

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: P947762

Luminaire Tested: **GALN-SB3A-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

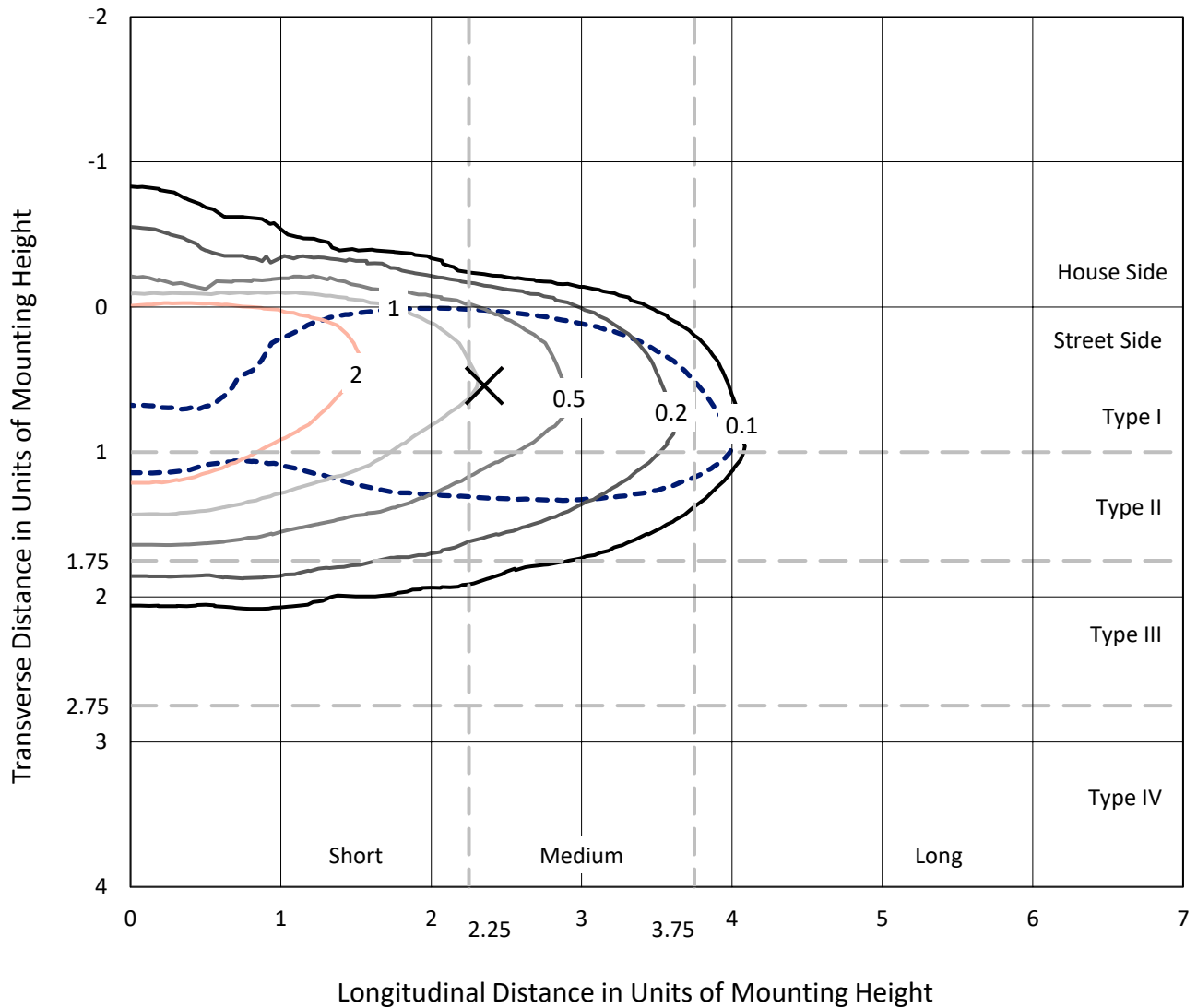
Lumens per Lamp: N/A  
Luminaire Lumens: 11395 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947762  
 CATALOG NUMBER: GALN-SB3A-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

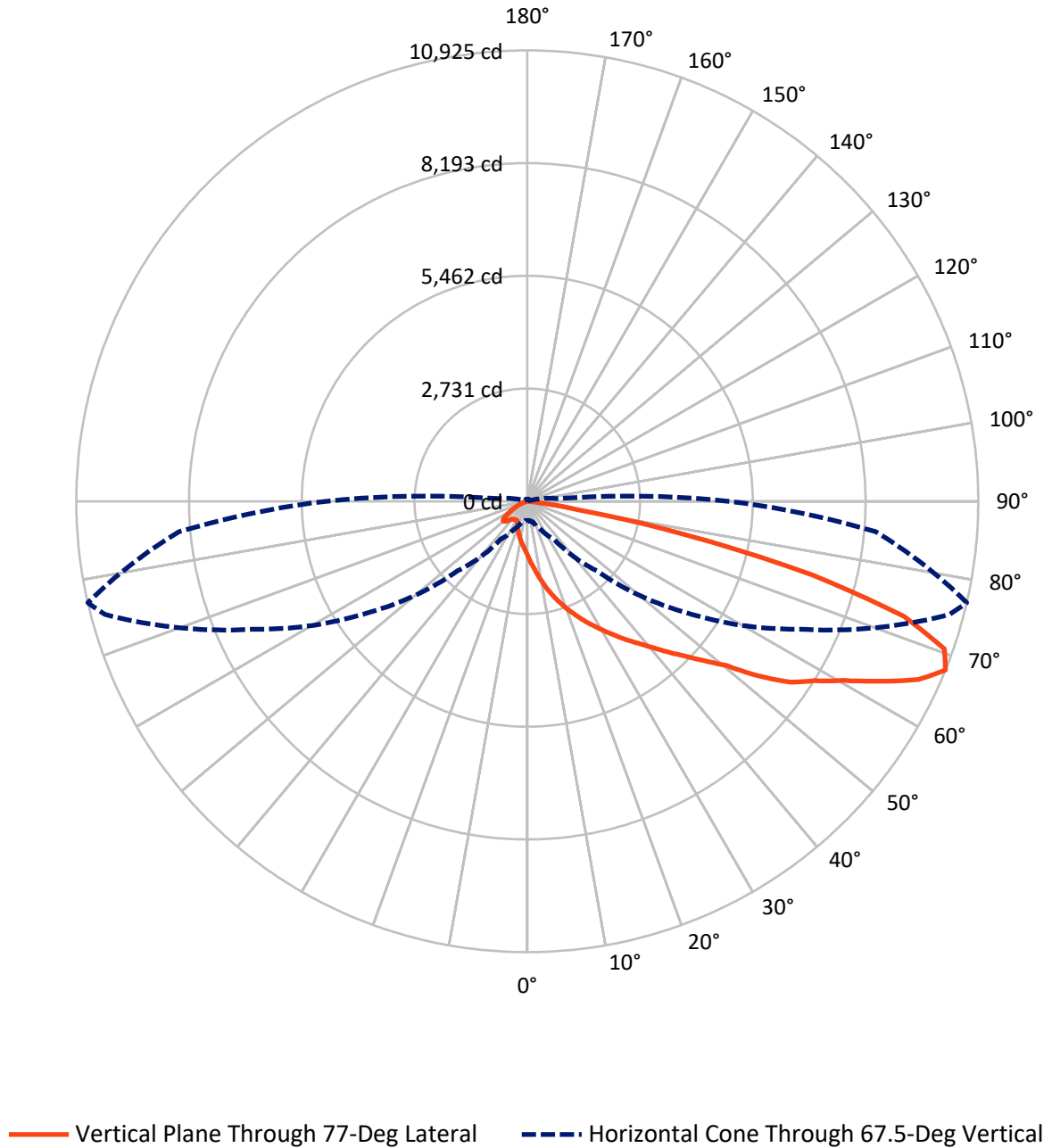
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P947762  
CATALOG NUMBER: GALN-SB3A-735-U-T2R-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P947762  
 CATALOG NUMBER: GALN-SB3A-735-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	838.4	0.0	838.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	10556.7	0.0	10556.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	11395.0	0.0	11395.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	1.2
10°-20°	469.7	4.1
20°-30°	906.3	8.0
30°-40°	1573.4	13.8
40°-50°	2284.5	20.0
50°-60°	2623.5	23.0
60°-70°	2277.7	20.0
70°-80°	1072.8	9.4
80°-90°	53.1	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°	11395.0	100.0
0°-180°	11395.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947762

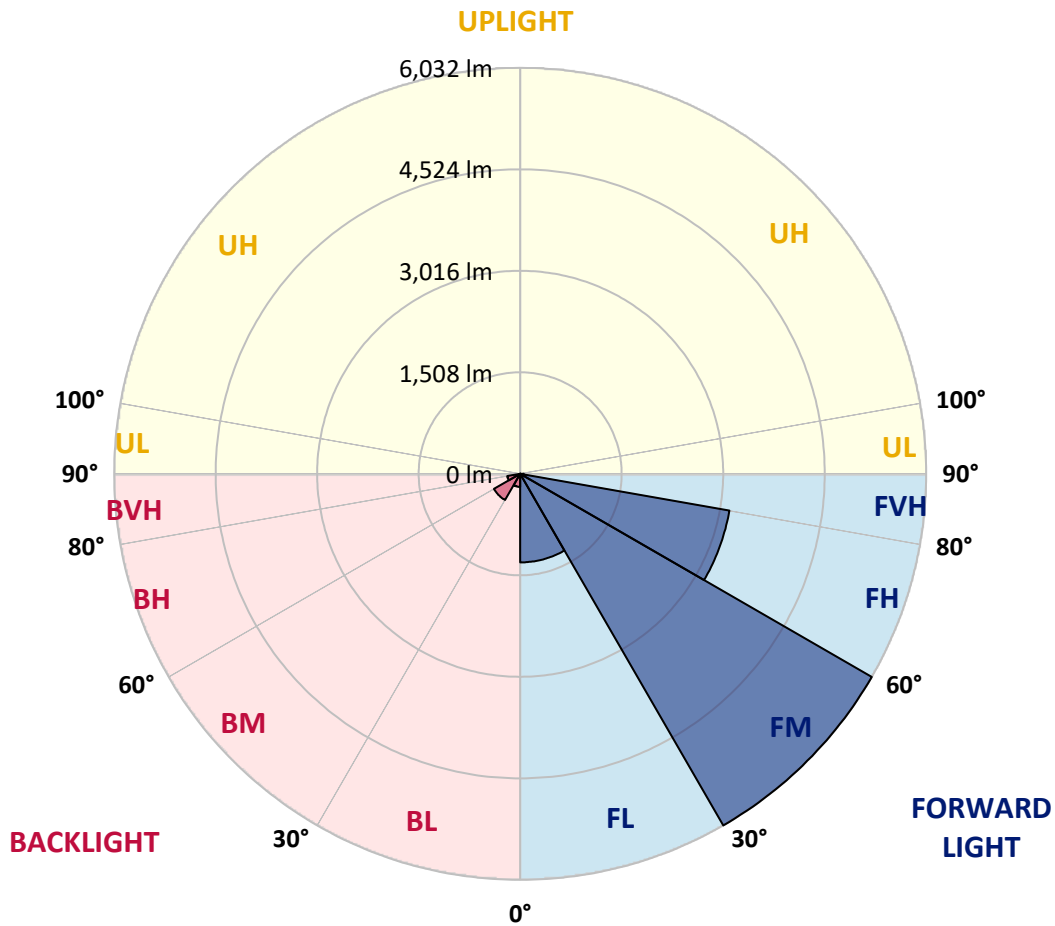
CATALOG NUMBER: GALN-SB3A-735-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.0	11.5			
FM (30°-60°)	6032.2	52.9			
FH (60°-80°)	3156.4	27.7			G2/5000
FVH (80°-90°)	52.1	0.5			G1/100
BL (0°-30°)	194.1	1.7	B1/500		
BM (30°-60°)	449.2	3.9	B1/1000		
BH (60°-80°)	194.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.0	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: P947762  
 CATALOG NUMBER: GALN-SB3A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1819.2	1830.6	1814.3	1783.1	1736.4	1706.0	1631.7	1561.7	1483.8	1459.1
5°	2217.6	2227.5	2209.1	2175.2	2112.9	2053.5	1955.8	1809.3	1657.2	1608.4
7.5°	2512.7	2518.3	2511.3	2480.1	2420.7	2353.5	2244.5	2071.1	1845.4	1791.6
10°	2725.0	2743.4	2741.2	2729.2	2689.6	2635.1	2519.1	2321.6	2056.3	1986.9
12.5°	2865.8	2886.3	2898.3	2925.2	2923.1	2888.4	2786.5	2577.8	2266.4	2185.1
15°	2906.8	2928.8	2974.7	3037.0	3092.2	3109.9	3038.4	2829.0	2497.8	2393.8
17.5°	2883.5	2917.4	2972.6	3071.0	3192.0	3271.9	3264.2	3071.7	2708.0	2589.1
20°	2935.1	2967.7	3010.8	3093.6	3234.4	3379.5	3437.5	3303.8	2916.7	2792.2
22.5°	3221.0	3215.3	3219.6	3233.0	3317.2	3460.9	3580.5	3514.6	3123.3	2996.0
25°	3673.9	3648.4	3605.2	3532.3	3511.1	3580.5	3705.0	3701.4	3341.3	3204.7
27.5°	4193.2	4189.0	4087.8	3912.3	3813.3	3786.4	3845.8	3883.3	3557.1	3411.3
30°	4690.7	4702.0	4565.4	4370.1	4188.3	4082.8	4029.1	4056.0	3776.5	3634.2
32.5°	5123.7	5135.8	4987.2	4758.6	4533.6	4406.2	4293.0	4226.5	4015.6	3860.7
35°	5489.6	5501.6	5331.0	5078.4	4838.6	4723.2	4595.1	4413.3	4256.2	4111.9
37.5°	5816.5	5812.9	5584.4	5329.6	5094.0	5002.7	4935.5	4643.3	4503.9	4364.5
40°	6009.6	6024.5	5829.2	5548.3	5319.7	5253.2	5249.0	4928.4	4789.7	4654.6
42.5°	6066.2	6092.4	5950.9	5720.2	5512.9	5440.7	5551.8	5236.9	5122.3	4990.7
45°	5964.4	5989.8	5925.4	5765.5	5644.5	5597.8	5812.2	5556.8	5477.5	5347.3
47.5°	5667.2	5699.0	5714.6	5680.6	5679.2	5726.6	6045.7	5893.6	5899.3	5766.2
50°	5091.9	5145.7	5288.6	5408.9	5595.0	5828.5	6272.9	6258.7	6374.8	6260.1
52.5°	4046.1	4122.5	4615.0	4944.0	5362.2	5809.4	6522.6	6844.6	7209.0	7041.3
55°	3251.4	3251.4	3651.9	4267.5	4907.9	5683.4	6631.6	7225.3	7777.2	7737.6
57.5°	2650.7	2682.5	2938.0	3482.1	4250.5	5383.4	6698.8	7464.5	8235.0	8206.0
60°	1636.0	1704.6	2187.2	2724.3	3502.6	4849.2	6656.4	7706.5	8790.5	8813.9
62.5°	921.3	946.8	1161.9	1960.0	2723.5	4131.0	6331.6	7841.6	9500.9	9600.0
65°	636.1	648.9	731.7	1219.9	1887.9	3288.9	5696.9	7757.4	10212.8	10413.0
67.5°	462.1	468.4	520.1	745.1	1120.1	2384.6	4702.0	7332.8	10589.9	10924.6
70°	355.2	359.5	397.0	489.7	661.6	1471.8	3414.9	6488.7	10316.8	10716.6
72.5°	288.7	292.9	322.0	362.3	438.7	870.3	2069.7	5269.5	9111.0	9542.7
75°	243.4	249.1	275.3	301.4	343.9	559.0	970.8	3669.6	6851.7	7134.7
77.5°	135.2	124.5	223.6	249.8	290.1	353.8	454.3	2159.6	3837.3	3915.9
80°	84.2	87.0	177.6	201.0	222.9	178.3	208.0	831.4	1330.3	1263.8
82.5°	5.0	11.3	136.6	145.1	152.8	76.4	78.5	282.3	320.5	294.4
85°	0.0	0.0	62.3	50.2	53.1	21.9	22.6	65.8	43.2	46.7
87.5°	0.0	0.0	0.0	1.4	0.0	2.1	4.2	5.7	2.1	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947762  
 CATALOG NUMBER: GALN-SB3A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1314.0	0°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
1381.2	2.5°	1331.7	1282.2	1181.7	1083.3	1003.4	929.1	876.0	825.8	800.3	798.9
1470.4	5°	1372.0	1268.0	1067.1	889.5	746.5	631.9	557.6	504.5	477.6	468.4
1580.1	7.5°	1428.6	1272.3	966.6	719.6	551.2	452.9	410.4	393.4	387.8	381.4
1703.9	10°	1500.1	1282.2	876.7	579.5	434.5	384.9	368.0	360.9	356.6	352.4
1843.3	12.5°	1580.1	1291.4	787.6	481.2	382.1	356.6	344.6	336.1	330.4	325.5
1986.2	15°	1657.9	1297.0	694.9	412.5	355.2	334.7	322.0	312.8	305.0	299.3
2126.3	17.5°	1735.0	1304.8	607.8	371.5	333.3	312.8	300.0	288.7	282.3	276.0
2273.5	20°	1820.7	1303.4	525.7	342.5	311.3	290.8	277.4	266.8	260.4	253.3
2429.2	22.5°	1899.9	1296.3	453.6	317.7	288.7	268.9	254.0	243.4	237.0	231.4
2588.4	25°	1991.2	1290.7	393.4	295.1	267.5	247.7	231.4	221.5	214.4	209.4
2748.3	27.5°	2078.9	1282.2	349.6	274.5	247.0	227.8	212.3	201.0	194.6	191.1
2913.2	30°	2165.3	1280.0	333.3	254.7	228.6	209.4	193.9	183.3	178.3	176.9
3094.3	32.5°	2269.3	1285.7	340.4	247.7	211.6	192.5	177.6	169.8	164.9	164.9
3296.0	35°	2380.4	1284.3	351.0	254.0	200.3	175.5	164.2	159.2	154.3	154.3
3519.6	37.5°	2519.8	1286.4	359.5	264.6	196.0	161.3	155.0	148.6	145.8	145.8
3764.4	40°	2727.8	1356.5	355.2	273.8	194.6	151.4	138.7	136.6	134.4	134.4
4041.1	42.5°	2982.5	1508.6	360.9	274.5	193.9	144.4	127.4	131.6	126.7	126.0
4353.1	45°	3261.3	1674.9	397.0	259.7	193.2	140.8	121.7	126.7	118.9	118.9
4714.7	47.5°	3538.0	1839.8	433.8	238.5	191.1	140.1	116.8	113.9	111.8	112.5
5186.0	50°	3919.4	1974.2	447.9	209.4	186.1	138.7	107.6	108.3	106.8	108.3
5850.4	52.5°	4334.8	2002.5	430.9	176.9	171.9	134.4	101.2	104.0	103.3	104.7
6318.1	55°	4593.7	1972.1	355.9	147.2	150.0	117.5	94.8	100.5	100.5	100.5
6775.3	57.5°	4861.2	1842.6	252.6	119.6	124.5	96.2	89.2	96.9	96.2	95.5
7325.8	60°	5053.7	1633.1	166.3	98.4	99.1	79.3	82.8	91.3	90.6	87.0
7893.3	62.5°	5197.3	1401.8	106.8	83.5	75.7	71.5	75.7	82.8	80.0	72.2
8374.4	65°	5181.0	1081.2	82.1	71.5	62.3	62.3	65.8	72.2	63.7	50.9
8466.4	67.5°	4878.9	731.7	67.9	60.1	52.4	51.7	54.5	60.1	54.5	43.2
7995.2	70°	4339.0	478.3	54.5	46.7	41.7	38.2	43.9	51.7	46.0	34.7
6806.4	72.5°	3521.7	291.5	41.0	34.0	30.4	24.8	34.7	42.5	36.8	25.5
4733.1	75°	2278.5	148.6	28.3	21.9	16.3	14.9	25.5	31.8	25.5	15.6
2100.2	77.5°	871.8	62.3	15.6	9.9	8.5	7.1	14.2	19.1	10.6	3.5
406.9	80°	167.7	26.2	7.8	5.0	4.2	2.8	2.1	1.4	0.0	0.0
72.2	82.5°	29.0	8.5	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
14.2	85°	9.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	87.5°	3.5	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°
1314.0
797.5
467.0
380.0
351.0
324.1
298.6
275.3
252.6
230.7
208.7
191.1
176.2
164.9
154.3
145.8
134.4
125.2
118.9
112.5
108.3
104.7
100.5
95.5
87.0
70.8
49.5
41.7
33.3
24.1
13.4
2.8
0.0
0.0
0.0
0.0
0.0

F REPORT)