

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: P946171

Luminaire Tested: **GALN-SB1D-927-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-927-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

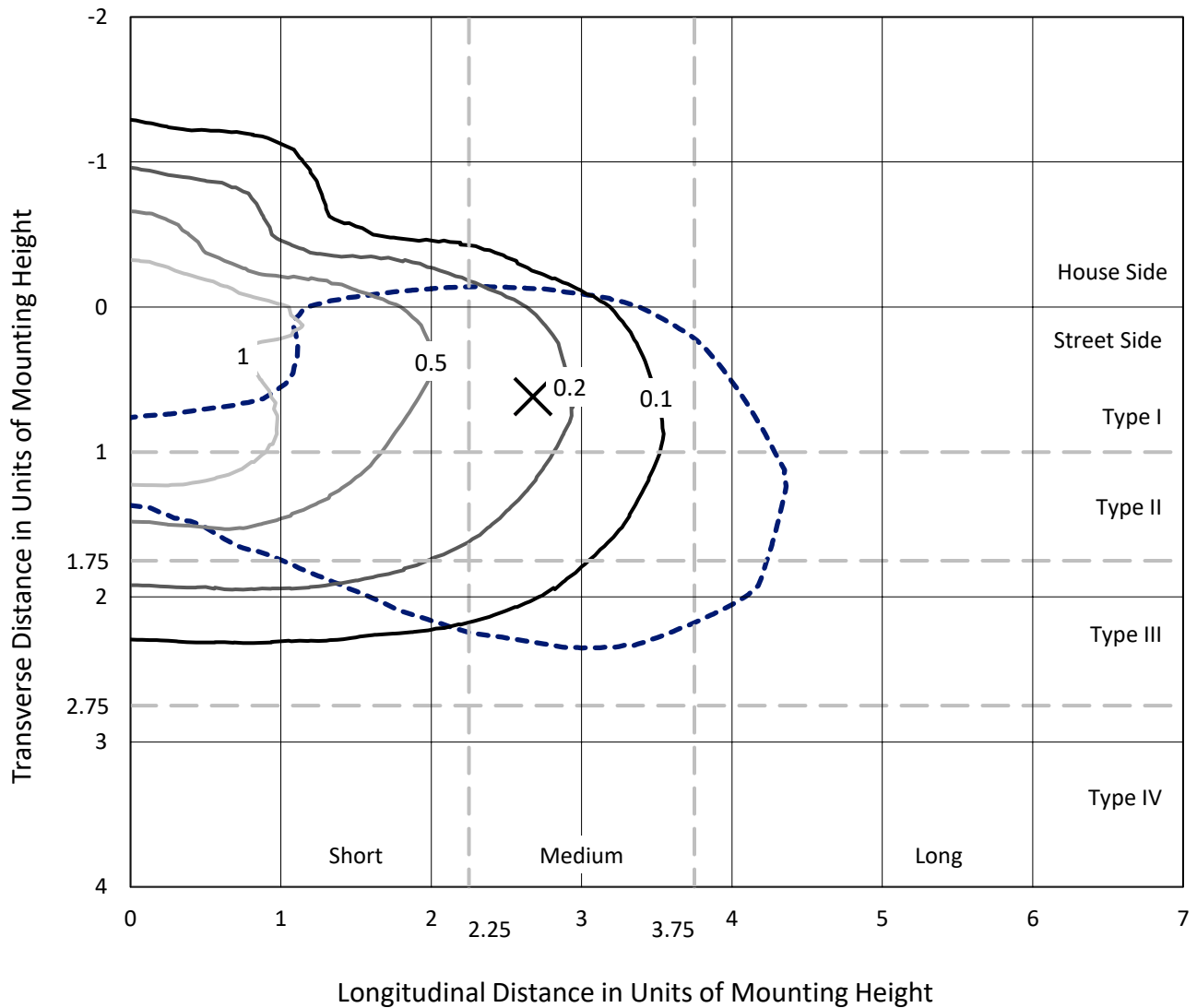
Lumens per Lamp: N/A  
Luminaire Lumens: 6361 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P946171  
 CATALOG NUMBER: GALN-SB1D-927-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

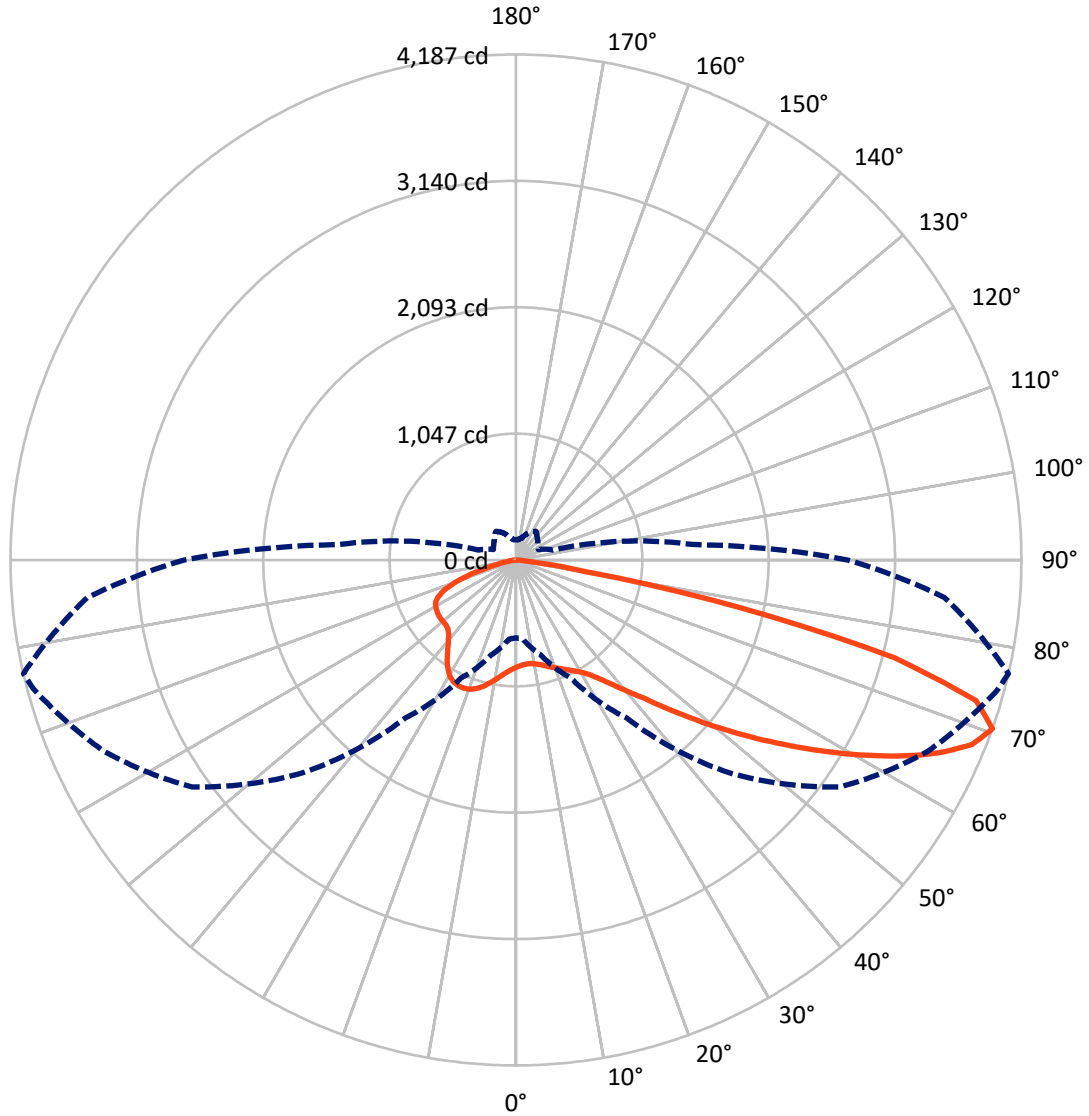
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P946171  
CATALOG NUMBER: GALN-SB1D-927-U-T3R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P946171  
 CATALOG NUMBER: GALN-SB1D-927-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1393.0	0.0	1393.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	4968.0	0.0	4968.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	6361.0	0.0	6361.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	1.3
10°-20°	244.3	3.8
20°-30°	417.7	6.6
30°-40°	671.8	10.6
40°-50°	1048.8	16.5
50°-60°	1400.9	22.0
60°-70°	1493.2	23.5
70°-80°	919.2	14.5
80°-90°	80.5	1.3
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°	6361.0	100.0
0°-180°	6361.0	100.0

**Coefficient of Utilization**



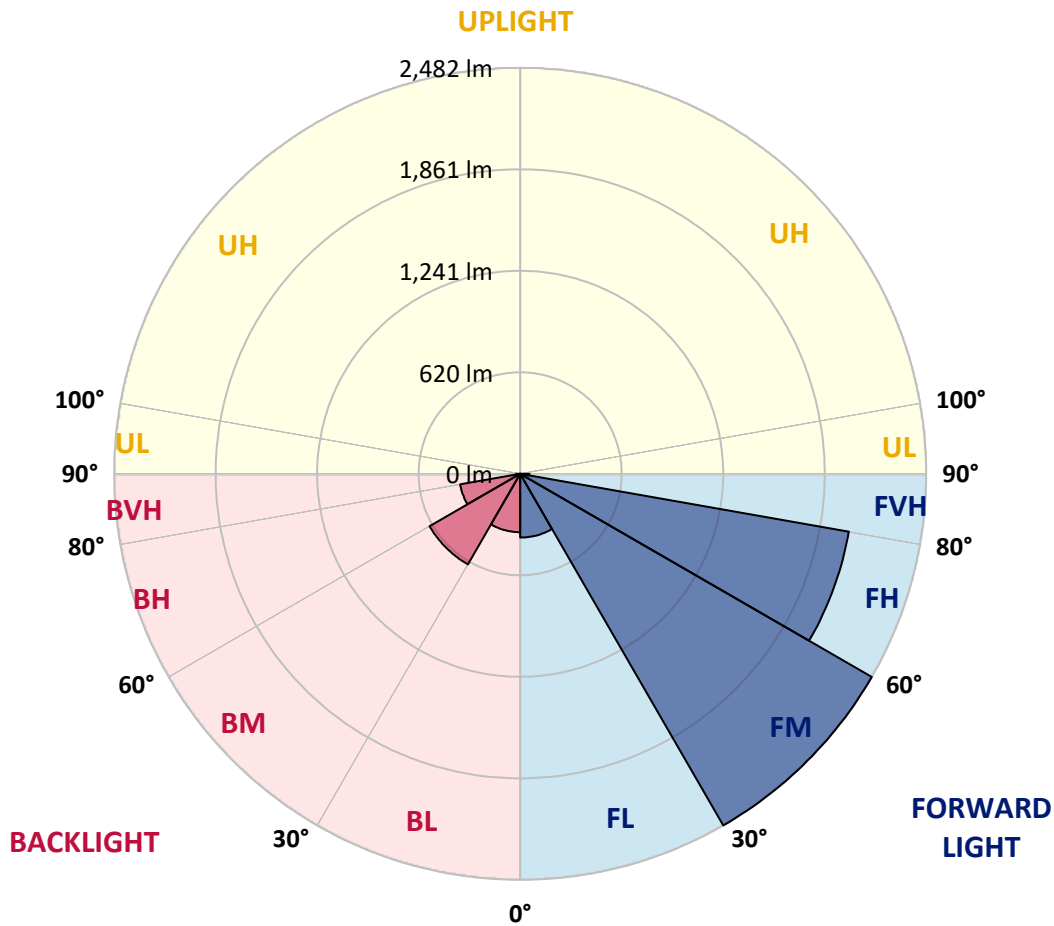
REPORT NUMBER: P946171  
 CATALOG NUMBER: GALN-SB1D-927-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	389.7	6.1			
FM (30°-60°)	2481.9	39.0			
FH (60°-80°)	2040.1	32.1			G2/5000
FVH (80°-90°)	56.3	0.9			G1/100
BL (0°-30°)	356.9	5.6	B1/500		
BM (30°-60°)	639.5	10.1	B1/1000		
BH (60°-80°)	372.3	5.9	B1/500		G1/500
BVH (80°-90°)	24.2	0.4			G1/100
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: P946171  
 CATALOG NUMBER: GALN-SB1D-927-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	818.0	817.7	821.9	823.2	831.1	836.6	847.0	858.1	872.4	874.1
5°	770.8	770.8	775.7	780.9	791.0	802.1	818.0	837.2	862.0	865.9
7.5°	730.7	733.3	737.6	747.7	759.4	775.4	799.8	827.1	859.7	865.9
10°	698.5	701.4	706.6	714.8	732.3	754.5	786.4	821.6	865.3	875.0
12.5°	688.4	691.3	694.2	700.4	716.7	742.8	780.9	824.2	878.6	888.4
15°	711.8	715.4	713.1	711.5	720.0	743.7	783.5	833.7	895.2	909.2
17.5°	765.9	767.2	762.0	746.7	745.4	758.1	795.9	846.7	916.1	931.4
20°	853.2	850.9	840.2	809.9	792.6	790.0	817.0	866.2	937.6	953.9
22.5°	971.8	969.2	947.7	899.8	861.4	835.9	847.7	891.7	961.7	979.9
25°	1119.7	1116.1	1084.5	1019.4	959.7	896.9	889.4	925.2	991.3	1008.3
27.5°	1292.4	1289.4	1255.2	1169.2	1083.2	980.3	941.2	964.6	1022.3	1041.5
30°	1478.1	1486.5	1425.9	1333.4	1224.6	1089.1	1010.9	1013.2	1062.4	1079.6
32.5°	1696.3	1711.0	1638.0	1520.7	1372.2	1207.3	1098.8	1080.9	1120.7	1135.0
35°	1912.6	1929.3	1868.7	1739.0	1568.0	1346.8	1190.7	1158.8	1198.2	1213.8
37.5°	2099.6	2121.8	2090.5	1977.8	1777.4	1514.9	1310.6	1250.3	1293.7	1313.2
40°	2247.2	2281.1	2278.8	2208.4	2024.4	1718.8	1462.7	1363.4	1412.2	1433.4
42.5°	2367.1	2396.4	2421.8	2418.2	2282.1	1950.4	1641.6	1510.3	1547.4	1571.9
45°	2449.8	2481.1	2535.9	2594.8	2530.0	2198.3	1846.5	1684.6	1718.5	1755.3
47.5°	2523.8	2559.3	2630.3	2723.8	2740.4	2447.2	2071.0	1887.6	1918.5	1956.6
50°	2530.3	2560.9	2671.0	2803.6	2890.0	2686.4	2312.0	2115.3	2144.3	2185.0
52.5°	2373.0	2421.2	2613.4	2801.4	2958.7	2886.4	2551.5	2352.1	2384.7	2433.6
55°	1841.9	1912.6	2444.3	2714.1	2934.3	3015.7	2779.2	2603.9	2645.6	2696.8
57.5°	1586.5	1617.5	1940.3	2555.1	2822.9	3049.3	2971.4	2858.4	2925.5	2981.5
60°	1425.9	1451.7	1642.6	2307.8	2676.3	2996.2	3120.0	3095.5	3211.5	3278.3
62.5°	1253.9	1278.4	1452.0	1927.0	2488.6	2907.9	3213.8	3314.5	3504.7	3577.7
65°	1083.2	1104.1	1270.5	1619.1	2250.1	2819.6	3262.3	3503.7	3776.1	3851.7
67.5°	893.0	910.2	1067.6	1366.0	1960.2	2698.7	3286.4	3652.6	4012.3	4077.1
70°	644.4	657.7	820.3	1080.3	1596.3	2490.9	3276.7	3758.2	4134.8	4186.6
72.5°	304.6	316.7	507.6	701.4	1127.5	2086.3	3078.9	3674.4	4010.3	3984.6
75°	162.6	173.0	291.6	384.7	595.5	1430.2	2519.6	3165.3	3367.6	3242.5
77.5°	110.1	118.3	180.5	231.0	272.0	678.9	1619.4	2191.5	2108.4	1901.9
80°	87.3	95.8	147.9	156.4	131.6	245.3	669.1	1014.5	728.8	582.8
82.5°	67.1	76.6	124.4	113.4	71.7	100.7	194.8	320.9	186.7	142.0
85°	41.0	51.1	97.7	72.3	40.4	45.9	66.1	89.3	57.0	47.6
87.5°	20.8	29.3	49.5	26.4	18.2	10.8	17.6	17.6	15.0	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946171  
 CATALOG NUMBER: GALN-SB1D-927-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
887.4	0°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
882.9	2.5°	890.7	897.2	908.3	918.7	926.8	934.7	942.5	946.7	948.0	953.2
887.7	5°	901.1	913.2	934.7	954.9	967.6	975.4	980.9	984.2	984.8	986.5
901.1	7.5°	920.3	939.5	969.5	989.7	999.2	998.5	996.2	988.1	984.8	981.9
920.6	10°	947.4	972.8	1009.6	1023.6	1017.7	1002.1	981.9	958.1	947.0	936.3
947.4	12.5°	980.9	1013.2	1049.3	1048.7	1019.7	979.6	932.7	896.2	873.1	856.5
980.3	15°	1021.6	1058.8	1086.5	1064.3	1000.8	928.8	860.1	812.5	791.6	773.4
1013.5	17.5°	1063.7	1103.4	1116.1	1059.4	953.2	853.5	775.7	738.2	717.7	707.9
1049.3	20°	1104.7	1144.1	1133.7	1031.4	880.9	768.2	698.8	678.3	674.0	676.3
1084.2	22.5°	1148.0	1183.2	1137.3	977.3	788.7	680.9	642.8	643.4	652.9	659.7
1120.7	25°	1192.3	1216.1	1127.8	899.1	689.7	616.7	607.2	617.7	636.2	649.6
1161.7	27.5°	1235.0	1245.4	1107.3	802.4	604.6	570.8	572.4	593.9	621.9	640.5
1211.6	30°	1283.2	1271.5	1067.9	693.6	545.7	531.3	545.0	570.1	598.1	614.7
1274.4	32.5°	1337.6	1294.0	1005.3	592.9	504.0	499.7	522.2	538.5	550.9	555.8
1357.8	35°	1405.4	1325.6	925.2	522.2	466.5	476.6	498.1	490.0	485.1	482.5
1469.9	37.5°	1493.4	1368.3	831.4	476.3	436.2	460.0	468.8	443.4	424.2	414.7
1605.8	40°	1599.2	1430.8	741.1	440.8	417.0	445.7	430.4	399.7	375.3	361.9
1758.5	42.5°	1716.8	1496.3	665.2	414.1	406.2	433.9	402.0	365.5	326.1	321.9
1940.7	45°	1840.3	1563.7	613.4	393.5	401.0	423.8	385.7	326.8	298.7	316.0
2123.4	47.5°	1963.8	1625.6	582.2	378.2	398.4	412.4	371.4	305.3	285.4	310.5
2319.2	50°	2101.3	1681.0	568.2	367.2	395.5	407.9	349.9	299.7	271.4	288.0
2521.8	52.5°	2237.8	1724.0	557.7	356.1	391.3	404.3	339.5	293.2	254.4	255.4
2725.8	55°	2373.9	1752.0	546.3	341.4	381.8	396.5	338.5	286.0	241.7	237.2
2941.4	57.5°	2519.2	1768.0	532.3	325.1	365.5	376.6	337.5	280.5	237.8	230.3
3162.0	60°	2667.1	1791.4	514.1	305.3	343.7	352.8	335.2	278.5	235.5	222.8
3369.8	62.5°	2799.7	1799.6	492.2	286.4	315.7	329.4	330.3	276.9	229.3	207.5
3542.5	65°	2886.7	1764.4	454.1	264.9	285.4	305.3	320.9	271.4	218.3	196.4
3627.9	67.5°	2883.1	1664.1	394.5	237.2	256.1	278.5	307.2	261.9	204.9	182.8
3563.4	70°	2748.9	1466.0	318.9	204.9	223.8	249.9	289.6	247.9	189.0	167.8
3168.5	72.5°	2357.7	1147.4	231.6	167.1	186.3	220.2	266.8	231.0	172.7	154.4
2341.7	75°	1684.3	726.2	157.0	128.4	145.0	186.7	238.5	211.1	157.7	155.1
1172.8	77.5°	860.4	347.0	103.9	93.8	101.0	147.3	200.4	188.6	160.0	128.0
333.6	80°	279.8	128.0	65.5	63.9	67.1	98.1	155.1	154.7	121.2	87.0
80.8	82.5°	89.3	55.1	42.7	41.0	39.4	61.6	108.2	122.5	81.8	55.1
29.0	85°	35.5	32.9	25.1	23.1	16.6	29.0	56.7	81.4	60.9	39.7
7.5	87.5°	13.0	13.0	6.8	4.9	3.6	9.8	15.3	24.4	34.9	20.5
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>
887.4
956.2
989.1
982.5
933.0
852.6
771.4
710.8
675.3
661.3
653.2
645.0
618.7
558.4
485.1
417.0
362.9
326.1
325.1
322.2
300.4
262.3
240.4
231.3
223.8
207.5
196.4
183.7
169.7
153.4
146.3
114.0
76.9
54.7
40.7
20.2
0.0

F REPORT)