

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: P938965

Luminaire Tested: **GALN-SB1B-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5015 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

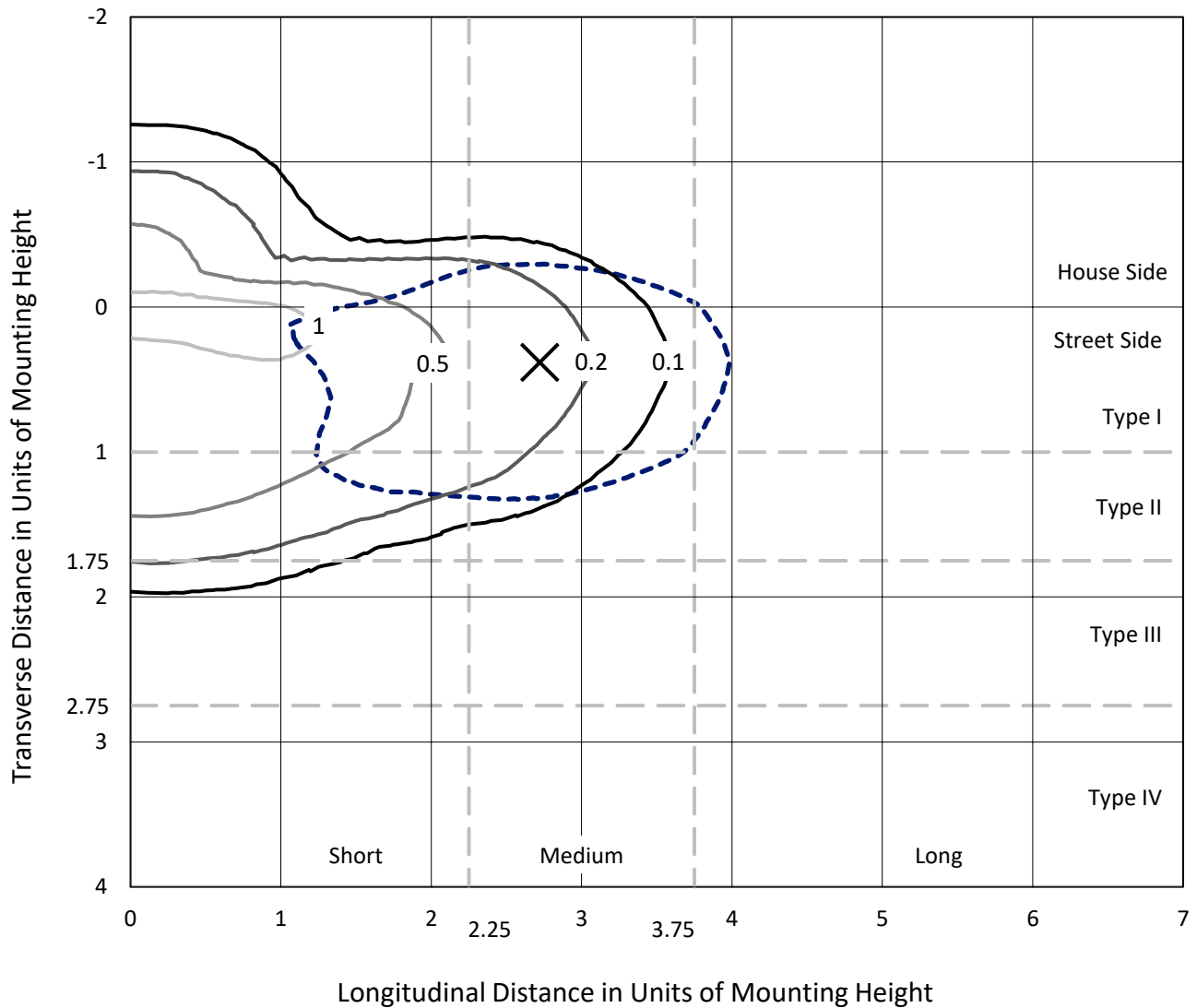
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938965
 CATALOG NUMBER: GALN-SB1B-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

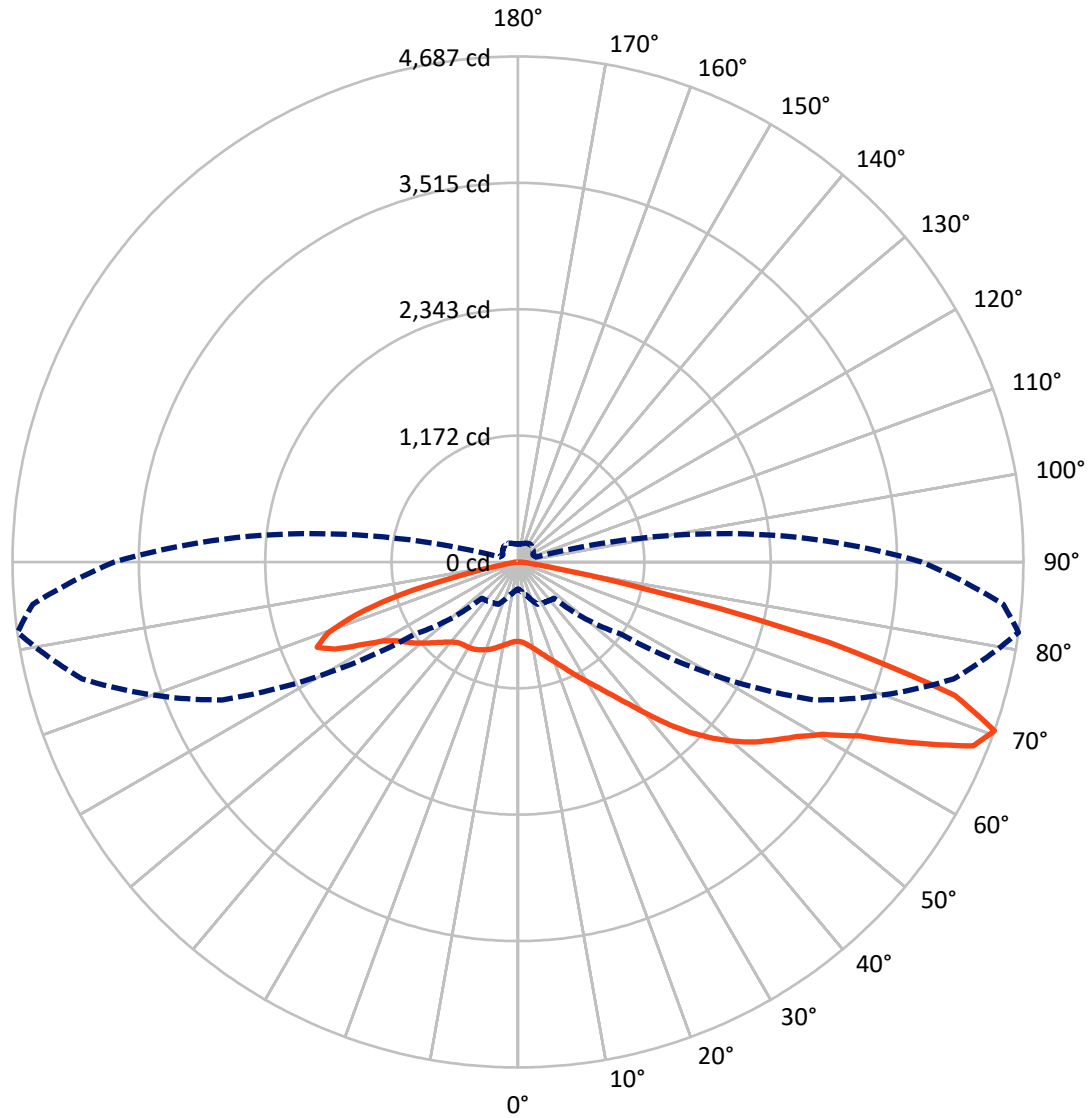
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P938965
CATALOG NUMBER: GALN-SB1B-830-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P938965
 CATALOG NUMBER: GALN-SB1B-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1236.3	0.0	1236.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3778.7	0.0	3778.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	5015.0	0.0	5015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.4
10°-20°	199.5	4.0
20°-30°	333.7	6.7
30°-40°	521.3	10.4
40°-50°	830.2	16.6
50°-60°	1155.3	23.0
60°-70°	1208.5	24.1
70°-80°	631.6	12.6
80°-90°	65.6	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°	5015.0	100.0
0°-180°	5015.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938965

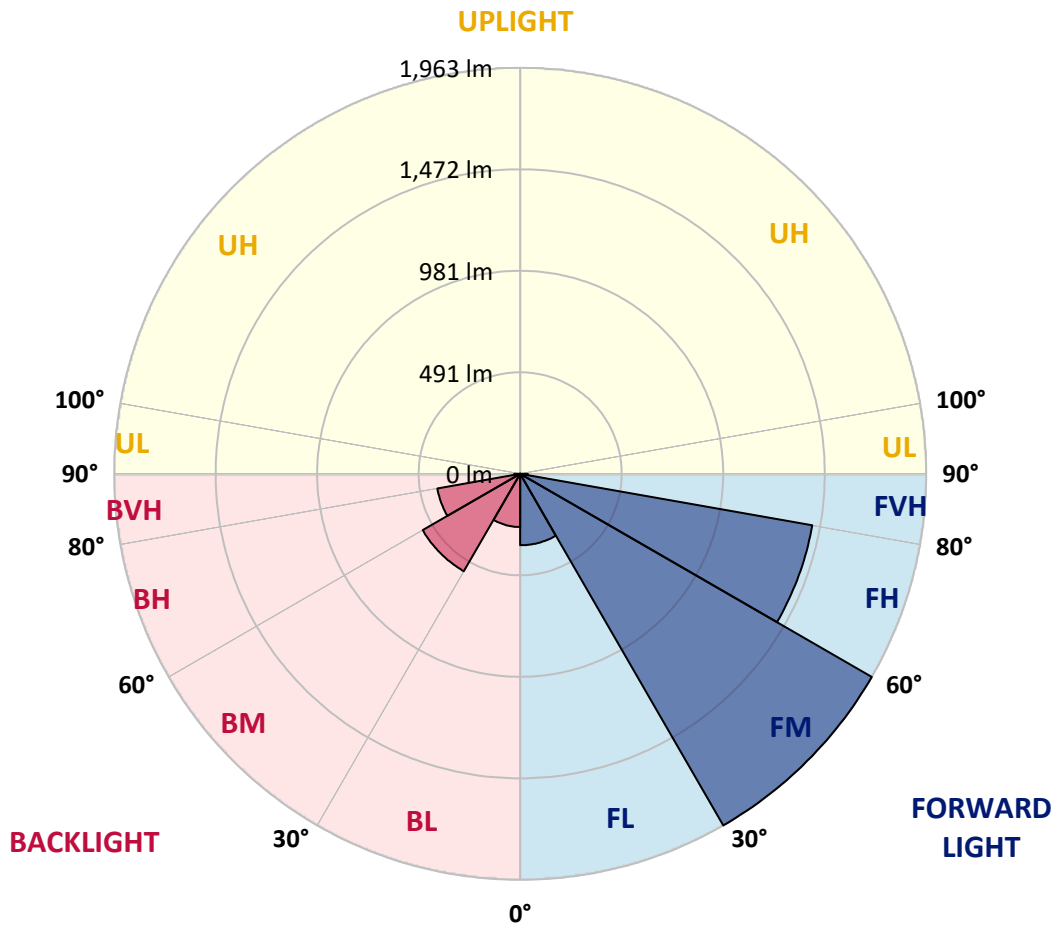
CATALOG NUMBER: GALN-SB1B-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.3	6.9			
FM (30°-60°)	1962.8	39.1			
FH (60°-80°)	1433.8	28.6			G1/1800
FVH (80°-90°)	36.7	0.7			G1/100
BL (0°-30°)	257.2	5.1	B1/500		
BM (30°-60°)	543.9	10.8	B1/1000		
BH (60°-80°)	406.3	8.1	B1/500		G1/500
BVH (80°-90°)	28.9	0.6			G1/100
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 Medium



REPORT NUMBER: P938965
 CATALOG NUMBER: GALN-SB1B-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3
2.5°	752.8	757.1	755.8	754.4	754.4	752.6	752.3	749.6	747.5	744.0
5°	762.4	766.9	766.4	767.5	770.9	771.7	772.5	770.9	766.7	762.4
7.5°	753.9	758.9	760.5	766.9	777.6	787.2	794.3	797.3	793.3	787.2
10°	725.1	730.7	736.3	751.5	770.4	793.0	812.2	823.6	822.8	817.0
12.5°	666.9	672.7	684.7	714.2	748.8	788.7	824.4	848.4	856.6	852.4
15°	620.3	625.4	634.4	664.7	709.7	770.4	828.9	875.5	896.5	894.1
17.5°	619.0	621.1	626.7	641.1	675.7	741.6	824.1	902.1	942.3	942.0
20°	642.4	643.2	646.4	649.3	669.0	719.8	811.9	924.2	993.7	993.7
22.5°	674.9	674.3	677.5	674.9	684.4	718.0	804.2	943.6	1050.9	1055.1
25°	723.6	720.9	720.1	714.0	715.8	735.3	812.7	965.7	1118.7	1127.5
27.5°	788.5	784.2	781.3	767.2	762.4	770.9	838.8	992.3	1194.3	1209.5
30°	873.1	865.4	861.1	836.6	819.4	820.7	878.2	1027.7	1273.3	1297.8
32.5°	988.6	976.6	965.2	925.0	893.3	883.0	929.0	1076.7	1359.0	1398.1
35°	1117.9	1108.3	1096.1	1034.1	985.4	961.5	997.6	1145.1	1459.3	1521.4
37.5°	1242.5	1234.2	1240.1	1156.5	1093.7	1058.9	1087.6	1236.9	1583.1	1674.6
40°	1371.3	1364.9	1365.7	1285.8	1212.7	1173.5	1196.7	1352.1	1724.9	1856.9
42.5°	1511.2	1506.4	1490.5	1419.7	1337.5	1301.0	1322.3	1485.2	1877.1	2064.5
45°	1668.0	1665.0	1650.1	1569.0	1474.8	1433.8	1462.5	1632.1	2030.2	2259.8
47.5°	1803.4	1805.8	1804.0	1735.6	1637.9	1577.8	1612.1	1785.3	2172.5	2443.4
50°	1868.6	1881.1	1899.5	1878.2	1817.5	1756.3	1763.0	1933.3	2308.2	2615.6
52.5°	1834.6	1858.2	1908.3	1942.3	1965.8	1953.0	1935.2	2080.2	2436.0	2771.0
55°	1707.6	1740.9	1823.9	1906.1	2025.6	2118.5	2141.9	2243.0	2560.5	2907.8
57.5°	1476.4	1530.4	1604.9	1771.2	1972.4	2198.6	2383.0	2469.0	2692.5	3053.9
60°	1079.9	1152.3	1244.9	1492.3	1786.1	2155.8	2588.2	2816.0	2880.1	3243.1
62.5°	691.1	735.8	820.9	1054.1	1391.8	1936.2	2651.0	3249.7	3198.1	3553.4
65°	473.1	501.9	579.9	710.8	899.7	1441.3	2482.8	3574.9	3703.2	4045.1
67.5°	343.8	365.6	432.2	546.9	586.2	852.9	1926.6	3560.0	4194.2	4551.8
70°	250.7	266.1	322.0	432.2	451.1	474.5	1167.2	3026.2	4183.5	4686.5
72.5°	185.7	196.4	233.9	335.3	365.1	320.4	577.7	2199.4	3594.9	4238.9
75°	134.4	142.4	170.0	256.5	292.2	244.0	288.2	1285.3	2507.6	2981.8
77.5°	102.7	108.8	126.9	187.9	233.9	183.1	178.8	591.3	1189.0	1194.8
80°	82.5	86.5	96.3	132.3	179.4	137.0	116.6	238.7	375.7	318.0
82.5°	60.7	67.3	81.4	92.9	128.3	94.5	71.1	120.5	142.9	122.9
85°	34.6	39.1	49.2	66.5	82.0	57.7	40.7	53.5	66.5	54.6
87.5°	12.2	16.0	17.3	26.1	35.7	23.9	15.7	15.4	21.8	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938965
 CATALOG NUMBER: GALN-SB1B-830-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
735.3	0°	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3
743.2	2.5°	740.6	739.3	733.9	726.7	719.3	712.1	709.7	704.7	701.2	699.3
760.5	5°	755.5	751.2	738.7	722.8	706.0	687.9	675.1	663.4	654.9	646.9
784.2	7.5°	776.8	769.3	747.8	719.8	690.0	660.0	637.6	620.6	609.1	601.7
811.9	10°	801.5	790.1	757.1	715.3	669.3	626.2	599.8	585.2	578.0	574.0
843.6	12.5°	830.0	813.8	766.7	704.9	637.6	588.4	570.3	566.0	566.3	566.5
883.5	15°	865.1	842.5	774.4	682.3	596.4	559.4	556.2	563.1	570.3	573.7
928.7	17.5°	904.8	872.8	775.7	645.1	555.9	540.7	550.8	565.7	576.7	581.5
979.3	20°	947.4	903.7	766.1	592.4	522.6	525.6	543.7	562.8	574.8	580.9
1037.0	22.5°	996.0	936.7	743.2	537.0	495.5	509.1	530.4	549.0	561.5	567.6
1104.9	25°	1051.7	973.7	707.3	490.4	472.1	490.4	511.7	527.2	537.3	542.9
1180.7	27.5°	1113.4	1012.3	659.4	453.5	451.6	471.3	488.8	500.8	506.1	510.4
1261.4	30°	1175.4	1047.4	601.4	425.5	433.8	452.4	464.9	470.2	471.8	472.6
1351.3	32.5°	1242.5	1077.7	540.5	402.4	416.7	434.0	441.5	443.9	436.4	431.4
1460.4	35°	1323.6	1110.2	480.9	384.0	400.0	414.9	417.3	415.1	406.3	396.0
1597.2	37.5°	1424.0	1150.7	433.2	371.0	384.3	394.1	391.2	390.6	391.4	379.2
1761.6	40°	1546.9	1203.3	398.4	360.8	371.5	373.6	365.4	369.9	373.9	355.3
1942.1	42.5°	1683.4	1266.9	376.3	353.9	360.8	355.8	343.0	348.1	347.5	323.1
2123.3	45°	1822.6	1336.1	368.6	348.9	351.0	340.9	326.8	328.1	316.9	294.8
2297.1	47.5°	1961.0	1410.4	373.4	344.6	338.8	327.3	316.4	310.6	294.1	277.6
2463.6	50°	2096.7	1488.4	390.9	336.1	322.0	315.3	307.4	297.0	279.4	265.3
2621.2	52.5°	2222.6	1566.9	410.6	322.0	301.0	305.0	299.9	287.9	270.6	256.3
2770.2	55°	2341.8	1645.4	418.3	302.6	281.3	295.9	293.0	270.9	250.1	238.4
2926.1	57.5°	2471.6	1739.8	409.8	277.8	265.3	285.5	274.4	249.9	237.9	229.1
3129.2	60°	2651.5	1888.0	391.4	247.2	250.1	270.1	250.9	240.8	227.8	217.9
3433.6	62.5°	2950.4	2164.5	361.9	216.9	232.3	247.2	239.8	229.7	216.3	206.8
3954.1	65°	3392.1	2548.8	306.3	193.2	212.4	224.9	227.8	217.7	203.8	193.7
4410.2	67.5°	3764.7	2789.9	231.8	173.5	191.9	206.8	215.0	205.2	190.5	180.7
4516.9	70°	3744.2	2614.8	177.0	154.1	173.8	188.9	199.6	191.9	176.2	166.9
4102.9	72.5°	3325.6	2187.4	143.2	134.4	155.4	170.3	183.1	177.2	161.3	152.2
3005.7	75°	2443.2	1552.8	114.4	114.4	132.5	150.9	165.0	161.3	146.6	140.2
1261.9	77.5°	1029.8	651.4	89.7	95.0	110.2	129.6	147.2	148.5	135.7	143.7
333.7	80°	273.8	179.6	68.4	74.8	86.5	107.0	128.0	127.5	113.6	106.2
124.0	82.5°	104.3	70.8	48.7	52.7	62.5	82.0	101.4	104.6	90.7	78.5
48.7	85°	40.2	30.3	30.1	31.7	36.5	54.3	76.6	79.3	68.4	58.0
13.6	87.5°	10.4	9.0	11.2	10.6	16.8	29.0	43.9	45.5	41.8	24.2
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>
735.3
701.5
650.1
603.3
575.1
567.1
573.5
582.5
582.5
569.2
544.5
512.0
474.5
433.0
396.5
380.0
355.8
322.8
295.6
277.6
264.2
256.5
237.4
228.3
217.4
206.8
194.3
181.0
167.6
152.2
138.4
130.4
98.7
78.5
59.9
34.6
0.0

F REPORT)