

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: P951461

Luminaire Tested: **GALN-SB5C-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-835-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35560 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

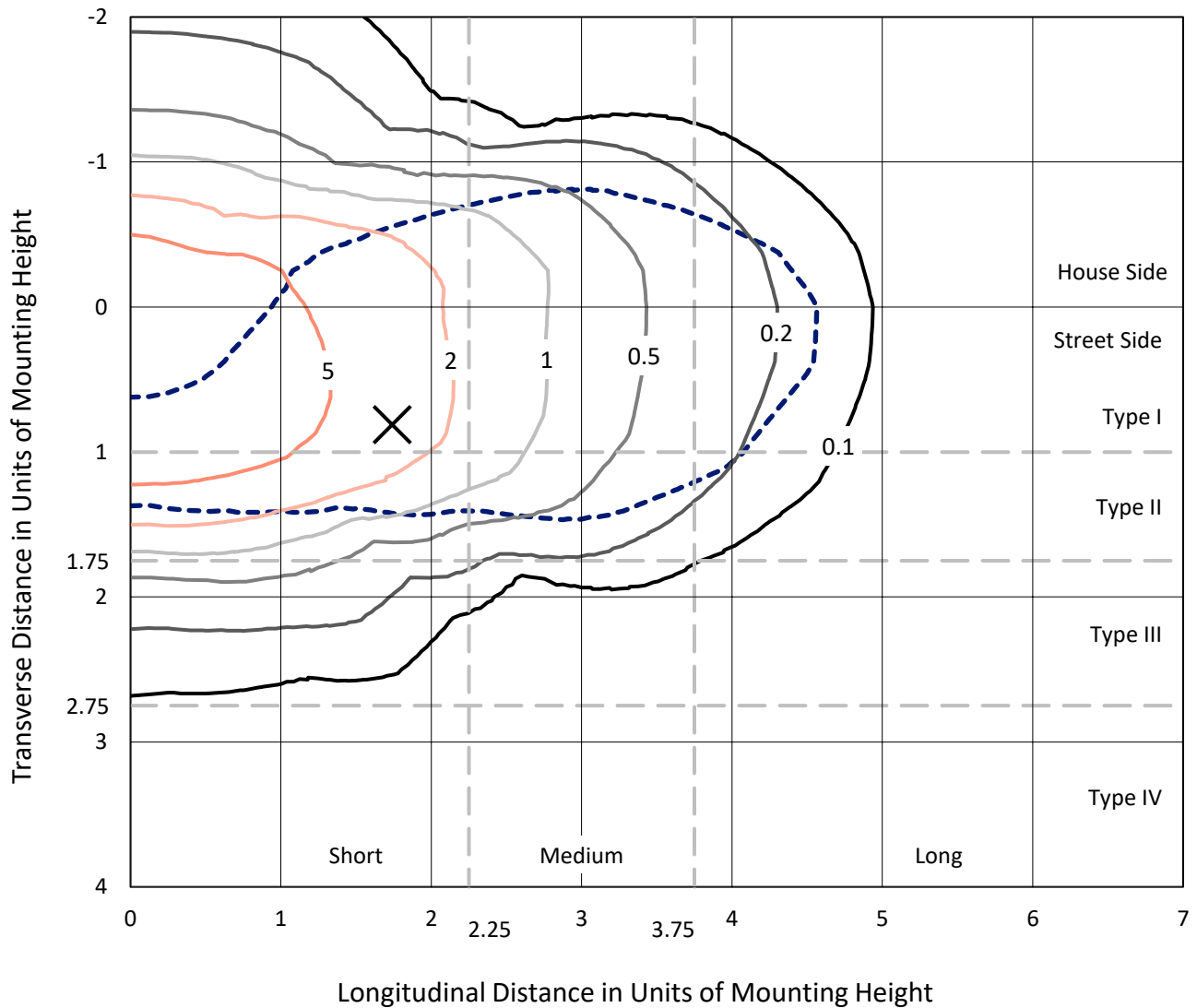
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951461
 CATALOG NUMBER: GALN-SB5C-835-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

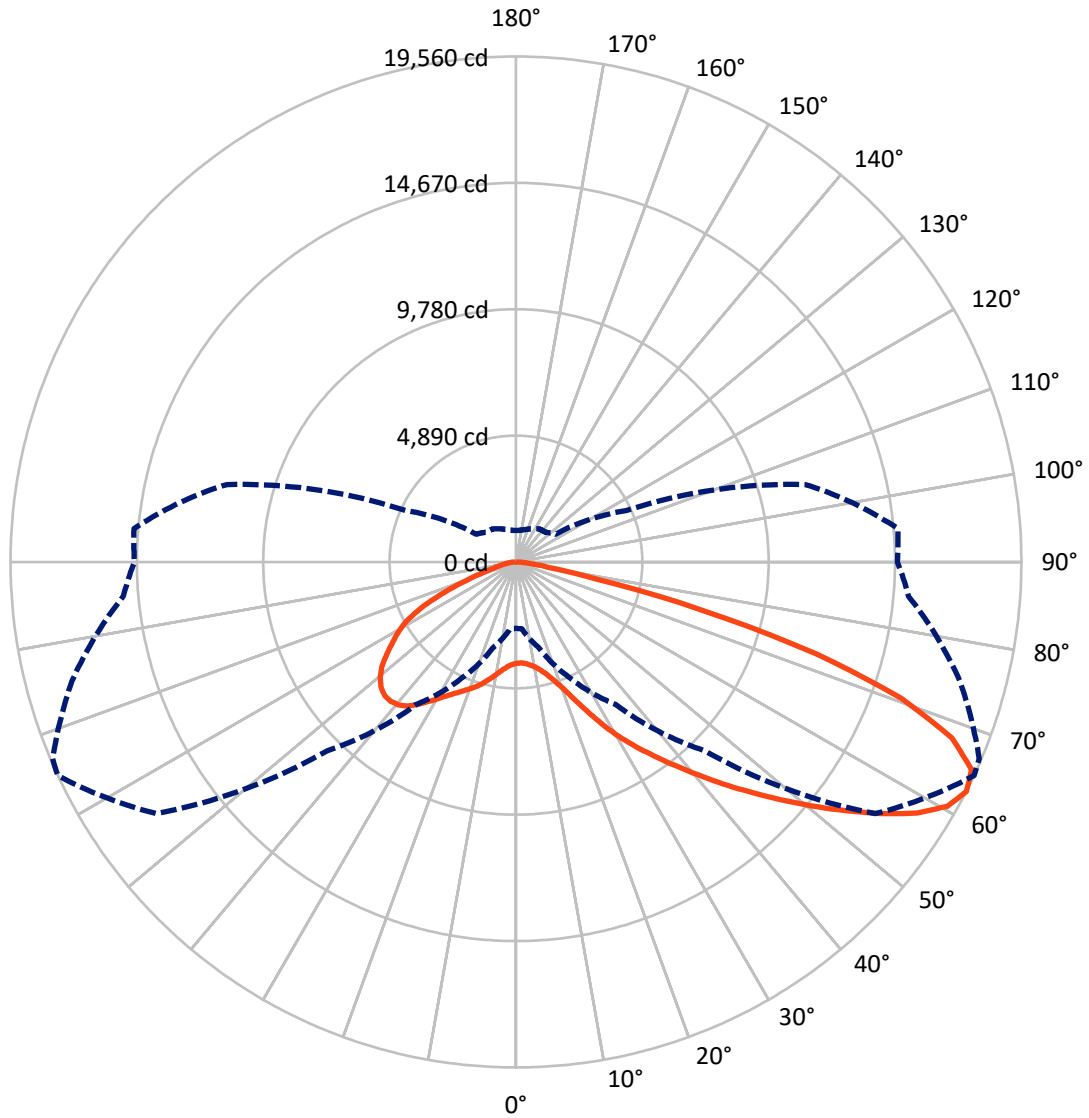
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

REPORT NUMBER: P951461
CATALOG NUMBER: GALN-SB5C-835-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P951461
 CATALOG NUMBER: GALN-SB5C-835-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11221.2	0.0	11221.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24338.8	0.0	24338.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	35560.0	0.0	35560.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.7	1.1
10°-20°	1324.8	3.7
20°-30°	2686.2	7.6
30°-40°	4648.4	13.1
40°-50°	7034.5	19.8
50°-60°	8247.5	23.2
60°-70°	6914.6	19.4
70°-80°	3817.4	10.7
80°-90°	495.9	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°	35560.0	100.0
0°-180°	35560.0	100.0

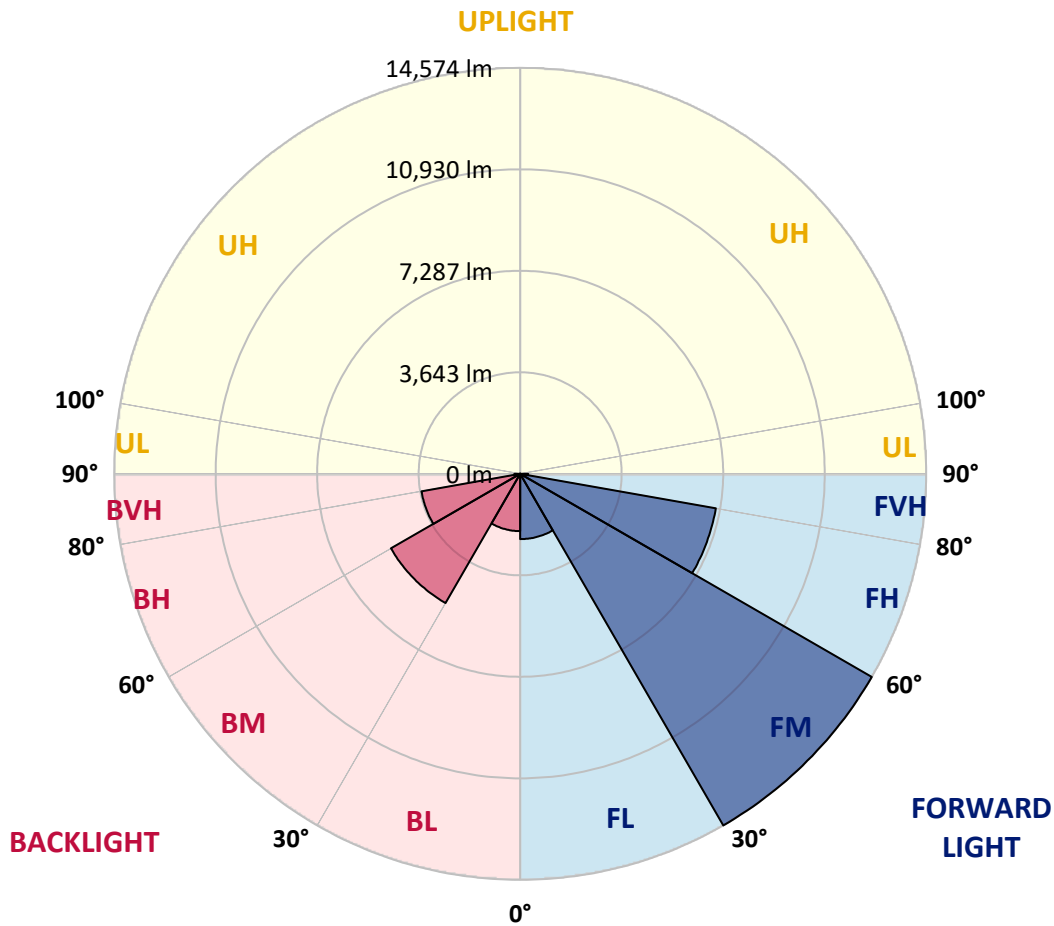


REPORT NUMBER: P951461
 CATALOG NUMBER: GALN-SB5C-835-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2343.9	6.6			
FM (30°-60°)	14573.6	41.0			
FH (60°-80°)	7132.3	20.1			G3/7500
FVH (80°-90°)	289.0	0.8			G3/500
BL (0°-30°)	2057.8	5.8	B3/2500		
BM (30°-60°)	5356.8	15.1	B4/8500		
BH (60°-80°)	3599.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	206.9	0.6			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 II Short



REPORT NUMBER: P951461
 CATALOG NUMBER: GALN-SB5C-835-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6
2.5°	3892.7	3881.7	3890.9	3890.9	3894.6	3892.7	3905.6	3909.3	3914.9	3925.9
5°	3854.0	3852.1	3868.7	3883.5	3898.3	3911.2	3927.8	3951.8	3955.5	3968.4
7.5°	3841.1	3830.0	3855.8	3874.3	3909.3	3940.7	3985.0	4025.6	4042.2	4047.7
10°	3940.7	3922.2	3946.2	3957.3	3986.8	4018.2	4069.8	4134.4	4152.9	4175.0
12.5°	4110.4	4090.1	4125.2	4141.8	4169.5	4197.1	4232.2	4294.9	4304.1	4344.7
15°	4342.9	4318.9	4341.0	4361.3	4407.5	4433.3	4468.3	4529.2	4529.2	4560.6
17.5°	4658.4	4627.0	4643.6	4651.0	4680.5	4719.2	4778.3	4831.8	4859.5	4848.4
20°	5128.8	5090.1	5090.1	5053.2	5042.1	5073.5	5150.9	5224.7	5254.3	5197.1
22.5°	5835.4	5780.1	5748.7	5623.2	5573.4	5577.1	5654.6	5745.0	5769.0	5667.5
25°	6733.9	6647.2	6604.7	6420.2	6307.7	6209.9	6270.8	6387.0	6420.2	6294.8
27.5°	7632.3	7637.9	7597.3	7375.9	7189.6	7010.6	6979.2	7101.0	7136.1	6994.0
30°	8892.4	8761.4	8683.9	8418.3	8152.6	7901.7	7772.5	7822.4	7831.6	7661.9
32.5°	9979.0	9945.8	9779.8	9547.3	9206.0	8813.1	8597.2	8517.9	8503.1	8261.4
35°	11217.0	11198.5	11023.2	10746.5	10377.5	9831.4	9442.2	9215.3	9196.8	8857.3
37.5°	12475.2	12475.2	12303.6	12001.0	11619.2	10936.5	10344.3	9984.6	9925.5	9482.8
40°	13478.8	13417.9	13449.3	13322.0	12884.7	12159.7	11346.1	10824.0	10744.7	10213.3
42.5°	14048.9	14028.6	14216.8	14358.8	14179.9	13600.6	12449.4	11733.5	11622.8	11017.7
45°	14176.2	14154.0	14489.8	15010.1	15261.0	15023.0	13648.5	12691.0	12556.4	11859.0
47.5°	13882.8	13838.6	14331.1	15152.1	15956.5	16375.3	14947.3	13729.7	13534.2	12678.1
50°	13001.0	12958.5	13703.9	14794.2	16190.8	17294.0	16356.8	14831.1	14532.2	13556.3
52.5°	11084.1	11104.4	12272.2	13770.3	15882.7	17866.0	17570.8	15991.6	15631.8	14454.8
55°	8634.1	8678.4	10113.7	11763.1	14650.3	17779.3	18399.1	17187.0	16829.1	15299.7
57.5°	6182.2	6377.8	7722.7	9355.5	12283.3	16404.8	18579.9	18323.5	17976.7	16222.2
60°	4007.1	4042.2	5425.8	7071.5	9353.6	13962.2	18212.8	19185.1	18913.9	17163.1
62.5°	2568.1	2592.1	3435.2	4946.2	6732.0	10329.6	16976.7	19559.6	19476.6	17784.8
65°	1887.3	1868.9	2308.0	3269.2	4534.8	6370.4	14576.5	19378.8	19543.0	18174.1
67.5°	1575.5	1549.7	1765.6	2263.7	3341.1	3617.8	10785.3	18203.6	18805.0	18129.8
70°	1435.3	1413.2	1544.2	1680.7	2606.8	2422.3	5436.9	15825.5	16751.7	17626.1
72.5°	1215.8	1177.0	1356.0	1492.5	2027.5	1857.8	2247.1	12156.0	13285.1	16011.8
75°	942.7	916.9	1070.0	1313.6	1523.9	1450.1	1420.6	7381.4	8613.8	12382.9
77.5°	747.2	712.1	852.3	1023.9	1370.8	1094.0	1035.0	3178.8	4400.1	7905.4
80°	562.7	531.3	647.6	809.9	1053.4	824.7	669.7	1297.0	1658.6	4005.3
82.5°	400.3	372.7	452.0	594.1	708.4	739.8	411.4	726.9	817.3	1544.2
85°	256.4	239.8	302.6	372.7	450.2	476.0	250.9	380.0	416.9	636.5
87.5°	140.2	114.4	162.4	173.4	208.5	190.0	119.9	138.4	149.4	230.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951461
 CATALOG NUMBER: GALN-SB5C-835-U-T2U

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3918.6	0°	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6	3918.6
3925.9	2.5°	3933.3	3938.9	3957.3	3962.8	3975.7	3992.4	4003.4	4014.5	4014.5	4025.6
3985.0	5°	3986.8	3999.7	4038.5	4058.8	4092.0	4125.2	4145.5	4169.5	4184.2	4191.6
4079.1	7.5°	4090.1	4110.4	4165.8	4200.8	4258.0	4304.1	4335.5	4368.7	4376.1	4396.4
4210.1	10°	4230.3	4254.3	4317.1	4383.5	4451.7	4508.9	4538.4	4562.4	4571.7	4575.3
4377.9	12.5°	4390.9	4425.9	4507.1	4588.3	4660.2	4710.0	4717.4	4711.9	4686.0	4663.9
4584.6	15°	4588.3	4619.6	4710.0	4798.6	4868.7	4877.9	4831.8	4802.3	4770.9	4765.4
4815.2	17.5°	4824.4	4841.0	4924.0	5010.7	5016.3	4984.9	4916.6	4889.0	4859.5	4839.2
5115.9	20°	5099.3	5093.8	5152.8	5189.7	5150.9	5055.0	4951.7	4905.6	4876.1	4852.1
5484.9	22.5°	5427.7	5385.2	5377.9	5368.6	5265.3	5064.2	4924.0	4865.0	4818.9	4785.7
5999.6	25°	5905.5	5743.2	5630.6	5567.9	5335.4	5014.4	4835.5	4704.5	4617.8	4560.6
6628.7	27.5°	6503.3	6230.2	5946.1	5793.0	5335.4	4913.0	4621.5	4409.3	4267.2	4208.2
7237.5	30°	7073.3	6787.4	6368.6	6064.2	5322.5	4746.9	4276.5	3981.3	3815.2	3756.2
7757.8	32.5°	7560.4	7248.6	6816.9	6361.2	5291.2	4477.6	3848.5	3521.9	3361.4	3291.3
8272.5	35°	8012.4	7680.3	7267.0	6687.7	5208.1	4082.8	3378.0	3128.9	2950.0	2837.4
8796.5	37.5°	8475.4	8080.6	7693.2	6982.9	5058.7	3621.5	3016.4	2804.2	2593.9	2442.6
9353.6	40°	8979.1	8506.8	8148.9	7158.2	4813.3	3182.4	2736.0	2542.3	2319.0	2158.5
9995.6	42.5°	9567.6	9017.8	8656.2	7248.6	4477.6	2870.7	2553.3	2363.3	2153.0	2022.0
10683.8	45°	10182.0	9580.5	9119.3	7246.7	4103.0	2724.9	2494.3	2306.1	2073.7	1937.1
11390.4	47.5°	10825.8	10169.1	9519.7	7128.7	3778.3	2745.2	2461.1	2182.5	1926.1	1793.2
12104.4	50°	11471.6	10812.9	9907.1	6907.3	3640.0	2700.9	2337.5	2009.1	1706.5	1586.6
12774.1	52.5°	12111.7	11497.4	10241.0	6591.8	3499.8	2536.7	2178.8	1784.0	1616.1	1533.1
13465.9	55°	12755.6	12174.5	10604.5	6132.4	3149.2	2344.9	1913.2	1699.1	1544.2	1468.5
14143.0	57.5°	13401.3	12956.7	10949.5	5673.1	2708.3	2108.7	1767.4	1595.8	1472.2	1407.7
14709.4	60°	14072.9	13851.5	11305.5	5250.6	2272.9	1806.2	1660.4	1512.8	1387.4	1315.4
15253.6	62.5°	14764.7	14836.6	11584.1	4706.3	1872.6	1621.7	1564.5	1413.2	1291.4	1223.2
15703.7	65°	15462.1	15786.8	11766.7	3951.8	1518.3	1446.4	1461.2	1304.3	1180.7	1121.7
16034.0	67.5°	15987.9	16471.2	11715.1	2990.6	1245.3	1280.4	1332.0	1190.0	1073.7	1027.6
15980.5	70°	16046.9	16390.1	11205.9	2047.8	1042.4	1118.0	1188.1	1077.4	957.5	924.3
15227.8	72.5°	15261.0	15283.1	9787.2	1337.5	881.9	981.5	1036.8	963.0	846.8	813.6
13322.0	75°	13200.2	12639.4	7185.9	881.9	738.0	843.1	894.8	843.1	730.6	738.0
9968.0	77.5°	10001.2	8951.4	4363.2	627.3	616.2	708.4	778.5	741.6	645.7	725.0
5012.6	80°	5152.8	4842.9	1946.4	468.6	487.1	566.4	640.2	592.2	511.0	487.1
1119.9	82.5°	1180.7	1372.6	767.5	335.8	352.4	407.7	488.9	444.6	367.1	309.9
466.8	85°	413.3	452.0	339.5	210.3	206.6	254.6	332.1	297.0	249.1	199.2
197.4	87.5°	131.0	171.6	127.3	84.9	88.6	114.4	153.1	140.2	116.2	75.6
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>
3918.6
4025.6
4195.3
4389.0
4566.1
4663.9
4765.4
4841.0
4853.9
4796.7
4582.7
4237.7
3791.3
3326.3
2874.3
2483.2
2189.9
2047.8
1959.3
1811.7
1594.0
1533.1
1461.2
1396.6
1309.9
1221.3
1119.9
1029.5
926.1
811.8
712.1
638.3
444.6
306.3
210.3
79.3
0.0

F REPORT)