

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: P939089

Luminaire Tested: **GALN-SB1C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7404 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

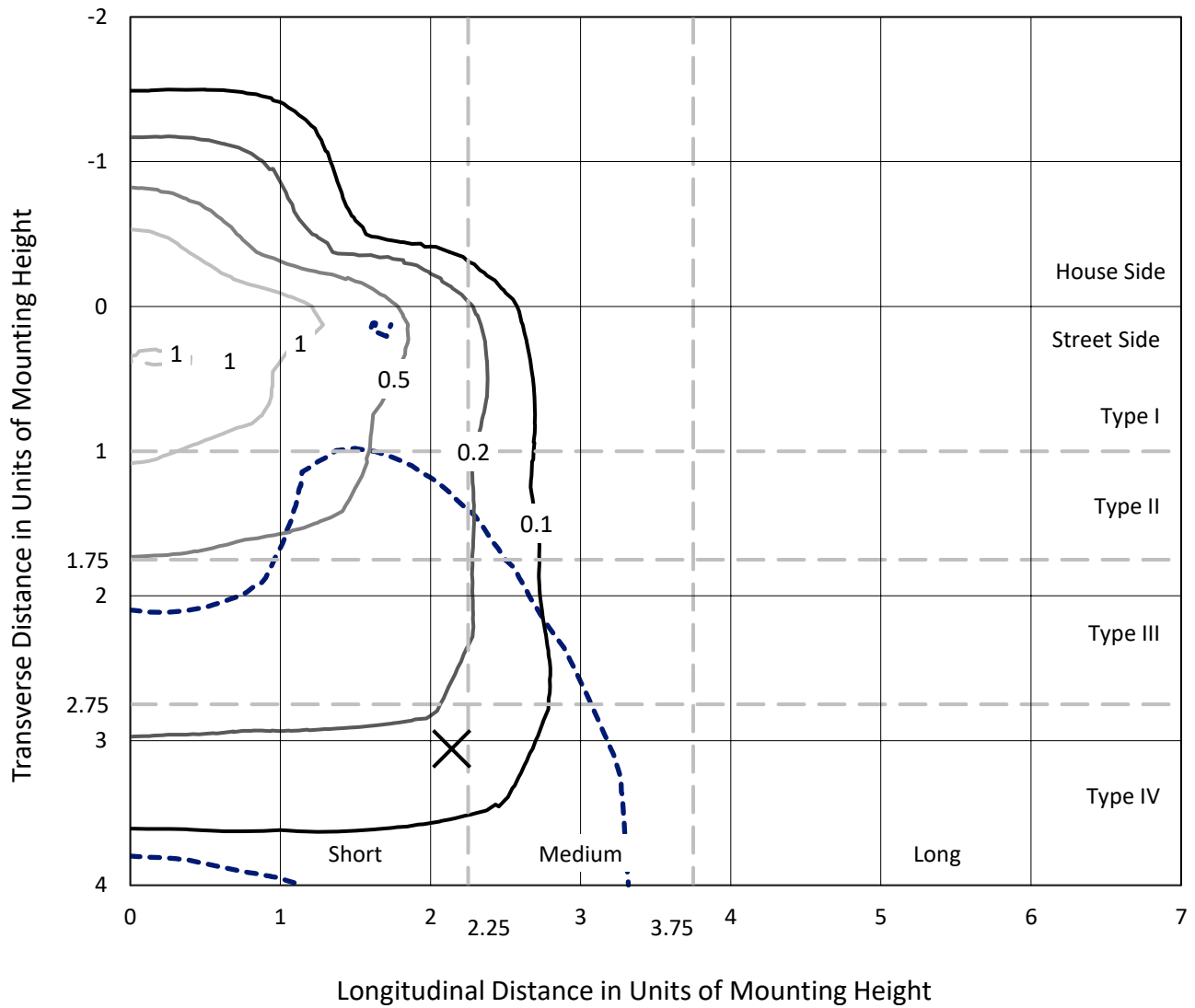
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939089
 CATALOG NUMBER: GALN-SB1C-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

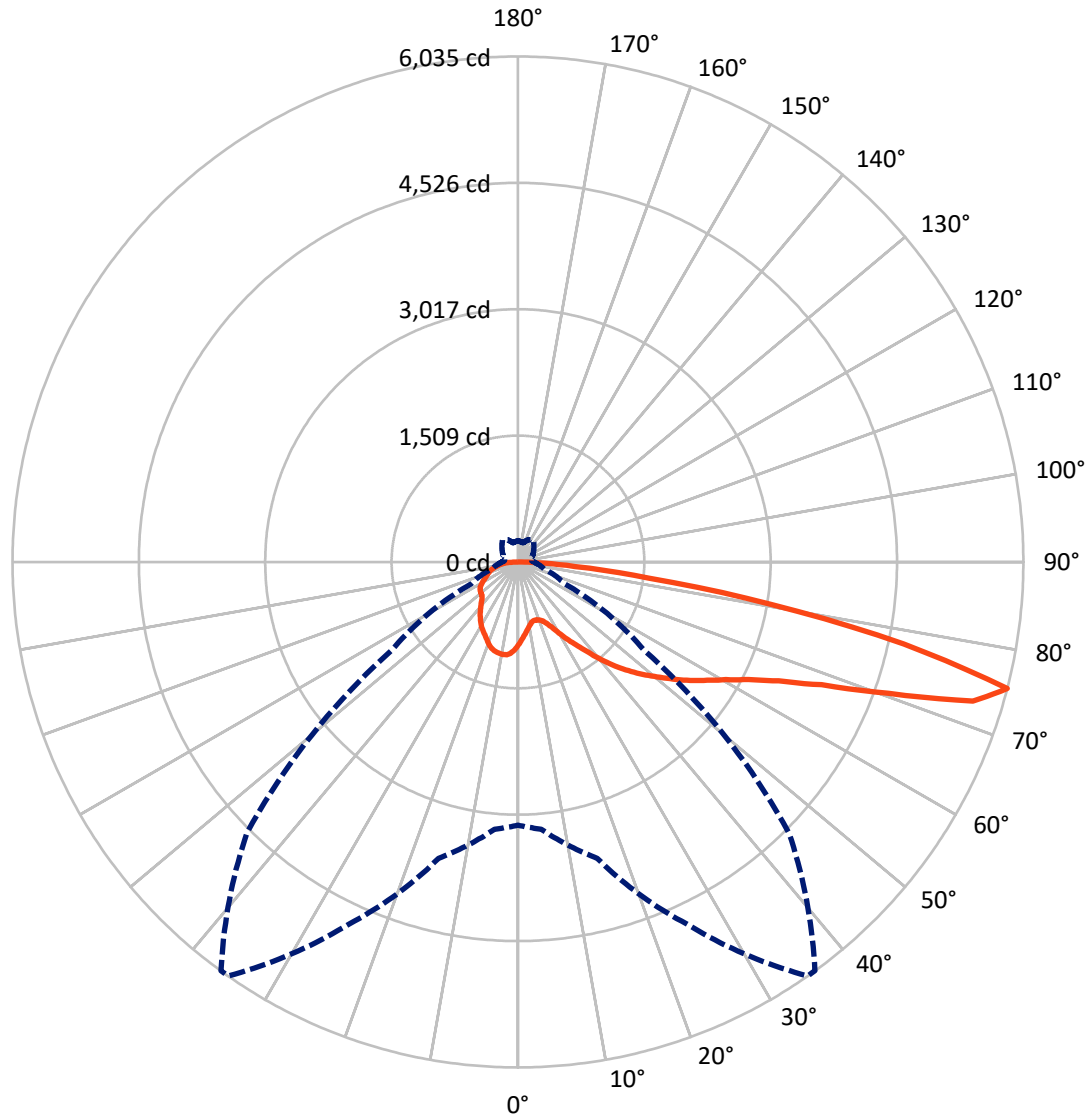
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P939089
CATALOG NUMBER: GALN-SB1C-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P939089
 CATALOG NUMBER: GALN-SB1C-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.0	0.0	1762.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5642.0	0.0	5642.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	7404.0	0.0	7404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	1.3
10°-20°	269.4	3.6
20°-30°	452.5	6.1
30°-40°	703.2	9.5
40°-50°	1043.7	14.1
50°-60°	1440.9	19.5
60°-70°	1748.2	23.6
70°-80°	1444.8	19.5
80°-90°	207.8	2.8
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°	7404.0	100.0
0°-180°	7404.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939089

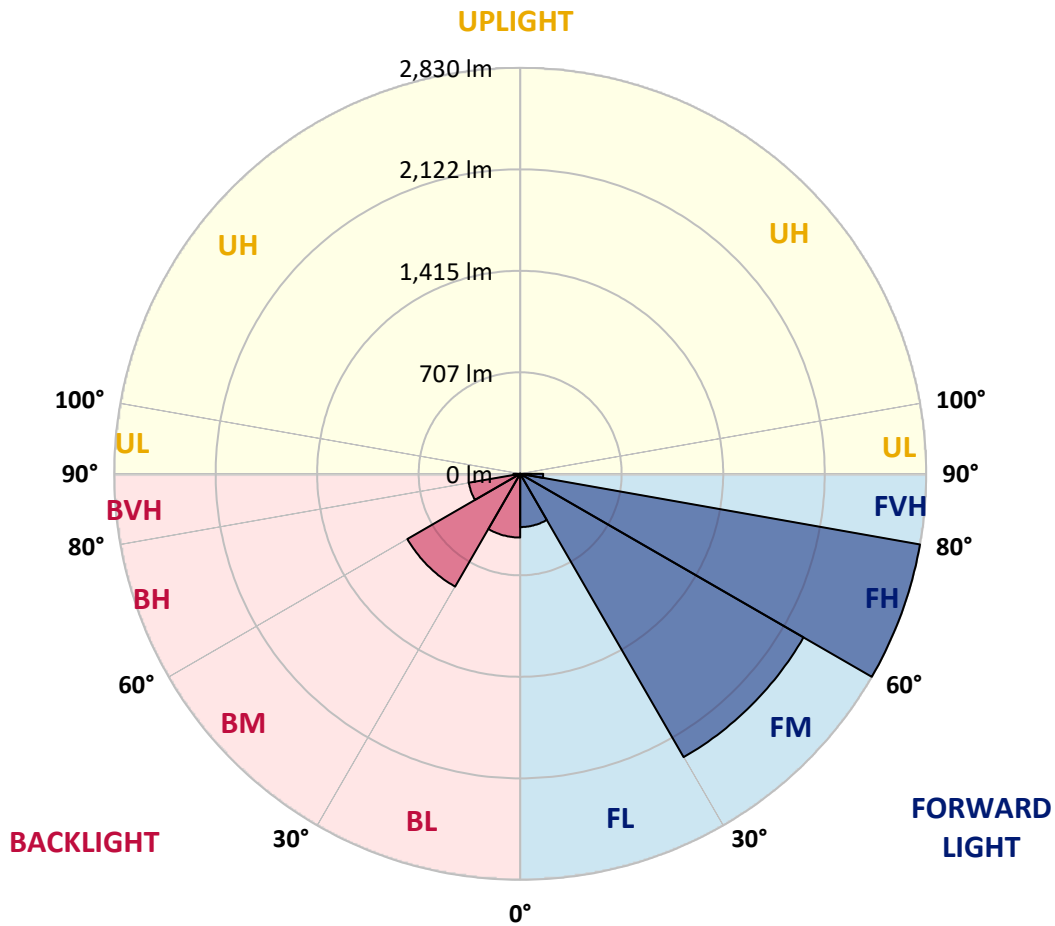
CATALOG NUMBER: GALN-SB1C-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.3	5.0			
FM (30°-60°)	2280.0	30.8			
FH (60°-80°)	2829.7	38.2			G2/5000
FVH (80°-90°)	161.0	2.2			G2/225
BL (0°-30°)	444.0	6.0	B1/500		
BM (30°-60°)	907.9	12.3	B1/1000		
BH (60°-80°)	363.3	4.9	B1/500		G1/500
BVH (80°-90°)	46.8	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-G2

Type IV Short



REPORT NUMBER: P939089

CATALOG NUMBER: GALN-SB1C-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6
2.5°	909.8	915.4	917.8	916.6	922.6	921.8	930.2	940.6	955.0	969.0
5°	839.7	845.7	850.9	855.7	867.4	871.0	884.2	904.2	930.6	957.4
7.5°	774.5	779.7	787.7	796.5	816.1	819.7	841.7	873.0	909.8	949.0
10°	721.3	726.5	734.9	744.9	769.3	773.7	801.7	843.3	891.4	941.0
12.5°	698.4	700.0	704.9	714.9	736.1	738.9	769.7	817.3	873.4	935.0
15°	697.2	700.4	700.8	706.1	723.7	724.9	753.3	800.5	862.2	933.8
17.5°	709.3	711.7	708.1	711.3	726.1	728.1	750.5	792.5	858.6	939.0
20°	741.3	743.3	732.5	728.1	738.9	740.5	762.5	797.7	862.2	949.8
22.5°	809.3	810.5	784.1	766.1	766.9	767.7	786.9	818.9	876.2	969.4
25°	915.4	914.6	872.6	837.7	817.7	813.3	826.1	853.3	899.8	995.4
27.5°	1039.5	1033.5	991.4	939.4	895.8	889.4	886.6	898.2	933.4	1029.9
30°	1179.6	1174.0	1128.7	1060.7	1000.2	989.8	963.4	957.4	983.4	1076.7
32.5°	1333.3	1329.7	1275.6	1193.2	1112.3	1100.3	1055.9	1039.9	1060.3	1147.5
35°	1462.1	1458.9	1414.1	1329.3	1230.4	1215.6	1170.4	1152.3	1162.7	1238.4
37.5°	1578.6	1577.0	1538.6	1471.7	1369.7	1351.7	1300.8	1294.8	1292.8	1358.1
40°	1686.7	1682.7	1642.7	1607.4	1531.8	1515.4	1470.5	1465.3	1450.1	1505.4
42.5°	1806.4	1796.0	1737.9	1721.5	1701.1	1687.5	1660.7	1661.5	1627.8	1671.5
45°	1904.0	1898.0	1838.4	1828.8	1850.8	1845.2	1868.4	1874.4	1809.2	1845.6
47.5°	2008.9	2003.3	1952.9	1946.0	2005.7	2007.3	2089.3	2091.3	1986.1	2026.5
50°	2138.2	2130.2	2080.1	2088.5	2155.4	2161.4	2311.5	2297.9	2149.0	2210.2
52.5°	2223.4	2228.2	2217.4	2231.0	2322.3	2327.9	2530.0	2495.2	2310.3	2391.5
55°	2286.3	2295.9	2329.5	2360.7	2498.4	2504.0	2736.2	2682.9	2444.0	2559.6
57.5°	2367.1	2353.5	2416.4	2477.2	2665.7	2680.5	2936.7	2863.8	2562.4	2704.5
60°	2483.2	2473.6	2522.4	2612.5	2853.0	2876.6	3148.8	3026.7	2649.3	2819.4
62.5°	2718.5	2694.5	2702.1	2781.8	3089.2	3120.4	3388.2	3168.8	2692.5	2864.2
65°	3070.4	3029.1	2990.7	3046.0	3421.8	3452.6	3658.3	3280.5	2676.5	2777.4
67.5°	3513.5	3472.6	3425.4	3477.4	3911.7	3936.1	3991.8	3343.3	2550.4	2442.8
70°	3878.9	3863.7	3920.1	4134.3	4694.2	4695.0	4419.2	3291.3	2205.0	1731.9
72.5°	3830.5	3821.3	4118.6	4780.7	5680.4	5659.2	4823.9	2897.5	1485.4	781.3
75°	3142.4	3202.1	3662.8	4769.1	6034.7	6031.9	4576.1	1842.0	614.4	323.8
77.5°	1685.1	1779.5	2377.9	3521.1	4711.0	4781.9	3217.3	644.4	263.8	207.3
80°	549.6	632.0	947.8	1792.8	3061.2	3048.0	1378.9	253.0	180.5	146.9
82.5°	233.3	243.0	423.5	846.5	1571.0	1546.6	439.1	145.3	126.9	100.5
85°	91.3	102.1	186.9	391.5	680.4	665.6	158.5	72.0	81.3	65.6
87.5°	30.0	36.4	66.8	134.1	211.7	204.1	38.8	24.8	35.2	30.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939089
 CATALOG NUMBER: GALN-SB1C-735-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
986.6	0°	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6
989.4	2.5°	995.0	1001.4	1009.0	1020.3	1029.9	1037.9	1046.3	1051.5	1053.5	1059.5
991.0	5°	1002.2	1016.3	1035.1	1053.5	1071.5	1082.3	1091.9	1096.7	1101.1	1104.3
995.4	7.5°	1014.3	1032.3	1061.9	1085.9	1101.1	1109.9	1116.3	1114.7	1116.3	1117.1
1000.2	10°	1024.7	1049.9	1085.1	1107.9	1119.5	1119.9	1118.3	1112.7	1109.9	1110.3
1007.4	12.5°	1037.1	1065.1	1103.1	1122.3	1125.5	1116.7	1109.9	1100.3	1096.7	1095.1
1018.3	15°	1053.9	1085.9	1122.7	1129.9	1121.9	1110.7	1099.1	1083.5	1075.5	1069.1
1036.7	17.5°	1074.3	1109.5	1137.9	1132.7	1115.5	1097.1	1078.3	1054.7	1038.3	1031.5
1061.9	20°	1102.7	1134.3	1149.5	1126.7	1100.7	1072.7	1040.7	1011.8	996.6	989.8
1093.9	22.5°	1137.1	1167.5	1160.7	1116.3	1079.5	1034.7	994.6	973.4	965.8	961.0
1135.1	25°	1178.4	1204.4	1168.7	1101.1	1044.7	984.2	953.4	946.6	943.0	939.4
1185.6	27.5°	1232.0	1246.0	1174.8	1078.7	990.2	930.6	919.4	920.6	919.4	913.4
1255.6	30°	1302.8	1300.0	1180.4	1042.3	927.8	882.2	883.0	888.2	889.0	885.0
1353.3	32.5°	1396.1	1367.7	1183.2	995.0	868.2	839.7	840.5	846.1	850.1	843.3
1481.0	35°	1509.0	1446.5	1178.8	935.8	822.1	799.3	793.3	794.9	796.1	789.7
1635.8	37.5°	1640.7	1535.0	1159.1	870.2	784.1	759.7	746.9	736.1	729.7	723.7
1811.2	40°	1785.1	1631.4	1123.1	806.1	741.7	717.7	698.4	678.0	656.4	648.4
1996.9	42.5°	1936.4	1730.7	1079.5	744.9	692.8	673.2	652.8	623.2	590.8	574.4
2189.8	45°	2093.3	1832.4	1036.7	684.4	642.8	634.4	610.8	575.2	539.9	519.1
2383.1	47.5°	2247.0	1928.4	973.8	623.6	596.0	605.2	586.8	554.0	514.7	481.9
2574.9	50°	2393.9	2018.5	871.0	562.0	558.0	596.4	578.8	531.5	486.7	444.7
2763.0	52.5°	2539.6	2091.3	739.3	505.9	537.5	594.0	568.4	516.3	461.5	417.5
2939.9	55°	2663.3	2129.0	612.4	457.9	507.9	573.6	556.0	498.3	425.9	379.0
3061.2	57.5°	2733.8	2098.5	506.7	410.7	467.1	539.9	534.7	459.9	383.4	347.4
3084.8	60°	2703.3	1975.3	420.3	369.4	428.3	503.5	497.9	421.9	351.0	317.0
2958.3	62.5°	2535.6	1740.3	351.8	333.4	393.1	466.3	461.1	392.7	326.2	293.4
2622.5	65°	2197.8	1415.7	298.6	303.4	357.4	421.5	429.1	368.2	306.6	274.6
2028.9	67.5°	1676.3	1025.5	257.0	277.4	322.6	377.4	399.5	350.6	290.2	259.8
1174.0	70°	955.4	582.4	221.7	252.2	291.8	336.6	376.6	336.6	272.6	247.4
439.9	72.5°	362.2	267.4	191.7	226.9	262.2	302.2	351.4	314.6	252.2	233.3
227.3	75°	193.3	162.9	161.3	197.3	228.1	268.6	319.8	293.0	237.0	246.6
157.3	77.5°	131.7	115.3	134.9	168.9	190.9	231.3	286.2	260.2	205.3	204.5
108.9	80°	91.3	81.7	109.7	136.1	147.7	194.5	249.8	223.3	167.3	156.1
67.2	82.5°	54.8	53.2	82.1	101.7	104.5	150.1	206.9	187.3	136.9	119.3
40.0	85°	30.0	31.6	52.4	59.6	60.8	104.9	162.1	144.9	105.3	88.5
14.4	87.5°	8.4	10.8	19.2	23.6	29.2	54.4	96.5	86.1	52.8	36.8
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>
986.6
1059.1
1105.1
1118.3
1111.1
1094.3
1071.1
1031.9
989.0
961.8
939.4
914.6
887.0
846.5
794.1
727.7
652.0
576.4
517.5
478.3
441.1
412.7
375.0
342.6
312.2
288.2
269.4
255.0
244.2
230.1
254.6
188.5
149.3
120.1
89.3
36.8
0.0

F REPORT)