

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: P939424

Luminaire Tested: **GALN-SB2A-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

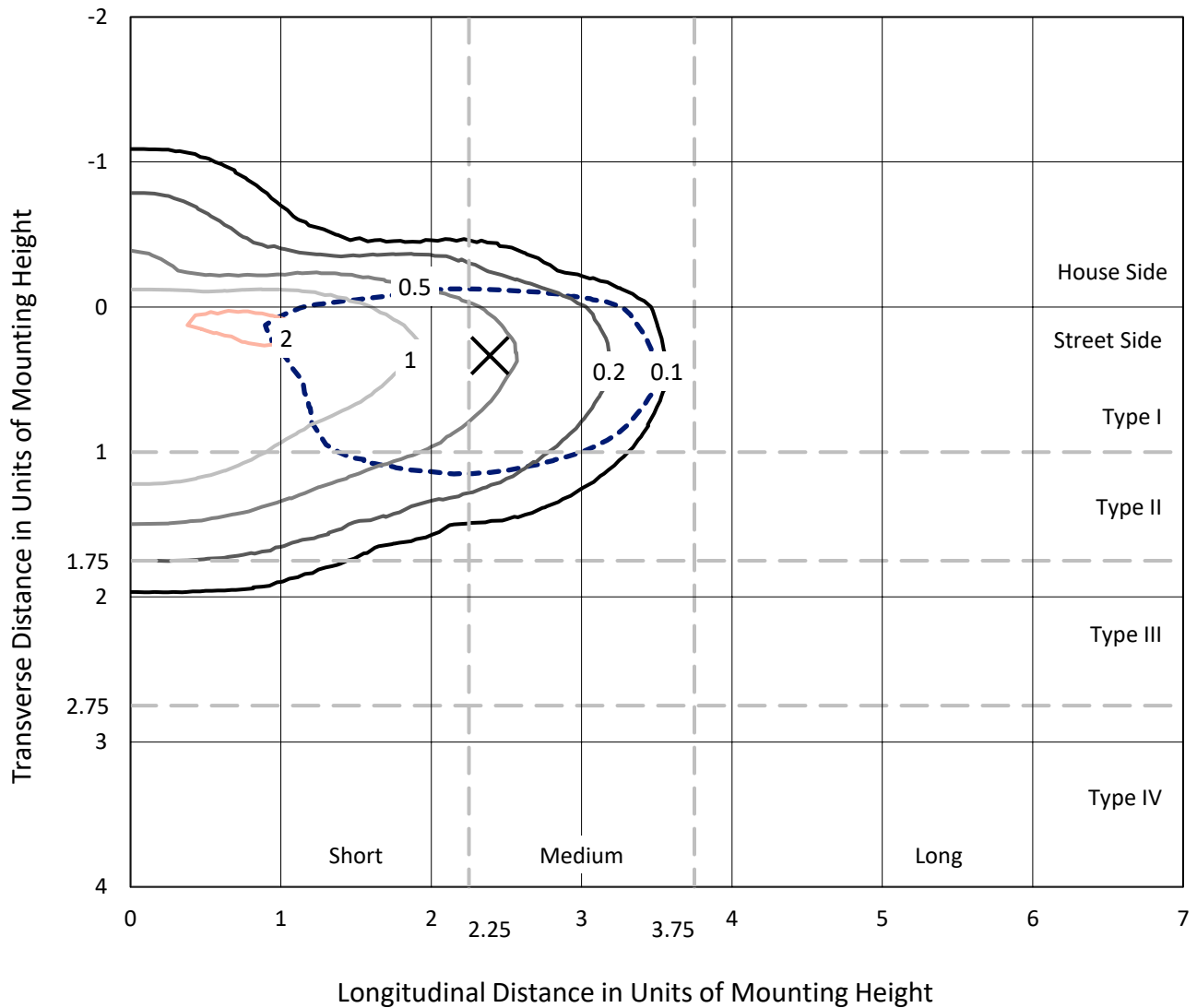
Lumens per Lamp: N/A  
Luminaire Lumens: 6551 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939424  
 CATALOG NUMBER: GALN-SB2A-735-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

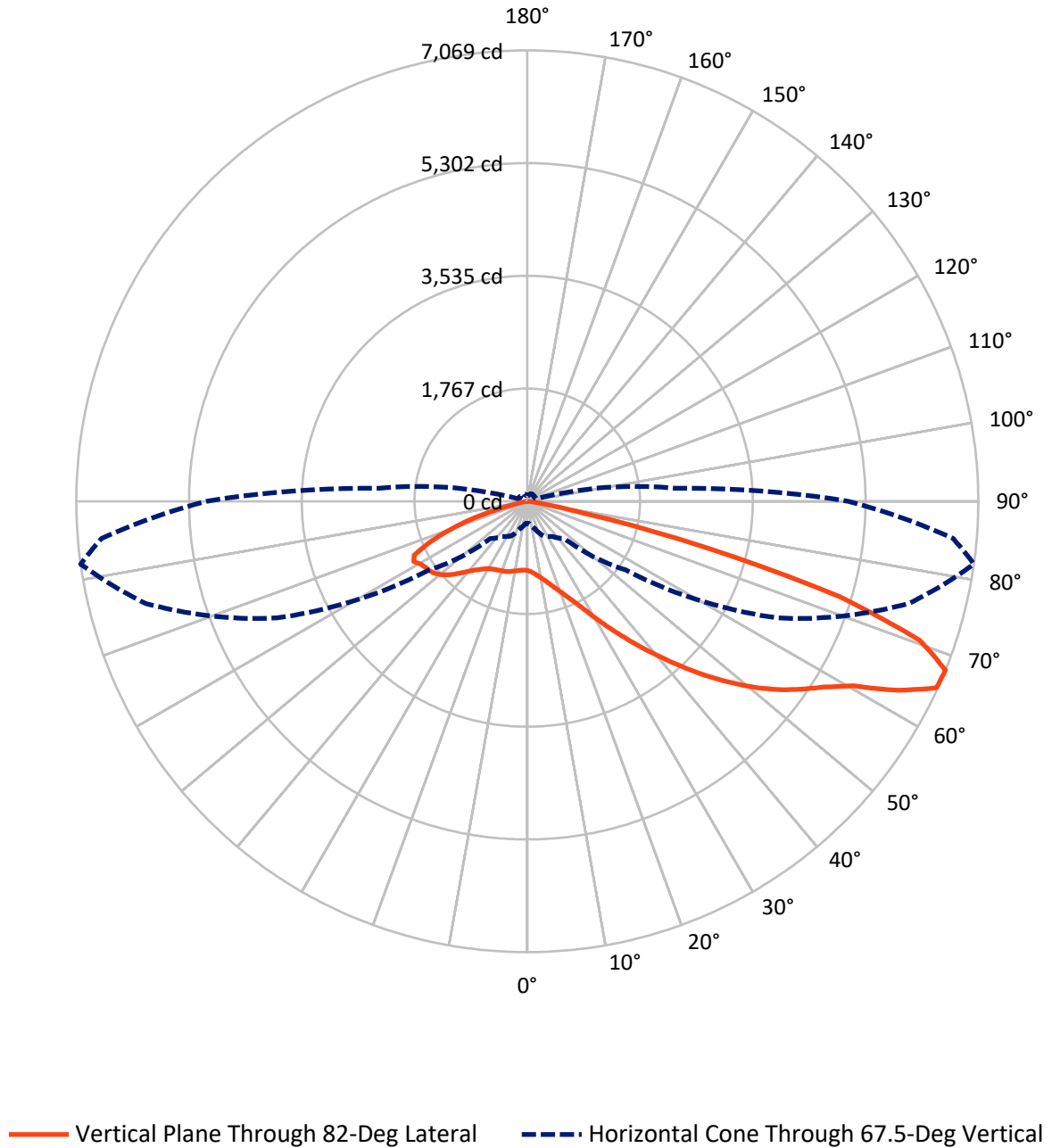
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P939424  
CATALOG NUMBER: GALN-SB2A-735-U-T2-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P939424

CATALOG NUMBER: GALN-SB2A-735-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1186.7	0.0	1186.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5364.3	0.0	5364.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6551.0	0.0	6551.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	1.5
10°-20°	251.3	3.8
20°-30°	402.4	6.1
30°-40°	711.6	10.9
40°-50°	1246.8	19.0
50°-60°	1662.9	25.4
60°-70°	1548.1	23.6
70°-80°	594.2	9.1
80°-90°	36.9	0.6
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°	6551.0	100.0
0°-180°	6551.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939424

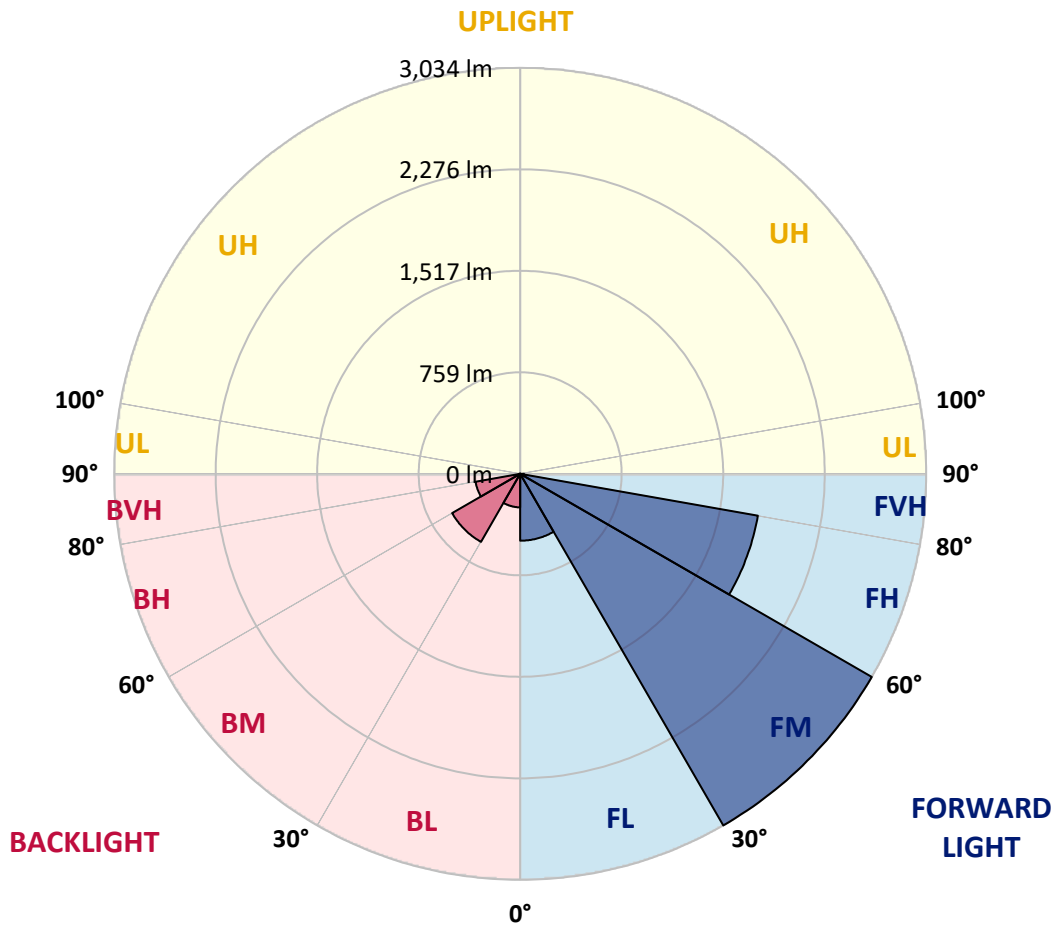
CATALOG NUMBER: GALN-SB2A-735-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.8	7.6			
FM (30°-60°)	3034.2	46.3			
FH (60°-80°)	1803.6	27.5			G2/5000
FVH (80°-90°)	26.8	0.4			G1/100
BL (0°-30°)	250.6	3.8	B1/500		
BM (30°-60°)	587.3	9.0	B1/1000		
BH (60°-80°)	338.7	5.2	B1/500		G1/500
BVH (80°-90°)	10.1	0.2			G1/100
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: P939424

CATALOG NUMBER: GALN-SB2A-735-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3
2.5°	1147.1	1153.7	1149.9	1148.0	1144.7	1140.0	1136.2	1124.4	1112.2	1104.1
5°	1170.2	1176.8	1176.3	1178.2	1180.6	1182.0	1181.0	1167.8	1150.4	1136.7
7.5°	1150.4	1157.9	1164.0	1173.5	1190.0	1207.4	1215.9	1213.1	1195.2	1176.3
10°	1094.2	1102.3	1116.9	1139.0	1174.0	1211.7	1243.3	1257.9	1246.6	1225.8
12.5°	991.4	999.4	1028.2	1076.3	1134.8	1200.4	1260.7	1299.9	1302.7	1282.0
15°	875.9	883.9	914.5	974.9	1064.1	1169.2	1270.2	1344.2	1369.2	1351.3
17.5°	804.2	811.2	834.4	882.9	975.9	1107.0	1266.9	1391.4	1448.5	1434.3
20°	782.5	788.6	799.5	833.4	910.8	1042.4	1245.2	1435.7	1533.8	1525.8
22.5°	805.6	811.2	814.5	829.6	878.2	999.9	1217.8	1481.0	1632.9	1633.8
25°	858.9	864.5	860.8	870.2	891.4	986.7	1207.4	1534.3	1757.4	1767.8
27.5°	946.6	947.1	938.1	937.7	941.0	1006.5	1218.3	1591.4	1914.4	1933.8
30°	1122.5	1115.5	1081.0	1043.8	1026.8	1065.9	1248.5	1658.8	2099.8	2134.2
32.5°	1393.7	1383.4	1320.2	1231.0	1141.4	1161.7	1302.7	1735.7	2301.7	2363.9
35°	1688.1	1685.2	1619.2	1486.7	1330.1	1298.0	1390.9	1836.6	2521.9	2621.0
37.5°	1961.6	1960.2	1922.5	1766.3	1575.8	1488.1	1532.4	1968.7	2757.8	2901.2
40°	2211.6	2215.8	2178.1	2038.5	1846.5	1731.9	1724.8	2131.9	3020.0	3206.3
42.5°	2427.6	2432.3	2394.1	2290.8	2114.0	2001.7	1961.1	2331.9	3276.1	3534.1
45°	2574.3	2603.5	2597.9	2515.3	2388.5	2272.0	2245.1	2582.8	3568.1	3881.7
47.5°	2615.8	2642.7	2685.1	2696.5	2619.1	2504.5	2536.6	2885.1	3863.3	4229.8
50°	2513.5	2538.4	2626.6	2744.1	2797.9	2762.5	2820.0	3209.1	4165.7	4576.9
52.5°	2311.6	2337.1	2448.4	2634.2	2853.5	2964.8	3104.4	3528.5	4458.6	4905.7
55°	2019.6	2046.5	2189.4	2399.8	2747.4	3048.3	3341.7	3847.3	4726.9	5201.4
57.5°	1622.5	1642.3	1790.9	2085.2	2480.4	2965.3	3516.7	4195.4	4979.7	5492.0
60°	1057.5	1074.9	1247.5	1575.8	2038.0	2688.0	3551.6	4583.5	5315.6	5869.8
62.5°	703.2	715.0	817.4	1058.4	1435.2	2155.5	3347.3	4893.4	5808.0	6527.2
65°	482.5	494.3	596.6	764.6	927.3	1425.8	2760.1	4852.4	6254.2	7049.4
67.5°	344.3	354.2	441.0	599.5	671.2	828.2	1871.1	4327.9	6190.0	7069.2
70°	246.7	252.3	324.0	466.9	533.4	497.6	1040.5	3310.1	5419.8	6527.7
72.5°	172.6	174.5	225.0	355.6	429.7	363.2	495.2	2206.9	4099.2	5123.6
75°	117.0	119.3	151.4	260.8	344.8	277.3	262.2	1183.4	2406.4	2836.1
77.5°	71.7	72.6	97.6	178.3	258.0	211.3	168.9	501.4	931.0	914.1
80°	40.6	40.6	62.3	110.8	175.9	136.3	118.4	213.2	294.8	258.9
82.5°	22.6	23.1	45.3	68.9	116.5	80.7	65.1	98.6	127.3	112.7
85°	9.4	10.4	27.8	32.5	55.7	40.1	26.4	41.5	47.2	42.0
87.5°	0.9	1.4	8.5	6.1	6.6	8.0	3.8	8.0	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939424  
 CATALOG NUMBER: GALN-SB2A-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1085.3	0°	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3	1085.3
1101.3	2.5°	1092.4	1085.3	1067.4	1046.6	1019.2	1006.0	988.1	975.9	965.5	966.4
1128.7	5°	1113.6	1095.7	1055.6	1005.6	943.3	899.0	851.8	819.3	792.9	787.2
1166.4	7.5°	1142.8	1114.5	1044.2	954.2	849.0	769.3	698.0	652.3	619.8	609.4
1212.2	10°	1180.6	1139.5	1029.6	889.5	738.1	636.7	560.3	524.5	502.3	494.8
1265.9	12.5°	1224.4	1168.3	1010.3	810.8	624.0	526.4	477.8	459.9	452.8	450.4
1332.0	15°	1279.6	1204.1	981.0	717.4	527.3	458.9	438.2	435.8	436.8	435.8
1411.2	17.5°	1345.2	1243.3	933.4	621.2	462.2	424.5	416.9	418.8	421.2	420.7
1499.9	20°	1416.9	1282.0	872.6	535.8	417.9	400.0	395.7	397.6	399.5	398.5
1602.2	22.5°	1498.4	1323.5	805.1	469.3	388.2	377.3	372.6	373.1	373.1	371.2
1731.9	25°	1596.1	1369.2	734.4	422.1	365.5	357.0	351.4	349.5	346.7	341.0
1889.5	27.5°	1712.6	1417.8	666.4	389.1	347.6	339.6	333.0	328.3	321.2	311.8
2078.6	30°	1843.7	1476.8	608.9	368.4	333.5	325.4	317.9	310.8	300.4	288.7
2296.0	32.5°	1997.9	1540.0	566.9	354.7	320.7	312.2	303.3	294.8	283.5	271.7
2540.3	35°	2181.9	1616.4	542.4	345.3	310.8	299.5	289.6	280.2	271.7	261.3
2805.9	37.5°	2381.4	1697.5	534.9	340.5	304.2	286.8	275.4	268.8	267.9	261.8
3093.1	40°	2599.8	1793.7	540.5	337.7	297.1	274.5	262.2	260.8	263.2	252.3
3400.2	42.5°	2830.9	1907.8	550.0	334.4	287.2	262.2	250.4	250.4	248.6	233.5
3724.7	45°	3080.9	2039.4	559.4	326.4	275.4	250.0	241.0	237.7	229.7	215.1
4051.0	47.5°	3332.7	2173.4	566.5	311.8	261.3	239.6	231.6	224.0	212.2	199.0
4371.3	50°	3571.8	2293.7	558.9	290.1	245.3	229.7	221.2	210.8	198.1	189.1
4674.6	52.5°	3785.5	2397.9	526.8	264.6	228.3	219.3	211.8	200.9	190.5	181.1
4948.1	55°	3971.3	2482.3	470.2	240.5	213.2	210.4	202.8	189.1	175.0	167.0
5219.3	57.5°	4149.6	2546.5	399.5	220.7	199.5	200.5	189.1	176.9	163.7	155.2
5584.9	60°	4386.9	2632.3	327.8	202.3	184.9	187.7	175.5	166.5	150.0	139.1
6211.7	62.5°	4766.1	2765.8	260.4	179.7	167.9	168.9	163.7	152.8	133.0	120.3
6676.3	65°	5067.0	2716.7	205.2	155.2	148.6	150.0	150.0	138.2	117.0	102.3
6701.3	67.5°	5033.0	2326.2	163.7	131.1	130.2	131.1	134.4	124.5	103.8	92.0
6190.9	70°	4636.4	1850.3	131.1	109.0	113.2	110.8	120.3	113.7	93.4	81.6
4799.6	72.5°	3783.1	1332.9	100.0	90.1	86.8	90.6	108.5	102.3	77.8	64.6
2542.2	75°	2210.6	711.3	74.5	71.2	62.7	75.5	96.2	87.3	59.4	47.6
779.2	77.5°	719.7	248.1	54.7	52.4	46.7	60.8	82.1	73.6	48.6	37.7
228.3	80°	192.9	75.0	37.3	34.4	30.2	45.3	65.1	58.5	34.9	24.5
98.1	82.5°	77.4	31.6	21.7	19.3	16.5	31.1	51.4	47.2	25.9	15.6
30.7	85°	25.0	10.4	8.0	6.1	7.5	19.3	30.7	32.1	18.4	8.0
4.7	87.5°	3.3	1.4	1.4	1.9	1.4	3.3	9.4	9.0	5.2	0.9
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°
1085.3
957.0
774.5
599.0
489.1
449.0
435.3
419.8
398.1
370.2
340.1
310.8
287.7
272.1
260.4
261.3
252.8
233.5
214.6
198.6
187.7
180.2
166.0
154.2
137.7
119.3
100.9
90.1
80.2
63.2
46.2
36.3
24.1
15.6
6.1
0.0
0.0

F REPORT)