

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: P946159

Luminaire Tested: **GALN-SB1D-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6159 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

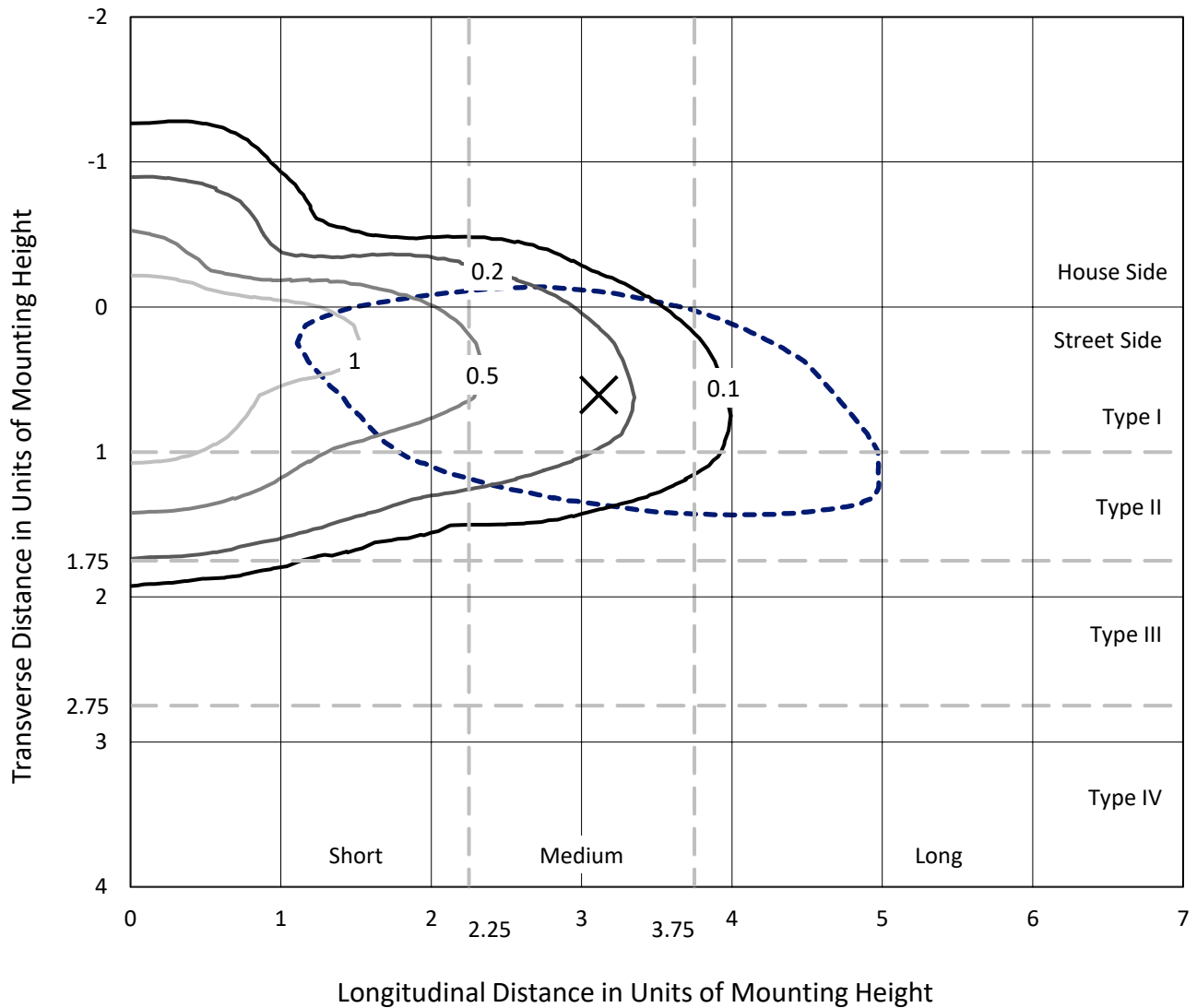
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946159
 CATALOG NUMBER: GALN-SB1D-927-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

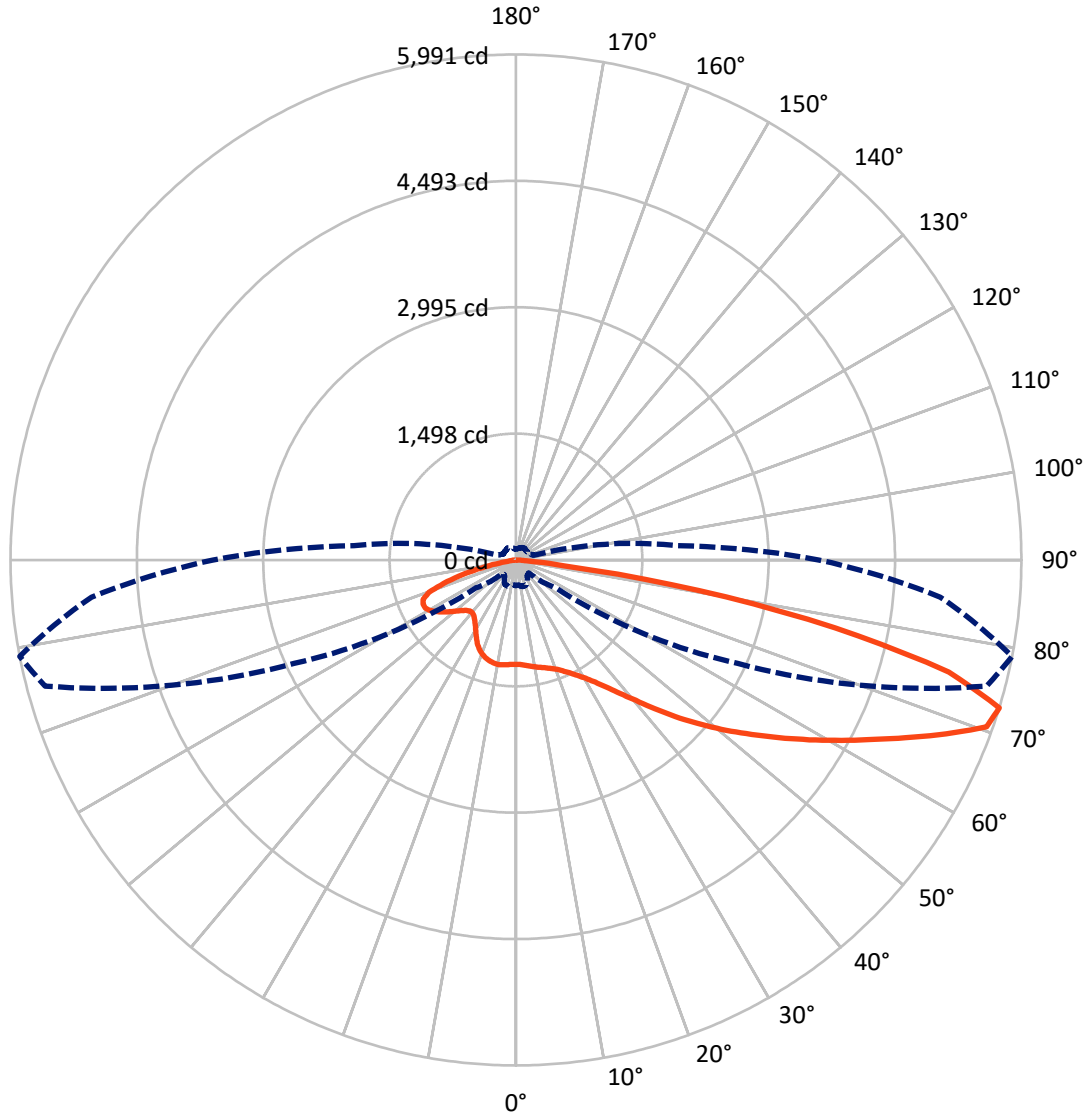
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

REPORT NUMBER: P946159
CATALOG NUMBER: GALN-SB1D-927-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P946159
 CATALOG NUMBER: GALN-SB1D-927-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.3	0.0	1355.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4803.7	0.0	4803.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	6159.0	0.0	6159.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	1.8
10°-20°	293.4	4.8
20°-30°	473.5	7.7
30°-40°	710.6	11.5
40°-50°	1008.0	16.4
50°-60°	1273.0	20.7
60°-70°	1292.9	21.0
70°-80°	881.2	14.3
80°-90°	114.3	1.9
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°	6159.0	100.0
0°-180°	6159.0	100.0

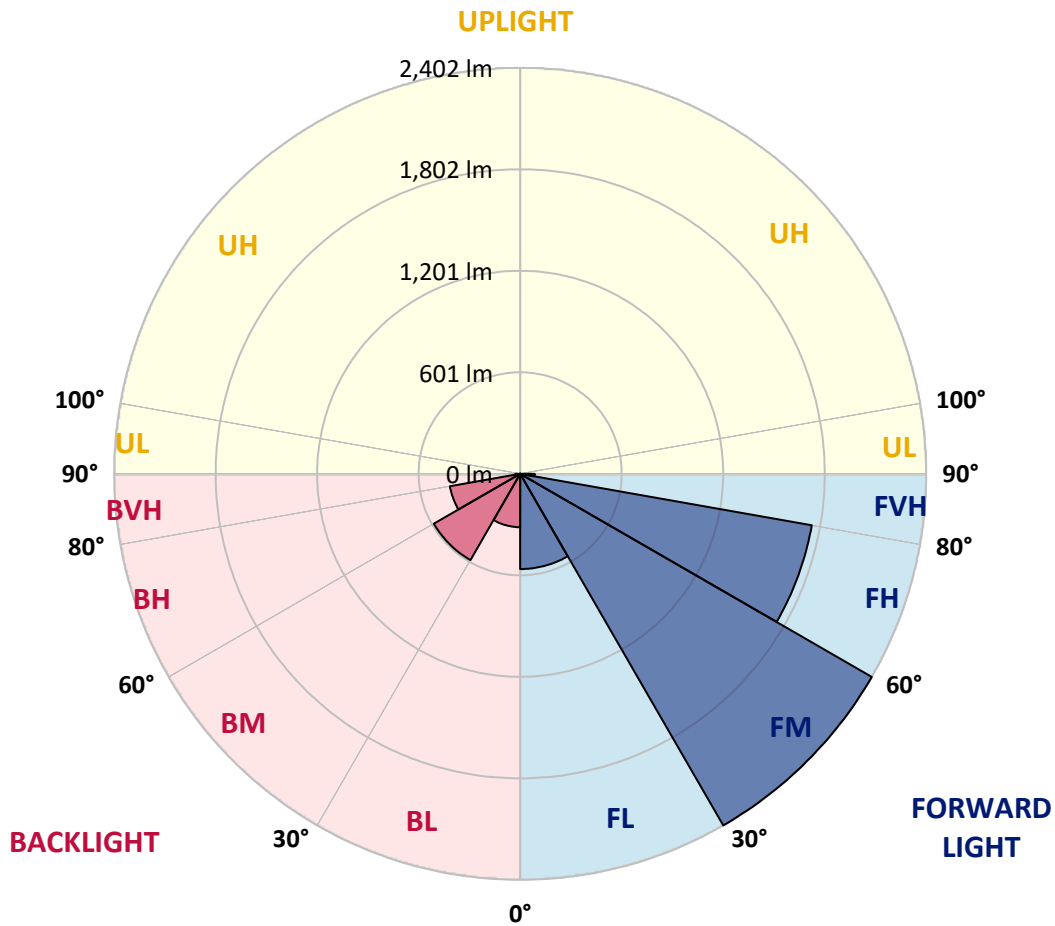


REPORT NUMBER: P946159
 CATALOG NUMBER: GALN-SB1D-927-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.4	9.1			
FM (30°-60°)	2402.1	39.0			
FH (60°-80°)	1752.0	28.4			G1/1800
FVH (80°-90°)	86.1	1.4			G1/100
BL (0°-30°)	315.7	5.1	B1/500		
BM (30°-60°)	589.4	9.6	B1/1000		
BH (60°-80°)	422.0	6.9	B1/500		G1/500
BVH (80°-90°)	28.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



REPORT NUMBER: P946159

CATALOG NUMBER: GALN-SB1D-927-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1237.0	1231.1	1234.7	1233.4	1235.1	1237.0	1237.7	1238.6	1241.9	1241.6
5°	1234.4	1228.5	1233.4	1231.8	1236.0	1240.6	1244.5	1248.1	1253.3	1255.6
7.5°	1228.9	1225.0	1229.8	1234.7	1242.6	1249.4	1254.9	1263.1	1270.6	1271.9
10°	1196.6	1193.7	1205.1	1217.8	1239.3	1257.9	1269.9	1279.4	1287.5	1288.8
12.5°	1163.1	1159.5	1172.2	1189.4	1224.3	1257.9	1283.3	1295.7	1302.8	1307.1
15°	1157.5	1154.6	1161.8	1176.7	1205.7	1249.1	1292.4	1315.2	1321.4	1326.3
17.5°	1184.2	1178.7	1181.6	1186.8	1203.8	1240.9	1299.6	1337.4	1346.8	1352.0
20°	1246.1	1238.3	1233.8	1223.3	1220.4	1242.2	1298.9	1364.1	1376.4	1383.0
22.5°	1328.6	1323.3	1313.6	1287.2	1258.5	1258.2	1311.3	1398.3	1421.4	1427.6
25°	1428.2	1420.4	1408.1	1372.2	1317.2	1289.8	1332.1	1441.9	1480.7	1482.3
27.5°	1542.9	1531.2	1514.3	1467.0	1392.7	1339.3	1364.1	1492.1	1548.8	1548.1
30°	1663.8	1652.1	1634.1	1576.8	1483.3	1406.1	1408.4	1546.2	1629.6	1626.0
32.5°	1752.1	1743.3	1739.7	1695.4	1587.6	1484.9	1459.2	1606.1	1729.3	1726.0
35°	1819.8	1808.4	1812.7	1790.2	1701.3	1573.2	1521.4	1677.5	1850.5	1850.1
37.5°	1887.0	1876.9	1880.4	1865.5	1806.5	1685.3	1597.3	1764.8	2000.7	2007.8
40°	1948.2	1937.5	1951.8	1937.8	1888.3	1804.5	1683.7	1863.5	2174.6	2188.3
42.5°	1985.0	1976.5	2000.3	2000.7	1959.3	1905.2	1778.5	1972.3	2376.0	2406.6
45°	1997.7	1994.8	2030.6	2038.1	2022.2	1963.5	1863.8	2090.9	2592.9	2647.7
47.5°	1984.0	1978.5	2028.0	2055.7	2068.4	1990.9	1934.5	2219.3	2814.5	2894.6
50°	1915.0	1904.2	1977.9	2036.2	2081.5	2008.8	2005.9	2367.5	3066.3	3153.9
52.5°	1790.8	1782.7	1866.4	1967.8	2052.8	2017.6	2086.0	2529.4	3305.4	3418.8
55°	1632.2	1621.4	1713.6	1845.9	1981.4	2014.7	2166.2	2710.5	3587.6	3702.6
57.5°	1380.7	1359.2	1475.8	1632.2	1865.1	2011.1	2249.6	2890.7	3874.3	4012.1
60°	1013.8	981.9	1124.9	1310.3	1637.7	1976.2	2352.8	3092.7	4218.3	4342.4
62.5°	590.3	571.8	665.3	838.2	1234.4	1771.0	2410.8	3327.6	4556.5	4686.8
65°	458.4	453.2	461.3	474.7	687.1	1326.0	2232.0	3556.6	4986.5	5077.7
67.5°	419.3	415.4	419.0	393.9	348.6	738.6	1765.8	3614.6	5447.2	5502.5
70°	372.7	368.1	379.9	358.4	274.3	335.9	1140.9	3404.1	5813.7	5917.6
72.5°	303.6	298.4	325.8	316.0	231.0	215.7	573.1	2904.1	5775.2	5990.9
75°	233.3	230.3	262.9	271.1	188.3	169.7	275.0	2158.7	5082.3	5299.6
77.5°	181.1	178.9	195.5	225.1	151.8	131.6	169.1	1369.3	3829.9	3868.1
80°	135.9	129.3	144.6	174.3	118.3	96.1	114.7	798.5	2420.9	2194.5
82.5°	85.0	81.8	94.5	116.3	83.4	66.1	74.6	441.1	970.2	571.4
85°	48.5	47.2	51.5	66.5	45.3	38.1	42.7	194.8	177.2	121.8
87.5°	19.5	18.9	23.5	29.6	16.6	14.0	15.0	46.9	39.1	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946159
 CATALOG NUMBER: GALN-SB1D-927-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1236.4	0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
1241.2	2.5°	1239.9	1239.9	1235.4	1228.2	1220.1	1214.9	1206.4	1204.1	1195.3	1192.7
1252.3	5°	1254.9	1252.3	1238.3	1218.1	1190.4	1165.0	1137.0	1119.4	1094.6	1085.8
1274.2	7.5°	1273.8	1266.7	1242.6	1198.2	1140.3	1083.2	1023.9	979.0	936.0	920.7
1292.1	10°	1291.1	1281.0	1239.9	1162.4	1062.1	963.4	868.9	802.7	752.6	732.0
1311.9	12.5°	1308.4	1289.8	1222.7	1102.8	951.0	817.1	716.4	664.9	634.0	609.2
1328.2	15°	1324.6	1298.6	1196.0	1023.0	829.1	693.3	619.0	577.9	553.2	536.9
1352.0	17.5°	1343.5	1306.1	1155.9	921.7	713.1	607.6	547.0	522.2	517.3	515.4
1384.6	20°	1369.9	1312.9	1103.1	808.3	627.8	539.2	507.9	505.6	505.3	504.3
1423.7	22.5°	1398.3	1321.1	1033.4	705.3	555.1	496.5	491.0	486.4	483.5	483.1
1470.9	25°	1431.8	1323.7	946.1	620.9	493.2	476.3	469.8	462.9	461.0	461.0
1524.7	27.5°	1464.4	1314.9	844.4	547.6	458.4	457.7	449.3	447.0	446.7	447.6
1585.9	30°	1497.0	1298.3	743.4	479.9	438.2	438.2	435.3	436.9	438.2	441.4
1670.0	32.5°	1541.0	1280.7	659.1	429.7	420.6	417.3	420.3	423.5	424.8	429.1
1780.4	35°	1605.5	1268.3	592.0	402.3	402.3	398.1	399.7	399.1	396.2	394.2
1914.0	37.5°	1690.8	1267.6	536.6	389.6	387.0	386.4	386.7	382.5	371.1	357.4
2075.6	40°	1793.5	1285.2	493.9	380.8	378.9	382.8	380.8	369.4	338.2	314.4
2274.3	42.5°	1931.3	1335.4	466.5	370.1	376.0	380.8	373.0	333.6	312.4	296.5
2500.7	45°	2093.5	1416.8	452.5	358.7	370.4	376.3	338.5	321.2	304.3	285.1
2747.7	47.5°	2277.2	1519.5	449.3	347.9	358.0	361.6	323.8	316.0	296.8	275.9
2995.9	50°	2477.3	1641.0	458.1	335.2	340.1	327.7	318.9	311.8	291.9	271.4
3250.4	52.5°	2684.2	1774.9	475.6	318.0	322.2	308.5	317.0	310.8	289.0	261.3
3513.3	55°	2887.4	1909.8	492.6	297.8	304.0	291.3	311.5	306.9	275.6	244.3
3793.8	57.5°	3094.0	2044.0	509.2	279.9	286.4	274.6	302.7	296.5	260.6	228.7
4100.0	60°	3308.7	2174.3	517.0	262.6	267.1	259.3	289.3	278.5	243.7	212.7
4401.1	62.5°	3509.7	2282.8	504.3	245.3	248.2	245.0	271.7	257.4	226.7	194.8
4714.8	65°	3711.4	2347.3	465.2	228.4	229.0	227.4	246.9	234.6	206.9	179.2
4989.4	67.5°	3894.1	2383.5	403.0	210.1	208.5	207.9	223.8	209.8	187.7	163.5
5198.3	70°	3932.9	2291.6	307.9	188.6	188.6	187.0	198.4	184.1	166.5	146.9
5048.7	72.5°	3592.1	1927.7	218.6	164.2	166.8	163.5	173.0	160.9	145.0	131.9
4351.2	75°	2896.6	1413.6	159.0	139.1	143.7	138.1	146.9	138.5	124.8	124.5
2998.5	77.5°	1990.2	874.1	115.3	114.7	117.9	110.8	120.9	116.3	103.9	98.4
1305.1	80°	849.3	348.6	84.1	88.6	88.6	82.1	93.8	95.1	84.4	81.8
251.8	82.5°	169.1	99.0	59.0	60.9	57.3	55.4	66.5	73.6	101.6	113.0
75.9	85°	50.8	36.5	35.5	33.2	29.3	29.6	39.1	74.0	91.2	52.1
25.1	87.5°	14.0	9.1	9.4	7.5	6.2	8.1	13.4	56.0	30.6	13.0
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>
1236.4
1196.9
1092.4
922.6
736.6
617.4
539.8
516.7
507.6
486.7
462.9
450.2
443.7
432.6
398.8
357.7
313.7
295.8
283.8
274.3
269.1
259.3
242.7
228.1
211.8
194.5
177.2
161.6
146.3
128.0
112.1
92.2
81.8
113.4
45.0
11.1
0.0

F REPORT)