

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: P946411

Luminaire Tested: **GALN-SB2A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946411
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-SB2A-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7753 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

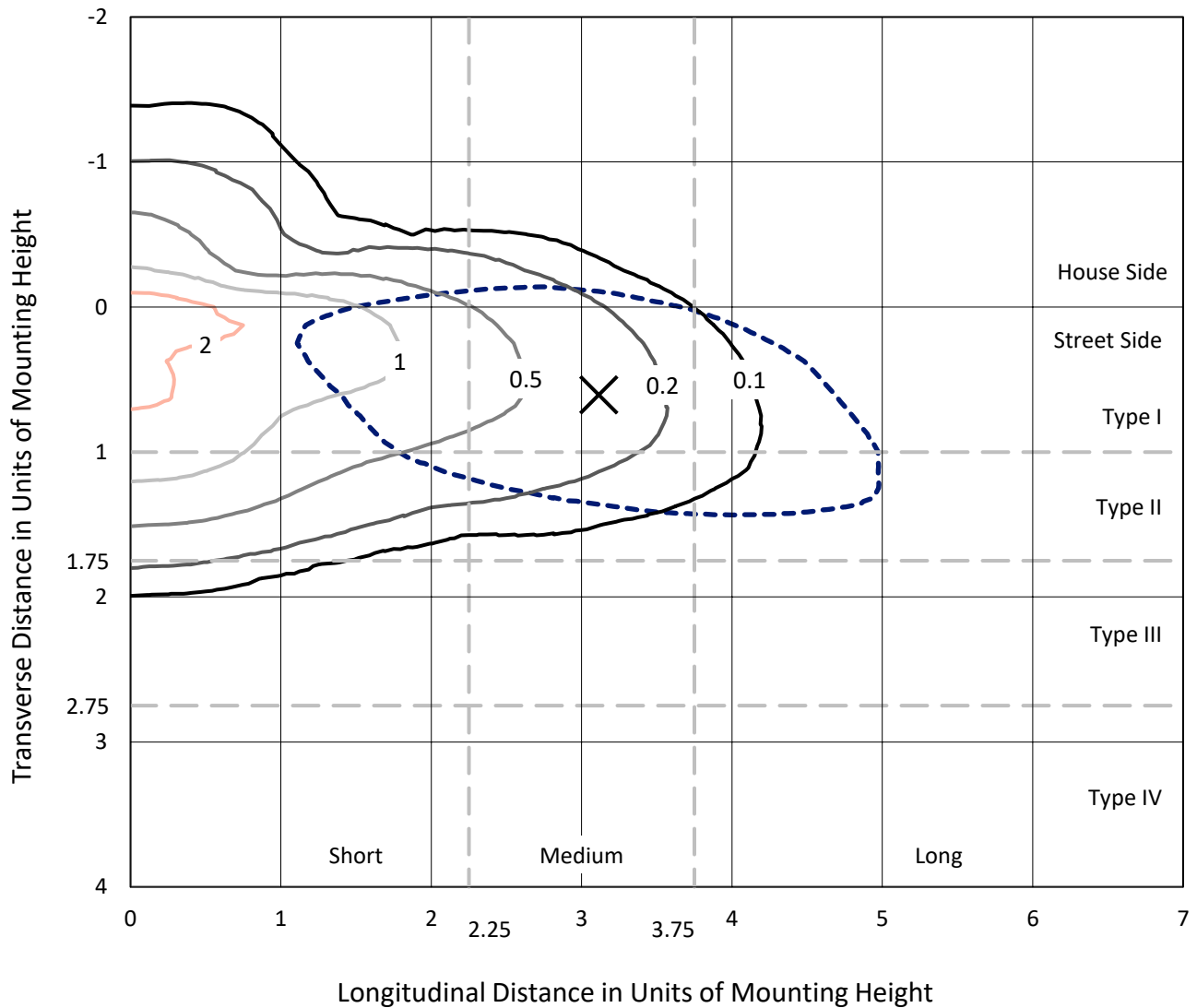
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946411
 CATALOG NUMBER: GALN-SB2A-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

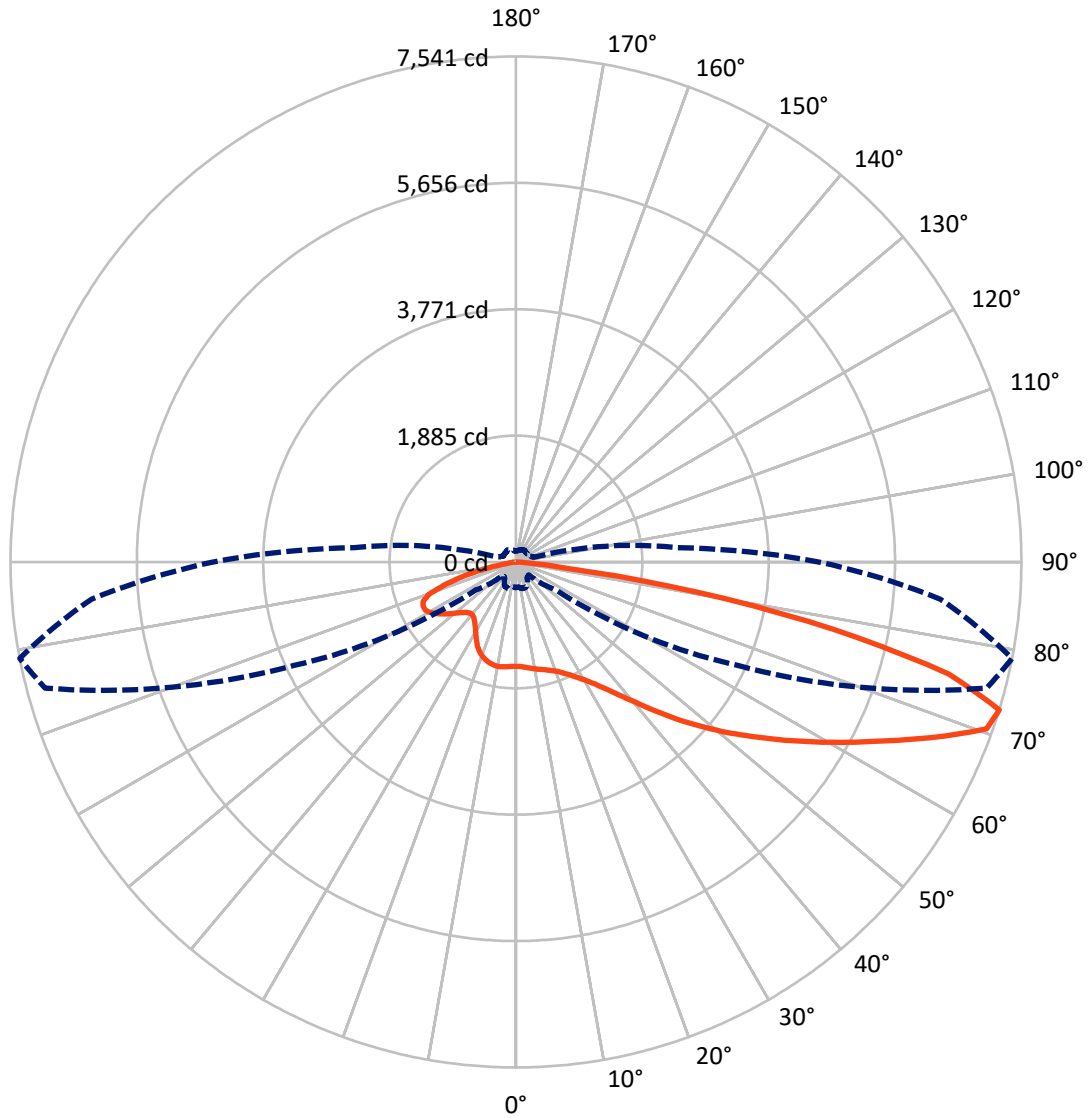
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P946411
CATALOG NUMBER: GALN-SB2A-827-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946411
 CATALOG NUMBER: GALN-SB2A-827-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.1	0.0	1706.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6046.9	0.0	6046.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	7753.0	0.0	7753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	1.8
10°-20°	369.4	4.8
20°-30°	596.0	7.7
30°-40°	894.5	11.5
40°-50°	1268.9	16.4
50°-60°	1602.4	20.7
60°-70°	1627.5	21.0
70°-80°	1109.2	14.3
80°-90°	143.9	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°	7753.0	100.0
0°-180°	7753.0	100.0

Coefficient of Utilization



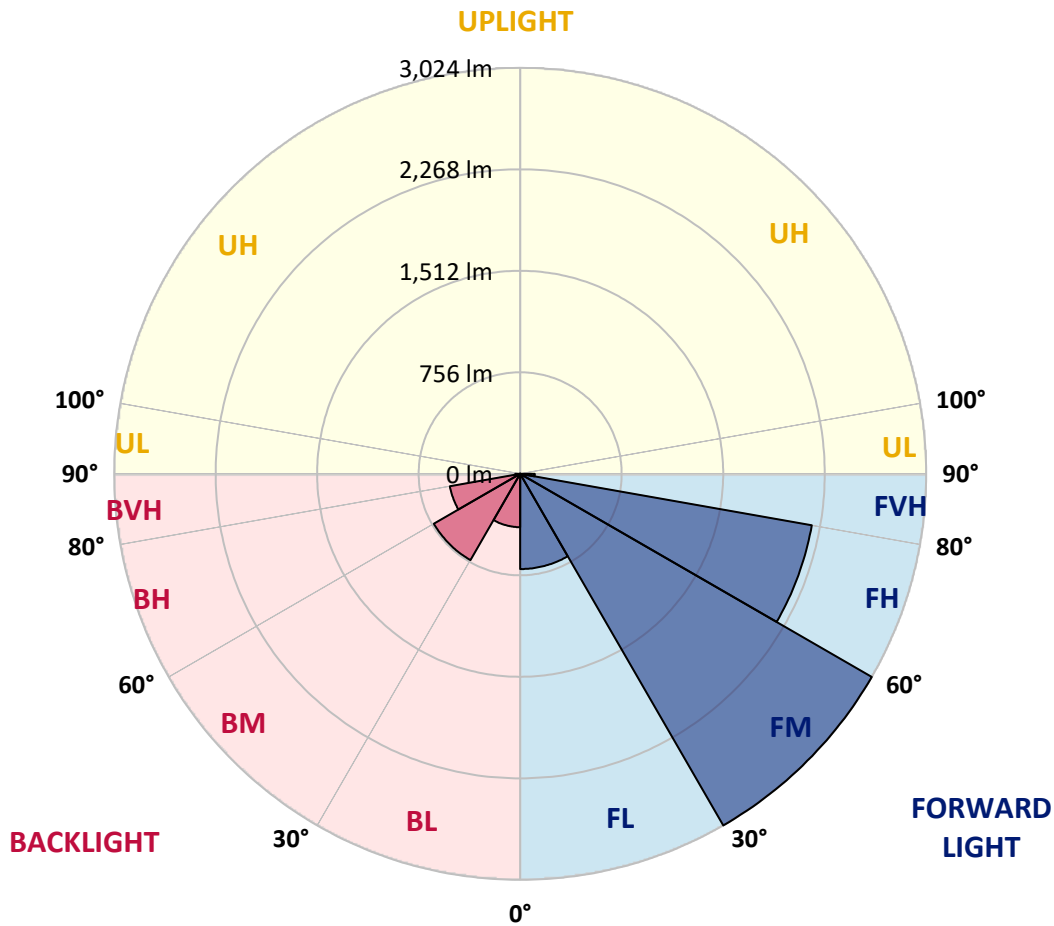
REPORT NUMBER: P946411
 CATALOG NUMBER: GALN-SB2A-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.2	9.1			
FM (30°-60°)	3023.8	39.0			
FH (60°-80°)	2205.5	28.4			G2/5000
FVH (80°-90°)	108.4	1.4			G2/225
BL (0°-30°)	397.4	5.1	B1/500		
BM (30°-60°)	742.0	9.6	B1/1000		
BH (60°-80°)	531.2	6.9	B2/1000		G2/1000
BVH (80°-90°)	35.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P946411

CATALOG NUMBER: GALN-SB2A-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3
2.5°	1557.2	1549.8	1554.3	1552.7	1554.7	1557.2	1558.0	1559.2	1563.3	1562.9
5°	1553.9	1546.5	1552.7	1550.6	1555.9	1561.7	1566.6	1571.1	1577.7	1580.5
7.5°	1546.9	1542.0	1548.1	1554.3	1564.1	1572.7	1579.7	1590.0	1599.4	1601.0
10°	1506.3	1502.6	1517.0	1533.0	1560.0	1583.4	1598.6	1610.5	1620.7	1622.4
12.5°	1464.1	1459.6	1475.6	1497.3	1541.2	1583.4	1615.4	1631.0	1640.0	1645.3
15°	1457.1	1453.4	1462.4	1481.3	1517.8	1572.3	1626.9	1655.6	1663.4	1669.5
17.5°	1490.7	1483.8	1487.4	1494.0	1515.3	1562.1	1635.9	1683.5	1695.4	1701.9
20°	1568.6	1558.8	1553.1	1539.9	1536.2	1563.7	1635.1	1717.1	1732.7	1740.9
22.5°	1672.4	1665.8	1653.5	1620.3	1584.2	1583.8	1650.7	1760.2	1789.3	1797.1
25°	1797.9	1788.0	1772.5	1727.4	1658.0	1623.6	1676.9	1815.1	1863.9	1866.0
27.5°	1942.2	1927.5	1906.2	1846.7	1753.2	1685.9	1717.1	1878.3	1949.6	1948.8
30°	2094.4	2079.6	2057.1	1984.9	1867.2	1770.0	1772.9	1946.3	2051.3	2046.8
32.5°	2205.5	2194.5	2190.0	2134.2	1998.4	1869.2	1836.9	2021.8	2176.8	2172.7
35°	2290.8	2276.5	2281.8	2253.5	2141.6	1980.4	1915.2	2111.6	2329.4	2329.0
37.5°	2375.3	2362.6	2367.1	2348.3	2274.0	2121.5	2010.7	2221.5	2518.4	2527.5
40°	2452.4	2438.9	2456.9	2439.3	2377.0	2271.6	2119.4	2345.8	2737.4	2754.7
42.5°	2498.8	2488.1	2518.0	2518.4	2466.4	2398.3	2238.8	2482.8	2990.9	3029.4
45°	2514.8	2511.1	2556.2	2565.6	2545.5	2471.7	2346.2	2632.0	3264.0	3332.9
47.5°	2497.5	2490.6	2552.9	2587.8	2603.7	2506.1	2435.2	2793.6	3542.9	3643.8
50°	2410.6	2397.1	2489.7	2563.1	2620.1	2528.7	2525.0	2980.2	3859.9	3970.2
52.5°	2254.3	2244.1	2349.5	2477.0	2584.1	2539.8	2625.9	3184.0	4160.9	4303.6
55°	2054.6	2041.1	2157.1	2323.6	2494.2	2536.1	2726.8	3412.1	4516.1	4660.8
57.5°	1738.0	1710.9	1857.8	2054.6	2347.8	2531.6	2831.8	3638.8	4876.9	5050.4
60°	1276.2	1236.1	1416.1	1649.4	2061.6	2487.7	2961.8	3893.1	5310.0	5466.3
62.5°	743.1	719.7	837.4	1055.2	1553.9	2229.3	3034.8	4188.8	5735.7	5899.7
65°	577.0	570.5	580.7	597.5	864.9	1669.1	2809.6	4477.1	6277.0	6391.9
67.5°	527.8	522.9	527.4	495.8	438.8	929.7	2222.8	4550.1	6856.9	6926.6
70°	469.2	463.4	478.2	451.1	345.3	422.8	1436.2	4285.2	7318.3	7449.1
72.5°	382.2	375.7	410.1	397.8	290.8	271.5	721.4	3655.7	7269.9	7541.4
75°	293.6	289.9	331.0	341.2	237.0	213.7	346.1	2717.3	6397.6	6671.1
77.5°	228.0	225.1	246.1	283.4	191.1	165.7	212.8	1723.7	4821.2	4869.2
80°	171.0	162.8	182.1	219.4	148.9	121.0	144.4	1005.2	3047.5	2762.5
82.5°	107.0	102.9	118.9	146.4	105.0	83.3	93.9	555.3	1221.3	719.3
85°	61.1	59.5	64.8	83.7	57.0	48.0	53.7	245.2	223.1	153.4
87.5°	24.6	23.8	29.5	37.3	20.9	17.6	18.9	59.1	49.2	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946411
 CATALOG NUMBER: GALN-SB2A-827-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1556.3	0°	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3	1556.3
1562.5	2.5°	1560.9	1560.9	1555.1	1546.1	1535.8	1529.3	1518.6	1515.7	1504.7	1501.4
1576.4	5°	1579.7	1576.4	1558.8	1533.4	1498.5	1466.5	1431.3	1409.1	1377.9	1366.9
1603.9	7.5°	1603.5	1594.5	1564.1	1508.4	1435.4	1363.6	1289.0	1232.4	1178.2	1159.0
1626.5	10°	1625.2	1612.5	1560.9	1463.2	1336.9	1212.7	1093.7	1010.5	947.3	921.5
1651.5	12.5°	1647.0	1623.6	1539.1	1388.2	1197.1	1028.5	901.8	837.0	798.1	766.9
1672.0	15°	1667.5	1634.7	1505.5	1287.7	1043.7	872.7	779.2	727.5	696.4	675.8
1701.9	17.5°	1691.3	1644.1	1455.0	1160.2	897.7	764.8	688.6	657.4	651.2	648.8
1742.9	20°	1724.5	1652.7	1388.6	1017.5	790.3	678.7	639.4	636.5	636.1	634.8
1792.2	22.5°	1760.2	1663.0	1300.8	887.9	698.8	625.0	618.0	612.3	608.6	608.2
1851.6	25°	1802.4	1666.2	1190.9	781.7	620.9	599.6	591.4	582.8	580.3	580.3
1919.3	27.5°	1843.4	1655.2	1063.0	689.4	577.0	576.2	565.5	562.7	562.3	563.5
1996.4	30°	1884.4	1634.3	935.9	604.1	551.6	551.6	547.9	549.9	551.6	555.7
2102.2	32.5°	1939.8	1612.1	829.6	540.9	529.4	525.3	529.0	533.1	534.8	540.1
2241.2	35°	2021.0	1596.5	745.2	506.5	506.5	501.1	503.2	502.4	498.7	496.2
2409.4	37.5°	2128.4	1595.7	675.4	490.5	487.2	486.4	486.8	481.5	467.1	449.9
2612.8	40°	2257.6	1617.9	621.7	479.4	476.9	481.9	479.4	465.1	425.7	395.7
2862.9	42.5°	2431.1	1681.0	587.3	465.9	473.3	479.4	469.6	419.9	393.3	373.2
3148.0	45°	2635.3	1783.5	569.6	451.5	466.3	473.7	426.1	404.4	383.0	358.8
3458.8	47.5°	2866.6	1912.7	565.5	438.0	450.7	455.2	407.6	397.8	373.6	347.4
3771.3	50°	3118.4	2065.7	576.6	422.0	428.1	412.6	401.5	392.5	367.5	341.6
4091.6	52.5°	3378.8	2234.2	598.8	400.3	405.6	388.4	399.0	391.2	363.8	328.9
4422.6	55°	3634.7	2404.0	620.1	374.8	382.6	366.6	392.1	386.3	346.9	307.6
4775.6	57.5°	3894.7	2573.0	641.0	352.3	360.5	345.7	381.0	373.2	328.1	287.9
5161.1	60°	4165.0	2737.0	650.8	330.5	336.3	326.4	364.2	350.6	306.8	267.8
5540.1	62.5°	4418.0	2873.6	634.8	308.8	312.5	308.4	342.0	324.0	285.4	245.2
5935.0	65°	4671.9	2954.8	585.6	287.5	288.3	286.3	310.9	295.3	260.4	225.6
6280.7	67.5°	4902.0	3000.3	507.3	264.5	262.5	261.6	281.7	264.1	236.2	205.9
6543.6	70°	4950.8	2884.7	387.5	237.4	237.4	235.4	249.8	231.7	209.6	185.0
6355.4	72.5°	4521.8	2426.6	275.2	206.7	210.0	205.9	217.8	202.6	182.5	166.1
5477.3	75°	3646.2	1779.4	200.1	175.1	180.9	173.9	185.0	174.3	157.1	156.7
3774.6	77.5°	2505.3	1100.3	145.2	144.4	148.5	139.4	152.1	146.4	130.8	123.9
1642.9	80°	1069.1	438.8	105.8	111.5	111.5	103.3	118.1	119.8	106.2	102.9
317.0	82.5°	212.8	124.7	74.2	76.7	72.2	69.7	83.7	92.7	128.0	142.3
95.6	85°	64.0	45.9	44.7	41.8	36.9	37.3	49.2	93.1	114.8	65.6
31.6	87.5°	17.6	11.5	11.9	9.4	7.8	10.3	16.8	70.5	38.5	16.4
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>
1556.3
1506.7
1375.1
1161.4
927.2
777.1
679.5
650.4
638.9
612.7
582.8
566.8
558.6
544.6
502.0
450.3
394.9
372.4
357.2
345.3
338.7
326.4
305.5
287.1
266.6
244.8
223.1
203.4
184.1
161.2
141.1
116.1
102.9
142.7
56.6
13.9
0.0

F REPORT)