

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: P954991

Luminaire Tested: **GALN-SB8A-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32380 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

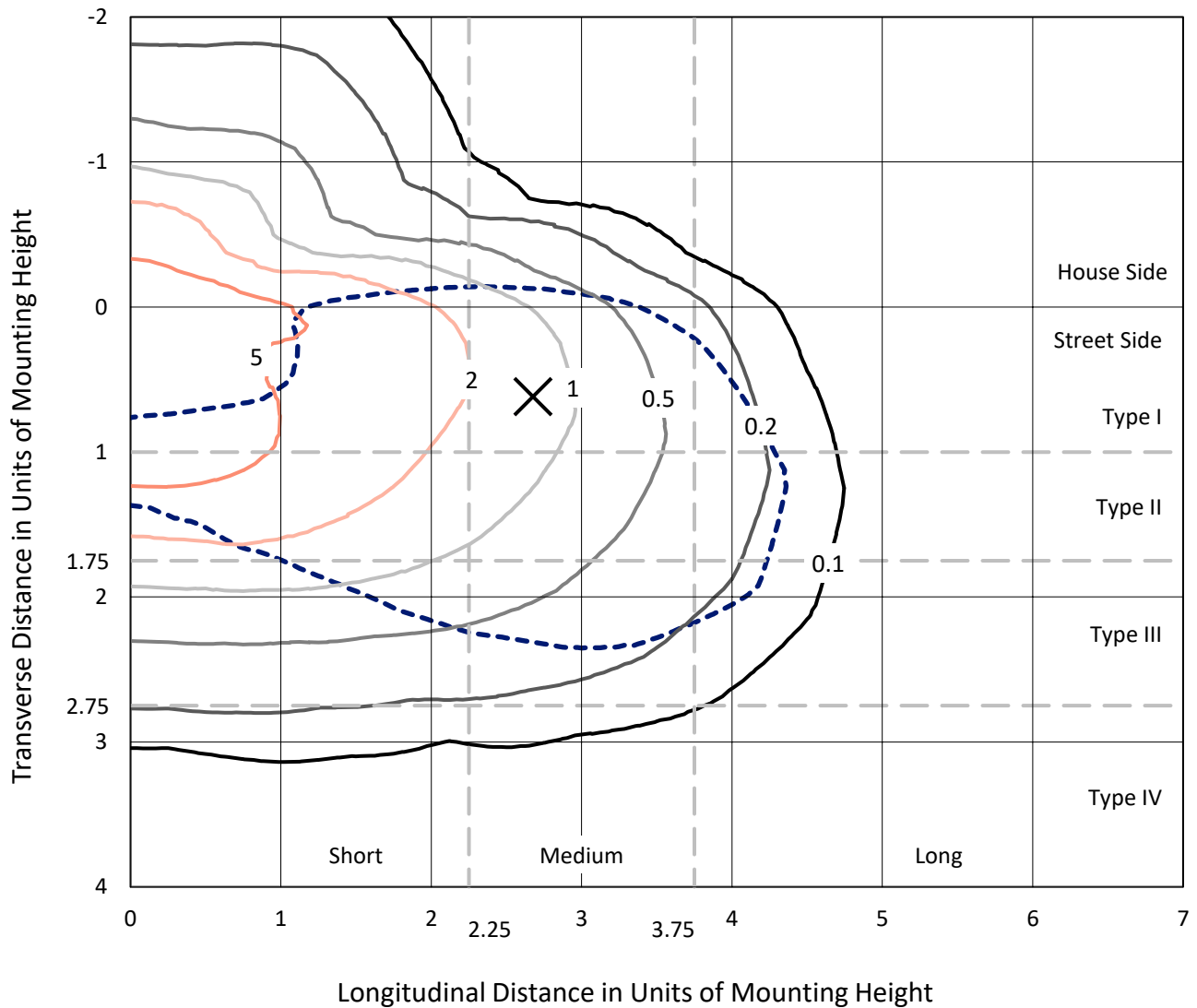
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954991
 CATALOG NUMBER: GALN-SB8A-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

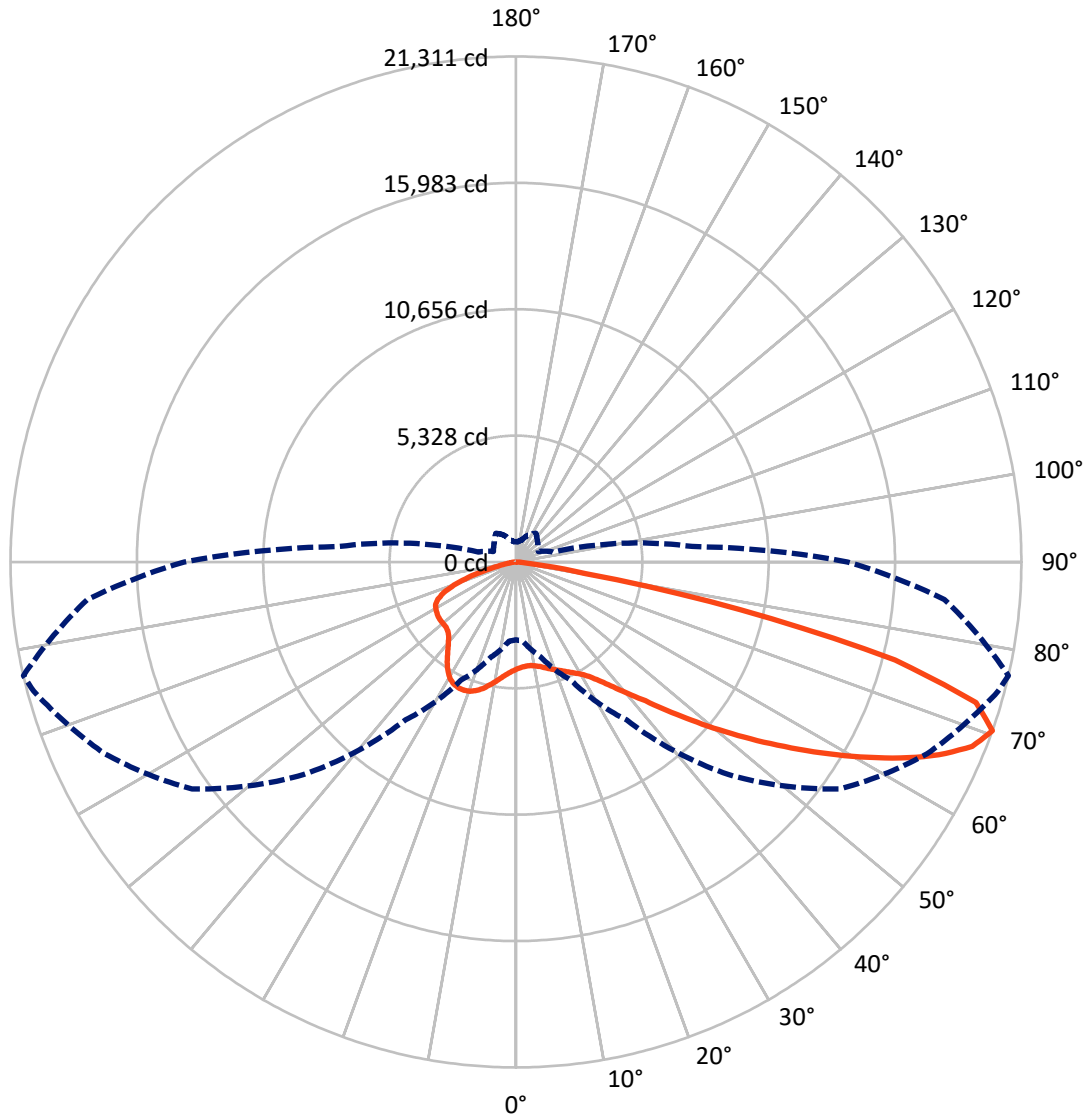
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P954991
CATALOG NUMBER: GALN-SB8A-827-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P954991
 CATALOG NUMBER: GALN-SB8A-827-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7090.7	0.0	7090.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25289.3	0.0	25289.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	32380.0	0.0	32380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.8	1.3
10°-20°	1243.4	3.8
20°-30°	2126.4	6.6
30°-40°	3419.5	10.6
40°-50°	5338.7	16.5
50°-60°	7131.3	22.0
60°-70°	7600.8	23.5
70°-80°	4679.0	14.5
80°-90°	410.0	1.3
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°	32380.0	100.0
0°-180°	32380.0	100.0



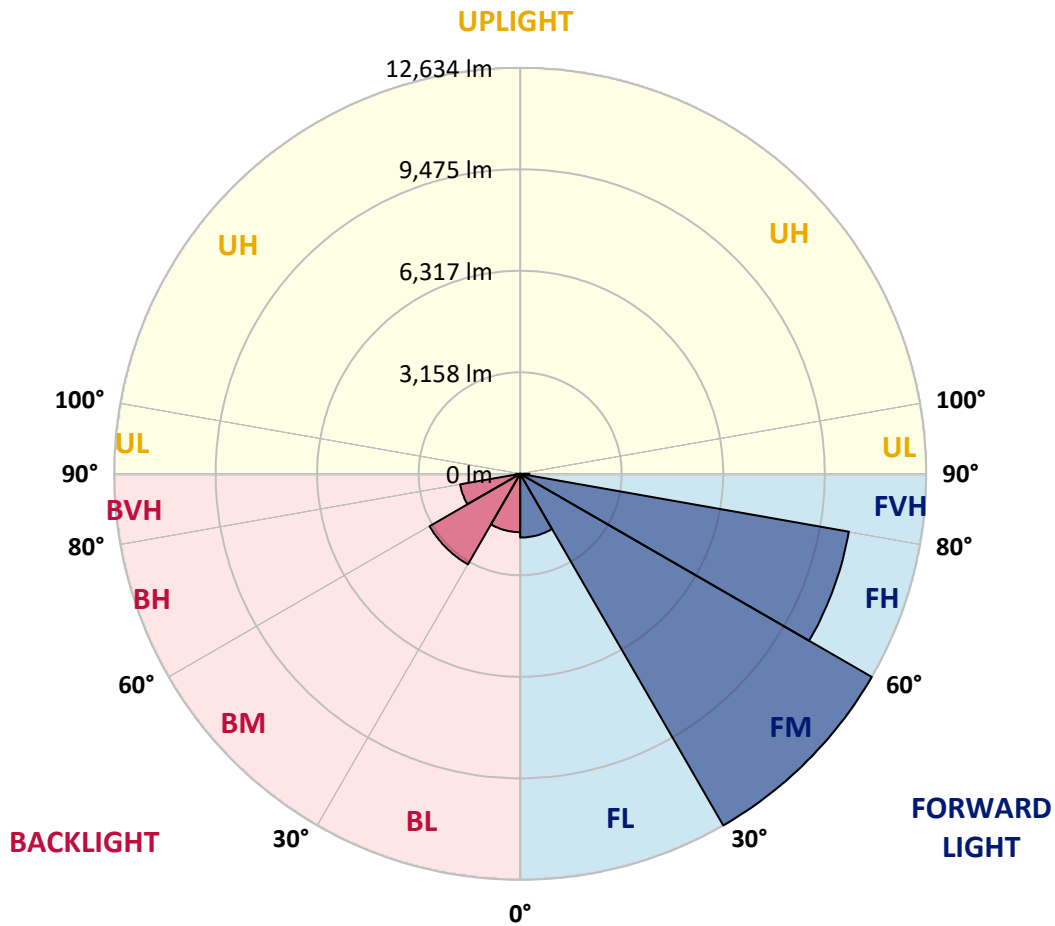
REPORT NUMBER: P954991
 CATALOG NUMBER: GALN-SB8A-827-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1983.8	6.1			
FM	(30°-60°)	12634.0	39.0			
FH	(60°-80°)	10384.8	32.1			G4/12000
FVH	(80°-90°)	286.7	0.9			G3/500
BL	(0°-30°)	1816.9	5.6	B3/2500		
BM	(30°-60°)	3255.5	10.1	B3/5000		
BH	(60°-80°)	1895.0	5.9	B3/2500		G3/2500
BVH	(80°-90°)	123.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



REPORT NUMBER: P954991
 CATALOG NUMBER: GALN-SB8A-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3
2.5°	4164.1	4162.4	4184.0	4190.6	4230.4	4258.6	4311.7	4368.1	4441.0	4449.3
5°	3923.6	3923.6	3948.5	3975.0	4026.4	4082.8	4164.1	4261.9	4388.0	4407.9
7.5°	3719.6	3732.9	3754.5	3805.9	3865.6	3946.8	4071.2	4210.5	4376.3	4407.9
10°	3555.5	3570.4	3596.9	3638.4	3727.9	3840.7	4003.2	4182.3	4404.5	4454.3
12.5°	3504.1	3519.0	3533.9	3565.4	3648.3	3781.0	3975.0	4195.6	4472.5	4522.3
15°	3623.5	3641.7	3630.1	3621.8	3664.9	3786.0	3988.3	4243.7	4557.1	4628.4
17.5°	3898.7	3905.4	3878.8	3800.9	3794.3	3858.9	4051.3	4310.0	4663.2	4741.2
20°	4343.2	4331.6	4276.8	4122.6	4034.7	4021.5	4159.1	4409.5	4772.7	4855.6
22.5°	4946.8	4933.5	4824.1	4580.3	4384.6	4255.3	4315.0	4538.9	4895.4	4988.3
25°	5699.7	5681.5	5520.6	5188.9	4885.5	4565.4	4527.3	4709.7	5046.3	5132.5
27.5°	6578.6	6563.7	6389.6	5951.8	5514.0	4989.9	4790.9	4910.3	5203.9	5301.7
30°	7523.9	7567.0	7258.5	6787.6	6233.7	5543.8	5145.8	5157.4	5407.8	5495.7
32.5°	8635.0	8709.6	8338.1	7741.1	6984.9	6145.8	5593.6	5502.4	5704.7	5777.6
35°	9736.1	9820.7	9512.2	8852.2	7981.6	6855.6	6061.2	5898.7	6099.4	6179.0
37.5°	10688.0	10800.7	10641.5	10067.8	9047.9	7711.3	6671.5	6364.7	6585.2	6684.7
40°	11439.2	11611.7	11600.1	11241.9	10304.9	8749.4	7445.9	6940.1	7188.9	7296.7
42.5°	12049.5	12198.7	12328.1	12309.8	11616.6	9928.5	8356.4	7688.0	7877.1	8001.5
45°	12470.7	12629.9	12908.5	13208.6	12878.6	11190.4	9399.4	8575.3	8747.7	8935.1
47.5°	12847.1	13027.9	13389.4	13865.3	13949.9	12457.4	10542.0	9608.4	9765.9	9960.0
50°	12880.3	13036.2	13596.7	14271.6	14711.1	13674.6	11769.2	10767.6	10915.2	11122.5
52.5°	12079.3	12324.7	13303.2	14260.0	15061.0	14692.9	12988.1	11973.2	12139.0	12387.8
55°	9376.2	9736.1	12442.5	13815.6	14936.6	15351.2	14147.3	13255.1	13467.3	13727.7
57.5°	8076.1	8233.6	9877.0	13006.3	14369.5	15522.0	15125.7	14550.2	14891.9	15177.1
60°	7258.5	7389.5	8361.3	11747.6	13623.2	15251.7	15881.9	15757.5	16347.9	16687.8
62.5°	6382.9	6507.3	7391.2	9809.1	12668.0	14802.3	16359.5	16871.9	17840.4	18211.8
65°	5514.0	5620.1	6467.5	8241.9	11454.1	14352.9	16606.6	17835.4	19221.8	19606.5
67.5°	4545.5	4633.4	5434.4	6953.4	9978.2	13737.6	16729.3	18593.3	20424.1	20754.1
70°	3280.2	3348.2	4175.7	5499.0	8125.8	12679.6	16679.5	19130.6	21047.6	21311.3
72.5°	1550.5	1611.9	2583.7	3570.4	5739.5	10620.0	15672.9	18704.4	20414.1	20283.1
75°	827.5	880.6	1484.2	1958.5	3031.4	7280.1	12825.6	16112.4	17142.2	16505.4
77.5°	560.5	602.0	918.7	1175.8	1384.7	3456.0	8243.6	11155.6	10732.7	9681.4
80°	444.4	487.6	752.9	796.0	670.0	1248.7	3406.2	5164.1	3709.7	2966.8
82.5°	341.6	389.7	633.5	577.1	364.8	512.4	991.7	1633.5	950.2	723.0
85°	209.0	260.4	497.5	368.2	205.6	233.8	336.6	454.4	290.2	242.1
87.5°	106.1	149.3	252.1	134.3	92.9	54.7	89.6	89.6	76.3	66.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954991
 CATALOG NUMBER: GALN-SB8A-827-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4517.3	0°	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3
4494.1	2.5°	4533.9	4567.1	4623.4	4676.5	4718.0	4757.8	4797.6	4819.1	4825.8	4852.3
4519.0	5°	4587.0	4648.3	4757.8	4860.6	4925.3	4965.1	4993.2	5009.8	5013.1	5021.4
4587.0	7.5°	4684.8	4782.6	4935.2	5038.0	5086.1	5082.8	5071.2	5029.7	5013.1	4998.2
4686.5	10°	4822.4	4951.8	5139.2	5210.5	5180.6	5101.0	4998.2	4877.2	4820.8	4766.1
4822.4	12.5°	4993.2	5157.4	5341.5	5338.2	5190.6	4986.6	4747.8	4562.1	4444.3	4359.8
4989.9	15°	5200.5	5389.6	5530.5	5417.8	5094.4	4727.9	4378.0	4135.9	4029.8	3936.9
5159.1	17.5°	5414.5	5616.8	5681.5	5392.9	4852.3	4344.8	3948.5	3757.8	3653.3	3603.6
5341.5	20°	5623.4	5824.1	5771.0	5250.3	4484.1	3910.4	3557.1	3452.7	3431.1	3442.7
5518.9	22.5°	5844.0	6023.1	5789.2	4975.0	4014.8	3465.9	3271.9	3275.2	3323.3	3358.1
5704.7	25°	6069.5	6190.6	5741.2	4577.0	3510.7	3139.2	3091.1	3144.2	3238.7	3306.7
5913.6	27.5°	6286.7	6339.8	5636.7	4084.5	3077.9	2905.4	2913.7	3023.1	3165.8	3260.3
6167.3	30°	6532.2	6472.5	5436.0	3530.6	2777.7	2704.7	2774.4	2902.1	3044.7	3129.3
6487.4	32.5°	6809.1	6586.9	5117.6	3018.2	2565.4	2543.9	2658.3	2741.2	2804.2	2829.1
6911.9	35°	7154.1	6747.8	4709.7	2658.3	2374.7	2426.1	2535.6	2494.1	2469.3	2456.0
7482.4	37.5°	7601.8	6965.0	4232.1	2424.5	2220.5	2341.6	2386.3	2257.0	2159.2	2111.1
8173.9	40°	8140.8	7283.4	3772.7	2243.7	2122.7	2268.6	2190.7	2034.8	1910.4	1842.4
8951.7	42.5°	8739.4	7616.7	3386.3	2107.7	2067.9	2208.9	2046.4	1860.7	1660.0	1638.4
9878.7	45°	9367.9	7960.0	3122.6	2003.3	2041.4	2157.5	1963.5	1663.3	1520.7	1608.6
10809.0	47.5°	9996.4	8275.1	2963.4	1925.3	2028.1	2099.5	1890.5	1553.9	1452.7	1580.4
11805.7	50°	10696.3	8557.0	2892.1	1868.9	2013.2	2076.2	1781.1	1525.7	1381.4	1466.0
12837.2	52.5°	11391.1	8775.9	2839.1	1812.6	1991.7	2058.0	1728.0	1492.5	1295.2	1300.1
13875.3	55°	12084.3	8918.5	2781.0	1737.9	1943.6	2018.2	1723.0	1456.0	1230.5	1207.3
14973.1	57.5°	12823.9	8999.8	2709.7	1655.0	1860.7	1917.0	1718.0	1427.8	1210.6	1172.4
16095.8	60°	13576.8	9119.2	2616.9	1553.9	1749.5	1796.0	1706.4	1417.9	1199.0	1134.3
17153.8	62.5°	14251.7	9160.6	2505.7	1457.7	1606.9	1676.6	1681.6	1409.6	1167.5	1056.4
18032.7	65°	14694.5	8981.5	2311.7	1348.2	1452.7	1553.9	1633.5	1381.4	1111.1	1000.0
18467.2	67.5°	14676.3	8470.8	2008.2	1207.3	1303.5	1417.9	1563.8	1333.3	1043.1	930.3
18138.9	70°	13993.0	7462.5	1623.5	1043.1	1139.3	1271.9	1474.3	1262.0	961.8	854.0
16129.0	72.5°	12001.4	5840.7	1179.1	850.7	948.6	1121.0	1358.2	1175.8	878.9	786.1
11920.1	75°	8573.6	3696.4	799.3	653.4	738.0	950.2	1213.9	1074.6	802.6	789.4
5970.0	77.5°	4379.7	1766.1	529.0	477.6	514.1	749.6	1019.9	960.2	814.2	651.7
1698.1	80°	1424.5	651.7	333.3	325.0	341.6	499.2	789.4	787.7	616.9	442.8
411.3	82.5°	454.4	280.3	217.2	209.0	200.7	313.4	550.6	623.5	416.2	280.3
147.6	85°	180.8	167.5	127.7	117.7	84.6	147.6	288.6	414.6	310.1	202.3
38.1	87.5°	66.3	66.3	34.8	24.9	18.2	49.8	77.9	124.4	177.4	104.5
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>
4517.3
4867.2
5034.7
5001.5
4749.5
4339.9
3926.9
3618.5
3437.7
3366.4
3325.0
3283.5
3149.2
2842.4
2469.3
2122.7
1847.4
1660.0
1655.0
1640.1
1529.0
1335.0
1223.9
1177.4
1139.3
1056.4
1000.0
935.3
<i>864.0</i>
781.1
744.6
580.4
391.4
278.6
207.3
102.8
0.0

F REPORT)