

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: P940029

Luminaire Tested: **GALN-SB2D-927-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940029  
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-SB2D-927-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

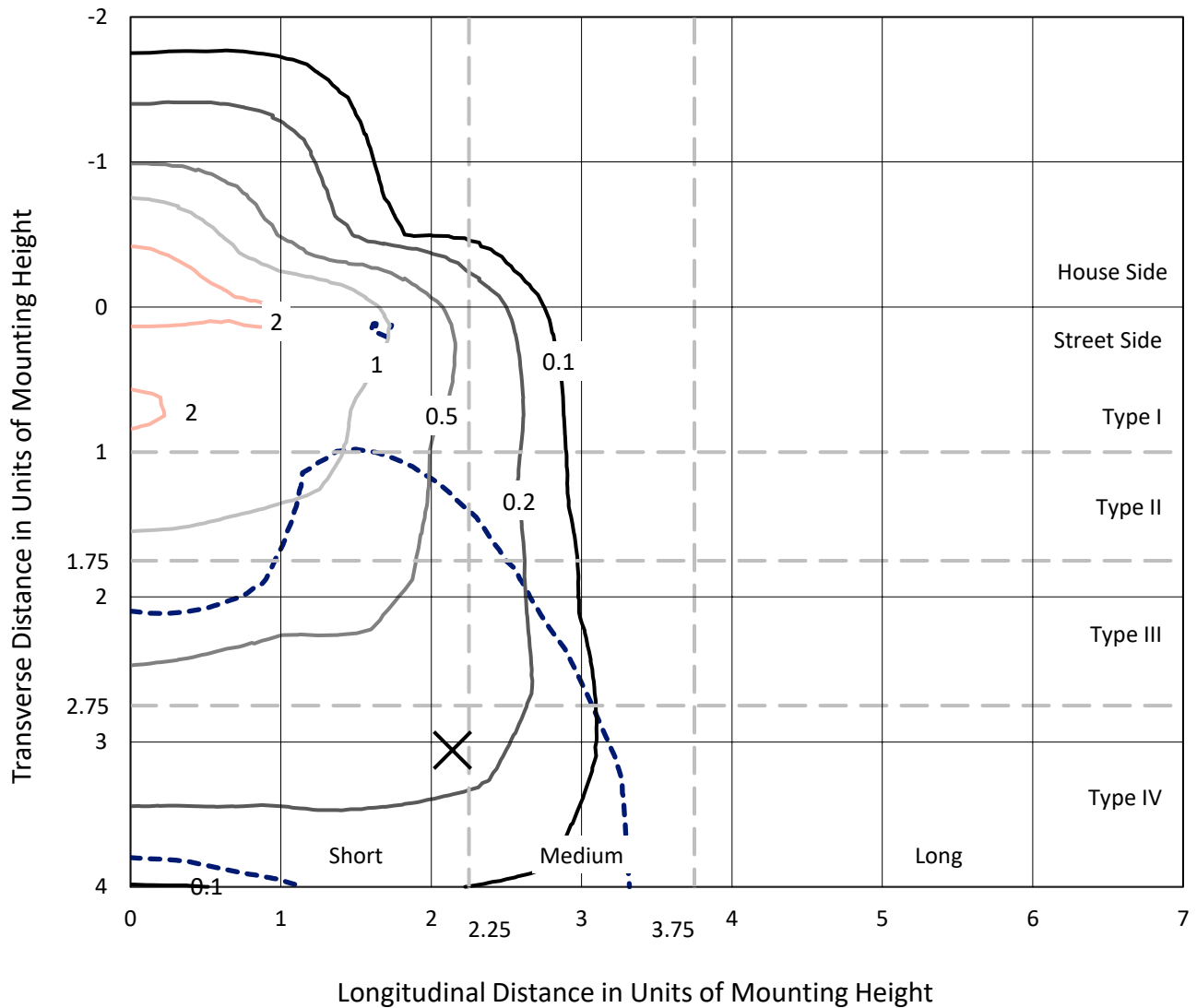
Lumens per Lamp: N/A  
Luminaire Lumens: 12243 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P940029  
 CATALOG NUMBER: GALN-SB2D-927-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

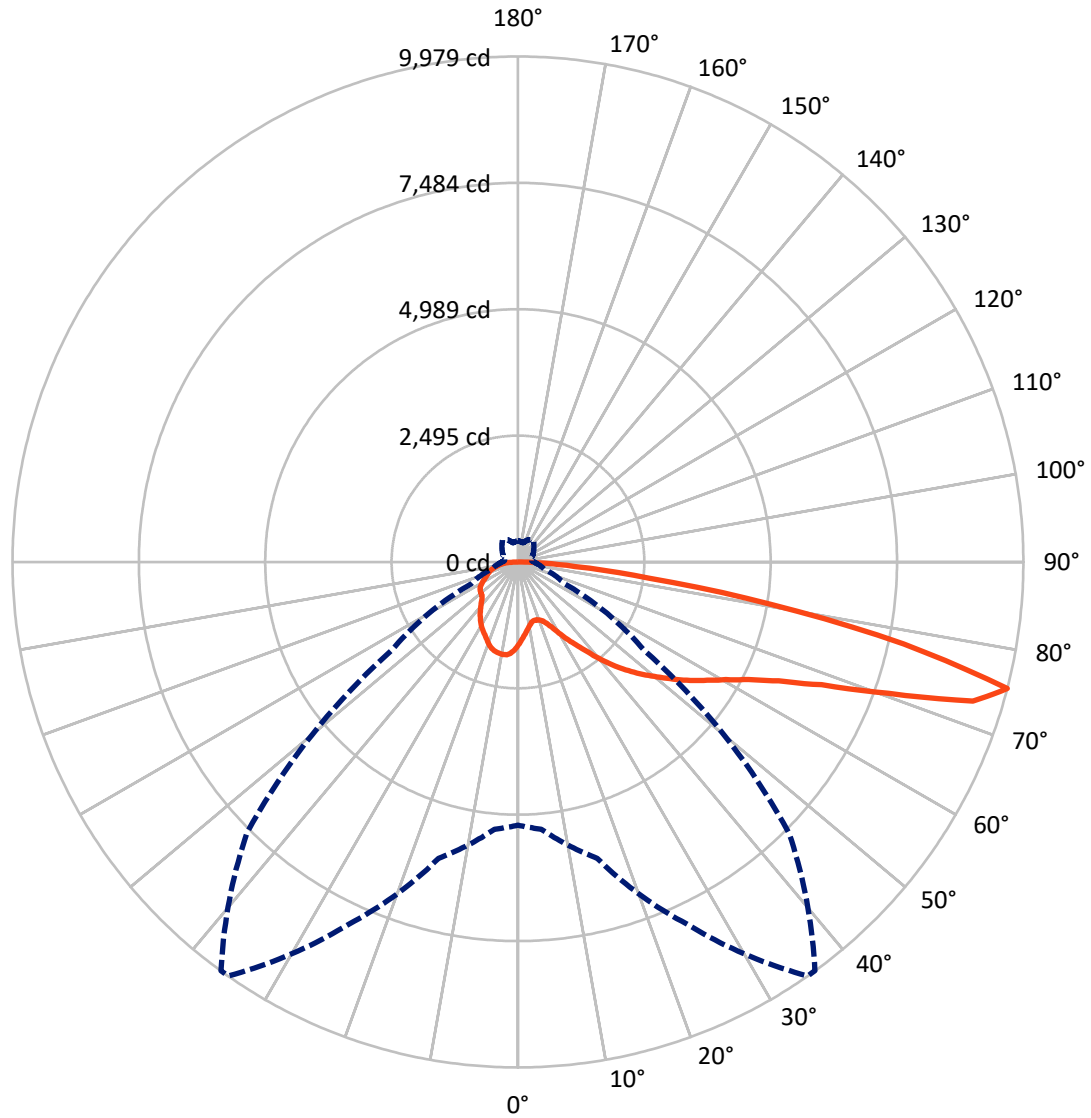
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P940029  
CATALOG NUMBER: GALN-SB2D-927-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P940029  
 CATALOG NUMBER: GALN-SB2D-927-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2913.5	0.0	2913.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	9329.5	0.0	9329.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	12243.0	0.0	12243.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	1.3
10°-20°	445.6	3.6
20°-30°	748.2	6.1
30°-40°	1162.8	9.5
40°-50°	1725.9	14.1
50°-60°	2382.7	19.5
60°-70°	2890.8	23.6
70°-80°	2389.0	19.5
80°-90°	343.6	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°	12243.0	100.0
0°-180°	12243.0	100.0



REPORT NUMBER: P940029

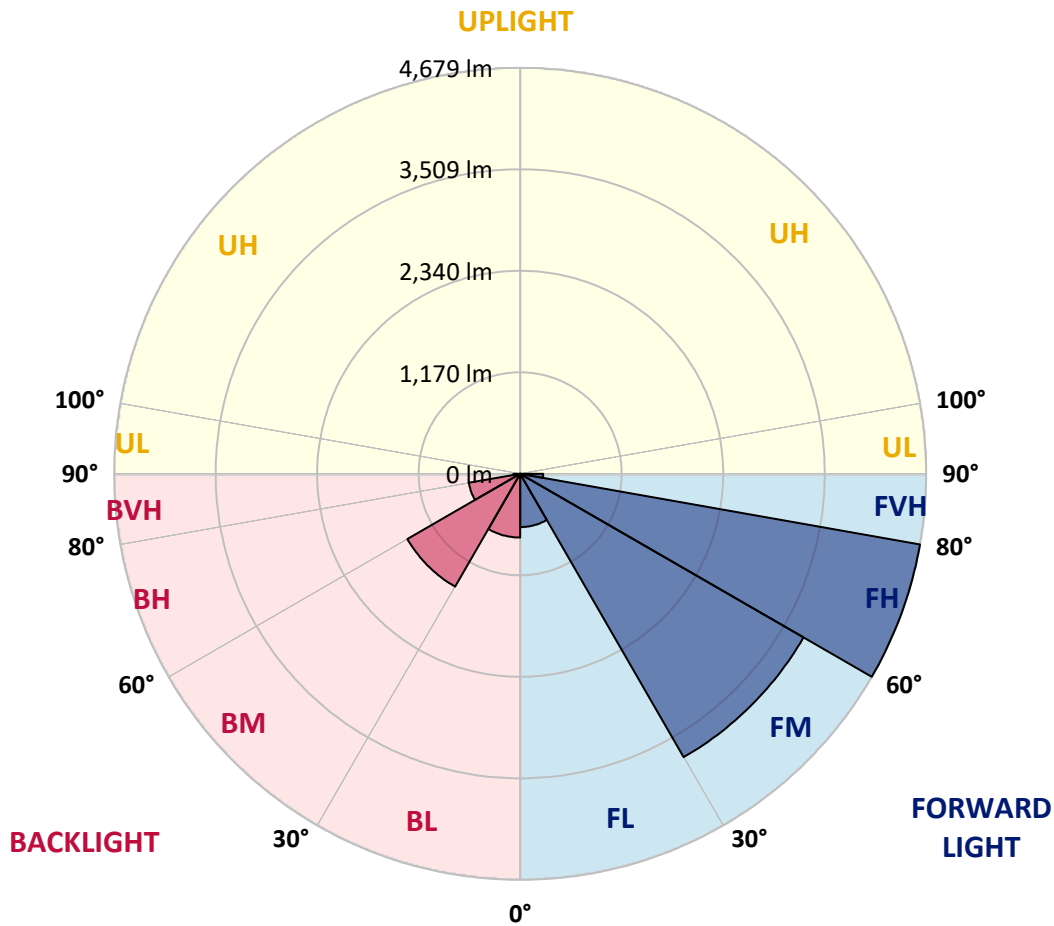
CATALOG NUMBER: GALN-SB2D-927-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.0	5.0			
FM (30°-60°)	3770.2	30.8			
FH (60°-80°)	4679.1	38.2			G2/5000
FVH (80°-90°)	266.2	2.2			G3/500
BL (0°-30°)	734.2	6.0	B2/1000		
BM (30°-60°)	1501.2	12.3	B2/2500		
BH (60°-80°)	600.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	77.4	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: P940029

CATALOG NUMBER: GALN-SB2D-927-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5
2.5°	1504.4	1513.7	1517.6	1515.6	1525.6	1524.2	1538.1	1555.3	1579.2	1602.3
5°	1388.6	1398.5	1407.1	1415.0	1434.2	1440.2	1462.0	1495.1	1538.8	1583.1
7.5°	1280.7	1289.3	1302.5	1317.1	1349.5	1355.5	1391.9	1443.5	1504.4	1569.2
10°	1192.7	1201.3	1215.2	1231.7	1272.1	1279.4	1325.7	1394.5	1473.9	1556.0
12.5°	1154.9	1157.6	1165.5	1182.1	1217.1	1221.8	1272.7	1351.5	1444.2	1546.1
15°	1152.9	1158.2	1158.9	1167.5	1196.6	1198.6	1245.6	1323.7	1425.6	1544.1
17.5°	1172.8	1176.8	1170.8	1176.1	1200.6	1203.9	1241.0	1310.5	1419.7	1552.7
20°	1225.7	1229.1	1211.2	1203.9	1221.8	1224.4	1260.8	1319.1	1425.6	1570.6
22.5°	1338.3	1340.2	1296.6	1266.8	1268.1	1269.4	1301.2	1354.1	1448.8	1603.0
25°	1513.7	1512.3	1442.8	1385.3	1352.2	1344.9	1366.1	1411.1	1487.8	1646.0
27.5°	1718.8	1708.9	1639.4	1553.4	1481.2	1470.6	1466.0	1485.2	1543.4	1702.9
30°	1950.5	1941.2	1866.4	1753.9	1654.0	1636.8	1593.1	1583.1	1626.2	1780.4
32.5°	2204.6	2198.7	2109.3	1973.0	1839.3	1819.4	1746.0	1719.5	1753.2	1897.5
35°	2417.7	2412.4	2338.3	2198.0	2034.5	2010.0	1935.3	1905.5	1922.7	2047.8
37.5°	2610.3	2607.7	2544.2	2433.6	2264.9	2235.1	2151.0	2141.1	2137.8	2245.7
40°	2789.0	2782.4	2716.2	2658.0	2532.9	2505.8	2431.6	2423.0	2397.9	2489.2
42.5°	2986.9	2969.7	2873.8	2846.6	2812.9	2790.4	2746.0	2747.3	2691.7	2763.9
45°	3148.4	3138.5	3039.9	3024.0	3060.4	3051.1	3089.5	3099.4	2991.6	3051.8
47.5°	3321.8	3312.6	3229.2	3217.9	3316.5	3319.2	3454.9	3458.2	3284.1	3351.0
50°	3535.6	3522.4	3439.6	3453.5	3564.1	3574.0	3822.2	3799.7	3553.5	3654.7
52.5°	3676.6	3684.5	3666.7	3689.2	3840.1	3849.3	4183.6	4126.0	3820.2	3954.6
55°	3780.5	3796.4	3852.0	3903.6	4131.3	4140.5	4524.4	4436.4	4041.3	4232.5
57.5°	3914.2	3891.7	3995.6	4096.2	4407.9	4432.4	4856.0	4735.5	4237.2	4472.1
60°	4106.1	4090.2	4171.0	4319.9	4717.7	4756.7	5206.8	5004.9	4380.8	4662.1
62.5°	4495.3	4455.6	4468.2	4599.9	5108.2	5159.8	5602.6	5239.9	4452.3	4736.2
65°	5077.1	5008.9	4945.4	5036.7	5658.2	5709.1	6049.3	5424.5	4425.8	4592.6
67.5°	5809.7	5742.2	5664.1	5750.2	6468.3	6508.6	6600.6	5528.4	4217.3	4039.3
70°	6414.0	6388.8	6482.2	6836.3	7762.2	7763.5	7307.5	5442.4	3646.1	2863.8
72.5°	6333.9	6318.7	6810.4	7905.1	9393.0	9357.9	7976.6	4791.1	2456.1	1291.9
75°	5196.2	5294.8	6056.6	7886.0	9978.7	9974.1	7566.9	3045.8	1015.9	535.4
77.5°	2786.4	2942.6	3932.1	5822.3	7790.0	7907.1	5320.0	1065.6	436.2	342.8
80°	908.7	1045.1	1567.3	2964.4	5061.8	5040.0	2280.1	418.3	298.5	242.9
82.5°	385.9	401.7	700.2	1399.8	2597.8	2557.4	726.1	240.3	209.8	166.1
85°	150.9	168.8	309.1	647.3	1125.1	1100.7	262.1	119.1	134.4	108.5
87.5°	49.6	60.2	110.5	221.7	350.1	337.5	64.2	41.0	58.2	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940029  
 CATALOG NUMBER: GALN-SB2D-927-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1631.5	0°	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5	1631.5
1636.1	2.5°	1645.4	1656.0	1668.5	1687.1	1702.9	1716.2	1730.1	1738.7	1742.0	1751.9
1638.7	5°	1657.3	1680.4	1711.5	1742.0	1771.8	1789.6	1805.5	1813.5	1820.8	1826.0
1646.0	7.5°	1677.1	1706.9	1755.9	1795.6	1820.8	1835.3	1845.9	1843.3	1845.9	1847.2
1654.0	10°	1694.3	1736.0	1794.3	1832.0	1851.2	1851.9	1849.2	1839.9	1835.3	1836.0
1665.9	12.5°	1714.9	1761.2	1824.1	1855.8	1861.1	1846.6	1835.3	1819.4	1813.5	1810.8
1683.7	15°	1742.7	1795.6	1856.5	1868.4	1855.2	1836.6	1817.4	1791.6	1778.4	1767.8
1714.2	17.5°	1776.4	1834.7	1881.6	1873.0	1844.6	1814.1	1783.0	1744.0	1716.8	1705.6
1755.9	20°	1823.4	1875.7	1900.8	1863.1	1820.1	1773.8	1720.8	1673.2	1648.0	1636.8
1808.8	22.5°	1880.3	1930.6	1919.4	1845.9	1785.0	1710.9	1644.7	1609.6	1597.0	1589.1
1877.0	25°	1948.5	1991.5	1932.6	1820.8	1727.4	1627.5	1576.5	1565.3	1559.3	1553.4
1960.4	27.5°	2037.2	2060.3	1942.5	1783.7	1637.4	1538.8	1520.3	1522.3	1520.3	1510.3
2076.2	30°	2154.3	2149.7	1951.8	1723.5	1534.2	1458.7	1460.0	1468.6	1470.0	1463.4
2237.7	32.5°	2308.5	2261.5	1956.4	1645.4	1435.6	1388.6	1389.9	1399.2	1405.8	1394.5
2448.8	35°	2495.2	2391.9	1949.2	1547.4	1359.4	1321.7	1311.8	1314.4	1316.4	1305.8
2705.0	37.5°	2712.9	2538.2	1916.7	1438.9	1296.6	1256.2	1235.0	1217.1	1206.6	1196.6
2994.9	40°	2951.9	2697.7	1857.2	1333.0	1226.4	1186.7	1154.9	1121.2	1085.4	1072.2
3302.0	42.5°	3202.0	2861.8	1785.0	1231.7	1145.7	1113.2	1079.5	1030.5	976.9	949.8
3621.0	45°	3461.5	3030.0	1714.2	1131.8	1062.9	1049.0	1010.0	951.1	892.8	858.4
3940.7	47.5°	3715.6	3188.8	1610.3	1031.2	985.5	1000.7	970.3	916.0	851.1	796.9
4257.7	50°	3958.5	3337.7	1440.2	929.2	922.6	986.2	957.0	878.9	804.8	735.3
4568.8	52.5°	4199.4	3458.2	1222.4	836.6	888.9	982.2	939.8	853.8	763.1	690.3
4861.3	55°	4404.0	3520.4	1012.6	757.2	839.9	948.4	919.3	824.0	704.2	626.8
5061.8	57.5°	4520.4	3470.1	837.9	679.1	772.4	892.8	884.2	760.5	634.1	574.5
5100.9	60°	4470.1	3266.2	694.9	610.9	708.2	832.6	823.3	697.6	580.4	524.2
4891.7	62.5°	4192.8	2877.7	581.8	551.3	649.9	771.1	762.5	649.3	539.4	485.1
4336.4	65°	3634.2	2341.0	493.7	501.7	591.0	696.9	709.5	608.9	507.0	454.0
3354.9	67.5°	2771.8	1695.7	424.9	458.7	533.5	624.1	660.5	579.8	479.8	429.5
1941.2	70°	1579.8	963.0	366.7	417.0	482.5	556.6	622.8	556.6	450.7	409.0
727.4	72.5°	599.0	442.1	317.0	375.3	433.5	499.7	581.1	520.2	417.0	385.9
375.9	75°	319.7	269.4	266.7	326.3	377.3	444.1	528.8	484.5	391.8	407.7
260.1	77.5°	217.7	190.6	223.0	279.3	315.7	382.5	473.2	430.2	339.5	338.2
180.0	80°	150.9	135.0	181.3	225.0	244.2	321.7	413.0	369.3	276.7	258.1
111.2	82.5°	90.7	88.0	135.7	168.1	172.7	248.2	342.2	309.7	226.4	197.2
66.2	85°	49.6	52.3	86.7	98.6	100.6	173.4	268.0	239.6	174.1	146.3
23.8	87.5°	13.9	17.9	31.8	39.0	48.3	90.0	159.5	142.3	87.4	60.9
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>
1631.5
1751.3
1827.4
1849.2
1837.3
1809.5
1771.1
1706.3
1635.4
1590.4
1553.4
1512.3
1466.7
1399.8
1313.1
1203.2
1078.2
953.1
855.8
790.9
729.4
682.4
620.2
566.5
516.2
476.5
445.4
421.6
403.7
380.6
420.9
311.7
246.9
198.6
147.6
60.9
0.0

F REPORT)