

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: P947307

Luminaire Tested: **GALN-SB2C-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2C-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10832 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

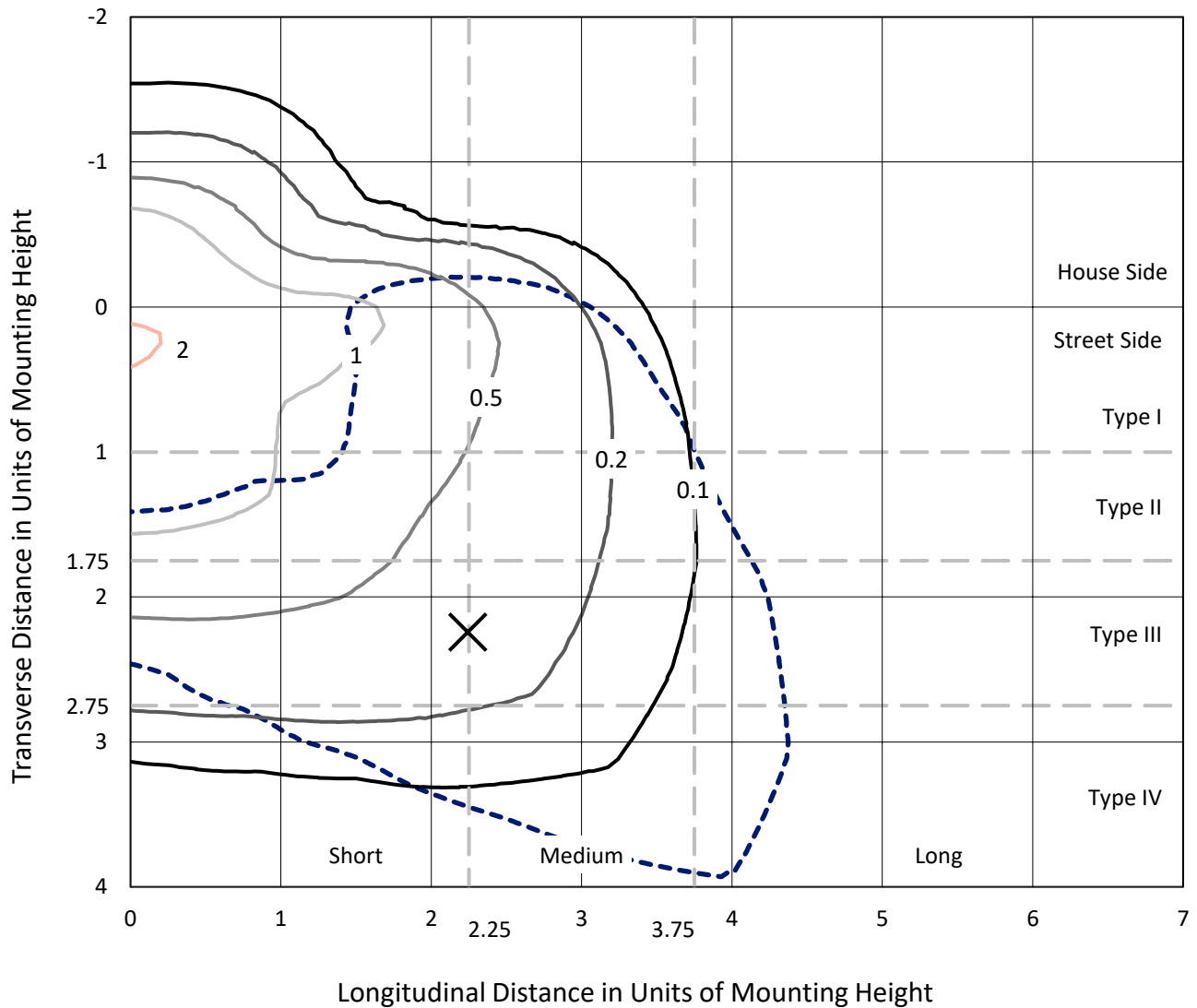
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947307
 CATALOG NUMBER: GALN-SB2C-940-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

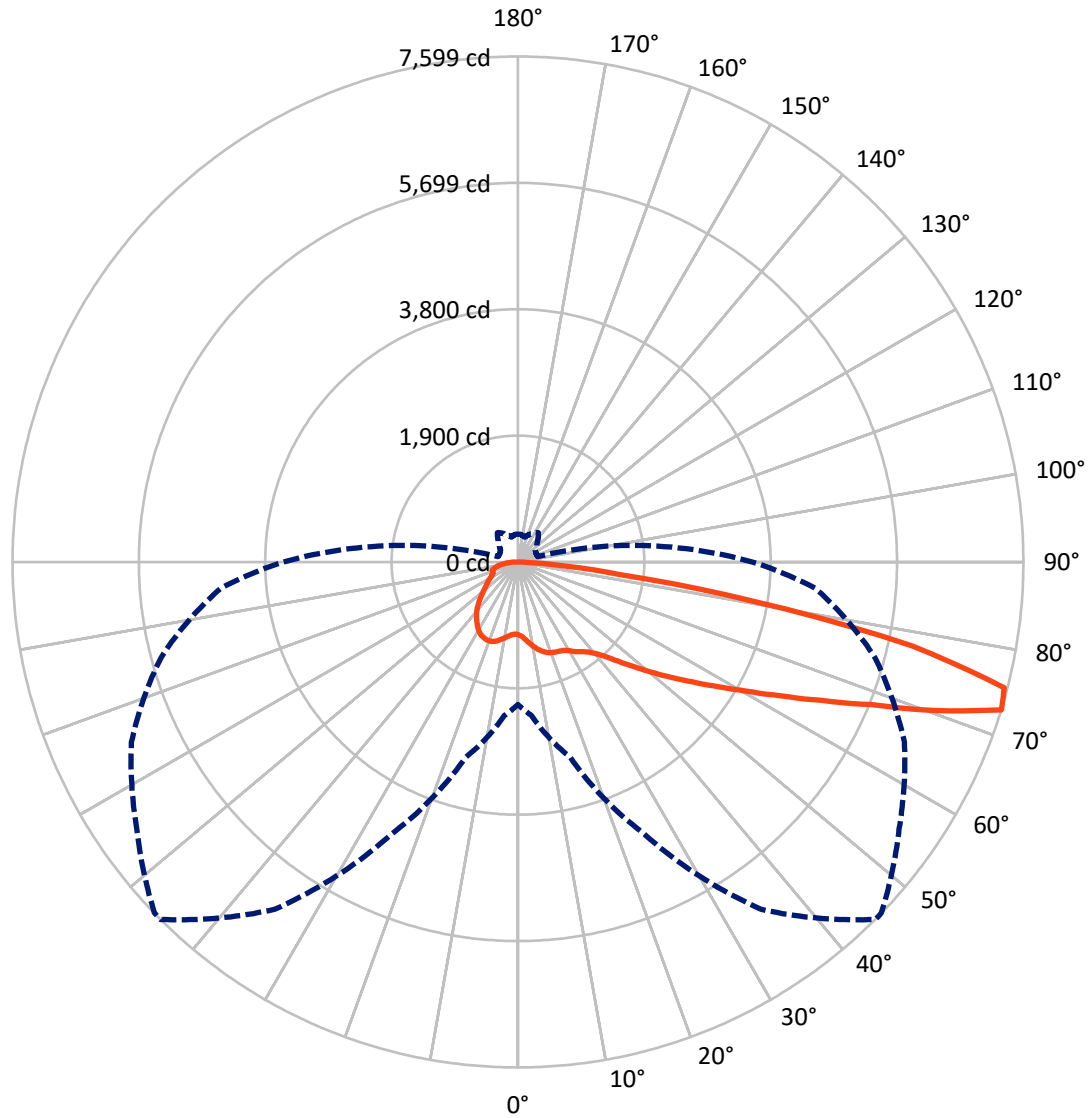
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P947307
CATALOG NUMBER: GALN-SB2C-940-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P947307
 CATALOG NUMBER: GALN-SB2C-940-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2448.7	0.0	2448.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8383.2	0.0	8383.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	10832.0	0.0	10832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	1.0
10°-20°	370.8	3.4
20°-30°	645.1	6.0
30°-40°	924.7	8.5
40°-50°	1302.1	12.0
50°-60°	1994.4	18.4
60°-70°	2889.2	26.7
70°-80°	2307.2	21.3
80°-90°	287.3	2.7
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°	10832.0	100.0
0°-180°	10832.0	100.0

Coefficient of Utilization



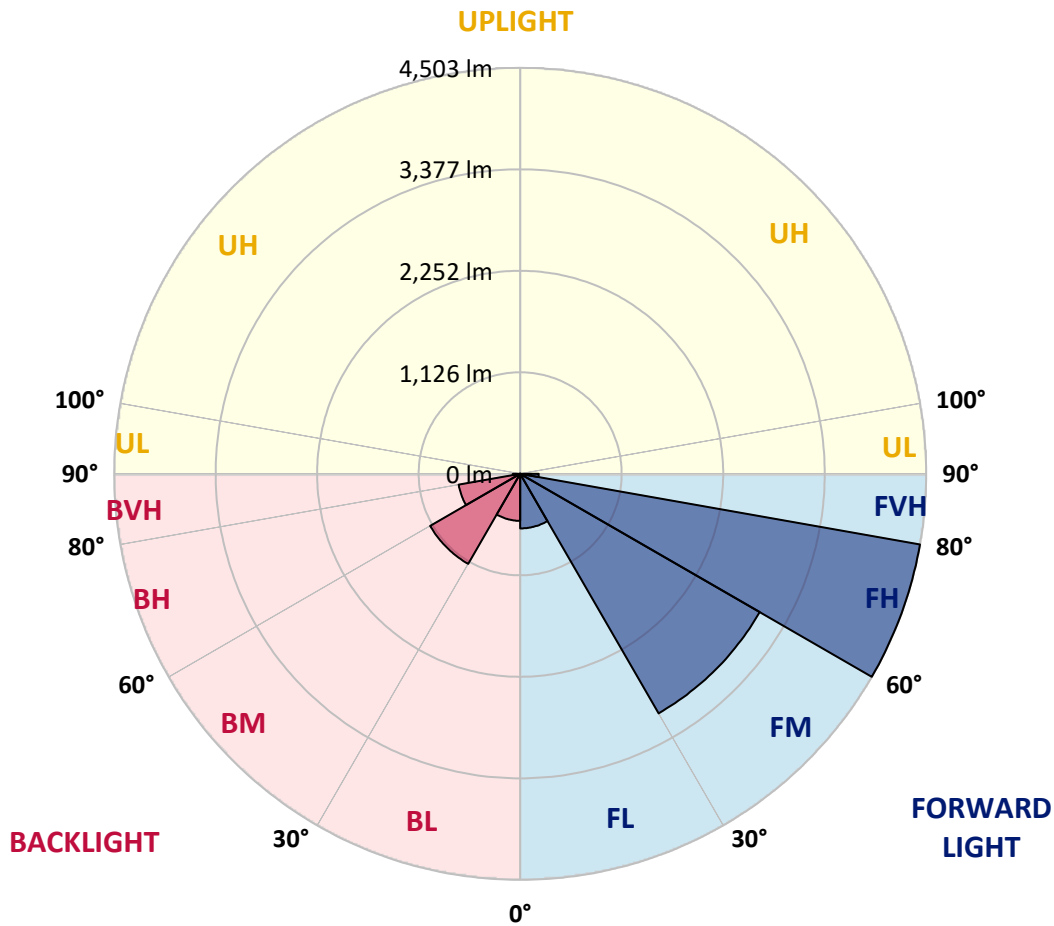
REPORT NUMBER: P947307
 CATALOG NUMBER: GALN-SB2C-940-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.7	5.6			
FM (30°-60°)	3068.2	28.3			
FH (60°-80°)	4503.2	41.6			G2/5000
FVH (80°-90°)	206.1	1.9			G2/225
BL (0°-30°)	521.4	4.8	B2/1000		
BM (30°-60°)	1153.0	10.6	B2/2500		
BH (60°-80°)	693.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	81.2	0.7			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 Short



REPORT NUMBER: P947307
 CATALOG NUMBER: GALN-SB2C-940-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7
2.5°	1135.5	1143.0	1136.1	1129.8	1127.0	1119.6	1119.0	1114.4	1111.6	1103.6
5°	1214.9	1224.6	1213.1	1200.6	1189.2	1170.9	1168.6	1155.5	1140.7	1123.6
7.5°	1304.4	1313.0	1299.9	1281.0	1261.1	1230.8	1230.3	1206.3	1182.9	1153.8
10°	1382.6	1394.0	1376.3	1350.7	1325.6	1291.3	1287.3	1259.9	1230.3	1192.6
12.5°	1451.7	1459.6	1442.5	1411.1	1382.0	1347.8	1342.7	1312.4	1279.3	1236.5
15°	1506.4	1516.7	1493.9	1460.2	1429.4	1395.7	1391.2	1363.8	1330.7	1285.6
17.5°	1542.4	1550.9	1527.6	1489.9	1460.2	1432.3	1428.8	1406.0	1376.9	1331.3
20°	1556.1	1565.2	1540.7	1502.4	1475.1	1453.4	1451.7	1435.1	1415.1	1373.5
22.5°	1569.8	1578.3	1546.4	1506.4	1482.5	1468.8	1468.2	1457.4	1449.4	1415.1
25°	1625.1	1627.4	1584.6	1527.0	1492.7	1480.8	1480.2	1479.6	1483.0	1456.2
27.5°	1673.1	1672.5	1636.0	1581.8	1528.7	1503.6	1503.0	1508.7	1519.6	1497.3
30°	1743.2	1737.0	1693.6	1637.1	1588.6	1549.8	1546.4	1541.2	1549.8	1532.1
32.5°	1892.2	1872.2	1802.0	1701.6	1638.3	1608.6	1604.0	1572.1	1575.5	1564.6
35°	2105.6	2079.3	1985.8	1823.7	1699.9	1657.7	1655.4	1614.9	1608.0	1598.3
37.5°	2359.5	2327.0	2218.0	2000.6	1806.0	1714.7	1711.3	1674.8	1646.8	1636.5
40°	2614.6	2573.5	2483.3	2216.3	1962.4	1810.0	1799.2	1743.8	1711.9	1694.7
42.5°	2862.2	2828.0	2751.0	2458.2	2155.2	1949.2	1925.3	1830.6	1806.6	1790.6
45°	3081.3	3050.5	2994.0	2716.7	2381.2	2138.7	2115.3	1960.7	1953.2	1953.2
47.5°	3259.4	3252.5	3192.6	2980.4	2647.7	2354.4	2313.9	2141.5	2161.5	2192.3
50°	3456.8	3438.0	3374.1	3240.0	2960.9	2601.5	2568.4	2363.5	2438.3	2522.7
52.5°	3638.3	3648.5	3577.2	3510.5	3314.7	2877.1	2818.9	2625.4	2786.9	2926.7
55°	3824.9	3825.4	3805.5	3796.3	3685.6	3181.8	3117.9	2940.4	3197.2	3370.7
57.5°	4000.0	4001.2	4030.9	4111.3	4115.9	3533.3	3460.8	3327.3	3653.1	3830.0
60°	4156.4	4164.4	4245.4	4433.7	4494.2	3936.1	3867.7	3784.4	4124.4	4302.5
62.5°	4208.9	4238.0	4418.3	4685.9	4868.0	4430.3	4363.0	4313.3	4619.7	4785.2
65°	4119.9	4186.6	4535.3	4894.2	5252.6	5017.5	4950.7	4896.5	5134.4	5290.2
67.5°	3901.3	3987.5	4528.4	5112.8	5719.3	5723.9	5661.7	5534.4	5686.2	5746.1
70°	3325.6	3454.5	4129.6	5194.4	6255.1	6690.0	6630.0	6302.5	6236.9	5947.0
72.5°	2142.7	2316.1	3040.8	4522.7	6374.4	7599.0	7595.5	6995.8	6410.9	5556.7
75°	781.7	887.9	1412.9	2838.8	5350.7	7552.7	7575.0	6877.1	5852.3	4292.2
77.5°	284.7	311.6	461.1	1091.0	3290.8	6060.0	6106.2	5497.9	4165.5	2154.1
80°	149.5	164.3	236.2	423.4	1410.0	3598.9	3671.4	3267.4	1957.8	648.8
82.5°	82.7	89.6	132.4	230.0	635.1	1539.0	1582.3	1290.7	688.7	275.0
85°	44.5	47.4	62.2	125.5	310.4	533.5	545.5	385.7	274.5	161.5
87.5°	13.1	16.0	20.5	39.9	121.5	119.8	122.7	76.5	108.4	81.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947307
 CATALOG NUMBER: GALN-SB2C-940-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1092.7	0°	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7
1101.3	2.5°	1097.9	1096.2	1089.9	1087.0	1083.6	1083.0	1085.9	1086.5	1087.0	1087.6
1113.9	5°	1108.1	1102.4	1096.7	1093.3	1094.4	1095.0	1100.7	1104.7	1107.6	1109.9
1137.2	7.5°	1128.1	1123.6	1113.9	1113.3	1115.0	1120.1	1127.5	1136.7	1141.8	1145.8
1167.5	10°	1157.8	1149.2	1137.8	1139.5	1143.0	1150.4	1165.8	1173.2	1181.8	1189.2
1204.6	12.5°	1188.0	1180.6	1167.5	1168.6	1174.3	1187.5	1202.3	1211.4	1217.1	1222.8
1244.5	15°	1227.4	1214.3	1200.0	1200.0	1210.3	1224.6	1231.4	1238.8	1242.2	1248.5
1287.3	17.5°	1267.9	1250.8	1232.0	1230.8	1243.4	1250.2	1254.2	1255.4	1256.5	1263.4
1329.0	20°	1308.4	1289.6	1262.8	1260.5	1263.4	1262.2	1261.6	1260.5	1262.2	1270.8
1371.8	22.5°	1348.4	1326.7	1289.6	1279.3	1271.3	1260.5	1259.9	1259.4	1260.5	1269.1
1418.0	25°	1395.2	1368.9	1319.3	1288.5	1261.6	1246.8	1248.5	1249.1	1250.2	1257.1
1465.9	27.5°	1446.0	1416.9	1346.7	1285.6	1237.1	1226.8	1224.0	1225.7	1229.7	1240.5
1513.9	30°	1496.7	1462.5	1371.8	1274.2	1206.3	1192.0	1182.9	1186.9	1199.4	1210.3
1555.5	32.5°	1543.0	1508.7	1391.7	1249.1	1166.9	1144.7	1132.7	1137.8	1150.4	1154.4
1601.7	35°	1597.2	1558.4	1400.3	1209.1	1124.1	1089.9	1073.9	1066.5	1072.8	1068.8
1655.9	37.5°	1657.7	1617.1	1399.2	1156.6	1073.9	1034.5	1012.3	984.3	971.2	957.5
1735.8	40°	1747.2	1689.0	1385.5	1093.3	1011.7	975.8	935.8	888.5	858.8	832.0
1864.8	42.5°	1869.4	1788.9	1360.4	1023.7	941.5	907.9	853.6	798.3	751.5	707.0
2060.5	45°	2051.4	1919.6	1329.0	949.5	865.6	832.5	773.8	711.6	658.5	601.4
2338.4	47.5°	2313.9	2095.3	1299.3	865.1	785.7	755.5	702.4	644.8	582.0	526.7
2740.1	50°	2674.5	2347.5	1271.9	782.9	707.0	684.2	641.9	583.2	519.8	475.3
3210.9	52.5°	3133.3	2690.5	1260.5	703.6	633.4	624.8	591.2	536.4	476.5	438.8
3759.8	55°	3660.0	3100.8	1260.5	627.7	568.9	571.8	548.4	497.6	445.7	412.0
4325.9	57.5°	4197.5	3516.2	1237.7	557.5	514.1	526.1	511.3	466.8	420.0	385.2
4921.0	60°	4692.8	3864.2	1145.2	493.6	465.6	484.5	474.8	436.5	379.5	350.4
5418.6	62.5°	5073.4	4060.5	967.2	442.8	425.7	447.4	442.2	396.6	372.0	360.1
5827.2	65°	5264.0	4028.6	739.5	397.7	392.0	425.7	414.8	413.1	393.7	380.0
5960.1	67.5°	5147.0	3753.5	536.4	364.6	372.6	405.7	447.4	454.2	418.3	391.4
5585.8	70°	4634.0	3256.0	399.4	333.2	348.1	406.3	510.1	475.3	410.3	378.9
4479.9	72.5°	3525.3	2428.0	309.8	300.1	316.1	409.1	538.1	465.6	387.5	418.8
2790.9	75°	2016.0	1333.0	248.8	259.6	276.2	382.3	523.8	440.5	369.8	384.6
1105.9	77.5°	768.6	512.4	205.4	219.7	222.0	333.8	501.0	438.8	352.1	343.5
331.5	80°	266.5	200.3	170.0	174.6	171.8	296.7	480.5	381.7	288.2	257.9
136.9	82.5°	109.0	99.9	134.7	129.0	122.1	230.5	388.0	312.1	235.7	208.3
66.2	85°	47.4	63.3	89.0	78.2	70.8	159.8	311.0	264.2	199.1	171.8
21.7	87.5°	9.7	24.0	37.7	35.4	36.5	106.7	220.8	187.7	140.9	105.6
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>
1092.7
1089.9
1111.0
1146.9
1187.5
1225.1
1250.8
1265.6
1274.2
1274.8
1266.2
1251.4
1222.3
1168.6
1081.3
966.1
833.7
703.0
594.6
520.4
472.5
436.0
408.6
379.5
345.8
356.1
375.5
386.9
373.8
415.4
384.6
313.3
249.4
206.0
171.2
82.7
0.0

F REPORT)