

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: P945730

Luminaire Tested: **GALN-SB1C-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6911 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

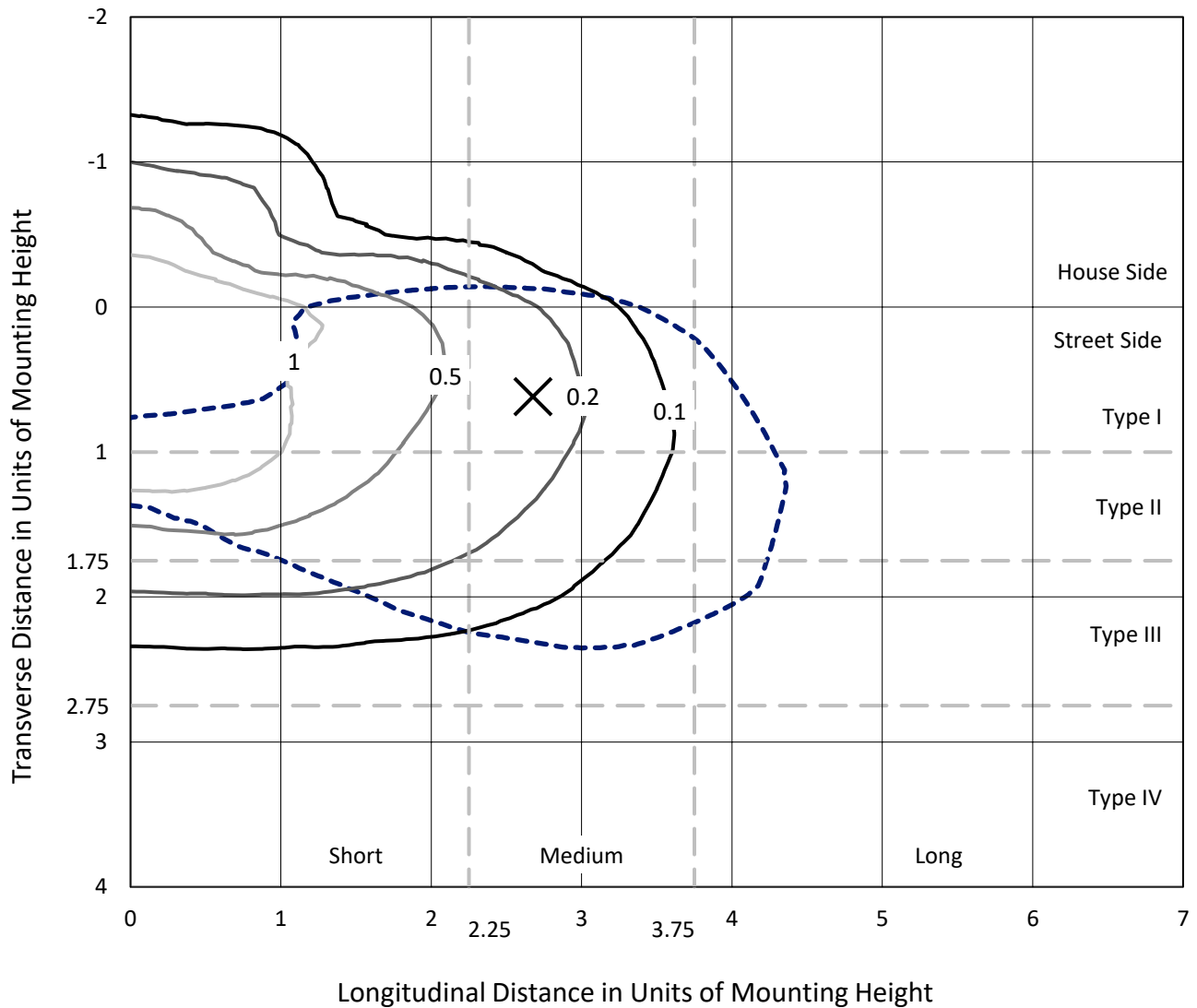
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945730
 CATALOG NUMBER: GALN-SB1C-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

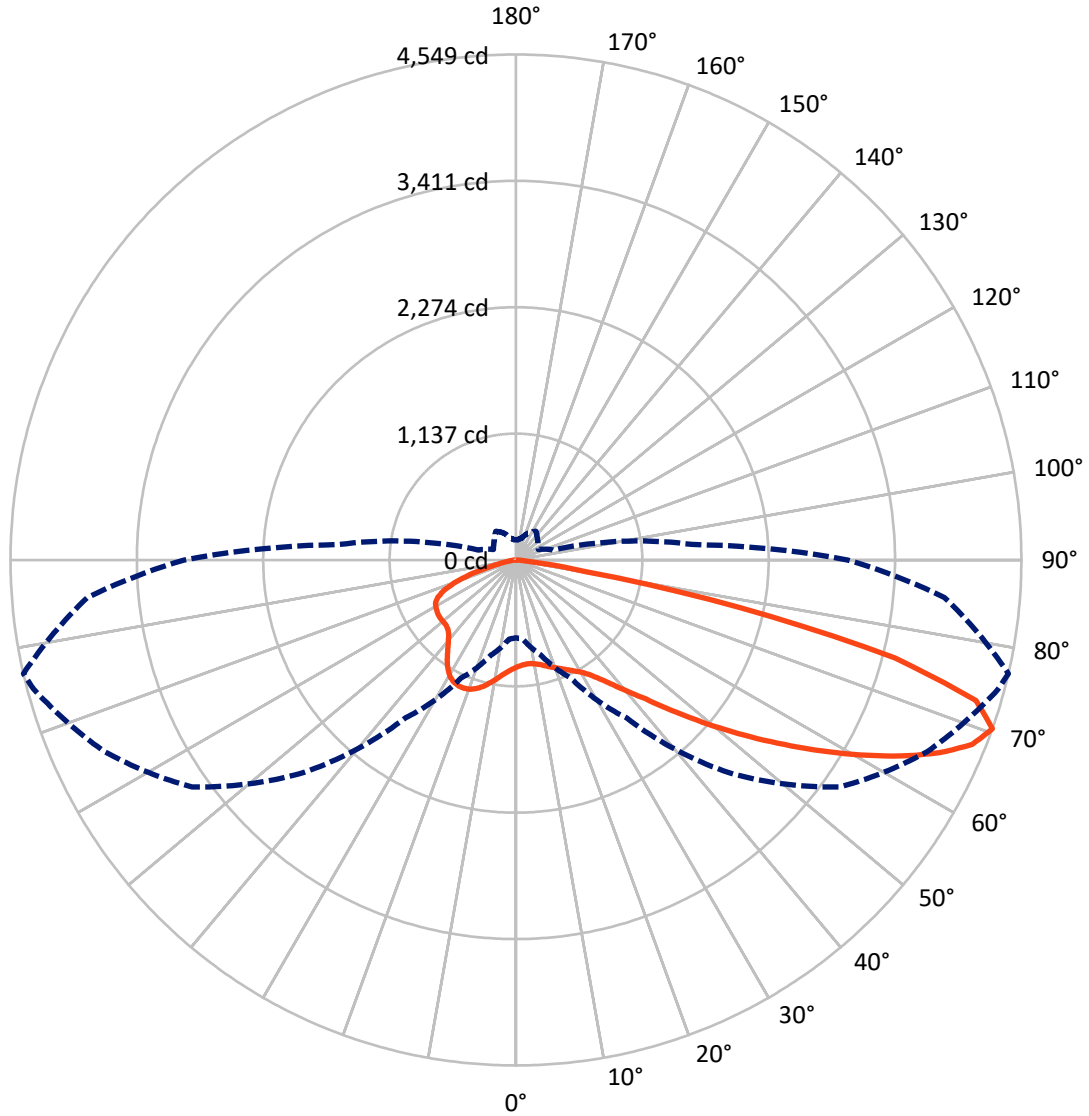
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P945730
CATALOG NUMBER: GALN-SB1C-830-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P945730
 CATALOG NUMBER: GALN-SB1C-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1513.4	0.0	1513.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5397.6	0.0	5397.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	6911.0	0.0	6911.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.3
10°-20°	265.4	3.8
20°-30°	453.8	6.6
30°-40°	729.8	10.6
40°-50°	1139.5	16.5
50°-60°	1522.1	22.0
60°-70°	1622.3	23.5
70°-80°	998.7	14.5
80°-90°	87.5	1.3
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°	6911.0	100.0
0°-180°	6911.0	100.0



REPORT NUMBER: P945730

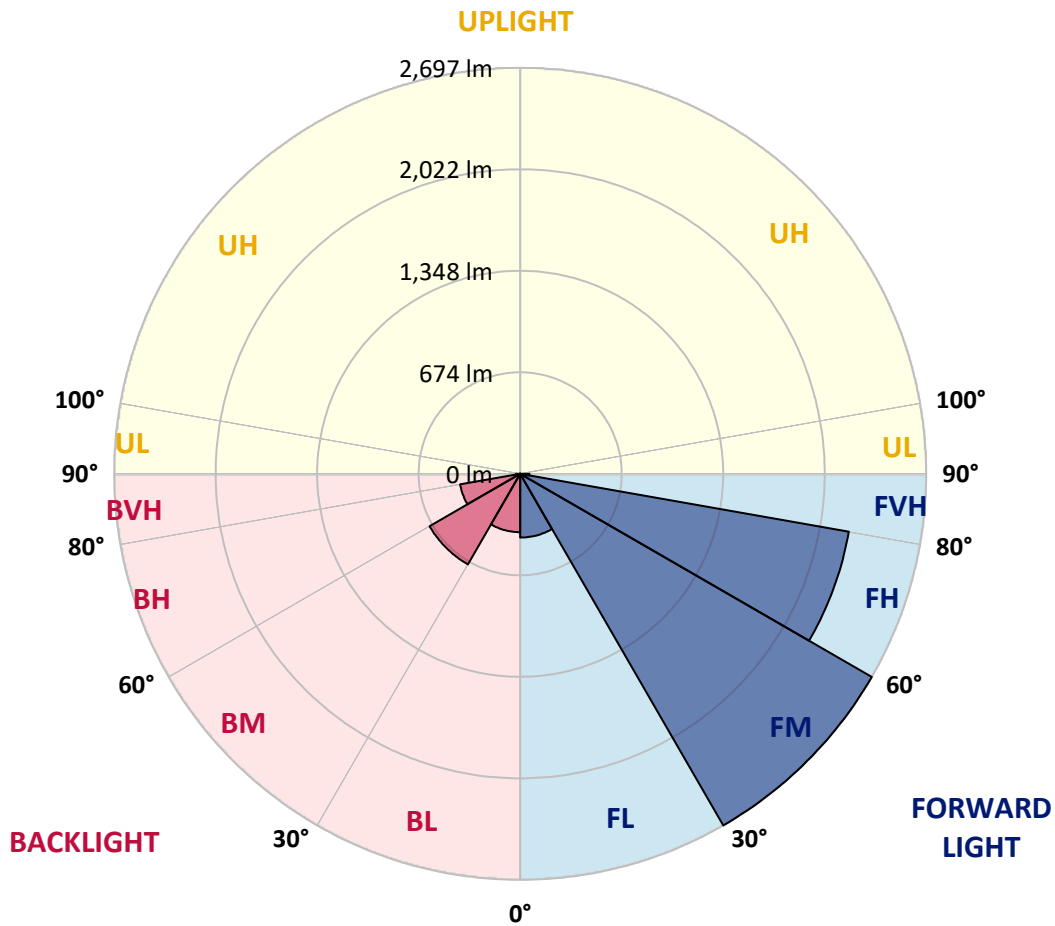
CATALOG NUMBER: GALN-SB1C-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.4	6.1			
FM (30°-60°)	2696.5	39.0			
FH (60°-80°)	2216.5	32.1			G2/5000
FVH (80°-90°)	61.2	0.9			G1/100
BL (0°-30°)	387.8	5.6	B1/500		
BM (30°-60°)	694.8	10.1	B1/1000		
BH (60°-80°)	404.5	5.9	B1/500		G1/500
BVH (80°-90°)	26.3	0.4			G1/100
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 Medium



REPORT NUMBER: P945730
 CATALOG NUMBER: GALN-SB1C-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1
2.5°	888.8	888.4	893.0	894.4	902.9	908.9	920.3	932.3	947.9	949.6
5°	837.4	837.4	842.7	848.4	859.4	871.4	888.8	909.6	936.5	940.8
7.5°	793.9	796.7	801.3	812.3	825.0	842.4	868.9	898.7	934.1	940.8
10°	758.9	762.0	767.7	776.6	795.7	819.7	854.4	892.7	940.1	950.7
12.5°	747.9	751.1	754.3	761.0	778.7	807.0	848.4	895.5	954.6	965.2
15°	773.4	777.3	774.8	773.0	782.2	808.1	851.2	905.7	972.6	987.9
17.5°	832.1	833.5	827.9	811.2	809.8	823.6	864.7	919.9	995.3	1011.9
20°	927.0	924.5	912.8	879.9	861.1	858.3	887.7	941.1	1018.7	1036.4
22.5°	1055.8	1053.0	1029.6	977.6	935.8	908.2	921.0	968.7	1044.8	1064.7
25°	1216.5	1212.6	1178.3	1107.5	1042.7	974.4	966.3	1005.2	1077.1	1095.5
27.5°	1404.1	1400.9	1363.8	1270.3	1176.9	1065.0	1022.5	1048.0	1110.7	1131.6
30°	1605.9	1615.1	1549.2	1448.7	1330.5	1183.2	1098.3	1100.8	1154.2	1173.0
32.5°	1843.0	1858.9	1779.6	1652.2	1490.8	1311.7	1193.9	1174.4	1217.6	1233.1
35°	2078.0	2096.1	2030.2	1889.4	1703.5	1463.2	1293.7	1259.0	1301.8	1318.8
37.5°	2281.2	2305.2	2271.3	2148.8	1931.1	1645.8	1423.9	1358.4	1405.5	1426.8
40°	2441.5	2478.3	2475.8	2399.4	2199.4	1867.4	1589.2	1481.3	1534.4	1557.4
42.5°	2571.8	2603.6	2631.2	2627.3	2479.4	2119.1	1783.5	1640.9	1681.2	1707.8
45°	2661.7	2695.6	2755.1	2819.2	2748.7	2388.4	2006.2	1830.3	1867.1	1907.1
47.5°	2742.0	2780.6	2857.8	2959.3	2977.4	2658.8	2250.0	2050.8	2084.4	2125.8
50°	2749.1	2782.4	2902.0	3046.1	3139.9	2918.6	2512.0	2298.2	2329.7	2373.9
52.5°	2578.1	2630.5	2839.4	3043.6	3214.5	3136.0	2772.1	2555.5	2590.9	2644.0
55°	2001.2	2078.0	2655.7	2948.7	3188.0	3276.5	3019.5	2829.1	2874.4	2930.0
57.5°	1723.7	1757.3	2108.1	2776.0	3066.9	3312.9	3228.3	3105.5	3178.4	3239.3
60°	1549.2	1577.2	1784.6	2507.3	2907.7	3255.2	3389.7	3363.2	3489.2	3561.8
62.5°	1362.3	1388.9	1577.5	2093.6	2703.8	3159.3	3491.7	3601.0	3807.7	3887.0
65°	1176.9	1199.5	1380.4	1759.1	2444.7	3063.4	3544.4	3806.7	4102.6	4184.7
67.5°	970.2	988.9	1159.9	1484.1	2129.7	2932.1	3570.6	3968.4	4359.2	4429.6
70°	700.1	714.6	891.2	1173.7	1734.3	2706.3	3560.0	4083.1	4492.3	4548.6
72.5°	330.9	344.0	551.4	762.0	1225.0	2266.7	3345.1	3992.2	4357.1	4329.1
75°	176.6	187.9	316.8	418.0	647.0	1553.8	2737.4	3438.9	3658.7	3522.8
77.5°	119.6	128.5	196.1	250.9	295.5	737.6	1759.5	2381.0	2290.7	2066.3
80°	94.9	104.1	160.7	169.9	143.0	266.5	727.0	1102.2	791.8	633.2
82.5°	72.9	83.2	135.2	123.2	77.9	109.4	211.7	348.6	202.8	154.3
85°	44.6	55.6	106.2	78.6	43.9	49.9	71.9	97.0	61.9	51.7
87.5°	22.7	31.9	53.8	28.7	19.8	11.7	19.1	19.1	16.3	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945730
 CATALOG NUMBER: GALN-SB1C-830-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
964.1	0°	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1
959.2	2.5°	967.7	974.8	986.8	998.1	1007.0	1015.5	1024.0	1028.6	1030.0	1035.6
964.5	5°	979.0	992.1	1015.5	1037.4	1051.2	1059.7	1065.7	1069.3	1070.0	1071.7
979.0	7.5°	999.9	1020.8	1053.3	1075.3	1085.6	1084.8	1082.4	1073.5	1070.0	1066.8
1000.2	10°	1029.3	1056.9	1096.9	1112.1	1105.7	1088.7	1066.8	1041.0	1028.9	1017.2
1029.3	12.5°	1065.7	1100.8	1140.1	1139.4	1107.8	1064.3	1013.3	973.7	948.6	930.5
1065.0	15°	1110.0	1150.3	1180.4	1156.3	1087.3	1009.1	934.4	882.7	860.1	840.3
1101.1	17.5°	1155.6	1198.8	1212.6	1151.0	1035.6	927.3	842.7	802.0	779.7	769.1
1140.1	20°	1200.2	1243.1	1231.7	1120.6	957.1	834.6	759.2	736.9	732.3	734.8
1177.9	22.5°	1247.3	1285.5	1235.6	1061.8	856.9	739.7	698.3	699.0	709.3	716.7
1217.6	25°	1295.4	1321.3	1225.4	976.9	749.3	670.0	659.8	671.1	691.3	705.8
1262.2	27.5°	1341.8	1353.1	1203.1	871.8	656.9	620.1	621.9	645.2	675.7	695.9
1316.3	30°	1394.2	1381.4	1160.2	753.5	592.9	577.3	592.2	619.4	649.8	667.9
1384.6	32.5°	1453.3	1405.9	1092.3	644.2	547.6	543.0	567.4	585.1	598.5	603.8
1475.2	35°	1526.9	1440.2	1005.2	567.4	506.8	517.8	541.2	532.3	527.0	524.2
1597.0	37.5°	1622.5	1486.6	903.3	517.5	473.9	499.8	509.3	481.7	460.8	450.6
1744.6	40°	1737.5	1554.5	805.2	478.9	453.1	484.2	467.6	434.3	407.7	393.2
1910.6	42.5°	1865.3	1625.7	722.8	449.9	441.4	471.5	436.8	397.1	354.3	349.7
2108.5	45°	1999.4	1698.9	666.5	427.6	435.7	460.5	419.1	355.0	324.6	343.3
2307.0	47.5°	2133.6	1766.2	632.5	410.9	432.9	448.1	403.5	331.6	310.1	337.3
2519.7	50°	2282.9	1826.4	617.3	398.9	429.7	443.1	380.1	325.6	294.8	312.9
2739.9	52.5°	2431.3	1873.1	606.0	386.9	425.1	439.2	368.8	318.6	276.4	277.5
2961.5	55°	2579.2	1903.5	593.6	370.9	414.8	430.8	367.7	310.8	262.6	257.7
3195.8	57.5°	2737.1	1920.9	578.3	353.2	397.1	409.2	366.7	304.7	258.4	250.2
3435.4	60°	2897.8	1946.3	558.5	331.6	373.4	383.3	364.2	302.6	255.9	242.1
3661.2	62.5°	3041.8	1955.2	534.8	311.1	343.0	357.8	358.9	300.9	249.2	225.5
3848.8	65°	3136.3	1917.0	493.4	287.8	310.1	331.6	348.6	294.8	237.1	213.4
3941.5	67.5°	3132.4	1808.0	428.6	257.7	278.2	302.6	333.8	284.6	222.6	198.6
3871.5	70°	2986.6	1592.8	346.5	222.6	243.2	271.5	314.7	269.4	205.3	182.3
3442.5	72.5°	2561.5	1246.6	251.7	181.6	202.5	239.3	289.9	250.9	187.6	167.8
2544.2	75°	1829.9	788.9	170.6	139.5	157.5	202.8	259.1	229.4	171.3	168.5
1274.2	77.5°	934.8	377.0	112.9	101.9	109.7	160.0	217.7	204.9	173.8	139.1
362.4	80°	304.0	139.1	71.1	69.4	72.9	106.5	168.5	168.1	131.7	94.5
87.8	82.5°	97.0	59.8	46.4	44.6	42.8	66.9	117.5	133.1	88.8	59.8
31.5	85°	38.6	35.7	27.3	25.1	18.1	31.5	61.6	88.5	66.2	43.2
8.1	87.5°	14.2	14.2	7.4	5.3	3.9	10.6	16.6	26.5	37.9	22.3
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>
964.1
1038.8
1074.6
1067.5
1013.7
926.3
838.1
772.3
733.7
718.5
709.7
700.8
672.1
606.7
527.0
453.1
394.3
354.3
353.2
350.1
326.3
284.9
261.2
251.3
243.2
225.5
213.4
199.6
184.4
166.7
158.9
123.9
83.5
59.5
44.2
21.9
0.0

F REPORT)