

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: P944984

Luminaire Tested: **GALN-SB1A-827-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

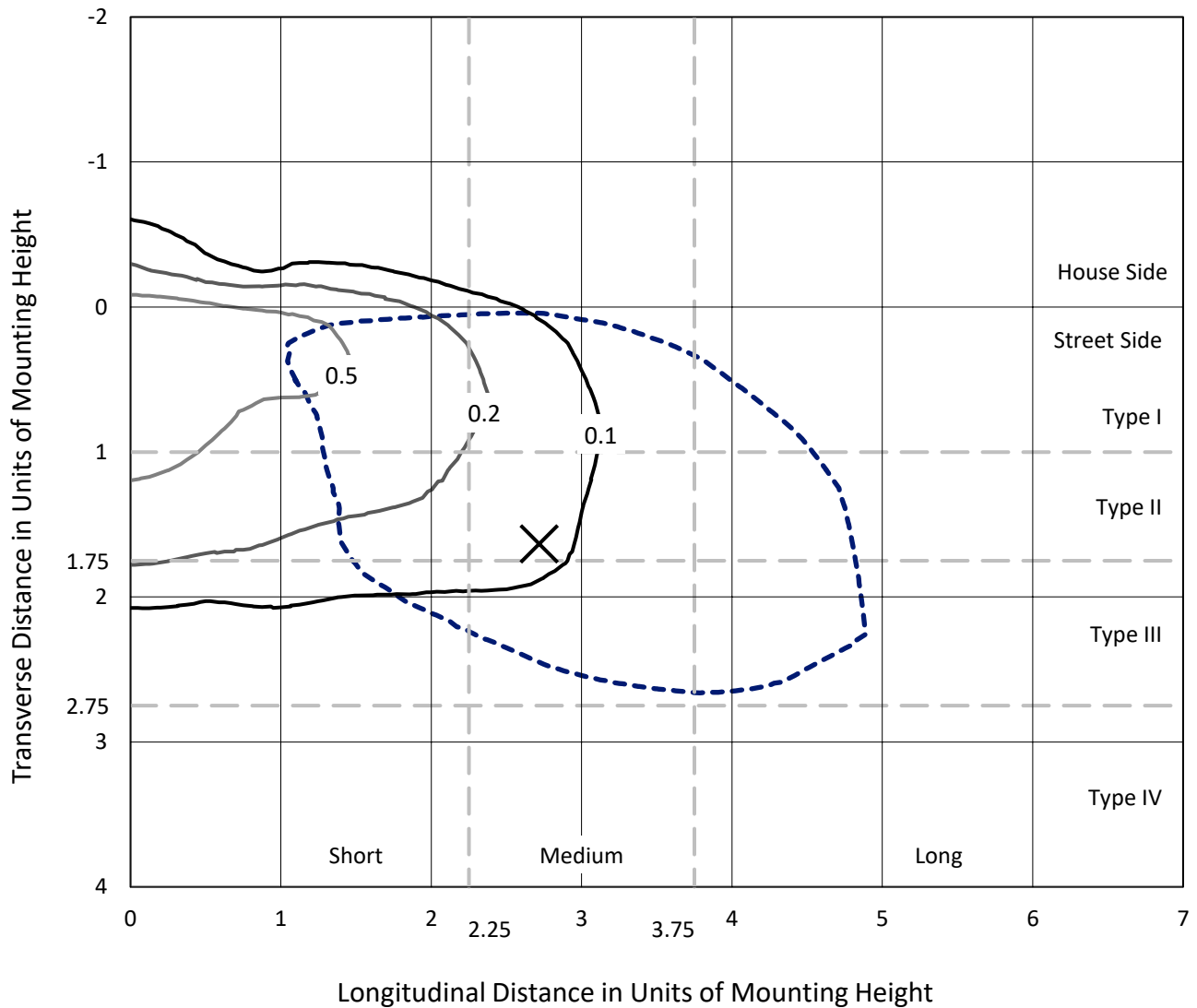
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944984
 CATALOG NUMBER: GALN-SB1A-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

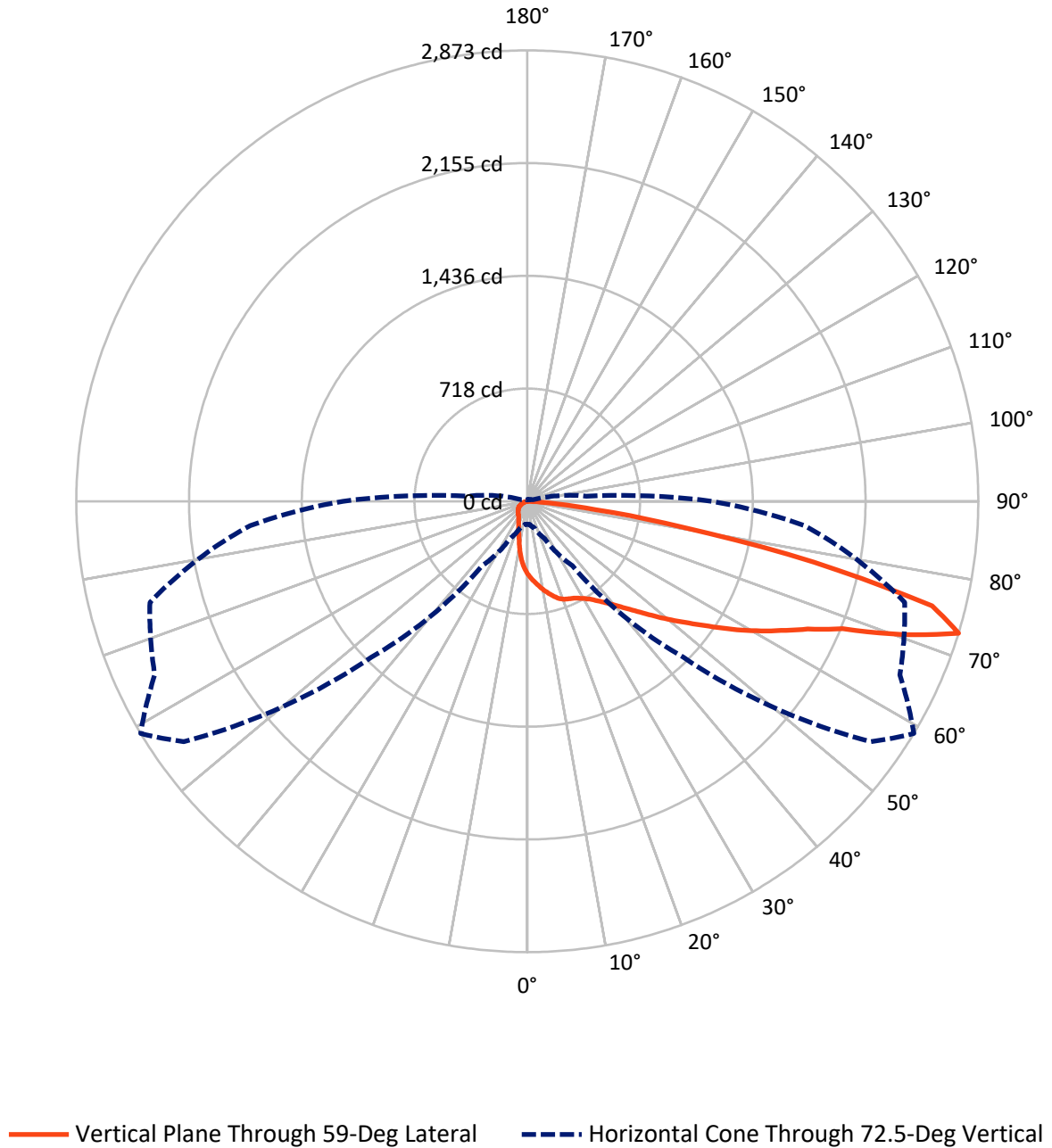
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P944984
CATALOG NUMBER: GALN-SB1A-827-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944984

CATALOG NUMBER: GALN-SB1A-827-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	331.9	0.0	331.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2810.1	0.0	2810.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	3142.0	0.0	3142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.3
10°-20°	111.7	3.6
20°-30°	177.0	5.6
30°-40°	284.0	9.0
40°-50°	453.6	14.4
50°-60°	656.7	20.9
60°-70°	779.4	24.8
70°-80°	578.6	18.4
80°-90°	59.2	1.9
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°	3142.0	100.0
0°-180°	3142.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944984

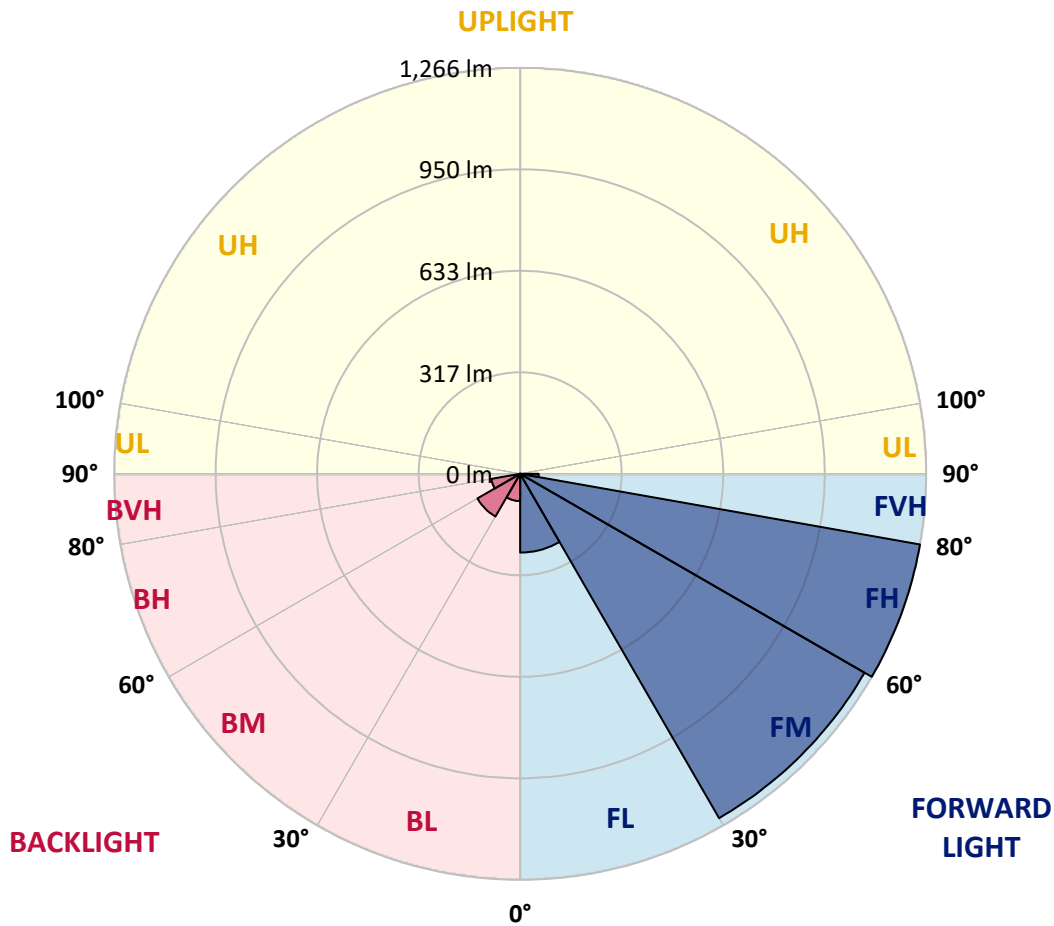
CATALOG NUMBER: GALN-SB1A-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.6	7.8			
FM (30°-60°)	1240.4	39.5			
FH (60°-80°)	1266.4	40.3			G1/1800
FVH (80°-90°)	57.7	1.8			G1/100
BL (0°-30°)	85.0	2.7	B0/110		
BM (30°-60°)	153.9	4.9	B0/220		
BH (60°-80°)	91.5	2.9	B0/110		G0/110
BVH (80°-90°)	1.5	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 III Medium



REPORT NUMBER: P944984

CATALOG NUMBER: GALN-SB1A-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
2.5°	515.5	512.6	513.0	508.1	504.6	500.9	493.8	492.7	487.6	478.6
5°	560.4	558.6	556.9	551.4	544.2	535.2	523.1	518.8	509.3	493.8
7.5°	593.2	591.0	591.8	586.3	580.5	570.5	553.9	545.9	533.3	509.6
10°	599.6	598.4	603.7	605.8	605.8	599.4	583.2	575.2	556.9	526.6
12.5°	563.9	564.1	577.5	593.5	614.4	620.3	609.5	600.8	582.8	544.6
15°	522.3	522.5	535.4	555.9	590.2	624.4	633.0	627.5	608.8	564.1
17.5°	497.2	496.2	504.8	521.7	557.6	605.8	647.4	651.1	635.9	585.7
20°	493.8	491.9	496.4	504.8	530.5	582.4	649.0	666.5	663.8	610.1
22.5°	515.1	512.2	509.8	510.2	521.0	562.9	644.9	675.1	692.5	639.4
25°	557.3	552.8	544.8	534.6	532.3	558.8	642.1	684.5	719.2	676.9
27.5°	609.0	602.7	587.3	571.9	558.8	570.3	648.0	699.5	749.4	720.6
30°	665.9	658.1	642.7	613.6	592.6	595.9	662.2	719.2	787.9	770.1
32.5°	749.4	731.3	704.4	659.9	632.2	623.6	683.5	744.2	835.7	835.9
35°	820.9	810.9	783.8	728.4	671.6	660.3	711.6	779.5	902.0	923.1
37.5°	867.9	854.2	830.4	788.7	732.7	698.1	749.1	822.8	972.1	1022.4
40°	920.4	906.9	875.3	836.1	803.7	762.9	796.5	872.6	1049.1	1124.3
42.5°	983.8	966.2	928.8	886.6	852.7	848.2	858.5	934.8	1128.0	1235.1
45°	1058.3	1041.7	998.8	945.5	915.7	907.7	936.4	1007.2	1216.0	1356.5
47.5°	1128.0	1108.7	1062.6	1014.0	980.9	955.7	1019.3	1092.7	1315.7	1483.5
50°	1187.3	1167.6	1125.4	1073.5	1051.1	1018.1	1100.7	1188.1	1414.6	1612.6
52.5°	1227.9	1210.5	1160.8	1125.6	1110.4	1093.8	1196.1	1289.3	1513.1	1730.7
55°	1218.7	1203.1	1159.4	1157.0	1155.9	1173.4	1310.2	1403.9	1613.4	1842.5
57.5°	1189.4	1171.7	1117.2	1154.7	1191.0	1244.3	1433.7	1539.5	1723.3	1947.9
60°	1103.0	1096.8	1063.6	1150.4	1205.8	1313.9	1574.8	1675.7	1842.3	2040.7
62.5°	920.2	925.6	925.4	1159.4	1232.4	1393.1	1703.0	1813.6	1958.6	2129.9
65°	689.0	707.5	731.1	1078.2	1268.1	1534.4	1856.3	1963.1	2076.8	2233.7
67.5°	463.0	477.8	493.8	884.5	1161.9	1682.9	2110.8	2168.1	2218.3	2348.8
70°	265.0	269.8	292.1	552.4	895.6	1641.9	2525.4	2546.1	2429.4	2490.5
72.5°	148.5	146.9	176.4	262.2	500.5	1406.0	2670.6	2872.7	2618.3	2488.3
75°	99.3	99.5	121.4	165.3	195.1	984.2	2301.4	2663.7	2505.1	2206.4
77.5°	67.7	70.0	89.2	127.8	90.3	480.2	1522.5	1865.9	2028.2	1703.8
80°	29.3	29.5	58.9	91.7	60.9	152.8	789.4	999.6	1272.0	956.7
82.5°	15.2	17.2	37.5	59.3	38.4	53.5	372.9	436.7	533.8	280.8
85°	5.3	6.4	23.2	29.1	19.3	19.1	129.8	132.3	113.0	42.3
87.5°	0.0	1.0	9.0	7.2	2.5	2.3	15.4	12.9	10.3	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944984
 CATALOG NUMBER: GALN-SB1A-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
464.6	0°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
469.3	2.5°	465.0	459.5	450.5	439.4	426.5	419.5	409.4	403.3	397.8	398.0
475.7	5°	465.7	456.4	433.4	409.0	382.0	362.1	339.9	324.3	312.4	309.5
482.3	7.5°	467.5	451.9	414.4	373.8	328.6	295.2	264.6	245.3	234.5	231.6
489.0	10°	470.0	447.0	392.8	330.7	274.7	234.5	209.0	196.7	191.8	188.1
497.7	12.5°	472.0	441.9	365.8	286.2	226.7	195.3	176.0	165.7	161.4	158.8
507.7	15°	475.5	435.1	336.4	244.7	194.3	168.6	150.4	142.8	141.5	142.0
518.8	17.5°	479.0	428.5	303.6	212.3	170.5	145.2	134.2	132.9	134.6	136.2
531.5	20°	482.9	419.1	270.4	187.9	148.5	129.0	126.2	127.0	127.8	130.7
548.9	22.5°	488.6	407.2	241.2	167.2	130.3	121.2	119.8	120.4	121.0	123.9
571.9	25°	496.8	394.5	217.6	148.1	118.8	114.9	113.4	113.4	114.3	116.9
598.6	27.5°	505.4	376.4	198.6	130.5	112.0	107.9	105.4	105.4	106.5	109.5
632.0	30°	515.1	360.0	183.6	117.3	106.3	100.9	97.6	96.8	98.1	102.0
680.4	32.5°	532.5	349.3	172.9	111.2	101.1	94.6	90.1	87.8	89.0	93.5
748.1	35°	559.0	346.9	165.5	108.1	96.2	88.8	82.5	79.0	80.0	84.7
831.6	37.5°	590.0	352.0	158.4	104.0	91.5	83.3	74.9	70.4	72.0	76.3
927.0	40°	634.5	373.3	152.8	100.9	86.8	76.7	67.3	62.8	65.4	69.1
1026.3	42.5°	688.2	411.3	151.4	98.1	81.0	69.7	60.3	57.0	59.1	62.6
1126.6	45°	754.9	459.7	158.0	94.4	74.7	63.0	54.8	52.9	53.5	57.0
1221.4	47.5°	826.5	509.3	176.0	91.1	69.1	57.4	50.5	48.8	48.4	51.7
1307.9	50°	898.9	553.4	197.3	88.6	65.2	52.9	47.2	45.1	44.1	46.2
1393.5	52.5°	970.5	588.5	211.3	84.5	61.3	48.4	44.3	41.2	39.4	40.4
1478.6	55°	1043.1	619.3	212.1	78.4	57.6	45.5	41.4	37.9	35.7	35.7
1560.7	57.5°	1111.0	646.4	200.0	70.2	52.5	42.9	37.5	34.7	32.2	31.4
1633.5	60°	1171.1	666.5	179.9	60.9	48.0	39.4	33.6	31.4	28.3	26.7
1698.3	62.5°	1224.6	676.3	152.4	51.5	42.5	35.3	29.9	27.5	23.4	21.3
1764.1	65°	1270.0	666.3	123.7	42.7	37.7	30.8	25.6	23.2	18.7	16.2
1838.2	67.5°	1314.9	620.3	93.5	35.9	32.8	25.8	21.1	18.9	15.6	13.5
1892.1	70°	1320.6	523.7	65.4	30.2	27.3	19.9	17.0	15.6	12.7	10.9
1771.7	72.5°	1175.6	376.8	39.8	24.6	21.3	14.2	13.5	12.3	9.4	8.2
1447.6	75°	939.7	231.0	23.4	18.5	14.2	10.1	10.1	8.8	6.4	5.3
999.4	77.5°	649.5	120.8	13.7	11.9	8.4	5.9	6.6	5.3	3.1	2.5
395.9	80°	260.1	45.9	7.4	5.5	3.9	2.7	2.3	1.2	0.6	0.4
81.2	82.5°	51.9	12.1	2.5	1.4	1.4	0.6	0.0	0.0	0.0	0.0
22.4	85°	13.3	2.7	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0
7.4	87.5°	4.1	0.0	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>
464.6
402.5
313.9
234.5
190.4
160.2
142.6
136.8
131.5
124.7
118.0
110.8
103.0
94.8
86.2
77.5
69.7
63.2
58.7
53.7
47.0
41.2
36.1
31.6
26.3
21.1
16.2
13.5
10.7
8.0
5.3
2.5
0.6
0.0
0.0
0.0
0.0

F REPORT)