

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: P946936

Luminaire Tested: **GALN-SB2B-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946936
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-SB2B-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8111 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

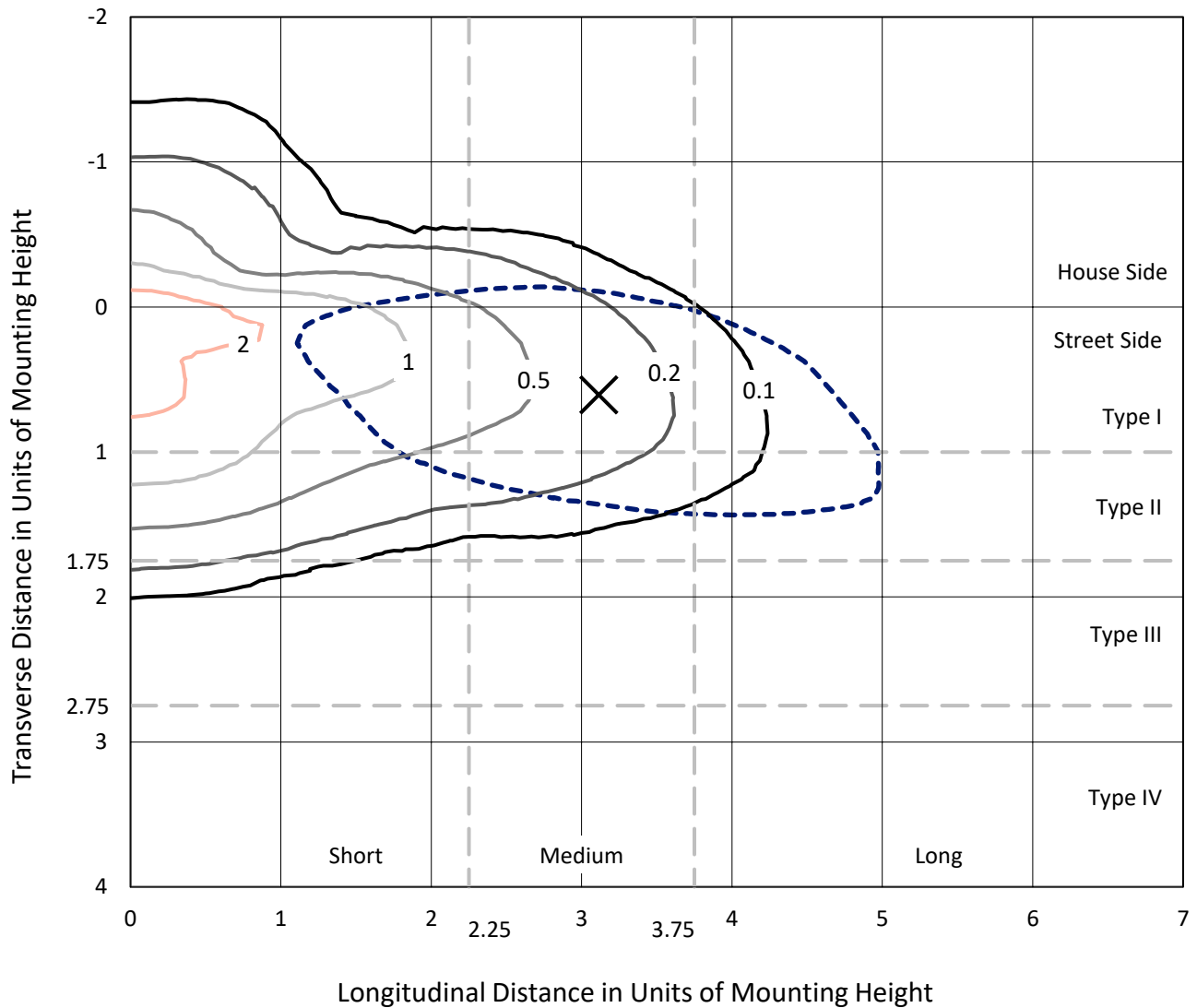
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946936
 CATALOG NUMBER: GALN-SB2B-940-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

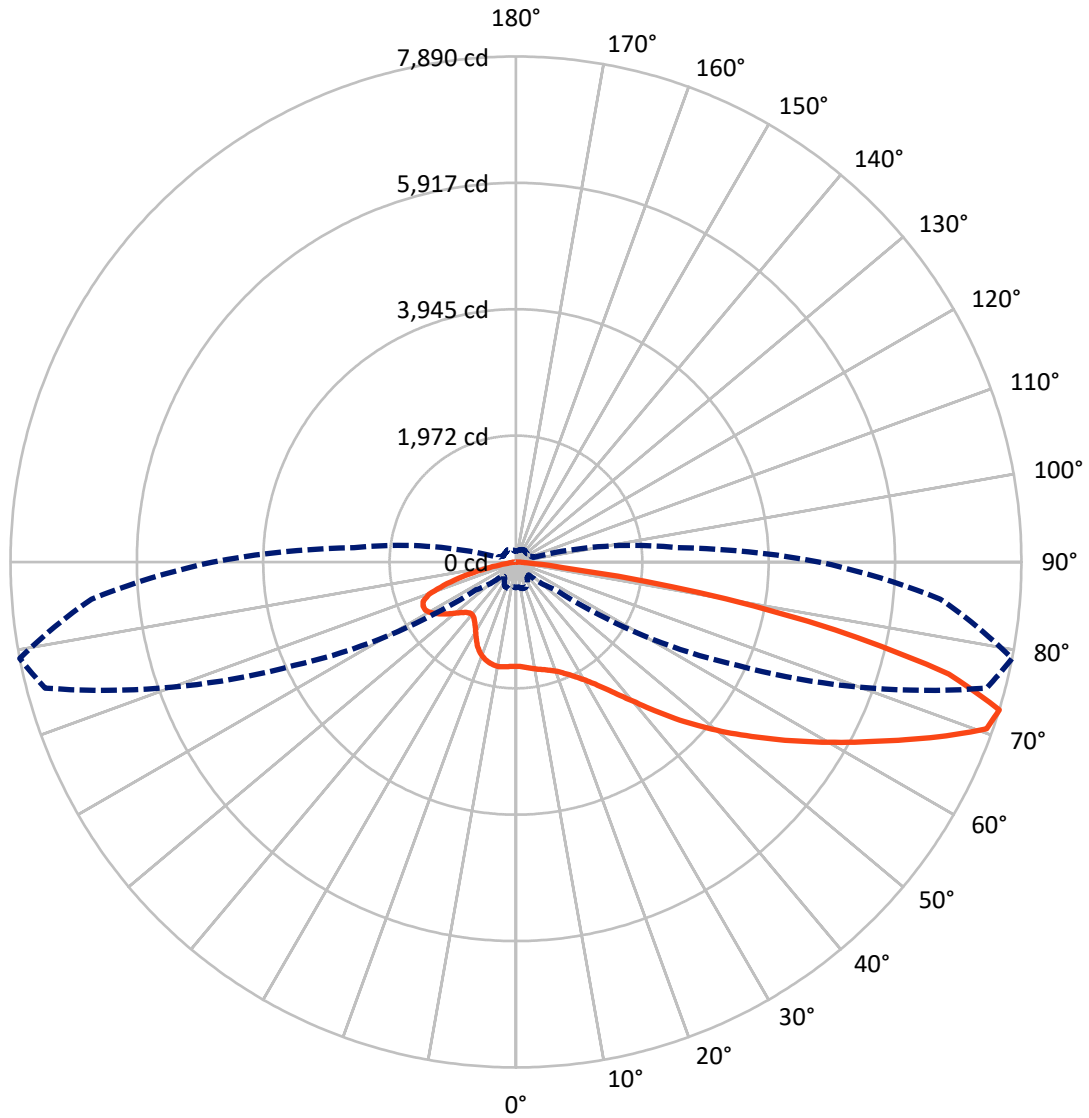
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P946936
CATALOG NUMBER: GALN-SB2B-940-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946936
 CATALOG NUMBER: GALN-SB2B-940-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1784.9	0.0	1784.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6326.1	0.0	6326.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	8111.0	0.0	8111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.8
10°-20°	386.4	4.8
20°-30°	623.5	7.7
30°-40°	935.8	11.5
40°-50°	1327.5	16.4
50°-60°	1676.4	20.7
60°-70°	1702.6	21.0
70°-80°	1160.4	14.3
80°-90°	150.6	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°	8111.0	100.0
0°-180°	8111.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946936

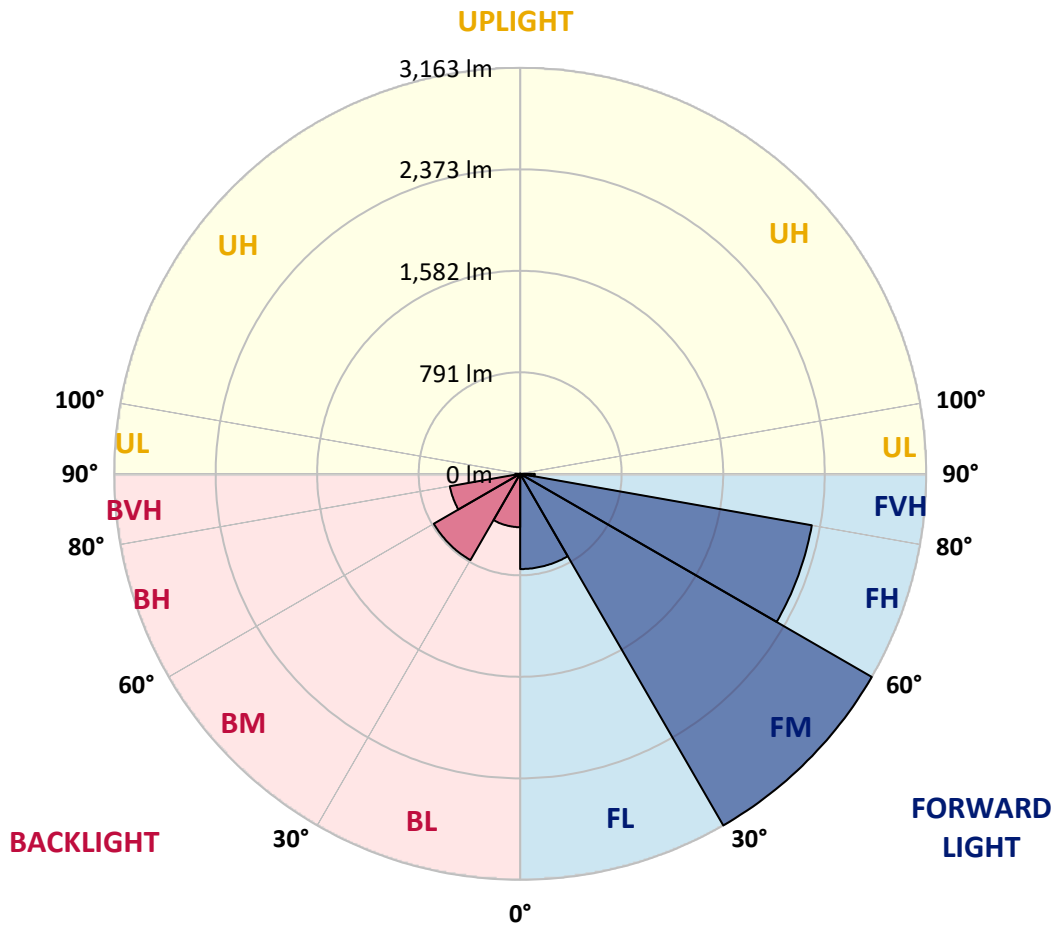
CATALOG NUMBER: GALN-SB2B-940-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.0	9.1			
FM (30°-60°)	3163.5	39.0			
FH (60°-80°)	2307.3	28.4			G2/5000
FVH (80°-90°)	113.4	1.4			G2/225
BL (0°-30°)	415.8	5.1	B1/500		
BM (30°-60°)	776.2	9.6	B1/1000		
BH (60°-80°)	555.7	6.9	B2/1000		G2/1000
BVH (80°-90°)	37.1	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: P946936

CATALOG NUMBER: GALN-SB2B-940-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2
2.5°	1629.1	1621.3	1626.1	1624.3	1626.5	1629.1	1629.9	1631.2	1635.5	1635.1
5°	1625.6	1617.9	1624.3	1622.2	1627.8	1633.8	1638.9	1643.7	1650.5	1653.5
7.5°	1618.3	1613.2	1619.6	1626.1	1636.4	1645.4	1652.7	1663.4	1673.3	1675.0
10°	1575.9	1572.0	1587.0	1603.8	1632.1	1656.5	1672.4	1684.8	1695.6	1697.3
12.5°	1531.7	1527.0	1543.7	1566.4	1612.3	1656.5	1690.0	1706.3	1715.7	1721.3
15°	1524.4	1520.5	1530.0	1549.7	1587.9	1644.9	1702.0	1732.0	1740.2	1746.6
17.5°	1559.6	1552.3	1556.1	1563.0	1585.3	1634.2	1711.4	1761.2	1773.7	1780.5
20°	1641.1	1630.8	1624.8	1611.0	1607.2	1635.9	1710.6	1796.4	1812.7	1821.3
22.5°	1749.6	1742.8	1729.9	1695.1	1657.4	1657.0	1726.9	1841.4	1871.9	1880.1
25°	1880.9	1870.6	1854.3	1807.1	1734.6	1698.6	1754.3	1898.9	1950.0	1952.1
27.5°	2031.9	2016.5	1994.2	1932.0	1834.1	1763.8	1796.4	1965.0	2039.7	2038.8
30°	2191.1	2175.7	2152.1	2076.6	1953.4	1851.7	1854.7	2036.2	2146.1	2141.3
32.5°	2307.4	2295.8	2291.1	2232.7	2090.7	1955.6	1921.7	2115.2	2277.3	2273.1
35°	2396.6	2381.6	2387.2	2357.6	2240.4	2071.8	2003.6	2209.1	2436.9	2436.5
37.5°	2485.0	2471.7	2476.4	2456.7	2379.0	2219.4	2103.6	2324.1	2634.7	2644.2
40°	2565.7	2551.5	2570.4	2551.9	2486.7	2376.5	2217.3	2454.1	2863.8	2881.9
42.5°	2614.1	2603.0	2634.3	2634.7	2580.2	2509.0	2342.1	2597.4	3129.0	3169.3
45°	2630.9	2627.0	2674.2	2684.1	2663.1	2585.8	2454.5	2753.6	3414.7	3486.8
47.5°	2612.9	2605.6	2670.8	2707.2	2724.0	2621.9	2547.6	2922.6	3706.5	3812.0
50°	2521.9	2507.7	2604.7	2681.5	2741.1	2645.5	2641.6	3117.8	4038.1	4153.5
52.5°	2358.4	2347.7	2458.0	2591.4	2703.4	2657.0	2747.1	3331.1	4353.0	4502.3
55°	2149.5	2135.3	2256.7	2430.9	2609.4	2653.2	2852.7	3569.6	4724.6	4876.0
57.5°	1818.3	1790.0	1943.6	2149.5	2456.3	2648.5	2962.5	3806.9	5102.1	5283.6
60°	1335.2	1293.1	1481.5	1725.6	2156.8	2602.6	3098.5	4072.9	5555.2	5718.7
62.5°	777.4	753.0	876.1	1103.9	1625.6	2332.3	3174.9	4382.2	6000.6	6172.2
65°	603.7	596.8	607.5	625.1	904.8	1746.2	2939.4	4683.8	6566.9	6687.0
67.5°	552.2	547.0	551.7	518.7	459.1	972.6	2325.4	4760.2	7173.5	7246.5
70°	490.8	484.8	500.3	471.9	361.3	442.3	1502.5	4483.0	7656.2	7793.1
72.5°	399.9	393.0	429.0	416.2	304.2	284.0	754.7	3824.5	7605.6	7889.6
75°	307.2	303.3	346.2	357.0	248.0	223.5	362.1	2842.8	6693.0	6979.2
77.5°	238.5	235.5	257.4	296.5	199.9	173.3	222.7	1803.3	5043.8	5094.0
80°	178.9	170.3	190.5	229.5	155.7	126.6	151.0	1051.6	3188.2	2890.0
82.5°	112.0	107.7	124.4	153.2	109.8	87.1	98.3	580.9	1277.7	752.5
85°	63.9	62.2	67.8	87.5	59.6	50.2	56.2	256.6	233.4	160.5
87.5°	25.7	24.9	30.9	39.0	21.9	18.4	19.7	61.8	51.5	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946936
 CATALOG NUMBER: GALN-SB2B-940-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1628.2	0°	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2
1634.6	2.5°	1632.9	1632.9	1626.9	1617.5	1606.8	1599.9	1588.7	1585.7	1574.1	1570.7
1649.2	5°	1652.7	1649.2	1630.8	1604.2	1567.7	1534.2	1497.3	1474.2	1441.6	1430.0
1678.0	7.5°	1677.5	1668.1	1636.4	1578.0	1501.6	1426.6	1348.5	1289.3	1232.6	1212.5
1701.6	10°	1700.3	1687.0	1632.9	1530.8	1398.7	1268.7	1144.2	1057.2	991.1	964.1
1727.7	12.5°	1723.0	1698.6	1610.2	1452.3	1252.4	1076.0	943.5	875.7	834.9	802.3
1749.2	15°	1744.5	1710.2	1575.0	1347.2	1091.9	913.0	815.2	761.1	728.5	707.1
1780.5	17.5°	1769.4	1720.0	1522.2	1213.8	939.2	800.2	720.4	687.8	681.3	678.7
1823.4	20°	1804.1	1729.0	1452.7	1064.4	826.8	710.1	668.9	665.9	665.4	664.2
1874.9	22.5°	1841.4	1739.8	1360.9	928.9	731.1	653.9	646.6	640.6	636.7	636.3
1937.1	25°	1885.6	1743.2	1245.9	817.7	649.6	627.3	618.7	609.7	607.1	607.1
2007.9	27.5°	1928.5	1731.6	1112.1	721.2	603.7	602.8	591.6	588.6	588.2	589.5
2088.6	30°	1971.4	1709.7	979.1	632.0	577.1	577.1	573.2	575.3	577.1	581.3
2199.3	32.5°	2029.4	1686.6	867.9	565.9	553.9	549.6	553.5	557.8	559.5	565.0
2344.7	35°	2114.3	1670.3	779.6	529.9	529.9	524.3	526.4	525.6	521.7	519.1
2520.6	37.5°	2226.7	1669.4	706.6	513.1	509.7	508.8	509.3	503.7	488.7	470.7
2733.4	40°	2361.9	1692.6	650.4	501.5	499.0	504.1	501.5	486.5	445.3	414.0
2995.1	42.5°	2543.3	1758.6	614.4	487.4	495.1	501.5	491.3	439.3	411.4	390.4
3293.3	45°	2757.0	1865.9	595.9	472.4	487.8	495.5	445.8	423.0	400.7	375.4
3618.5	47.5°	2999.0	2001.0	591.6	458.2	471.5	476.2	426.5	416.2	390.9	363.4
3945.5	50°	3262.4	2161.1	603.2	441.5	447.9	431.6	420.0	410.6	384.4	357.4
4280.5	52.5°	3534.9	2337.4	626.4	418.7	424.3	406.3	417.5	409.3	380.6	344.1
4626.8	55°	3802.6	2515.0	648.7	392.1	400.3	383.6	410.2	404.2	363.0	321.8
4996.2	57.5°	4074.6	2691.8	670.6	368.5	377.1	361.7	398.6	390.4	343.2	301.2
5399.5	60°	4357.3	2863.4	680.9	345.8	351.8	341.5	381.0	366.8	320.9	280.2
5795.9	62.5°	4622.0	3006.3	664.2	323.1	326.9	322.6	357.8	338.9	298.6	256.6
6209.1	65°	4887.6	3091.2	612.7	300.8	301.6	299.5	325.2	308.9	272.4	236.0
6570.7	67.5°	5128.3	3138.9	530.7	276.7	274.6	273.7	294.8	276.3	247.1	215.4
6845.8	70°	5179.4	3017.9	405.4	248.4	248.4	246.3	261.3	242.4	219.2	193.5
6648.8	72.5°	4730.6	2538.6	287.9	216.2	219.7	215.4	227.8	211.9	190.9	173.8
5730.3	75°	3814.6	1861.6	209.4	183.2	189.2	181.9	193.5	182.3	164.3	163.9
3948.9	77.5°	2621.0	1151.1	151.9	151.0	155.3	145.9	159.2	153.2	136.9	129.6
1718.7	80°	1118.5	459.1	110.7	116.7	116.7	108.1	123.6	125.3	111.1	107.7
331.6	82.5°	222.7	130.4	77.7	80.2	75.5	72.9	87.5	97.0	133.9	148.9
100.0	85°	66.9	48.1	46.8	43.8	38.6	39.0	51.5	97.4	120.1	68.6
33.0	87.5°	18.4	12.0	12.4	9.9	8.2	10.7	17.6	73.8	40.3	17.2
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>
1628.2
1576.3
1438.6
1215.0
970.1
813.0
710.9
680.5
668.4
641.0
609.7
592.9
584.4
569.8
525.1
471.1
413.2
389.6
373.7
361.3
354.4
341.5
319.6
300.3
278.9
256.1
233.4
212.8
192.6
168.6
147.6
121.4
107.7
149.3
59.2
14.6
0.0

F REPORT)