

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: P949740

Luminaire Tested: **GALN-SB4B-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949740
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-SB4B-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA 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: 11437 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

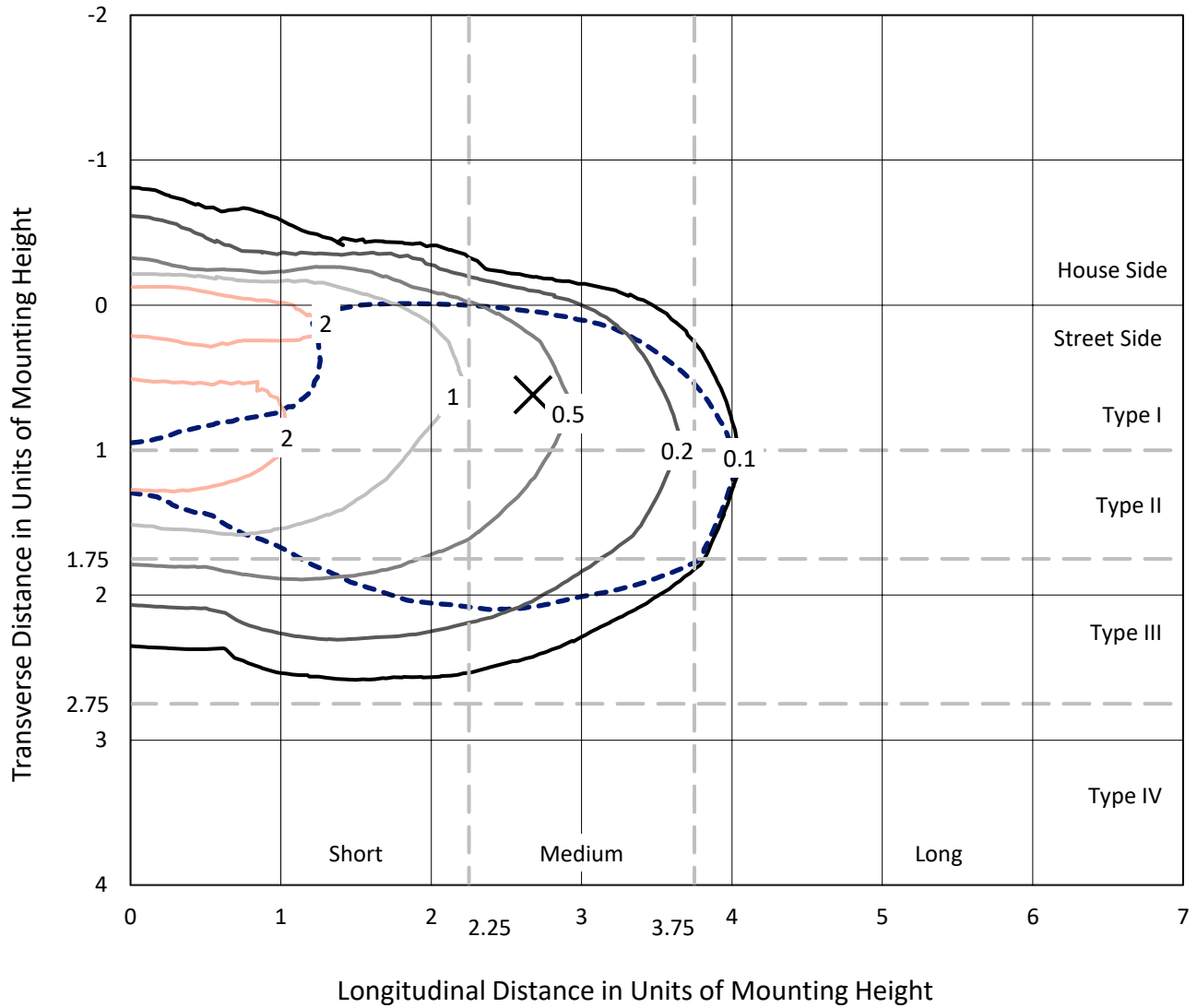
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949740
 CATALOG NUMBER: GALN-SB4B-927-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

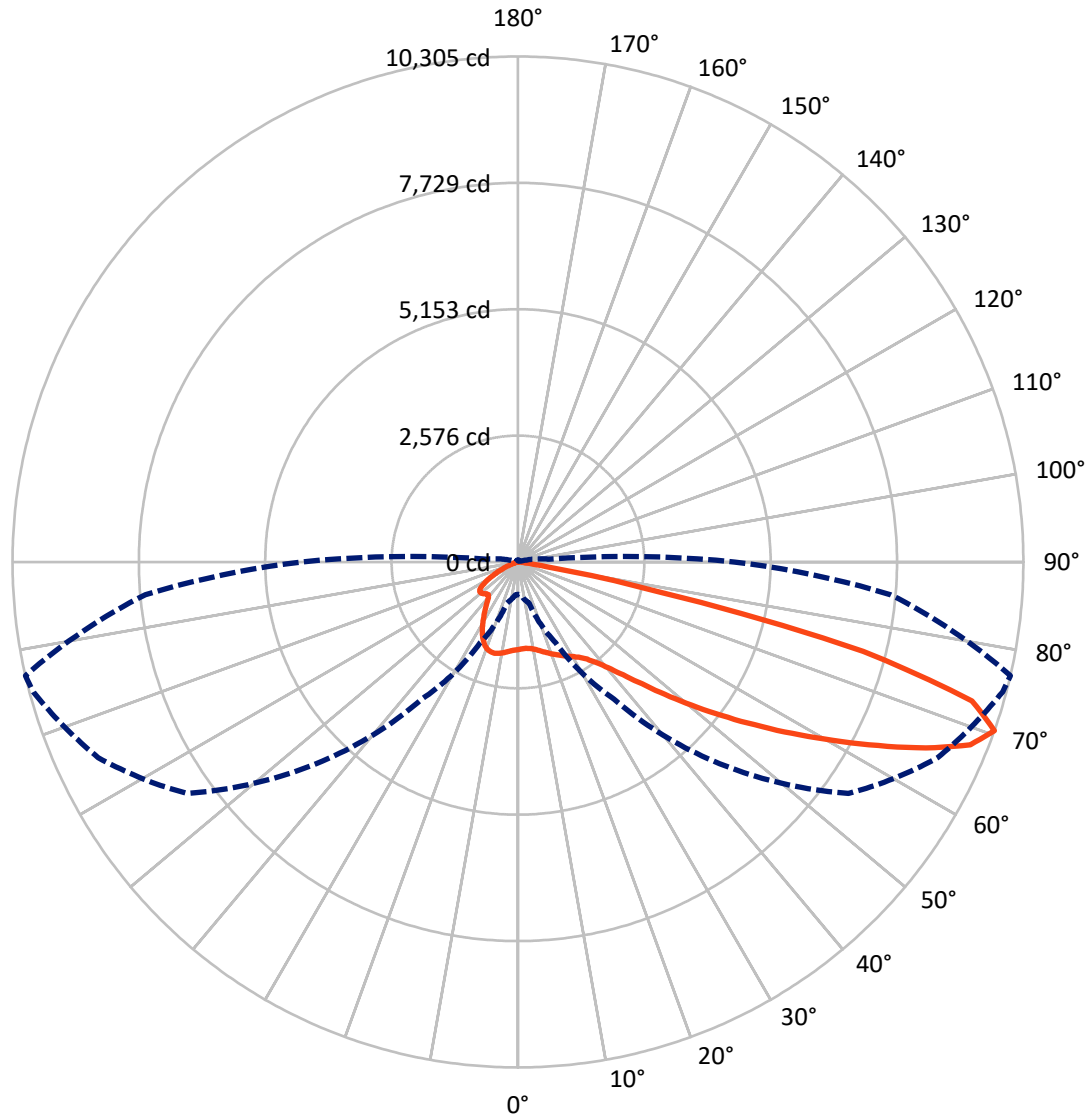
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P949740
CATALOG NUMBER: GALN-SB4B-927-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P949740
 CATALOG NUMBER: GALN-SB4B-927-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1205.6	0.0	1205.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10231.4	0.0	10231.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	11437.0	0.0	11437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	1.3
10°-20°	365.0	3.2
20°-30°	564.5	4.9
30°-40°	1024.4	9.0
40°-50°	1933.6	16.9
50°-60°	2793.9	24.4
60°-70°	2974.0	26.0
70°-80°	1576.0	13.8
80°-90°	51.7	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°	11437.0	100.0
0°-180°	11437.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949740

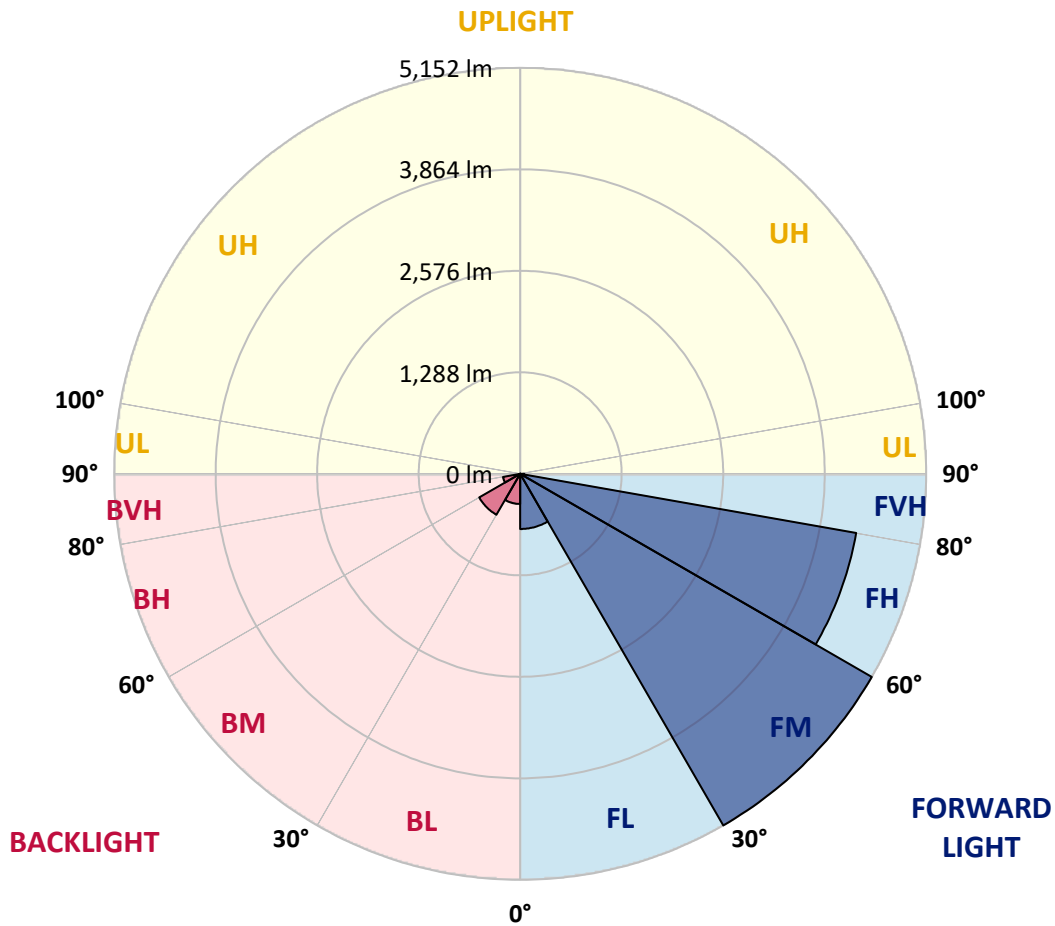
CATALOG NUMBER: GALN-SB4B-927-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.2	6.1			
FM (30°-60°)	5151.7	45.0			
FH (60°-80°)	4329.1	37.9			G2/5000
FVH (80°-90°)	50.4	0.4			G1/100
BL (0°-30°)	383.0	3.3	B1/500		
BM (30°-60°)	600.2	5.2	B1/1000		
BH (60°-80°)	221.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	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: P949740
 CATALOG NUMBER: GALN-SB4B-927-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1674.9	1690.1	1687.9	1698.0	1701.6	1716.1	1730.5	1750.0	1771.7	1771.0
5°	1580.3	1595.5	1599.1	1612.8	1630.1	1652.5	1682.1	1721.1	1761.6	1768.1
7.5°	1468.3	1484.2	1493.6	1521.1	1552.8	1599.1	1647.5	1704.5	1771.7	1781.1
10°	1356.4	1370.8	1383.1	1422.1	1472.7	1541.3	1620.0	1702.4	1792.6	1806.4
12.5°	1287.1	1300.8	1314.5	1348.4	1411.3	1495.1	1602.0	1712.5	1827.3	1846.8
15°	1262.5	1274.8	1285.6	1315.9	1374.4	1469.8	1598.3	1733.4	1871.4	1897.4
17.5°	1266.1	1272.6	1279.8	1302.9	1360.0	1458.2	1604.8	1769.5	1923.4	1946.5
20°	1287.1	1290.7	1291.4	1307.3	1357.8	1456.8	1617.8	1804.2	1972.5	2003.5
22.5°	1313.8	1315.2	1313.8	1324.6	1371.6	1467.6	1635.2	1846.1	2027.4	2056.3
25°	1438.7	1411.3	1376.6	1355.7	1394.7	1488.6	1661.2	1902.4	2087.3	2115.5
27.5°	1826.6	1747.9	1623.6	1484.2	1442.3	1518.9	1697.3	1959.5	2148.0	2173.3
30°	2456.4	2353.1	2142.2	1828.0	1595.5	1582.5	1744.2	2016.5	2212.3	2239.7
32.5°	3087.6	3062.4	2819.0	2384.2	1940.0	1724.0	1822.2	2093.8	2297.5	2319.2
35°	3726.1	3674.8	3475.5	3045.7	2470.8	2012.2	1952.3	2194.9	2409.4	2434.0
37.5°	4215.1	4184.0	4060.5	3706.6	3100.6	2457.1	2174.7	2351.7	2571.9	2599.4
40°	4647.0	4632.5	4590.6	4357.4	3804.8	3039.2	2520.7	2594.3	2797.3	2829.8
42.5°	4986.4	5020.4	5044.2	4979.2	4530.7	3703.7	2985.8	2935.2	3111.5	3144.7
45°	5333.8	5345.4	5441.5	5535.3	5251.5	4398.5	3510.2	3334.6	3502.2	3543.4
47.5°	5557.0	5603.2	5772.2	5937.6	5857.5	5087.6	4073.5	3806.3	3955.1	4032.3
50°	5573.6	5661.0	5893.6	6181.8	6298.8	5743.4	4686.0	4343.6	4501.8	4587.0
52.5°	5297.0	5432.8	5793.2	6215.0	6537.1	6298.8	5319.4	4881.0	5083.9	5195.2
55°	4061.2	4238.9	5415.5	6034.4	6546.5	6719.8	5936.2	5440.7	5732.5	5858.2
57.5°	3538.3	3627.9	4257.7	5721.0	6372.4	6889.6	6493.8	5973.8	6438.2	6594.2
60°	2943.9	3061.6	3570.8	5208.2	6136.3	6906.2	6986.4	6661.3	7203.0	7378.5
62.5°	2000.6	2128.5	2634.8	4327.0	5813.4	6898.2	7390.1	7369.1	8053.1	8241.6
65°	1239.4	1319.6	1653.2	3533.3	5362.0	6906.9	7812.6	8228.6	8950.2	9141.6
67.5°	979.4	1016.2	1190.3	2712.8	4584.1	6711.9	8234.4	9036.8	9794.5	9946.1
70°	658.0	680.4	866.0	1818.6	3410.5	5812.0	8226.5	9442.7	10229.3	10305.1
72.5°	346.7	364.0	506.3	842.1	2059.9	4131.3	6934.4	8957.4	9796.6	9682.5
75°	173.3	202.2	340.9	427.6	879.7	2304.0	4306.1	7062.2	7710.8	7268.8
77.5°	131.5	158.9	281.7	281.7	306.2	775.7	1823.7	3851.8	3552.8	2958.3
80°	83.8	108.3	246.3	213.1	127.8	197.2	475.2	1079.0	754.8	574.2
82.5°	49.1	70.8	205.1	140.8	71.5	72.9	134.3	229.7	195.7	152.4
85°	19.5	46.2	140.8	55.6	28.2	18.1	40.4	49.1	40.4	30.3
87.5°	0.0	10.8	24.6	0.0	2.2	1.4	2.9	3.6	3.6	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949740
 CATALOG NUMBER: GALN-SB4B-927-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1784.0	0°	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0
1785.4	2.5°	1791.9	1793.4	1797.7	1798.4	1788.3	1775.3	1770.2	1768.1	1759.4	1758.7
1797.0	5°	1813.6	1820.1	1813.6	1794.8	1750.0	1687.2	1639.5	1600.5	1565.1	1554.3
1836.7	7.5°	1856.9	1863.4	1843.9	1770.2	1657.6	1532.6	1419.9	1340.5	1269.0	1242.3
1885.1	10°	1919.0	1927.7	1866.3	1717.5	1518.2	1317.4	1126.7	992.4	887.6	845.0
1950.8	12.5°	1997.0	2000.6	1878.6	1637.3	1336.9	1050.2	780.0	636.3	543.1	508.5
2030.3	15°	2083.0	2077.9	1880.0	1528.3	1089.9	742.5	509.2	418.2	380.6	369.1
2109.7	17.5°	2173.3	2152.3	1851.1	1370.8	819.0	507.7	377.7	356.1	349.6	346.7
2188.4	20°	2262.1	2215.2	1798.4	1165.0	587.9	379.2	343.1	336.6	333.0	331.5
2267.9	22.5°	2343.0	2262.8	1708.1	925.9	426.9	335.1	324.3	318.5	312.0	309.1
2345.2	25°	2421.7	2290.3	1581.0	702.8	341.6	313.5	304.8	294.0	285.3	281.7
2428.2	27.5°	2498.3	2307.6	1422.1	520.0	304.8	293.2	277.3	262.2	255.7	254.2
2517.1	30°	2579.9	2313.4	1241.6	387.8	282.4	268.0	244.8	227.5	223.9	224.6
2636.9	32.5°	2679.6	2322.0	1059.5	317.8	263.6	237.6	210.2	192.1	189.2	192.1
2811.7	35°	2798.7	2339.4	884.0	292.5	247.0	206.6	177.0	161.8	158.9	161.1
3035.6	37.5°	2960.5	2367.5	720.1	287.5	233.3	180.6	148.8	136.5	136.5	137.2
3310.1	40°	3175.7	2442.7	573.5	283.8	226.1	161.1	125.7	120.6	122.8	124.2
3659.7	42.5°	3437.9	2602.3	474.5	279.5	218.1	152.4	114.1	111.9	115.6	117.0
4078.6	45°	3731.9	2804.5	439.9	272.3	210.9	158.2	109.1	106.2	110.5	111.2
4548.0	47.5°	4036.0	3002.4	435.5	264.3	203.7	166.8	107.6	101.1	106.2	106.9
5049.3	50°	4343.6	3131.7	439.9	252.1	192.1	166.8	108.3	96.1	100.4	102.6
5569.3	52.5°	4653.5	3190.9	437.0	225.3	171.9	156.7	108.3	91.7	96.1	97.5
6131.2	55°	4953.9	3179.4	392.9	185.6	145.9	138.7	105.4	88.1	91.0	91.7
6662.1	57.5°	5191.6	3018.3	311.3	144.5	118.4	115.6	96.1	83.8	85.9	85.2
7148.9	60°	5315.8	2664.4	222.5	111.2	93.2	91.0	84.5	78.0	79.4	75.8
7561.3	62.5°	5317.2	2196.4	148.8	88.1	74.4	72.2	72.2	70.1	68.6	61.4
7880.5	65°	5203.8	1677.1	98.9	70.1	59.9	56.3	60.7	59.9	54.9	44.8
7978.0	67.5°	4946.7	1099.3	75.1	54.9	46.2	44.1	48.4	50.6	46.9	37.6
7622.7	70°	4418.0	639.9	62.1	42.6	34.7	32.5	39.0	43.3	39.0	30.3
6515.4	72.5°	3669.8	345.2	50.6	31.8	23.8	21.7	31.1	35.4	31.1	22.4
4180.4	75°	2381.3	184.9	39.0	20.9	12.3	13.7	23.1	26.0	21.7	14.4
1227.1	77.5°	799.5	81.6	24.6	10.1	5.8	5.8	13.7	15.9	10.1	5.1
223.2	80°	178.4	33.9	10.1	4.3	2.2	2.2	2.9	2.9	1.4	0.0
68.6	82.5°	58.5	13.7	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
17.3	85°	22.4	5.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	8.7	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>
1784.0
1760.1
1547.8
1231.4
827.0
497.6
369.1
346.0
330.1
308.4
280.2
252.8
224.6
191.4
160.3
136.5
124.2
117.0
111.9
107.6
103.3
97.5
91.7
85.2
75.1
59.2
43.3
36.8
28.9
21.7
13.0
4.3
0.0
0.0
0.0
0.0
0.0

F REPORT)