

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: P947241

Luminaire Tested: **GALN-SB2C-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947241  
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-SB2C-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

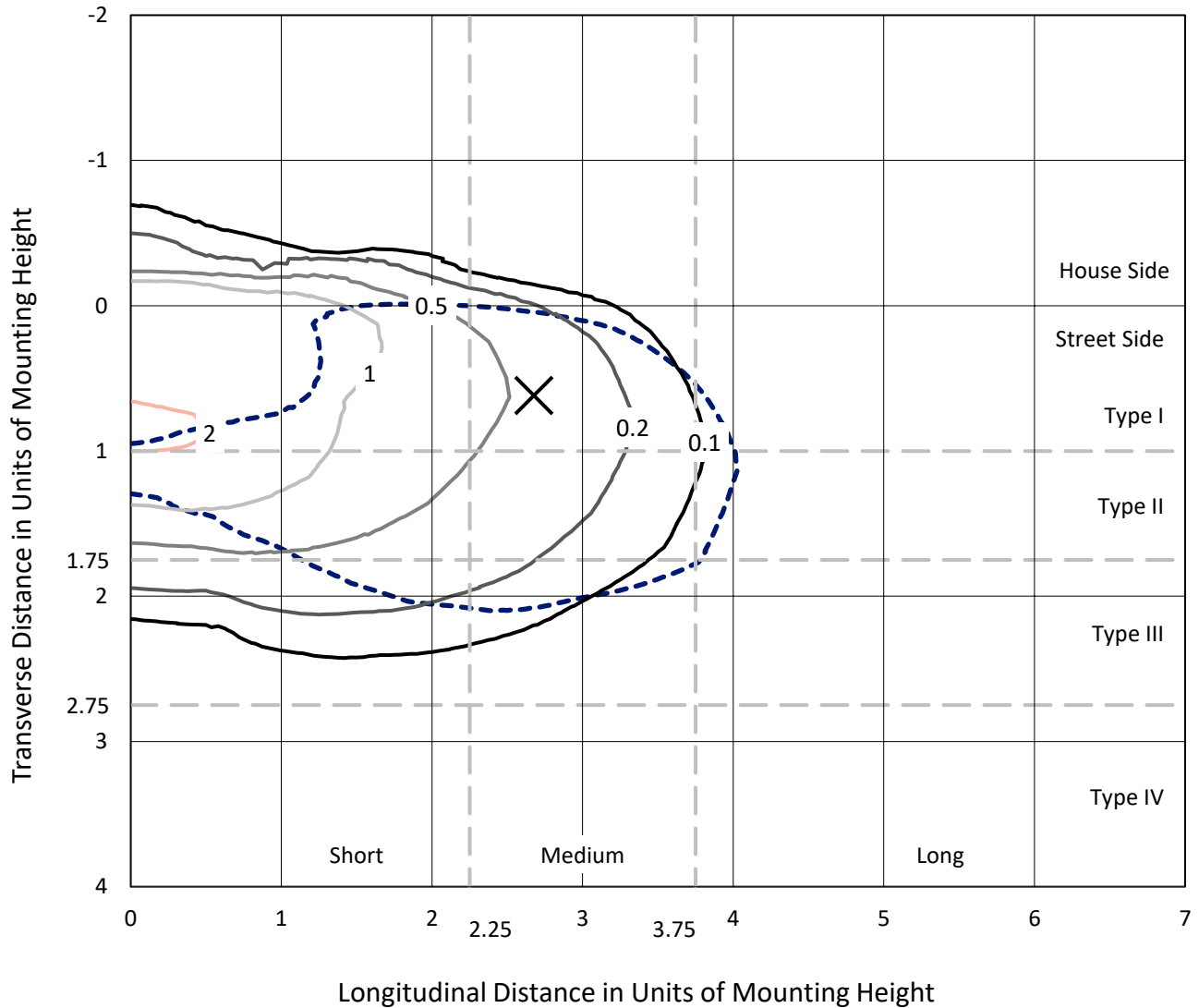
Lumens per Lamp: N/A  
Luminaire Lumens: 7590 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947241  
 CATALOG NUMBER: GALN-SB2C-927-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

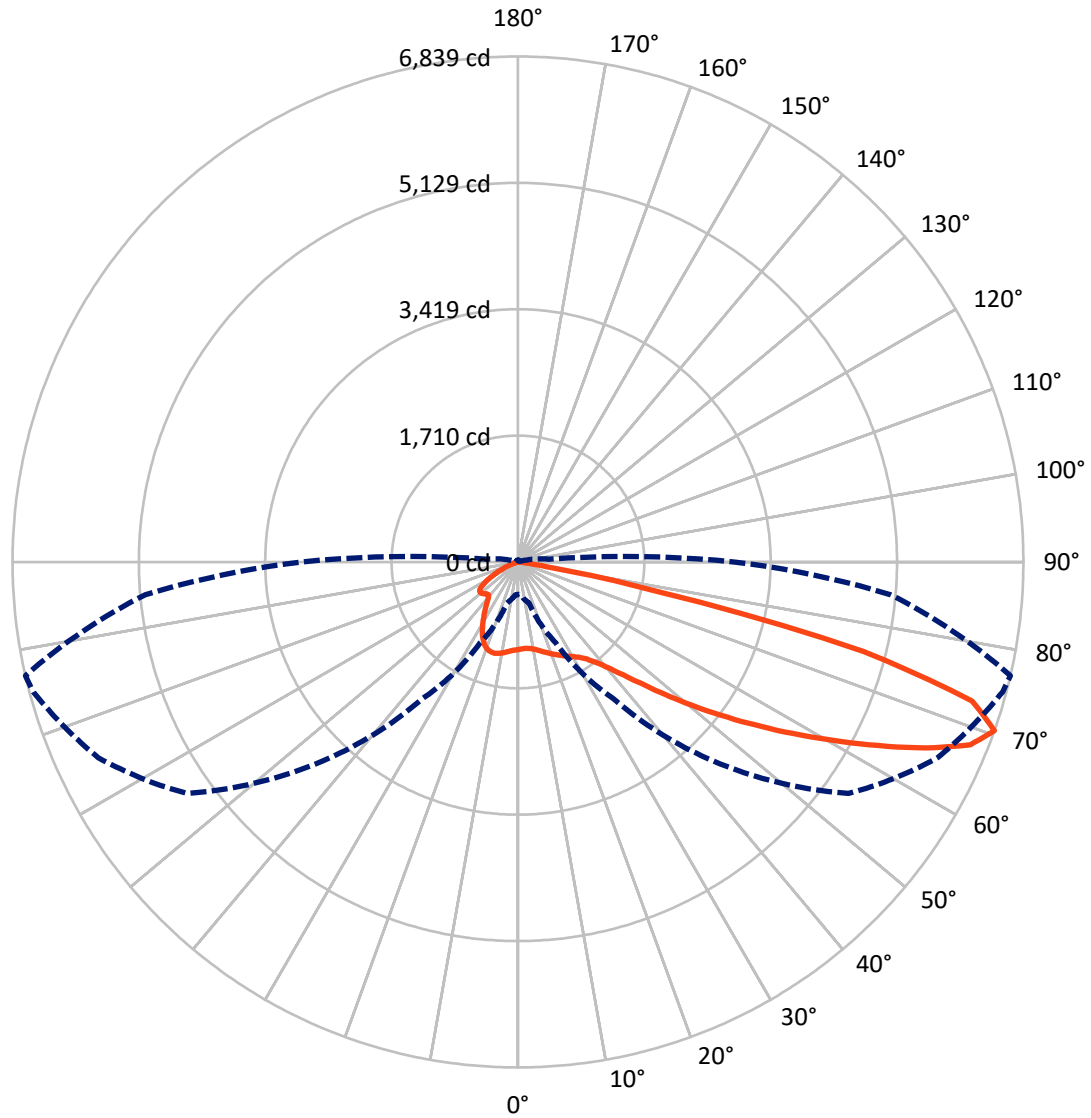
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P947241  
CATALOG NUMBER: GALN-SB2C-927-U-T3R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P947241  
 CATALOG NUMBER: GALN-SB2C-927-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	800.1	0.0	800.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6789.9	0.0	6789.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7590.0	0.0	7590.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	1.3
10°-20°	242.2	3.2
20°-30°	374.6	4.9
30°-40°	679.8	9.0
40°-50°	1283.2	16.9
50°-60°	1854.1	24.4
60°-70°	1973.7	26.0
70°-80°	1045.9	13.8
80°-90°	34.3	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°	7590.0	100.0
0°-180°	7590.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947241

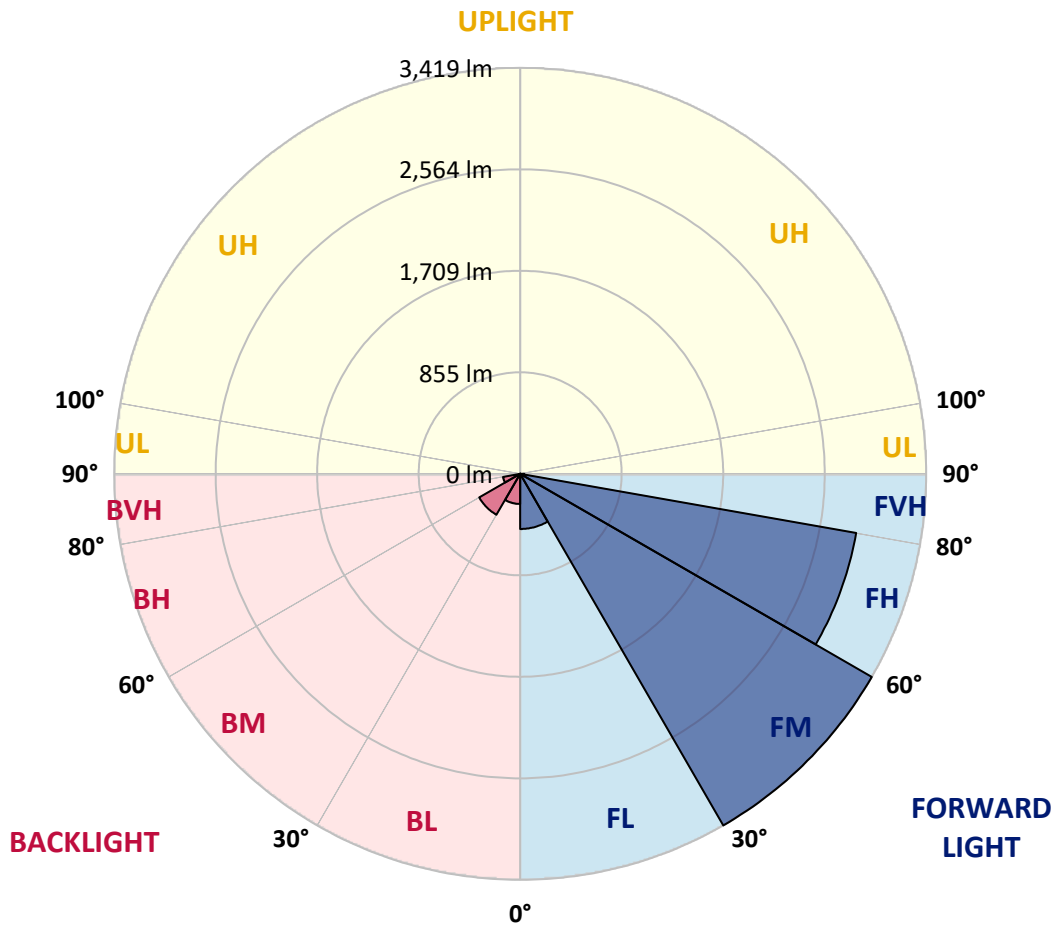
CATALOG NUMBER: GALN-SB2C-927-U-T3R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.7	6.1			
FM (30°-60°)	3418.9	45.0			
FH (60°-80°)	2872.9	37.9			G2/5000
FVH (80°-90°)	33.4	0.4			G1/100
BL (0°-30°)	254.2	3.3	B1/500		
BM (30°-60°)	398.3	5.2	B1/1000		
BH (60°-80°)	146.7	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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: P947241  
 CATALOG NUMBER: GALN-SB2C-927-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9
2.5°	1111.5	1121.6	1120.2	1126.9	1129.3	1138.8	1148.4	1161.4	1175.8	1175.3
5°	1048.7	1058.8	1061.2	1070.3	1081.8	1096.7	1116.3	1142.2	1169.0	1173.4
7.5°	974.4	985.0	991.2	1009.4	1030.5	1061.2	1093.3	1131.2	1175.8	1182.0
10°	900.1	909.7	917.9	943.8	977.3	1022.9	1075.1	1129.7	1189.7	1198.8
12.5°	854.1	863.2	872.3	894.9	936.6	992.2	1063.1	1136.5	1212.7	1225.6
15°	837.8	846.0	853.2	873.3	912.1	975.4	1060.7	1150.4	1241.9	1259.2
17.5°	840.2	844.5	849.3	864.7	902.5	967.7	1065.0	1174.3	1276.4	1291.7
20°	854.1	856.5	857.0	867.6	901.1	966.8	1073.7	1197.3	1309.0	1329.6
22.5°	871.9	872.8	871.9	879.1	910.2	974.0	1085.2	1225.1	1345.4	1364.6
25°	954.8	936.6	913.6	899.7	925.6	987.9	1102.4	1262.5	1385.2	1403.9
27.5°	1212.2	1159.9	1077.5	985.0	957.2	1008.0	1126.4	1300.4	1425.5	1442.3
30°	1630.1	1561.6	1421.6	1213.1	1058.8	1050.2	1157.5	1338.2	1468.1	1486.3
32.5°	2049.1	2032.3	1870.8	1582.2	1287.4	1144.1	1209.3	1389.5	1524.7	1539.1
35°	2472.8	2438.7	2306.5	2021.3	1639.7	1335.4	1295.6	1456.6	1599.0	1615.3
37.5°	2797.3	2776.7	2694.7	2459.8	2057.7	1630.6	1443.2	1560.6	1706.8	1725.0
40°	3083.9	3074.3	3046.5	2891.7	2525.0	2016.9	1672.8	1721.7	1856.4	1877.9
42.5°	3309.2	3331.7	3347.5	3304.4	3006.7	2457.9	1981.5	1947.9	2064.9	2086.9
45°	3539.7	3547.4	3611.1	3673.5	3485.1	2919.0	2329.5	2213.0	2324.2	2351.5
47.5°	3687.8	3718.5	3830.7	3940.4	3887.2	3376.3	2703.3	2526.0	2624.7	2676.0
50°	3698.9	3756.9	3911.2	4102.4	4180.1	3811.5	3109.8	2882.6	2987.6	3044.1
52.5°	3515.3	3605.4	3844.6	4124.5	4338.3	4180.1	3530.1	3239.2	3373.9	3447.7
55°	2695.2	2813.1	3593.9	4004.7	4344.5	4459.5	3939.5	3610.7	3804.3	3887.7
57.5°	2348.2	2407.6	2825.5	3796.6	4229.0	4572.2	4309.5	3964.4	4272.6	4376.1
60°	1953.7	2031.8	2369.7	3456.3	4072.2	4583.2	4636.4	4420.7	4780.2	4896.7
62.5°	1327.7	1412.5	1748.5	2871.6	3858.0	4577.9	4904.3	4890.4	5344.3	5469.4
65°	822.5	875.7	1097.1	2344.8	3558.4	4583.7	5184.7	5460.8	5939.6	6066.7
67.5°	649.9	674.4	789.9	1800.3	3042.2	4454.3	5464.6	5997.2	6500.0	6600.6
70°	436.7	451.5	574.7	1206.9	2263.3	3857.0	5459.4	6266.5	6788.5	6838.8
72.5°	230.1	241.6	336.0	558.9	1367.0	2741.7	4601.9	5944.4	6501.4	6425.7
75°	115.0	134.2	226.2	283.8	583.8	1529.0	2857.7	4686.7	5117.1	4823.8
77.5°	87.2	105.4	186.9	186.9	203.2	514.8	1210.3	2556.2	2357.7	1963.3
80°	55.6	71.9	163.4	141.4	84.8	130.9	315.4	716.1	500.9	381.1
82.5°	32.6	47.0	136.1	93.5	47.5	48.4	89.2	152.4	129.9	101.1
85°	12.9	30.7	93.5	36.9	18.7	12.0	26.8	32.6	26.8	20.1
87.5°	0.0	7.2	16.3	0.0	1.4	1.0	1.9	2.4	2.4	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947241  
 CATALOG NUMBER: GALN-SB2C-927-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1183.9	0°	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9
1184.9	2.5°	1189.2	1190.1	1193.0	1193.5	1186.8	1178.2	1174.8	1173.4	1167.6	1167.1
1192.5	5°	1203.6	1207.9	1203.6	1191.1	1161.4	1119.7	1088.0	1062.2	1038.7	1031.5
1218.9	7.5°	1232.3	1236.6	1223.7	1174.8	1100.0	1017.1	942.3	889.6	842.2	824.4
1251.0	10°	1273.5	1279.3	1238.5	1139.8	1007.5	874.3	747.7	658.6	589.1	560.8
1294.6	12.5°	1325.3	1327.7	1246.7	1086.6	887.2	696.9	517.7	422.3	360.4	337.4
1347.3	15°	1382.3	1379.0	1247.7	1014.2	723.3	492.7	337.9	277.5	252.6	244.9
1400.1	17.5°	1442.3	1428.4	1228.5	909.7	543.5	337.0	250.7	236.3	232.0	230.1
1452.3	20°	1501.2	1470.1	1193.5	773.1	390.2	251.6	227.7	223.4	221.0	220.0
1505.0	22.5°	1554.9	1501.7	1133.6	614.5	283.3	222.4	215.2	211.4	207.1	205.1
1556.3	25°	1607.1	1519.9	1049.2	466.4	226.7	208.0	202.3	195.1	189.3	186.9
1611.5	27.5°	1657.9	1531.4	943.8	345.1	202.3	194.6	184.1	174.0	169.7	168.7
1670.4	30°	1712.1	1535.2	823.9	257.4	187.4	177.8	162.5	151.0	148.6	149.1
1750.0	32.5°	1778.3	1541.0	703.2	210.9	174.9	157.7	139.5	127.5	125.6	127.5
1866.0	35°	1857.3	1552.5	586.7	194.1	163.9	137.1	117.4	107.4	105.4	106.9
2014.6	37.5°	1964.7	1571.2	477.9	190.8	154.8	119.8	98.7	90.6	90.6	91.1
2196.7	40°	2107.5	1621.0	380.6	188.4	150.0	106.9	83.4	80.0	81.5	82.4
2428.7	42.5°	2281.5	1727.0	314.9	185.5	144.8	101.1	75.7	74.3	76.7	77.6
2706.7	45°	2476.6	1861.2	291.9	180.7	140.0	105.0	72.4	70.5	73.3	73.8
3018.2	47.5°	2678.4	1992.5	289.0	175.4	135.2	110.7	71.4	67.1	70.5	70.9
3350.9	50°	2882.6	2078.3	291.9	167.3	127.5	110.7	71.9	63.7	66.6	68.1
3696.0	52.5°	3088.2	2117.6	290.0	149.5	114.1	104.0	71.9	60.9	63.7	64.7
4068.9	55°	3287.6	2109.9	260.7	123.2	96.8	92.0	70.0	58.5	60.4	60.9
4421.2	57.5°	3445.3	2003.0	206.6	95.9	78.6	76.7	63.7	55.6	57.0	56.6
4744.2	60°	3527.7	1768.2	147.6	73.8	61.8	60.4	56.1	51.8	52.7	50.3
5017.9	62.5°	3528.7	1457.6	98.7	58.5	49.4	47.9	47.9	46.5	45.5	40.7
5229.8	65°	3453.4	1113.0	65.7	46.5	39.8	37.4	40.3	39.8	36.4	29.7
5294.5	67.5°	3282.8	729.5	49.8	36.4	30.7	29.2	32.1	33.6	31.2	24.9
5058.7	70°	2932.0	424.7	41.2	28.3	23.0	21.6	25.9	28.8	25.9	20.1
4323.9	72.5°	2435.4	229.1	33.6	21.1	15.8	14.4	20.6	23.5	20.6	14.9
2774.3	75°	1580.3	122.7	25.9	13.9	8.1	9.1	15.3	17.3	14.4	9.6
814.4	77.5°	530.6	54.2	16.3	6.7	3.8	3.8	9.1	10.5	6.7	3.4
148.1	80°	118.4	22.5	6.7	2.9	1.4	1.4	1.9	1.9	1.0	0.0
45.5	82.5°	38.8	9.1	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
11.5	85°	14.9	3.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	87.5°	5.8	0.5	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>
1183.9
1168.1
1027.2
817.2
548.8
330.2
244.9
229.6
219.0
204.7
186.0
167.8
149.1
127.0
106.4
90.6
82.4
77.6
74.3
71.4
68.5
64.7
60.9
56.6
49.8
39.3
28.8
24.4
19.2
14.4
8.6
2.9
0.0
0.0
0.0
0.0
0.0

F REPORT)