

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: P939138

Luminaire Tested: **GALN-SB1C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5097 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

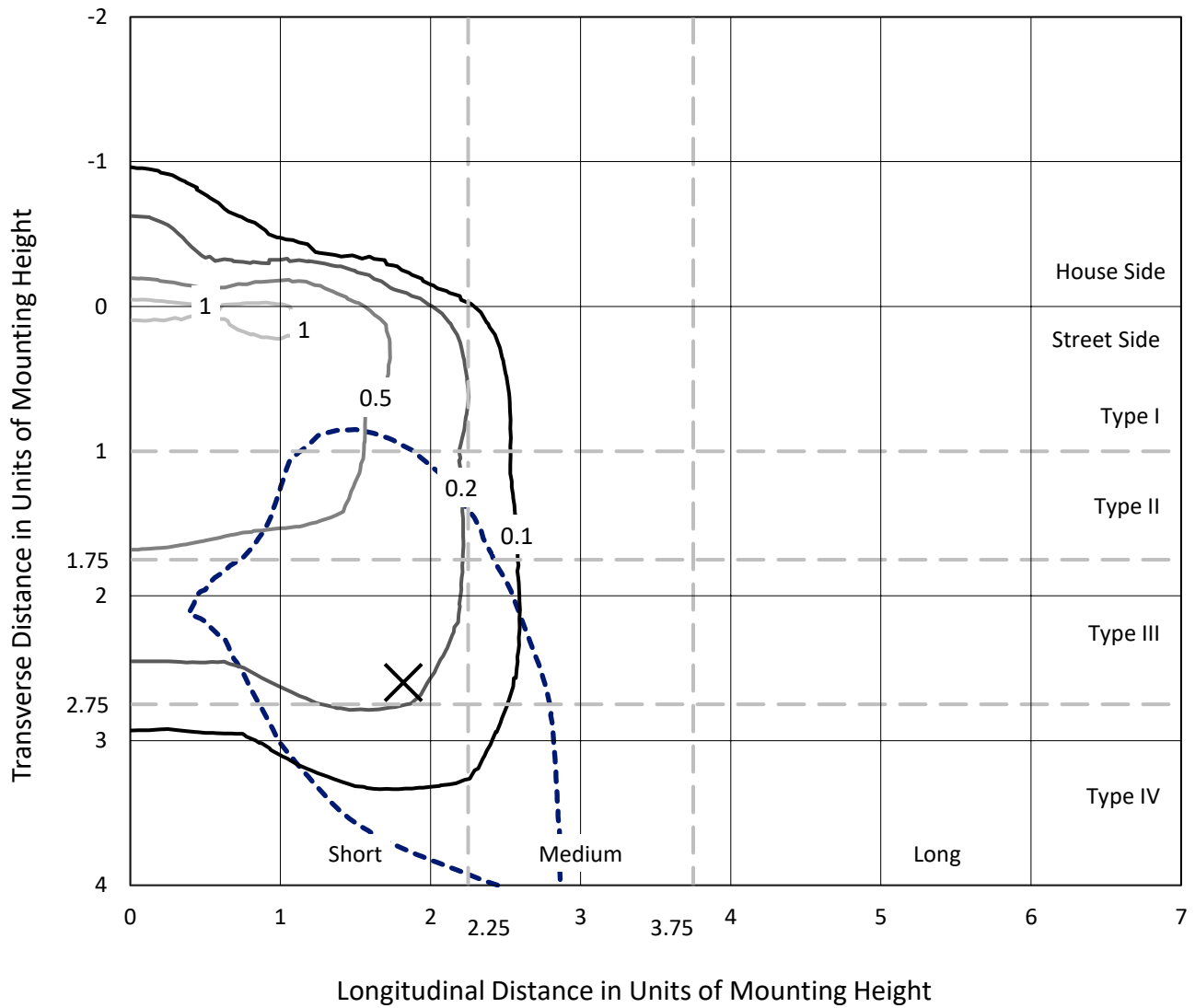
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939138
 CATALOG NUMBER: GALN-SB1C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

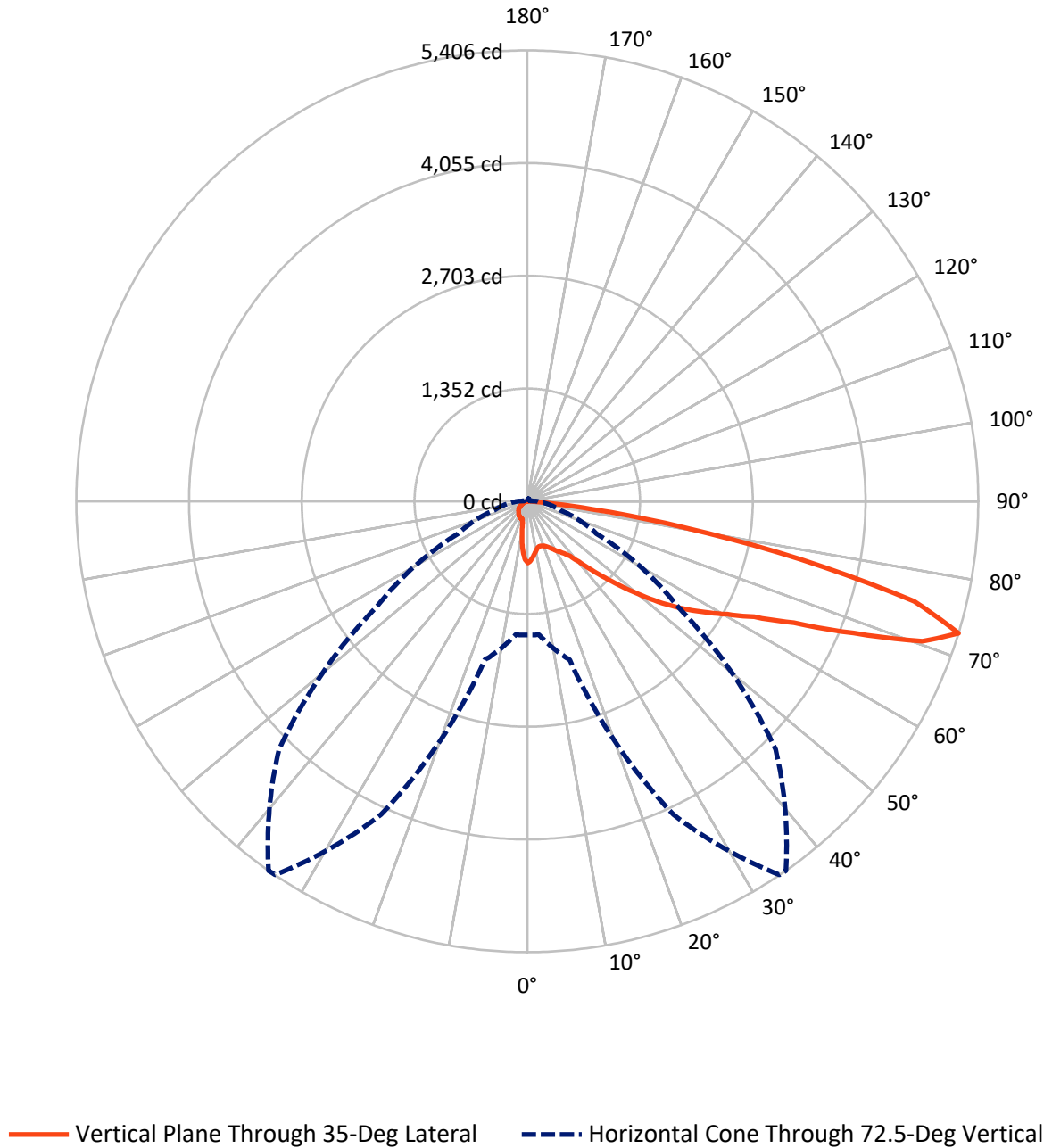
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P939138
CATALOG NUMBER: GALN-SB1C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P939138
 CATALOG NUMBER: GALN-SB1C-830-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.6	0.0	573.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4523.4	0.0	4523.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	5097.0	0.0	5097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.2
10°-20°	142.0	2.8
20°-30°	230.7	4.5
30°-40°	384.9	7.6
40°-50°	728.2	14.3
50°-60°	1157.2	22.7
60°-70°	1431.5	28.1
70°-80°	889.8	17.5
80°-90°	71.9	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°	5097.0	100.0
0°-180°	5097.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939138

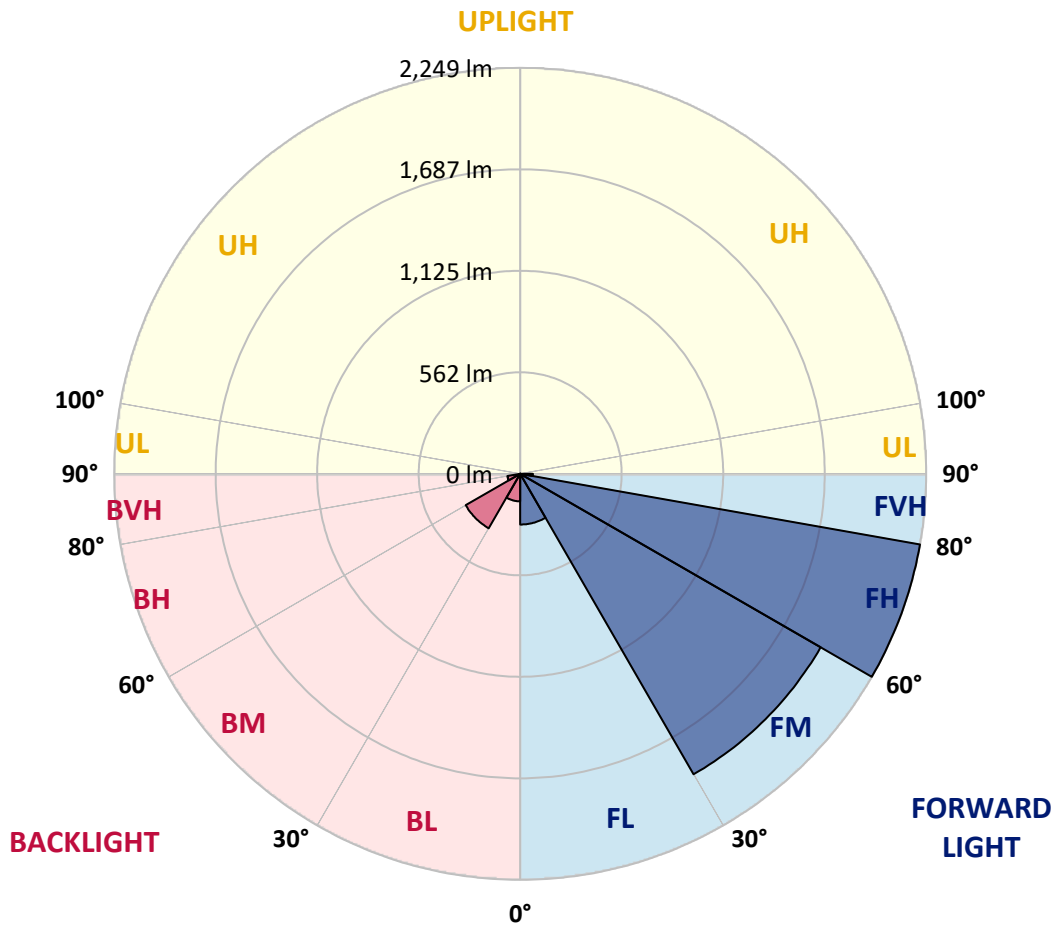
CATALOG NUMBER: GALN-SB1C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.0	5.5			
FM (30°-60°)	1922.1	37.7			
FH (60°-80°)	2249.4	44.1			G2/5000
FVH (80°-90°)	70.9	1.4			G1/100
BL (0°-30°)	152.4	3.0	B1/500		
BM (30°-60°)	348.3	6.8	B1/1000		
BH (60°-80°)	72.0	1.4	B0/110		G0/110
BVH (80°-90°)	1.0	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 IV Short



REPORT NUMBER: P939138
 CATALOG NUMBER: GALN-SB1C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	738.7	738.7	738.7	738.7	738.7	738.7	738.7	738.7	738.7	738.7
2.5°	705.9	711.8	713.0	714.8	714.8	717.1	720.8	726.0	734.6	739.1
5°	650.6	655.1	660.7	665.2	673.7	674.9	689.4	703.6	723.4	738.4
7.5°	594.9	600.2	607.6	618.5	629.7	633.0	655.1	679.0	710.3	738.4
10°	555.7	556.1	562.8	573.7	591.6	595.7	622.6	656.6	695.8	733.9
12.5°	533.7	536.3	539.3	547.5	564.7	567.3	596.1	636.0	681.2	731.3
15°	533.7	535.6	537.4	541.5	555.4	557.6	583.0	623.0	673.7	732.4
17.5°	539.3	542.3	540.8	545.6	560.2	561.7	584.1	619.2	673.4	739.5
20°	552.7	555.0	552.0	555.0	569.5	572.5	595.7	626.3	679.7	751.8
22.5°	574.0	575.1	568.0	570.3	585.2	589.0	615.9	646.5	695.0	771.6
25°	600.9	603.2	592.3	594.9	609.1	613.6	644.6	676.7	719.3	798.9
27.5°	631.9	633.0	623.7	623.3	641.6	648.0	679.3	714.1	751.8	833.2
30°	667.4	670.8	661.8	660.3	683.5	688.7	719.7	760.0	799.6	884.8
32.5°	695.4	698.0	692.8	696.5	720.1	724.2	768.6	825.0	874.7	958.0
35°	735.7	737.2	725.3	732.0	758.9	769.4	835.5	916.1	969.2	1049.8
37.5°	881.8	881.8	831.0	797.7	823.5	832.8	927.0	1030.8	1085.7	1173.1
40°	1083.8	1080.5	1006.1	938.2	934.8	953.1	1057.3	1175.3	1236.2	1321.0
42.5°	1299.3	1294.1	1192.9	1125.6	1114.4	1120.8	1207.8	1353.5	1415.5	1501.4
45°	1490.5	1489.0	1396.4	1306.0	1285.9	1306.0	1395.7	1561.9	1606.3	1696.7
47.5°	1650.7	1650.7	1583.1	1524.1	1513.7	1525.6	1650.0	1793.0	1788.9	1904.7
50°	1835.2	1833.7	1769.5	1744.1	1754.9	1771.7	1942.8	2036.5	1977.9	2109.0
52.5°	1964.5	1973.4	1951.4	1947.3	2002.6	2031.7	2240.1	2274.8	2147.1	2302.8
55°	2066.8	2077.2	2102.6	2131.4	2237.8	2275.9	2528.0	2500.8	2288.6	2470.9
57.5°	2211.7	2196.8	2236.0	2292.7	2464.9	2510.8	2807.0	2714.0	2402.5	2607.2
60°	2387.6	2389.8	2396.6	2468.3	2691.6	2750.6	3081.9	2915.7	2475.7	2690.9
62.5°	2599.0	2602.3	2616.2	2726.3	2996.0	3051.6	3374.7	3080.8	2509.4	2667.3
65°	2584.4	2598.6	2752.9	3129.7	3458.7	3513.6	3716.4	3196.5	2458.6	2452.2
67.5°	2354.4	2377.5	2635.6	3611.5	4156.4	4217.6	4129.5	3219.3	2239.3	1906.9
70°	2052.6	2060.8	2371.2	4044.7	4964.2	5026.2	4499.2	2968.7	1699.3	1063.6
72.5°	1602.9	1604.8	1968.9	4145.2	5402.6	5406.0	4209.0	2203.9	913.9	408.6
75°	1145.1	1133.9	1318.7	3361.6	4753.2	4791.3	3155.5	1033.8	349.2	193.1
77.5°	614.0	626.3	746.2	1993.6	3283.6	3348.5	1721.7	298.0	177.8	131.5
80°	189.7	200.2	305.9	912.8	1859.9	1899.1	638.3	132.6	124.0	93.7
82.5°	59.8	62.0	142.7	383.6	772.0	789.9	184.9	75.1	84.8	62.0
85°	17.2	17.6	63.5	143.0	190.8	194.6	51.9	29.1	48.6	38.5
87.5°	1.9	6.0	23.9	23.9	16.8	16.4	5.6	6.3	13.8	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939138
 CATALOG NUMBER: GALN-SB1C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
738.7	0°	738.7	738.7	738.7	738.7	738.7	738.7	738.7	738.7	738.7	738.7
742.1	2.5°	740.2	740.6	735.7	727.5	718.6	711.1	701.8	694.3	689.1	687.6
748.8	5°	745.4	742.8	729.0	704.0	674.1	648.3	619.6	596.8	581.9	575.5
755.9	7.5°	753.3	745.8	715.6	666.3	609.1	558.3	506.8	466.8	441.4	428.7
762.6	10°	760.0	745.1	693.2	611.7	524.4	447.4	378.0	329.8	302.9	290.2
770.5	12.5°	766.4	744.7	664.0	547.1	428.7	334.6	270.0	246.1	238.6	236.0
783.2	15°	778.3	745.8	627.4	473.2	333.5	252.8	229.3	228.9	230.4	229.7
802.6	17.5°	794.7	746.9	586.0	394.8	257.3	223.0	221.8	225.2	227.4	226.3
826.9	20°	816.0	751.4	541.9	317.1	221.1	215.5	218.1	221.1	223.0	221.1
859.4	22.5°	845.9	759.3	493.7	254.7	209.5	211.0	213.3	216.6	218.5	215.9
900.8	25°	882.5	771.6	446.3	221.5	203.9	205.8	209.1	212.9	215.1	212.5
953.1	27.5°	929.9	791.4	402.6	214.0	198.3	199.4	204.3	209.9	212.9	209.5
1027.4	30°	998.7	823.9	364.9	217.4	195.0	192.3	199.1	206.9	210.3	207.3
1128.6	32.5°	1089.8	869.8	341.7	222.6	193.5	184.1	190.5	200.6	206.2	204.3
1260.8	35°	1209.3	939.7	332.8	228.6	192.3	175.5	180.0	190.8	200.6	202.4
1427.4	37.5°	1354.2	1036.8	335.4	231.2	189.0	168.4	170.7	180.0	192.7	198.7
1614.9	40°	1518.9	1149.9	350.3	228.6	185.2	162.5	162.8	169.9	181.1	190.1
1816.6	42.5°	1688.8	1282.1	378.0	218.9	181.9	157.2	156.1	161.0	168.4	174.8
2017.9	45°	1850.6	1418.1	405.2	205.4	177.8	152.0	149.4	151.3	152.7	155.4
2213.9	47.5°	1991.7	1513.7	397.4	193.1	172.2	146.0	141.5	140.8	136.3	135.9
2389.1	50°	2089.2	1534.6	352.9	180.8	164.0	139.3	132.2	127.7	119.9	116.1
2520.2	52.5°	2120.2	1452.1	288.3	168.4	150.5	130.3	120.3	113.2	103.5	100.1
2595.6	55°	2079.1	1290.3	230.4	153.5	131.8	118.4	107.2	97.8	90.0	85.9
2603.8	57.5°	1978.7	1084.6	182.3	135.9	112.0	104.9	93.7	84.4	77.7	73.6
2512.7	60°	1812.1	861.2	144.2	115.0	95.6	90.4	78.8	72.8	66.9	62.0
2277.4	62.5°	1559.2	614.7	113.2	91.1	79.9	73.9	67.2	62.7	55.6	48.9
1854.3	65°	1216.8	376.1	87.4	66.9	64.2	61.2	57.1	53.0	44.4	37.7
1209.7	67.5°	767.5	178.1	62.4	50.4	50.8	49.3	47.4	44.1	37.7	31.7
541.9	70°	338.0	86.3	41.1	38.5	37.7	37.7	39.2	38.1	32.1	26.5
188.2	72.5°	115.0	46.3	30.6	29.1	27.3	26.9	32.9	31.7	25.8	20.5
93.7	75°	60.1	31.0	22.4	20.9	16.4	19.8	26.1	24.6	18.3	13.4
62.0	77.5°	39.2	22.0	15.3	13.4	9.3	13.1	19.4	17.2	10.8	6.7
40.7	80°	24.6	14.6	9.0	6.3	4.5	7.1	10.5	7.5	4.1	1.5
23.9	82.5°	13.1	7.5	3.4	2.2	1.9	2.2	2.6	1.9	0.7	0.0
12.3	85°	5.2	2.6	1.1	0.7	0.4	0.0	0.7	0.4	0.0	0.0
2.2	87.5°	1.9	0.4	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>
738.7
690.2
577.8
430.6
290.6
235.3
229.3
226.0
220.7
215.5
212.1
209.5
206.9
204.3
202.4
200.2
193.1
177.4
156.9
135.6
116.5
99.7
85.9
72.8
60.9
47.8
36.6
31.0
25.4
19.4
12.3
6.0
1.1
0.0
0.0
0.0
0.0

F REPORT)