

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: P946863

Luminaire Tested: **GALN-SB2B-850-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2B-850-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

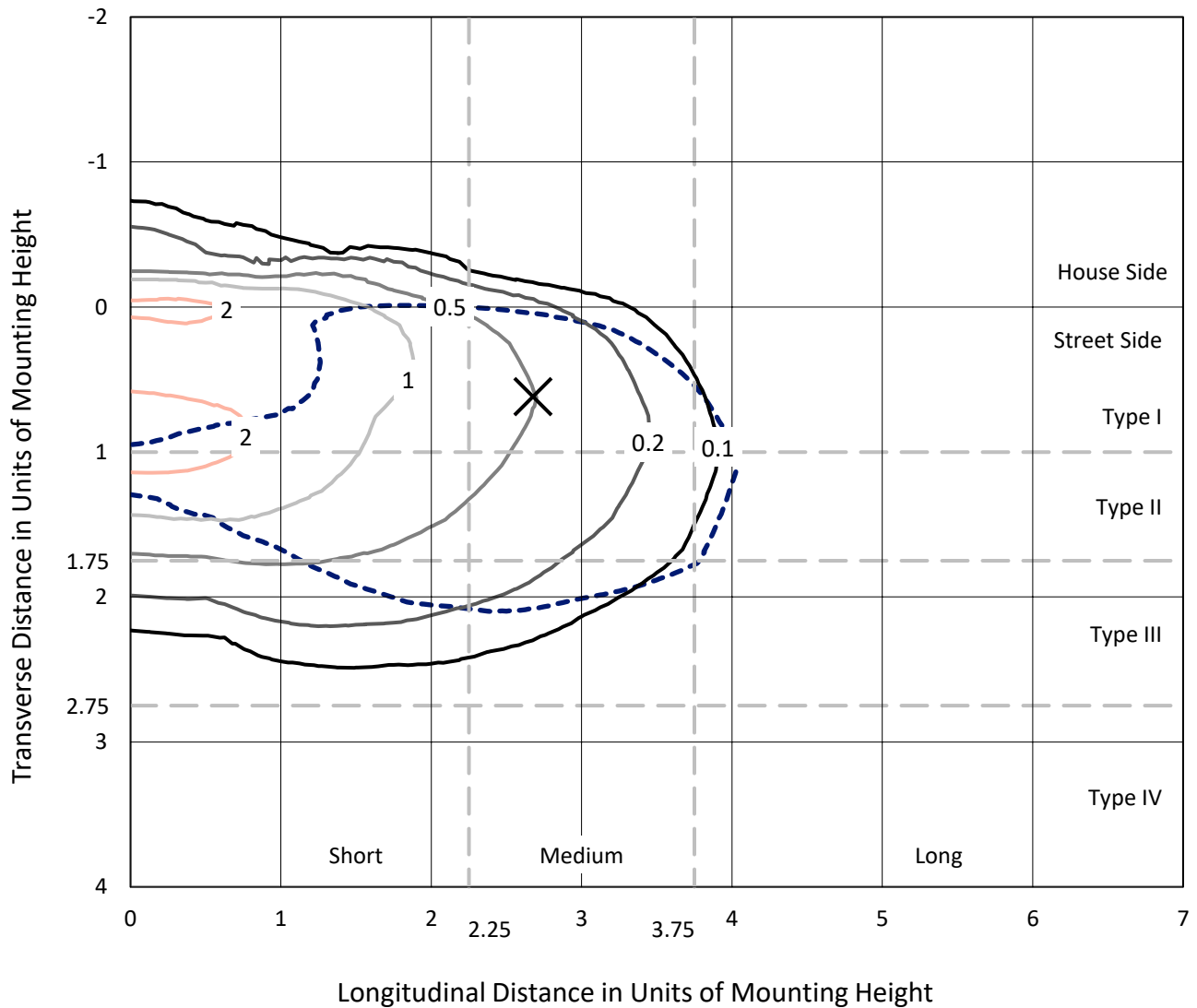
Lumens per Lamp: N/A  
Luminaire Lumens: 8968 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P946863  
 CATALOG NUMBER: GALN-SB2B-850-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

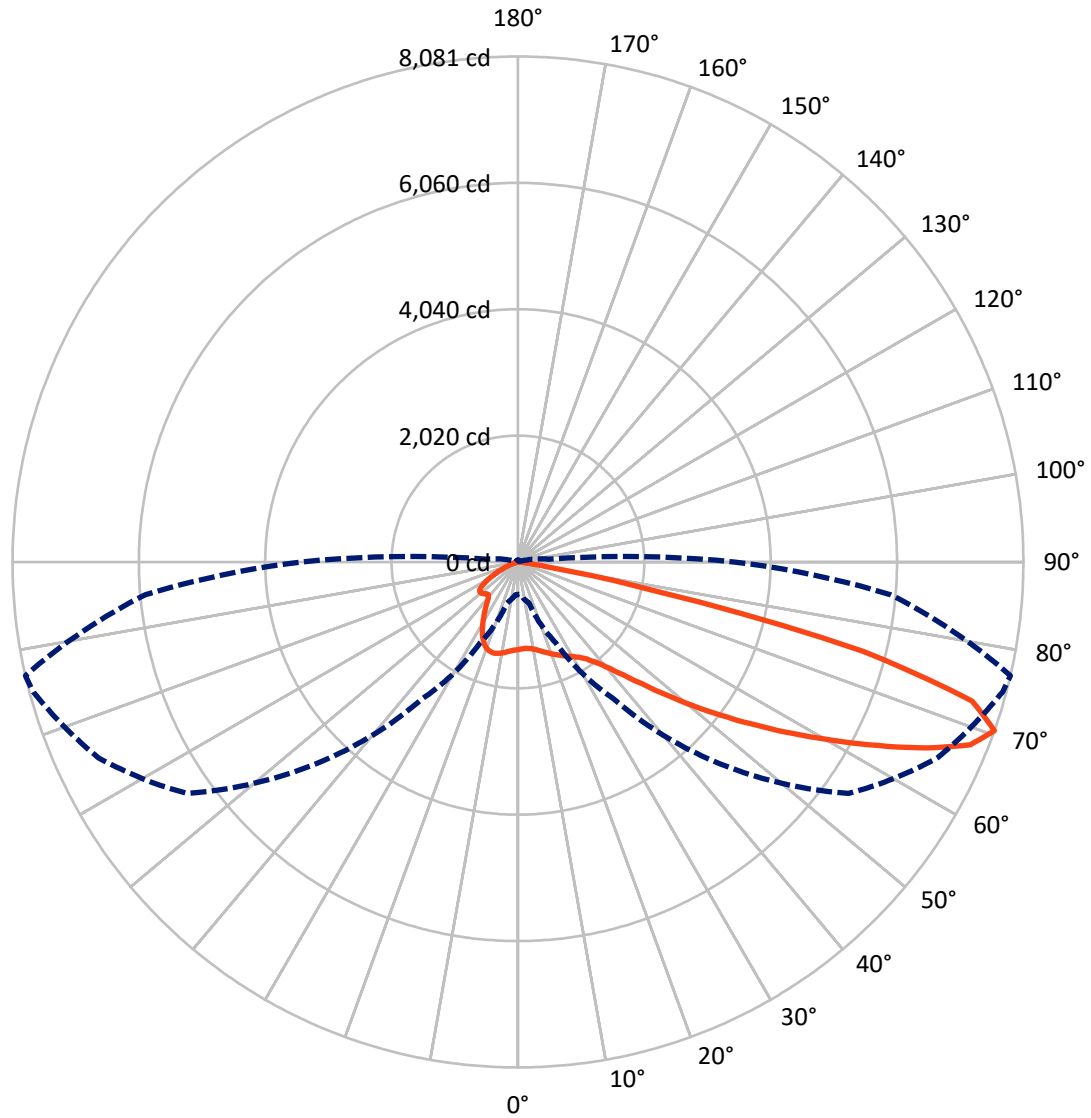
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P946863  
CATALOG NUMBER: GALN-SB2B-850-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P946863  
 CATALOG NUMBER: GALN-SB2B-850-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	945.4	0.0	945.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8022.6	0.0	8022.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	8968.0	0.0	8968.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	1.3
10°-20°	286.2	3.2
20°-30°	442.7	4.9
30°-40°	803.2	9.0
40°-50°	1516.2	16.9
50°-60°	2190.8	24.4
60°-70°	2332.0	26.0
70°-80°	1235.8	13.8
80°-90°	40.6	0.5
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°	8968.0	100.0
0°-180°	8968.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P946863

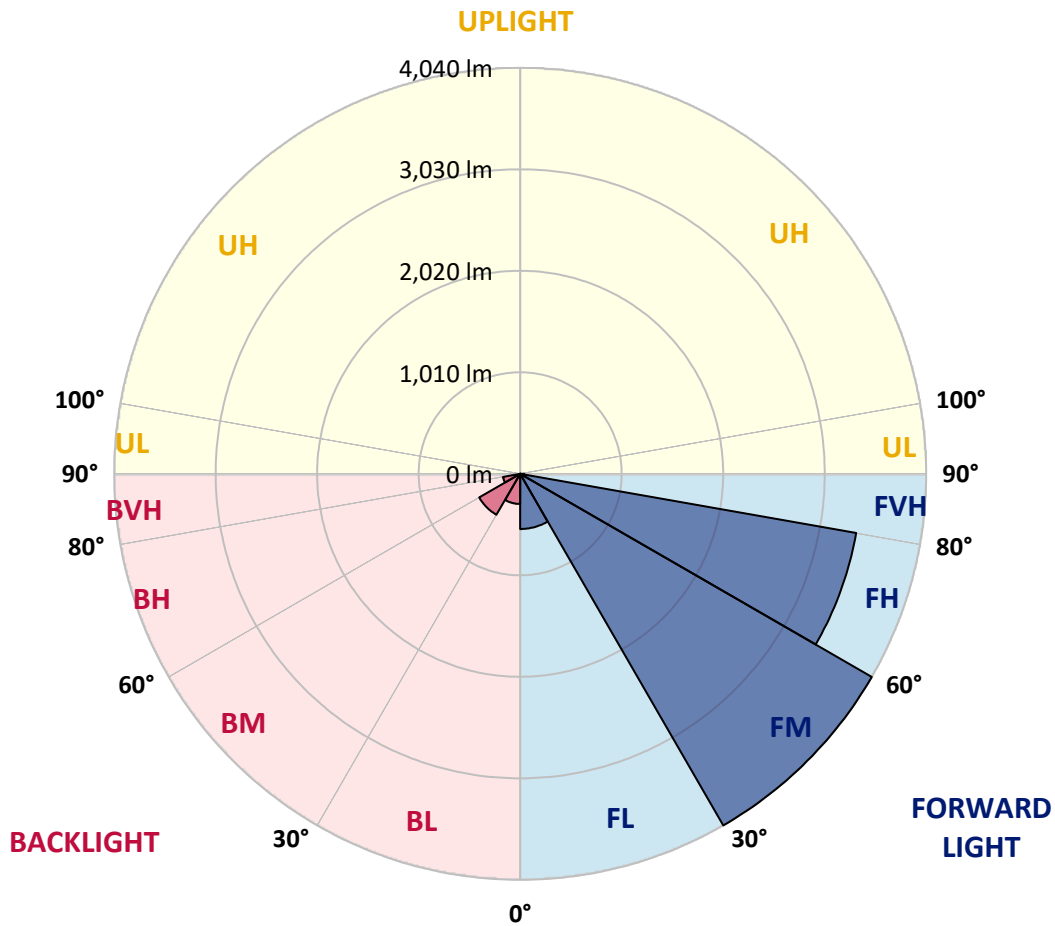
CATALOG NUMBER: GALN-SB2B-850-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.1	6.1			
FM (30°-60°)	4039.6	45.0			
FH (60°-80°)	3394.5	37.9			G2/5000
FVH (80°-90°)	39.5	0.4			G1/100
BL (0°-30°)	300.4	3.3	B1/500		
BM (30°-60°)	470.6	5.2	B1/1000		
BH (60°-80°)	173.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium



REPORT NUMBER: P946863  
 CATALOG NUMBER: GALN-SB2B-850-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8
2.5°	1313.3	1325.2	1323.5	1331.5	1334.3	1345.6	1356.9	1372.2	1389.2	1388.7
5°	1239.1	1251.0	1253.9	1264.6	1278.2	1295.8	1319.0	1349.6	1381.3	1386.4
7.5°	1151.4	1163.8	1171.2	1192.7	1217.6	1253.9	1291.8	1336.5	1389.2	1396.6
10°	1063.6	1074.9	1084.5	1115.1	1154.8	1208.6	1270.3	1334.9	1405.6	1416.4
12.5°	1009.2	1020.0	1030.7	1057.3	1106.6	1172.3	1256.1	1342.8	1432.8	1448.1
15°	990.0	999.6	1008.1	1031.9	1077.7	1152.5	1253.3	1359.2	1467.4	1487.8
17.5°	992.8	997.9	1003.5	1021.7	1066.4	1143.4	1258.4	1387.5	1508.1	1526.3
20°	1009.2	1012.0	1012.6	1025.1	1064.7	1142.3	1268.6	1414.7	1546.7	1571.0
22.5°	1030.2	1031.3	1030.2	1038.7	1075.5	1150.8	1282.2	1447.6	1589.7	1612.4
25°	1128.1	1106.6	1079.4	1063.0	1093.6	1167.2	1302.6	1491.7	1636.7	1658.8
27.5°	1432.3	1370.5	1273.1	1163.8	1131.0	1191.0	1330.9	1536.5	1684.3	1704.1
30°	1926.1	1845.1	1679.7	1433.4	1251.0	1240.8	1367.7	1581.2	1734.7	1756.2
32.5°	2421.1	2401.3	2210.4	1869.5	1521.2	1351.8	1428.9	1641.8	1801.5	1818.5
35°	2921.7	2881.5	2725.2	2388.2	1937.4	1577.8	1530.8	1721.1	1889.3	1908.5
37.5°	3305.1	3280.8	3183.9	2906.4	2431.3	1926.7	1705.2	1844.0	2016.7	2038.2
40°	3643.8	3632.5	3599.6	3416.7	2983.4	2383.1	1976.5	2034.3	2193.4	2218.9
42.5°	3910.0	3936.6	3955.3	3904.3	3552.6	2904.2	2341.2	2301.6	2439.8	2465.8
45°	4182.4	4191.4	4266.8	4340.4	4117.8	3449.0	2752.4	2614.8	2746.2	2778.4
47.5°	4357.4	4393.6	4526.1	4655.8	4593.0	3989.3	3194.1	2984.6	3101.2	3161.8
50°	4370.4	4438.9	4621.3	4847.3	4939.0	4503.5	3674.4	3405.9	3530.0	3596.8
52.5°	4153.5	4260.0	4542.6	4873.3	5125.9	4939.0	4171.1	3827.3	3986.4	4073.6
55°	3184.5	3323.8	4246.4	4731.7	5133.3	5269.2	4654.7	4266.2	4495.0	4593.5
57.5°	2774.5	2844.7	3338.5	4485.9	4996.8	5402.3	5091.9	4684.2	5048.3	5170.6
60°	2308.4	2400.7	2800.0	4083.8	4811.6	5415.3	5478.2	5223.3	5648.1	5785.7
62.5°	1568.7	1669.0	2066.0	3392.9	4558.4	5409.1	5794.7	5778.3	6314.6	6462.4
65°	971.8	1034.7	1296.3	2770.5	4204.5	5415.9	6126.0	6452.2	7018.0	7168.1
67.5°	767.9	796.8	933.3	2127.2	3594.5	5262.9	6456.8	7086.0	7680.1	7799.0
70°	515.9	533.5	679.0	1426.0	2674.2	4557.3	6450.5	7404.3	8021.0	8080.5
72.5°	271.8	285.4	397.0	660.3	1615.2	3239.4	5437.4	7023.7	7681.8	7592.3
75°	135.9	158.6	267.3	335.3	689.8	1806.6	3376.5	5537.6	6046.2	5699.6
77.5°	103.1	124.6	220.9	220.9	240.1	608.2	1430.0	3020.3	2785.8	2319.7
80°	65.7	85.0	193.1	167.1	100.2	154.6	372.6	846.1	591.8	450.2
82.5°	38.5	55.5	160.8	110.4	56.1	57.2	105.3	180.1	153.5	119.5
85°	15.3	36.2	110.4	43.6	22.1	14.2	31.7	38.5	31.7	23.8
87.5°	0.0	8.5	19.3	0.0	1.7	1.1	2.3	2.8	2.8	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946863  
 CATALOG NUMBER: GALN-SB2B-850-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1398.8	0°	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8
1400.0	2.5°	1405.1	1406.2	1409.6	1410.2	1402.2	1392.1	1388.1	1386.4	1379.6	1379.0
1409.0	5°	1422.1	1427.2	1422.1	1407.3	1372.2	1323.0	1285.6	1255.0	1227.2	1218.8
1440.2	7.5°	1456.0	1461.1	1445.9	1388.1	1299.7	1201.8	1113.4	1051.1	995.0	974.1
1478.1	10°	1504.8	1511.5	1463.4	1346.7	1190.4	1033.0	883.5	778.1	696.0	662.6
1529.7	12.5°	1565.9	1568.7	1473.0	1283.9	1048.3	823.5	611.6	498.9	425.9	398.7
1592.0	15°	1633.3	1629.3	1474.2	1198.4	854.6	582.2	399.3	327.9	298.5	289.4
1654.3	17.5°	1704.1	1687.7	1451.5	1074.9	642.2	398.1	296.2	279.2	274.1	271.8
1716.0	20°	1773.8	1736.9	1410.2	913.5	461.0	297.3	269.0	263.9	261.1	259.9
1778.3	22.5°	1837.2	1774.3	1339.4	726.0	334.7	262.8	254.3	249.8	244.7	242.4
1838.9	25°	1898.9	1795.8	1239.7	551.0	267.9	245.8	239.0	230.5	223.7	220.9
1904.0	27.5°	1959.0	1809.4	1115.1	407.8	239.0	229.9	217.5	205.6	200.5	199.3
1973.7	30°	2022.9	1814.0	973.5	304.1	221.4	210.1	192.0	178.4	175.6	176.1
2067.7	32.5°	2101.1	1820.8	830.8	249.2	206.7	186.3	164.8	150.6	148.4	150.6
2204.7	35°	2194.5	1834.4	693.2	229.4	193.7	162.0	138.8	126.9	124.6	126.3
2380.3	37.5°	2321.4	1856.4	564.6	225.4	182.9	141.6	116.7	107.0	107.0	107.6
2595.5	40°	2490.2	1915.3	449.7	222.6	177.3	126.3	98.5	94.6	96.3	97.4
2869.6	42.5°	2695.8	2040.5	372.1	219.2	171.0	119.5	89.5	87.8	90.6	91.7
3198.1	45°	2926.2	2199.1	344.9	213.5	165.4	124.0	85.5	83.3	86.6	87.2
3566.2	47.5°	3164.7	2354.3	341.5	207.3	159.7	130.8	84.4	79.3	83.3	83.8
3959.2	50°	3405.9	2455.6	344.9	197.7	150.6	130.8	85.0	75.3	78.7	80.4
4367.0	52.5°	3648.9	2502.1	342.6	176.7	134.8	122.9	85.0	71.9	75.3	76.5
4807.6	55°	3884.5	2493.0	308.1	145.5	114.4	108.7	82.7	69.1	71.4	71.9
5223.9	57.5°	4070.8	2366.7	244.1	113.3	92.9	90.6	75.3	65.7	67.4	66.8
5605.6	60°	4168.2	2089.2	174.4	87.2	73.1	71.4	66.3	61.2	62.3	59.5
5929.0	62.5°	4169.4	1722.2	116.7	69.1	58.3	56.6	56.6	54.9	53.8	48.1
6179.3	65°	4080.4	1315.0	77.6	54.9	47.0	44.2	47.6	47.0	43.0	35.1
6255.7	67.5°	3878.8	862.0	58.9	43.0	36.2	34.5	37.9	39.6	36.8	29.4
5977.1	70°	3464.3	501.8	48.7	33.4	27.2	25.5	30.6	34.0	30.6	23.8
5108.9	72.5°	2877.5	270.7	39.6	24.9	18.7	17.0	24.4	27.8	24.4	17.6
3277.9	75°	1867.2	145.0	30.6	16.4	9.6	10.8	18.1	20.4	17.0	11.3
962.2	77.5°	626.9	64.0	19.3	7.9	4.5	4.5	10.8	12.5	7.9	4.0
175.0	80°	139.9	26.6	7.9	3.4	1.7	1.7	2.3	2.3	1.1	0.0
53.8	82.5°	45.9	10.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
13.6	85°	17.6	4.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.5	87.5°	6.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
1398.8
1380.2
1213.7
965.6
648.5
390.2
289.4
271.3
258.8
241.8
219.7
198.2
176.1
150.1
125.7
107.0
97.4
91.7
87.8
84.4
81.0
76.5
71.9
66.8
58.9
46.4
34.0
28.9
22.7
17.0
10.2
3.4
0.0
0.0
0.0
0.0
0.0

F REPORT)