

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: P944108

Luminaire Tested: **GALN-SB8D-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37923 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

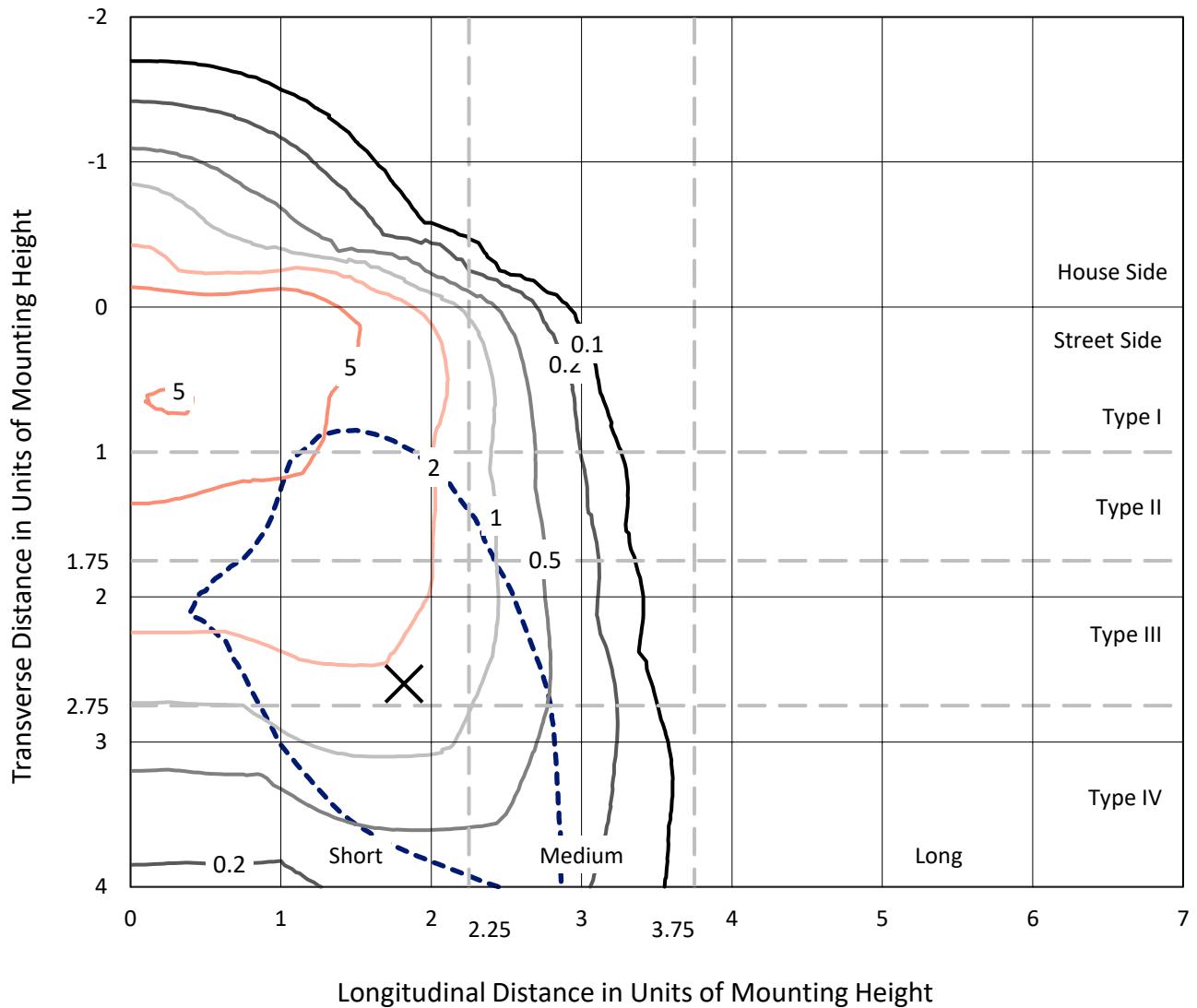
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944108
 CATALOG NUMBER: GALN-SB8D-927-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

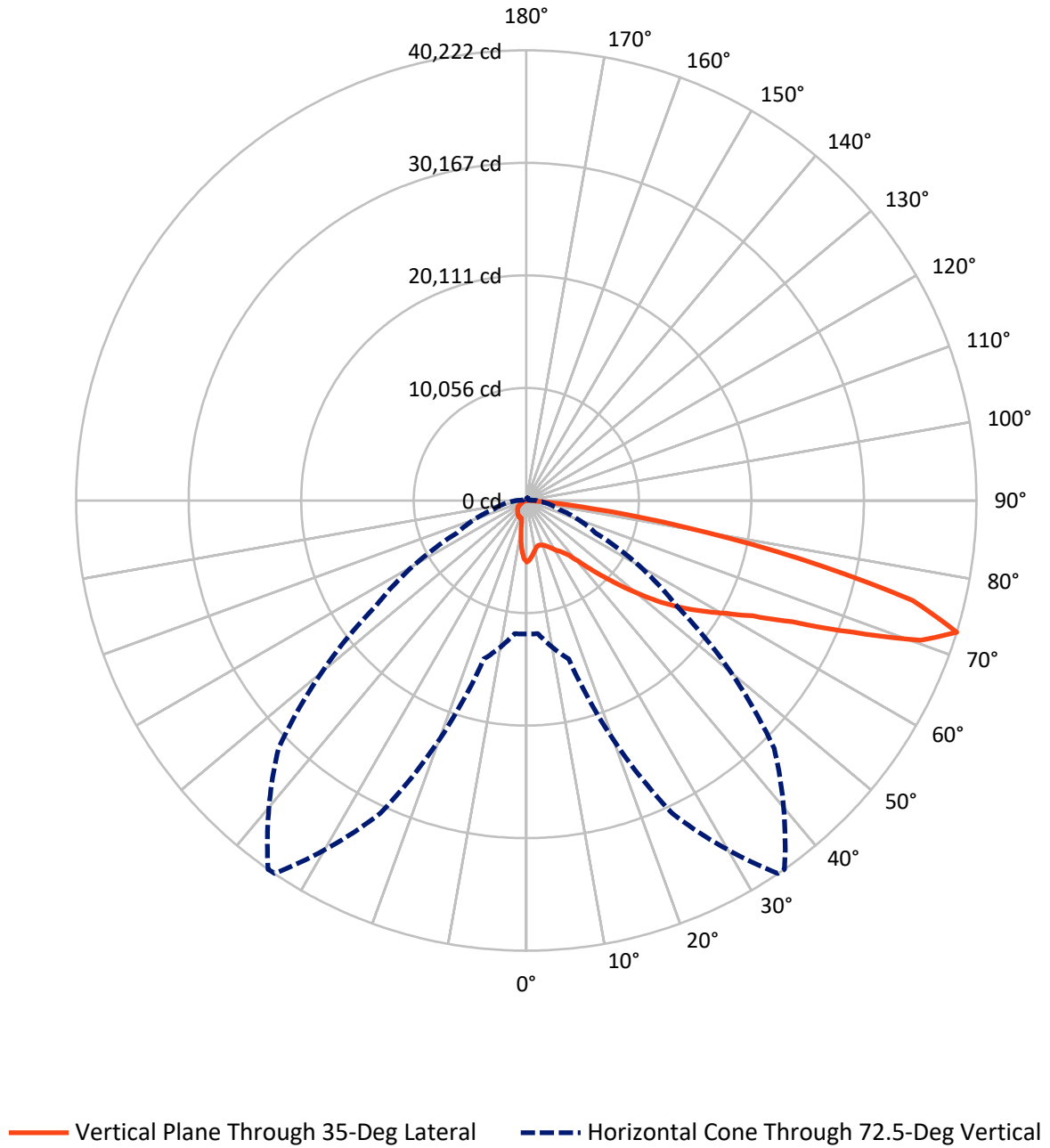
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P944108
CATALOG NUMBER: GALN-SB8D-927-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944108
 CATALOG NUMBER: GALN-SB8D-927-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4268.1	0.0	4268.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	33654.9	0.0	33654.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	37923.0	0.0	37923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.6	1.2
10°-20°	1056.6	2.8
20°-30°	1716.4	4.5
30°-40°	2863.8	7.6
40°-50°	5418.4	14.3
50°-60°	8609.7	22.7
60°-70°	10650.8	28.1
70°-80°	6620.6	17.5
80°-90°	535.1	1.4
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°	37923.0	100.0
0°-180°	37923.0	100.0

Coefficient of Utilization



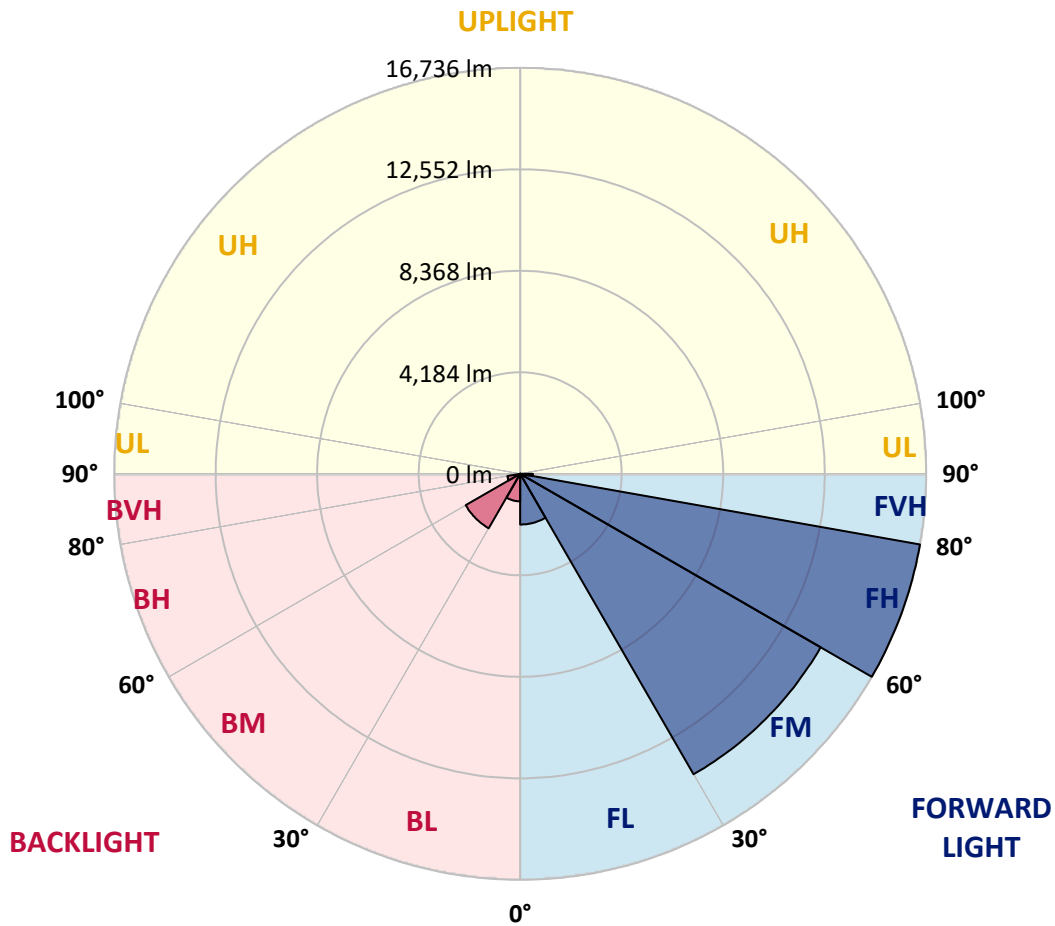
REPORT NUMBER: P944108
 CATALOG NUMBER: GALN-SB8D-927-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2090.5	5.5			
FM (30°-60°)	14300.8	37.7			
FH (60°-80°)	16735.9	44.1			G5
FVH (80°-90°)	527.8	1.4			G4/750
BL (0°-30°)	1134.1	3.0	B3/2500		
BM (30°-60°)	2591.1	6.8	B3/5000		
BH (60°-80°)	535.6	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P944108
 CATALOG NUMBER: GALN-SB8D-927-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3
2.5°	5251.8	5296.2	5304.6	5318.5	5318.5	5335.1	5362.9	5401.8	5465.7	5499.1
5°	4840.5	4873.9	4915.6	4948.9	5012.8	5021.2	5129.5	5235.1	5382.4	5493.5
7.5°	4426.5	4465.4	4521.0	4601.6	4684.9	4709.9	4873.9	5051.7	5285.1	5493.5
10°	4134.7	4137.5	4187.5	4268.1	4401.5	4432.1	4632.1	4885.0	5176.8	5460.2
12.5°	3970.8	3990.2	4012.5	4073.6	4201.4	4220.9	4434.8	4732.2	5068.4	5440.7
15°	3970.8	3984.7	3998.6	4029.1	4132.0	4148.6	4337.6	4634.9	5012.8	5449.1
17.5°	4012.5	4034.7	4023.6	4059.7	4168.1	4179.2	4345.9	4607.1	5010.0	5501.9
20°	4112.5	4129.2	4107.0	4129.2	4237.6	4259.8	4432.1	4659.9	5057.3	5593.6
22.5°	4270.9	4279.2	4226.4	4243.1	4354.3	4382.0	4582.1	4810.0	5171.2	5740.8
25°	4471.0	4487.6	4407.1	4426.5	4532.1	4565.4	4796.1	5035.0	5351.8	5943.7
27.5°	4701.6	4709.9	4640.5	4637.7	4773.8	4821.1	5054.5	5312.9	5593.6	6199.3
30°	4965.6	4990.6	4923.9	4912.8	5085.1	5124.0	5354.6	5654.7	5949.2	6582.8
32.5°	5174.0	5193.4	5154.5	5182.3	5357.4	5387.9	5718.6	6138.2	6507.8	7127.4
35°	5474.1	5485.2	5396.3	5446.3	5646.4	5724.2	6216.0	6816.2	7210.8	7811.0
37.5°	6560.6	6560.6	6182.7	5935.4	6127.1	6196.6	6896.8	7669.3	8077.7	8728.0
40°	8063.9	8038.8	7485.9	6980.2	6955.1	7091.3	7866.6	8744.6	9197.6	9828.3
42.5°	9667.2	9628.3	8875.2	8375.1	8291.7	8338.9	8986.4	10070.1	10531.4	11170.5
45°	11089.9	11078.8	10389.6	9717.2	9567.1	9717.2	10384.1	11620.6	11951.3	12623.7
47.5°	12282.0	12282.0	11779.0	11340.0	11262.2	11351.1	12276.4	13340.6	13310.1	14171.5
50°	13654.6	13643.5	13165.6	12976.6	13057.2	13182.3	14454.9	15152.4	14716.1	15691.4
52.5°	14616.1	14682.8	14518.8	14488.3	14899.5	15116.3	16666.8	16925.2	15974.9	17133.6
55°	15377.5	15455.3	15644.2	15858.2	16650.1	16933.5	18809.2	18606.3	17028.0	18384.0
57.5°	16455.6	16344.4	16636.2	17058.6	18339.6	18681.4	20884.9	20193.0	17875.5	19398.3
60°	17764.4	17781.0	17831.1	18364.6	20026.3	20465.3	22930.0	21693.5	18420.2	20020.7
62.5°	19337.1	19362.1	19465.0	20284.7	22290.9	22704.9	25108.5	22921.7	18670.2	19845.6
65°	19228.8	19334.4	20482.0	23285.7	25733.8	26142.2	27651.1	23783.1	18292.3	18245.1
67.5°	17517.1	17689.4	19609.4	26870.3	30924.4	31380.1	30724.3	23952.6	16661.2	14188.2
70°	15271.9	15333.0	17642.1	30093.6	36934.8	37396.1	33475.3	22088.1	12643.2	7913.8
72.5°	11926.3	11940.2	14649.4	30841.0	40197.0	40222.0	31316.2	16397.2	6799.5	3039.9
75°	8519.6	8436.2	9811.7	25011.3	35364.8	35648.2	23477.4	7691.5	2598.1	1436.6
77.5°	4568.2	4659.9	5551.9	14832.8	24430.5	24914.0	12809.9	2217.4	1322.7	978.1
80°	1411.6	1489.4	2275.8	6791.2	13838.0	14129.8	4748.8	986.4	922.5	697.5
82.5°	444.6	461.3	1061.5	2853.7	5743.6	5877.0	1375.5	558.5	630.8	461.3
85°	127.8	130.6	472.4	1064.3	1419.9	1447.7	386.2	216.7	361.2	286.2
87.5°	13.9	44.5	177.8	177.8	125.0	122.3	41.7	47.2	102.8	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944108
 CATALOG NUMBER: GALN-SB8D-927-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5496.3	0°	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3
5521.3	2.5°	5507.4	5510.2	5474.1	5413.0	5346.3	5290.7	5221.2	5165.6	5126.7	5115.6
5571.3	5°	5546.3	5526.9	5424.1	5237.9	5015.6	4823.9	4609.9	4440.4	4329.3	4282.0
5624.1	7.5°	5604.7	5549.1	5324.0	4957.2	4532.1	4154.2	3770.7	3473.4	3284.5	3190.0
5674.2	10°	5654.7	5543.6	5157.3	4551.5	3901.3	3328.9	2812.1	2453.6	2253.5	2159.1
5732.5	12.5°	5701.9	5540.8	4940.6	4070.8	3190.0	2489.7	2009.0	1831.2	1775.6	1756.2
5827.0	15°	5790.9	5549.1	4668.3	3520.6	2481.4	1881.2	1706.1	1703.4	1714.5	1708.9
5971.5	17.5°	5913.1	5557.4	4359.8	2937.1	1914.5	1658.9	1650.6	1675.6	1692.2	1683.9
6152.1	20°	6071.5	5590.8	4031.9	2359.1	1645.0	1603.3	1622.8	1645.0	1658.9	1645.0
6393.8	22.5°	6293.8	5649.1	3673.5	1895.1	1558.9	1570.0	1586.7	1611.7	1625.6	1606.1
6702.3	25°	6566.1	5740.8	3320.6	1647.8	1517.2	1531.1	1556.1	1583.9	1600.5	1581.1
7091.3	27.5°	6919.0	5888.1	2995.5	1592.2	1475.5	1483.8	1520.0	1561.6	1583.9	1558.9
7644.3	30°	7430.3	6129.9	2714.8	1617.2	1450.5	1431.0	1481.1	1539.4	1564.4	1542.2
8397.3	32.5°	8108.3	6471.6	2542.5	1656.1	1439.4	1369.9	1417.1	1492.2	1533.9	1520.0
9381.0	35°	8997.5	6991.3	2475.8	1700.6	1431.0	1306.0	1339.3	1419.9	1492.2	1506.1
10620.3	37.5°	10075.6	7713.7	2495.3	1720.0	1406.0	1253.2	1269.9	1339.3	1433.8	1478.3
12015.2	40°	11301.1	8555.7	2606.4	1700.6	1378.2	1208.7	1211.5	1264.3	1347.7	1414.4
13515.7	42.5°	12565.4	9539.4	2812.1	1628.3	1353.2	1169.8	1161.5	1197.6	1253.2	1300.4
15013.4	45°	13768.6	10550.8	3014.9	1528.3	1322.7	1130.9	1111.5	1125.4	1136.5	1155.9
16472.3	47.5°	14818.9	11262.2	2956.6	1436.6	1281.0	1086.5	1053.1	1047.6	1014.2	1011.5
17775.5	50°	15544.2	11417.8	2625.9	1344.9	1219.9	1036.5	983.7	950.3	892.0	864.2
18750.8	52.5°	15774.8	10803.7	2145.2	1253.2	1119.8	969.8	894.7	842.0	769.7	744.7
19312.1	55°	15469.2	9600.5	1714.5	1142.1	980.9	880.9	797.5	728.0	669.7	639.1
19373.3	57.5°	14721.7	8069.4	1356.0	1011.5	833.6	780.8	697.5	628.0	578.0	547.4
18695.2	60°	13482.4	6407.7	1072.6	855.8	711.4	672.5	586.3	541.9	497.4	461.3
16944.7	62.5°	11601.2	4573.8	842.0	678.0	594.6	550.2	500.2	466.8	414.0	364.0
13796.4	65°	9053.1	2798.2	650.2	497.4	477.9	455.7	425.1	394.6	330.7	280.7
9000.3	67.5°	5710.3	1325.5	464.0	375.1	377.9	366.8	352.9	327.9	280.7	236.2
4031.9	70°	2514.7	641.9	305.7	286.2	280.7	280.7	291.8	283.4	239.0	197.3
1400.5	72.5°	855.8	344.6	227.9	216.7	202.8	200.1	244.5	236.2	191.7	152.8
697.5	75°	447.4	230.6	166.7	155.6	122.3	147.3	194.5	183.4	136.2	100.0
461.3	77.5°	291.8	163.9	113.9	100.0	69.5	97.3	144.5	127.8	80.6	50.0
302.9	80°	183.4	108.4	66.7	47.2	33.3	52.8	77.8	55.6	30.6	11.1
177.8	82.5°	97.3	55.6	25.0	16.7	13.9	16.7	19.5	13.9	5.6	0.0
91.7	85°	38.9	19.5	8.3	5.6	2.8	0.0	5.6	2.8	0.0	0.0
16.7	87.5°	13.9	2.8	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>
5496.3
5135.1
4298.7
3203.9
2161.8
1750.6
1706.1
1681.1
1642.2
1603.3
1578.3
1558.9
1539.4
1520.0
1506.1
1489.4
1436.6
1319.9
1167.1
1008.7
867.0
741.9
639.1
541.9
452.9
355.7
272.3
230.6
189.0
144.5
91.7
44.5
8.3
0.0
0.0
0.0
0.0

F REPORT)