

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: P954341

Luminaire Tested: **GALN-SB7C-840-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39242 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

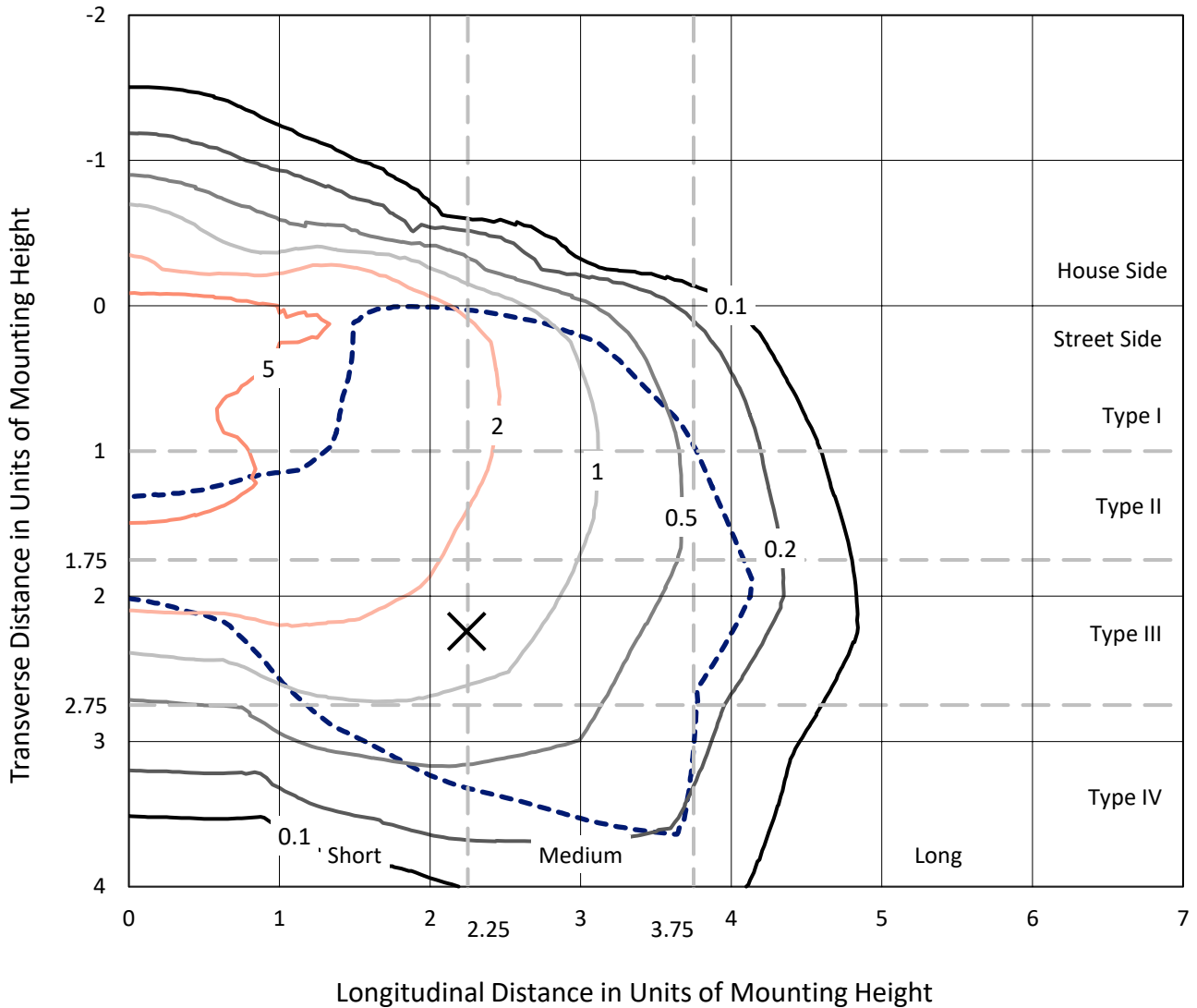
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954341
 CATALOG NUMBER: GALN-SB7C-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

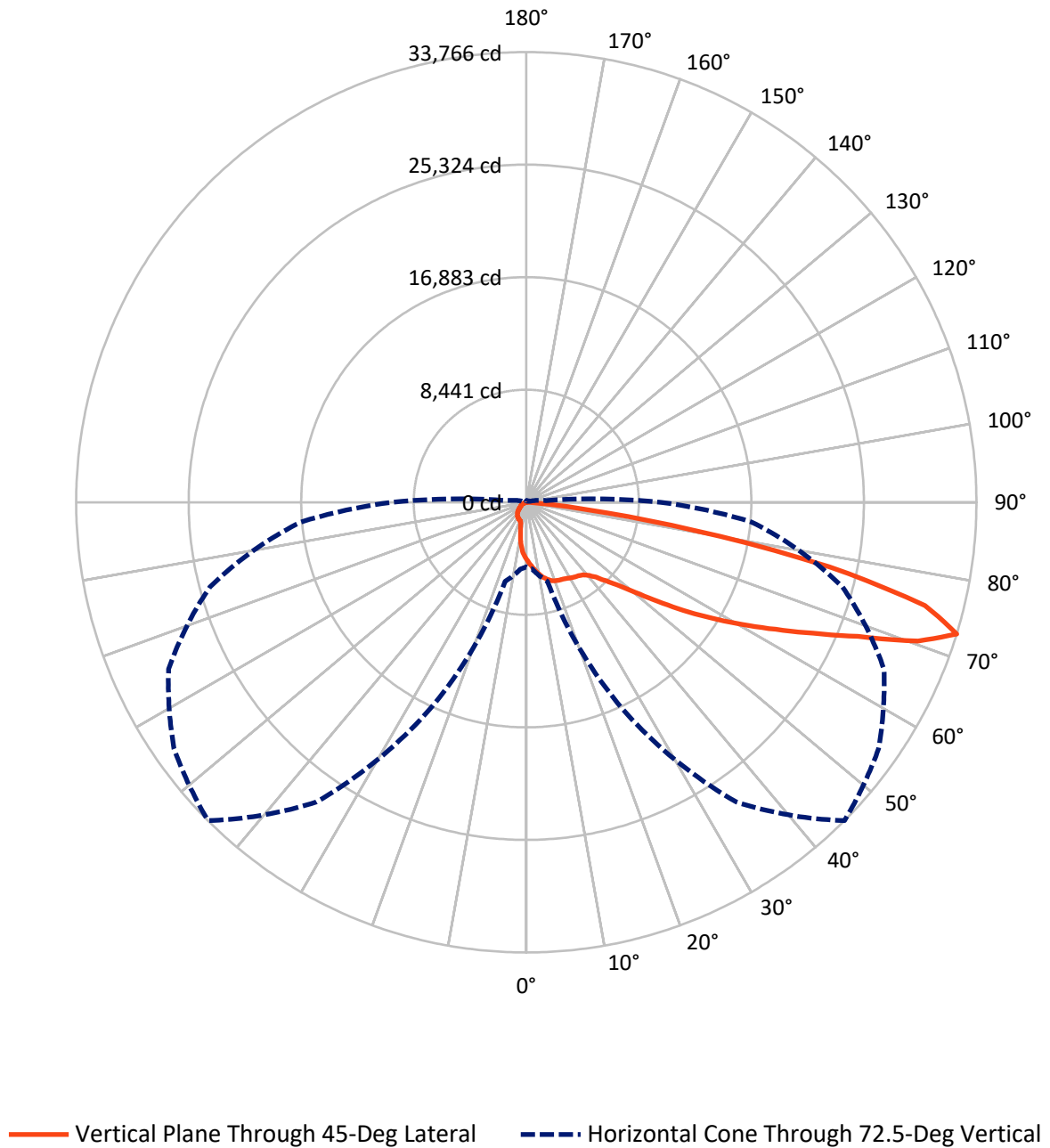
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P954341
CATALOG NUMBER: GALN-SB7C-840-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P954341
 CATALOG NUMBER: GALN-SB7C-840-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4123.2	0.0	4123.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	35118.8	0.0	35118.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	39242.0	0.0	39242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	1.0
10°-20°	1183.8	3.0
20°-30°	1944.0	5.0
30°-40°	2757.0	7.0
40°-50°	4557.1	11.6
50°-60°	8186.3	20.9
60°-70°	11367.2	29.0
70°-80°	8245.4	21.0
80°-90°	596.1	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°	39242.0	100.0
0°-180°	39242.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954341

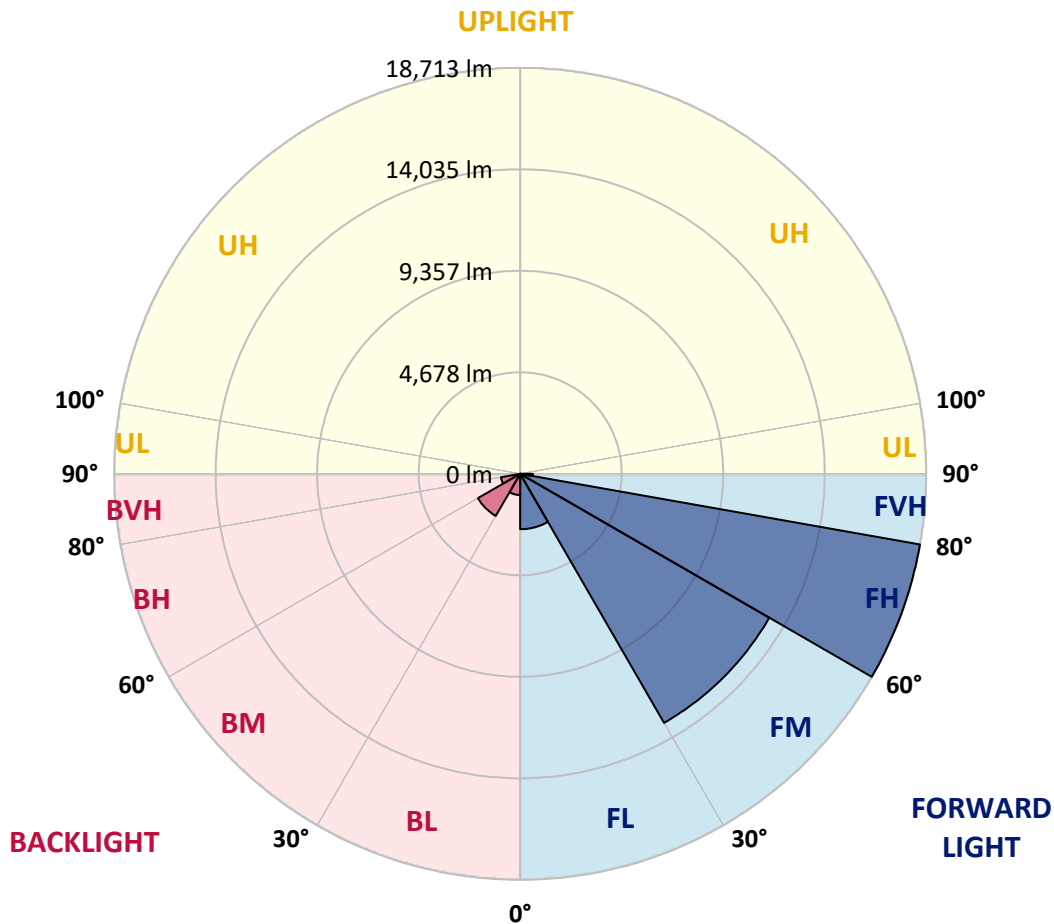
CATALOG NUMBER: GALN-SB7C-840-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2556.2	6.5			
FM (30°-60°)	13258.0	33.8			
FH (60°-80°)	18713.4	47.7			G5
FVH (80°-90°)	591.1	1.5			G4/750
BL (0°-30°)	976.6	2.5	B2/1000		
BM (30°-60°)	2242.5	5.7	B2/2500		
BH (60°-80°)	899.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P954341
 CATALOG NUMBER: GALN-SB7C-840-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0
2.5°	4695.5	4703.5	4698.1	4666.0	4612.4	4583.0	4566.9	4513.3	4478.5	4416.9
5°	5126.7	5158.9	5140.1	5075.8	4974.0	4901.7	4880.3	4770.5	4671.4	4556.2
7.5°	5584.7	5600.8	5566.0	5483.0	5346.4	5223.1	5204.4	5051.7	4893.7	4716.9
10°	5981.2	5999.9	5946.3	5825.8	5670.5	5517.8	5491.0	5322.2	5134.7	4917.8
12.5°	6313.3	6332.1	6262.4	6117.8	5946.3	5788.3	5761.5	5584.7	5378.5	5137.4
15°	6565.1	6599.9	6506.2	6350.8	6166.0	6007.9	5994.6	5820.5	5619.6	5351.7
17.5°	6712.4	6747.2	6658.8	6471.3	6313.3	6179.4	6163.3	6018.7	5831.2	5574.0
20°	6736.5	6768.7	6674.9	6511.5	6380.3	6273.1	6265.1	6160.6	6024.0	5777.6
22.5°	6664.2	6704.4	6618.7	6487.4	6396.3	6340.1	6329.4	6270.4	6192.8	5983.8
25°	6589.2	6621.3	6557.0	6441.9	6393.7	6388.3	6396.3	6385.6	6369.6	6192.8
27.5°	6583.8	6618.7	6546.3	6436.5	6409.7	6466.0	6474.0	6524.9	6538.3	6382.9
30°	6629.4	6653.5	6583.8	6468.7	6455.3	6583.8	6586.5	6677.6	6699.0	6543.7
32.5°	6728.5	6755.3	6685.6	6516.9	6498.1	6677.6	6685.6	6806.2	6841.0	6715.1
35°	6961.5	6993.6	6913.3	6650.8	6583.8	6766.0	6790.1	6932.0	7001.7	6897.2
37.5°	7542.7	7449.0	7339.2	6921.3	6779.4	6905.3	6945.4	7111.5	7234.7	7114.2
40°	8986.5	8691.8	8349.0	7382.0	7122.2	7202.6	7234.7	7400.8	7569.5	7451.7
42.5°	11153.4	10805.2	10253.4	8442.7	7639.2	7679.4	7703.5	7848.1	8086.5	7992.7
45°	13084.6	12958.7	12396.2	10253.4	8606.1	8407.9	8437.4	8512.4	8863.3	8828.4
47.5°	14568.5	14496.2	14062.3	12332.0	10240.0	9299.9	9382.9	9417.7	9924.0	10047.2
50°	15709.6	15682.8	15294.4	14180.2	12374.8	10615.0	10644.5	10569.5	11327.5	11632.9
52.5°	16786.4	16877.4	16590.8	15897.1	14654.3	12337.3	12332.0	11978.4	13001.6	13462.3
55°	17758.7	17790.8	17820.3	17648.9	16947.1	14298.0	14247.1	13668.6	14943.5	15420.3
57.5°	18672.0	18685.4	18947.9	19298.8	19333.6	16403.3	16309.6	15615.8	17064.9	17405.1
60°	19285.4	19347.0	19901.5	20876.5	21302.4	18575.6	18524.7	17817.6	19223.8	19381.9
62.5°	18401.5	18776.5	20174.7	22108.6	23161.3	20983.6	20959.5	20295.2	21495.2	21366.7
65°	14895.3	15530.1	17989.0	22941.6	24985.4	23672.9	23707.7	23000.6	23828.2	23410.4
67.5°	10419.5	11089.1	13998.0	23008.6	27023.7	26830.9	27031.7	25922.8	26305.9	25368.4
70°	7205.3	7550.8	9444.5	21567.5	28612.1	31180.8	31175.4	29512.1	28770.1	26260.3
72.5°	4845.5	5024.9	6133.8	17110.5	27444.2	33765.6	33610.2	32254.9	29600.5	24559.5
75°	2043.7	2175.0	2839.2	9615.9	21712.2	30891.5	30471.0	28504.9	26300.5	19339.0
77.5°	648.2	704.5	1119.6	3441.9	11959.6	23220.2	22775.6	17801.5	17627.4	9701.6
80°	308.0	358.9	629.5	1382.1	4706.2	12629.3	12567.7	8075.8	7582.9	2619.6
82.5°	133.9	158.0	348.2	739.3	2105.3	4505.3	4596.4	2748.2	2274.1	993.7
85°	42.9	56.2	160.7	340.2	889.3	1119.6	1106.2	653.6	916.1	541.1
87.5°	0.0	0.0	53.6	77.7	91.1	64.3	72.3	56.2	254.5	150.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954341
 CATALOG NUMBER: GALN-SB7C-840-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4299.0	0°	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0
4352.6	2.5°	4320.5	4277.6	4202.6	4133.0	4071.4	4009.8	3972.3	3918.7	3913.3	3913.3
4422.3	5°	4349.9	4280.3	4146.4	4004.4	3841.0	3685.7	3530.3	3380.3	3332.1	3297.3
4534.8	7.5°	4435.6	4325.8	4114.2	3843.7	3533.0	3192.8	2954.4	2697.3	2598.2	2544.6
4684.8	10°	4558.9	4408.9	4087.4	3613.3	3109.8	2646.4	2306.2	2027.6	1920.5	1875.0
4848.1	12.5°	4695.5	4510.6	4039.2	3326.7	2646.4	2091.9	1759.8	1631.2	1615.2	1615.2
5043.7	15°	4858.9	4633.9	3956.2	2989.2	2161.6	1655.3	1537.5	1542.8	1558.9	1569.6
5233.9	17.5°	5027.6	4765.1	3824.9	2611.6	1733.0	1489.3	1491.9	1500.0	1513.4	1524.1
5440.1	20°	5209.7	4896.4	3650.8	2209.8	1486.6	1441.1	1449.1	1457.1	1467.8	1473.2
5633.0	22.5°	5405.3	5019.6	3444.6	1816.0	1403.6	1400.9	1403.6	1411.6	1425.0	1425.0
5858.0	25°	5614.2	5156.2	3208.9	1529.4	1360.7	1360.7	1366.1	1371.4	1382.1	1382.1
6074.9	27.5°	5828.5	5282.1	2959.8	1379.4	1323.2	1320.5	1320.5	1328.6	1333.9	1336.6
6289.2	30°	6064.2	5429.4	2710.7	1347.3	1293.7	1280.3	1272.3	1277.7	1283.0	1285.7
6514.2	32.5°	6305.3	5571.3	2488.4	1360.7	1264.3	1240.2	1213.4	1208.0	1208.0	1218.7
6747.2	35°	6573.1	5726.7	2316.9	1406.2	1248.2	1181.2	1138.4	1114.3	1116.9	1133.0
7025.8	37.5°	6894.5	5914.2	2191.0	1446.4	1237.5	1114.3	1044.6	1015.2	996.4	1015.2
7408.8	40°	7315.1	6190.1	2100.0	1478.5	1224.1	1036.6	942.8	894.6	859.8	870.5
8003.5	42.5°	7933.8	6624.0	2065.1	1481.2	1194.6	945.5	838.4	774.1	723.2	725.9
8898.1	45°	8801.7	7309.7	2244.6	1446.4	1130.3	846.4	728.6	642.8	610.7	602.7
10234.7	47.5°	9990.9	8308.8	2659.8	1374.1	1036.6	750.0	621.4	549.1	525.0	511.6
11989.1	50°	11584.7	9591.8	3120.5	1293.7	942.8	658.9	533.0	487.5	471.4	458.0
14070.3	52.5°	13432.8	10893.6	3498.2	1213.4	849.1	578.6	476.8	450.0	436.6	425.9
16079.2	55°	15128.4	11790.9	3476.7	1127.7	758.0	514.3	436.6	420.5	404.5	393.7
17809.6	57.5°	16183.7	11916.8	2866.0	1033.9	653.6	463.4	399.1	388.4	369.6	356.2
19306.9	60°	16668.5	11198.9	2008.9	910.7	549.1	415.2	358.9	353.6	329.5	310.7
20723.8	62.5°	16756.9	9865.0	1339.3	758.0	458.0	369.6	318.7	310.7	278.6	246.4
21875.6	65°	16398.0	7957.9	926.8	592.0	391.1	321.4	273.2	257.1	222.3	190.2
22148.8	67.5°	15262.3	5587.4	645.5	425.9	332.1	254.5	217.0	211.6	184.8	158.0
20755.9	70°	13181.1	3184.8	431.2	318.7	262.5	174.1	171.4	176.8	150.0	128.6
16957.8	72.5°	10106.1	1457.1	267.9	233.0	179.5	117.9	136.6	139.3	115.2	96.4
10580.2	75°	5949.0	624.1	168.7	150.0	91.1	77.7	99.1	101.8	77.7	61.6
3867.8	77.5°	2025.0	235.7	107.1	88.4	45.5	42.9	64.3	64.3	42.9	24.1
776.8	80°	460.7	88.4	53.6	34.8	21.4	18.7	21.4	18.7	10.7	2.7
238.4	82.5°	131.2	34.8	21.4	13.4	8.0	8.0	2.7	0.0	0.0	0.0
83.0	85°	37.5	16.1	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
29.5	87.5°	16.1	2.7	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

<u>180°</u>
4299.0
3926.7
3313.3
2552.6
1875.0
1615.2
1569.6
1524.1
1475.9
1430.3
1384.8
1339.3
1291.1
1226.8
1141.1
1009.8
865.2
715.2
592.0
503.6
455.4
423.2
388.4
353.6
305.4
230.4
179.5
150.0
117.9
85.7
53.6
18.7
0.0
0.0
0.0
0.0
0.0

F REPORT)