

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: P939806

Luminaire Tested: **GALN-SB2C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10214 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

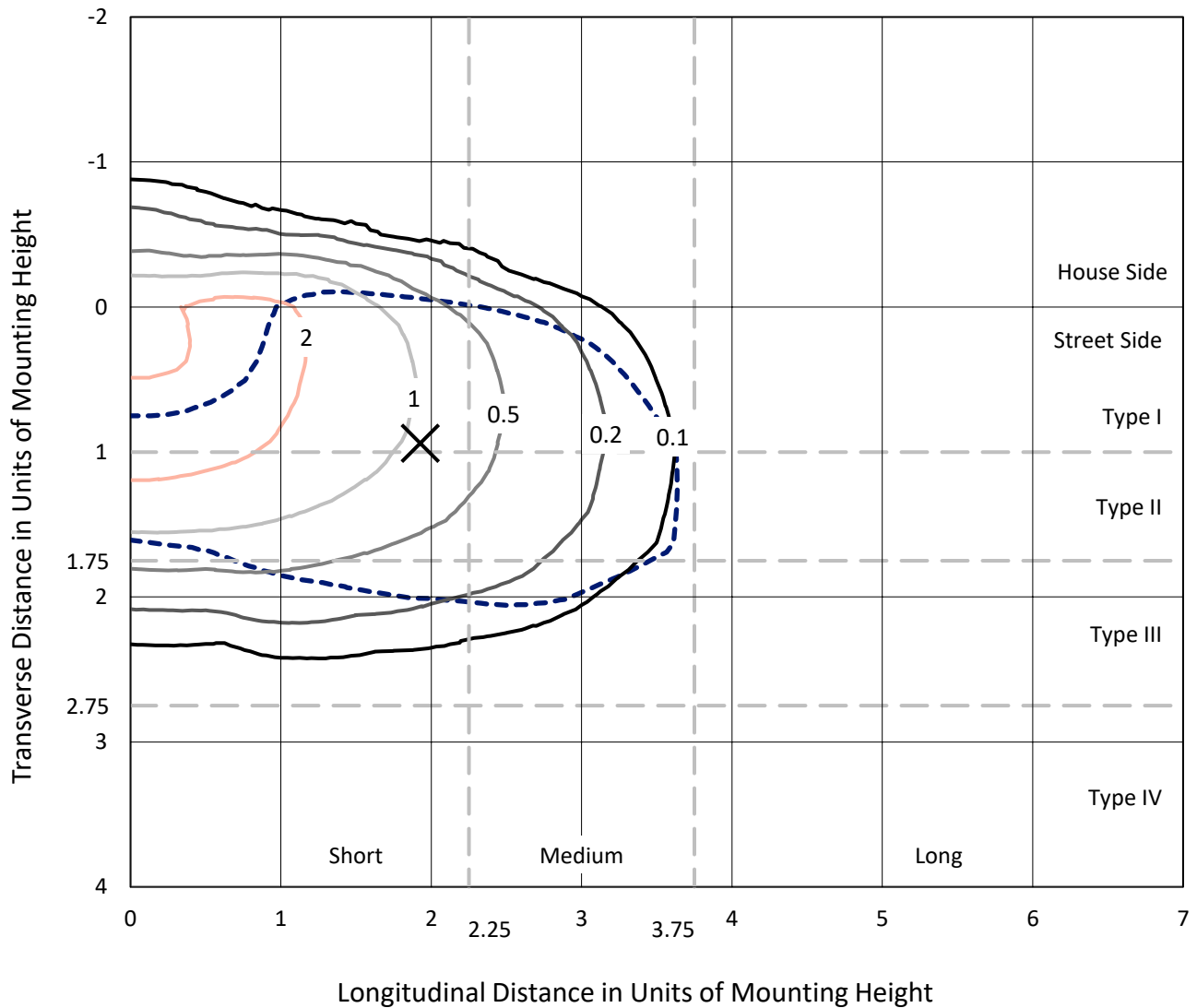
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939806
 CATALOG NUMBER: GALN-SB2C-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

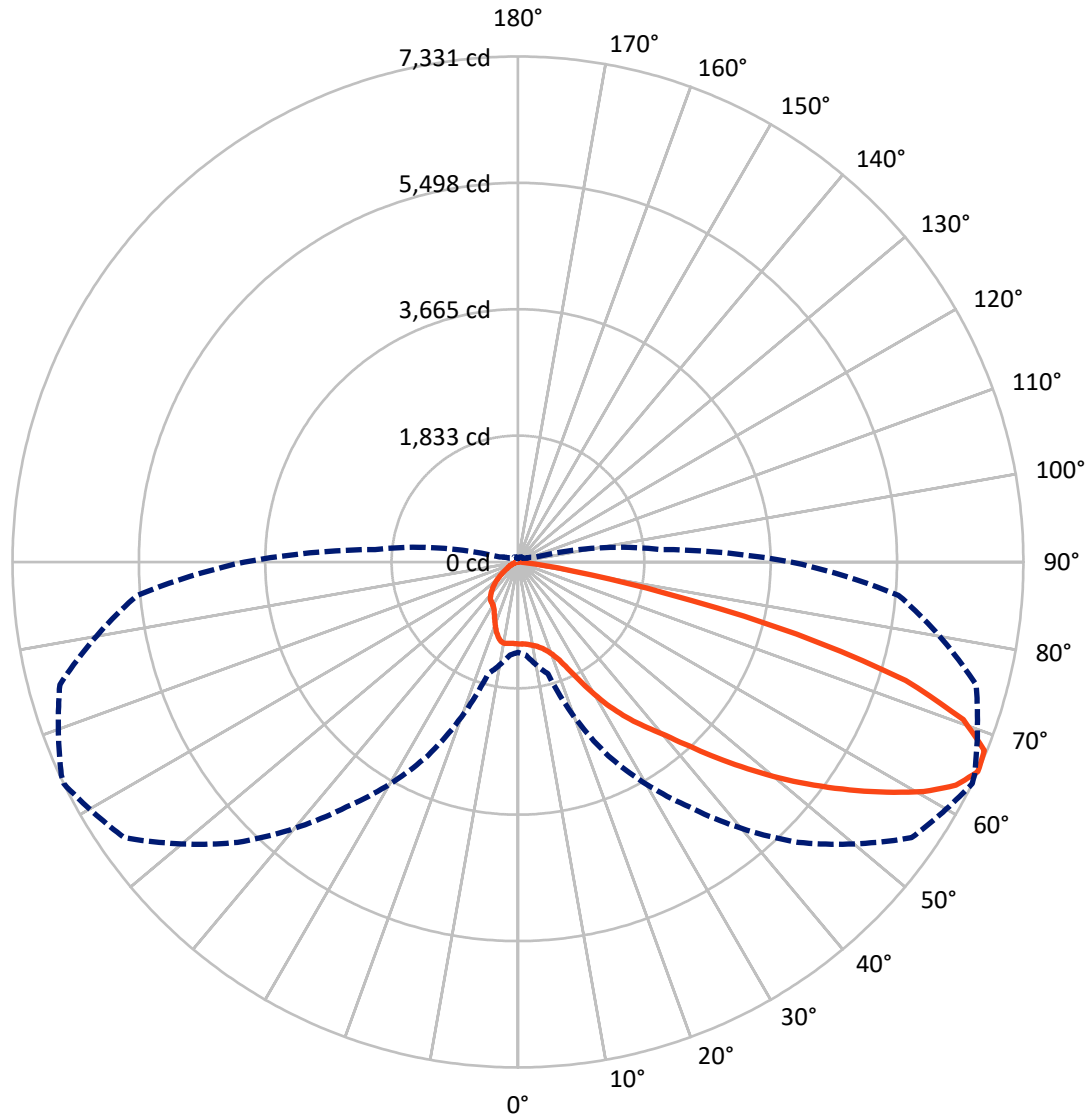
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

REPORT NUMBER: P939806
CATALOG NUMBER: GALN-SB2C-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P939806
 CATALOG NUMBER: GALN-SB2C-827-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1365.9	0.0	1365.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8848.1	0.0	8848.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	10214.0	0.0	10214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.1
10°-20°	297.3	2.9
20°-30°	563.3	5.5
30°-40°	1139.9	11.2
40°-50°	1941.8	19.0
50°-60°	2640.7	25.9
60°-70°	2479.8	24.3
70°-80°	993.5	9.7
80°-90°	48.1	0.5
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°	10214.0	100.0
0°-180°	10214.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939806

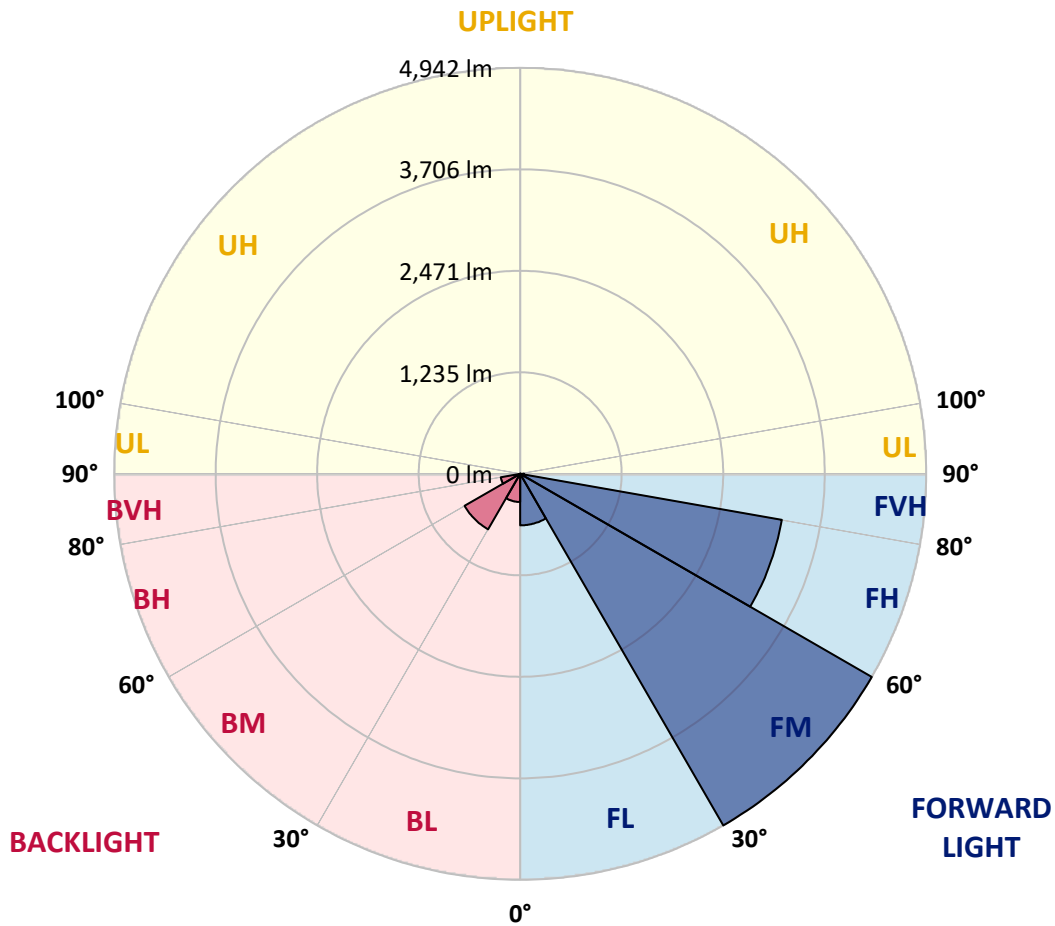
CATALOG NUMBER: GALN-SB2C-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.3	6.1			
FM (30°-60°)	4941.5	48.4			
FH (60°-80°)	3233.5	31.7			G2/5000
FVH (80°-90°)	45.8	0.4			G1/100
BL (0°-30°)	342.9	3.4	B1/500		
BM (30°-60°)	780.9	7.6	B1/1000		
BH (60°-80°)	239.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P939806

CATALOG NUMBER: GALN-SB2C-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1183.9	1192.1	1190.0	1188.0	1187.3	1188.7	1189.4	1188.7	1188.7	1188.7
5°	1161.3	1168.1	1168.1	1172.9	1179.8	1188.0	1194.2	1195.5	1196.9	1198.9
7.5°	1118.2	1123.6	1127.7	1143.5	1160.6	1182.5	1201.0	1210.6	1212.0	1219.5
10°	1088.7	1095.6	1102.4	1118.8	1143.5	1176.4	1207.9	1231.1	1234.6	1252.4
12.5°	1087.3	1094.2	1103.1	1120.9	1149.6	1184.6	1222.9	1256.5	1262.6	1288.6
15°	1101.7	1109.9	1118.2	1140.1	1170.9	1213.3	1254.4	1296.2	1302.3	1339.3
17.5°	1131.2	1142.1	1148.3	1170.2	1203.1	1250.3	1304.4	1352.3	1357.8	1400.9
20°	1189.4	1202.4	1204.4	1222.2	1254.4	1305.1	1369.4	1429.0	1435.9	1485.2
22.5°	1309.9	1328.4	1311.9	1320.8	1349.6	1400.3	1470.1	1545.4	1555.0	1611.2
25°	1522.1	1548.2	1505.7	1490.6	1503.0	1555.7	1643.3	1738.5	1749.5	1794.7
27.5°	1939.1	1905.6	1841.2	1778.2	1741.3	1771.4	1870.0	1987.8	2001.4	2045.3
30°	2397.2	2367.8	2280.8	2141.1	2053.5	2048.7	2139.8	2271.2	2287.0	2328.7
32.5°	2856.0	2827.9	2733.4	2561.5	2409.5	2334.2	2397.2	2543.1	2551.3	2578.0
35°	3307.2	3278.5	3184.0	3008.0	2821.1	2649.9	2637.6	2801.9	2804.6	2832.7
37.5°	3761.2	3737.2	3636.6	3464.0	3279.8	3043.6	2929.2	3047.0	3050.4	3077.8
40°	4085.1	4095.3	4026.2	3892.6	3734.5	3476.3	3256.5	3307.9	3287.4	3333.2
42.5°	4363.1	4383.6	4323.3	4256.2	4164.5	3937.2	3661.9	3653.0	3620.1	3644.8
45°	4603.4	4620.5	4566.4	4550.7	4548.6	4389.1	4104.9	4051.5	4005.6	4000.8
47.5°	4691.7	4724.6	4747.9	4800.6	4903.3	4836.2	4563.0	4480.1	4428.8	4391.1
50°	4725.3	4760.2	4839.6	4993.0	5236.1	5264.8	5019.0	4925.9	4862.9	4794.4
52.5°	4680.1	4742.4	4849.2	5107.3	5460.0	5608.6	5456.6	5375.1	5303.2	5191.6
55°	4413.7	4476.0	4694.5	5106.0	5571.6	5849.6	5870.1	5833.8	5753.0	5577.1
57.5°	3852.3	3944.7	4290.5	4932.1	5569.5	6057.1	6275.5	6301.5	6211.1	5959.1
60°	3074.4	3199.7	3621.5	4546.6	5397.7	6169.4	6630.9	6761.0	6665.1	6335.7
62.5°	2145.2	2290.4	2689.6	3942.6	5004.6	6088.6	6890.4	7130.7	7058.1	6672.6
65°	1308.5	1355.1	1676.9	3102.5	4336.4	5750.3	6970.5	7330.6	7306.7	6878.7
67.5°	871.7	910.7	1003.1	2127.4	3366.1	5074.5	6778.8	7295.7	7302.6	6845.2
70°	525.2	558.7	619.0	1237.3	2181.5	4016.6	6185.1	6850.7	6890.4	6396.7
72.5°	216.4	239.0	293.7	560.8	1129.8	2549.2	4925.2	5881.8	5974.2	5378.5
75°	122.6	134.2	172.6	281.4	490.3	1188.0	2983.3	4175.4	4311.7	3707.1
77.5°	81.5	87.0	111.6	182.1	275.9	405.4	1275.0	2175.4	2435.6	2024.7
80°	54.8	59.6	76.7	121.9	179.4	173.9	406.0	805.9	991.5	695.7
82.5°	37.0	37.7	54.8	80.1	113.7	84.2	119.8	250.6	315.0	201.3
85°	21.2	20.5	40.4	46.6	50.7	34.9	36.3	75.3	98.6	84.9
87.5°	2.7	4.1	15.7	12.3	6.8	7.5	7.5	13.0	19.2	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939806
 CATALOG NUMBER: GALN-SB2C-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1188.0	0°	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
1189.4	2.5°	1189.4	1188.7	1186.6	1184.6	1179.8	1177.0	1178.4	1177.0	1176.4	1177.0
1198.3	5°	1198.3	1196.2	1190.7	1183.9	1174.3	1162.7	1155.1	1144.2	1133.9	1127.7
1222.2	7.5°	1222.2	1220.2	1212.6	1193.5	1162.7	1114.0	1069.5	1030.5	1001.1	983.9
1260.6	10°	1260.6	1257.2	1245.5	1203.1	1122.3	1016.1	927.8	854.5	806.6	784.0
1305.8	12.5°	1305.8	1301.7	1281.1	1194.2	1045.6	879.9	758.0	676.5	632.0	612.1
1357.8	15°	1359.2	1353.7	1313.3	1151.7	934.0	729.2	617.6	556.7	527.9	510.1
1424.2	17.5°	1425.6	1416.0	1337.3	1088.0	812.8	614.2	531.3	485.5	460.1	443.0
1511.2	20°	1511.9	1496.1	1356.4	1012.0	701.2	541.6	473.1	434.8	415.6	400.6
1634.4	22.5°	1632.4	1609.8	1379.7	929.9	622.4	491.6	430.0	401.9	386.2	369.1
1806.3	25°	1781.6	1754.9	1408.5	853.8	568.3	448.5	398.5	375.2	356.7	336.9
2031.6	27.5°	1990.5	1942.6	1442.7	791.5	521.8	411.5	369.8	343.7	322.5	306.1
2287.0	30°	2223.3	2144.6	1472.8	753.9	479.3	377.3	332.1	306.1	286.2	274.6
2516.4	32.5°	2443.8	2337.0	1492.7	737.4	441.0	338.3	291.0	262.9	247.9	244.4
2740.9	35°	2651.9	2510.9	1490.6	721.7	406.7	299.2	250.6	221.9	210.2	212.3
2982.7	37.5°	2891.6	2696.4	1476.3	697.0	378.7	263.6	215.7	190.4	180.1	180.8
3276.4	40°	3170.3	2910.8	1467.4	650.5	347.8	230.8	186.9	166.4	158.9	156.1
3585.9	42.5°	3467.4	3118.2	1468.7	597.8	309.5	201.3	167.1	150.0	143.1	141.1
3930.3	45°	3766.0	3316.1	1470.8	543.0	269.1	178.7	152.7	138.3	134.2	131.5
4279.5	47.5°	4046.7	3484.6	1432.4	484.1	229.4	161.6	141.1	131.5	128.0	124.6
4630.1	50°	4308.3	3596.8	1340.0	415.6	197.9	147.9	132.2	125.3	121.9	118.5
4947.8	52.5°	4511.6	3614.7	1187.3	345.1	176.0	137.6	126.7	120.5	116.4	113.0
5204.6	55°	4602.0	3503.0	970.3	279.4	158.9	128.7	121.2	115.0	110.2	106.8
5406.6	57.5°	4578.7	3268.2	756.6	224.6	142.4	119.8	114.3	110.2	104.8	99.3
5570.2	60°	4464.4	2953.9	570.4	186.9	127.4	110.2	106.8	103.4	95.9	87.6
5633.2	62.5°	4266.5	2558.8	406.7	154.7	110.9	99.3	97.9	95.2	84.2	69.2
5540.1	65°	3963.9	2078.8	273.9	128.7	95.2	87.0	87.6	82.9	68.5	51.4
5199.1	67.5°	3521.5	1520.1	175.3	105.4	79.4	72.6	73.3	70.5	58.2	43.8
4552.7	70°	2958.0	1006.5	114.3	80.1	63.7	56.1	60.3	60.9	49.3	35.6
3494.1	72.5°	2168.5	594.3	80.1	59.6	46.6	39.0	49.3	50.7	39.7	26.7
2102.1	75°	1235.9	282.1	60.3	43.1	28.8	27.4	38.3	38.3	27.4	17.8
910.0	77.5°	519.0	117.8	42.5	28.1	16.4	15.7	26.0	24.0	13.7	8.2
221.9	80°	150.0	52.7	22.6	13.7	6.8	6.2	10.3	7.5	3.4	1.4
84.2	82.5°	58.9	23.3	8.9	5.5	2.7	2.7	1.4	0.0	0.0	0.0
47.9	85°	34.9	9.6	4.1	2.1	0.7	0.0	0.0	0.0	0.0	0.0
10.3	87.5°	8.9	2.1	1.4	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>
1188.0
1179.8
1129.1
984.6
782.0
610.1
510.8
441.6
397.8
366.3
334.8
302.6
272.5
246.5
212.3
183.5
155.4
140.4
131.5
124.6
118.5
112.3
106.1
98.6
86.3
67.8
50.0
41.8
34.2
25.3
16.4
8.2
1.4
0.0
0.0
0.0
0.0

F REPORT)