

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: P940149

Luminaire Tested: **GALN-SB3A-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11567 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

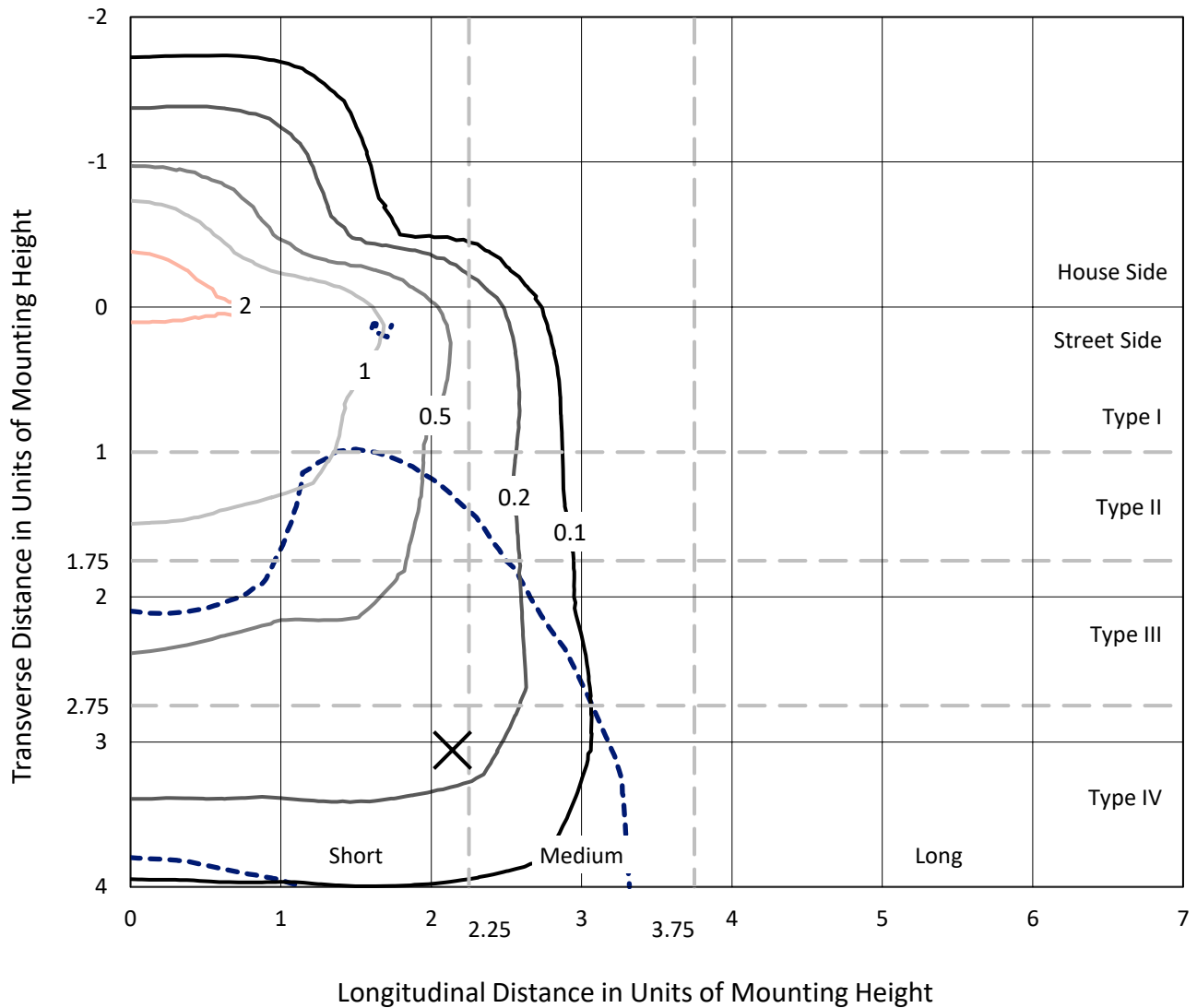
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940149
 CATALOG NUMBER: GALN-SB3A-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

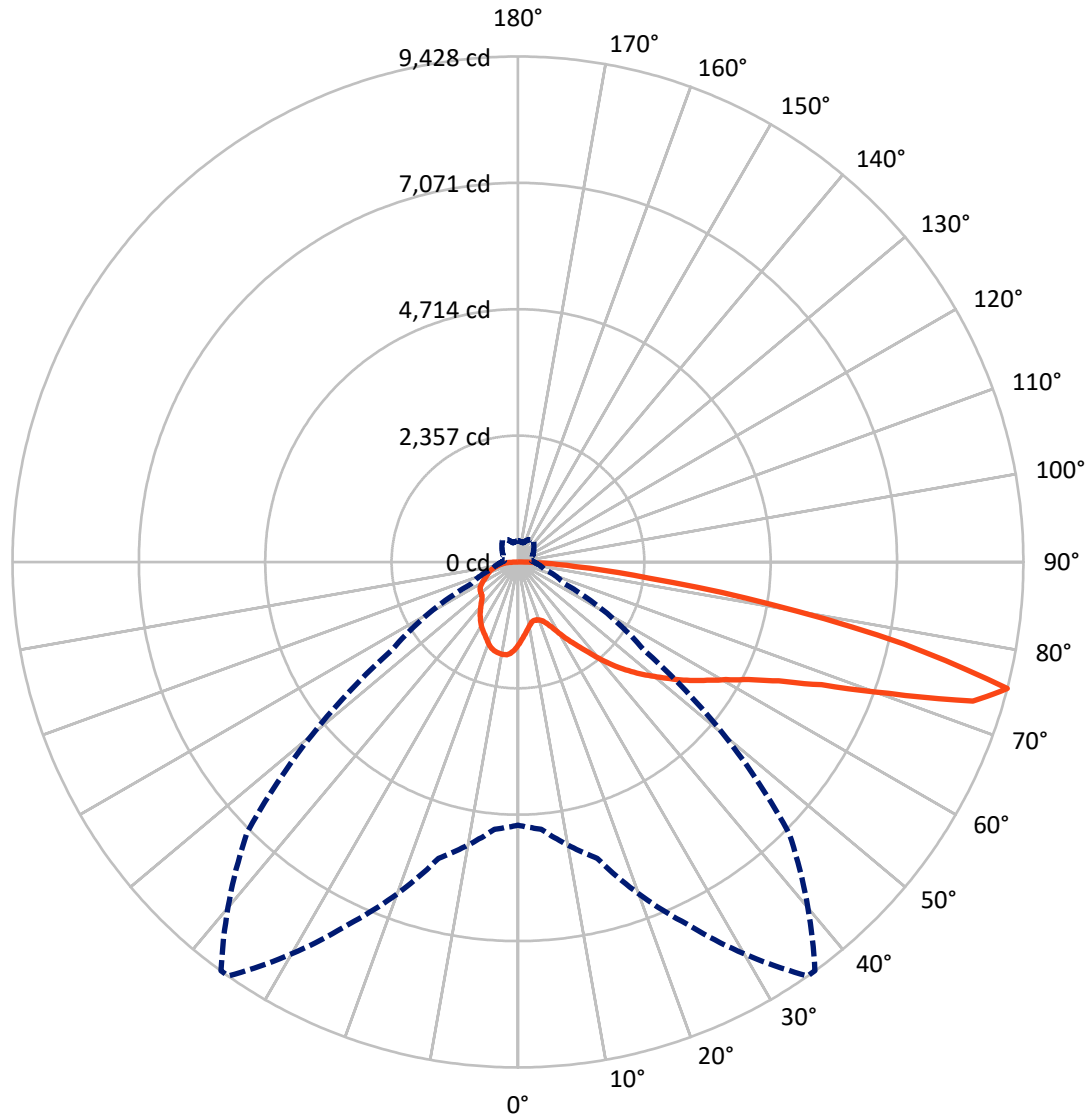
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P940149
CATALOG NUMBER: GALN-SB3A-827-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P940149
 CATALOG NUMBER: GALN-SB3A-827-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2752.6	0.0	2752.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8814.3	0.0	8814.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	11567.0	0.0	11567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.3
10°-20°	420.9	3.6
20°-30°	706.9	6.1
30°-40°	1098.6	9.5
40°-50°	1630.6	14.1
50°-60°	2251.2	19.5
60°-70°	2731.2	23.6
70°-80°	2257.1	19.5
80°-90°	324.6	2.8
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°	11567.0	100.0
0°-180°	11567.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940149

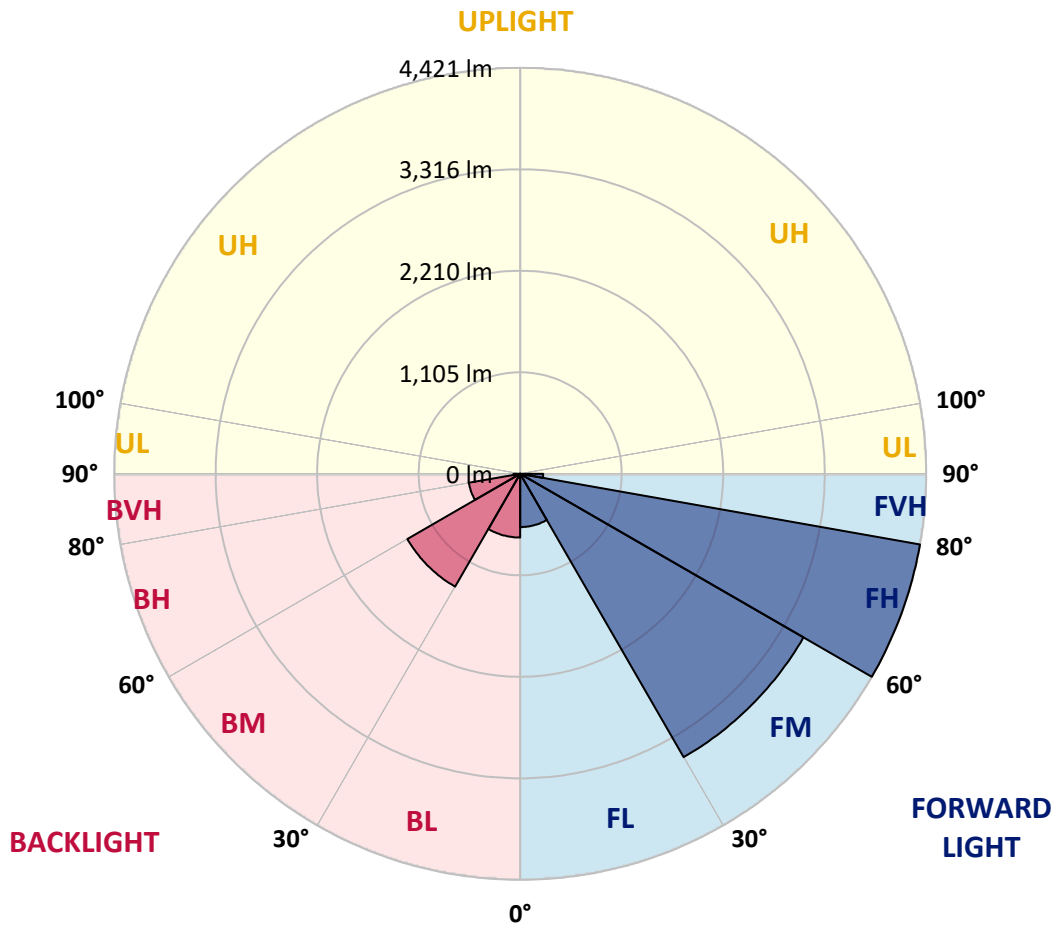
CATALOG NUMBER: GALN-SB3A-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.1	5.0			
FM (30°-60°)	3562.0	30.8			
FH (60°-80°)	4420.7	38.2			G2/5000
FVH (80°-90°)	251.5	2.2			G3/500
BL (0°-30°)	693.7	6.0	B2/1000		
BM (30°-60°)	1418.3	12.3	B2/2500		
BH (60°-80°)	567.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	73.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P940149
 CATALOG NUMBER: GALN-SB3A-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1421.3	1430.1	1433.8	1432.0	1441.3	1440.1	1453.2	1469.5	1492.0	1513.9
5°	1311.9	1321.3	1329.4	1336.9	1355.0	1360.7	1381.3	1412.6	1453.8	1495.7
7.5°	1210.0	1218.1	1230.6	1244.4	1275.0	1280.6	1315.0	1363.8	1421.3	1482.6
10°	1126.8	1134.9	1148.1	1163.7	1201.8	1208.7	1252.5	1317.5	1392.6	1470.1
12.5°	1091.2	1093.7	1101.2	1116.8	1149.9	1154.3	1202.5	1276.9	1364.4	1460.7
15°	1089.3	1094.3	1094.9	1103.0	1130.6	1132.4	1176.8	1250.6	1346.9	1458.8
17.5°	1108.0	1111.8	1106.2	1111.2	1134.3	1137.4	1172.5	1238.1	1341.3	1467.0
20°	1158.1	1161.2	1144.3	1137.4	1154.3	1156.8	1191.2	1246.2	1346.9	1483.9
22.5°	1264.4	1266.2	1225.0	1196.8	1198.1	1199.3	1229.4	1279.4	1368.8	1514.5
25°	1430.1	1428.8	1363.2	1308.8	1277.5	1270.6	1290.6	1333.2	1405.7	1555.1
27.5°	1623.9	1614.5	1548.9	1467.6	1399.4	1389.4	1385.1	1403.2	1458.2	1608.9
30°	1842.8	1834.0	1763.4	1657.1	1562.6	1546.4	1505.1	1495.7	1536.4	1682.1
32.5°	2082.9	2077.3	1992.9	1864.0	1737.7	1719.0	1649.6	1624.5	1656.4	1792.8
35°	2284.2	2279.2	2209.2	2076.6	1922.2	1899.1	1828.4	1800.3	1816.5	1934.7
37.5°	2466.2	2463.7	2403.7	2299.3	2139.8	2111.7	2032.2	2022.9	2019.7	2121.7
40°	2635.0	2628.8	2566.3	2511.2	2393.0	2367.4	2297.4	2289.2	2265.5	2351.8
42.5°	2822.0	2805.8	2715.1	2689.4	2657.6	2636.3	2594.4	2595.6	2543.1	2611.3
45°	2974.6	2965.2	2872.0	2857.0	2891.4	2882.7	2918.9	2928.3	2826.4	2883.3
47.5°	3138.4	3129.7	3050.9	3040.2	3133.4	3135.9	3264.1	3267.2	3102.8	3165.9
50°	3340.4	3327.9	3249.7	3262.9	3367.3	3376.7	3611.1	3589.9	3357.3	3452.9
52.5°	3473.6	3481.1	3464.2	3485.5	3628.0	3636.8	3952.6	3898.2	3609.3	3736.2
55°	3571.8	3586.8	3639.3	3688.1	3903.2	3911.9	4274.6	4191.4	3818.1	3998.8
57.5°	3698.1	3676.8	3775.0	3870.0	4164.5	4187.7	4587.9	4474.1	4003.2	4225.2
60°	3879.4	3864.4	3940.7	4081.4	4457.2	4494.1	4919.3	4728.6	4138.9	4404.7
62.5°	4247.1	4209.6	4221.4	4345.9	4826.1	4874.9	5293.2	4950.6	4206.4	4474.7
65°	4796.7	4732.3	4672.3	4758.6	5345.7	5393.9	5715.3	5125.0	4181.4	4339.0
67.5°	5488.9	5425.2	5351.4	5432.7	6111.1	6149.3	6236.2	5223.2	3984.5	3816.2
70°	6059.8	6036.1	6124.3	6458.8	7333.6	7334.8	6904.0	5141.9	3444.8	2705.7
72.5°	5984.2	5969.8	6434.4	7468.7	8874.4	8841.2	7536.2	4526.6	2320.5	1220.6
75°	4909.3	5002.5	5722.2	7450.5	9427.7	9423.4	7149.1	2877.7	959.8	505.9
77.5°	2632.5	2780.1	3714.9	5500.8	7359.9	7470.5	5026.2	1006.7	412.1	323.9
80°	858.5	987.4	1480.7	2800.7	4782.3	4761.7	2154.2	395.2	282.0	229.5
82.5°	364.6	379.6	661.6	1322.5	2454.3	2416.2	686.0	227.0	198.2	157.0
85°	142.6	159.5	292.0	611.5	1063.0	1039.9	247.6	112.6	126.9	102.6
87.5°	46.9	56.9	104.4	209.5	330.8	318.9	60.7	38.8	55.0	46.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940149
 CATALOG NUMBER: GALN-SB3A-827-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1541.4	0°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
1545.8	2.5°	1554.5	1564.5	1576.4	1593.9	1608.9	1621.4	1634.6	1642.7	1645.8	1655.2
1548.3	5°	1565.8	1587.7	1617.0	1645.8	1673.9	1690.8	1705.8	1713.3	1720.2	1725.2
1555.1	7.5°	1584.5	1612.7	1658.9	1696.5	1720.2	1734.0	1744.0	1741.5	1744.0	1745.2
1562.6	10°	1600.8	1640.2	1695.2	1730.8	1749.0	1749.6	1747.1	1738.4	1734.0	1734.6
1573.9	12.5°	1620.2	1663.9	1723.3	1753.4	1758.4	1744.6	1734.0	1719.0	1713.3	1710.8
1590.8	15°	1646.4	1696.5	1754.0	1765.2	1752.7	1735.2	1717.1	1692.7	1680.2	1670.2
1619.5	17.5°	1678.3	1733.4	1777.7	1769.6	1742.7	1714.0	1684.6	1647.7	1622.0	1611.4
1658.9	20°	1722.7	1772.1	1795.9	1760.2	1719.6	1675.8	1625.8	1580.8	1557.0	1546.4
1709.0	22.5°	1776.5	1824.0	1813.4	1744.0	1686.5	1616.4	1553.9	1520.7	1508.9	1501.4
1773.4	25°	1840.9	1881.5	1825.9	1720.2	1632.1	1537.6	1489.5	1478.9	1473.2	1467.6
1852.2	27.5°	1924.7	1946.6	1835.3	1685.2	1547.0	1453.8	1436.3	1438.2	1436.3	1426.9
1961.6	30°	2035.4	2031.0	1844.0	1628.3	1449.5	1378.2	1379.4	1387.6	1388.8	1382.6
2114.2	32.5°	2181.1	2136.7	1848.4	1554.5	1356.3	1311.9	1313.1	1321.9	1328.2	1317.5
2313.6	35°	2357.4	2259.9	1841.5	1462.0	1284.4	1248.7	1239.4	1241.9	1243.7	1233.7
2555.6	37.5°	2563.1	2398.1	1810.9	1359.4	1225.0	1186.8	1166.8	1149.9	1139.9	1130.6
2829.5	40°	2788.9	2548.8	1754.6	1259.4	1158.7	1121.2	1091.2	1059.3	1025.5	1013.0
3119.7	42.5°	3025.2	2703.8	1686.5	1163.7	1082.4	1051.8	1019.9	973.6	923.0	897.3
3421.1	45°	3270.4	2862.7	1619.5	1069.3	1004.2	991.1	954.2	898.6	843.5	811.0
3723.1	47.5°	3510.5	3012.7	1521.4	974.2	931.1	945.5	916.7	865.4	804.1	752.9
4022.6	50°	3740.0	3153.4	1360.7	877.9	871.7	931.7	904.2	830.4	760.4	694.7
4316.5	52.5°	3967.6	3267.2	1154.9	790.4	839.8	928.0	887.9	806.6	721.0	652.2
4592.9	55°	4160.8	3326.0	956.7	715.4	793.5	896.1	868.6	778.5	665.3	592.2
4782.3	57.5°	4270.8	3278.5	791.6	641.6	729.7	843.5	835.4	718.5	599.0	542.8
4819.2	60°	4223.3	3085.9	656.6	577.2	669.1	786.6	777.9	659.1	548.4	495.2
4621.6	62.5°	3961.3	2718.8	549.6	520.9	614.1	728.5	720.4	613.4	509.6	458.3
4097.0	65°	3433.6	2211.7	466.5	474.0	558.4	658.4	670.3	575.3	479.0	429.0
3169.7	67.5°	2618.8	1602.0	401.4	433.3	504.0	589.7	624.1	547.8	453.3	405.8
1834.0	70°	1492.6	909.8	346.4	393.9	455.8	525.9	588.4	525.9	425.8	386.4
687.2	72.5°	565.9	417.7	299.5	354.5	409.6	472.1	549.0	491.5	393.9	364.6
355.2	75°	302.0	254.5	252.0	308.3	356.4	419.6	499.6	457.7	370.2	385.2
245.7	77.5°	205.7	180.1	210.7	263.9	298.3	361.4	447.1	406.4	320.8	319.5
170.1	80°	142.6	127.6	171.3	212.6	230.7	303.9	390.2	348.9	261.4	243.9
105.1	82.5°	85.7	83.2	128.2	158.8	163.2	234.5	323.3	292.6	213.9	186.3
62.5	85°	46.9	49.4	81.9	93.2	95.0	163.8	253.2	226.4	164.5	138.2
22.5	87.5°	13.1	16.9	30.0	36.9	45.6	85.0	150.7	134.4	82.5	57.5
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>
1541.4
1654.6
1726.5
1747.1
1735.9
1709.6
1673.3
1612.0
1545.1
1502.6
1467.6
1428.8
1385.7
1322.5
1240.6
1136.8
1018.6
900.4
808.5
747.2
689.1
644.7
585.9
535.3
487.7
450.2
420.8
398.3
381.4
359.6
397.7
294.5
233.2
187.6
139.4
57.5
0.0

F REPORT)