

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: P944184

Luminaire Tested: **GALN-SB9A-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944184
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-SB9A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 29836 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

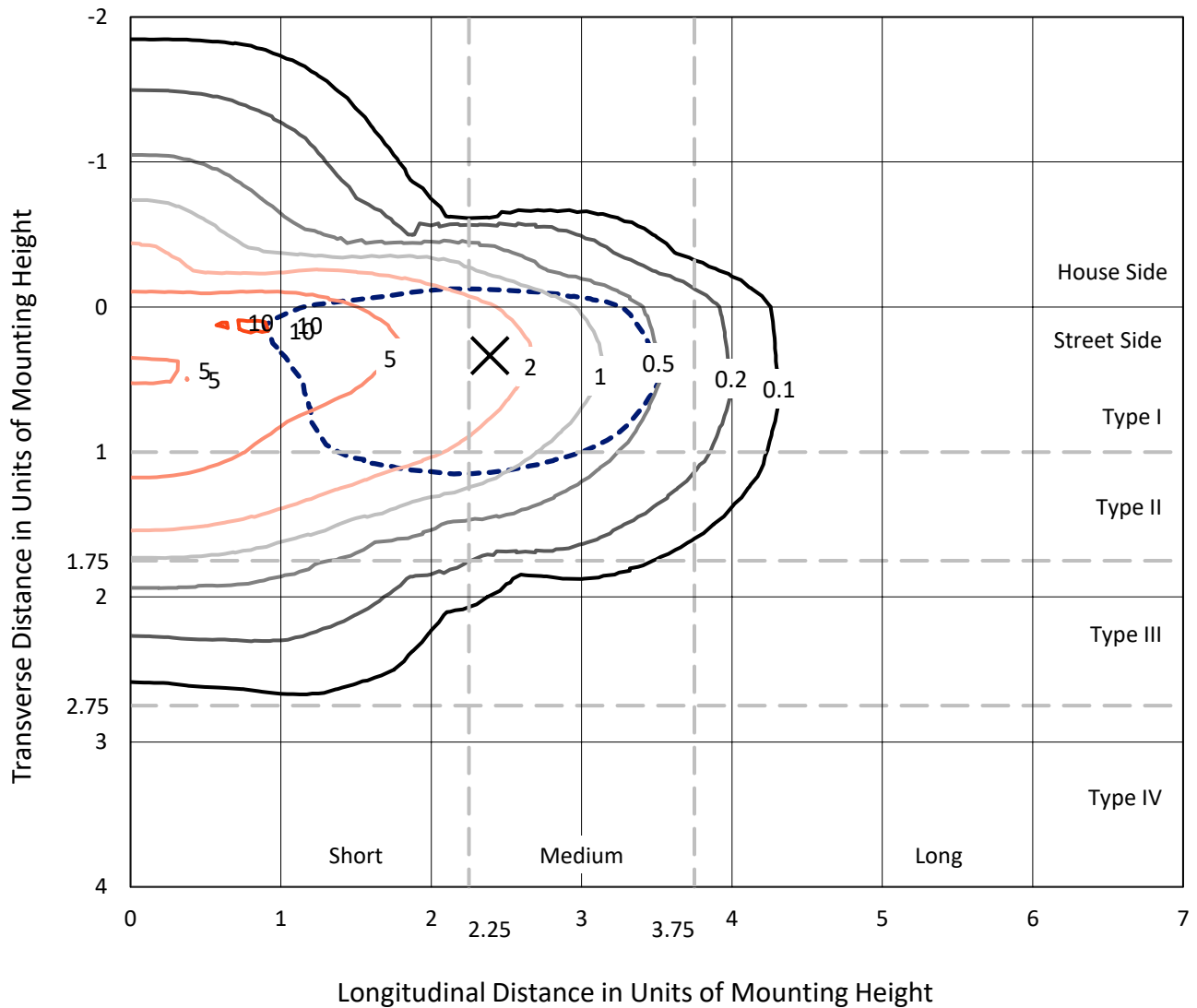
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944184
 CATALOG NUMBER: GALN-SB9A-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

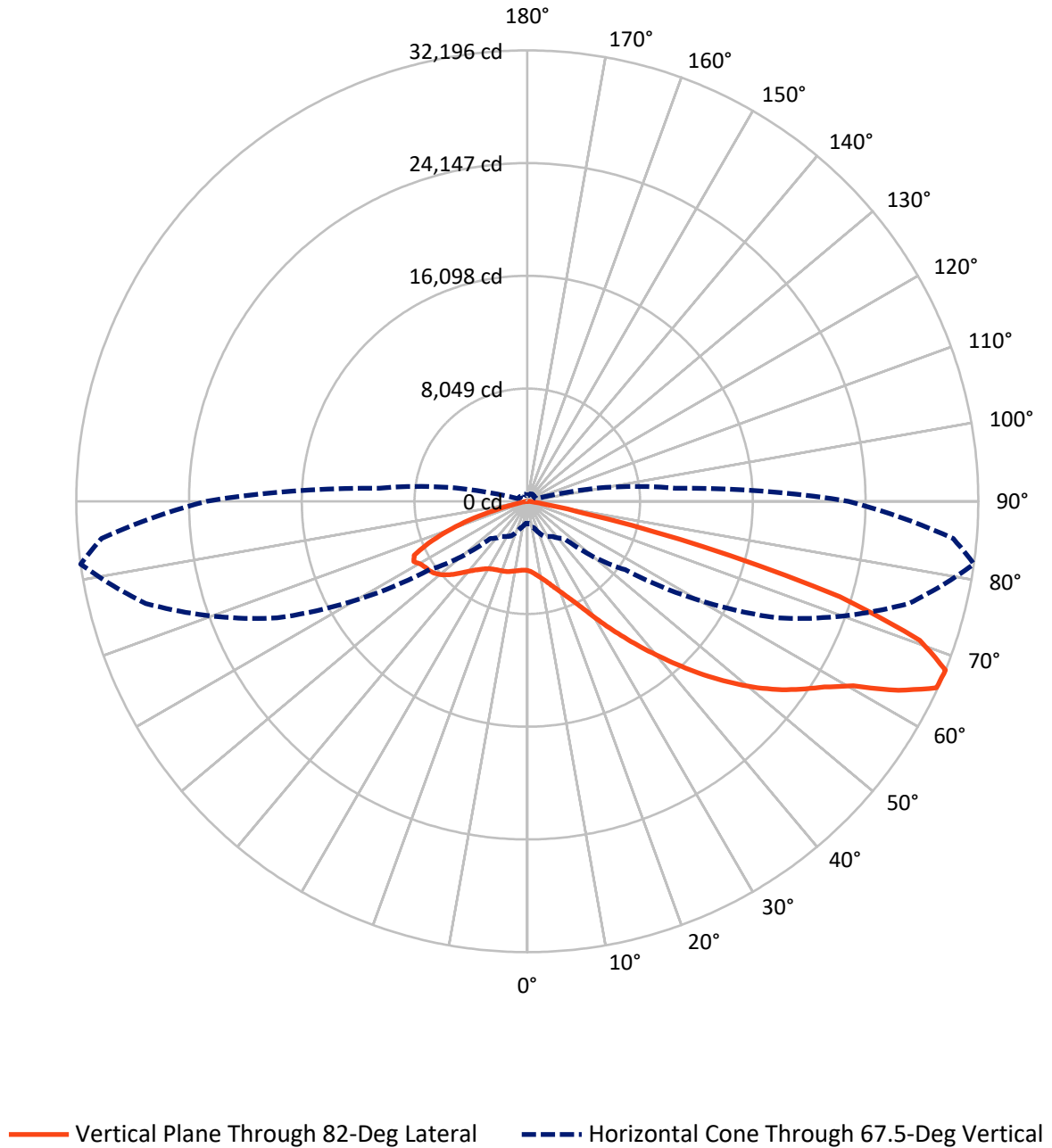
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P944184
CATALOG NUMBER: GALN-SB9A-735-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944184

CATALOG NUMBER: GALN-SB9A-735-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5404.5	0.0	5404.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24431.5	0.0	24431.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	29836.0	0.0	29836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.4	1.5
10°-20°	1144.3	3.8
20°-30°	1832.9	6.1
30°-40°	3241.1	10.9
40°-50°	5678.7	19.0
50°-60°	7573.8	25.4
60°-70°	7050.8	23.6
70°-80°	2706.1	9.1
80°-90°	168.1	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°	29836.0	100.0
0°-180°	29836.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944184

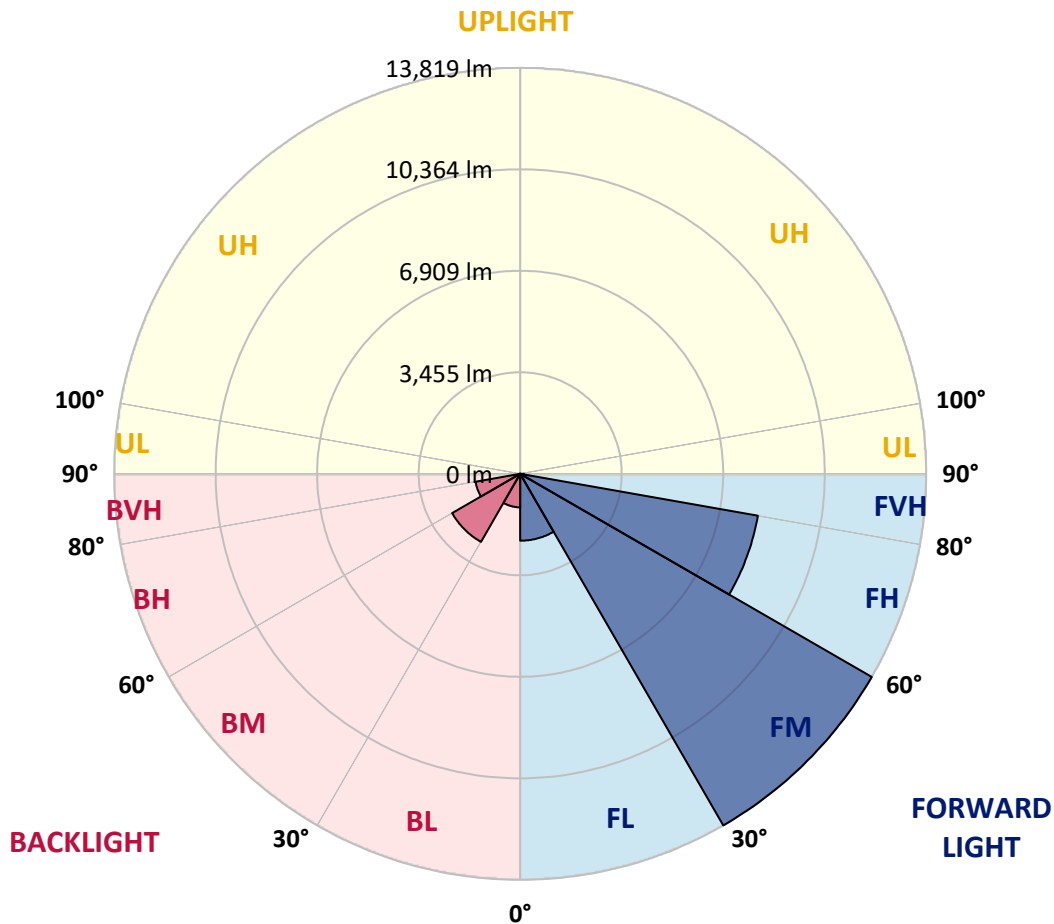
CATALOG NUMBER: GALN-SB9A-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2276.2	7.6			
FM (30°-60°)	13818.8	46.3			
FH (60°-80°)	8214.3	27.5			G4/12000
FVH (80°-90°)	122.2	0.4			G2/225
BL (0°-30°)	1141.4	3.8	B3/2500		
BM (30°-60°)	2674.7	9.0	B3/5000		
BH (60°-80°)	1542.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	45.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



REPORT NUMBER: P944184
 CATALOG NUMBER: GALN-SB9A-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8
2.5°	5224.2	5254.3	5237.1	5228.5	5213.5	5192.0	5174.8	5121.1	5065.3	5028.7
5°	5329.5	5359.6	5357.4	5366.0	5376.7	5383.2	5378.9	5318.7	5239.3	5177.0
7.5°	5239.3	5273.6	5301.6	5344.5	5419.7	5499.2	5537.8	5525.0	5443.3	5357.4
10°	4983.6	5020.1	5086.7	5187.7	5346.7	5518.5	5662.4	5729.0	5677.5	5583.0
12.5°	4515.3	4551.9	4682.9	4902.0	5168.4	5467.0	5741.9	5920.2	5933.1	5838.6
15°	3989.1	4025.6	4165.2	4440.2	4846.2	5325.2	5784.9	6122.1	6236.0	6154.4
17.5°	3662.5	3694.8	3800.0	4021.3	4444.5	5041.6	5769.8	6336.9	6596.9	6532.4
20°	3563.7	3591.7	3641.1	3795.7	4148.0	4747.3	5671.0	6538.9	6985.7	6949.2
22.5°	3669.0	3694.8	3709.8	3778.5	3999.8	4554.0	5546.4	6745.1	7436.8	7441.1
25°	3911.7	3937.5	3920.3	3963.3	4059.9	4493.9	5499.2	6987.8	8003.9	8051.1
27.5°	4311.3	4313.4	4272.6	4270.5	4285.5	4584.1	5548.6	7247.7	8719.2	8807.3
30°	5112.5	5080.3	4923.5	4753.8	4676.4	4854.7	5686.1	7554.9	9563.4	9720.2
32.5°	6347.7	6300.4	6012.6	5606.6	5198.4	5290.8	5933.1	7905.1	10482.8	10766.4
35°	7688.1	7675.2	7374.5	6770.9	6057.7	5911.6	6334.8	8364.8	11486.0	11937.1
37.5°	8934.0	8927.6	8755.7	8044.7	7176.9	6777.3	6979.2	8966.2	12560.0	13213.1
40°	10072.5	10091.9	9920.0	9284.2	8409.9	7887.9	7855.7	9709.5	13754.4	14602.9
42.5°	11056.4	11077.8	10903.8	10433.4	9627.9	9116.6	8931.9	10620.3	14920.8	16095.8
45°	11724.4	11857.6	11831.8	11455.9	10878.1	10347.5	10225.0	11763.1	16250.5	17679.0
47.5°	11913.5	12035.9	12229.2	12280.8	11928.5	11406.5	11552.6	13140.0	17595.2	19264.3
50°	11447.3	11561.2	11962.9	12497.7	12742.6	12581.5	12843.6	14615.8	18972.2	20845.3
52.5°	10527.9	10643.9	11150.9	11997.2	12996.1	13503.1	14138.9	16070.1	20306.1	22342.6
55°	9198.2	9320.7	9971.6	10929.6	12512.8	13883.3	15219.4	17522.2	21528.4	23689.4
57.5°	7389.5	7479.7	8156.4	9496.8	11296.9	13505.2	16016.4	19107.5	22679.8	25012.7
60°	4816.1	4895.6	5681.8	7176.9	9282.0	12242.1	16175.3	20875.4	24209.3	26733.3
62.5°	3202.8	3256.5	3722.7	4820.4	6536.7	9816.9	15245.2	22286.7	26451.9	29727.8
65°	2197.5	2251.2	2717.4	3482.1	4223.2	6493.8	12570.8	22099.8	28484.0	32105.7
67.5°	1568.1	1613.2	2008.5	2730.3	3056.8	3772.1	8521.6	19711.1	28191.9	32196.0
70°	1123.5	1149.2	1475.8	2126.6	2429.5	2266.3	4738.7	15075.5	24684.0	29729.9
72.5°	786.2	794.8	1024.7	1619.7	1956.9	1654.0	2255.5	10051.0	18669.3	23335.0
75°	532.7	543.5	689.5	1187.9	1570.3	1263.1	1194.4	5389.6	10959.7	12916.6
77.5°	326.5	330.8	444.7	812.0	1175.0	962.4	769.0	2283.4	4240.4	4163.0
80°	184.7	184.7	283.6	504.8	801.2	620.8	539.2	970.9	1342.6	1179.3
82.5°	103.1	105.3	206.2	313.6	530.6	367.3	296.4	449.0	580.0	513.4
85°	43.0	47.3	126.7	148.2	253.5	182.6	120.3	189.0	214.8	191.2
87.5°	4.3	6.4	38.7	27.9	30.1	36.5	17.2	36.5	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944184
 CATALOG NUMBER: GALN-SB9A-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4942.8	0°	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8
5015.9	2.5°	4975.0	4942.8	4861.2	4766.7	4642.1	4581.9	4500.3	4444.5	4397.2	4401.5
5140.4	5°	5071.7	4990.1	4807.5	4579.8	4296.2	4094.3	3879.5	3731.3	3611.0	3585.2
5312.3	7.5°	5204.9	5076.0	4755.9	4345.6	3866.6	3503.6	3179.2	2970.8	2822.6	2775.4
5520.7	10°	5376.7	5189.8	4689.3	4051.3	3361.8	2900.0	2552.0	2388.7	2287.7	2253.4
5765.5	12.5°	5576.5	5320.9	4601.3	3692.6	2842.0	2397.3	2176.0	2094.4	2062.2	2051.5
6066.3	15°	5827.8	5484.1	4468.1	3267.3	2401.6	2090.1	1995.6	1984.9	1989.2	1984.9
6427.2	17.5°	6126.4	5662.4	4251.1	2829.1	2105.2	1933.3	1898.9	1907.5	1918.3	1916.1
6831.0	20°	6452.9	5838.6	3974.0	2440.3	1903.2	1821.6	1802.3	1810.9	1819.5	1815.2
7297.2	22.5°	6824.6	6027.6	3666.8	2137.4	1767.9	1718.5	1697.0	1699.2	1699.2	1690.6
7887.9	25°	7269.2	6236.0	3344.6	1922.6	1664.8	1626.1	1600.3	1591.8	1578.9	1553.1
8605.4	27.5°	7799.8	6457.2	3035.3	1772.2	1583.2	1546.6	1516.6	1495.1	1462.9	1419.9
9466.7	30°	8397.0	6725.8	2773.2	1677.7	1518.7	1482.2	1447.8	1415.6	1368.4	1314.6
10457.0	32.5°	9099.4	7013.6	2582.0	1615.4	1460.7	1422.1	1381.2	1342.6	1291.0	1237.3
11569.8	35°	9937.2	7361.6	2470.3	1572.4	1415.6	1364.1	1318.9	1276.0	1237.3	1190.1
12779.1	37.5°	10845.8	7731.1	2436.0	1550.9	1385.5	1306.1	1254.5	1224.4	1220.1	1192.2
14087.3	40°	11840.4	8169.3	2461.7	1538.1	1353.3	1250.2	1194.4	1187.9	1198.6	1149.2
15485.8	42.5°	12893.0	8689.1	2504.7	1523.0	1308.2	1194.4	1140.6	1140.6	1132.1	1063.3
16963.7	45°	14031.5	9288.5	2547.7	1486.5	1254.5	1138.5	1097.7	1082.7	1046.1	979.5
18450.2	47.5°	15178.6	9898.5	2579.9	1419.9	1190.1	1091.2	1054.7	1020.4	966.7	906.5
19908.7	50°	16267.7	10446.3	2545.5	1321.1	1117.0	1046.1	1007.5	960.2	902.2	861.4
21290.0	52.5°	17240.8	10921.0	2399.4	1205.1	1039.7	998.9	964.5	915.1	867.8	824.9
22535.9	55°	18087.1	11305.5	2141.7	1095.5	970.9	958.1	923.7	861.4	797.0	760.4
23771.1	57.5°	18899.1	11597.7	1819.5	1005.3	908.7	912.9	861.4	805.5	745.4	706.7
25435.8	60°	19979.6	11988.6	1492.9	921.5	842.1	855.0	799.1	758.3	683.1	633.7
28290.7	62.5°	21706.7	12596.6	1185.8	818.4	764.7	769.0	745.4	696.0	605.8	547.8
30406.6	65°	23077.2	12373.1	934.4	706.7	676.7	683.1	683.1	629.4	532.7	466.1
30520.4	67.5°	22922.5	10594.5	745.4	597.2	592.9	597.2	612.2	567.1	472.6	418.9
28196.2	70°	21116.0	8427.1	597.2	496.2	515.5	504.8	547.8	517.7	425.3	371.6
21859.2	72.5°	17230.0	6070.6	455.4	410.3	395.3	412.4	494.1	466.1	354.4	294.3
11578.3	75°	10068.2	3239.4	339.4	324.4	285.7	343.7	438.2	397.4	270.7	217.0
3548.7	77.5°	3278.0	1129.9	249.2	238.4	212.7	277.1	373.8	335.1	221.3	171.8
1039.7	80°	878.6	341.6	169.7	156.8	137.5	206.2	296.4	266.4	159.0	111.7
446.8	82.5°	352.3	143.9	98.8	88.1	75.2	141.8	234.1	214.8	118.1	70.9
139.6	85°	113.9	47.3	36.5	27.9	34.4	88.1	139.6	146.1	83.8	36.5
21.5	87.5°	15.0	6.4	6.4	8.6	6.4	15.0	43.0	40.8	23.6	4.3
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>
4942.8
4358.5
3527.2
2728.1
2227.6
2045.0
1982.7
1911.8
1813.0
1686.3
1548.8
1415.6
1310.4
1239.5
1185.8
1190.1
1151.4
1063.3
977.4
904.4
855.0
820.6
756.1
702.4
627.2
543.5
459.7
410.3
365.2
287.8
210.5
165.4
109.6
70.9
27.9
0.0
0.0

F REPORT)