

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: P945622

Luminaire Tested: **GALN-SB1C-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5725 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

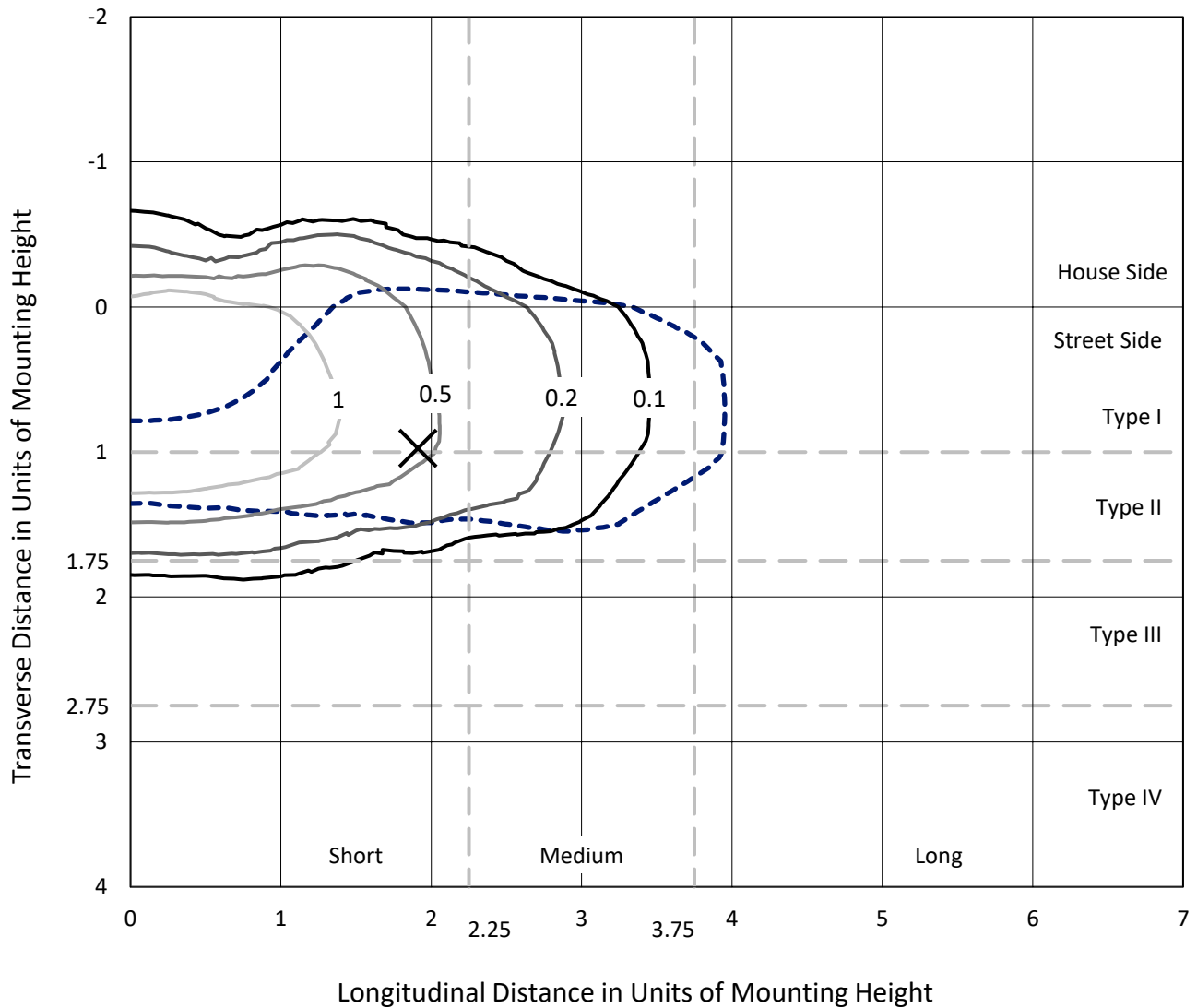
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945622
 CATALOG NUMBER: GALN-SB1C-735-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

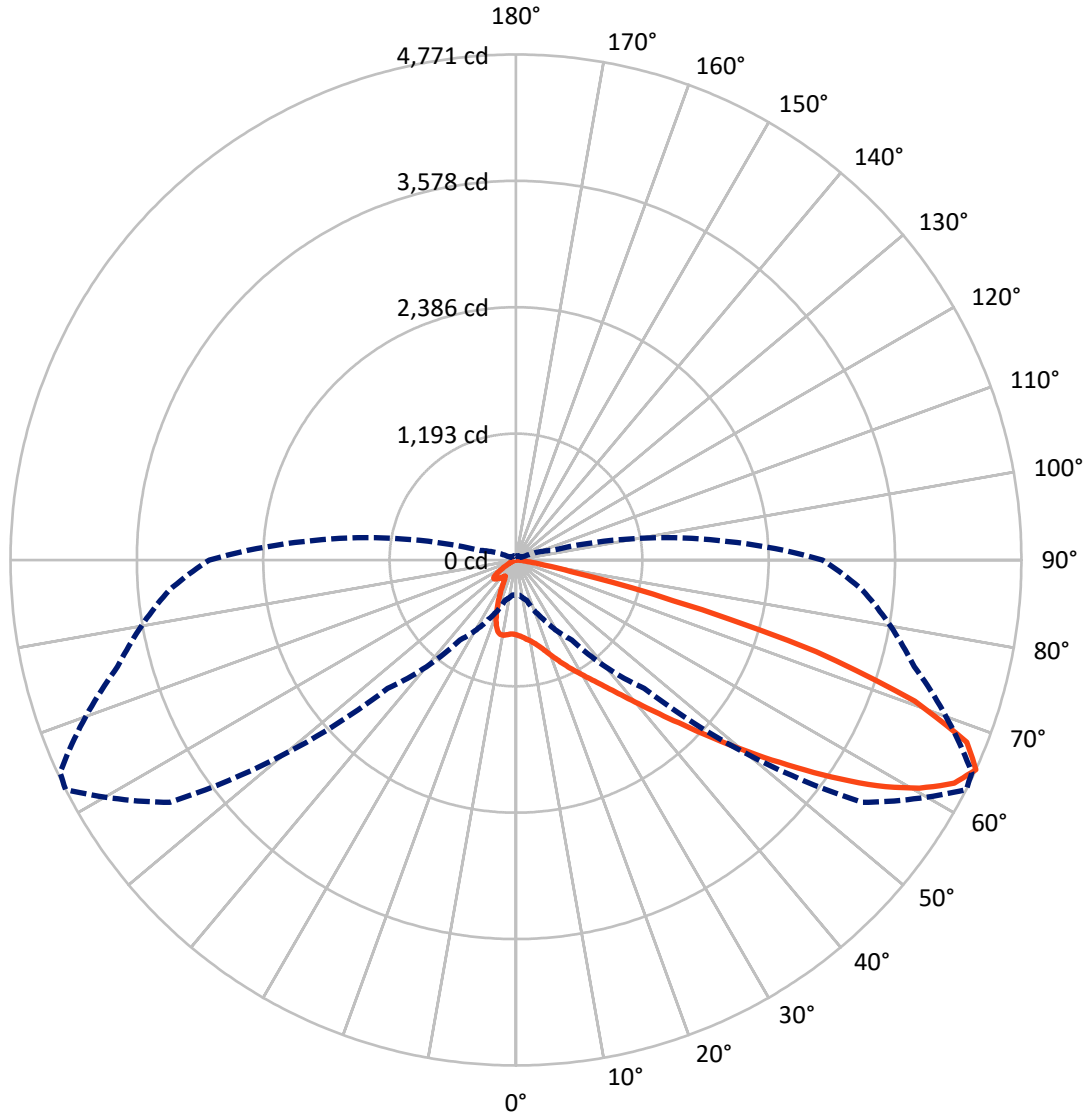
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

REPORT NUMBER: P945622
CATALOG NUMBER: GALN-SB1C-735-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P945622

CATALOG NUMBER: GALN-SB1C-735-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	841.5	0.0	841.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4883.5	0.0	4883.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	5725.0	0.0	5725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.2
10°-20°	184.7	3.2
20°-30°	321.6	5.6
30°-40°	579.7	10.1
40°-50°	1149.8	20.1
50°-60°	1566.2	27.4
60°-70°	1250.1	21.8
70°-80°	565.7	9.9
80°-90°	40.7	0.7
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°	5725.0	100.0
0°-180°	5725.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945622

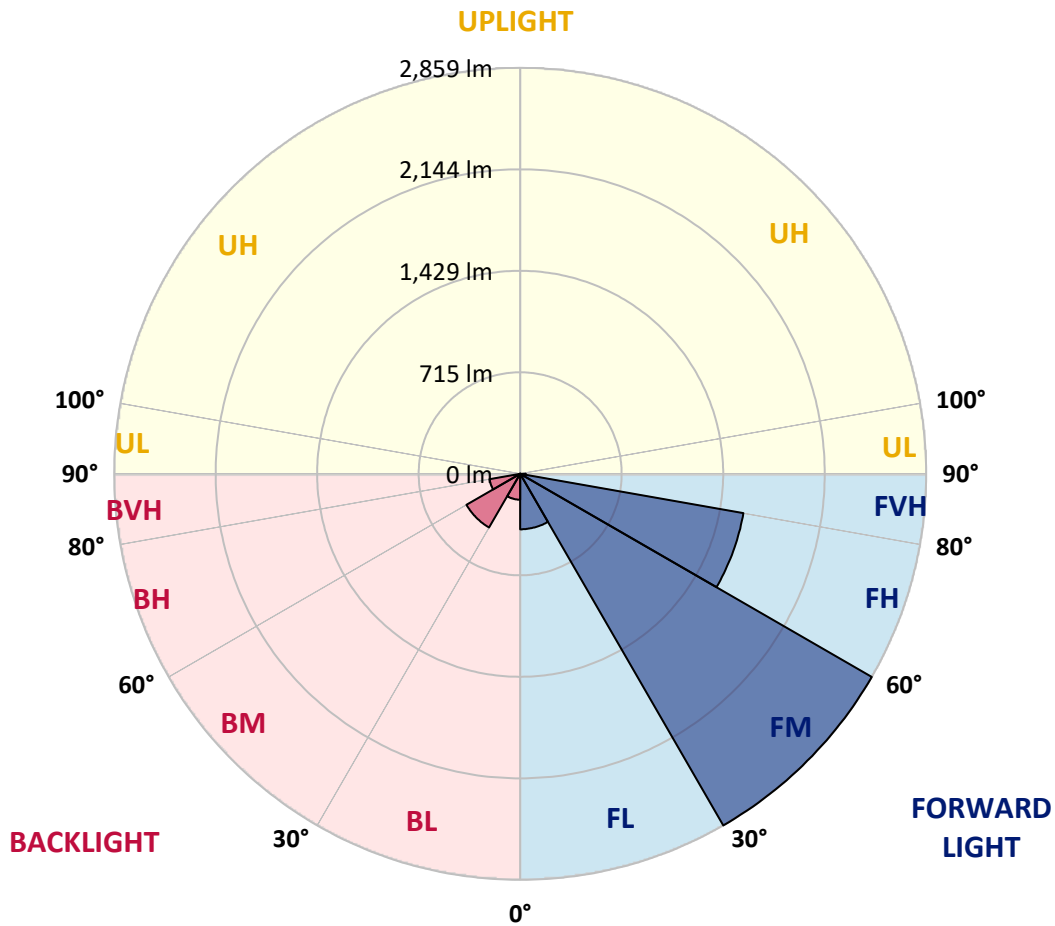
CATALOG NUMBER: GALN-SB1C-735-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.8	6.8			
FM (30°-60°)	2858.9	49.9			
FH (60°-80°)	1596.1	27.9			G1/1800
FVH (80°-90°)	37.6	0.7			G1/100
BL (0°-30°)	182.1	3.2	B1/500		
BM (30°-60°)	436.7	7.6	B1/1000		
BH (60°-80°)	219.7	3.8	B1/500		G1/500
BVH (80°-90°)	3.0	0.1			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 II Short



REPORT NUMBER: P945622

CATALOG NUMBER: GALN-SB1C-735-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6
2.5°	723.1	721.1	723.9	722.7	721.9	720.4	719.6	718.8	717.2	716.0
5°	725.1	723.9	726.7	729.0	731.4	733.7	734.9	736.5	734.9	731.8
7.5°	708.5	707.8	713.7	720.8	731.4	740.4	750.3	755.8	756.2	755.0
10°	707.4	705.4	711.3	720.0	733.7	749.9	767.2	779.0	780.6	785.7
12.5°	725.9	723.9	732.2	741.6	755.8	772.7	794.0	810.6	812.9	820.0
15°	757.0	754.2	763.7	775.9	794.0	813.3	835.8	850.7	852.7	861.4
17.5°	793.2	790.5	801.5	814.5	834.2	860.6	886.6	903.1	905.5	911.0
20°	839.7	836.2	844.8	856.6	877.5	909.0	940.1	963.8	963.4	963.4
22.5°	893.7	888.1	895.6	905.1	924.8	963.0	1004.3	1032.3	1032.3	1021.3
25°	951.6	946.0	954.3	963.0	980.3	1023.6	1072.1	1106.7	1108.3	1089.4
27.5°	1024.0	1016.9	1023.2	1033.5	1043.7	1087.8	1145.3	1185.5	1186.3	1157.1
30°	1163.4	1143.4	1123.7	1112.6	1117.4	1161.1	1222.5	1267.0	1271.0	1230.8
32.5°	1418.7	1414.7	1345.4	1254.8	1207.6	1239.9	1308.8	1362.3	1364.7	1313.1
35°	1815.3	1810.5	1699.1	1526.6	1372.6	1345.4	1413.5	1477.0	1475.4	1417.1
37.5°	2288.7	2284.4	2137.4	1906.6	1657.3	1504.9	1548.6	1615.2	1625.0	1548.6
40°	2693.2	2677.0	2584.1	2361.5	2035.4	1769.6	1740.8	1784.9	1795.2	1704.6
42.5°	2999.6	2985.8	2938.5	2799.5	2493.1	2161.1	1967.3	1984.2	1995.7	1887.0
45°	3158.3	3155.2	3174.1	3161.1	2959.4	2641.6	2291.0	2220.5	2224.9	2089.0
47.5°	3180.8	3179.2	3265.4	3387.5	3360.4	3183.5	2706.6	2515.1	2499.8	2317.0
50°	3048.4	3045.3	3210.7	3439.5	3628.2	3638.8	3178.4	2847.2	2813.3	2553.0
52.5°	2625.8	2625.0	2896.8	3277.6	3722.3	4037.4	3644.7	3211.9	3155.2	2802.7
55°	2020.5	2035.0	2346.6	2796.8	3550.6	4229.2	4063.4	3616.8	3529.7	3053.9
57.5°	1431.3	1452.5	1760.5	2161.5	3018.1	4115.8	4346.6	4022.4	3928.7	3304.4
60°	768.8	787.7	1096.1	1574.6	2245.4	3692.8	4495.8	4374.5	4285.9	3542.3
62.5°	458.1	464.4	592.0	1016.5	1518.7	2821.2	4432.4	4642.7	4569.9	3742.0
65°	328.9	330.0	394.2	620.7	922.0	1714.1	3987.8	4771.1	4748.7	3892.5
67.5°	276.9	276.1	302.9	412.4	628.2	858.6	3056.3	4589.6	4684.9	3987.8
70°	237.5	238.7	270.2	302.1	472.2	486.0	1519.5	3996.0	4199.3	4013.0
72.5°	176.8	180.8	209.9	275.3	356.4	334.4	524.6	2963.0	3330.4	3781.0
75°	124.9	126.8	147.7	231.6	265.9	243.4	267.8	1531.7	2002.7	2898.8
77.5°	96.1	99.6	111.9	161.9	261.9	170.9	163.8	530.1	814.5	1751.1
80°	52.0	58.3	80.7	117.0	183.9	120.9	81.1	211.1	276.1	818.8
82.5°	26.8	29.9	56.3	84.3	104.8	105.6	40.2	87.8	113.8	252.9
85°	10.6	13.0	37.8	46.5	54.0	52.0	18.1	35.4	41.0	70.1
87.5°	2.4	3.9	13.8	10.6	10.2	11.0	4.3	8.3	7.9	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945622
 CATALOG NUMBER: GALN-SB1C-735-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
706.6	0°	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6
711.3	2.5°	710.9	709.3	705.0	700.3	694.8	691.6	689.6	689.2	686.5	684.5
727.1	5°	722.7	721.1	712.9	703.0	692.4	684.1	676.2	669.2	658.9	656.9
749.9	7.5°	746.4	742.0	728.6	715.2	695.2	671.1	642.0	608.5	578.6	569.5
780.2	10°	775.5	769.6	752.7	729.0	684.5	619.1	548.6	483.3	431.3	416.7
816.1	12.5°	808.6	803.5	781.0	737.3	640.0	521.5	413.5	332.4	282.0	269.4
854.3	15°	848.0	840.5	809.4	724.7	560.5	396.2	284.0	235.9	217.8	215.4
898.0	17.5°	889.7	877.5	834.6	679.4	453.3	281.6	219.4	205.6	197.7	195.4
942.1	20°	927.9	912.2	849.5	610.9	338.7	219.4	196.5	187.5	180.4	177.6
986.2	22.5°	966.1	943.7	849.5	517.5	254.0	194.6	180.4	172.1	163.8	160.3
1033.5	25°	1005.9	976.0	834.6	413.5	204.4	178.4	165.0	156.0	148.9	144.5
1078.4	27.5°	1044.5	1003.1	800.3	315.1	182.0	164.2	150.8	142.2	135.5	132.3
1127.2	30°	1081.1	1029.9	752.3	239.1	167.4	150.5	137.8	130.4	123.7	120.5
1190.6	32.5°	1130.8	1063.8	701.1	196.1	154.8	137.5	126.0	118.9	113.0	110.7
1272.9	35°	1199.7	1113.8	656.9	192.6	144.2	126.8	115.4	108.7	102.8	100.8
1379.3	37.5°	1297.4	1194.6	633.7	216.2	135.5	117.4	106.7	99.6	94.1	92.6
1514.4	40°	1417.9	1304.0	646.3	239.9	129.6	109.1	98.9	91.8	87.0	85.1
1669.5	42.5°	1560.8	1439.1	716.0	258.0	125.6	102.0	91.4	83.5	80.3	79.6
1845.6	45°	1725.1	1587.6	822.8	277.3	119.3	95.3	83.9	78.0	75.6	75.2
2037.0	47.5°	1911.8	1750.7	946.4	301.3	113.0	89.0	78.0	74.0	72.1	71.3
2236.7	50°	2096.9	1914.9	1073.6	314.7	107.9	83.1	73.3	70.1	68.5	68.1
2447.8	52.5°	2290.7	2083.9	1176.4	302.1	103.6	78.4	69.3	67.0	65.4	65.0
2642.4	55°	2475.4	2220.5	1194.2	256.4	94.9	73.7	65.0	63.8	61.8	61.8
2839.7	57.5°	2634.5	2289.1	1068.9	188.3	86.3	66.6	60.7	59.5	57.9	57.5
3017.7	60°	2780.6	2269.4	825.1	126.8	76.8	59.5	55.1	54.4	52.8	50.8
3172.5	62.5°	2862.9	2182.7	564.4	82.7	67.3	52.0	48.8	48.4	44.9	41.0
3287.1	65°	2894.0	2004.7	352.1	60.3	56.3	44.5	42.1	41.4	36.2	31.9
3352.1	67.5°	2866.9	1711.7	177.6	47.7	44.5	37.0	34.7	34.7	31.1	27.2
3348.1	70°	2758.2	1283.2	74.8	38.2	34.3	28.4	28.4	29.9	26.4	22.1
3174.5	72.5°	2522.2	863.3	39.8	29.1	25.6	20.1	23.2	24.4	20.9	16.5
2598.3	75°	2005.1	526.6	27.6	21.7	16.1	14.2	17.7	18.5	14.2	11.0
1781.4	77.5°	1371.4	302.5	18.5	13.8	10.2	8.3	12.2	11.4	7.5	5.1
686.9	80°	602.2	126.0	10.6	6.3	3.9	3.2	4.3	3.2	2.4	1.6
94.1	82.5°	70.5	29.5	3.9	2.4	1.6	0.8	0.4	0.0	0.0	0.0
28.8	85°	14.6	3.5	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	2.8	0.8	0.4	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>
706.6
686.5
656.2
565.2
411.2
265.9
213.1
194.2
176.1
158.3
143.0
132.3
120.9
110.7
100.8
92.2
84.7
79.6
74.8
71.3
68.1
65.0
61.4
57.1
50.4
40.2
31.5
26.8
21.7
16.5
10.6
5.5
1.6
0.0
0.0
0.0
0.0

F REPORT)