

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: P945521

Luminaire Tested: **GALN-SB1B-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3144 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

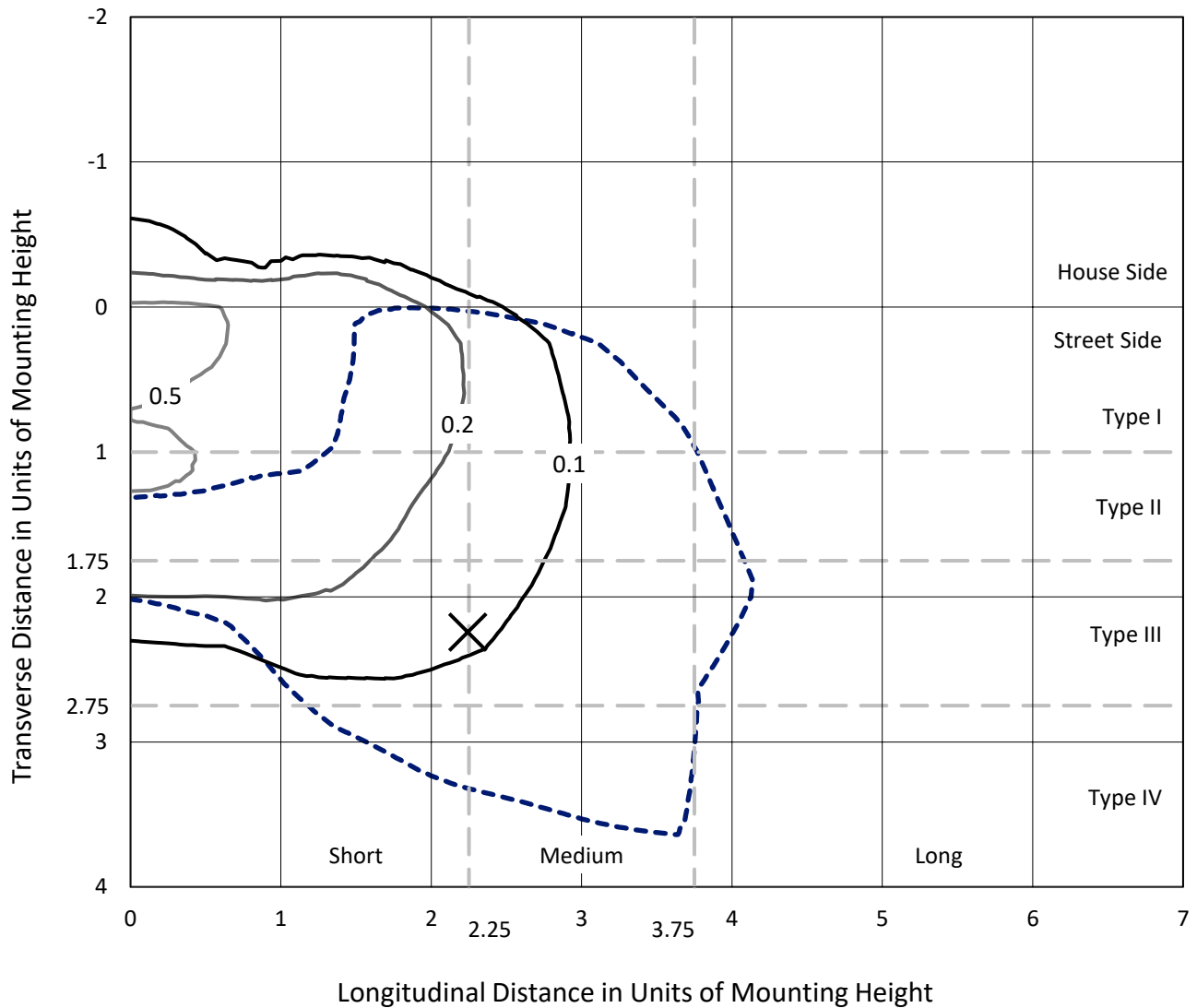
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945521
 CATALOG NUMBER: GALN-SB1B-940-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

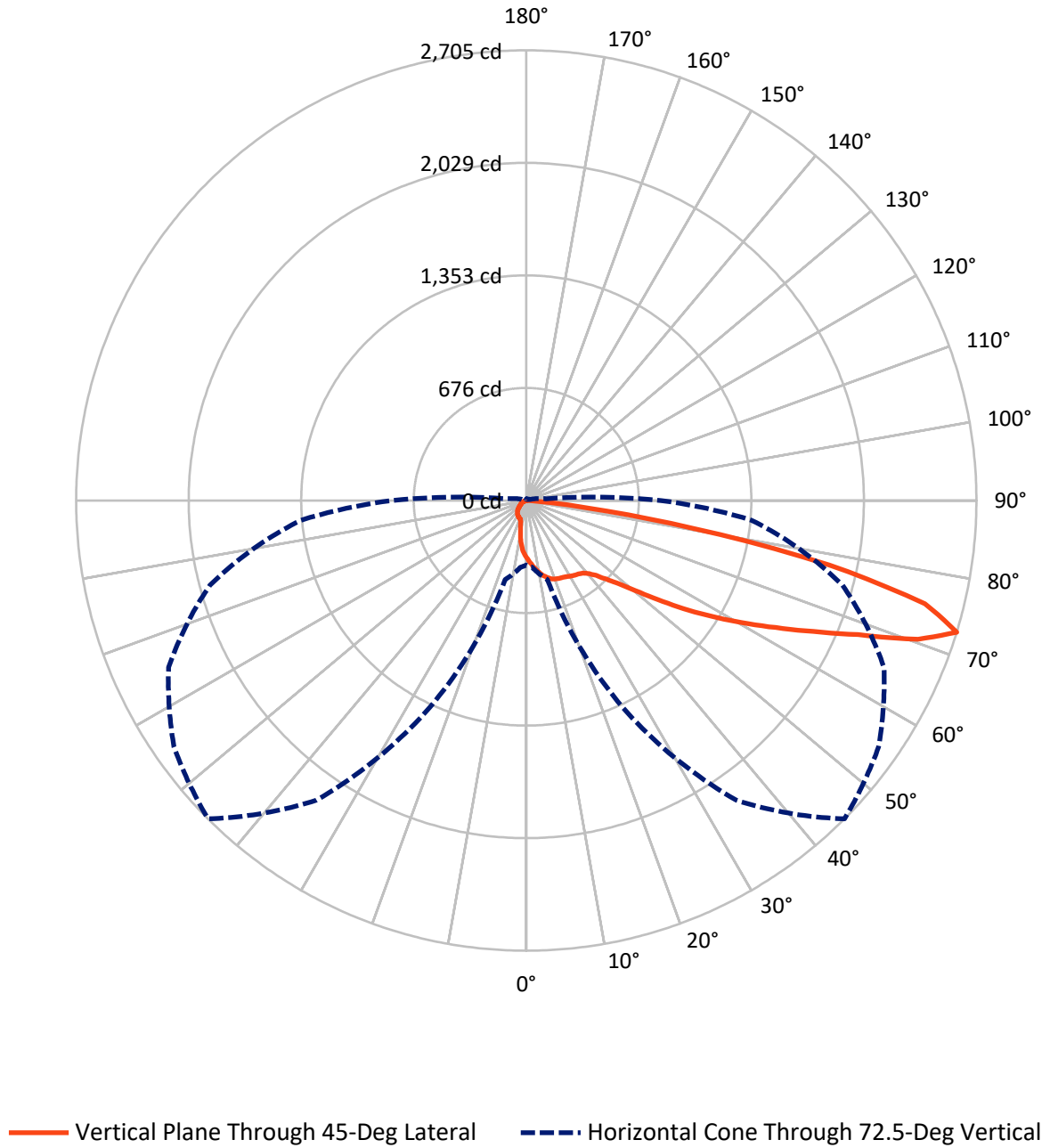
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P945521
CATALOG NUMBER: GALN-SB1B-940-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P945521
 CATALOG NUMBER: GALN-SB1B-940-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.3	0.0	330.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2813.7	0.0	2813.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	3144.0	0.0	3144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.0
10°-20°	94.8	3.0
20°-30°	155.8	5.0
30°-40°	220.9	7.0
40°-50°	365.1	11.6
50°-60°	655.9	20.9
60°-70°	910.7	29.0
70°-80°	660.6	21.0
80°-90°	47.8	1.5
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°	3144.0	100.0
0°-180°	3144.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945521

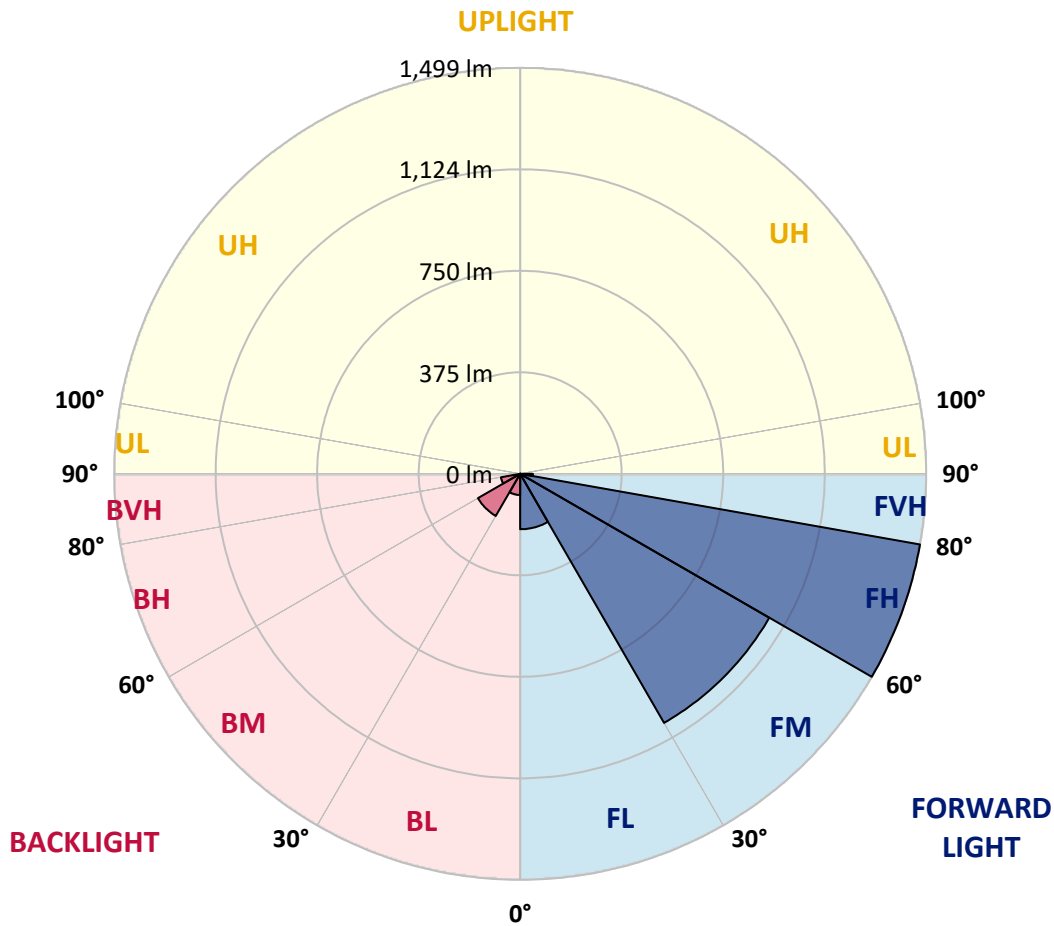
CATALOG NUMBER: GALN-SB1B-940-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.8	6.5			
FM (30°-60°)	1062.2	33.8			
FH (60°-80°)	1499.3	47.7			G1/1800
FVH (80°-90°)	47.4	1.5			G1/100
BL (0°-30°)	78.2	2.5	B0/110		
BM (30°-60°)	179.7	5.7	B0/220		
BH (60°-80°)	72.0	2.3	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



REPORT NUMBER: P945521

CATALOG NUMBER: GALN-SB1B-940-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4
2.5°	376.2	376.8	376.4	373.8	369.5	367.2	365.9	361.6	358.8	353.9
5°	410.7	413.3	411.8	406.7	398.5	392.7	391.0	382.2	374.3	365.0
7.5°	447.4	448.7	445.9	439.3	428.3	418.5	417.0	404.7	392.1	377.9
10°	479.2	480.7	476.4	466.8	454.3	442.1	439.9	426.4	411.4	394.0
12.5°	505.8	507.3	501.7	490.1	476.4	463.7	461.6	447.4	430.9	411.6
15°	526.0	528.8	521.3	508.8	494.0	481.3	480.3	466.3	450.2	428.8
17.5°	537.8	540.6	533.5	518.5	505.8	495.1	493.8	482.2	467.2	446.6
20°	539.7	542.3	534.8	521.7	511.2	502.6	501.9	493.6	482.6	462.9
22.5°	533.9	537.1	530.3	519.8	512.5	508.0	507.1	502.4	496.2	479.4
25°	527.9	530.5	525.3	516.1	512.2	511.8	512.5	511.6	510.3	496.2
27.5°	527.5	530.3	524.5	515.7	513.5	518.0	518.7	522.8	523.8	511.4
30°	531.1	533.1	527.5	518.3	517.2	527.5	527.7	535.0	536.7	524.3
32.5°	539.1	541.2	535.6	522.1	520.6	535.0	535.6	545.3	548.1	538.0
35°	557.7	560.3	553.9	532.9	527.5	542.1	544.0	555.4	561.0	552.6
37.5°	604.3	596.8	588.0	554.5	543.2	553.2	556.5	569.8	579.6	570.0
40°	720.0	696.4	668.9	591.4	570.6	577.1	579.6	592.9	606.5	597.0
42.5°	893.6	865.7	821.5	676.4	612.0	615.3	617.2	628.8	647.9	640.4
45°	1048.3	1038.2	993.2	821.5	689.5	673.6	676.0	682.0	710.1	707.3
47.5°	1167.2	1161.4	1126.6	988.0	820.4	745.1	751.7	754.5	795.1	805.0
50°	1258.6	1256.5	1225.4	1136.1	991.4	850.5	852.8	846.8	907.5	932.0
52.5°	1344.9	1352.2	1329.2	1273.6	1174.1	988.4	988.0	959.7	1041.7	1078.6
55°	1422.8	1425.4	1427.7	1414.0	1357.8	1145.5	1141.5	1095.1	1197.2	1235.4
57.5°	1496.0	1497.0	1518.1	1546.2	1549.0	1314.2	1306.7	1251.1	1367.2	1394.5
60°	1545.1	1550.1	1594.5	1672.6	1706.7	1488.2	1484.2	1427.5	1540.2	1552.8
62.5°	1474.3	1504.3	1616.4	1771.3	1855.6	1681.2	1679.2	1626.0	1722.2	1711.9
65°	1193.4	1244.2	1441.2	1838.0	2001.8	1896.6	1899.4	1842.8	1909.1	1875.6
67.5°	834.8	888.4	1121.5	1843.4	2165.1	2149.6	2165.7	2076.9	2107.6	2032.5
70°	577.3	605.0	756.7	1728.0	2292.3	2498.2	2497.7	2364.5	2305.0	2103.9
72.5°	388.2	402.6	491.4	1370.9	2198.8	2705.2	2692.8	2584.2	2371.5	1967.7
75°	163.7	174.3	227.5	770.4	1739.5	2475.0	2441.3	2283.8	2107.2	1549.4
77.5°	51.9	56.4	89.7	275.8	958.2	1860.4	1824.7	1426.2	1412.3	777.3
80°	24.7	28.8	50.4	110.7	377.1	1011.8	1006.9	647.0	607.5	209.9
82.5°	10.7	12.7	27.9	59.2	168.7	361.0	368.3	220.2	182.2	79.6
85°	3.4	4.5	12.9	27.3	71.2	89.7	88.6	52.4	73.4	43.3
87.5°	0.0	0.0	4.3	6.2	7.3	5.2	5.8	4.5	20.4	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945521
 CATALOG NUMBER: GALN-SB1B-940-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
344.4	0°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4
348.7	2.5°	346.1	342.7	336.7	331.1	326.2	321.3	318.3	314.0	313.5	313.5
354.3	5°	348.5	342.9	332.2	320.8	307.7	295.3	282.8	270.8	267.0	264.2
363.3	7.5°	355.4	346.6	329.6	308.0	283.1	255.8	236.7	216.1	208.2	203.9
375.3	10°	365.2	353.2	327.5	289.5	249.1	212.0	184.8	162.5	153.9	150.2
388.4	12.5°	376.2	361.4	323.6	266.5	212.0	167.6	141.0	130.7	129.4	129.4
404.1	15°	389.3	371.3	317.0	239.5	173.2	132.6	123.2	123.6	124.9	125.8
419.3	17.5°	402.8	381.8	306.4	209.2	138.8	119.3	119.5	120.2	121.2	122.1
435.9	20°	417.4	392.3	292.5	177.0	119.1	115.5	116.1	116.7	117.6	118.0
451.3	22.5°	433.1	402.2	276.0	145.5	112.5	112.2	112.5	113.1	114.2	114.2
469.3	25°	449.8	413.1	257.1	122.5	109.0	109.0	109.4	109.9	110.7	110.7
486.7	27.5°	467.0	423.2	237.1	110.5	106.0	105.8	105.8	106.4	106.9	107.1
503.9	30°	485.9	435.0	217.2	107.9	103.7	102.6	101.9	102.4	102.8	103.0
521.9	32.5°	505.2	446.4	199.4	109.0	101.3	99.4	97.2	96.8	96.8	97.6
540.6	35°	526.6	458.8	185.6	112.7	100.0	94.6	91.2	89.3	89.5	90.8
562.9	37.5°	552.4	473.8	175.5	115.9	99.1	89.3	83.7	81.3	79.8	81.3
593.6	40°	586.1	495.9	168.2	118.5	98.1	83.0	75.5	71.7	68.9	69.7
641.2	42.5°	635.6	530.7	165.5	118.7	95.7	75.8	67.2	62.0	57.9	58.2
712.9	45°	705.2	585.6	179.8	115.9	90.6	67.8	58.4	51.5	48.9	48.3
820.0	47.5°	800.5	665.7	213.1	110.1	83.0	60.1	49.8	44.0	42.1	41.0
960.5	50°	928.1	768.5	250.0	103.7	75.5	52.8	42.7	39.1	37.8	36.7
1127.3	52.5°	1076.2	872.8	280.3	97.2	68.0	46.4	38.2	36.1	35.0	34.1
1288.2	55°	1212.1	944.7	278.5	90.3	60.7	41.2	35.0	33.7	32.4	31.5
1426.9	57.5°	1296.6	954.8	229.6	82.8	52.4	37.1	32.0	31.1	29.6	28.5
1546.8	60°	1335.5	897.2	160.9	73.0	44.0	33.3	28.8	28.3	26.4	24.9
1660.4	62.5°	1342.5	790.4	107.3	60.7	36.7	29.6	25.5	24.9	22.3	19.7
1752.6	65°	1313.8	637.6	74.3	47.4	31.3	25.8	21.9	20.6	17.8	15.2
1774.5	67.5°	1222.8	447.7	51.7	34.1	26.6	20.4	17.4	17.0	14.8	12.7
1662.9	70°	1056.0	255.2	34.6	25.5	21.0	13.9	13.7	14.2	12.0	10.3
1358.6	72.5°	809.7	116.7	21.5	18.7	14.4	9.4	10.9	11.2	9.2	7.7
847.7	75°	476.6	50.0	13.5	12.0	7.3	6.2	7.9	8.2	6.2	4.9
309.9	77.5°	162.2	18.9	8.6	7.1	3.6	3.4	5.2	5.2	3.4	1.9
62.2	80°	36.9	7.1	4.3	2.8	1.7	1.5	1.7	1.5	0.9	0.2
19.1	82.5°	10.5	2.8	1.7	1.1	0.6	0.6	0.2	0.0	0.0	0.0
6.7	85°	3.0	1.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
2.4	87.5°	1.3	0.2	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>
344.4
314.6
265.5
204.5
150.2
129.4
125.8
122.1
118.2
114.6
110.9
107.3
103.4
98.3
91.4
80.9
69.3
57.3
47.4
40.3
36.5
33.9
31.1
28.3
24.5
18.5
14.4
12.0
9.4
6.9
4.3
1.5
0.0
0.0
0.0
0.0
0.0

F REPORT)