

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: P945780

Luminaire Tested: **GALN-SB1C-850-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-850-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5808 lumens
Efficiency: N/A
Efficacy: 106.8 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

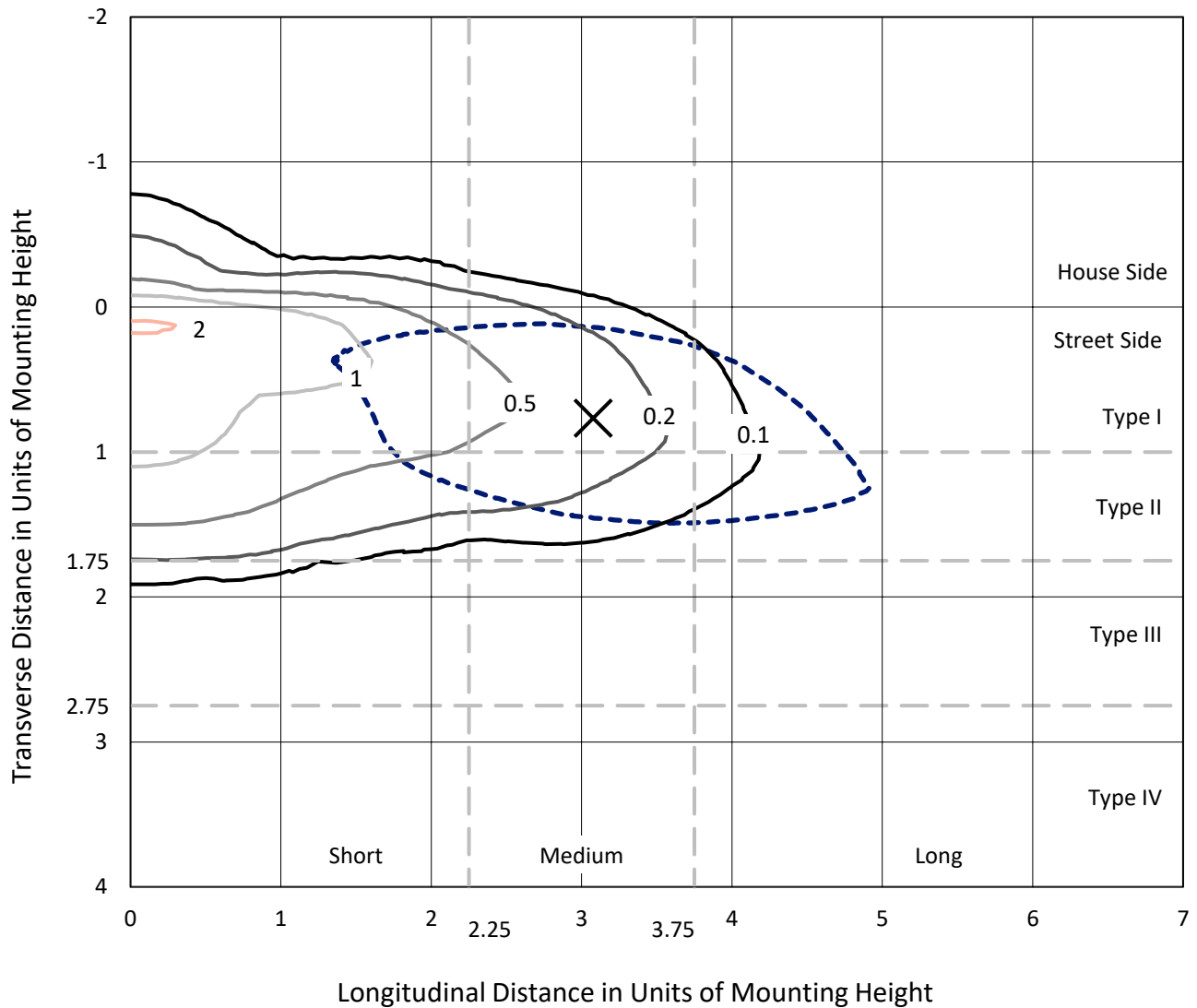
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945780
 CATALOG NUMBER: GALN-SB1C-850-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

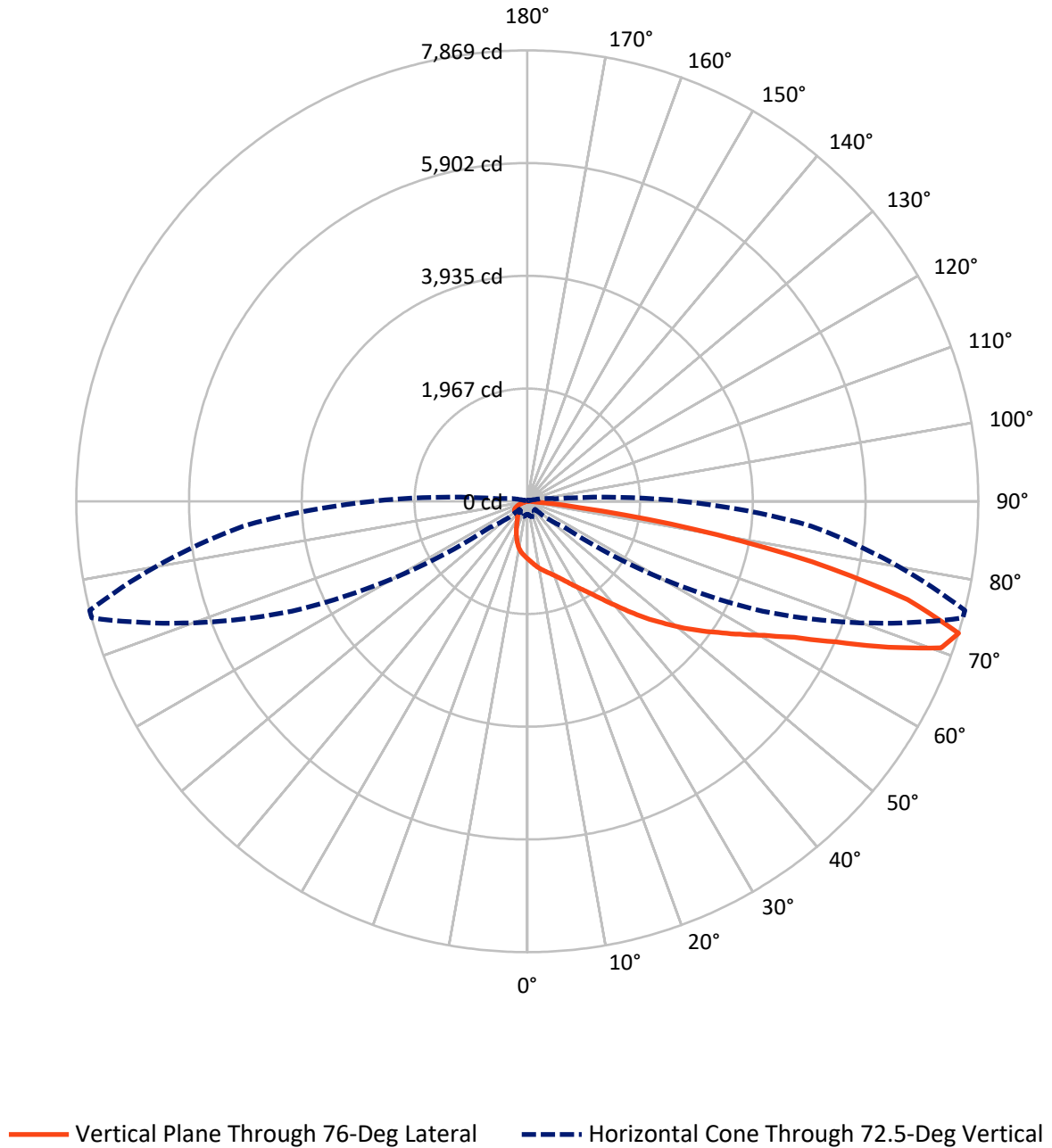
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P945780
CATALOG NUMBER: GALN-SB1C-850-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P945780

CATALOG NUMBER: GALN-SB1C-850-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.5	0.0	594.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5213.6	0.0	5213.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	5808.0	0.0	5808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.6
10°-20°	244.8	4.2
20°-30°	387.4	6.7
30°-40°	599.3	10.3
40°-50°	910.3	15.7
50°-60°	1255.0	21.6
60°-70°	1325.8	22.8
70°-80°	909.5	15.7
80°-90°	84.7	1.5
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°	5808.0	100.0
0°-180°	5808.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945780

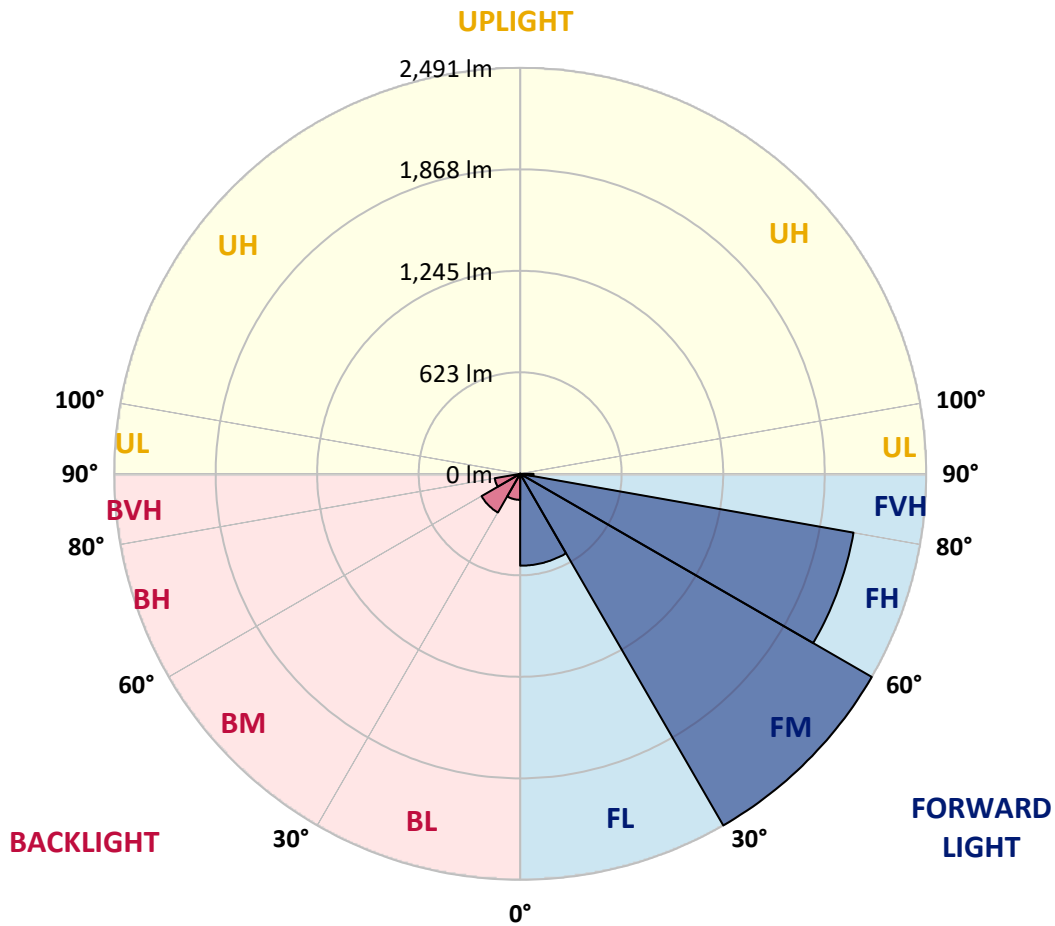
CATALOG NUMBER: GALN-SB1C-850-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.7	9.7			
FM (30°-60°)	2490.9	42.9			
FH (60°-80°)	2076.6	35.8			G2/5000
FVH (80°-90°)	82.4	1.4			G1/100
BL (0°-30°)	159.8	2.8	B1/500		
BM (30°-60°)	273.7	4.7	B1/1000		
BH (60°-80°)	158.7	2.7	B1/500		G1/500
BVH (80°-90°)	2.3	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 II Medium



REPORT NUMBER: P945780
 CATALOG NUMBER: GALN-SB1C-850-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7
2.5°	1166.8	1151.4	1154.4	1138.9	1131.8	1114.4	1096.4	1072.6	1046.2	1046.2
5°	1289.6	1279.8	1279.8	1261.7	1247.8	1220.7	1188.3	1146.5	1096.7	1091.8
7.5°	1365.0	1359.0	1362.7	1352.2	1340.9	1312.6	1274.2	1219.6	1149.1	1143.1
10°	1379.7	1379.3	1389.8	1392.9	1400.4	1386.1	1351.8	1288.9	1200.7	1192.0
12.5°	1322.8	1315.6	1341.6	1372.1	1415.1	1434.3	1416.6	1352.2	1247.8	1235.8
15°	1229.3	1230.9	1255.7	1302.8	1374.4	1443.0	1466.0	1414.0	1295.7	1281.3
17.5°	1175.8	1170.2	1191.7	1233.9	1313.0	1409.8	1488.9	1471.6	1346.5	1330.3
20°	1169.4	1169.1	1174.0	1193.2	1253.5	1362.3	1486.3	1527.7	1406.4	1387.6
22.5°	1213.9	1213.1	1209.0	1205.2	1221.8	1316.0	1475.0	1581.2	1478.0	1457.7
25°	1282.1	1281.0	1274.6	1251.6	1235.4	1291.1	1464.4	1631.0	1562.8	1540.2
27.5°	1365.4	1364.6	1352.9	1318.3	1276.4	1293.4	1459.2	1682.2	1660.7	1638.5
30°	1467.5	1466.0	1441.8	1392.9	1338.2	1329.2	1466.3	1739.9	1762.8	1745.9
32.5°	1595.6	1591.4	1559.8	1485.9	1409.4	1377.0	1479.9	1799.0	1883.8	1867.9
35°	1694.6	1688.2	1669.8	1604.6	1491.9	1435.8	1511.5	1869.1	2029.2	2015.3
37.5°	1779.8	1773.4	1758.3	1704.8	1610.2	1510.8	1562.4	1962.5	2201.0	2194.2
40°	1871.7	1861.2	1854.0	1796.7	1711.2	1618.9	1635.1	2071.8	2398.8	2399.5
42.5°	1942.5	1938.4	1939.2	1895.1	1808.8	1747.0	1731.6	2195.0	2635.8	2642.9
45°	2003.2	1999.8	2013.8	1982.9	1907.1	1831.0	1844.6	2334.4	2895.0	2909.7
47.5°	2049.9	2053.7	2073.7	2053.7	2009.2	1890.2	1944.8	2484.7	3167.4	3169.3
50°	2096.6	2098.1	2131.3	2121.5	2103.4	1965.1	2037.1	2652.7	3454.5	3457.8
52.5°	2111.3	2109.1	2161.8	2185.9	2186.7	2057.8	2156.5	2835.8	3735.9	3746.8
55°	2036.0	2042.4	2127.5	2225.5	2264.3	2185.9	2317.8	3067.5	4035.8	4040.3
57.5°	1667.5	1702.9	1891.3	2118.5	2314.4	2369.4	2549.5	3338.4	4382.0	4377.9
60°	1012.0	1054.2	1279.5	1776.8	2150.9	2553.6	2890.8	3758.1	4760.3	4748.6
62.5°	565.9	578.7	650.7	1063.6	1635.9	2436.5	3224.3	4297.3	5268.2	5228.6
65°	417.1	421.2	438.2	521.1	804.0	1874.0	3151.2	4941.9	5981.7	5911.3
67.5°	362.4	366.6	383.2	394.5	359.0	984.5	2596.2	5299.4	6887.8	6795.5
70°	305.2	307.4	334.2	341.7	256.9	374.5	1667.9	5189.0	7726.5	7660.5
72.5°	227.6	236.6	275.4	293.5	206.1	198.9	785.2	4536.9	7868.5	7869.3
75°	154.5	162.8	207.2	241.5	159.0	139.4	316.9	3387.8	6851.7	6851.7
77.5°	105.5	112.3	144.3	189.5	120.6	95.7	164.3	2150.1	4915.5	5088.4
80°	46.7	50.9	93.1	137.5	91.6	61.8	93.1	1177.4	2972.6	2936.0
82.5°	23.0	26.4	59.5	85.9	59.2	38.1	49.0	559.9	963.4	915.5
85°	4.5	6.0	32.0	36.5	27.5	17.0	18.5	172.2	116.0	132.6
87.5°	0.0	0.0	9.8	6.8	3.0	3.8	3.8	15.4	9.0	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945780
 CATALOG NUMBER: GALN-SB1C-850-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1003.7	0°	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7
1020.6	2.5°	1007.1	993.1	962.6	932.5	901.6	873.3	853.7	834.1	822.1	816.8
1043.2	5°	1015.0	986.7	922.7	855.6	789.3	724.5	675.9	630.3	616.0	592.3
1070.0	7.5°	1027.4	981.4	880.5	767.4	659.7	564.8	496.2	441.6	419.7	398.6
1093.0	10°	1035.7	971.6	824.7	673.6	527.8	421.2	355.7	316.1	301.8	289.0
1114.4	12.5°	1039.1	953.6	760.7	568.5	410.7	321.0	281.8	263.4	258.5	253.9
1134.8	15°	1042.1	935.9	689.1	467.2	324.4	268.6	253.2	247.2	243.8	240.7
1155.5	17.5°	1044.7	913.3	607.3	379.8	273.9	247.5	240.0	233.6	231.0	227.6
1185.3	20°	1053.8	891.4	534.2	313.5	246.4	232.5	224.2	217.4	215.1	212.9
1227.5	22.5°	1070.7	873.7	463.4	268.6	229.8	217.0	206.5	198.9	197.4	195.9
1278.7	25°	1091.1	851.8	396.7	239.6	213.6	199.3	187.6	181.2	179.7	180.1
1337.9	27.5°	1117.1	827.7	339.5	221.2	199.3	182.7	169.5	164.6	165.4	166.9
1406.0	30°	1145.7	805.5	294.6	208.3	186.5	168.0	154.8	151.5	154.1	156.4
1497.2	32.5°	1188.3	785.9	263.4	198.2	175.2	156.0	145.4	141.3	144.3	147.3
1613.6	35°	1246.3	776.1	245.6	189.5	165.4	146.6	136.0	133.0	136.0	136.8
1755.7	37.5°	1317.5	775.4	238.1	182.3	156.4	138.6	127.0	125.8	128.1	128.5
1926.3	40°	1409.4	780.3	232.5	177.1	146.9	129.6	118.7	117.5	118.3	120.9
2131.7	42.5°	1525.9	800.6	224.5	170.3	136.8	120.6	111.9	109.3	108.9	111.9
2361.5	45°	1672.0	845.4	214.0	159.4	127.7	113.0	104.4	101.3	100.2	101.0
2598.8	47.5°	1831.4	900.4	203.4	149.2	121.3	107.0	98.3	94.6	92.7	92.7
2820.8	50°	1985.9	962.6	196.3	138.6	116.8	101.3	91.9	88.2	85.1	84.4
3049.1	52.5°	2138.8	1023.6	190.6	128.1	111.5	94.2	85.9	81.8	78.4	76.9
3275.1	55°	2278.2	1081.7	180.8	117.9	104.7	86.7	79.9	75.7	71.6	68.9
3504.2	57.5°	2412.0	1129.9	162.8	107.4	94.2	79.5	73.5	68.9	64.0	60.7
3735.9	60°	2533.7	1154.8	140.2	96.1	83.6	72.0	66.3	62.2	55.8	50.1
3963.8	62.5°	2626.4	1145.0	115.7	83.3	72.7	65.2	58.0	53.9	46.3	39.6
4237.0	65°	2721.3	1091.5	92.3	69.7	63.7	56.1	48.6	44.5	35.8	28.6
4606.6	67.5°	2844.5	977.3	72.7	58.0	55.0	44.5	38.1	35.4	29.4	22.6
5003.3	70°	2923.6	759.2	56.5	47.1	45.2	32.4	29.4	29.0	23.4	17.3
4976.5	72.5°	2706.6	497.7	43.3	35.8	32.4	21.1	22.6	22.6	17.0	11.7
4362.4	75°	2259.4	291.2	31.3	25.6	18.5	13.6	15.4	15.4	10.5	5.7
3109.4	77.5°	1613.6	155.2	20.7	15.8	9.4	6.0	8.3	7.9	3.4	0.4
1218.8	80°	617.1	53.5	9.8	6.4	2.6	1.1	0.8	0.4	0.4	0.0
190.3	82.5°	94.2	13.9	1.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
40.3	85°	17.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.5	87.5°	3.8	0.0	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°
<hr/>
1003.7
817.6
593.8
398.2
288.6
253.9
240.7
227.6
213.2
194.8
179.3
166.1
155.6
146.6
136.4
127.7
120.6
111.5
102.1
92.7
84.0
76.1
67.8
59.2
48.6
36.9
26.7
21.1
15.4
10.2
4.5
0.0
0.0
0.0
0.0
0.0
0.0
0.0

F REPORT)