

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: P939302

Luminaire Tested: **GALN-SB1D-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9067 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

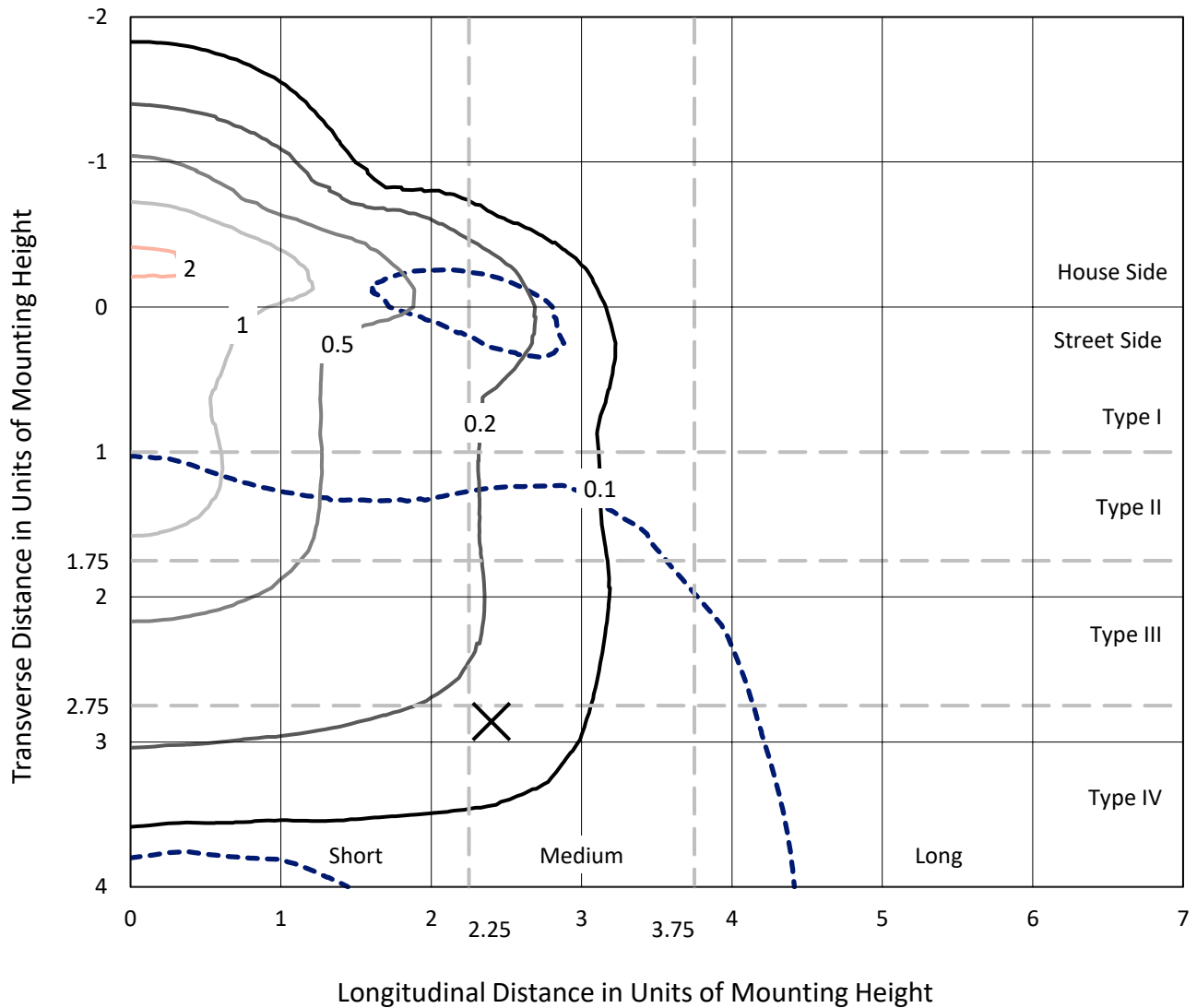
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939302
 CATALOG NUMBER: GALN-SB1D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

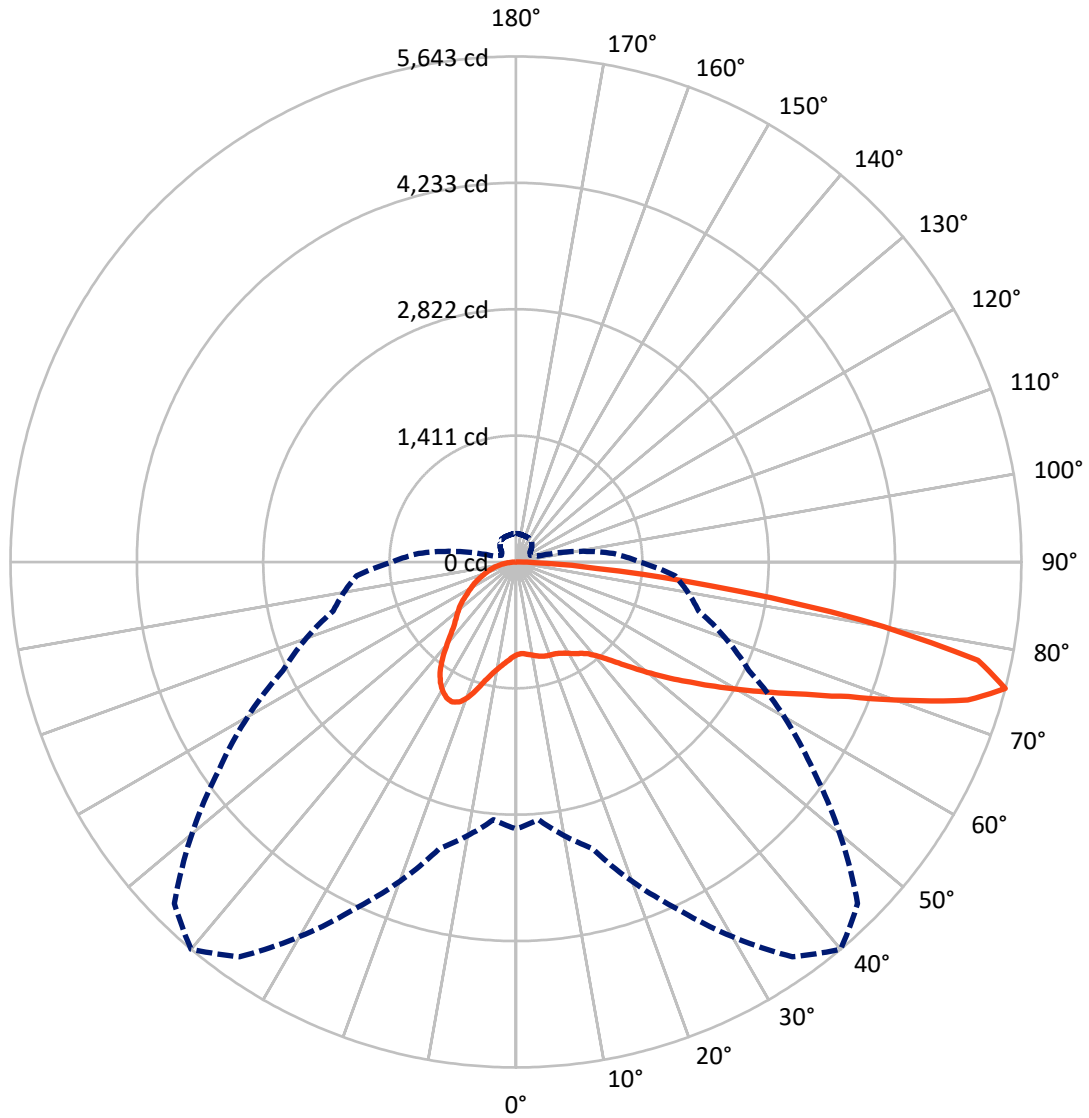
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P939302
CATALOG NUMBER: GALN-SB1D-830-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P939302
 CATALOG NUMBER: GALN-SB1D-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2809.3	0.0	2809.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6257.7	0.0	6257.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	9067.0	0.0	9067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	1.1
10°-20°	347.5	3.8
20°-30°	634.5	7.0
30°-40°	899.8	9.9
40°-50°	1215.1	13.4
50°-60°	1634.6	18.0
60°-70°	2074.7	22.9
70°-80°	1882.9	20.8
80°-90°	274.5	3.0
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°	9067.0	100.0
0°-180°	9067.0	100.0

Coefficient of Utilization



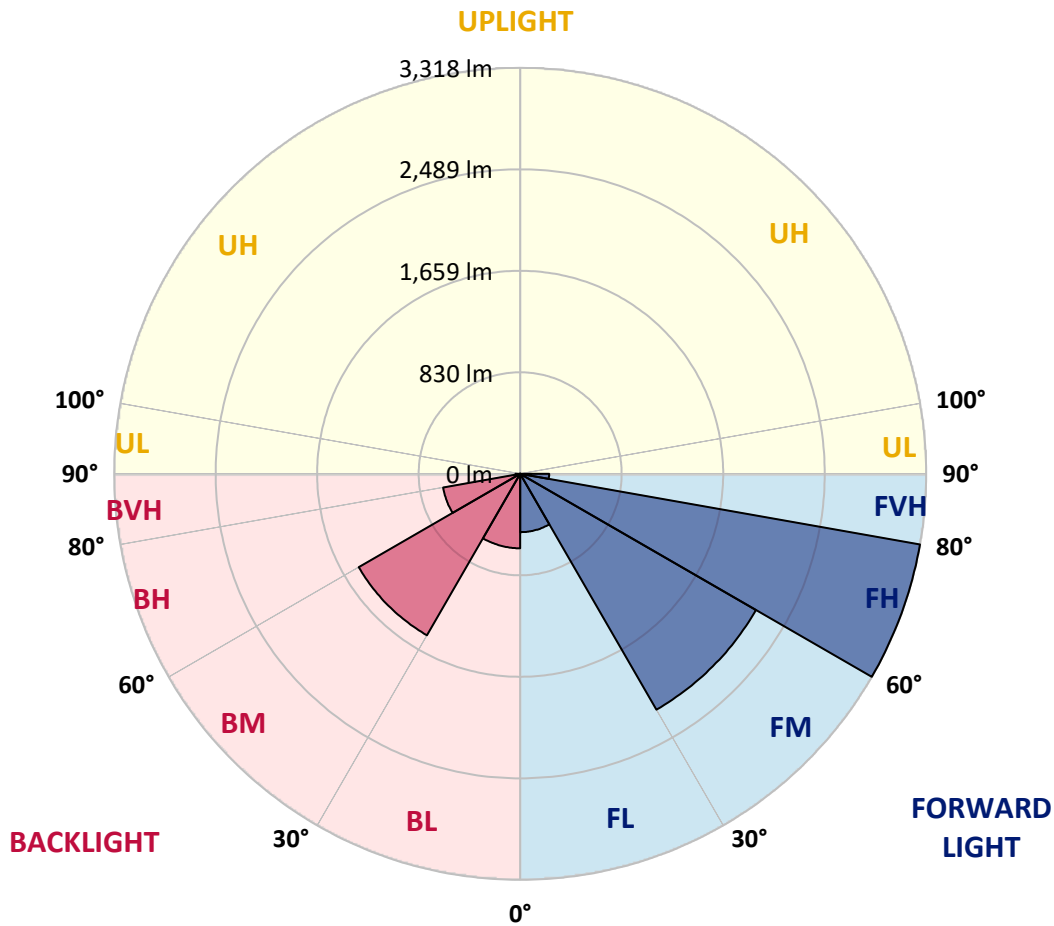
REPORT NUMBER: P939302
 CATALOG NUMBER: GALN-SB1D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.9	5.3			
FM (30°-60°)	2225.7	24.5			
FH (60°-80°)	3318.4	36.6			G2/5000
FVH (80°-90°)	236.7	2.6			G3/500
BL (0°-30°)	608.5	6.7	B2/1000		
BM (30°-60°)	1523.8	16.8	B2/2500		
BH (60°-80°)	639.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



REPORT NUMBER: P939302
 CATALOG NUMBER: GALN-SB1D-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8
2.5°	1021.0	1026.7	1025.3	1023.4	1023.4	1023.8	1023.4	1026.7	1030.1	1033.5
5°	1031.5	1037.3	1034.4	1032.0	1030.1	1029.6	1028.2	1027.7	1029.6	1033.9
7.5°	1052.2	1058.0	1053.7	1049.3	1045.5	1043.6	1041.6	1038.7	1037.3	1039.7
10°	1075.3	1081.1	1075.8	1068.1	1061.8	1059.4	1057.5	1054.6	1052.7	1054.1
12.5°	1098.4	1104.1	1096.9	1086.4	1078.2	1076.7	1074.3	1073.4	1072.9	1072.4
15°	1120.0	1124.8	1115.7	1103.2	1094.5	1092.1	1089.7	1091.2	1093.6	1096.5
17.5°	1136.9	1141.7	1128.2	1111.8	1103.7	1102.7	1101.3	1106.1	1112.8	1120.0
20°	1152.2	1157.0	1139.7	1117.6	1108.0	1108.0	1108.5	1118.6	1128.2	1138.8
22.5°	1173.9	1177.7	1156.6	1126.3	1112.3	1113.3	1117.1	1127.2	1139.3	1153.7
25°	1206.1	1209.0	1183.0	1142.6	1126.8	1129.6	1133.0	1137.8	1149.4	1166.2
27.5°	1258.0	1260.4	1226.3	1171.5	1147.4	1152.2	1157.0	1153.7	1159.0	1173.4
30°	1331.1	1332.6	1289.3	1216.7	1182.5	1184.9	1185.9	1172.0	1161.9	1173.4
32.5°	1417.7	1417.2	1365.8	1271.5	1222.5	1220.0	1211.9	1184.5	1160.9	1171.0
35°	1551.9	1546.6	1480.2	1348.4	1267.7	1252.7	1233.5	1198.4	1165.7	1168.6
37.5°	1774.0	1757.7	1665.8	1474.4	1335.0	1297.0	1268.6	1221.0	1176.3	1167.6
40°	2024.6	2003.9	1902.9	1647.1	1436.0	1374.9	1329.2	1253.2	1193.6	1172.0
42.5°	2321.8	2292.5	2183.8	1850.5	1563.9	1475.4	1406.6	1294.1	1219.1	1185.9
45°	2686.8	2647.8	2494.0	2079.9	1725.0	1607.2	1515.3	1356.1	1258.0	1212.8
47.5°	3055.6	3065.3	2846.5	2342.5	1918.3	1769.7	1651.4	1449.4	1314.8	1256.1
50°	3447.6	3454.3	3197.0	2633.4	2137.6	1953.4	1804.3	1553.8	1393.7	1317.7
52.5°	3753.4	3754.4	3515.4	2937.8	2366.0	2155.4	1969.3	1673.1	1485.0	1399.4
55°	3944.8	3942.4	3738.5	3225.9	2628.6	2367.5	2152.0	1808.7	1596.6	1495.6
57.5°	4083.8	4076.6	3892.4	3473.6	2908.5	2618.0	2358.8	1962.6	1728.4	1610.1
60°	4136.7	4132.4	3996.8	3687.6	3202.8	2895.0	2597.3	2134.7	1877.9	1745.2
62.5°	4156.9	4165.1	4099.2	3894.8	3517.8	3201.8	2859.4	2340.5	2046.2	1898.1
65°	4228.1	4243.0	4229.5	4166.0	3873.7	3561.1	3207.1	2585.3	2229.9	2062.1
67.5°	4369.0	4383.9	4389.7	4490.7	4308.4	4008.8	3640.9	2890.2	2444.9	2232.3
70°	4365.6	4361.3	4463.2	4748.9	4852.8	4628.7	4225.7	3265.3	2701.2	2373.7
72.5°	3973.7	3939.1	4180.0	4746.0	5305.8	5276.0	4939.8	3749.1	2922.4	2391.0
75°	2981.1	2888.8	3314.4	4277.1	5381.3	5643.4	5393.8	4049.2	2870.0	2112.6
77.5°	1274.9	1182.1	1683.6	3166.3	4816.2	5275.5	4977.3	3532.7	2291.0	1397.0
80°	333.7	333.3	508.8	1435.5	3275.4	3895.8	3417.8	2281.4	1309.0	499.2
82.5°	138.0	134.7	187.1	558.3	1600.4	2186.2	1784.1	1017.6	472.7	135.1
85°	51.5	51.0	90.9	192.8	564.6	901.7	652.6	260.2	117.8	65.9
87.5°	14.4	13.9	19.7	66.8	137.5	208.7	111.6	42.8	33.2	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939302
 CATALOG NUMBER: GALN-SB1D-830-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1036.8	0°	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8
1038.7	2.5°	1040.2	1042.6	1046.9	1050.3	1054.6	1059.4	1066.2	1070.5	1074.8	1077.7
1041.2	5°	1044.5	1049.8	1060.9	1071.9	1084.9	1096.9	1110.9	1121.0	1129.2	1131.6
1049.8	7.5°	1054.1	1062.8	1081.5	1100.3	1121.0	1140.7	1160.9	1178.2	1192.2	1197.4
1065.2	10°	1071.0	1082.5	1109.0	1135.4	1162.8	1193.1	1219.1	1244.1	1263.8	1272.0
1083.5	12.5°	1092.1	1106.6	1141.2	1177.7	1215.7	1257.6	1291.2	1322.0	1346.5	1357.6
1109.0	15°	1119.5	1138.3	1182.5	1231.6	1287.4	1345.6	1388.4	1422.5	1449.9	1463.4
1135.4	17.5°	1149.4	1174.4	1230.1	1304.2	1384.0	1460.5	1510.5	1535.5	1563.9	1576.9
1159.9	20°	1178.2	1209.0	1288.8	1396.5	1502.8	1584.1	1624.5	1631.2	1633.1	1634.6
1183.0	22.5°	1208.0	1249.4	1362.4	1512.9	1626.9	1683.2	1688.9	1660.1	1619.7	1600.9
1205.6	25°	1240.7	1295.5	1458.6	1641.3	1733.6	1740.4	1696.1	1625.9	1549.5	1514.4
1223.9	27.5°	1272.5	1348.9	1574.0	1763.9	1810.6	1751.4	1656.2	1556.7	1464.3	1427.3
1236.9	30°	1304.2	1410.0	1701.4	1871.2	1845.7	1724.0	1593.2	1482.1	1389.3	1350.4
1248.4	32.5°	1336.4	1481.2	1848.1	1948.6	1839.4	1665.8	1514.8	1398.5	1316.7	1275.8
1258.5	35°	1373.0	1568.7	1987.1	1990.9	1797.6	1580.2	1411.4	1298.4	1227.3	1194.6
1270.5	37.5°	1420.6	1679.8	2109.7	2001.5	1724.5	1454.7	1283.0	1180.1	1121.5	1106.6
1288.3	40°	1479.7	1813.5	2203.5	1984.7	1616.3	1302.3	1142.6	1060.4	1027.2	1030.6
1312.4	42.5°	1556.7	1963.0	2269.4	1941.4	1465.8	1145.0	1019.5	983.0	998.8	1012.3
1348.4	45°	1656.7	2118.4	2310.3	1867.8	1295.5	1011.8	946.9	955.6	967.6	969.0
1406.6	47.5°	1784.6	2275.6	2337.2	1756.7	1121.9	918.0	900.7	902.7	900.2	890.1
1493.7	50°	1944.3	2428.6	2361.2	1609.6	974.3	859.4	836.3	829.6	796.4	763.7
1609.6	52.5°	2126.1	2569.0	2371.3	1426.8	859.4	810.3	772.8	730.5	668.5	658.4
1755.3	55°	2328.0	2698.8	2345.4	1202.3	762.7	747.3	690.6	639.6	632.9	624.2
1947.2	57.5°	2569.5	2838.8	2292.5	951.7	663.6	673.7	618.4	624.2	612.2	598.7
2193.9	60°	2833.5	2983.5	2199.6	723.3	561.2	581.9	599.7	599.2	595.8	584.8
2454.0	62.5°	3071.0	3078.7	2016.9	554.0	471.3	510.7	559.3	558.8	555.9	549.7
2725.7	65°	3212.4	3064.3	1712.0	436.2	397.2	452.0	504.5	508.3	508.8	508.3
2930.1	67.5°	3187.4	2895.5	1293.6	347.2	336.2	392.4	450.1	455.4	459.3	460.2
2956.1	70°	2904.6	2524.7	843.5	277.0	281.8	340.0	398.7	404.0	407.3	411.2
2565.1	72.5°	2264.1	1856.3	482.8	224.1	234.2	294.8	347.7	353.9	355.9	363.1
1785.1	75°	1379.7	1091.6	260.6	176.5	192.4	252.0	297.2	304.4	307.8	316.4
876.7	77.5°	655.9	472.7	148.6	137.5	154.9	205.8	251.0	259.2	250.1	254.9
241.9	80°	221.7	175.5	93.8	104.8	118.3	160.6	201.0	209.2	190.0	189.0
80.3	82.5°	77.4	71.2	59.6	69.7	76.5	114.9	152.0	162.5	141.4	140.9
36.1	85°	30.3	28.9	33.2	38.0	45.7	70.7	100.0	105.3	87.0	70.2
10.6	87.5°	6.3	6.7	8.2	8.7	13.9	24.5	36.1	44.2	35.1	29.8
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>
1036.8
1075.8
1132.5
1197.9
1272.5
1357.6
1462.4
1576.4
1638.4
1606.2
1519.6
1431.6
1354.7
1281.1
1201.8
1117.1
1042.1
1024.8
978.6
897.8
768.0
661.7
625.7
596.3
580.9
547.3
508.3
461.2
413.1
366.0
317.4
251.0
187.1
134.2
69.2
27.4
0.0

F REPORT)