

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: P950172

Luminaire Tested: **GALN-SB4C-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20406 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

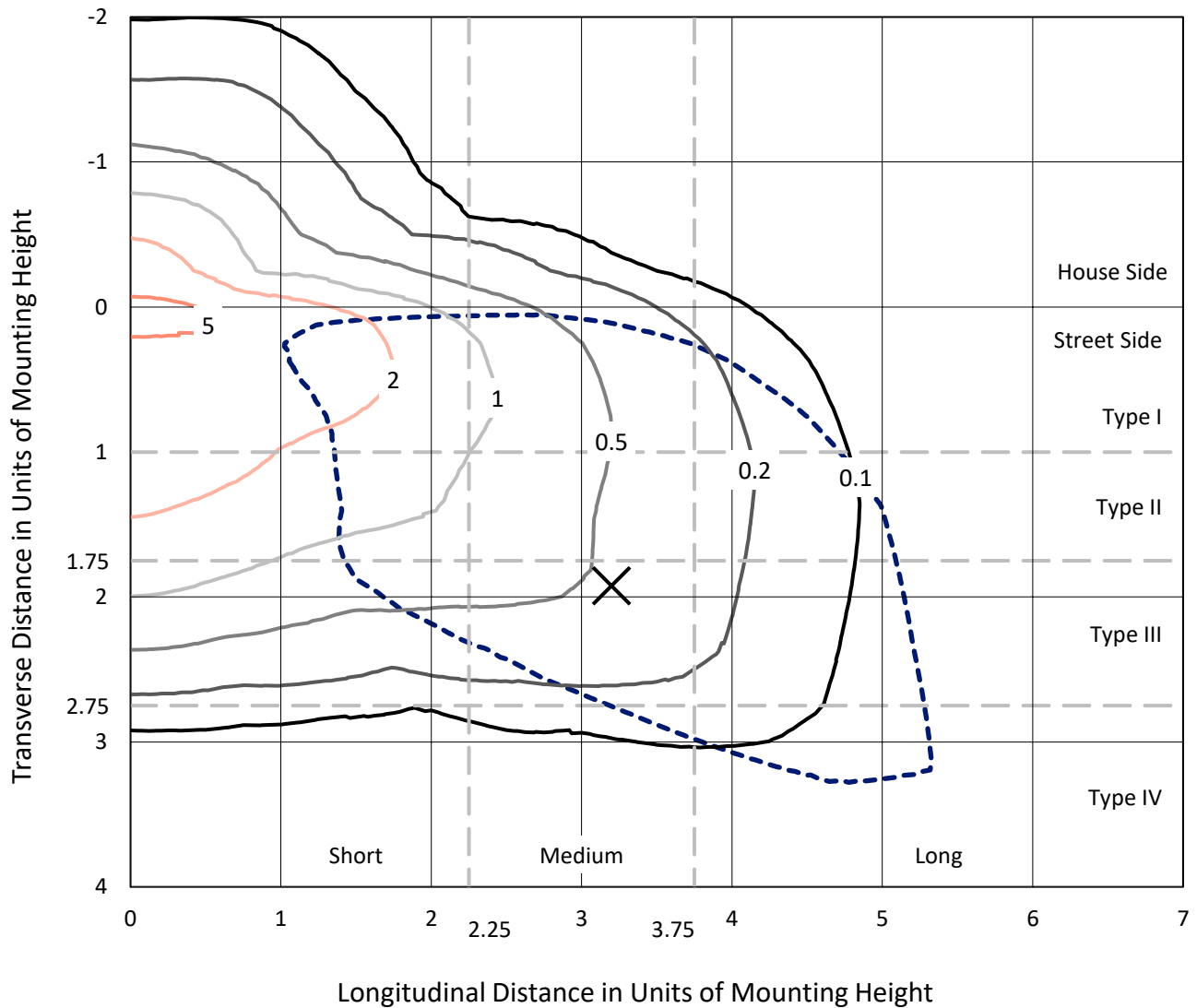
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950172
 CATALOG NUMBER: GALN-SB4C-950-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

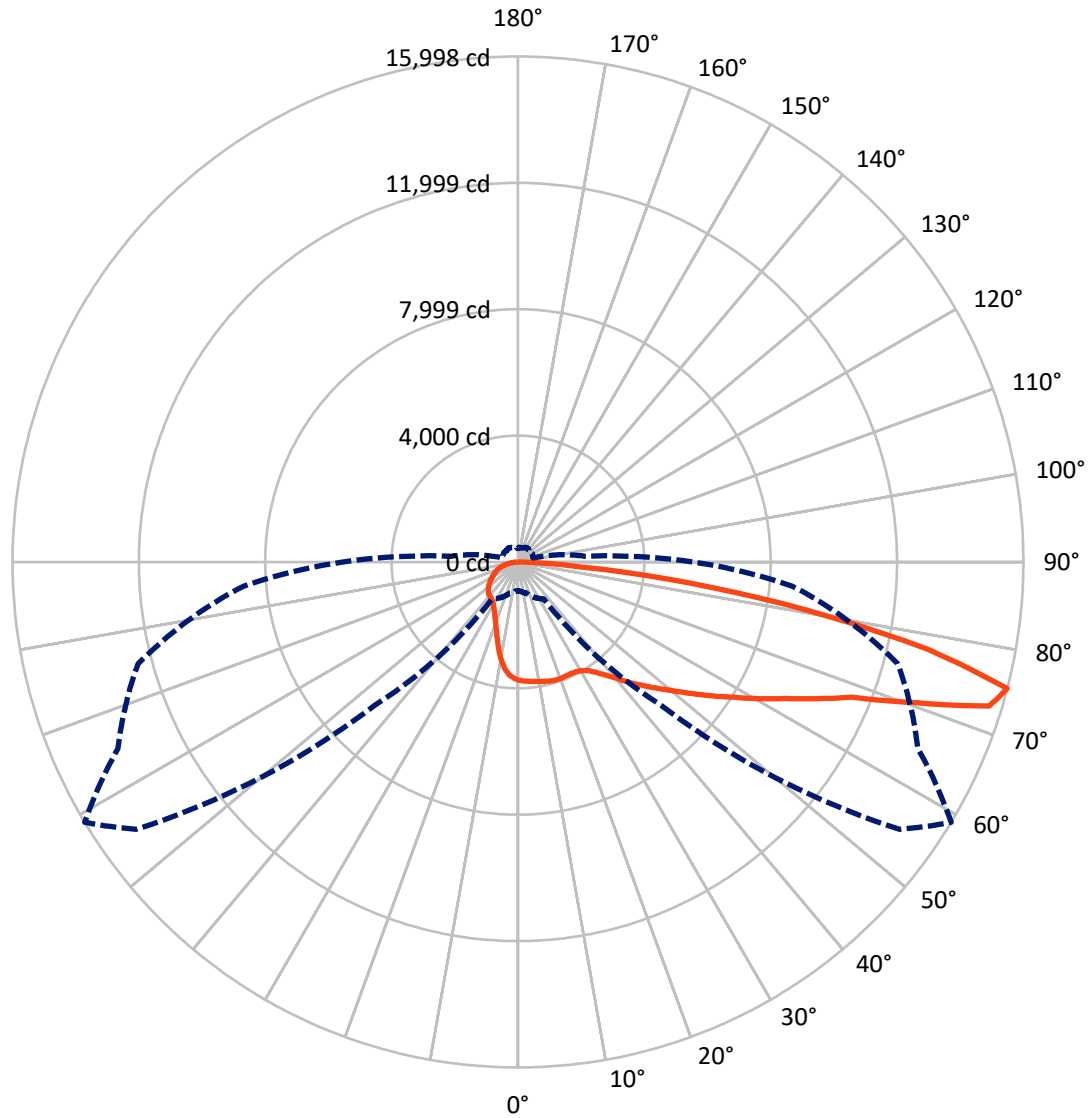
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P950172
CATALOG NUMBER: GALN-SB4C-950-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P950172
 CATALOG NUMBER: GALN-SB4C-950-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3827.3	0.0	3827.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16578.7	0.0	16578.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	20406.0	0.0	20406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.8	1.6
10°-20°	858.4	4.2
20°-30°	1303.9	6.4
30°-40°	1938.2	9.5
40°-50°	2882.4	14.1
50°-60°	3912.6	19.2
60°-70°	4776.6	23.4
70°-80°	3748.6	18.4
80°-90°	649.4	3.2
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°	20406.0	100.0
0°-180°	20406.0	100.0

Coefficient of Utilization



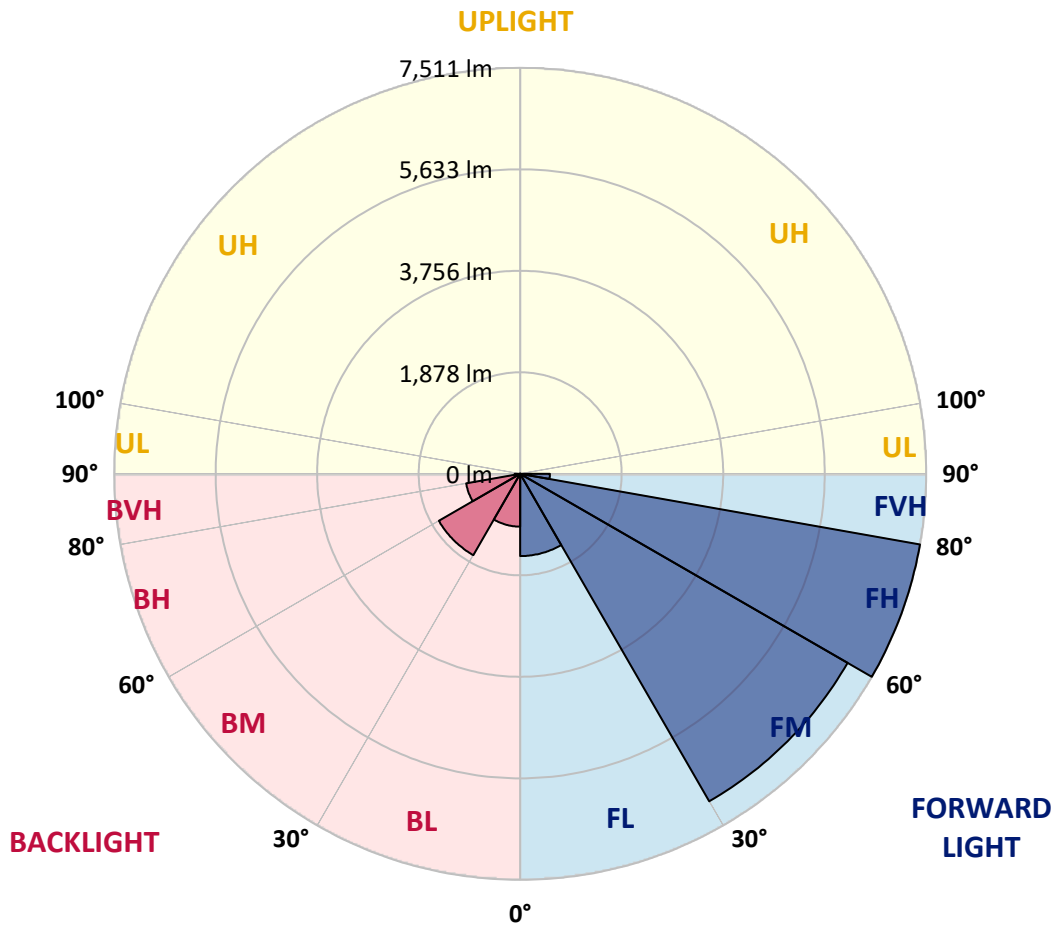
REPORT NUMBER: P950172
 CATALOG NUMBER: GALN-SB4C-950-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.5	7.5			
FM (30°-60°)	6996.0	34.3			
FH (60°-80°)	7511.3	36.8			G4/12000
FVH (80°-90°)	550.0	2.7			G4/750
BL (0°-30°)	976.7	4.8	B2/1000		
BM (30°-60°)	1737.2	8.5	B2/2500		
BH (60°-80°)	1014.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	99.4	0.5			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 IV Medium



REPORT NUMBER: P950172
 CATALOG NUMBER: GALN-SB4C-950-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5
2.5°	3777.3	3764.1	3777.3	3771.8	3769.6	3765.2	3766.3	3774.0	3769.6	3775.1
5°	3752.1	3744.4	3757.6	3754.3	3768.5	3770.7	3785.0	3793.8	3799.3	3800.4
7.5°	3710.3	3702.7	3721.3	3736.7	3767.4	3776.2	3805.9	3820.1	3827.8	3841.0
10°	3557.8	3554.5	3600.6	3658.8	3731.2	3776.2	3821.2	3845.4	3857.4	3892.6
12.5°	3287.7	3292.1	3352.5	3464.5	3609.4	3754.3	3838.8	3873.9	3892.6	3936.5
15°	3029.8	3028.7	3094.5	3214.2	3417.3	3657.7	3847.6	3907.9	3939.8	4004.5
17.5°	2880.5	2876.1	2922.2	3013.3	3202.1	3509.5	3825.6	3926.6	3994.7	4075.9
20°	2853.0	2844.2	2868.4	2913.4	3047.3	3347.0	3768.5	3926.6	4038.6	4144.0
22.5°	2952.9	2938.6	2928.8	2923.3	2982.5	3213.1	3703.8	3913.4	4103.3	4241.7
25°	3153.8	3131.8	3081.3	3031.9	3014.4	3152.7	3646.7	3910.1	4199.9	4373.4
27.5°	3478.7	3451.3	3349.2	3230.6	3124.2	3183.4	3621.4	3929.9	4306.4	4512.8
30°	3881.6	3852.0	3723.5	3541.3	3350.3	3297.6	3653.3	3988.1	4442.5	4698.3
32.5°	4242.8	4209.8	4100.0	3914.5	3656.6	3495.2	3754.3	4098.9	4656.6	4956.3
35°	4563.3	4524.9	4426.1	4254.8	4032.0	3772.9	3936.5	4295.4	4960.7	5375.6
37.5°	4877.2	4832.2	4724.7	4543.5	4387.7	4142.9	4187.9	4547.9	5364.6	5885.0
40°	5228.5	5163.8	5033.1	4854.2	4702.7	4576.5	4518.3	4857.5	5775.2	6453.6
42.5°	5568.8	5507.3	5351.5	5198.9	5009.0	4972.7	4901.4	5219.7	6224.2	7078.2
45°	5935.5	5861.9	5673.1	5479.9	5360.2	5236.2	5272.4	5582.0	6664.4	7714.9
47.5°	6279.1	6196.7	5973.9	5758.7	5692.9	5457.9	5612.7	5980.5	7122.1	8360.4
50°	6464.6	6383.3	6197.8	6003.5	5951.9	5731.3	5981.6	6418.5	7601.8	9003.6
52.5°	6619.3	6531.5	6288.9	6181.4	6166.0	6028.8	6436.0	6919.0	8081.5	9572.3
55°	6784.0	6686.3	6376.7	6280.1	6350.4	6362.5	6975.0	7486.6	8588.7	10126.6
57.5°	6973.9	6849.9	6461.3	6363.6	6530.4	6753.3	7594.1	8074.9	9087.1	10640.4
60°	7152.8	7027.7	6623.7	6496.4	6724.7	7206.6	8304.4	8787.4	9651.3	11098.1
62.5°	7188.0	7084.8	6753.3	6752.2	6988.2	7735.7	9145.2	9506.4	10144.2	11550.4
65°	6579.8	6515.1	6318.6	6742.3	7365.8	8497.6	10081.6	10426.3	10771.0	11945.6
67.5°	5007.9	5016.7	5002.4	5820.2	7060.6	9592.0	11437.3	11411.0	11544.9	12389.1
70°	2289.9	2341.5	2677.4	4017.7	5656.6	9718.3	13678.9	13337.5	12516.4	12963.2
72.5°	1237.1	1276.7	1413.9	1946.3	3400.8	8640.3	15354.0	15596.6	13808.4	13349.6
75°	907.8	929.8	1025.3	1237.1	1428.2	6421.8	14753.6	15998.4	13969.8	12448.3
77.5°	679.5	689.4	767.3	980.3	731.1	3385.4	11788.6	13249.7	11958.7	10227.6
80°	492.9	503.9	562.0	735.5	512.6	1238.2	8094.7	9300.0	8190.2	6519.5
82.5°	340.3	344.7	369.9	500.6	357.9	480.8	4592.9	5453.6	4572.1	2287.7
85°	205.3	210.8	221.7	292.0	203.1	228.3	1982.5	2050.6	1366.7	546.7
87.5°	84.5	90.0	98.8	122.9	80.1	63.7	327.1	410.6	255.8	160.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950172
 CATALOG NUMBER: GALN-SB4C-950-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3745.5	0°	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5	3745.5
3756.5	2.5°	3751.0	3743.3	3722.4	3693.9	3667.5	3634.6	3620.3	3608.3	3597.3	3576.4
3786.1	5°	3774.0	3753.2	3697.2	3624.7	3542.4	3452.4	3364.6	3304.2	3252.6	3214.2
3820.1	7.5°	3809.1	3769.6	3667.5	3519.3	3330.5	3137.3	2962.8	2838.7	2745.4	2711.4
3868.4	10°	3845.4	3798.2	3620.3	3359.1	3033.0	2735.6	2503.9	2376.6	2302.0	2277.8
3925.5	12.5°	3888.2	3819.0	3546.8	3136.2	2700.4	2374.4	2172.4	2097.8	2059.4	2046.2
3995.8	15°	3950.8	3836.6	3435.9	2857.4	2383.2	2110.9	1980.3	1928.7	1909.0	1907.9
4068.2	17.5°	3998.0	3839.9	3263.6	2558.8	2139.5	1951.8	1844.2	1824.4	1837.6	1857.4
4139.6	20°	4050.6	3810.2	3037.4	2286.6	1968.2	1812.4	1767.4	1780.5	1812.4	1840.9
4234.0	22.5°	4088.0	3756.5	2764.1	2074.7	1820.0	1732.2	1730.0	1757.5	1775.0	1789.3
4344.8	25°	4120.9	3665.3	2474.3	1896.9	1698.2	1683.9	1708.1	1699.3	1687.2	1699.3
4455.7	27.5°	4145.1	3521.5	2215.2	1741.0	1612.6	1651.0	1636.7	1617.0	1615.9	1622.5
4586.3	30°	4137.4	3329.4	2002.3	1592.8	1552.2	1589.5	1555.5	1552.2	1548.9	1552.2
4782.8	32.5°	4137.4	3111.0	1838.7	1490.7	1513.8	1499.5	1496.2	1488.5	1475.4	1474.3
5049.6	35°	4160.4	2892.5	1698.2	1435.8	1481.9	1447.9	1450.1	1431.4	1404.0	1390.8
5403.1	37.5°	4207.6	2716.9	1558.8	1409.5	1426.0	1424.9	1416.1	1384.2	1335.9	1294.2
5844.3	40°	4321.8	2665.3	1463.3	1397.4	1399.6	1412.8	1389.7	1328.3	1218.5	1150.4
6292.2	42.5°	4500.7	2752.0	1442.4	1367.8	1382.0	1395.2	1350.2	1207.5	1129.6	1089.0
6762.1	45°	4727.9	2903.5	1487.4	1325.0	1340.3	1363.4	1229.5	1161.4	1126.3	1127.4
7227.5	47.5°	5015.6	3062.7	1570.9	1287.6	1280.0	1293.1	1149.3	1107.6	1059.3	1071.4
7674.3	50°	5348.2	3224.1	1649.9	1237.1	1213.0	1170.2	1097.7	1058.2	996.7	968.2
8105.7	52.5°	5708.2	3379.9	1681.7	1175.7	1140.5	1091.1	1062.6	1014.3	939.7	892.5
8512.9	55°	6049.6	3521.5	1646.6	1102.1	1068.1	1029.7	1025.3	995.6	915.5	849.6
8875.2	57.5°	6372.4	3640.1	1558.8	1027.5	994.5	971.5	1001.1	986.9	885.9	801.3
9217.7	60°	6645.7	3721.3	1431.4	951.7	928.7	916.6	961.6	957.2	844.2	749.8
9525.1	62.5°	6863.0	3753.2	1290.9	879.3	873.8	851.8	906.7	906.7	791.5	699.3
9795.1	65°	7033.2	3722.4	1148.2	807.9	818.9	786.0	839.8	833.2	735.5	654.3
10105.8	67.5°	7183.6	3621.4	990.2	737.7	762.9	721.2	769.5	754.1	674.0	609.2
10374.7	70°	7250.5	3386.5	810.1	667.4	698.2	657.5	699.3	670.7	604.9	560.9
10079.4	72.5°	6712.7	2814.6	637.8	593.9	620.2	587.3	623.5	590.6	530.2	510.4
8704.0	75°	5553.4	2112.0	490.7	513.7	533.5	508.3	532.4	508.3	453.4	467.6
6429.4	77.5°	4033.1	1426.0	375.4	429.2	438.0	424.8	445.7	418.2	368.8	365.5
3204.3	80°	2005.6	835.4	294.2	339.2	335.9	327.1	351.3	338.1	296.4	314.0
865.0	82.5°	580.7	357.9	214.1	238.2	231.6	233.8	251.4	258.0	386.4	383.1
268.9	85°	182.2	140.5	128.4	132.8	126.2	129.5	148.2	294.2	272.2	159.2
83.4	87.5°	47.2	48.3	31.8	34.0	35.1	41.7	47.2	178.9	85.6	56.0
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>
3745.5
3566.5
3182.3
2652.1
2240.5
2049.5
1912.3
1865.1
1850.8
1797.0
1707.0
1633.4
1564.3
1488.5
1404.0
1308.5
1159.2
1089.0
1132.9
1102.1
975.9
891.4
849.6
797.0
746.5
696.0
649.9
604.9
552.2
494.0
427.0
349.1
310.7
391.9
172.3
59.3
0.0

F REPORT)