

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: P945648

Luminaire Tested: **GALN-SB1C-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7910 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

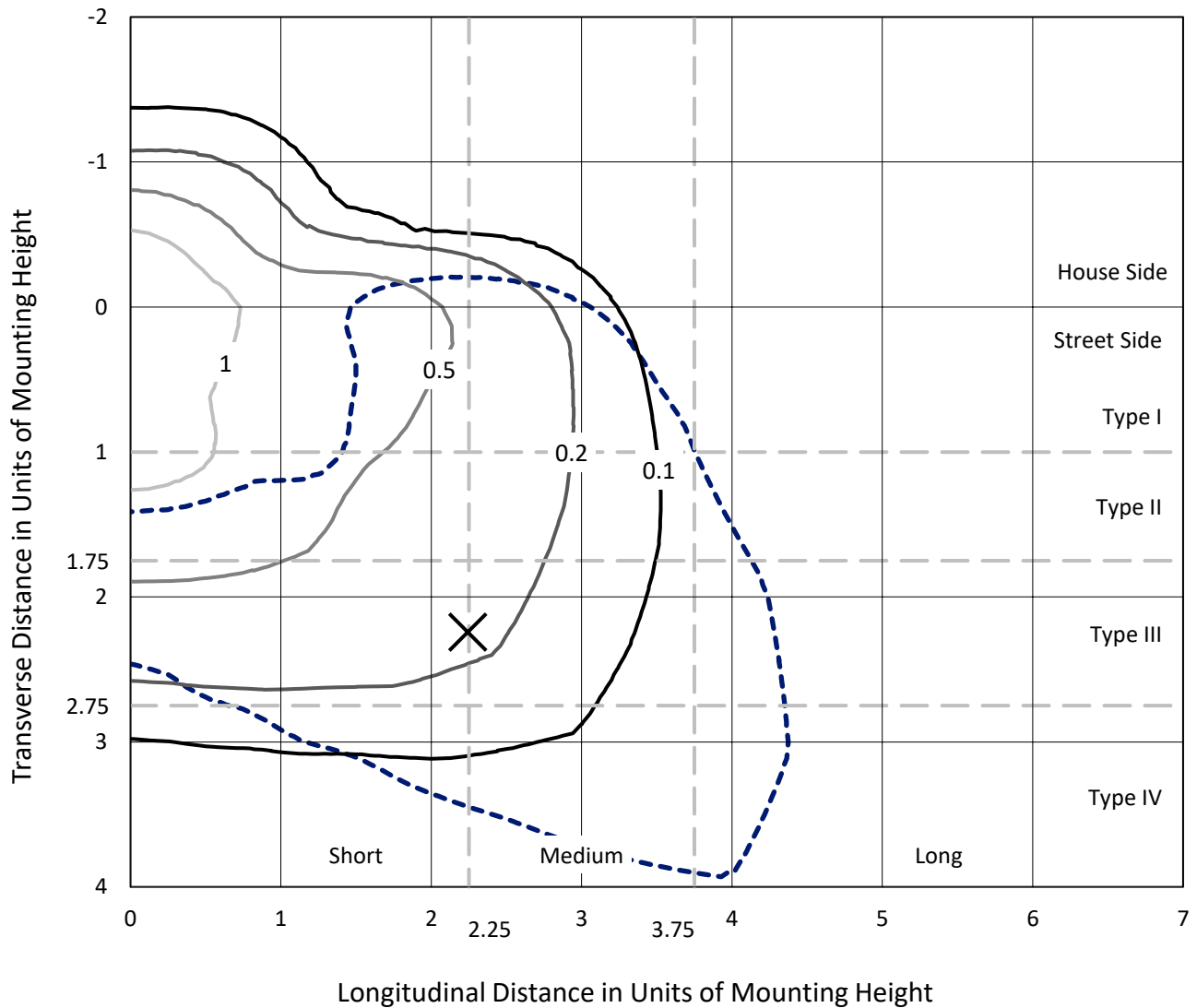
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945648
 CATALOG NUMBER: GALN-SB1C-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

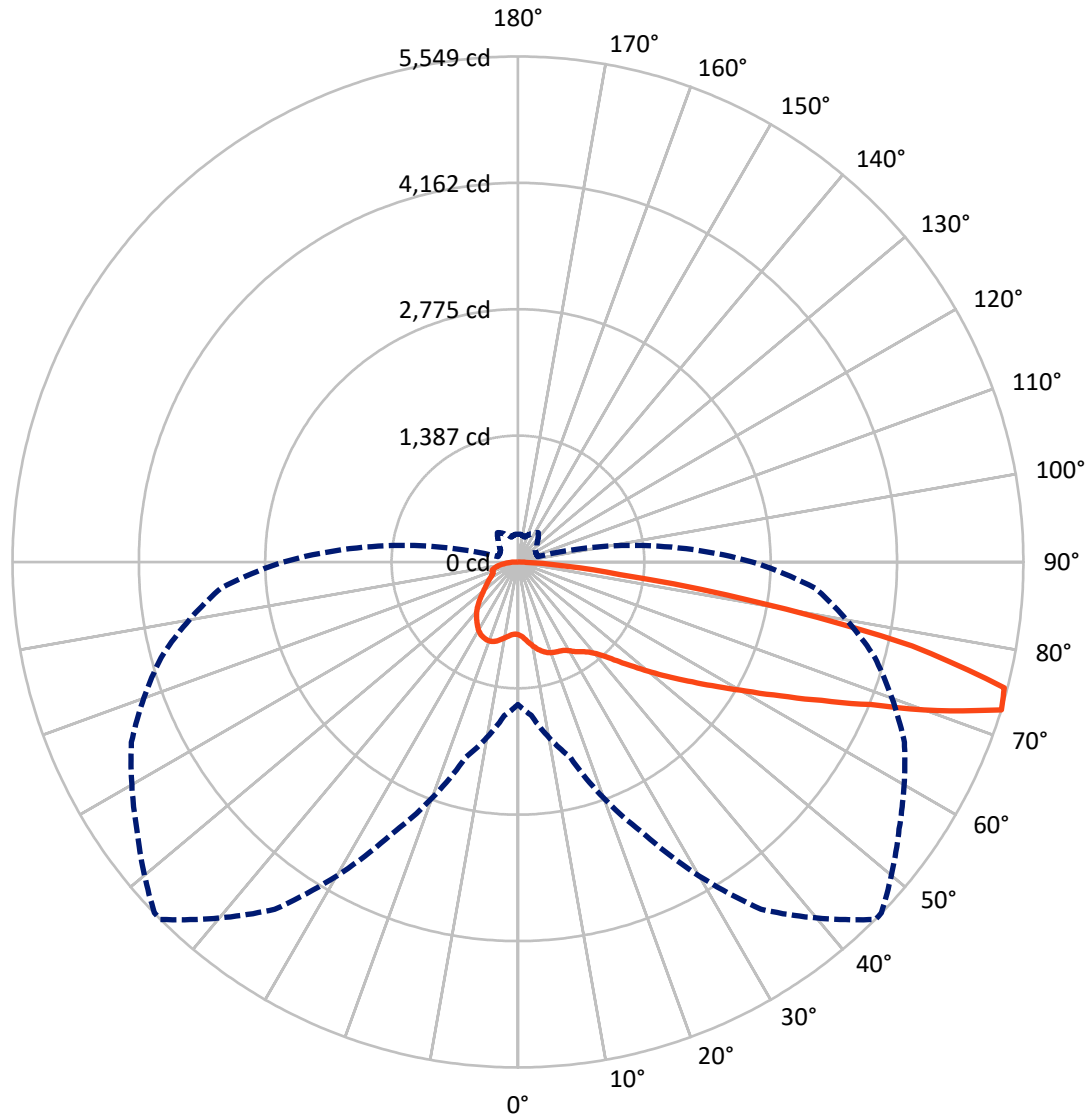
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P945648
CATALOG NUMBER: GALN-SB1C-740-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P945648
 CATALOG NUMBER: GALN-SB1C-740-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1788.2	0.0	1788.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6121.8	0.0	6121.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	7910.0	0.0	7910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.0
10°-20°	270.8	3.4
20°-30°	471.1	6.0
30°-40°	675.3	8.5
40°-50°	950.8	12.0
50°-60°	1456.4	18.4
60°-70°	2109.8	26.7
70°-80°	1684.8	21.3
80°-90°	209.8	2.7
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°	7910.0	100.0
0°-180°	7910.0	100.0

Coefficient of Utilization



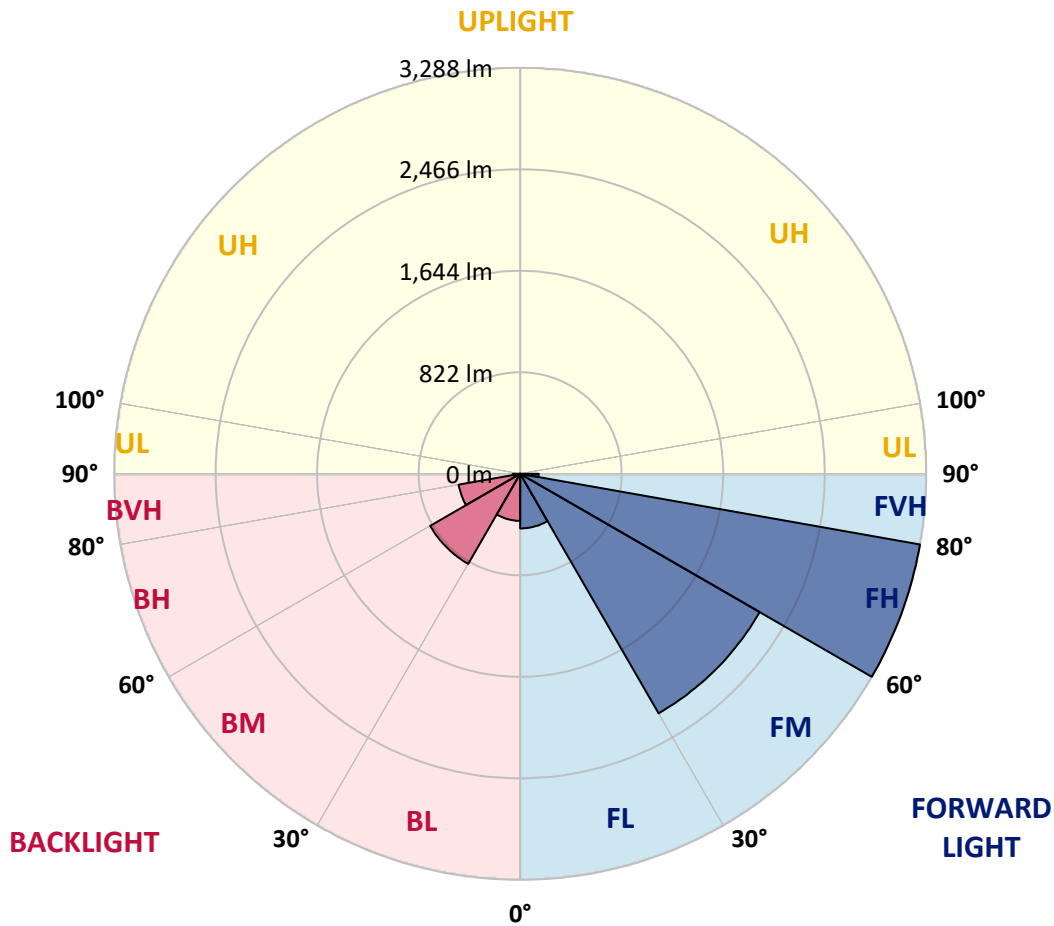
REPORT NUMBER: P945648
 CATALOG NUMBER: GALN-SB1C-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.3	5.6			
FM (30°-60°)	2240.5	28.3			
FH (60°-80°)	3288.4	41.6			G2/5000
FVH (80°-90°)	150.5	1.9			G2/225
BL (0°-30°)	380.7	4.8	B1/500		
BM (30°-60°)	842.0	10.6	B1/1000		
BH (60°-80°)	506.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	59.3	0.7			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 IV Short



REPORT NUMBER: P945648
 CATALOG NUMBER: GALN-SB1C-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0
2.5°	829.2	834.6	829.6	825.1	823.0	817.5	817.1	813.8	811.7	805.9
5°	887.1	894.2	885.9	876.7	868.4	855.1	853.4	843.8	833.0	820.5
7.5°	952.6	958.8	949.2	935.5	920.9	898.8	898.4	880.9	863.8	842.6
10°	1009.6	1018.0	1005.1	986.3	968.0	943.0	940.1	920.1	898.4	870.9
12.5°	1060.1	1065.9	1053.4	1030.5	1009.2	984.2	980.5	958.4	934.2	903.0
15°	1100.1	1107.6	1090.9	1066.3	1043.8	1019.2	1015.9	995.9	971.7	938.8
17.5°	1126.3	1132.6	1115.5	1088.0	1066.3	1045.9	1043.4	1026.7	1005.5	972.1
20°	1136.3	1143.0	1125.1	1097.1	1077.1	1061.3	1060.1	1048.0	1033.4	1003.0
22.5°	1146.3	1152.6	1129.2	1100.1	1082.6	1072.6	1072.1	1064.2	1058.4	1033.4
25°	1186.7	1188.4	1157.2	1115.1	1090.1	1081.3	1080.9	1080.5	1083.0	1063.4
27.5°	1221.7	1221.3	1194.7	1155.1	1116.3	1098.0	1097.6	1101.7	1109.7	1093.4
30°	1273.0	1268.4	1236.7	1195.5	1160.1	1131.7	1129.2	1125.5	1131.7	1118.8
32.5°	1381.8	1367.2	1315.9	1242.6	1196.3	1174.7	1171.3	1148.0	1150.5	1142.6
35°	1537.6	1518.4	1450.1	1331.7	1241.3	1210.5	1208.8	1179.2	1174.2	1167.2
37.5°	1723.0	1699.3	1619.7	1460.9	1318.8	1252.2	1249.7	1223.0	1202.6	1195.1
40°	1909.3	1879.3	1813.4	1618.4	1433.0	1321.7	1313.8	1273.4	1250.1	1237.6
42.5°	2090.1	2065.1	2008.9	1795.1	1573.8	1423.4	1405.9	1336.7	1319.2	1307.6
45°	2250.1	2227.6	2186.4	1983.9	1738.9	1561.8	1544.7	1431.8	1426.3	1426.3
47.5°	2380.1	2375.1	2331.4	2176.4	1933.5	1719.3	1689.7	1563.8	1578.4	1600.9
50°	2524.3	2510.6	2463.9	2366.0	2162.2	1899.7	1875.5	1725.9	1780.5	1842.2
52.5°	2656.8	2664.3	2612.2	2563.5	2420.6	2101.0	2058.5	1917.2	2035.1	2137.2
55°	2793.1	2793.5	2778.9	2772.3	2691.4	2323.5	2276.8	2147.2	2334.7	2461.4
57.5°	2921.0	2921.8	2943.5	3002.3	3005.6	2580.2	2527.2	2429.7	2667.7	2796.8
60°	3035.2	3041.0	3100.2	3237.7	3281.9	2874.3	2824.3	2763.5	3011.8	3141.9
62.5°	3073.5	3094.8	3226.4	3421.9	3554.8	3235.2	3186.0	3149.8	3373.5	3494.4
65°	3008.5	3057.3	3311.9	3574.0	3835.6	3664.0	3615.2	3575.6	3749.4	3863.2
67.5°	2848.9	2911.8	3306.9	3733.6	4176.5	4179.8	4134.4	4041.5	4152.3	4196.1
70°	2428.5	2522.7	3015.6	3793.1	4567.8	4885.3	4841.5	4602.4	4554.4	4342.8
72.5°	1564.7	1691.4	2220.6	3302.7	4654.9	5549.1	5546.6	5108.6	4681.5	4057.7
75°	570.9	648.4	1031.7	2073.0	3907.3	5515.3	5531.6	5022.0	4273.6	3134.4
77.5°	207.9	227.5	336.7	796.7	2403.1	4425.3	4459.0	4014.8	3041.9	1573.0
80°	109.2	120.0	172.5	309.2	1029.6	2628.1	2681.0	2386.0	1429.7	473.8
82.5°	60.4	65.4	96.7	167.9	463.8	1123.8	1155.5	942.6	502.9	200.8
85°	32.5	34.6	45.4	91.7	226.7	389.6	398.4	281.7	200.4	117.9
87.5°	9.6	11.7	15.0	29.2	88.8	87.5	89.6	55.8	79.2	59.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945648
 CATALOG NUMBER: GALN-SB1C-740-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
798.0	0°	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0
804.2	2.5°	801.7	800.5	795.9	793.8	791.3	790.9	793.0	793.4	793.8	794.2
813.4	5°	809.2	805.0	800.9	798.4	799.2	799.6	803.8	806.7	808.8	810.5
830.5	7.5°	823.8	820.5	813.4	813.0	814.2	818.0	823.4	830.1	833.8	836.7
852.6	10°	845.5	839.2	830.9	832.1	834.6	840.1	851.3	856.7	863.0	868.4
879.6	12.5°	867.6	862.1	852.6	853.4	857.6	867.1	878.0	884.6	888.8	893.0
908.8	15°	896.3	886.7	876.3	876.3	883.8	894.2	899.2	904.6	907.1	911.7
940.1	17.5°	925.9	913.4	899.6	898.8	908.0	913.0	915.9	916.7	917.6	922.6
970.5	20°	955.5	941.7	922.1	920.5	922.6	921.7	921.3	920.5	921.7	928.0
1001.7	22.5°	984.6	968.8	941.7	934.2	928.4	920.5	920.1	919.6	920.5	926.7
1035.5	25°	1018.8	999.6	963.4	940.9	921.3	910.5	911.7	912.1	913.0	918.0
1070.5	27.5°	1055.9	1034.6	983.4	938.8	903.4	895.9	893.8	895.1	898.0	905.9
1105.5	30°	1093.0	1068.0	1001.7	930.5	880.9	870.5	863.8	866.7	875.9	883.8
1135.9	32.5°	1126.7	1101.7	1016.3	912.1	852.1	835.9	827.1	830.9	840.1	843.0
1169.7	35°	1166.3	1138.0	1022.6	883.0	820.9	795.9	784.2	778.8	783.4	780.5
1209.2	37.5°	1210.5	1180.9	1021.7	844.6	784.2	755.5	739.2	718.8	709.2	699.2
1267.6	40°	1275.9	1233.4	1011.7	798.4	738.8	712.5	683.4	648.8	627.1	607.5
1361.7	42.5°	1365.1	1306.3	993.4	747.5	687.5	663.0	623.4	583.0	548.8	516.3
1504.7	45°	1498.0	1401.8	970.5	693.4	632.1	608.0	565.0	519.6	480.9	439.2
1707.6	47.5°	1689.7	1530.1	948.8	631.7	573.8	551.7	512.9	470.9	425.0	384.6
2001.0	50°	1953.0	1714.3	928.8	571.7	516.3	499.6	468.8	425.9	379.6	347.1
2344.7	52.5°	2288.1	1964.7	920.5	513.8	462.5	456.3	431.7	391.7	347.9	320.4
2745.6	55°	2672.7	2264.3	920.5	458.4	415.4	417.5	400.4	363.4	325.4	300.9
3158.9	57.5°	3065.2	2567.7	903.8	407.1	375.4	384.2	373.4	340.9	306.7	281.3
3593.6	60°	3426.9	2821.8	836.3	360.4	340.0	353.8	346.7	318.8	277.1	255.8
3956.9	62.5°	3704.8	2965.2	706.3	323.4	310.9	326.7	322.9	289.6	271.7	262.9
4255.3	65°	3844.0	2941.8	540.0	290.4	286.3	310.9	302.9	301.7	287.5	277.5
4352.3	67.5°	3758.6	2741.0	391.7	266.3	272.1	296.3	326.7	331.7	305.4	285.9
4079.0	70°	3384.0	2377.6	291.7	243.3	254.2	296.7	372.5	347.1	299.6	276.7
3271.4	72.5°	2574.3	1773.0	226.3	219.2	230.8	298.8	392.9	340.0	282.9	305.9
2038.0	75°	1472.2	973.4	181.7	189.6	201.7	279.2	382.5	321.7	270.0	280.9
807.5	77.5°	561.3	374.2	150.0	160.4	162.1	243.8	365.9	320.4	257.1	250.8
242.1	80°	194.6	146.3	124.2	127.5	125.4	216.7	350.9	278.8	210.4	188.3
100.0	82.5°	79.6	72.9	98.3	94.2	89.2	168.3	283.4	227.9	172.1	152.1
48.3	85°	34.6	46.3	65.0	57.1	51.7	116.7	227.1	192.9	145.4	125.4
15.8	87.5°	7.1	17.5	27.5	25.8	26.7	77.9	161.3	137.1	102.9	77.1
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>
798.0
795.9
811.3
837.6
867.1
894.6
913.4
924.2
930.5
930.9
924.6
913.8
892.6
853.4
789.6
705.5
608.8
513.4
434.2
380.0
345.0
318.4
298.4
277.1
252.5
260.0
274.2
282.5
272.9
303.4
280.9
228.8
182.1
150.4
125.0
60.4
0.0

F REPORT)