

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: P938911

Luminaire Tested: **GALN-SB1B-735-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3932 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

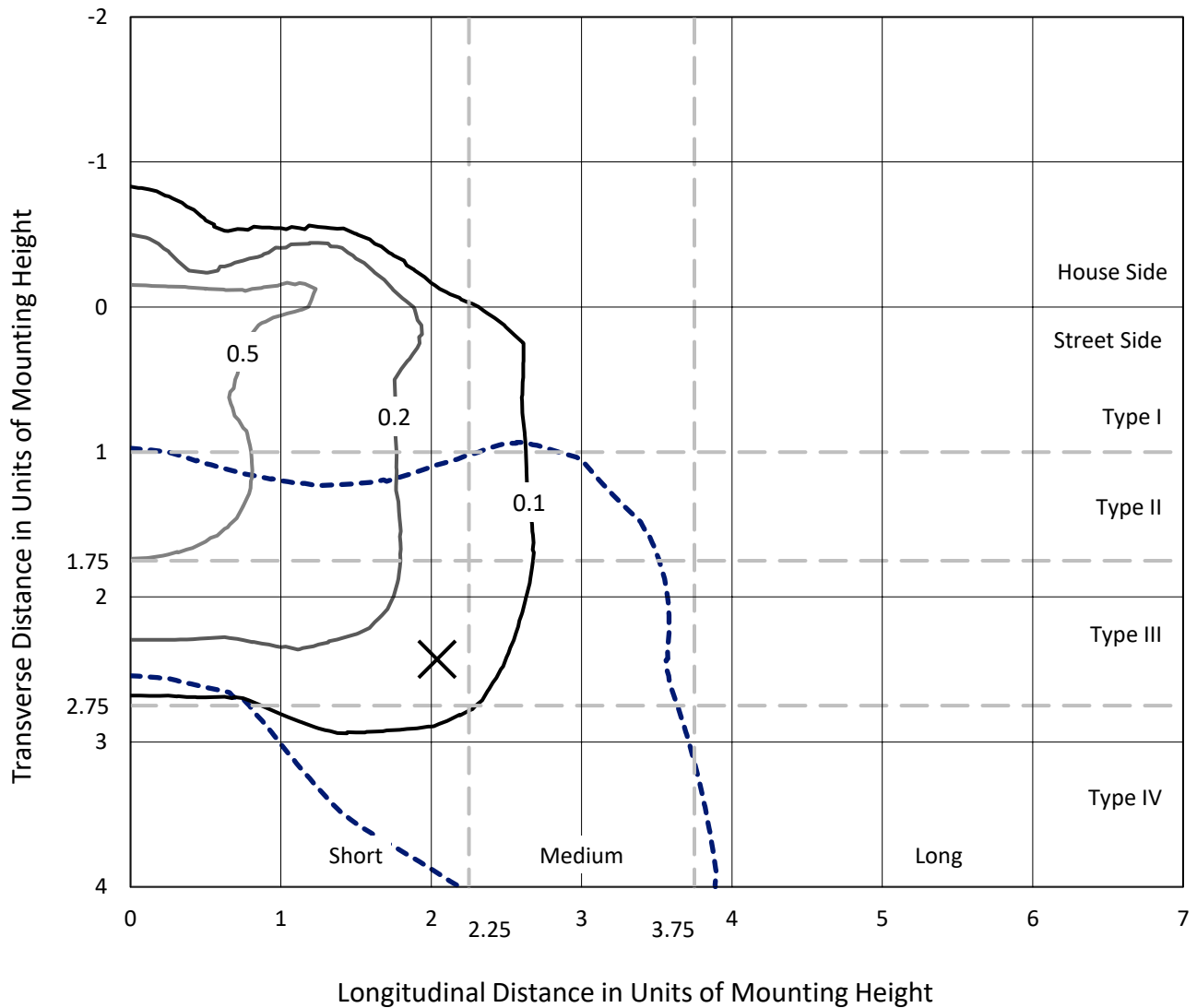
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938911
 CATALOG NUMBER: GALN-SB1B-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

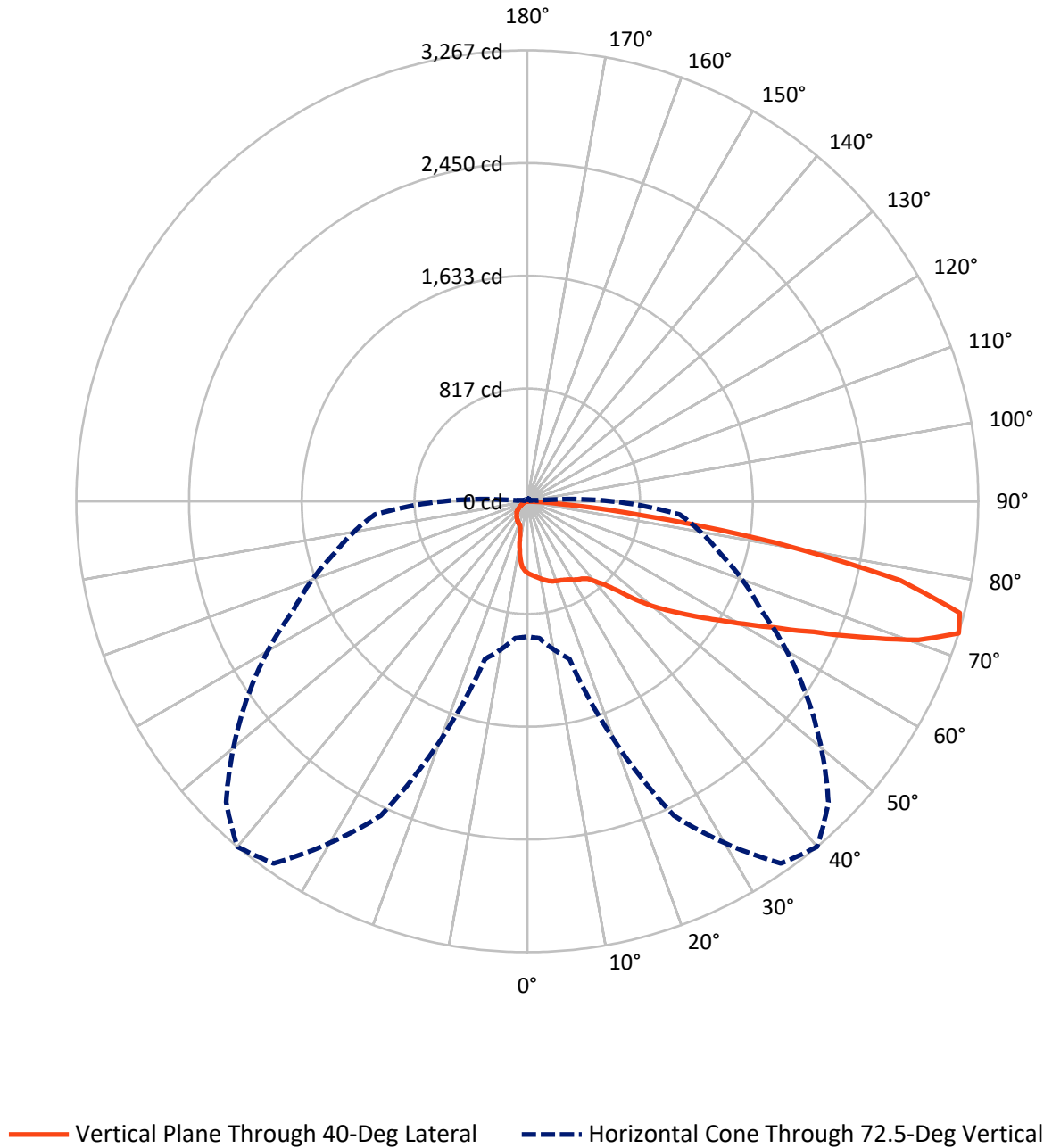
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

REPORT NUMBER: P938911
CATALOG NUMBER: GALN-SB1B-735-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P938911
 CATALOG NUMBER: GALN-SB1B-735-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.8	0.0	507.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3424.2	0.0	3424.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	3932.0	0.0	3932.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	1.2
10°-20°	129.1	3.3
20°-30°	208.9	5.3
30°-40°	308.5	7.8
40°-50°	519.1	13.2
50°-60°	806.1	20.5
60°-70°	1008.6	25.7
70°-80°	825.8	21.0
80°-90°	78.3	2.0
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°	3932.0	100.0
0°-180°	3932.0	100.0



REPORT NUMBER: P938911

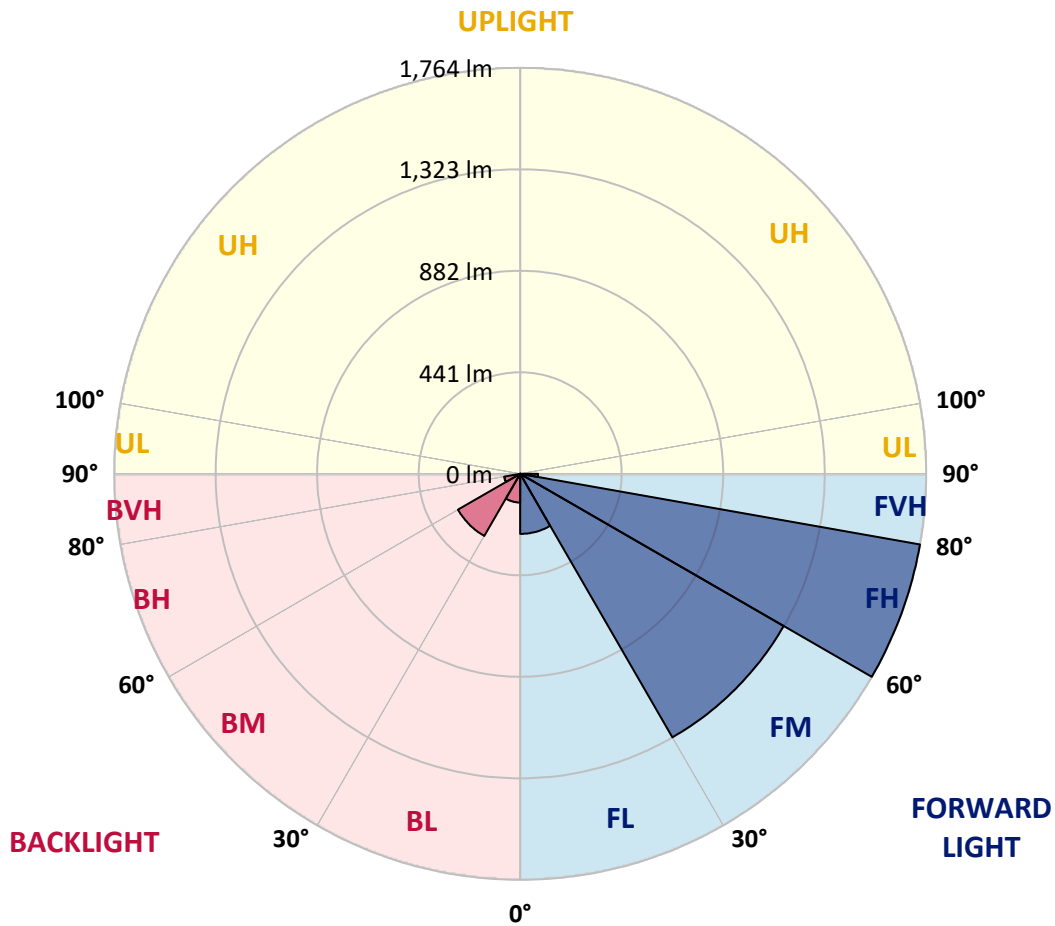
CATALOG NUMBER: GALN-SB1B-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.0	6.6			
FM (30°-60°)	1321.9	33.6			
FH (60°-80°)	1763.7	44.9			G1/1800
FVH (80°-90°)	77.7	2.0			G1/100
BL (0°-30°)	124.6	3.2	B1/500		
BM (30°-60°)	311.8	7.9	B1/1000		
BH (60°-80°)	70.7	1.8	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1

Type IV Short



REPORT NUMBER: P938911
 CATALOG NUMBER: GALN-SB1B-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6
2.5°	536.3	538.4	537.2	534.8	534.3	533.1	531.6	531.0	528.9	527.1
5°	551.4	553.5	552.0	548.8	547.3	545.8	543.7	542.0	537.8	534.0
7.5°	568.0	569.8	568.0	563.3	560.9	559.1	556.2	553.5	548.8	543.1
10°	586.4	587.9	585.2	579.0	575.1	572.5	569.8	566.8	562.4	556.2
12.5°	603.6	605.3	601.2	593.8	589.3	586.7	583.7	581.3	576.9	571.0
15°	619.2	621.9	614.8	606.8	601.8	599.7	596.7	595.3	592.3	588.2
17.5°	631.1	632.9	625.5	616.0	610.4	608.9	606.8	607.7	607.1	605.0
20°	641.2	642.3	632.6	621.0	614.8	615.1	614.5	617.5	618.7	618.7
22.5°	653.6	653.9	641.5	626.9	619.5	621.6	622.5	625.8	628.1	630.5
25°	669.9	669.3	654.5	634.6	628.1	631.1	633.2	634.3	637.0	640.9
27.5°	694.2	692.4	673.4	647.1	639.4	642.0	645.9	645.3	644.1	647.1
30°	725.0	722.6	697.4	664.6	657.4	659.8	661.0	655.7	647.1	649.7
32.5°	773.8	769.7	734.7	684.1	673.1	675.8	674.3	663.4	650.6	653.3
35°	858.8	848.8	799.3	725.0	690.9	688.0	684.4	673.7	658.0	655.4
37.5°	1039.5	1021.7	937.3	804.6	731.2	711.9	701.0	690.3	666.0	655.4
40°	1243.2	1225.2	1127.7	937.9	798.1	765.5	739.5	709.9	674.3	659.2
42.5°	1455.9	1436.0	1335.9	1103.2	893.8	826.8	778.3	725.6	688.0	671.1
45°	1693.4	1668.5	1537.6	1275.5	1032.7	928.7	840.8	757.8	711.6	692.1
47.5°	1943.9	1911.6	1738.7	1442.8	1182.2	1069.7	955.1	815.6	746.6	723.5
50°	2166.0	2134.0	1946.3	1617.9	1322.0	1203.8	1085.4	895.6	799.0	767.9
52.5°	2325.7	2301.4	2135.2	1798.5	1467.4	1329.7	1203.5	988.5	865.3	824.8
55°	2432.6	2410.4	2269.1	1969.7	1636.5	1468.3	1319.9	1089.5	945.3	892.9
57.5°	2497.4	2484.7	2365.9	2122.5	1804.1	1619.9	1453.2	1200.6	1039.5	973.1
60°	2520.5	2510.2	2426.0	2268.2	2006.7	1802.1	1609.9	1325.9	1153.8	1064.4
62.5°	2458.9	2461.0	2469.3	2440.9	2220.2	2015.3	1797.6	1476.3	1280.5	1167.7
65°	2169.0	2186.2	2343.7	2632.2	2503.0	2282.4	2036.6	1659.9	1425.7	1285.3
67.5°	1795.8	1820.7	2016.8	2744.1	2804.5	2629.2	2369.5	1893.9	1598.6	1404.9
70°	1374.7	1401.4	1638.9	2720.7	3086.8	3008.3	2781.1	2191.5	1777.8	1487.8
72.5°	981.1	994.8	1181.9	2512.5	3202.5	3266.5	3084.4	2473.4	1869.3	1441.9
75°	689.4	687.1	811.2	2023.3	3022.2	3235.1	2978.1	2320.9	1691.6	1145.5
77.5°	300.3	300.9	405.1	1228.7	2412.1	2763.1	2475.5	1453.8	1179.3	607.1
80°	77.9	80.3	148.7	489.2	1452.3	1823.7	1509.8	639.1	544.9	148.1
82.5°	27.5	29.3	68.4	153.7	535.7	836.3	672.3	204.3	142.2	42.3
85°	8.0	9.5	36.7	47.1	110.8	236.3	163.2	39.7	34.9	21.9
87.5°	0.0	1.2	7.4	6.5	6.5	4.4	8.3	4.4	5.6	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938911
 CATALOG NUMBER: GALN-SB1B-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
520.6	0°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6
525.1	2.5°	523.3	521.2	516.8	512.0	507.6	503.5	502.3	497.8	495.8	496.0
529.2	5°	526.0	522.1	513.5	503.2	492.5	480.4	470.3	456.1	443.9	442.4
537.2	7.5°	533.1	526.8	512.9	492.8	466.1	432.7	401.6	370.8	353.3	343.8
549.1	10°	544.0	535.7	514.4	475.9	419.3	359.5	312.4	273.6	253.8	244.6
563.6	12.5°	557.1	547.9	516.8	447.2	358.9	280.5	229.5	205.8	201.7	201.1
581.3	15°	575.4	565.3	519.4	408.4	293.5	213.5	190.1	190.4	193.7	195.5
600.6	17.5°	595.9	585.8	515.6	361.0	228.9	182.4	181.8	184.5	189.2	191.0
618.4	20°	616.6	607.1	502.0	305.3	185.1	173.8	176.2	179.2	183.9	186.3
635.8	22.5°	637.9	629.6	480.4	246.1	167.0	167.6	170.6	173.5	178.9	181.5
653.0	25°	660.7	653.6	451.6	197.2	159.3	161.1	165.0	168.5	174.1	177.4
667.5	27.5°	683.8	678.5	419.0	164.7	152.2	154.3	158.7	163.5	169.1	173.0
680.3	30°	709.0	706.0	393.0	152.5	145.4	147.2	152.2	157.6	163.8	168.5
693.0	32.5°	734.7	734.2	380.3	161.4	139.2	140.4	144.8	150.1	157.8	163.8
703.6	35°	760.2	761.4	372.9	186.6	137.1	133.9	136.8	141.6	150.7	158.1
715.8	37.5°	792.8	795.8	372.6	213.8	142.2	127.3	129.4	132.7	140.7	149.3
734.7	40°	841.4	857.1	391.5	237.2	151.0	121.4	122.0	122.6	126.8	133.9
759.9	42.5°	905.9	951.8	459.9	253.2	154.6	116.1	114.0	110.8	110.2	114.0
794.3	45°	986.2	1066.4	580.2	262.1	151.0	110.2	104.5	96.0	92.7	95.4
840.8	47.5°	1080.6	1192.0	722.6	264.2	145.1	102.8	92.7	81.4	78.8	79.7
903.3	50°	1172.7	1286.2	847.9	247.0	135.3	93.3	79.7	70.2	68.4	68.7
977.0	52.5°	1254.2	1318.5	883.4	206.4	122.3	81.7	68.4	61.9	60.7	60.7
1058.4	55°	1308.1	1283.5	787.8	157.8	106.0	69.9	58.6	55.4	54.8	54.5
1149.4	57.5°	1319.3	1169.8	595.0	114.0	82.9	58.9	52.1	50.3	49.2	48.0
1242.6	60°	1279.1	980.3	378.8	79.7	62.2	50.3	46.2	45.0	42.6	40.3
1330.3	62.5°	1192.0	740.4	209.7	55.4	50.0	42.9	40.9	39.4	34.9	31.1
1399.9	65°	1075.0	492.2	92.7	43.2	40.9	36.1	34.9	32.9	27.5	23.1
1426.3	67.5°	957.4	283.4	41.8	34.6	32.9	29.6	28.7	27.2	23.4	19.2
1359.0	70°	823.3	143.6	28.7	27.5	25.5	22.5	23.4	23.1	19.2	15.7
1108.5	72.5°	613.0	71.4	21.6	20.7	18.4	16.0	19.2	19.0	15.1	11.8
683.5	75°	347.1	35.2	15.7	14.5	11.0	11.8	15.4	14.5	10.4	7.7
288.4	77.5°	137.7	18.1	10.4	8.9	6.5	8.0	11.3	9.8	5.3	3.3
55.1	80°	31.7	8.9	5.3	3.8	3.0	4.7	5.9	3.6	1.5	0.3
14.8	82.5°	8.9	3.8	1.8	1.5	1.5	1.8	1.5	0.6	0.0	0.0
3.8	85°	3.0	1.8	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.2	87.5°	1.2	0.6	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>
520.6
495.8
441.6
343.2
242.8
200.8
195.2
190.7
186.3
181.5
177.4
173.2
169.1
164.4
159.3
150.7
136.2
116.1
95.4
79.4
68.7
60.4
53.9
47.4
39.4
29.9
22.2
18.7
15.1
11.3
7.1
3.0
0.0
0.0
0.0
0.0
0.0

F REPORT)