

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: P939472

Luminaire Tested: **GALN-SB2A-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939472  
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-SB2A-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

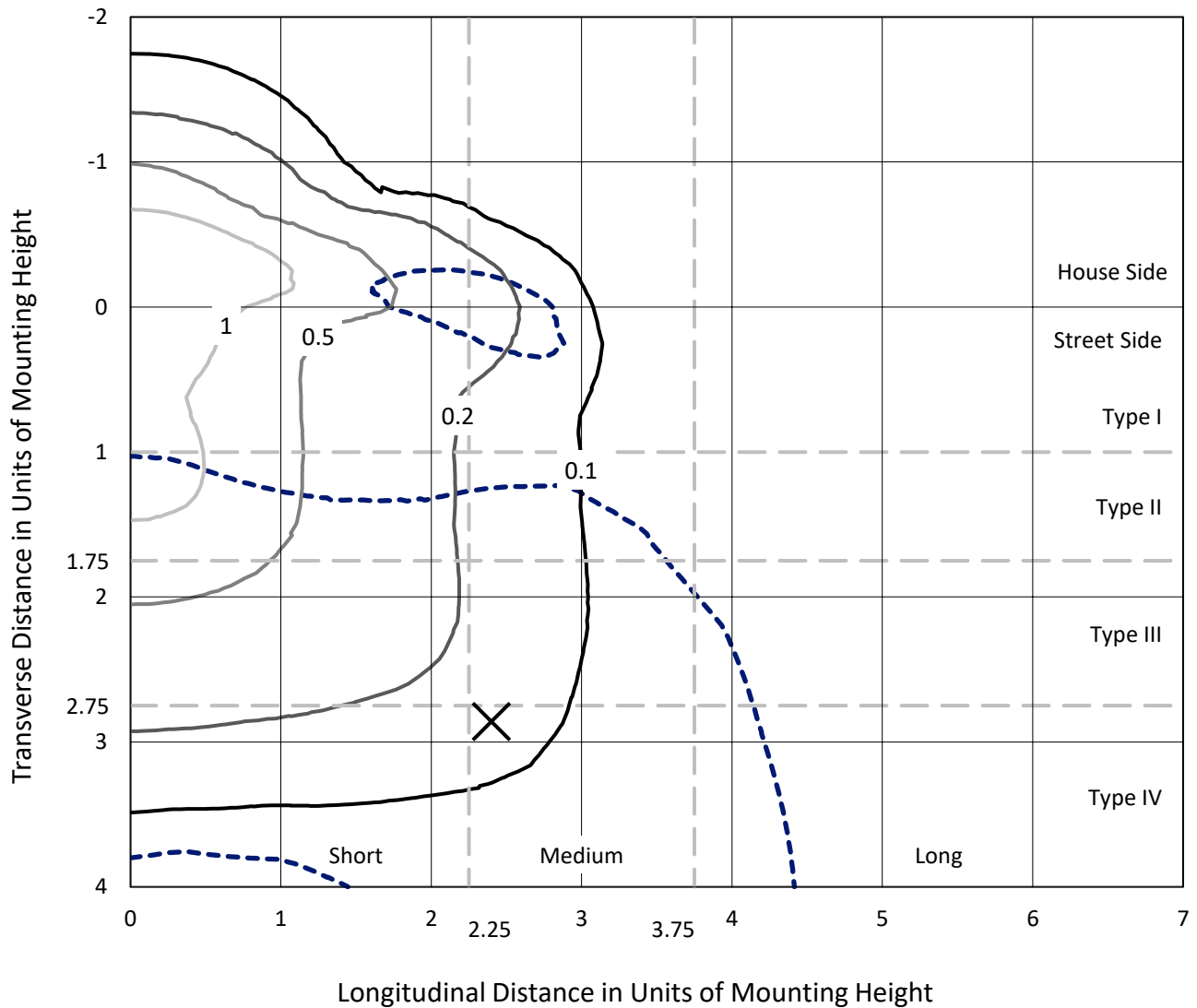
Lumens per Lamp: N/A  
Luminaire Lumens: 7990 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939472  
 CATALOG NUMBER: GALN-SB2A-830-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

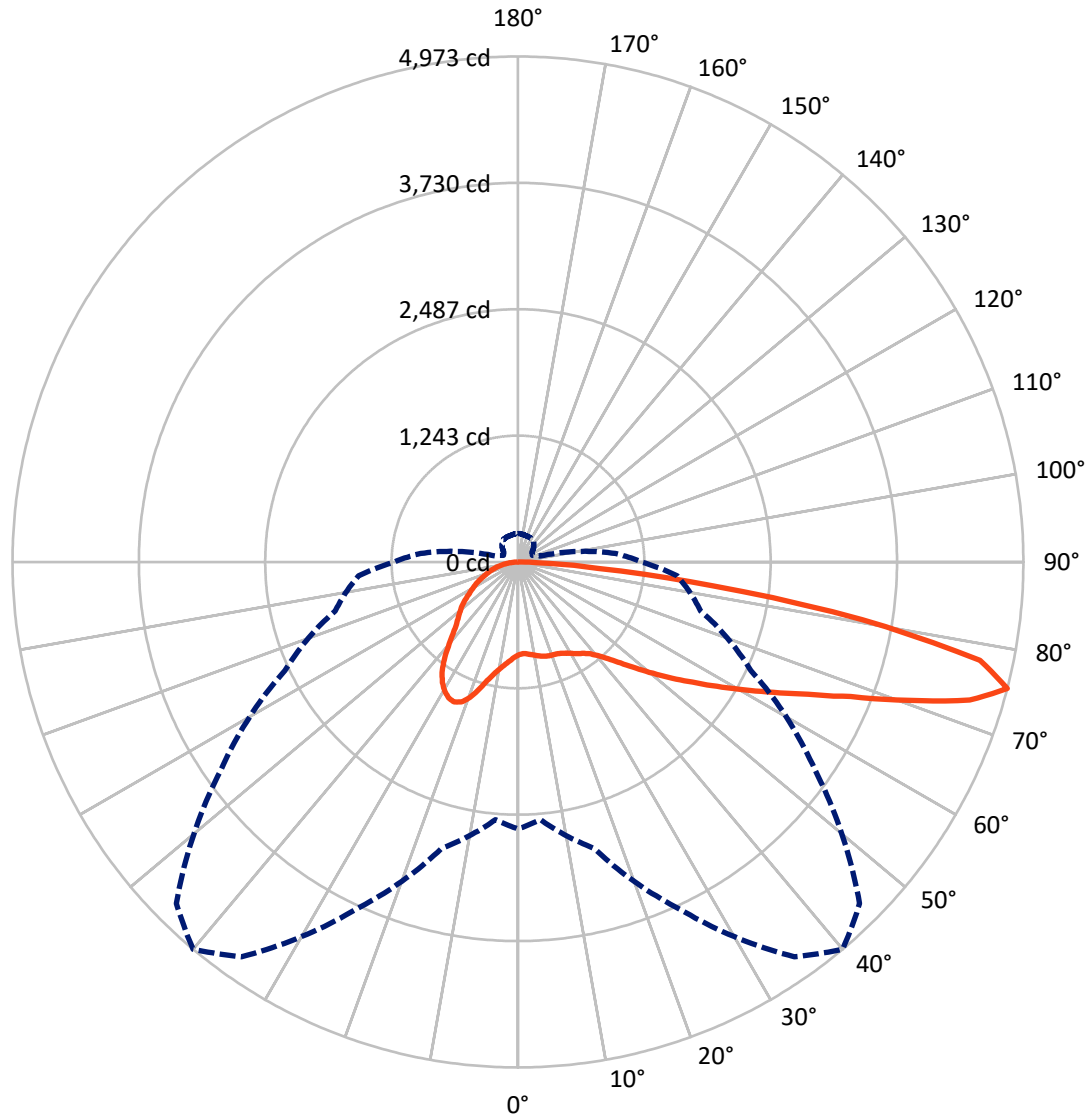
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P939472  
CATALOG NUMBER: GALN-SB2A-830-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P939472

CATALOG NUMBER: GALN-SB2A-830-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2475.6	0.0	2475.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	5514.4	0.0	5514.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	7990.0	0.0	7990.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	1.1
10°-20°	306.2	3.8
20°-30°	559.1	7.0
30°-40°	793.0	9.9
40°-50°	1070.7	13.4
50°-60°	1440.4	18.0
60°-70°	1828.2	22.9
70°-80°	1659.2	20.8
80°-90°	241.9	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°	7990.0	100.0
0°-180°	7990.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939472

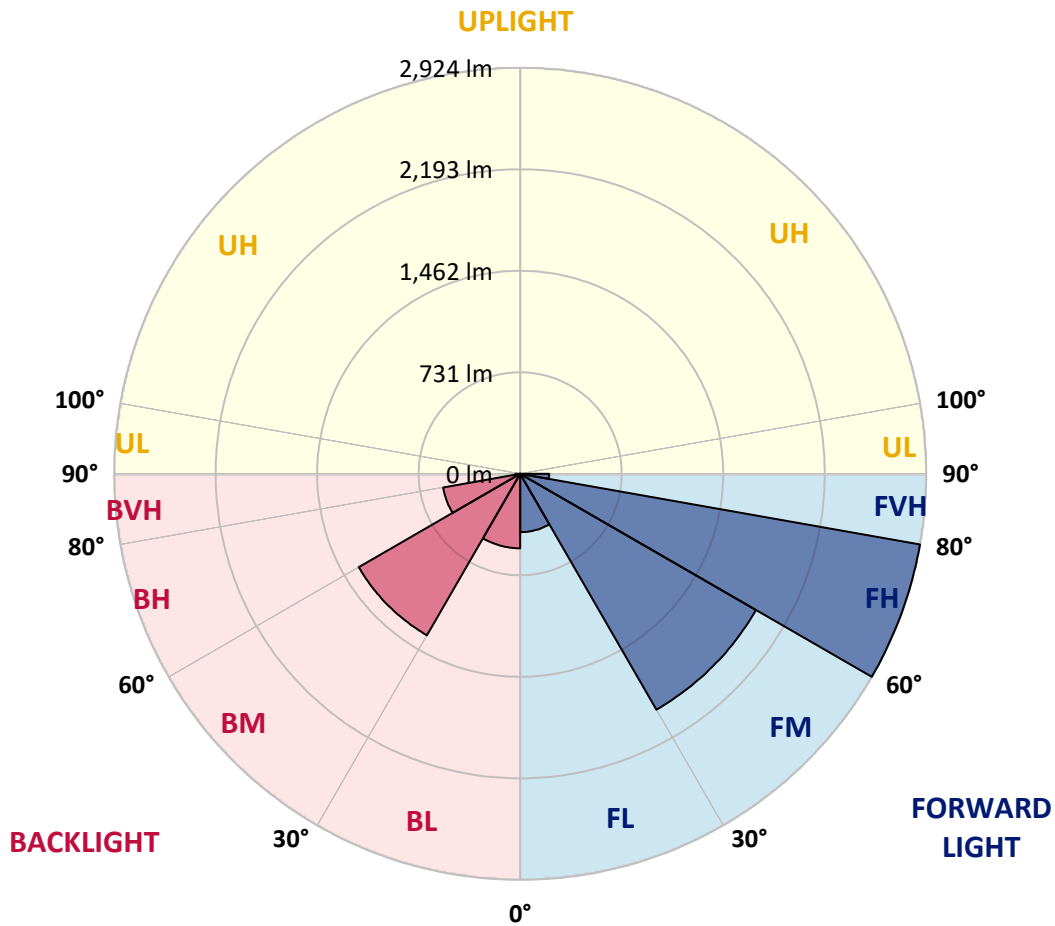
CATALOG NUMBER: GALN-SB2A-830-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.3	5.3			
FM (30°-60°)	1961.4	24.5			
FH (60°-80°)	2924.2	36.6			G2/5000
FVH (80°-90°)	208.6	2.6			G2/225
BL (0°-30°)	536.2	6.7	B2/1000		
BM (30°-60°)	1342.8	16.8	B2/2500		
BH (60°-80°)	563.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	33.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium



REPORT NUMBER: P939472  
 CATALOG NUMBER: GALN-SB2A-830-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7
2.5°	899.7	904.8	903.5	901.8	901.8	902.2	901.8	904.8	907.7	910.7
5°	909.0	914.1	911.5	909.4	907.7	907.3	906.0	905.6	907.3	911.1
7.5°	927.2	932.3	928.5	924.7	921.3	919.6	917.9	915.4	914.1	916.2
10°	947.6	952.7	948.0	941.2	935.7	933.6	931.9	929.3	927.7	928.9
12.5°	967.9	973.0	966.6	957.3	950.1	948.8	946.7	945.9	945.5	945.0
15°	987.0	991.2	983.2	972.1	964.5	962.4	960.3	961.6	963.7	966.2
17.5°	1001.8	1006.1	994.2	979.8	972.6	971.7	970.5	974.7	980.6	987.0
20°	1015.4	1019.6	1004.4	984.9	976.4	976.4	976.8	985.7	994.2	1003.5
22.5°	1034.4	1037.8	1019.2	992.5	980.2	981.0	984.4	993.3	1003.9	1016.6
25°	1062.8	1065.4	1042.5	1006.9	992.9	995.5	998.4	1002.7	1012.8	1027.7
27.5°	1108.6	1110.7	1080.6	1032.3	1011.1	1015.4	1019.6	1016.6	1021.3	1034.0
30°	1173.0	1174.3	1136.2	1072.2	1042.1	1044.2	1045.0	1032.7	1023.8	1034.0
32.5°	1249.3	1248.9	1203.5	1120.5	1077.2	1075.1	1067.9	1043.8	1023.0	1031.9
35°	1367.5	1362.9	1304.4	1188.3	1117.1	1103.9	1087.0	1056.1	1027.2	1029.8
37.5°	1563.3	1548.9	1468.0	1299.3	1176.4	1142.9	1117.9	1076.0	1036.6	1028.9
40°	1784.1	1765.9	1676.9	1451.4	1265.4	1211.6	1171.3	1104.4	1051.8	1032.7
42.5°	2046.0	2020.2	1924.4	1630.7	1378.1	1300.2	1239.6	1140.4	1074.3	1045.0
45°	2367.7	2333.3	2197.7	1832.8	1520.1	1416.3	1335.3	1195.1	1108.6	1068.8
47.5°	2692.7	2701.2	2508.3	2064.2	1690.5	1559.5	1455.3	1277.3	1158.6	1106.9
50°	3038.1	3044.0	2817.3	2320.6	1883.7	1721.4	1590.0	1369.2	1228.1	1161.2
52.5°	3307.6	3308.4	3097.8	2588.9	2085.0	1899.4	1735.4	1474.3	1308.6	1233.2
55°	3476.3	3474.1	3294.5	2842.7	2316.4	2086.3	1896.4	1593.8	1406.9	1318.0
57.5°	3598.7	3592.4	3430.1	3061.0	2563.0	2307.1	2078.6	1729.4	1523.1	1418.8
60°	3645.3	3641.5	3522.0	3249.5	2822.4	2551.1	2288.8	1881.2	1654.9	1537.9
62.5°	3663.1	3670.3	3612.3	3432.2	3099.9	2821.5	2519.8	2062.5	1803.2	1672.7
65°	3725.9	3739.0	3727.1	3671.2	3413.5	3138.1	2826.2	2278.2	1965.1	1817.2
67.5°	3850.0	3863.2	3868.3	3957.2	3796.6	3532.6	3208.4	2546.9	2154.5	1967.2
70°	3847.1	3843.3	3933.1	4184.8	4276.4	4078.9	3723.7	2877.5	2380.4	2091.8
72.5°	3501.7	3471.2	3683.5	4182.3	4675.6	4649.3	4353.1	3303.8	2575.3	2107.0
75°	2627.0	2545.6	2920.7	3769.1	4742.1	4973.0	4753.1	3568.2	2529.1	1861.7
77.5°	1123.4	1041.6	1483.6	2790.2	4244.1	4648.9	4386.1	3113.1	2018.9	1231.1
80°	294.1	293.7	448.4	1265.0	2886.4	3433.0	3011.8	2010.4	1153.5	439.9
82.5°	121.6	118.7	164.8	492.0	1410.3	1926.5	1572.2	896.7	416.6	119.1
85°	45.3	44.9	80.1	169.9	497.5	794.6	575.1	229.3	103.8	58.1
87.5°	12.7	12.3	17.4	58.9	121.2	183.9	98.3	37.7	29.2	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939472  
 CATALOG NUMBER: GALN-SB2A-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
913.7	0°	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7
915.4	2.5°	916.6	918.8	922.6	925.5	929.3	933.6	939.5	943.3	947.1	949.7
917.5	5°	920.4	925.1	934.9	944.6	956.0	966.6	978.9	987.8	995.0	997.2
925.1	7.5°	928.9	936.6	953.1	969.6	987.8	1005.2	1023.0	1038.3	1050.5	1055.2
938.7	10°	943.8	953.9	977.2	1000.5	1024.7	1051.4	1074.3	1096.3	1113.7	1120.9
954.8	12.5°	962.4	975.1	1005.6	1037.8	1071.3	1108.2	1137.8	1165.0	1186.6	1196.3
977.2	15°	986.6	1003.1	1042.1	1085.3	1134.5	1185.7	1223.4	1253.5	1277.7	1289.6
1000.5	17.5°	1012.8	1034.9	1084.0	1149.3	1219.6	1287.0	1331.1	1353.1	1378.1	1389.6
1022.2	20°	1038.3	1065.4	1135.7	1230.7	1324.3	1395.9	1431.5	1437.5	1439.2	1440.4
1042.5	22.5°	1064.5	1101.0	1200.6	1333.2	1433.6	1483.2	1488.3	1462.9	1427.3	1410.8
1062.4	25°	1093.3	1141.7	1285.3	1446.4	1527.7	1533.7	1494.7	1432.8	1365.4	1334.5
1078.5	27.5°	1121.3	1188.7	1387.0	1554.4	1595.5	1543.4	1459.5	1371.8	1290.4	1257.8
1090.0	30°	1149.3	1242.5	1499.3	1648.9	1626.5	1519.2	1404.0	1306.1	1224.3	1190.0
1100.1	32.5°	1177.7	1305.2	1628.6	1717.2	1621.0	1468.0	1334.9	1232.3	1160.3	1124.3
1109.0	35°	1209.9	1382.4	1751.1	1754.4	1584.1	1392.5	1243.8	1144.2	1081.5	1052.7
1119.6	37.5°	1251.8	1480.3	1859.1	1763.8	1519.7	1281.9	1130.6	1040.0	988.3	975.1
1135.3	40°	1304.0	1598.1	1941.8	1748.9	1424.3	1147.6	1006.9	934.4	905.2	908.2
1156.5	42.5°	1371.8	1729.9	1999.8	1710.8	1291.7	1009.0	898.4	866.2	880.2	892.1
1188.3	45°	1459.9	1866.7	2035.8	1646.0	1141.7	891.6	834.4	842.0	852.6	853.9
1239.6	47.5°	1572.6	2005.3	2059.6	1548.1	988.7	809.0	793.7	795.4	793.3	784.4
1316.3	50°	1713.3	2140.1	2080.8	1418.4	858.6	757.3	737.0	731.0	701.8	673.0
1418.4	52.5°	1873.5	2263.8	2089.7	1257.4	757.3	714.1	681.0	643.7	589.1	580.2
1546.8	55°	2051.5	2378.2	2066.8	1059.4	672.1	658.6	608.5	563.6	557.7	550.1
1715.9	57.5°	2264.3	2501.6	2020.2	838.7	584.8	593.7	545.0	550.1	539.5	527.6
1933.3	60°	2496.9	2629.1	1938.4	637.4	494.5	512.8	528.5	528.0	525.1	515.3
2162.5	62.5°	2706.3	2713.0	1777.3	488.2	415.3	450.1	492.9	492.4	489.9	484.4
2402.0	65°	2830.8	2700.3	1508.7	384.4	350.0	398.4	444.5	447.9	448.4	447.9
2582.1	67.5°	2808.8	2551.6	1140.0	306.0	296.2	345.8	396.7	401.3	404.7	405.6
2605.0	70°	2559.6	2224.8	743.3	244.1	248.3	299.6	351.3	356.0	358.9	362.3
2260.4	72.5°	1995.2	1635.8	425.5	197.5	206.4	259.8	306.4	311.9	313.6	320.0
1573.1	75°	1215.8	962.0	229.7	155.5	169.5	222.1	261.9	268.3	271.2	278.8
772.5	77.5°	578.0	416.6	130.9	121.2	136.5	181.4	221.2	228.4	220.4	224.6
213.2	80°	195.4	154.7	82.6	92.4	104.2	141.5	177.1	184.3	167.4	166.5
70.8	82.5°	68.2	62.7	52.5	61.4	67.4	101.3	133.9	143.2	124.6	124.2
31.8	85°	26.7	25.4	29.2	33.5	40.3	62.3	88.1	92.8	76.7	61.9
9.3	87.5°	5.5	5.9	7.2	7.6	12.3	21.6	31.8	39.0	30.9	26.3
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

180°  
913.7  
948.0  
998.0  
1055.6  
1121.3  
1196.3  
1288.7  
1389.1  
1443.8  
1415.4  
1339.1  
1261.6  
1193.8  
1128.9  
1059.0  
984.4  
918.3  
903.1  
862.4  
791.2  
676.8  
583.1  
551.3  
525.5  
511.9  
482.3  
447.9  
406.4  
364.0  
322.5  
279.7  
221.2  
164.8  
118.2  
61.0  
24.2  
0.0

F REPORT)