

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: P939304

Luminaire Tested: **GALN-SB1D-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6679 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

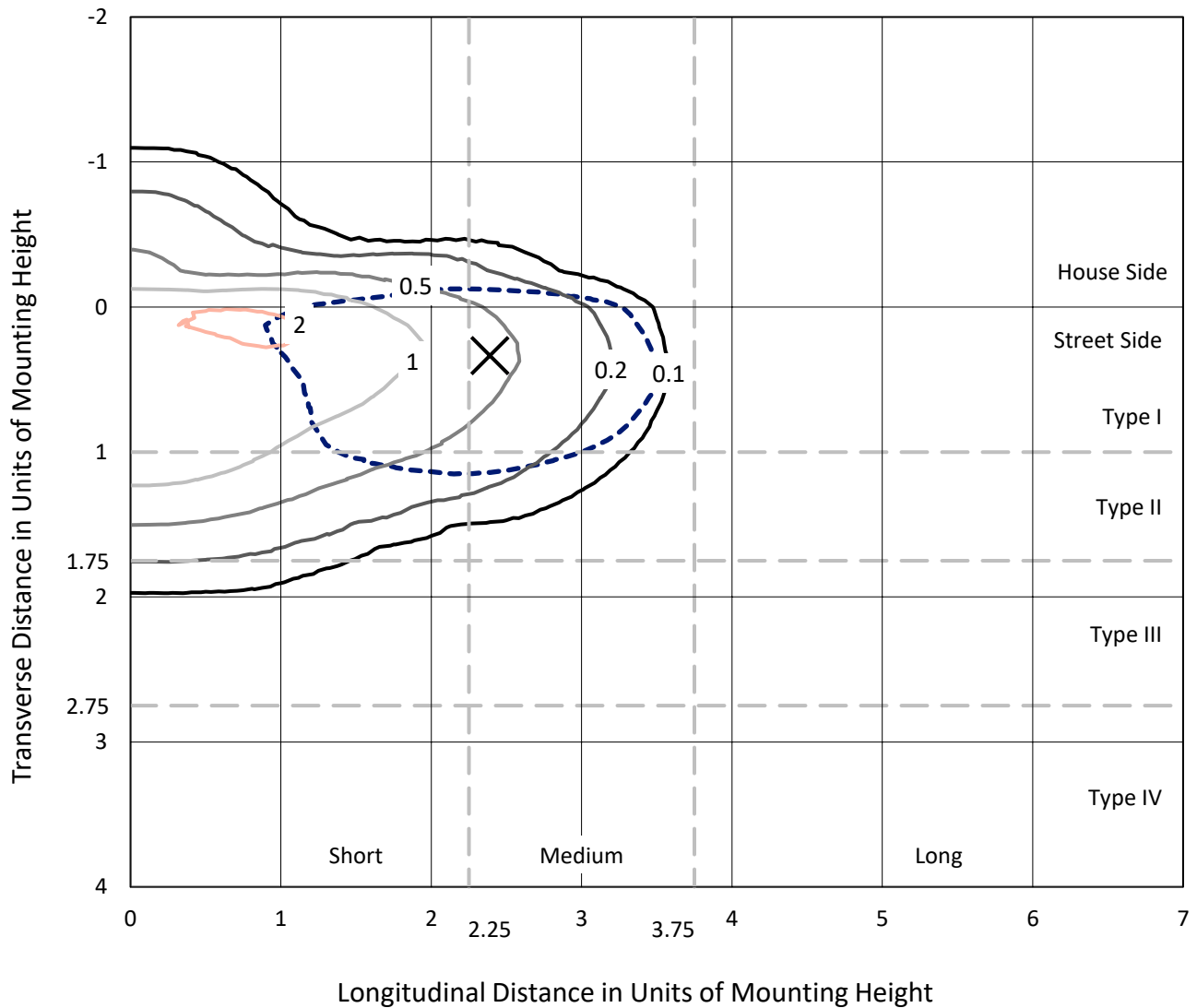
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939304
 CATALOG NUMBER: GALN-SB1D-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

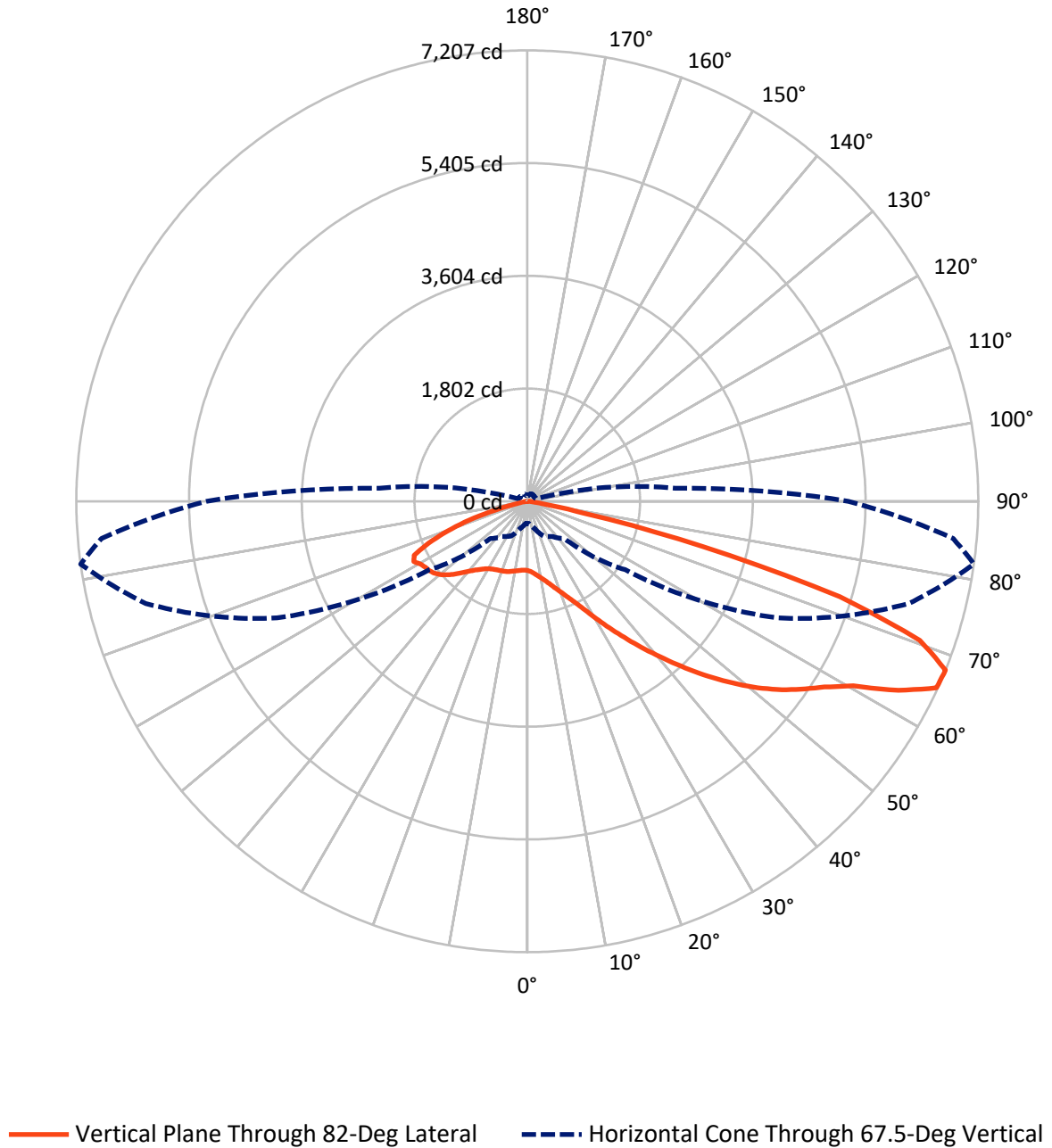
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P939304
CATALOG NUMBER: GALN-SB1D-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P939304
 CATALOG NUMBER: GALN-SB1D-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.8	0.0	1209.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5469.2	0.0	5469.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	6679.0	0.0	6679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.5
10°-20°	256.2	3.8
20°-30°	410.3	6.1
30°-40°	725.5	10.9
40°-50°	1271.2	19.0
50°-60°	1695.4	25.4
60°-70°	1578.4	23.6
70°-80°	605.8	9.1
80°-90°	37.6	0.6
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°	6679.0	100.0
0°-180°	6679.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939304

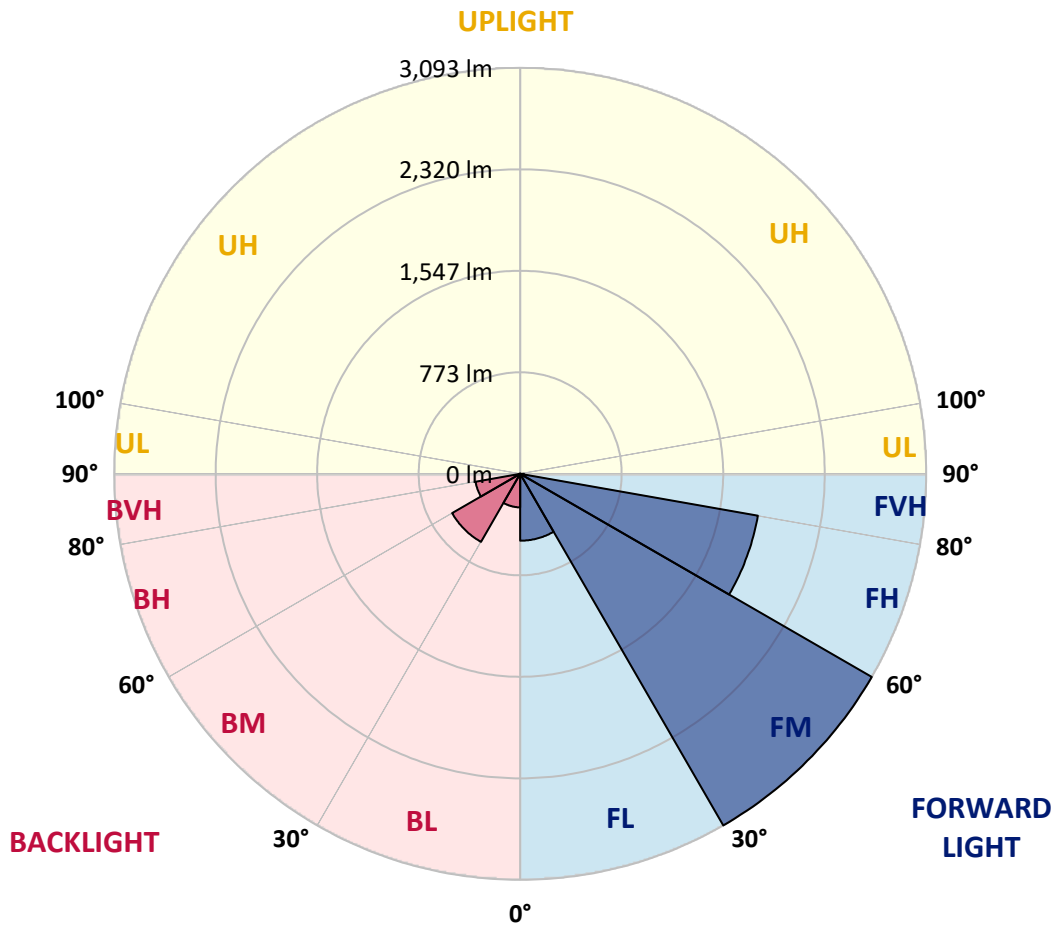
CATALOG NUMBER: GALN-SB1D-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.5	7.6			
FM (30°-60°)	3093.4	46.3			
FH (60°-80°)	1838.8	27.5			G2/5000
FVH (80°-90°)	27.4	0.4			G1/100
BL (0°-30°)	255.5	3.8	B1/500		
BM (30°-60°)	598.7	9.0	B1/1000		
BH (60°-80°)	345.3	5.2	B1/500		G1/500
BVH (80°-90°)	10.3	0.2			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 II Medium



REPORT NUMBER: P939304

CATALOG NUMBER: GALN-SB1D-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
2.5°	1169.5	1176.2	1172.4	1170.4	1167.1	1162.3	1158.4	1146.4	1133.9	1125.7
5°	1193.0	1199.8	1199.3	1201.2	1203.6	1205.1	1204.1	1190.6	1172.8	1158.9
7.5°	1172.8	1180.5	1186.8	1196.4	1213.2	1231.0	1239.7	1236.8	1218.5	1199.3
10°	1115.6	1123.8	1138.7	1161.3	1196.9	1235.4	1267.6	1282.5	1270.9	1249.8
12.5°	1010.8	1019.0	1048.3	1097.3	1157.0	1223.8	1285.4	1325.3	1328.2	1307.0
15°	893.0	901.2	932.4	994.0	1084.8	1192.1	1295.0	1370.5	1396.0	1377.7
17.5°	819.9	827.1	850.7	900.2	994.9	1128.6	1291.6	1418.6	1476.8	1462.3
20°	797.8	804.0	815.1	849.7	928.6	1062.7	1269.5	1463.8	1563.8	1555.6
22.5°	821.3	827.1	830.5	845.9	895.4	1019.4	1241.6	1509.9	1664.8	1665.7
25°	875.7	881.4	877.6	887.2	908.8	1006.0	1231.0	1564.3	1791.7	1802.3
27.5°	965.1	965.6	956.5	956.0	959.3	1026.2	1242.1	1622.5	1951.9	1971.6
30°	1144.5	1137.3	1102.2	1064.2	1046.9	1086.8	1272.9	1691.2	2140.8	2175.9
32.5°	1421.0	1410.4	1346.0	1255.1	1163.7	1184.4	1328.2	1769.6	2346.7	2410.1
35°	1721.0	1718.2	1650.8	1515.7	1356.1	1323.4	1418.1	1872.5	2571.2	2672.2
37.5°	1999.9	1998.5	1960.0	1800.9	1606.6	1517.1	1562.4	2007.2	2811.7	2957.8
40°	2254.8	2259.1	2220.7	2078.3	1882.6	1765.8	1758.5	2173.5	3079.0	3269.0
42.5°	2475.0	2479.9	2440.9	2335.6	2155.3	2040.8	1999.5	2377.4	3340.1	3603.2
45°	2624.6	2654.4	2648.6	2564.5	2435.1	2316.4	2288.9	2633.2	3637.8	3957.6
47.5°	2666.9	2694.3	2737.6	2749.1	2670.3	2553.4	2586.1	2941.5	3938.8	4312.5
50°	2562.6	2588.0	2678.0	2797.7	2852.5	2816.5	2875.1	3271.8	4247.1	4666.4
52.5°	2356.7	2382.7	2496.2	2685.7	2909.3	3022.8	3165.1	3597.4	4545.7	5001.5
55°	2059.1	2086.5	2232.2	2446.7	2801.1	3107.9	3407.0	3922.5	4819.3	5303.0
57.5°	1654.2	1674.4	1825.9	2125.9	2528.9	3023.2	3585.4	4277.3	5077.0	5599.3
60°	1078.1	1095.9	1271.9	1606.6	2077.8	2740.5	3621.0	4673.1	5419.4	5984.4
62.5°	717.0	729.0	833.3	1079.1	1463.3	2197.6	3412.7	4989.0	5921.4	6654.8
65°	491.9	504.0	608.3	779.5	945.4	1453.7	2814.1	4947.2	6376.4	7187.1
67.5°	351.0	361.1	449.6	611.2	684.3	844.4	1907.6	4412.5	6311.0	7207.3
70°	251.5	257.3	330.4	476.1	543.9	507.3	1060.8	3374.8	5525.7	6655.3
72.5°	176.0	177.9	229.4	362.6	438.1	370.3	504.9	2250.0	4179.3	5223.7
75°	119.3	121.7	154.4	265.9	351.5	282.8	267.4	1206.5	2453.4	2891.5
77.5°	73.1	74.1	99.5	181.8	263.0	215.4	172.2	511.2	949.2	931.9
80°	41.4	41.4	63.5	113.0	179.4	139.0	120.7	217.4	300.5	264.0
82.5°	23.1	23.6	46.2	70.2	118.8	82.2	66.4	100.5	129.8	114.9
85°	9.6	10.6	28.4	33.2	56.7	40.9	26.9	42.3	48.1	42.8
87.5°	1.0	1.4	8.7	6.3	6.7	8.2	3.8	8.2	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939304
 CATALOG NUMBER: GALN-SB1D-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1106.5	0°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
1122.8	2.5°	1113.7	1106.5	1088.2	1067.1	1039.2	1025.7	1007.4	994.9	984.3	985.3
1150.7	5°	1135.3	1117.1	1076.2	1025.2	961.7	916.5	868.5	835.3	808.3	802.6
1189.2	7.5°	1165.2	1136.3	1064.6	972.8	865.6	784.3	711.7	665.0	631.9	621.3
1235.8	10°	1203.6	1161.8	1049.7	906.9	752.6	649.2	571.3	534.7	512.1	504.4
1290.7	12.5°	1248.3	1191.1	1030.0	826.6	636.2	536.7	487.1	468.8	461.6	459.2
1358.0	15°	1304.6	1227.7	1000.2	731.4	537.6	467.9	446.7	444.3	445.3	444.3
1438.8	17.5°	1371.4	1267.6	951.6	633.3	471.3	432.8	425.1	427.0	429.4	428.9
1529.2	20°	1444.5	1307.0	889.6	546.3	426.1	407.8	403.5	405.4	407.3	406.3
1633.5	22.5°	1527.7	1349.3	820.8	478.5	395.8	384.7	379.9	380.4	380.4	378.4
1765.8	25°	1627.3	1396.0	748.7	430.4	372.7	364.0	358.2	356.3	353.4	347.7
1926.4	27.5°	1746.0	1445.5	679.5	396.7	354.4	346.2	339.5	334.7	327.5	317.9
2119.2	30°	1879.7	1505.6	620.8	375.6	340.0	331.8	324.1	316.9	306.3	294.3
2340.9	32.5°	2037.0	1570.0	578.0	361.6	327.0	318.3	309.2	300.5	289.0	277.0
2590.0	35°	2224.5	1647.9	553.0	352.0	316.9	305.4	295.3	285.6	277.0	266.4
2860.7	37.5°	2427.9	1730.7	545.3	347.2	310.2	292.4	280.8	274.1	273.1	266.9
3153.6	40°	2650.6	1828.8	551.1	344.3	302.9	279.9	267.4	265.9	268.3	257.3
3466.6	42.5°	2886.2	1945.1	560.7	340.9	292.9	267.4	255.3	255.3	253.4	238.0
3797.4	45°	3141.0	2079.3	570.3	332.8	280.8	254.9	245.7	242.4	234.2	219.3
4130.2	47.5°	3397.8	2215.9	577.5	317.9	266.4	244.3	236.1	228.4	216.4	202.9
4456.7	50°	3641.6	2338.5	569.8	295.7	250.1	234.2	225.5	214.9	202.0	192.8
4765.9	52.5°	3859.5	2444.7	537.1	269.8	232.7	223.6	215.9	204.9	194.3	184.7
5044.8	55°	4048.9	2530.8	479.4	245.2	217.4	214.5	206.8	192.8	178.4	170.2
5321.3	57.5°	4230.7	2596.2	407.3	225.0	203.4	204.4	192.8	180.3	166.9	158.2
5694.0	60°	4472.6	2683.7	334.2	206.3	188.5	191.4	178.9	169.7	152.9	141.9
6333.1	62.5°	4859.2	2819.8	265.4	183.2	171.2	172.2	166.9	155.8	135.6	122.6
6806.7	65°	5166.0	2769.8	209.2	158.2	151.5	152.9	152.9	140.9	119.3	104.3
6832.2	67.5°	5131.4	2371.7	166.9	133.7	132.7	133.7	137.0	126.9	105.8	93.8
6311.9	70°	4727.0	1886.5	133.7	111.1	115.4	113.0	122.6	115.9	95.2	83.2
4893.3	72.5°	3857.1	1358.9	101.9	91.8	88.5	92.3	110.6	104.3	79.3	65.9
2591.9	75°	2253.8	725.2	76.0	72.6	64.0	76.9	98.1	89.0	60.6	48.6
794.4	77.5°	733.8	252.9	55.8	53.4	47.6	62.0	83.7	75.0	49.5	38.5
232.7	80°	196.7	76.5	38.0	35.1	30.8	46.2	66.4	59.6	35.6	25.0
100.0	82.5°	78.9	32.2	22.1	19.7	16.8	31.7	52.4	48.1	26.4	15.9
31.3	85°	25.5	10.6	8.2	6.3	7.7	19.7	31.3	32.7	18.8	8.2
4.8	87.5°	3.4	1.4	1.4	1.9	1.4	3.4	9.6	9.1	5.3	1.0
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

180°
1106.5
975.7
789.6
610.7
498.7
457.8
443.8
428.0
405.9
377.5
346.7
316.9
293.3
277.5
265.4
266.4
257.7
238.0
218.8
202.4
191.4
183.7
169.3
157.2
140.4
121.7
102.9
91.8
81.7
64.4
47.1
37.0
24.5
15.9
6.3
0.0
0.0

F REPORT)