

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: P941049

Luminaire Tested: **GALN-SB4B-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941049
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-SB4B-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13577 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

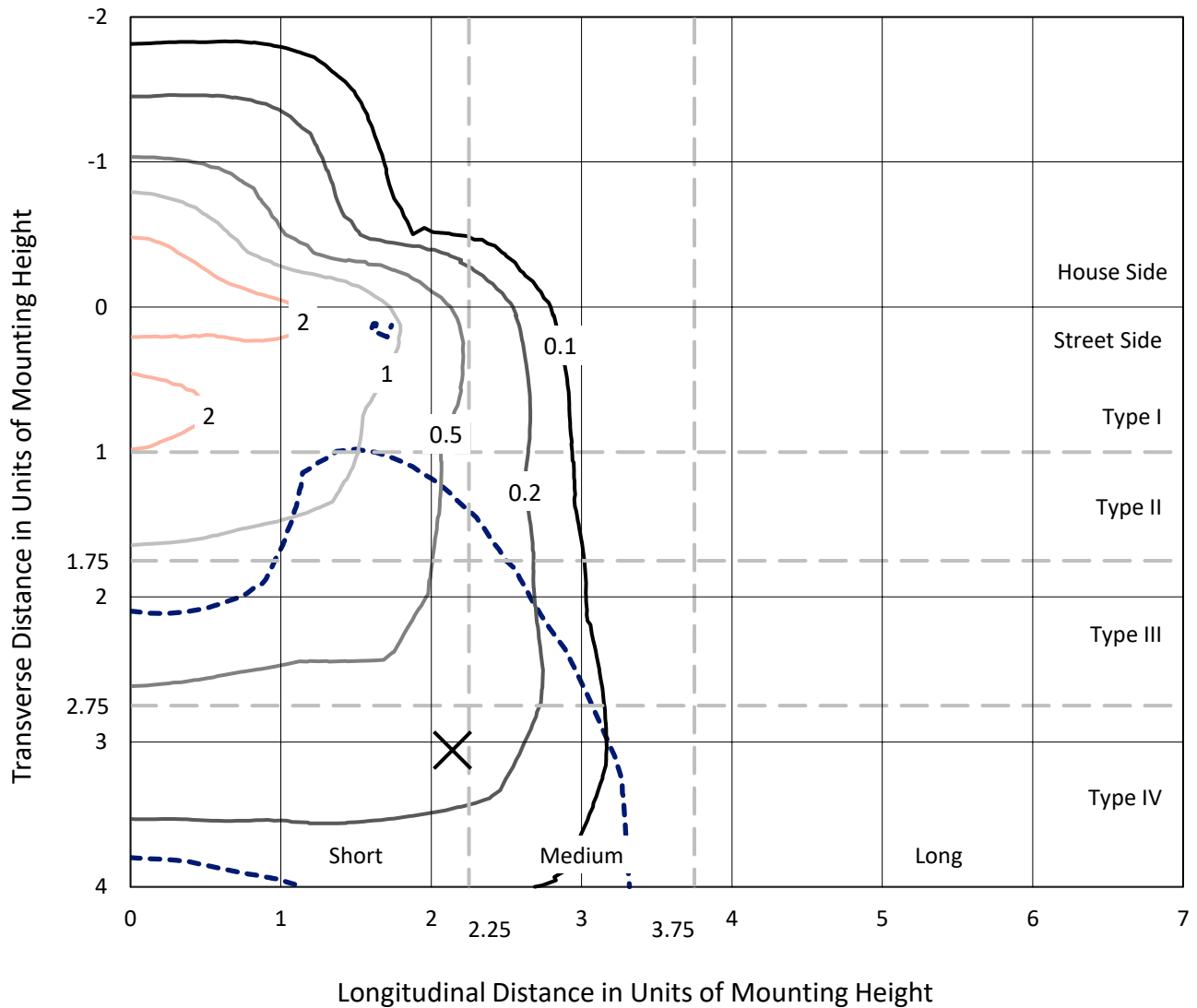
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941049
 CATALOG NUMBER: GALN-SB4B-927-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

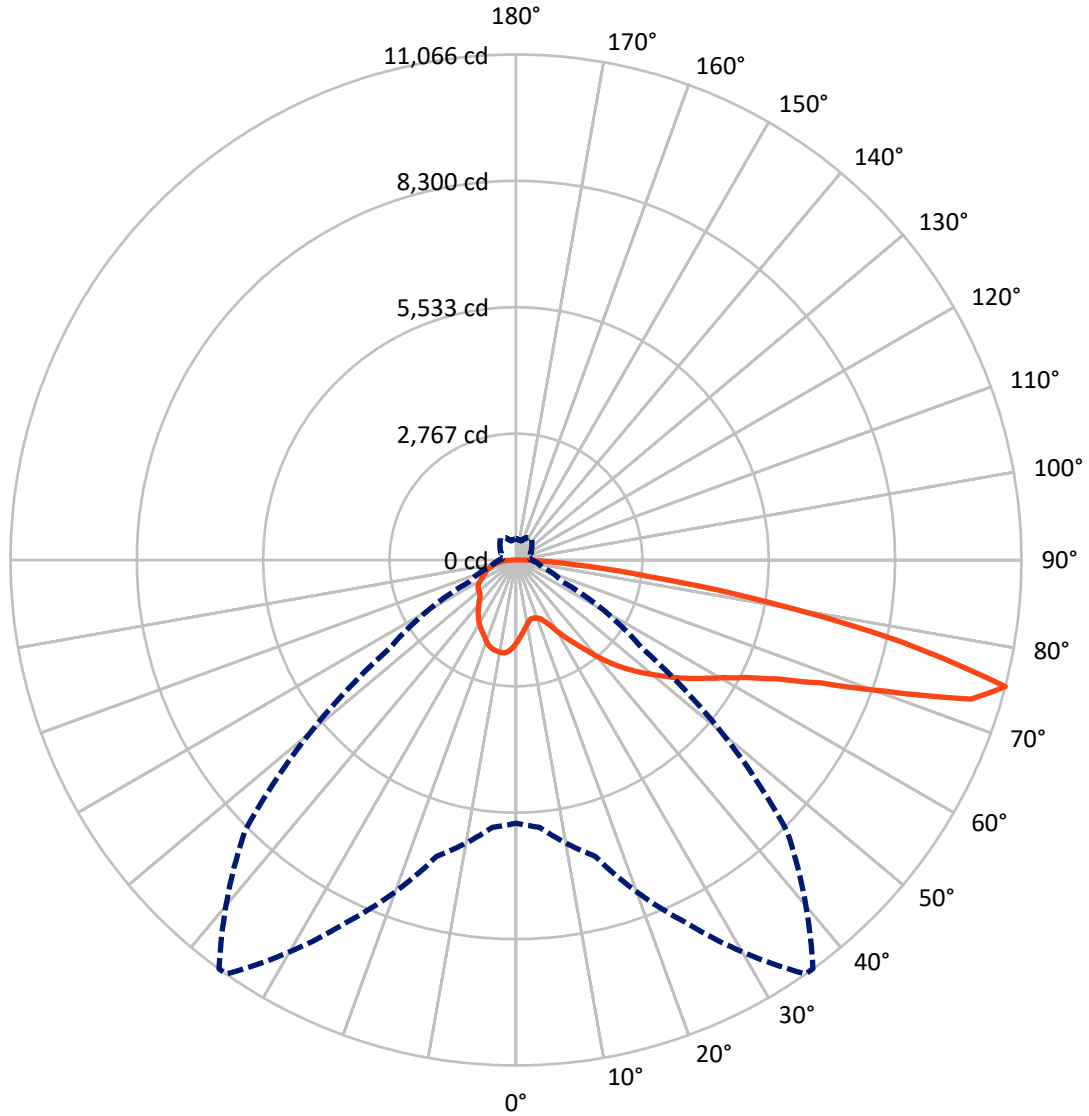
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P941049
CATALOG NUMBER: GALN-SB4B-927-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P941049
 CATALOG NUMBER: GALN-SB4B-927-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3231.0	0.0	3231.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10346.0	0.0	10346.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	13577.0	0.0	13577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	1.3
10°-20°	494.1	3.6
20°-30°	829.7	6.1
30°-40°	1289.5	9.5
40°-50°	1914.0	14.1
50°-60°	2642.3	19.5
60°-70°	3205.7	23.6
70°-80°	2649.3	19.5
80°-90°	381.0	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°	13577.0	100.0
0°-180°	13577.0	100.0

Coefficient of Utilization



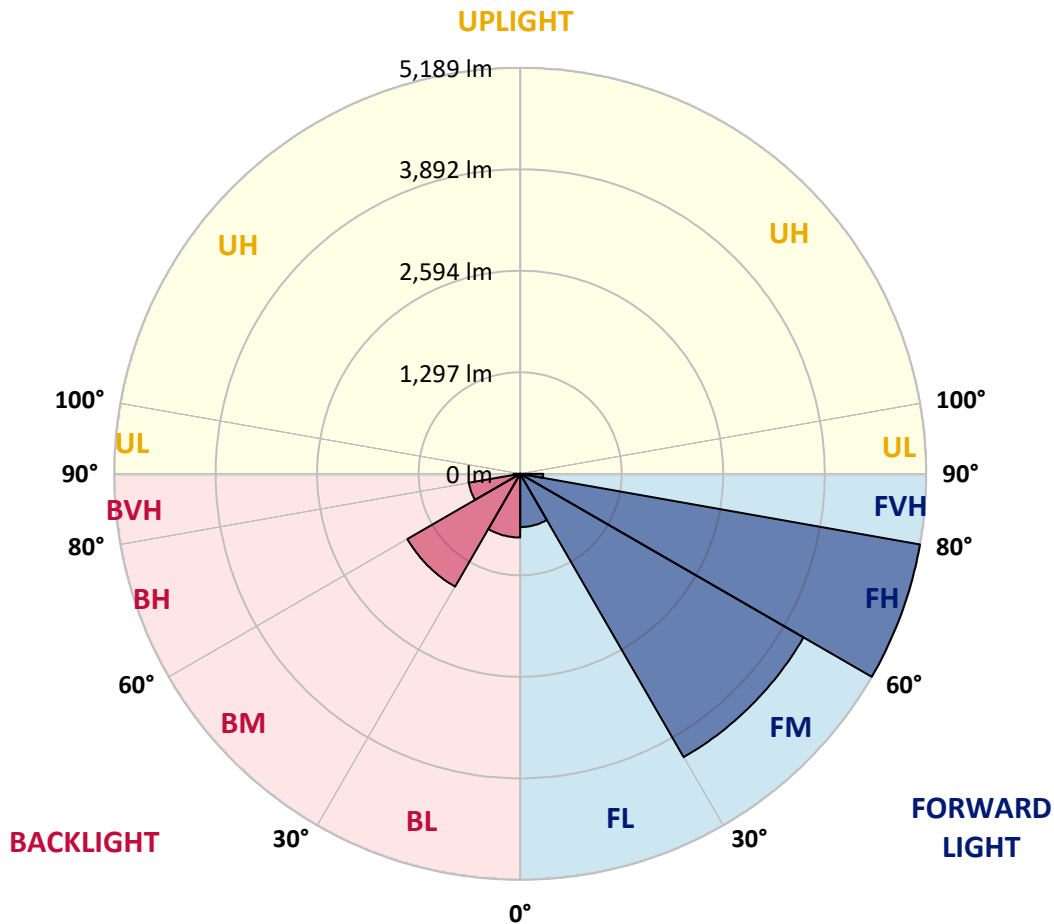
REPORT NUMBER: P941049
 CATALOG NUMBER: GALN-SB4B-927-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.9	5.0			
FM (30°-60°)	4181.0	30.8			
FH (60°-80°)	5188.9	38.2			G3/7500
FVH (80°-90°)	295.2	2.2			G3/500
BL (0°-30°)	814.3	6.0	B2/1000		
BM (30°-60°)	1664.8	12.3	B2/2500		
BH (60°-80°)	666.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	85.8	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: P941049
 CATALOG NUMBER: GALN-SB4B-927-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1668.3	1678.6	1683.0	1680.8	1691.8	1690.3	1705.7	1724.8	1751.2	1776.9
5°	1539.9	1550.9	1560.4	1569.2	1590.5	1597.1	1621.3	1658.0	1706.5	1755.6
7.5°	1420.2	1429.8	1444.4	1460.6	1496.6	1503.2	1543.5	1600.8	1668.3	1740.2
10°	1322.6	1332.1	1347.6	1365.9	1410.7	1418.8	1470.1	1546.5	1634.5	1725.6
12.5°	1280.8	1283.7	1292.5	1310.9	1349.8	1354.9	1411.4	1498.8	1601.5	1714.5
15°	1278.6	1284.4	1285.2	1294.7	1327.0	1329.2	1381.3	1467.9	1581.0	1712.3
17.5°	1300.6	1305.0	1298.4	1304.3	1331.4	1335.1	1376.2	1453.3	1574.4	1721.9
20°	1359.3	1363.0	1343.2	1335.1	1354.9	1357.8	1398.2	1462.8	1581.0	1741.7
22.5°	1484.1	1486.3	1437.8	1404.8	1406.3	1407.7	1443.0	1501.7	1606.7	1777.7
25°	1678.6	1677.1	1600.0	1536.2	1499.5	1491.4	1514.9	1564.8	1650.0	1825.4
27.5°	1906.1	1895.1	1818.0	1722.6	1642.6	1630.9	1625.7	1647.0	1711.6	1888.5
30°	2163.0	2152.7	2069.8	1945.0	1834.2	1815.1	1766.7	1755.6	1803.4	1974.4
32.5°	2444.8	2438.2	2339.2	2188.0	2039.7	2017.7	1936.2	1906.8	1944.3	2104.3
35°	2681.2	2675.3	2593.1	2437.5	2256.2	2229.1	2146.1	2113.1	2132.2	2270.9
37.5°	2894.8	2891.8	2821.4	2698.8	2511.6	2478.6	2385.4	2374.4	2370.7	2490.3
40°	3092.9	3085.6	3012.2	2947.6	2808.9	2778.8	2696.6	2687.1	2659.2	2760.4
42.5°	3312.4	3293.3	3186.9	3156.8	3119.4	3094.4	3045.2	3046.7	2985.0	3065.0
45°	3491.5	3480.5	3371.1	3353.5	3393.9	3383.6	3426.2	3437.2	3317.5	3384.3
47.5°	3683.8	3673.5	3581.0	3568.5	3677.9	3680.8	3831.3	3835.0	3641.9	3716.1
50°	3920.8	3906.2	3814.4	3829.8	3952.4	3963.4	4238.7	4213.7	3940.7	4053.0
52.5°	4077.2	4086.0	4066.2	4091.1	4258.5	4268.7	4639.4	4575.5	4236.5	4385.4
55°	4192.4	4210.0	4271.7	4328.9	4581.4	4591.7	5017.4	4919.8	4481.6	4693.7
57.5°	4340.7	4315.7	4431.0	4542.5	4888.2	4915.4	5385.1	5251.5	4698.9	4959.4
60°	4553.5	4535.9	4625.5	4790.6	5231.7	5275.0	5774.1	5550.3	4858.1	5170.1
62.5°	4985.1	4941.1	4955.0	5101.1	5664.8	5722.0	6213.0	5810.8	4937.4	5252.3
65°	5630.3	5554.7	5484.2	5585.5	6274.7	6331.2	6708.5	6015.6	4908.0	5093.0
67.5°	6442.8	6367.9	6281.3	6376.7	7173.1	7217.8	7319.8	6130.8	4676.8	4479.4
70°	7112.9	7085.0	7188.5	7581.1	8608.0	8609.4	8103.7	6035.4	4043.4	3175.9
72.5°	7024.1	7007.2	7552.5	8766.5	10416.5	10377.6	8845.8	5313.2	2723.7	1432.7
75°	5762.4	5871.7	6716.5	8745.2	11066.0	11060.9	8391.4	3377.7	1126.6	593.8
77.5°	3090.0	3263.2	4360.5	6456.7	8638.8	8768.7	5899.6	1181.7	483.7	380.2
80°	1007.7	1158.9	1738.0	3287.4	5613.4	5589.2	2528.5	463.9	331.0	269.4
82.5°	427.9	445.5	776.5	1552.3	2880.8	2836.0	805.2	266.4	232.7	184.2
85°	167.3	187.2	342.8	717.8	1247.7	1220.6	290.7	132.1	149.0	120.4
87.5°	55.0	66.8	122.6	245.9	388.3	374.3	71.2	45.5	64.6	55.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941049
 CATALOG NUMBER: GALN-SB4B-927-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1809.2	0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
1814.4	2.5°	1824.6	1836.4	1850.3	1870.9	1888.5	1903.2	1918.6	1928.1	1931.8	1942.8
1817.3	5°	1837.9	1863.5	1898.0	1931.8	1964.8	1984.6	2002.3	2011.1	2019.1	2025.0
1825.4	7.5°	1859.9	1892.9	1947.2	1991.3	2019.1	2035.3	2047.0	2044.1	2047.0	2048.5
1834.2	10°	1879.0	1925.2	1989.8	2031.6	2052.9	2053.6	2050.7	2040.4	2035.3	2036.0
1847.4	12.5°	1901.7	1953.1	2022.8	2058.0	2063.9	2047.8	2035.3	2017.7	2011.1	2008.1
1867.2	15°	1932.5	1991.3	2058.8	2072.0	2057.3	2036.8	2015.5	1986.8	1972.2	1960.4
1901.0	17.5°	1970.0	2034.6	2086.7	2077.1	2045.6	2011.8	1977.3	1934.0	1903.9	1891.4
1947.2	20°	2022.1	2080.1	2108.0	2066.1	2018.4	1967.0	1908.3	1855.5	1827.6	1815.1
2005.9	22.5°	2085.2	2141.0	2128.5	2047.0	1979.5	1897.3	1823.9	1785.0	1771.1	1762.3
2081.5	25°	2160.8	2208.5	2143.2	2019.1	1915.7	1804.8	1748.3	1735.8	1729.2	1722.6
2174.0	27.5°	2259.1	2284.8	2154.2	1978.0	1815.8	1706.5	1685.9	1688.1	1685.9	1674.9
2302.5	30°	2389.1	2383.9	2164.5	1911.2	1701.3	1617.7	1619.1	1628.7	1630.1	1622.8
2481.5	32.5°	2560.1	2508.0	2169.6	1824.6	1592.0	1539.9	1541.3	1551.6	1558.9	1546.5
2715.7	35°	2767.1	2652.6	2161.5	1716.0	1507.6	1465.7	1454.7	1457.7	1459.9	1448.1
2999.7	37.5°	3008.5	2814.8	2125.6	1595.6	1437.8	1393.1	1369.6	1349.8	1338.0	1327.0
3321.2	40°	3273.5	2991.6	2059.5	1478.2	1360.0	1316.0	1280.8	1243.3	1203.7	1189.0
3661.8	42.5°	3550.9	3173.7	1979.5	1365.9	1270.5	1234.5	1197.1	1142.8	1083.3	1053.2
4015.5	45°	3838.6	3360.1	1901.0	1255.1	1178.7	1163.3	1120.0	1054.7	990.1	952.0
4370.0	47.5°	4120.5	3536.2	1785.7	1143.5	1092.9	1109.8	1076.0	1015.8	943.9	883.7
4721.6	50°	4389.9	3701.4	1597.1	1030.5	1023.1	1093.6	1061.3	974.7	892.5	815.4
5066.6	52.5°	4657.0	3835.0	1355.6	927.7	985.7	1089.2	1042.2	946.8	846.3	765.5
5391.0	55°	4883.8	3904.0	1123.0	839.7	931.4	1051.8	1019.5	913.8	780.9	695.1
5613.4	57.5°	5013.0	3848.2	929.2	753.0	856.5	990.1	980.6	843.3	703.1	637.1
5656.7	60°	4957.2	3622.1	770.7	677.5	785.3	923.3	913.1	773.6	643.7	581.3
5424.7	62.5°	4649.7	3191.3	645.2	611.4	720.8	855.1	845.5	720.0	598.2	538.0
4808.9	65°	4030.2	2596.0	547.5	556.3	655.4	772.9	786.8	675.2	562.2	503.5
3720.5	67.5°	3073.9	1880.4	471.2	508.6	591.6	692.1	732.5	643.0	532.1	476.3
2152.7	70°	1752.0	1067.9	406.6	462.4	535.1	617.3	690.7	617.3	499.8	453.6
806.6	72.5°	664.2	490.3	351.6	416.2	480.7	554.1	644.4	576.9	462.4	427.9
416.9	75°	354.5	298.7	295.8	361.8	418.4	492.5	586.4	537.3	434.5	452.1
288.4	77.5°	241.5	211.4	247.3	309.7	350.1	424.2	524.8	477.1	376.5	375.1
199.6	80°	167.3	149.7	201.1	249.5	270.8	356.7	458.0	409.6	306.8	286.2
123.3	82.5°	100.6	97.6	150.5	186.4	191.6	275.2	379.5	343.5	251.0	218.7
73.4	85°	55.0	58.0	96.1	109.4	111.6	192.3	297.3	265.7	193.0	162.2
26.4	87.5°	15.4	19.8	35.2	43.3	53.6	99.8	176.9	157.8	96.9	67.5
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>
1809.2
1942.1
2026.5
2050.7
2037.5
2006.7
1964.1
1892.2
1813.6
1763.7
1722.6
1677.1
1626.5
1552.3
1456.2
1334.4
1195.6
1056.9
949.0
877.1
808.8
756.7
687.7
628.3
572.5
528.5
494.0
467.5
447.7
422.0
466.8
345.7
273.8
220.2
163.7
67.5
0.0

F REPORT)