

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: P949446

Luminaire Tested: **GALN-SB4A-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10846 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

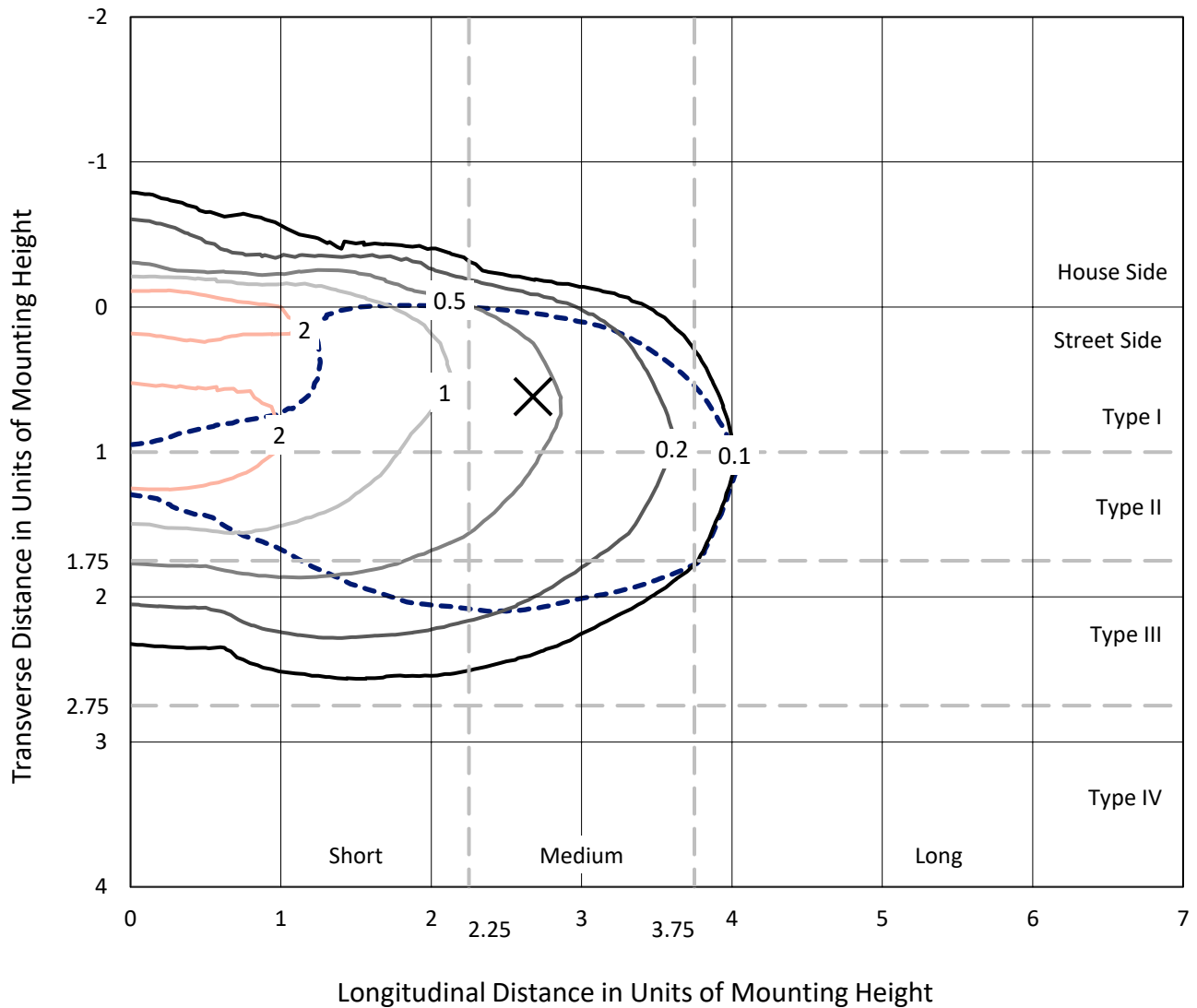
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949446
 CATALOG NUMBER: GALN-SB4A-940-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

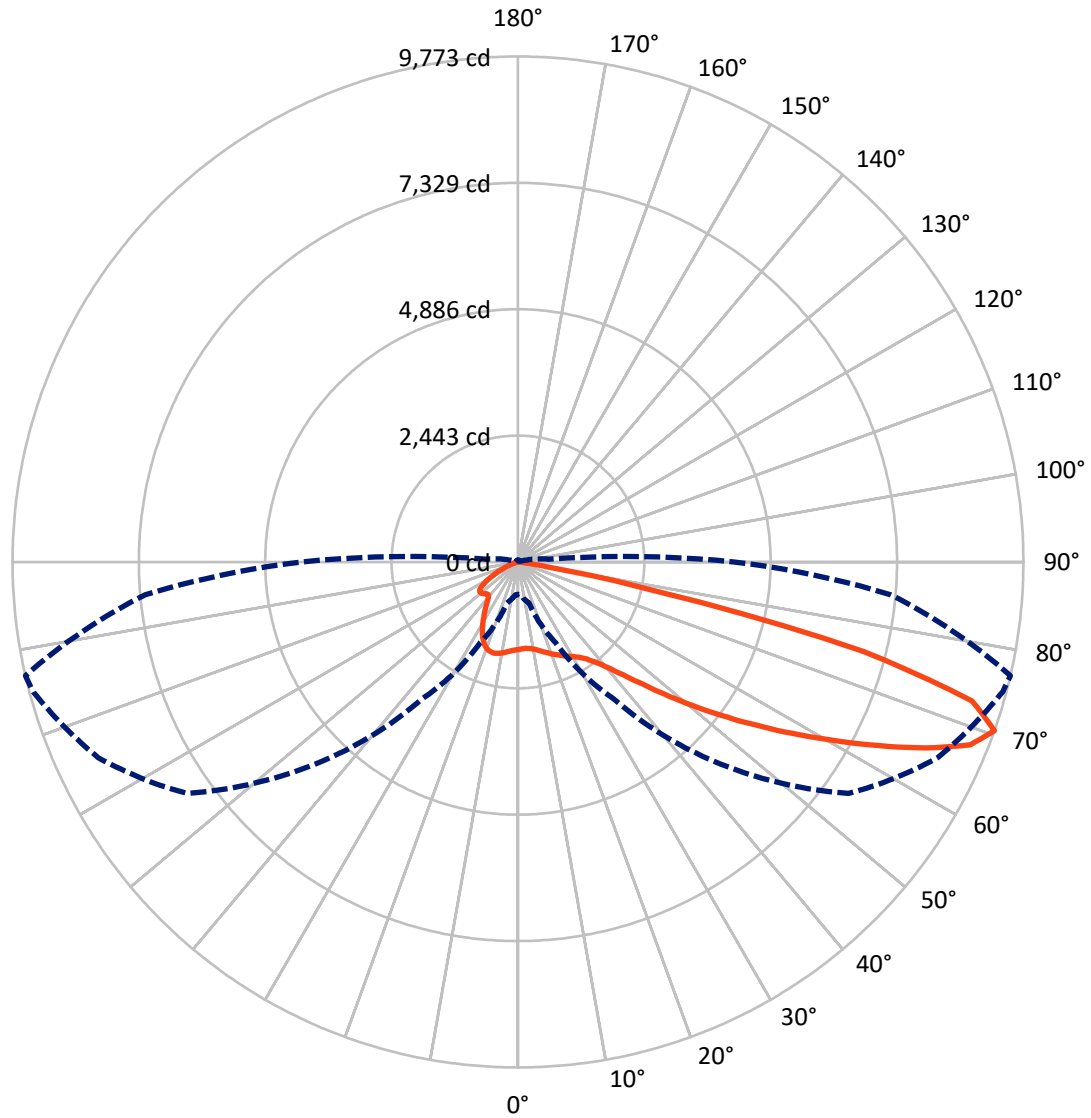
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P949446
CATALOG NUMBER: GALN-SB4A-940-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P949446
 CATALOG NUMBER: GALN-SB4A-940-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.3	0.0	1143.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9702.7	0.0	9702.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	10846.0	0.0	10846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	1.3
10°-20°	346.1	3.2
20°-30°	535.4	4.9
30°-40°	971.4	9.0
40°-50°	1833.7	16.9
50°-60°	2649.5	24.4
60°-70°	2820.4	26.0
70°-80°	1494.6	13.8
80°-90°	49.1	0.5
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°	10846.0	100.0
0°-180°	10846.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949446

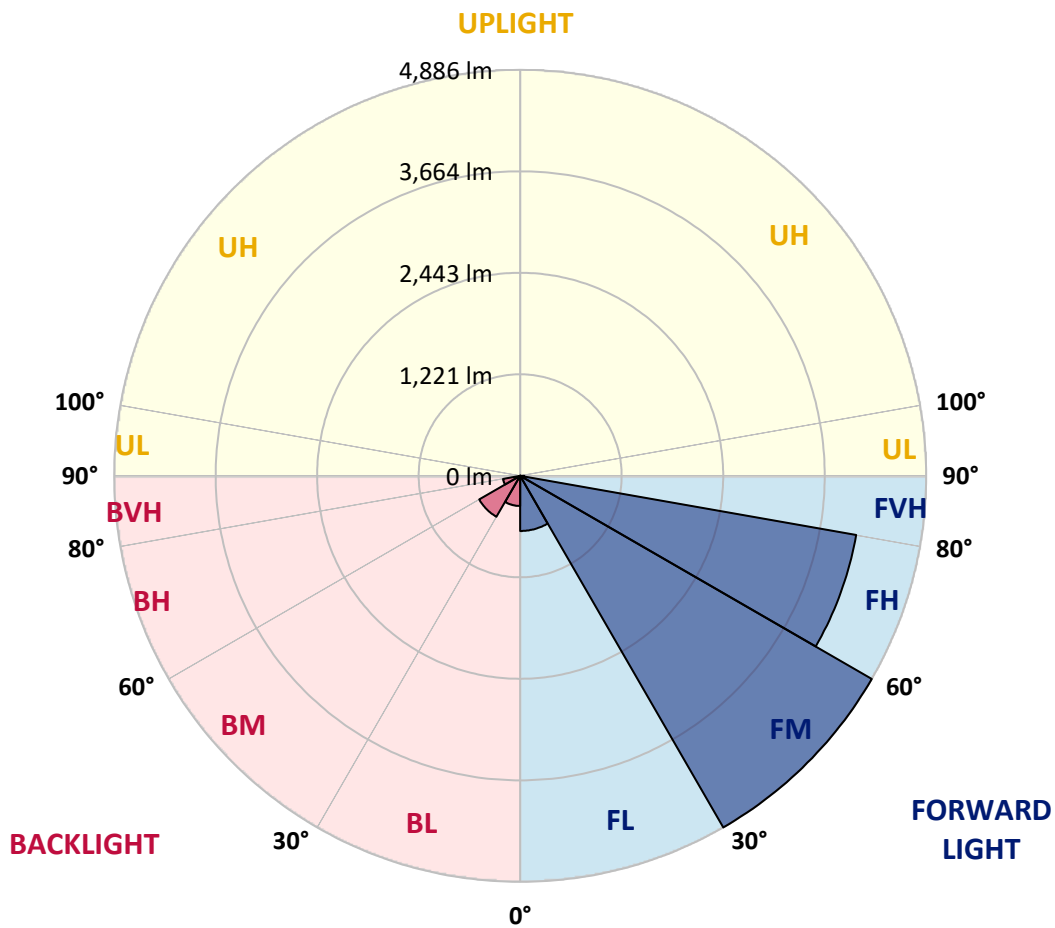
CATALOG NUMBER: GALN-SB4A-940-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.0	6.1			
FM (30°-60°)	4885.5	45.0			
FH (60°-80°)	4105.4	37.9			G2/5000
FVH (80°-90°)	47.8	0.4			G1/100
BL (0°-30°)	363.3	3.3	B1/500		
BM (30°-60°)	569.2	5.2	B1/1000		
BH (60°-80°)	209.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



REPORT NUMBER: P949446
 CATALOG NUMBER: GALN-SB4A-940-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8
2.5°	1588.4	1602.7	1600.7	1610.3	1613.7	1627.4	1641.1	1659.6	1680.1	1679.5
5°	1498.6	1513.0	1516.4	1529.5	1545.9	1567.1	1595.2	1632.2	1670.5	1676.7
7.5°	1392.5	1407.5	1416.4	1442.5	1472.6	1516.4	1562.3	1616.4	1680.1	1689.0
10°	1286.3	1300.0	1311.6	1348.6	1396.6	1461.6	1536.3	1614.4	1700.0	1713.0
12.5°	1220.5	1233.6	1246.6	1278.8	1338.4	1417.8	1519.2	1624.0	1732.9	1751.4
15°	1197.3	1208.9	1219.2	1247.9	1303.4	1393.8	1515.8	1643.8	1774.7	1799.3
17.5°	1200.7	1206.8	1213.7	1235.6	1289.7	1382.9	1521.9	1678.1	1824.0	1845.9
20°	1220.5	1224.0	1224.7	1239.7	1287.7	1381.5	1534.2	1711.0	1870.5	1900.0
22.5°	1245.9	1247.3	1245.9	1256.2	1300.7	1391.8	1550.7	1750.7	1922.6	1950.0
25°	1364.4	1338.4	1305.5	1285.6	1322.6	1411.6	1575.3	1804.1	1979.5	2006.2
27.5°	1732.2	1657.5	1539.7	1407.5	1367.8	1440.4	1609.6	1858.2	2037.0	2061.0
30°	2329.5	2231.5	2031.5	1733.6	1513.0	1500.7	1654.1	1912.3	2097.9	2124.0
32.5°	2928.1	2904.1	2673.3	2261.0	1839.7	1634.9	1728.1	1985.6	2178.8	2199.3
35°	3533.6	3484.9	3295.9	2888.4	2343.1	1908.2	1851.4	2081.5	2284.9	2308.2
37.5°	3997.3	3967.8	3850.7	3515.1	2940.4	2330.1	2062.3	2230.1	2439.0	2465.1
40°	4406.8	4393.1	4353.4	4132.2	3608.2	2882.2	2390.4	2460.3	2652.7	2683.6
42.5°	4728.8	4761.0	4783.6	4721.9	4296.6	3512.3	2831.5	2783.6	2950.7	2982.2
45°	5058.2	5069.2	5160.3	5249.3	4980.1	4171.2	3328.8	3162.3	3321.2	3360.3
47.5°	5269.9	5313.7	5474.0	5630.8	5554.8	4824.7	3863.0	3609.6	3750.7	3824.0
50°	5285.6	5368.5	5589.0	5862.3	5973.3	5446.6	4443.8	4119.2	4269.2	4350.0
52.5°	5023.3	5152.1	5493.8	5893.8	6199.3	5973.3	5044.5	4628.8	4821.2	4926.7
55°	3851.4	4019.9	5135.6	5722.6	6208.2	6372.6	5629.4	5159.6	5436.3	5555.5
57.5°	3355.5	3440.4	4037.7	5425.3	6043.1	6533.6	6158.2	5665.1	6105.5	6253.4
60°	2791.8	2903.4	3386.3	4939.0	5819.2	6549.3	6625.3	6317.1	6830.8	6997.3
62.5°	1897.3	2018.5	2498.6	4103.4	5513.0	6541.8	7008.2	6988.4	7637.0	7815.8
65°	1175.3	1251.4	1567.8	3350.7	5084.9	6550.0	7408.9	7803.4	8487.7	8669.2
67.5°	928.8	963.7	1128.8	2572.6	4347.3	6365.1	7808.9	8569.9	9288.4	9432.2
70°	624.0	645.2	821.2	1724.7	3234.2	5511.6	7801.4	8954.8	9700.7	9772.6
72.5°	328.8	345.2	480.1	798.6	1953.4	3917.8	6576.0	8494.5	9290.4	9182.2
75°	164.4	191.8	323.3	405.5	834.2	2184.9	4083.6	6697.3	7312.3	6893.1
77.5°	124.7	150.7	267.1	267.1	290.4	735.6	1729.5	3652.7	3369.2	2805.5
80°	79.5	102.7	233.6	202.1	121.2	187.0	450.7	1023.3	715.8	544.5
82.5°	46.6	67.1	194.5	133.6	67.8	69.2	127.4	217.8	185.6	144.5
85°	18.5	43.8	133.6	52.7	26.7	17.1	38.4	46.6	38.4	28.8
87.5°	0.0	10.3	23.3	0.0	2.1	1.4	2.7	3.4	3.4	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949446
 CATALOG NUMBER: GALN-SB4A-940-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1691.8	0°	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8
1693.1	2.5°	1699.3	1700.7	1704.8	1705.5	1695.9	1683.6	1678.8	1676.7	1668.5	1667.8
1704.1	5°	1719.9	1726.0	1719.9	1702.1	1659.6	1600.0	1554.8	1517.8	1484.2	1474.0
1741.8	7.5°	1761.0	1767.1	1748.6	1678.8	1571.9	1453.4	1346.6	1271.2	1203.4	1178.1
1787.7	10°	1819.9	1828.1	1769.9	1628.8	1439.7	1249.3	1068.5	941.1	841.8	801.4
1850.0	12.5°	1893.8	1897.3	1781.5	1552.7	1267.8	995.9	739.7	603.4	515.1	482.2
1925.3	15°	1975.3	1970.5	1782.9	1449.3	1033.6	704.1	482.9	396.6	361.0	350.0
2000.7	17.5°	2061.0	2041.1	1755.5	1300.0	776.7	481.5	358.2	337.7	331.5	328.8
2075.3	20°	2145.2	2100.7	1705.5	1104.8	557.5	359.6	325.3	319.2	315.8	314.4
2150.7	22.5°	2221.9	2145.9	1619.9	878.1	404.8	317.8	307.5	302.1	295.9	293.2
2224.0	25°	2296.6	2171.9	1499.3	666.4	324.0	297.3	289.0	278.8	270.5	267.1
2302.7	27.5°	2369.2	2188.4	1348.6	493.2	289.0	278.1	263.0	248.6	242.5	241.1
2387.0	30°	2446.6	2193.8	1177.4	367.8	267.8	254.1	232.2	215.8	212.3	213.0
2500.7	32.5°	2541.1	2202.1	1004.8	301.4	250.0	225.3	199.3	182.2	179.5	182.2
2666.4	35°	2654.1	2218.5	838.4	277.4	234.2	195.9	167.8	153.4	150.7	152.7
2878.8	37.5°	2807.5	2245.2	682.9	272.6	221.2	171.2	141.1	129.5	129.5	130.1
3139.0	40°	3011.6	2316.4	543.8	269.2	214.4	152.7	119.2	114.4	116.4	117.8
3470.5	42.5°	3260.3	2467.8	450.0	265.1	206.8	144.5	108.2	106.2	109.6	111.0
3867.8	45°	3539.0	2659.6	417.1	258.2	200.0	150.0	103.4	100.7	104.8	105.5
4313.0	47.5°	3827.4	2847.3	413.0	250.7	193.2	158.2	102.1	95.9	100.7	101.4
4788.4	50°	4119.2	2969.9	417.1	239.0	182.2	158.2	102.7	91.1	95.2	97.3
5281.5	52.5°	4413.0	3026.0	414.4	213.7	163.0	148.6	102.7	87.0	91.1	92.5
5814.4	55°	4697.9	3015.1	372.6	176.0	138.4	131.5	100.0	83.6	86.3	87.0
6317.8	57.5°	4923.3	2862.3	295.2	137.0	112.3	109.6	91.1	79.5	81.5	80.8
6779.4	60°	5041.1	2526.7	211.0	105.5	88.4	86.3	80.1	74.0	75.3	71.9
7170.5	62.5°	5042.5	2082.9	141.1	83.6	70.5	68.5	68.5	66.4	65.1	58.2
7473.3	65°	4934.9	1590.4	93.8	66.4	56.8	53.4	57.5	56.8	52.1	42.5
7565.8	67.5°	4691.1	1042.5	71.2	52.1	43.8	41.8	45.9	47.9	44.5	35.6
7228.8	70°	4189.7	606.8	58.9	40.4	32.9	30.8	37.0	41.1	37.0	28.8
6178.8	72.5°	3480.1	327.4	47.9	30.1	22.6	20.5	29.5	33.6	29.5	21.2
3964.4	75°	2258.2	175.3	37.0	19.9	11.6	13.0	21.9	24.7	20.5	13.7
1163.7	77.5°	758.2	77.4	23.3	9.6	5.5	5.5	13.0	15.1	9.6	4.8
211.6	80°	169.2	32.2	9.6	4.1	2.1	2.1	2.7	2.7	1.4	0.0
65.1	82.5°	55.5	13.0	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
16.4	85°	21.2	4.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.5	87.5°	8.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1691.8
1669.2
1467.8
1167.8
784.2
471.9
350.0
328.1
313.0
292.5
265.8
239.7
213.0
181.5
152.1
129.5
117.8
111.0
106.2
102.1
97.9
92.5
87.0
80.8
71.2
56.2
41.1
34.9
27.4
20.5
12.3
4.1
0.0
0.0
0.0
0.0
0.0

F REPORT)