

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: P939508

Luminaire Tested: **GALN-SB2A-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939508
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-SB2A-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6497 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

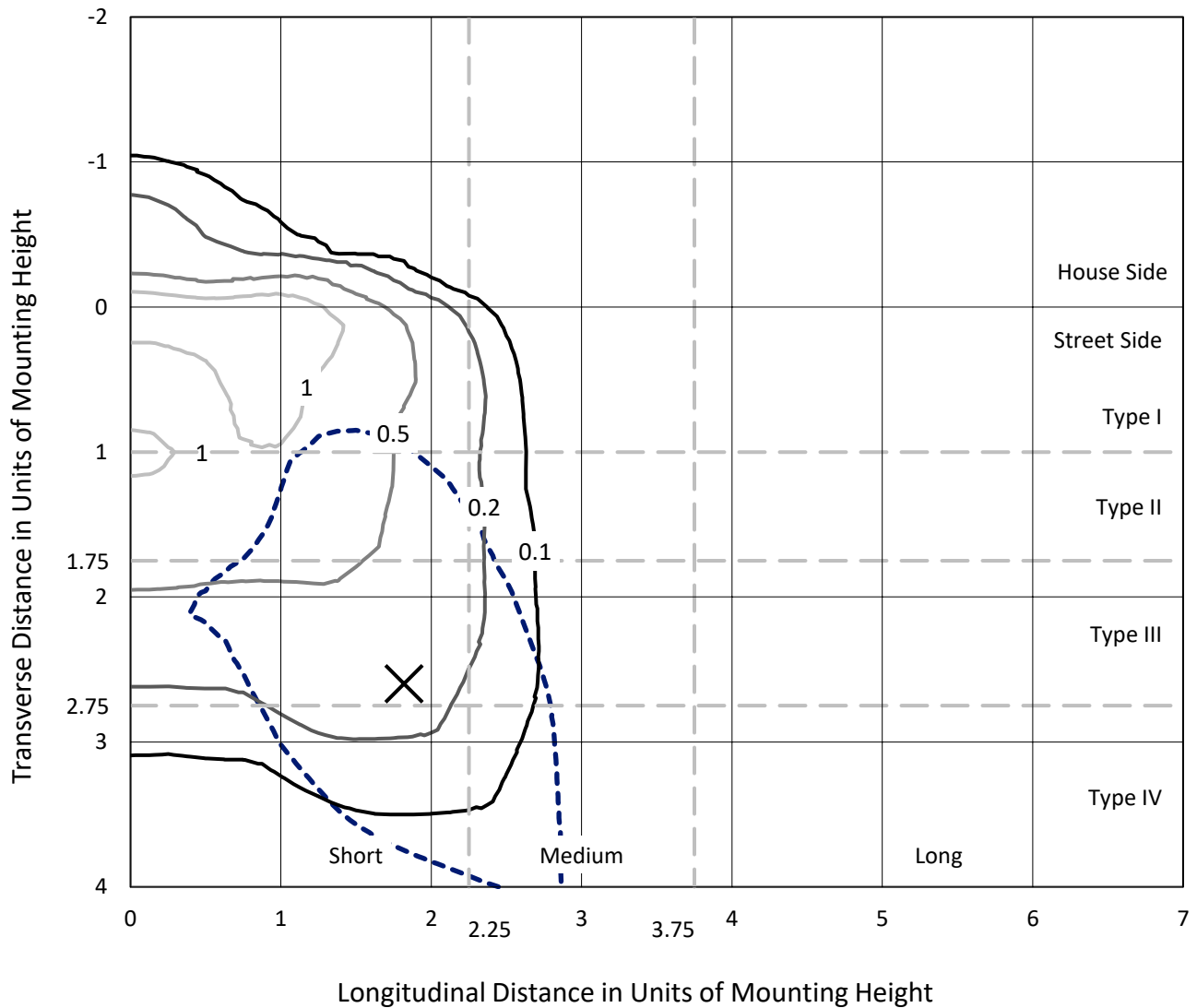
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939508
 CATALOG NUMBER: GALN-SB2A-850-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

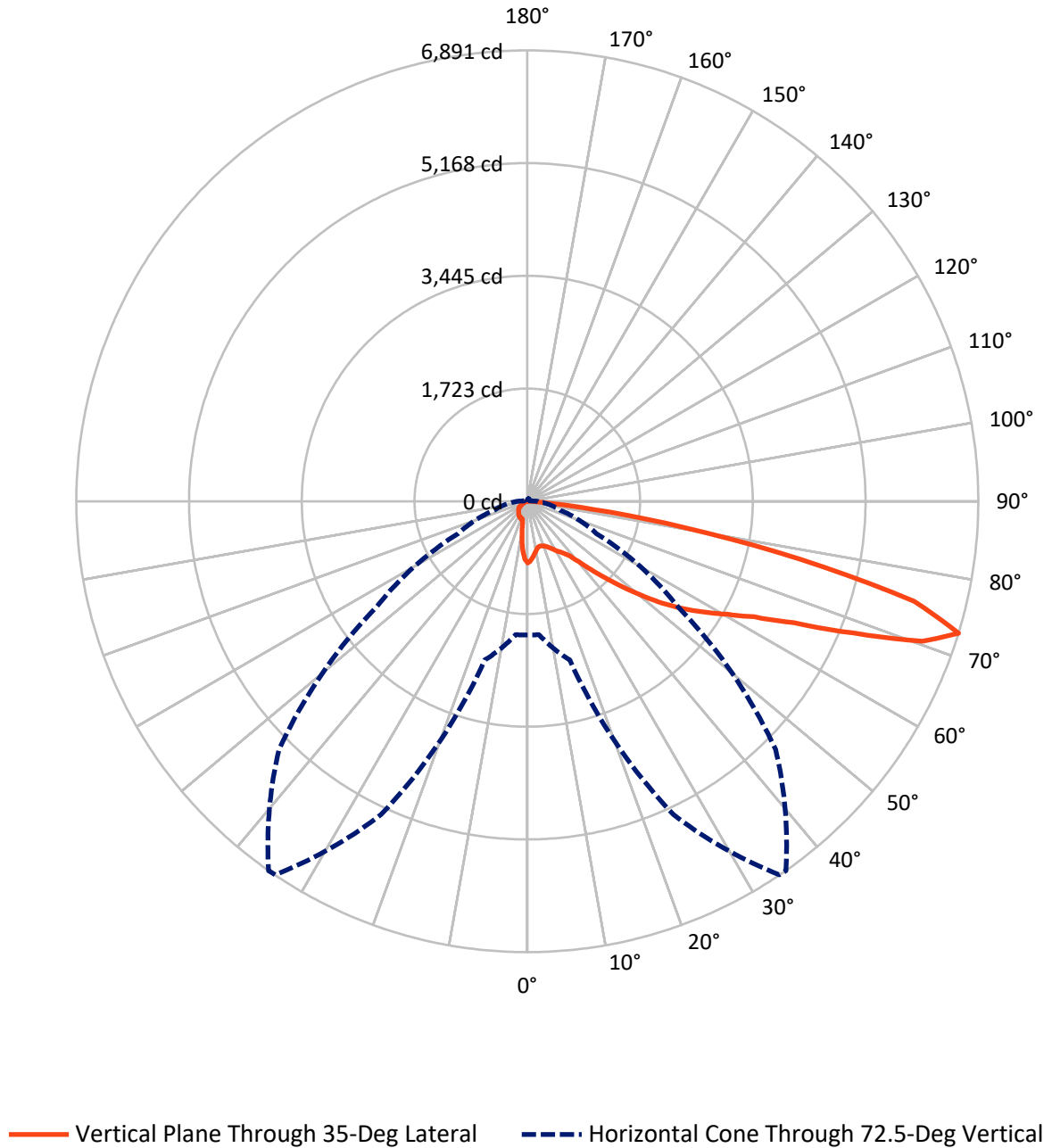
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P939508
CATALOG NUMBER: GALN-SB2A-850-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P939508
 CATALOG NUMBER: GALN-SB2A-850-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.2	0.0	731.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5765.8	0.0	5765.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	6497.0	0.0	6497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.2
10°-20°	181.0	2.8
20°-30°	294.1	4.5
30°-40°	490.6	7.6
40°-50°	928.3	14.3
50°-60°	1475.0	22.7
60°-70°	1824.7	28.1
70°-80°	1134.3	17.5
80°-90°	91.7	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°	6497.0	100.0
0°-180°	6497.0	100.0

Coefficient of Utilization



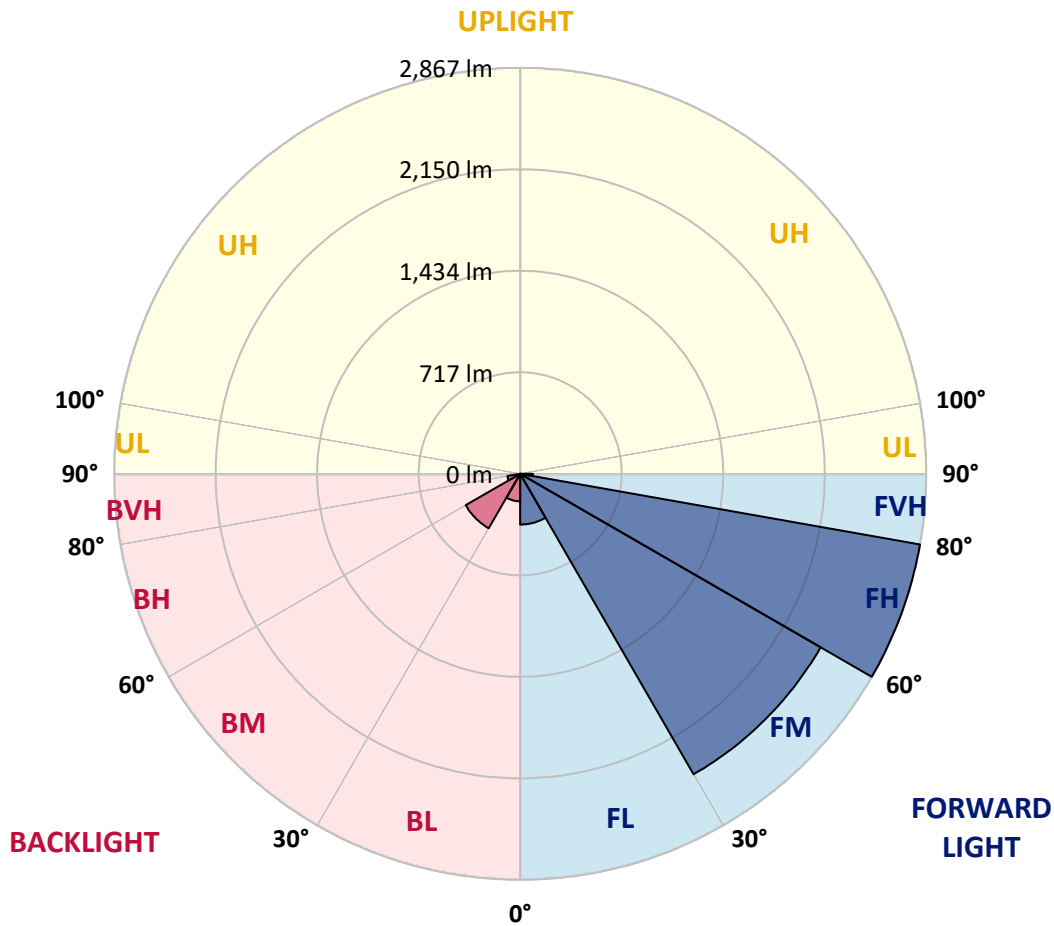
REPORT NUMBER: P939508
 CATALOG NUMBER: GALN-SB2A-850-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.1	5.5			
FM (30°-60°)	2450.0	37.7			
FH (60°-80°)	2867.2	44.1			G2/5000
FVH (80°-90°)	90.4	1.4			G1/100
BL (0°-30°)	194.3	3.0	B1/500		
BM (30°-60°)	443.9	6.8	B1/1000		
BH (60°-80°)	91.8	1.4	B0/110		G0/110
BVH (80°-90°)	1.3	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: P939508
 CATALOG NUMBER: GALN-SB2A-850-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6
2.5°	899.7	907.4	908.8	911.2	911.2	914.0	918.8	925.4	936.4	942.1
5°	829.3	835.0	842.1	847.9	858.8	860.2	878.8	896.9	922.1	941.2
7.5°	758.4	765.0	774.5	788.3	802.6	806.9	835.0	865.5	905.5	941.2
10°	708.4	708.8	717.4	731.2	754.1	759.3	793.6	836.9	886.9	935.4
12.5°	680.3	683.6	687.4	697.9	719.8	723.1	759.8	810.7	868.3	932.1
15°	680.3	682.7	685.0	690.3	707.9	710.7	743.1	794.1	858.8	933.5
17.5°	687.4	691.2	689.3	695.5	714.1	716.0	744.5	789.3	858.3	942.6
20°	704.6	707.4	703.6	707.4	726.0	729.8	759.3	798.3	866.4	958.3
22.5°	731.7	733.1	724.1	726.9	746.0	750.7	785.0	824.0	885.9	983.5
25°	766.0	768.8	755.0	758.4	776.4	782.2	821.7	862.6	916.9	1018.3
27.5°	805.5	806.9	795.0	794.5	817.9	826.0	865.9	910.2	958.3	1062.1
30°	850.7	855.0	843.6	841.7	871.2	877.8	917.4	968.8	1019.2	1127.8
32.5°	886.4	889.7	883.1	887.8	917.8	923.1	979.7	1051.6	1114.9	1221.1
35°	937.8	939.7	924.5	933.1	967.3	980.7	1064.9	1167.8	1235.4	1338.2
37.5°	1124.0	1124.0	1059.2	1016.8	1049.7	1061.6	1181.6	1313.9	1383.9	1495.3
40°	1381.5	1377.2	1282.5	1195.8	1191.6	1214.9	1347.7	1498.1	1575.7	1683.8
42.5°	1656.2	1649.5	1520.5	1434.8	1420.5	1428.6	1539.6	1725.2	1804.2	1913.7
45°	1899.9	1898.0	1780.0	1664.8	1639.1	1664.8	1779.0	1990.9	2047.5	2162.7
47.5°	2104.2	2104.2	2018.0	1942.8	1929.4	1944.7	2103.2	2285.5	2280.3	2427.9
50°	2339.3	2337.4	2255.5	2223.2	2237.0	2258.4	2476.4	2595.9	2521.2	2688.3
52.5°	2504.0	2515.5	2487.4	2482.1	2552.6	2589.7	2855.4	2899.6	2736.8	2935.3
55°	2634.5	2647.8	2680.2	2716.8	2852.5	2901.1	3222.4	3187.7	2917.3	3149.6
57.5°	2819.2	2800.1	2850.1	2922.5	3142.0	3200.5	3578.0	3459.5	3062.4	3323.3
60°	3043.4	3046.3	3054.8	3146.2	3430.9	3506.1	3928.4	3716.5	3155.8	3430.0
62.5°	3312.9	3317.1	3334.8	3475.2	3818.9	3889.8	4301.6	3927.0	3198.6	3400.0
65°	3294.3	3312.4	3509.0	3989.3	4408.7	4478.7	4737.2	4074.5	3133.9	3125.8
67.5°	3001.0	3030.6	3359.5	4603.4	5298.0	5376.1	5263.7	4103.6	2854.4	2430.7
70°	2616.4	2626.9	3022.5	5155.7	6327.7	6406.7	5735.0	3784.1	2166.0	1355.8
72.5°	2043.2	2045.6	2509.8	5283.7	6886.6	6890.9	5365.1	2809.2	1164.9	520.8
75°	1459.6	1445.3	1680.9	4285.0	6058.7	6107.3	4022.2	1317.7	445.1	246.1
77.5°	782.6	798.3	951.2	2541.2	4185.5	4268.3	2194.6	379.9	226.6	167.6
80°	241.8	255.2	389.9	1163.5	2370.7	2420.7	813.6	169.0	158.0	119.5
82.5°	76.2	79.0	181.9	488.9	984.0	1006.9	235.6	95.7	108.1	79.0
85°	21.9	22.4	80.9	182.3	243.3	248.0	66.2	37.1	61.9	49.0
87.5°	2.4	7.6	30.5	30.5	21.4	20.9	7.1	8.1	17.6	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939508
 CATALOG NUMBER: GALN-SB2A-850-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
941.6	0°	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6
945.9	2.5°	943.5	944.0	937.8	927.4	915.9	906.4	894.5	885.0	878.3	876.4
954.5	5°	950.2	946.9	929.3	897.4	859.3	826.4	789.8	760.7	741.7	733.6
963.5	7.5°	960.2	950.7	912.1	849.3	776.4	711.7	646.0	595.1	562.7	546.5
972.1	10°	968.8	949.7	883.6	779.8	668.4	570.3	481.8	420.4	386.1	369.9
982.1	12.5°	976.9	949.2	846.4	697.4	546.5	426.5	344.2	313.7	304.2	300.9
998.3	15°	992.1	950.7	799.8	603.2	425.1	322.3	292.3	291.8	293.7	292.8
1023.0	17.5°	1013.0	952.1	746.9	503.2	328.0	284.2	282.8	287.1	289.9	288.5
1054.0	20°	1040.2	957.8	690.8	404.2	281.8	274.7	278.0	281.8	284.2	281.8
1095.4	22.5°	1078.3	967.8	629.3	324.7	267.1	269.0	271.8	276.1	278.5	275.2
1148.2	25°	1124.9	983.5	568.9	282.3	259.9	262.3	266.6	271.4	274.2	270.9
1214.9	27.5°	1185.4	1008.8	513.2	272.8	252.8	254.2	260.4	267.5	271.4	267.1
1309.6	30°	1273.0	1050.2	465.1	277.1	248.5	245.2	253.7	263.7	268.0	264.2
1438.6	32.5°	1389.1	1108.7	435.6	283.7	246.6	234.7	242.8	255.6	262.8	260.4
1607.2	35°	1541.5	1197.7	424.2	291.3	245.2	223.7	229.5	243.3	255.6	258.0
1819.5	37.5°	1726.2	1321.5	427.5	294.7	240.9	214.7	217.6	229.5	245.6	253.3
2058.5	40°	1936.1	1465.8	446.5	291.3	236.1	207.1	207.6	216.6	230.9	242.3
2315.5	42.5°	2152.7	1634.3	481.8	279.0	231.8	200.4	199.0	205.2	214.7	222.8
2572.1	45°	2358.8	1807.6	516.5	261.8	226.6	193.8	190.4	192.8	194.7	198.0
2822.0	47.5°	2538.8	1929.4	506.5	246.1	219.5	186.1	180.4	179.5	173.8	173.3
3045.3	50°	2663.0	1956.1	449.9	230.4	209.0	177.6	168.5	162.8	152.8	148.1
3212.4	52.5°	2702.6	1850.9	367.5	214.7	191.8	166.1	153.3	144.2	131.9	127.6
3308.6	55°	2650.2	1644.8	293.7	195.7	168.0	150.9	136.6	124.7	114.7	109.5
3319.0	57.5°	2522.1	1382.5	232.3	173.3	142.8	133.8	119.5	107.6	99.0	93.8
3202.9	60°	2309.8	1097.8	183.8	146.6	121.9	115.2	100.4	92.8	85.2	79.0
2903.0	62.5°	1987.5	783.6	144.2	116.2	101.9	94.3	85.7	80.0	70.9	62.4
2363.6	65°	1551.0	479.4	111.4	85.2	81.9	78.1	72.8	67.6	56.7	48.1
1541.9	67.5°	978.3	227.1	79.5	64.3	64.7	62.8	60.5	56.2	48.1	40.5
690.8	70°	430.8	110.0	52.4	49.0	48.1	48.1	50.0	48.6	40.9	33.8
239.9	72.5°	146.6	59.0	39.0	37.1	34.8	34.3	41.9	40.5	32.8	26.2
119.5	75°	76.6	39.5	28.6	26.7	20.9	25.2	33.3	31.4	23.3	17.1
79.0	77.5°	50.0	28.1	19.5	17.1	11.9	16.7	24.8	21.9	13.8	8.6
51.9	80°	31.4	18.6	11.4	8.1	5.7	9.0	13.3	9.5	5.2	1.9
30.5	82.5°	16.7	9.5	4.3	2.9	2.4	2.9	3.3	2.4	1.0	0.0
15.7	85°	6.7	3.3	1.4	1.0	0.5	0.0	1.0	0.5	0.0	0.0
2.9	87.5°	2.4	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>
941.6
879.7
736.5
548.9
370.4
299.9
292.3
288.0
281.3
274.7
270.4
267.1
263.7
260.4
258.0
255.2
246.1
226.1
199.9
172.8
148.5
127.1
109.5
92.8
77.6
60.9
46.7
39.5
32.4
24.8
15.7
7.6
1.4
0.0
0.0
0.0
0.0

F REPORT)