

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: P942527

Luminaire Tested: **GALN-SB6C-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39517 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

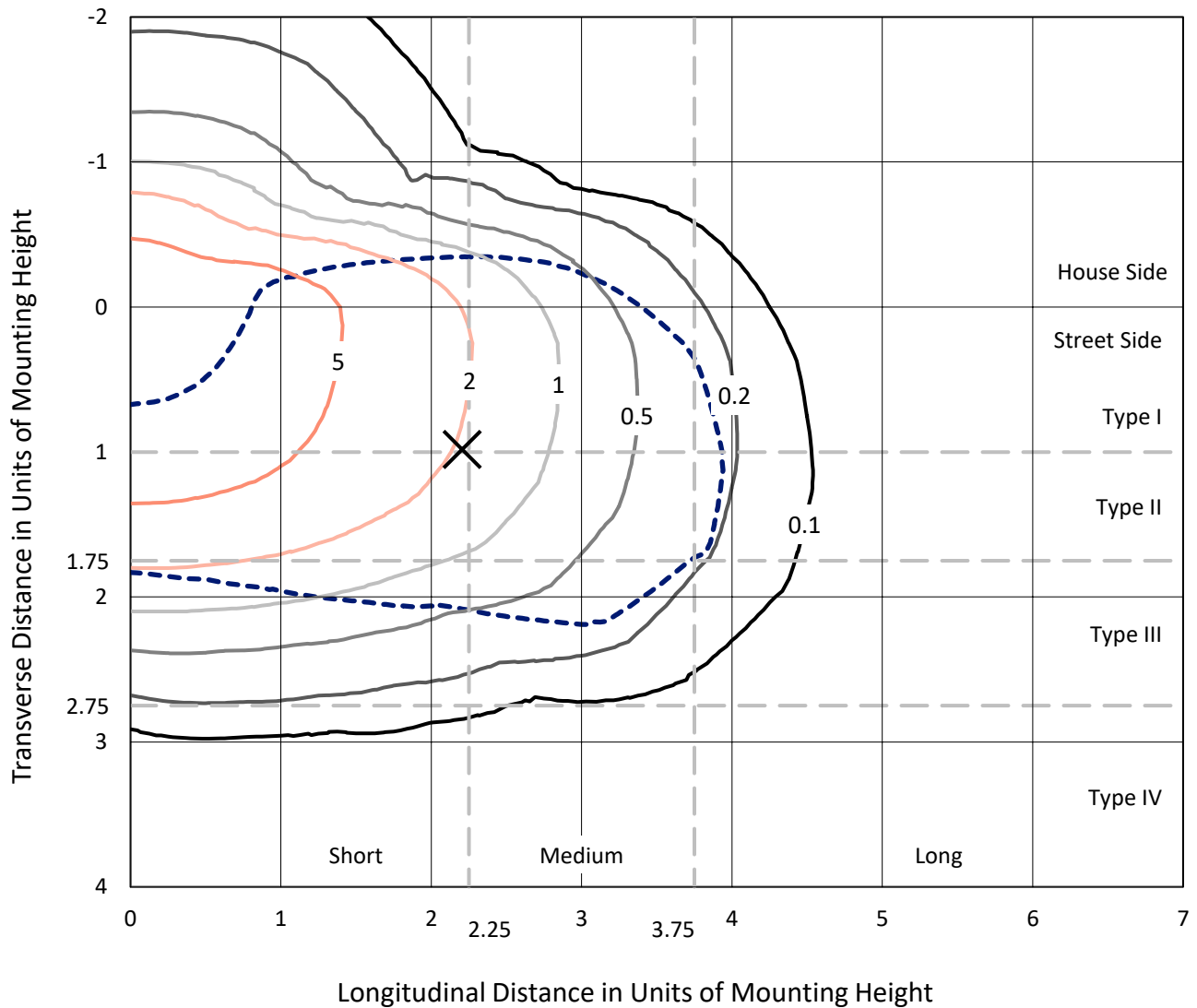
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942527
 CATALOG NUMBER: GALN-SB6C-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

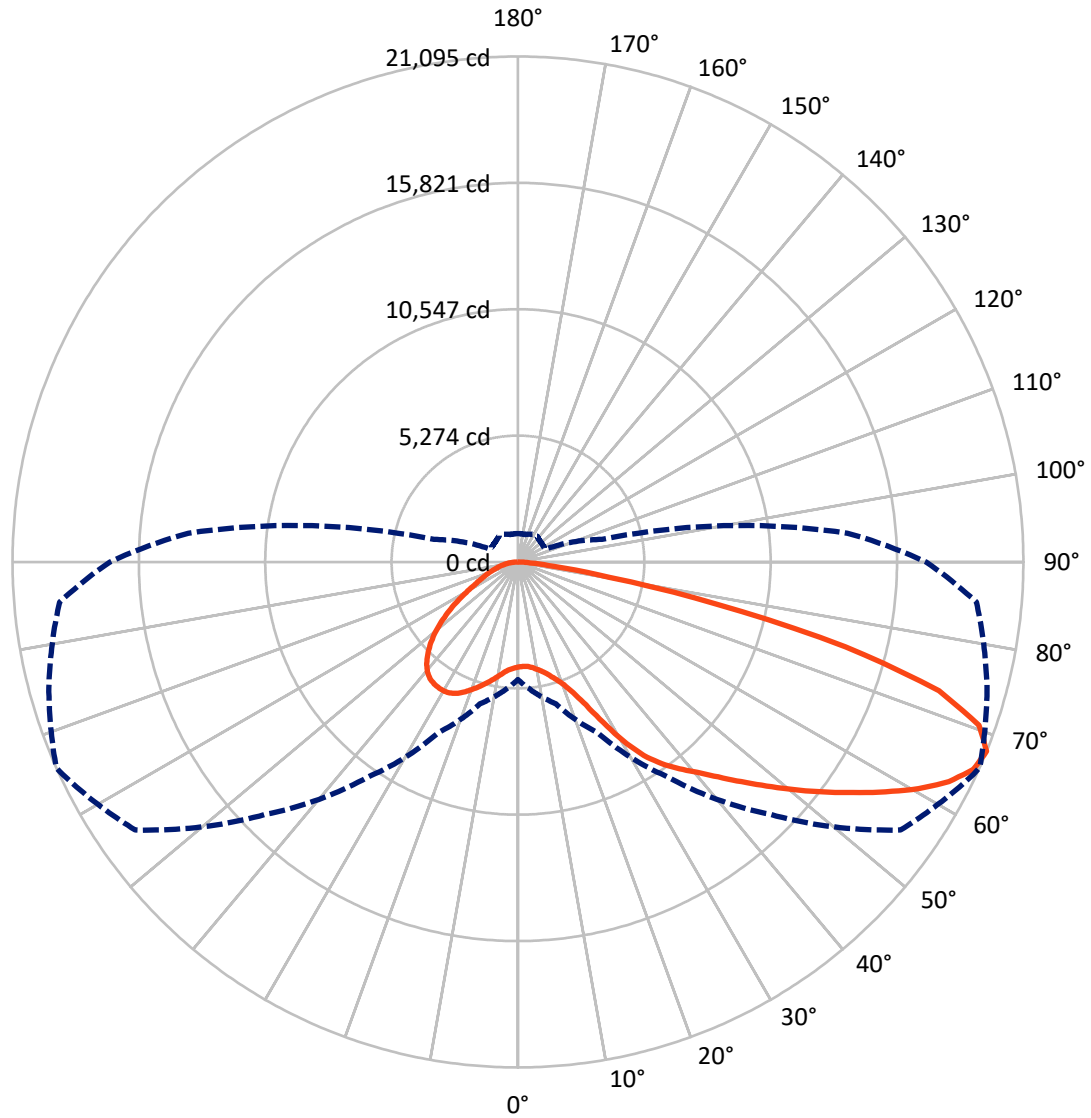
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

REPORT NUMBER: P942527
CATALOG NUMBER: GALN-SB6C-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P942527
 CATALOG NUMBER: GALN-SB6C-827-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9825.8	0.0	9825.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	29691.2	0.0	29691.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	39517.0	0.0	39517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.6	1.1
10°-20°	1435.7	3.6
20°-30°	2767.2	7.0
30°-40°	4852.0	12.3
40°-50°	7213.3	18.3
50°-60°	9143.6	23.1
60°-70°	8946.8	22.6
70°-80°	4267.7	10.8
80°-90°	456.1	1.2
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°	39517.0	100.0
0°-180°	39517.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942527

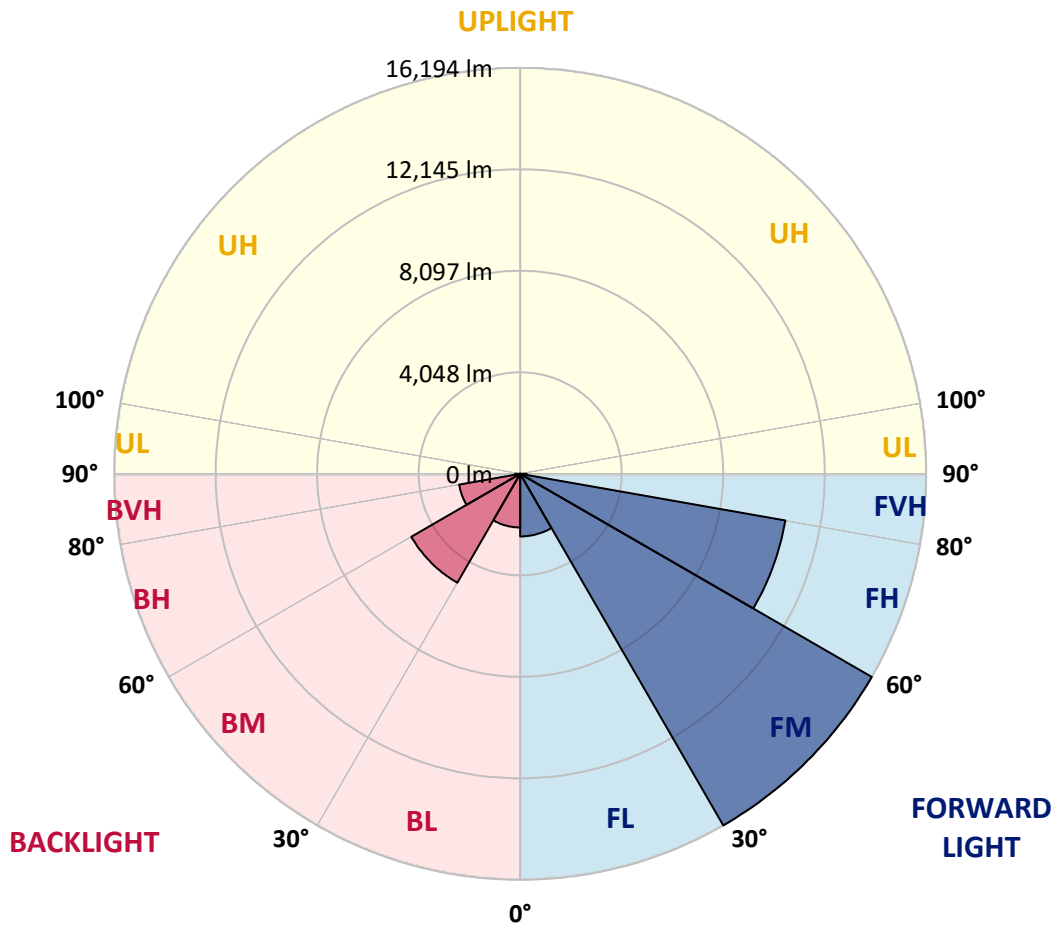
CATALOG NUMBER: GALN-SB6C-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2497.1	6.3			
FM (30°-60°)	16193.7	41.0			
FH (60°-80°)	10741.8	27.2			G4/12000
FVH (80°-90°)	258.6	0.7			G3/500
BL (0°-30°)	2140.4	5.4	B3/2500		
BM (30°-60°)	5015.2	12.7	B4/8500		
BH (60°-80°)	2472.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	197.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



REPORT NUMBER: P942527

CATALOG NUMBER: GALN-SB6C-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0
2.5°	4337.3	4362.2	4356.0	4345.6	4343.5	4347.7	4353.9	4360.1	4358.0	4368.4
5°	4324.8	4349.7	4347.7	4347.7	4356.0	4372.6	4383.0	4393.3	4383.0	4395.4
7.5°	4333.1	4351.8	4360.1	4368.4	4389.2	4420.3	4445.2	4468.1	4455.6	4470.2
10°	4439.0	4453.5	4461.9	4461.9	4476.4	4511.7	4536.6	4578.1	4567.7	4590.6
12.5°	4632.1	4646.6	4646.6	4638.3	4648.7	4671.6	4679.9	4725.5	4706.9	4744.2
15°	4868.8	4897.9	4875.0	4860.5	4864.6	4887.5	4885.4	4920.7	4902.0	4933.2
17.5°	5130.4	5167.8	5130.4	5128.3	5120.0	5144.9	5147.0	5178.2	5144.9	5167.8
20°	5439.8	5491.7	5460.5	5470.9	5452.2	5462.6	5473.0	5518.7	5466.8	5483.4
22.5°	5875.8	5938.1	5904.8	5944.3	5931.8	5923.5	5921.5	6002.4	5921.5	5927.7
25°	6511.1	6585.9	6527.7	6581.7	6581.7	6608.7	6639.8	6743.7	6608.7	6569.2
27.5°	7449.6	7524.3	7410.1	7443.3	7433.0	7499.4	7466.2	7723.6	7578.3	7513.9
30°	8579.1	8711.9	8496.0	8487.7	8477.3	8583.2	8631.0	8801.2	8653.8	8589.4
32.5°	9799.9	9939.0	9681.5	9606.8	9567.3	9631.7	9592.3	9729.3	9627.6	9527.9
35°	11091.3	11228.3	10983.3	10838.0	10680.2	10545.3	10404.1	10439.4	10343.9	10192.3
37.5°	12312.1	12563.4	12303.8	12148.1	11857.4	11593.8	11199.3	11035.3	10946.0	10806.9
40°	13555.8	13699.1	13501.8	13369.0	13053.4	12640.2	12009.0	11662.3	11541.9	11406.9
42.5°	14471.4	14608.5	14502.6	14411.2	14164.2	13684.5	12868.6	12434.6	12260.2	12108.7
45°	15198.1	15299.9	15233.4	15266.6	15160.8	14695.7	13759.3	13263.1	13082.4	12897.6
47.5°	15490.9	15598.8	15704.7	15902.0	16082.6	15740.0	14716.4	14160.0	13969.0	13780.1
50°	15457.7	15567.7	15875.0	16294.4	16855.0	16740.8	15725.5	15115.1	14938.6	14722.7
52.5°	15191.9	15316.5	15711.0	16408.6	17301.4	17490.3	16753.2	16101.3	15935.2	15677.7
55°	14494.3	14569.0	15160.8	16149.0	17407.3	18013.5	17760.2	17151.9	16985.8	16626.6
57.5°	13200.8	13308.7	14170.4	15449.4	17141.5	18368.6	18644.7	18256.4	18096.6	17579.6
60°	11512.8	11685.1	12671.3	14274.2	16464.6	18366.5	19448.2	19342.3	19209.4	18518.0
62.5°	9602.6	9802.0	10750.8	12613.2	15281.2	17845.3	19950.7	20251.7	20183.2	19383.8
65°	7374.8	7511.9	8456.6	10464.3	13439.5	16726.2	20008.8	20872.5	20885.0	20042.0
67.5°	4910.3	5304.8	6124.9	7852.4	10973.0	14897.1	19498.0	20974.2	21094.7	20268.3
70°	2396.0	2915.1	3718.6	5103.4	7852.4	12092.1	18163.0	20139.6	20407.4	19608.1
72.5°	994.5	1162.7	1600.8	2518.5	4507.5	8159.7	15480.5	17876.5	18372.7	17374.0
75°	670.6	726.7	915.6	1291.4	2053.4	4023.8	11164.0	13329.5	14128.9	13121.9
77.5°	517.0	552.3	666.5	903.2	1220.8	1521.9	5975.4	8033.0	8446.2	7819.1
80°	406.9	433.9	498.3	658.2	865.8	813.9	2036.8	3639.7	3878.4	3253.5
82.5°	353.0	363.3	357.1	446.4	575.1	475.5	668.6	1343.3	1482.4	1075.5
85°	255.4	284.4	296.9	276.1	305.2	240.8	274.1	475.5	523.2	467.2
87.5°	103.8	153.6	188.9	178.6	112.1	68.5	85.1	139.1	159.9	174.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942527
 CATALOG NUMBER: GALN-SB6C-827-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4383.0	0°	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0	4383.0
4385.0	2.5°	4387.1	4401.6	4412.0	4424.5	4432.8	4445.2	4470.2	4484.7	4486.8	4497.2
4418.3	5°	4426.6	4447.3	4470.2	4503.4	4540.8	4571.9	4619.6	4652.9	4665.3	4675.7
4499.2	7.5°	4511.7	4540.8	4582.3	4640.4	4694.4	4735.9	4794.1	4833.5	4873.0	4887.5
4628.0	10°	4638.3	4679.9	4740.1	4819.0	4877.1	4931.1	4991.3	5024.5	5064.0	5080.6
4781.6	12.5°	4796.1	4839.7	4918.6	5028.7	5082.7	5120.0	5140.8	5132.5	5140.8	5155.3
4966.4	15°	4976.8	5024.5	5113.8	5232.1	5269.5	5236.3	5190.6	5149.1	5142.9	5147.0
5190.6	17.5°	5190.6	5225.9	5329.7	5429.4	5402.4	5265.4	5165.7	5099.3	5066.0	5055.7
5477.1	20°	5489.6	5489.6	5574.7	5637.0	5456.4	5223.8	5068.1	4960.2	4891.6	4862.6
5867.5	22.5°	5852.9	5819.7	5873.7	5830.1	5446.0	5107.6	4891.6	4704.8	4601.0	4559.4
6413.5	25°	6313.9	6274.4	6259.9	5990.0	5371.3	4922.8	4571.9	4345.6	4254.2	4231.4
7200.4	27.5°	7009.4	6909.8	6720.8	6077.2	5234.2	4632.1	4198.2	3988.5	3936.6	3938.6
8211.6	30°	7935.4	7736.1	7273.1	6091.7	5010.0	4221.0	3816.1	3666.7	3641.7	3652.1
9060.7	32.5°	8792.9	8604.0	7837.8	6025.3	4665.3	3818.2	3473.6	3373.9	3336.5	3349.0
9708.5	35°	9465.6	9413.7	8361.0	5931.8	4241.8	3440.3	3166.3	3081.2	3008.5	2991.9
10318.9	37.5°	10100.9	10080.2	8753.5	5801.0	3822.4	3172.5	2919.2	2807.1	2701.2	2643.1
10993.7	40°	10798.6	10777.8	9010.9	5599.6	3450.7	2940.0	2697.0	2549.6	2418.8	2312.9
11757.8	42.5°	11583.4	11460.9	9133.4	5311.0	3135.1	2742.7	2516.4	2317.1	2144.8	2047.2
12621.5	45°	12440.9	12164.7	9131.3	4943.5	2869.4	2562.1	2323.3	2041.0	1881.1	1789.7
13508.1	47.5°	13350.3	12837.4	9019.2	4536.6	2611.9	2362.8	2024.3	1808.4	1702.5	1646.5
14471.4	50°	14288.7	13466.5	8828.2	4069.4	2348.2	2136.5	1837.5	1690.1	1609.1	1557.2
15426.5	52.5°	15171.1	14037.5	8597.7	3540.0	2080.4	1916.4	1754.4	1640.2	1555.1	1497.0
16352.5	55°	15991.3	14529.6	8271.8	2998.1	1862.4	1769.0	1715.0	1619.5	1521.9	1453.4
17293.1	57.5°	16720.0	14849.3	7709.1	2489.4	1706.7	1667.2	1673.5	1584.2	1472.1	1413.9
18219.1	60°	17326.3	15083.9	6876.5	2018.1	1580.0	1567.6	1609.1	1517.7	1386.9	1320.5
19001.8	62.5°	17689.6	15079.8	5855.0	1652.7	1472.1	1476.2	1524.0	1434.7	1301.8	1239.5
19410.8	65°	17658.5	14710.2	4733.8	1413.9	1368.2	1372.4	1434.7	1343.3	1231.2	1193.8
19205.3	67.5°	17033.5	13809.1	3631.4	1258.2	1254.1	1272.7	1345.4	1281.0	1187.6	1183.5
17980.3	70°	15341.4	11938.4	2616.1	1133.6	1135.7	1162.7	1258.2	1241.6	1164.8	1173.1
15117.2	72.5°	12301.8	9102.3	1756.5	1002.8	1004.9	1048.5	1175.2	1210.5	1141.9	1252.0
10725.9	75°	8192.9	5676.5	1129.5	863.7	865.8	921.9	1102.5	1150.2	1079.6	1247.8
5581.0	77.5°	3936.6	2551.7	818.0	726.7	726.7	778.6	953.0	1029.8	919.8	969.6
1793.9	80°	1359.9	959.2	643.6	585.5	573.0	608.3	803.5	892.8	793.1	730.8
585.5	82.5°	535.7	498.3	517.0	454.7	413.2	436.0	625.0	737.1	583.4	527.4
330.1	85°	307.3	323.9	365.4	301.1	238.8	267.8	458.9	529.4	440.2	388.3
108.0	87.5°	83.0	114.2	168.2	155.7	108.0	114.2	218.0	292.8	253.3	195.2
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>
4383.0
4495.1
4673.6
4889.6
5088.9
5159.5
5161.6
5070.2
4856.3
4553.2
4235.5
3944.9
3687.4
3365.6
3004.3
2645.1
2323.3
2053.4
1785.6
1634.0
1538.5
1472.1
1426.4
1376.6
1291.4
1220.8
1191.8
<i>1189.7</i>
1171.0
1268.6
1258.2
888.6
685.2
525.3
396.6
201.4
0.0

F REPORT)