)	176.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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 III Medium



REPORT NUMBER: P949383

CATALOG NUMBER: GALN-SB4A-927-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2
2.5°	1334.3	1346.4	1344.6	1352.7	1355.6	1367.1	1378.6	1394.1	1411.4	1410.8
5°	1258.9	1271.0	1273.9	1284.8	1298.6	1316.4	1340.0	1371.1	1403.3	1408.5
7.5°	1169.7	1182.4	1189.9	1211.7	1237.0	1273.9	1312.4	1357.9	1411.4	1418.8
10°	1080.5	1092.0	1101.8	1132.9	1173.2	1227.8	1290.5	1356.1	1428.1	1439.0
12.5°	1025.3	1036.2	1047.2	1074.2	1124.3	1191.0	1276.2	1364.2	1455.7	1471.2
15°	1005.7	1015.5	1024.1	1048.3	1094.9	1170.9	1273.3	1380.9	1490.8	1511.5
17.5°	1008.6	1013.8	1019.5	1038.0	1083.4	1161.7	1278.5	1409.6	1532.2	1550.6
20°	1025.3	1028.2	1028.8	1041.4	1081.7	1160.5	1288.8	1437.3	1571.3	1596.1
22.5°	1046.6	1047.7	1046.6	1055.2	1092.6	1169.1	1302.6	1470.6	1615.0	1638.1
25°	1146.1	1124.3	1096.6	1080.0	1111.0	1185.8	1323.3	1515.5	1662.8	1685.2
27.5°	1455.1	1392.4	1293.4	1182.4	1149.0	1210.0	1352.1	1561.0	1711.1	1731.3
30°	1956.8	1874.5	1706.5	1456.2	1271.0	1260.6	1389.5	1606.4	1762.3	1784.2
32.5°	2459.7	2439.5	2245.6	1899.3	1545.4	1373.4	1451.6	1668.0	1830.2	1847.5
35°	2968.3	2927.5	2768.7	2426.3	1968.3	1603.0	1555.2	1748.5	1919.4	1939.0
37.5°	3357.8	3333.1	3234.7	2952.8	2470.0	1957.4	1732.4	1873.4	2048.9	2070.7
40°	3701.9	3690.4	3657.0	3471.2	3031.0	2421.1	2008.0	2066.7	2228.4	2254.3
42.5°	3972.3	3999.4	4018.3	3966.6	3609.3	2950.5	2378.6	2338.3	2478.7	2505.1
45°	4249.1	4258.3	4334.8	4409.6	4183.5	3504.0	2796.3	2656.5	2789.9	2822.7
47.5°	4426.9	4463.7	4598.3	4730.1	4666.2	4052.9	3245.1	3032.2	3150.7	3212.3
50°	4440.1	4509.7	4695.0	4924.5	5017.8	4575.3	3733.0	3460.2	3586.2	3654.1
52.5°	4219.7	4327.9	4615.0	4951.0	5207.6	5017.8	4237.6	3888.3	4050.0	4138.6
55°	3235.3	3376.8	4314.1	4807.2	5215.1	5353.2	4728.9	4334.2	4566.7	4666.8
57.5°	2818.7	2890.1	3391.8	4557.5	5076.4	5488.4	5173.1	4758.8	5128.8	5253.1
60°	2345.2	2439.0	2844.6	4149.0	4888.3	5501.6	5565.5	5306.6	5738.1	5877.9
62.5°	1593.8	1695.6	2098.9	3447.0	4631.1	5495.3	5887.1	5870.4	6415.3	6565.5
65°	987.3	1051.2	1317.0	2814.7	4271.5	5502.2	6223.7	6555.1	7129.9	7282.4
67.5°	780.2	809.5	948.2	2161.1	3651.8	5346.9	6559.7	7199.0	7802.5	7923.4
70°	524.2	542.0	689.9	1448.8	2716.9	4630.0	6553.4	7522.3	8148.9	8209.3
72.5°	276.2	290.0	403.3	670.9	1640.9	3291.1	5524.1	7135.7	7804.3	7713.3
75°	138.1	161.1	271.6	340.6	700.8	1835.4	3430.3	5625.9	6142.6	5790.5
77.5°	104.7	126.6	224.4	224.4	244.0	617.9	1452.8	3068.4	2830.2	2356.7
80°	66.7	86.3	196.2	169.7	101.8	157.1	378.6	859.6	601.3	457.4
82.5°	39.1	56.4	163.4	112.2	57.0	58.1	107.0	183.0	155.9	121.4
85°	15.5	36.8	112.2	44.3	22.4	14.4	32.2	39.1	32.2	24.2
87.5°	0.0	8.6	19.6	0.0	1.7	1.2	2.3	2.9	2.9	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949383
 CATALOG NUMBER: GALN-SB4A-927-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1421.2	0°	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2
1422.3	2.5°	1427.5	1428.6	1432.1	1432.7	1424.6	1414.2	1410.2	1408.5	1401.6	1401.0
1431.5	5°	1444.7	1449.9	1444.7	1429.8	1394.1	1344.1	1306.1	1275.0	1246.8	1238.2
1463.2	7.5°	1479.3	1484.4	1468.9	1410.2	1320.5	1220.9	1131.2	1067.9	1010.9	989.6
1501.7	10°	1528.7	1535.6	1486.7	1368.2	1209.4	1049.5	897.6	790.6	707.1	673.2
1554.1	12.5°	1590.9	1593.8	1496.5	1304.4	1065.0	836.6	621.4	506.9	432.7	405.1
1617.4	15°	1659.4	1655.3	1497.7	1217.5	868.2	591.5	405.6	333.1	303.2	294.0
1680.6	17.5°	1731.3	1714.6	1474.7	1092.0	652.5	404.5	300.9	283.7	278.5	276.2
1743.4	20°	1802.0	1764.6	1432.7	928.1	468.3	302.1	273.3	268.1	265.2	264.1
1806.6	22.5°	1866.5	1802.6	1360.7	737.6	340.0	267.0	258.3	253.7	248.6	246.3
1868.2	25°	1929.2	1824.5	1259.5	559.8	272.1	249.7	242.8	234.2	227.3	224.4
1934.4	27.5°	1990.2	1838.3	1132.9	414.3	242.8	233.6	220.9	208.9	203.7	202.5
2005.1	30°	2055.2	1842.9	989.1	309.0	225.0	213.5	195.0	181.2	178.4	178.9
2100.7	32.5°	2134.6	1849.8	844.1	253.2	210.0	189.3	167.4	153.0	150.7	153.0
2239.9	35°	2229.5	1863.6	704.2	233.0	196.8	164.6	141.0	128.9	126.6	128.3
2418.3	37.5°	2358.4	1886.0	573.6	229.0	185.8	143.8	118.5	108.7	108.7	109.3
2636.9	40°	2529.9	1945.9	456.8	226.1	180.1	128.3	100.1	96.1	97.8	99.0
2915.4	42.5°	2738.7	2073.0	378.0	222.7	173.8	121.4	90.9	89.2	92.1	93.2
3249.1	45°	2972.9	2234.1	350.4	216.9	168.0	126.0	86.9	84.6	88.0	88.6
3623.1	47.5°	3215.1	2391.8	346.9	210.6	162.3	132.9	85.7	80.6	84.6	85.2
4022.4	50°	3460.2	2494.8	350.4	200.8	153.0	132.9	86.3	76.5	80.0	81.7
4436.6	52.5°	3707.1	2542.0	348.1	179.5	136.9	124.9	86.3	73.1	76.5	77.7
4884.3	55°	3946.4	2532.8	313.0	147.9	116.2	110.5	84.0	70.2	72.5	73.1
5307.2	57.5°	4135.7	2404.5	248.0	115.1	94.4	92.1	76.5	66.7	68.5	67.9
5695.0	60°	4234.7	2122.5	177.2	88.6	74.2	72.5	67.3	62.1	63.3	60.4
6023.5	62.5°	4235.8	1749.7	118.5	70.2	59.3	57.5	57.5	55.8	54.7	48.9
6277.8	65°	4145.5	1336.0	78.8	55.8	47.8	44.9	48.3	47.8	43.7	35.7
6355.5	67.5°	3940.7	875.7	59.8	43.7	36.8	35.1	38.5	40.3	37.4	29.9
6072.4	70°	3519.5	509.8	49.5	33.9	27.6	25.9	31.1	34.5	31.1	24.2
5190.4	72.5°	2923.4	275.0	40.3	25.3	19.0	17.3	24.7	28.2	24.7	17.8
3330.2	75°	1897.0	147.3	31.1	16.7	9.8	10.9	18.4	20.7	17.3	11.5
977.5	77.5°	636.9	65.0	19.6	8.1	4.6	4.6	10.9	12.7	8.1	4.0
177.8	80°	142.1	27.0	8.1	3.5	1.7	1.7	2.3	2.3	1.2	0.0
54.7	82.5°	46.6	10.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
13.8	85°	17.8	4.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	6.9	0.6	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>
1421.2
1402.2
1233.0
981.0
658.8
396.4
294.0
275.6
262.9
245.7
223.2
201.4
178.9
152.5
127.7
108.7
99.0
93.2
89.2
85.7
82.3
77.7
73.1
67.9
59.8
47.2
34.5
29.3
23.0
17.3
10.4
3.5
0.0
0.0
0.0
0.0
0.0

F REPORT)