

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: P946442

Luminaire Tested: **GALN-SB2A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8169 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

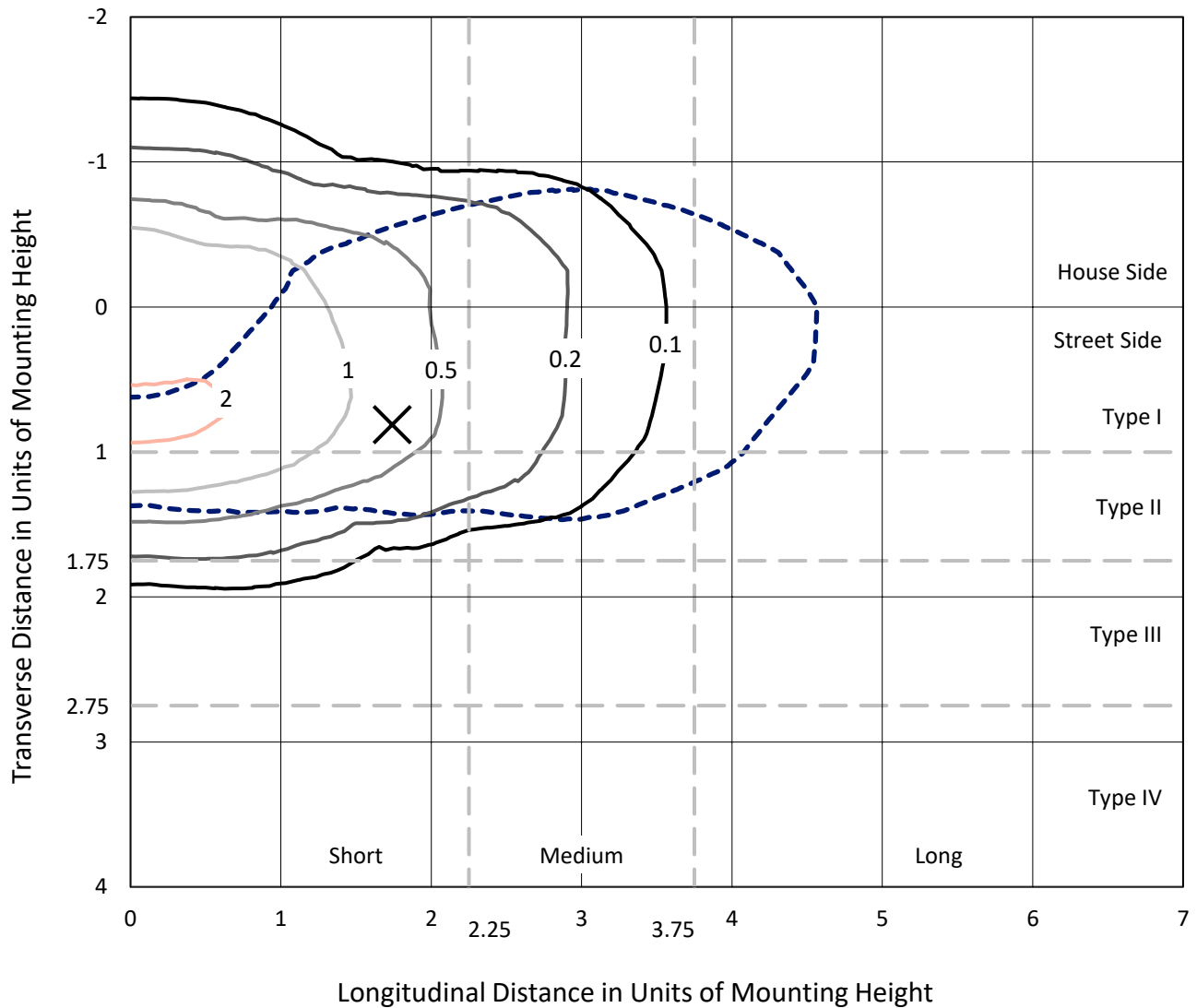
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946442
 CATALOG NUMBER: GALN-SB2A-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

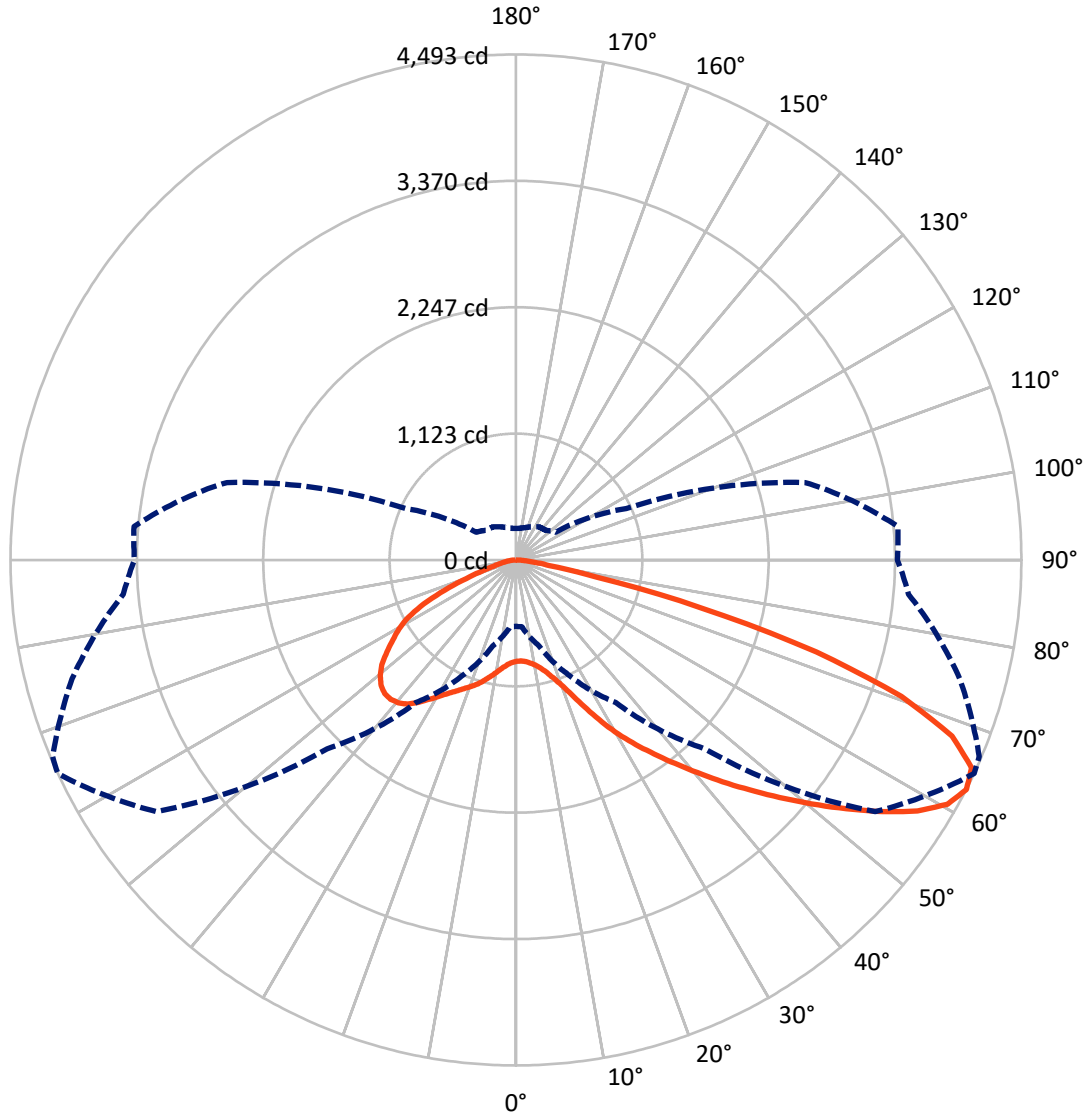
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

REPORT NUMBER: P946442
CATALOG NUMBER: GALN-SB2A-830-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P946442
 CATALOG NUMBER: GALN-SB2A-830-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2577.8	0.0	2577.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5591.2	0.0	5591.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	8169.0	0.0	8169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.1
10°-20°	304.3	3.7
20°-30°	617.1	7.6
30°-40°	1067.9	13.1
40°-50°	1616.0	19.8
50°-60°	1894.7	23.2
60°-70°	1588.4	19.4
70°-80°	877.0	10.7
80°-90°	113.9	1.4
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°	8169.0	100.0
0°-180°	8169.0	100.0

Coefficient of Utilization



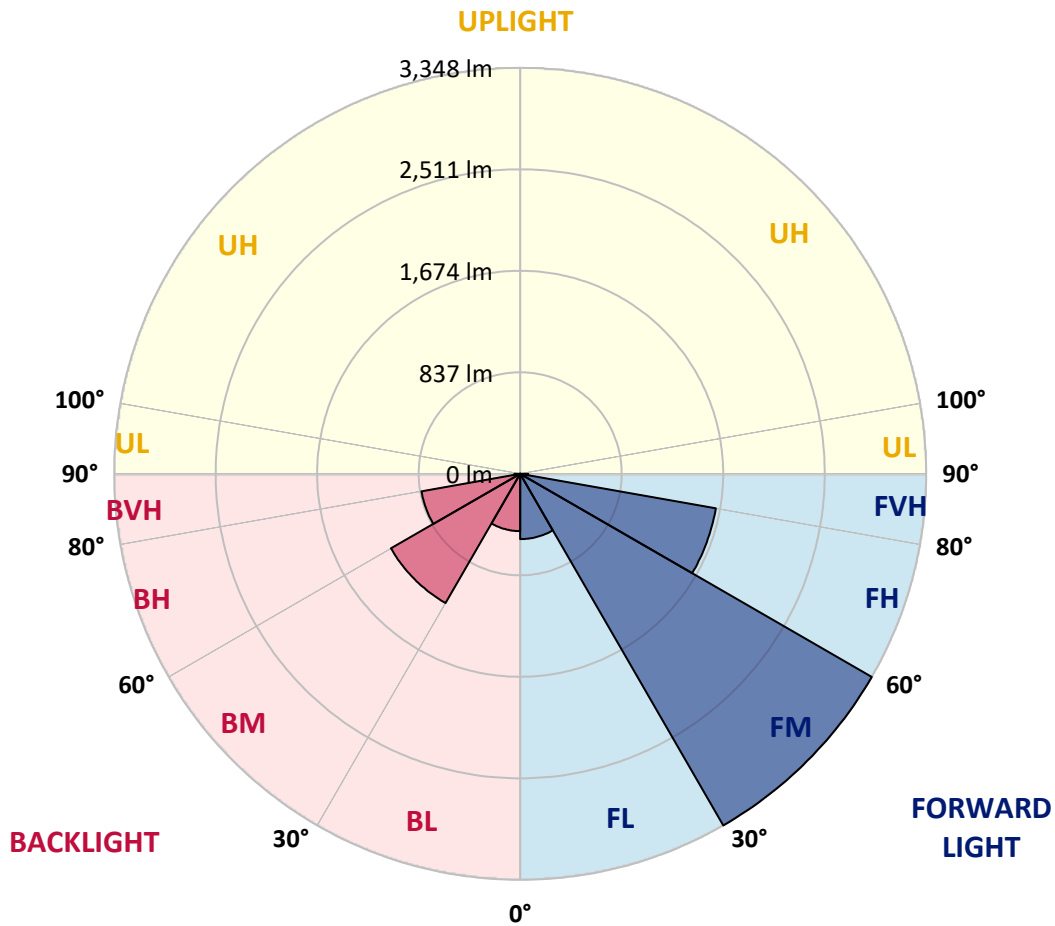
REPORT NUMBER: P946442
 CATALOG NUMBER: GALN-SB2A-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.4	6.6			
FM (30°-60°)	3347.9	41.0			
FH (60°-80°)	1638.5	20.1			G1/1800
FVH (80°-90°)	66.4	0.8			G1/100
BL (0°-30°)	472.7	5.8	B1/500		
BM (30°-60°)	1230.6	15.1	B2/2500		
BH (60°-80°)	826.9	10.1	B2/1000		G2/1000
BVH (80°-90°)	47.5	0.6			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 Short



REPORT NUMBER: P946442

CATALOG NUMBER: GALN-SB2A-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2
2.5°	894.3	891.7	893.8	893.8	894.7	894.3	897.2	898.1	899.3	901.9
5°	885.4	884.9	888.7	892.1	895.5	898.5	902.3	907.8	908.7	911.6
7.5°	882.4	879.8	885.8	890.0	898.1	905.3	915.4	924.8	928.6	929.9
10°	905.3	901.0	906.5	909.1	915.9	923.1	934.9	949.8	954.0	959.1
12.5°	944.3	939.6	947.7	951.5	957.8	964.2	972.2	986.6	988.8	998.1
15°	997.7	992.2	997.2	1001.9	1012.5	1018.4	1026.5	1040.5	1040.5	1047.7
17.5°	1070.1	1062.9	1066.7	1068.4	1075.2	1084.1	1097.7	1110.0	1116.3	1113.8
20°	1178.2	1169.3	1169.3	1160.8	1158.3	1165.5	1183.3	1200.3	1207.0	1193.9
22.5°	1340.5	1327.8	1320.6	1291.8	1280.4	1281.2	1299.0	1319.8	1325.3	1302.0
25°	1546.9	1527.0	1517.3	1474.9	1449.0	1426.6	1440.6	1467.3	1474.9	1446.1
27.5°	1753.3	1754.6	1745.3	1694.4	1651.6	1610.5	1603.3	1631.3	1639.3	1606.7
30°	2042.8	2012.7	1994.9	1933.9	1872.8	1815.2	1785.5	1797.0	1799.1	1760.1
32.5°	2292.4	2284.8	2246.7	2193.3	2114.8	2024.6	1975.0	1956.8	1953.4	1897.9
35°	2576.8	2572.6	2532.3	2468.7	2384.0	2258.5	2169.1	2117.0	2112.7	2034.7
37.5°	2865.9	2865.9	2826.4	2756.9	2669.2	2512.4	2376.3	2293.7	2280.1	2178.4
40°	3096.4	3082.4	3089.6	3060.4	2959.9	2793.4	2606.5	2486.5	2468.3	2346.3
42.5°	3227.4	3222.7	3265.9	3298.6	3257.5	3124.4	2859.9	2695.5	2670.1	2531.0
45°	3256.6	3251.5	3328.7	3448.2	3505.8	3451.1	3135.4	2915.4	2884.5	2724.3
47.5°	3189.2	3179.1	3292.2	3480.8	3665.6	3761.8	3433.8	3154.0	3109.1	2912.5
50°	2986.6	2976.9	3148.1	3398.6	3719.4	3972.9	3757.6	3407.1	3338.4	3114.2
52.5°	2546.3	2551.0	2819.2	3163.4	3648.6	4104.2	4036.4	3673.7	3591.0	3320.6
55°	1983.5	1993.6	2323.4	2702.3	3365.5	4084.3	4226.7	3948.3	3866.1	3514.7
57.5°	1420.2	1465.1	1774.1	2149.2	2821.8	3768.6	4268.3	4209.4	4129.7	3726.6
60°	920.5	928.6	1246.4	1624.5	2148.8	3207.5	4183.9	4407.3	4345.0	3942.8
62.5°	590.0	595.5	789.1	1136.3	1546.5	2373.0	3900.0	4493.3	4474.2	4085.6
65°	433.6	429.3	530.2	751.0	1041.7	1463.4	3348.6	4451.8	4489.5	4175.0
67.5°	361.9	356.0	405.6	520.0	767.5	831.1	2477.6	4181.8	4320.0	4164.9
70°	329.7	324.6	354.7	386.1	598.9	556.5	1249.0	3635.5	3848.3	4049.2
72.5°	279.3	270.4	311.5	342.9	465.8	426.8	516.2	2792.5	3051.9	3678.3
75°	216.6	210.6	245.8	301.8	350.1	333.1	326.3	1695.7	1978.8	2844.7
77.5°	171.6	163.6	195.8	235.2	314.9	251.3	237.8	730.2	1010.8	1816.1
80°	129.3	122.1	148.8	186.1	242.0	189.4	153.8	297.9	381.0	920.1
82.5°	92.0	85.6	103.8	136.5	162.7	170.0	94.5	167.0	187.8	354.7
85°	58.9	55.1	69.5	85.6	103.4	109.3	57.6	87.3	95.8	146.2
87.5°	32.2	26.3	37.3	39.8	47.9	43.7	27.5	31.8	34.3	53.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946442
 CATALOG NUMBER: GALN-SB2A-830-U-T2U

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
900.2	0°	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2
901.9	2.5°	903.6	904.9	909.1	910.4	913.3	917.1	919.7	922.2	922.2	924.8
915.4	5°	915.9	918.8	927.7	932.4	940.0	947.7	952.3	957.8	961.2	962.9
937.1	7.5°	939.6	944.3	957.0	965.0	978.2	988.8	996.0	1003.6	1005.3	1010.0
967.2	10°	971.8	977.3	991.7	1007.0	1022.7	1035.8	1042.6	1048.1	1050.2	1051.1
1005.7	12.5°	1008.7	1016.7	1035.4	1054.0	1070.6	1082.0	1083.7	1082.4	1076.5	1071.4
1053.2	15°	1054.0	1061.2	1082.0	1102.3	1118.5	1120.6	1110.0	1103.2	1096.0	1094.7
1106.2	17.5°	1108.3	1112.1	1131.2	1151.1	1152.4	1145.2	1129.5	1123.1	1116.3	1111.7
1175.2	20°	1171.4	1170.2	1183.7	1192.2	1183.3	1161.3	1137.5	1126.9	1120.1	1114.6
1260.0	22.5°	1246.9	1237.1	1235.4	1233.3	1209.6	1163.4	1131.2	1117.6	1107.0	1099.4
1378.3	25°	1356.6	1319.3	1293.5	1279.1	1225.7	1151.9	1110.8	1080.7	1060.8	1047.7
1522.8	27.5°	1494.0	1431.2	1366.0	1330.8	1225.7	1128.6	1061.7	1012.9	980.3	966.7
1662.6	30°	1624.9	1559.2	1463.0	1393.1	1222.7	1090.5	982.4	914.6	876.5	862.9
1782.2	32.5°	1736.8	1665.2	1566.0	1461.3	1215.5	1028.6	884.1	809.1	772.2	756.1
1900.4	35°	1840.6	1764.4	1669.4	1536.3	1196.4	937.9	776.0	718.8	677.7	651.8
2020.8	37.5°	1947.0	1856.3	1767.3	1604.1	1162.1	832.0	692.9	644.2	595.9	561.1
2148.8	40°	2062.7	1954.2	1872.0	1644.4	1105.7	731.1	628.5	584.0	532.7	495.9
2296.2	42.5°	2197.9	2071.6	1988.6	1665.2	1028.6	659.5	586.6	542.9	494.6	464.5
2454.3	45°	2339.0	2200.9	2094.9	1664.8	942.6	626.0	573.0	529.8	476.4	445.0
2616.6	47.5°	2487.0	2336.1	2186.9	1637.6	868.0	630.6	565.4	501.4	442.5	412.0
2780.7	50°	2635.3	2484.0	2275.9	1586.8	836.2	620.5	537.0	461.5	392.0	364.5
2934.5	52.5°	2782.4	2641.2	2352.6	1514.3	804.0	582.7	500.5	409.8	371.3	352.2
3093.4	55°	2930.3	2796.8	2436.1	1408.8	723.5	538.7	439.5	390.3	354.7	337.4
3249.0	57.5°	3078.6	2976.5	2515.4	1303.2	622.2	484.4	406.0	366.6	338.2	323.4
3379.1	60°	3232.9	3182.0	2597.2	1206.2	522.1	414.9	381.4	347.5	318.7	302.2
3504.1	62.5°	3391.8	3408.3	2661.2	1081.2	430.2	372.5	359.4	324.6	296.7	281.0
3607.5	65°	3552.0	3626.6	2703.1	907.8	348.8	332.3	335.7	299.6	271.2	257.7
3683.4	67.5°	3672.8	3783.8	2691.2	687.0	286.1	294.1	306.0	273.4	246.7	236.1
3671.1	70°	3686.4	3765.2	2574.3	470.4	239.5	256.8	272.9	247.5	220.0	212.3
3498.2	72.5°	3505.8	3510.9	2248.4	307.3	202.6	225.5	238.2	221.2	194.5	186.9
3060.4	75°	3032.4	2903.6	1650.8	202.6	169.5	193.7	205.6	193.7	167.8	169.5
2289.9	77.5°	2297.5	2056.4	1002.3	144.1	141.6	162.7	178.9	170.4	148.3	166.6
1151.5	80°	1183.7	1112.5	447.1	107.6	111.9	130.1	147.1	136.0	117.4	111.9
257.3	82.5°	271.2	315.3	176.3	77.1	80.9	93.7	112.3	102.1	84.3	71.2
107.2	85°	94.9	103.8	78.0	48.3	47.5	58.5	76.3	68.2	57.2	45.8
45.3	87.5°	30.1	39.4	29.2	19.5	20.3	26.3	35.2	32.2	26.7	17.4
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

180°
900.2
924.8
963.8
1008.3
1048.9
1071.4
1094.7
1112.1
1115.1
1101.9
1052.8
973.5
870.9
764.1
660.3
570.5
503.1
470.4
450.1
416.2
366.2
352.2
335.7
320.8
300.9
280.6
257.3
236.5
212.8
186.5
163.6
146.6
102.1
70.4
48.3
18.2
0.0

F REPORT)