

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: P941842

Luminaire Tested: **GALN-SB5C-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

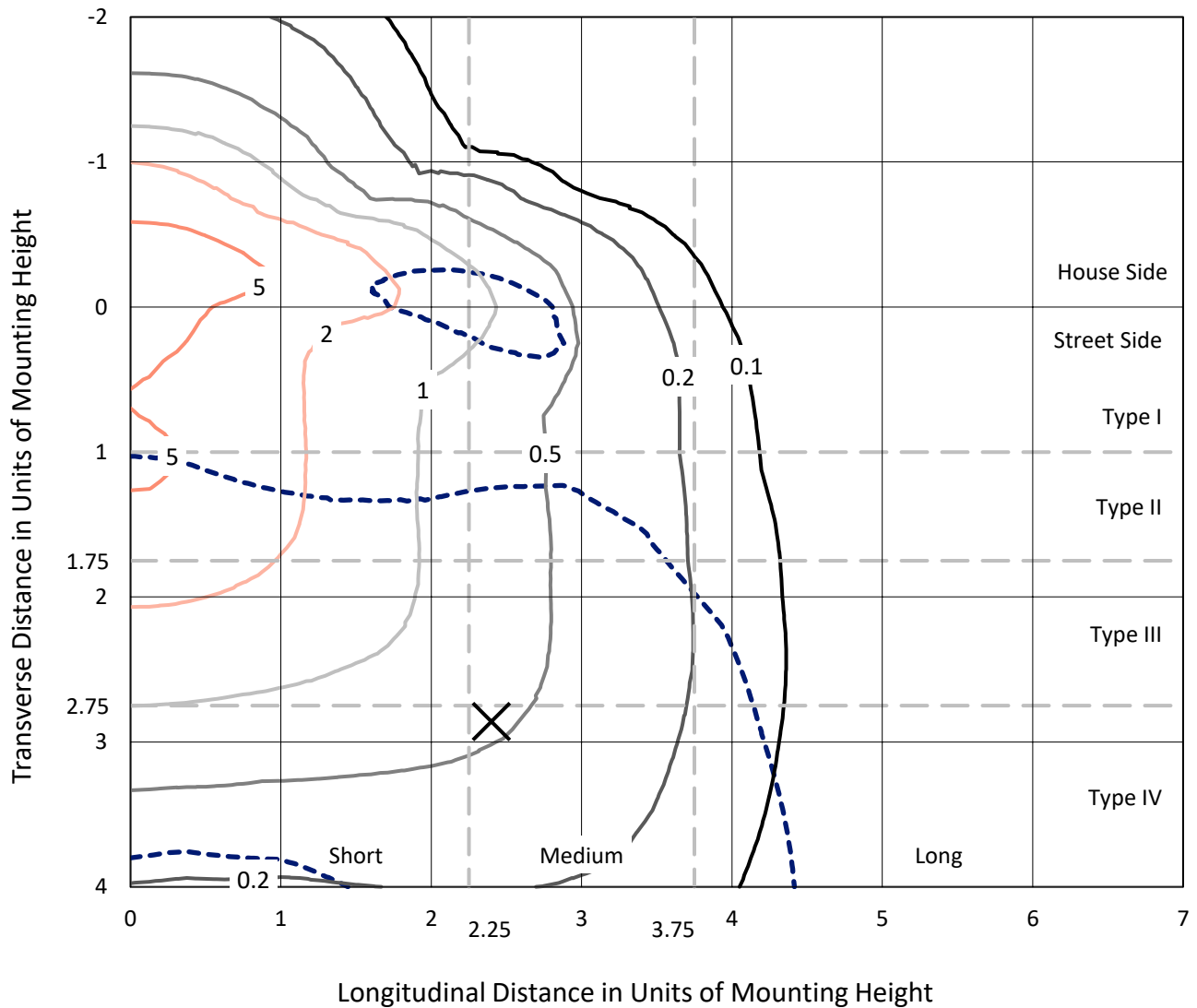
Lumens per Lamp: N/A  
Luminaire Lumens: 32609 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P941842  
 CATALOG NUMBER: GALN-SB5C-827-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

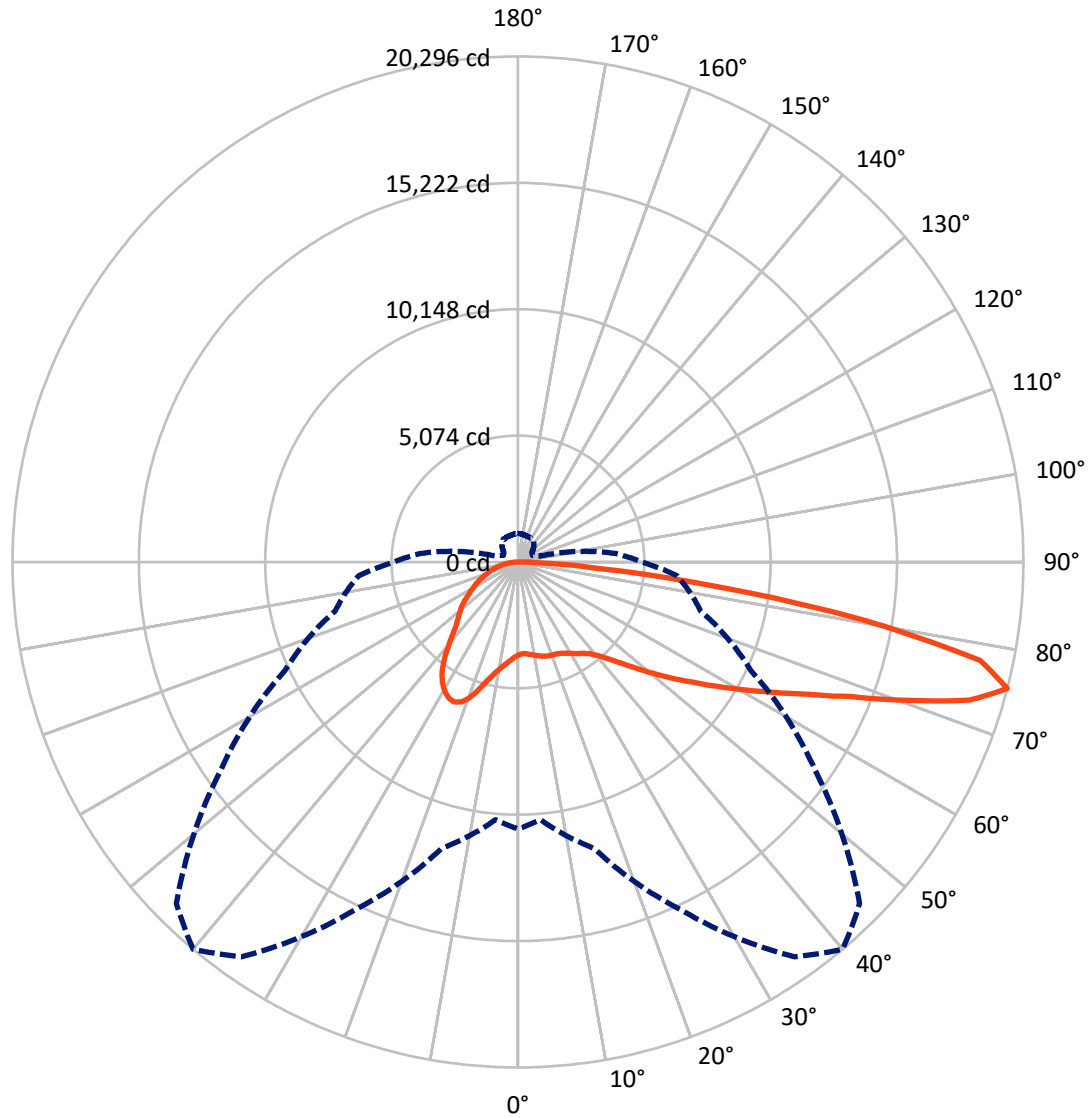
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P941842  
CATALOG NUMBER: GALN-SB5C-827-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P941842  
 CATALOG NUMBER: GALN-SB5C-827-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10103.4	0.0	10103.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	22505.6	0.0	22505.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	32609.0	0.0	32609.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.2	1.1
10°-20°	1249.7	3.8
20°-30°	2281.8	7.0
30°-40°	3236.3	9.9
40°-50°	4369.9	13.4
50°-60°	5878.7	18.0
60°-70°	7461.5	22.9
70°-80°	6771.7	20.8
80°-90°	987.1	3.0
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°	32609.0	100.0
0°-180°	32609.0	100.0



REPORT NUMBER: P941842

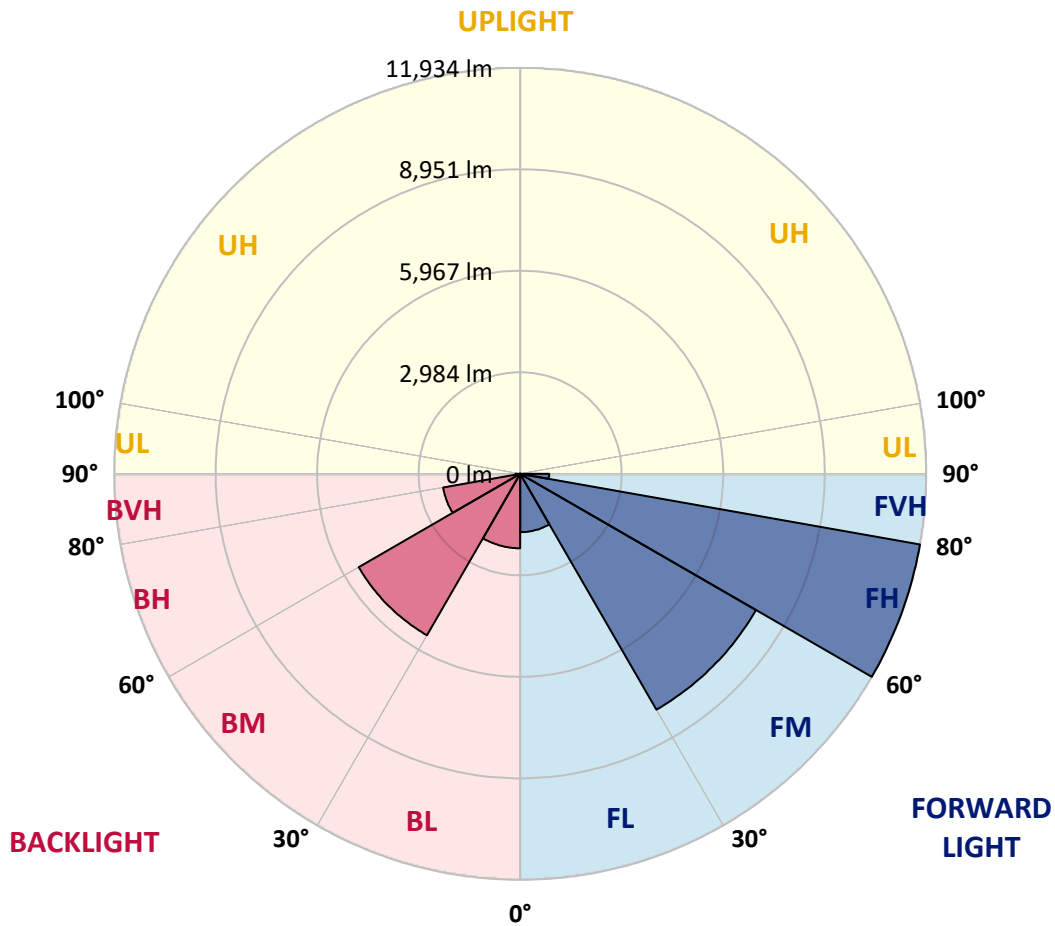
CATALOG NUMBER: GALN-SB5C-827-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1715.3	5.3			
FM (30°-60°)	8004.8	24.5			
FH (60°-80°)	11934.4	36.6			G4/12000
FVH (80°-90°)	851.2	2.6			G5
BL (0°-30°)	2188.5	6.7	B3/2500		
BM (30°-60°)	5480.2	16.8	B4/8500		
BH (60°-80°)	2298.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	135.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



REPORT NUMBER: P941842

CATALOG NUMBER: GALN-SB5C-827-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9
2.5°	3671.8	3692.6	3687.4	3680.5	3680.5	3682.2	3680.5	3692.6	3704.7	3716.8
5°	3709.9	3730.6	3720.2	3711.6	3704.7	3702.9	3697.8	3696.0	3702.9	3718.5
7.5°	3784.2	3805.0	3789.4	3773.9	3760.0	3753.1	3746.2	3735.8	3730.6	3739.3
10°	3867.2	3888.0	3869.0	3841.3	3818.8	3810.2	3803.3	3792.9	3786.0	3791.1
12.5°	3950.3	3971.0	3945.1	3907.0	3877.6	3872.4	3863.8	3860.3	3858.6	3856.9
15°	4028.1	4045.4	4012.5	3967.6	3936.4	3927.8	3919.1	3924.3	3933.0	3943.3
17.5°	4088.6	4105.9	4057.5	3998.7	3969.3	3965.8	3960.6	3977.9	4002.1	4028.1
20°	4144.0	4161.3	4099.0	4019.4	3984.9	3984.9	3986.6	4022.9	4057.5	4095.5
22.5°	4221.8	4235.6	4159.5	4050.6	4000.4	4003.9	4017.7	4054.0	4097.3	4149.2
25°	4337.7	4348.1	4254.7	4109.4	4052.3	4062.7	4074.8	4092.1	4133.6	4194.1
27.5°	4524.5	4533.1	4410.3	4213.2	4126.7	4144.0	4161.3	4149.2	4168.2	4220.1
30°	4787.4	4792.5	4636.9	4375.7	4252.9	4261.6	4265.0	4214.9	4178.6	4220.1
32.5°	5098.7	5096.9	4911.9	4572.9	4396.5	4387.8	4358.4	4259.9	4175.1	4211.4
35°	5581.2	5562.2	5323.5	4849.6	4559.1	4505.4	4436.3	4310.0	4192.4	4202.8
37.5°	6380.3	6321.5	5991.1	5302.8	4801.2	4664.6	4562.5	4391.3	4230.4	4199.3
40°	7281.4	7207.0	6843.8	5923.7	5164.4	4944.7	4780.4	4507.2	4292.7	4214.9
42.5°	8350.2	8244.7	7853.8	6655.3	5624.5	5306.2	5058.9	4654.2	4384.4	4265.0
45°	9662.9	9522.8	8969.4	7480.2	6203.9	5780.1	5449.8	4877.3	4524.5	4361.9
47.5°	10989.5	11024.1	10237.1	8424.6	6899.1	6364.7	5939.2	5212.8	4728.6	4517.6
50°	12399.1	12423.3	11498.0	9470.9	7687.8	7025.4	6489.2	5588.1	5012.2	4738.9
52.5°	13499.0	13502.5	12642.9	10565.7	8509.3	7751.8	7082.5	6017.1	5340.8	5033.0
55°	14187.4	14178.7	13445.4	11601.7	9453.7	8514.5	7739.7	6504.8	5742.1	5378.9
57.5°	14687.2	14661.3	13998.9	12492.4	10460.2	9415.6	8483.4	7058.2	6216.0	5790.5
60°	14877.5	14861.9	14374.2	13262.1	11518.7	10411.8	9341.2	7677.4	6753.8	6276.5
62.5°	14950.1	14979.5	14742.6	14007.5	12651.6	11515.3	10283.8	8417.7	7359.2	6826.5
65°	15206.1	15259.7	15211.3	14983.0	13931.4	12807.2	11534.3	9298.0	8019.9	7416.3
67.5°	15712.8	15766.5	15787.2	16150.4	15494.9	14417.4	13094.3	10394.5	8793.0	8028.5
70°	15700.7	15685.2	16051.8	17079.2	17452.8	16646.8	15197.4	11743.6	9714.8	8537.0
72.5°	14291.2	14166.6	15033.1	17068.8	19082.0	18974.8	17765.8	13483.5	10510.4	8599.3
75°	10721.4	10389.3	11920.0	15382.5	19353.5	20296.1	19398.5	14562.7	10321.9	7597.9
77.5°	4585.0	4251.2	6055.1	11387.3	17321.3	18973.0	17900.7	12705.2	8239.5	5024.3
80°	1200.3	1198.6	1829.9	5162.7	11779.9	14011.0	12291.8	8204.9	4707.8	1795.3
82.5°	496.4	484.3	672.8	2008.0	5755.9	7862.5	6416.6	3659.7	1700.1	486.0
85°	185.1	183.3	326.9	693.5	2030.5	3242.9	2347.0	935.7	423.7	236.9
87.5°	51.9	50.2	70.9	240.4	494.6	750.6	401.3	153.9	119.3	93.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941842  
 CATALOG NUMBER: GALN-SB5C-827-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3728.9	0°	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9	3728.9
3735.8	2.5°	3741.0	3749.6	3765.2	3777.3	3792.9	3810.2	3834.4	3850.0	3865.5	3875.9
3744.4	5°	3756.6	3775.6	3815.4	3855.1	3901.8	3945.1	3995.2	4031.6	4061.0	4069.6
3775.6	7.5°	3791.1	3822.3	3889.7	3957.2	4031.6	4102.5	4175.1	4237.4	4287.5	4306.5
3830.9	10°	3851.7	3893.2	3988.3	4083.4	4182.0	4291.0	4384.4	4474.3	4545.2	4574.6
3896.6	12.5°	3927.8	3979.7	4104.2	4235.6	4372.3	4522.7	4643.8	4754.5	4842.7	4882.5
3988.3	15°	4026.4	4093.8	4252.9	4429.3	4630.0	4839.2	4993.2	5116.0	5214.6	5263.0
4083.4	17.5°	4133.6	4223.5	4424.2	4690.5	4977.6	5252.6	5432.5	5522.4	5624.5	5671.2
4171.6	20°	4237.4	4348.1	4635.2	5022.6	5404.8	5697.1	5842.4	5866.6	5873.5	5878.7
4254.7	22.5°	4344.6	4493.3	4899.8	5441.1	5851.0	6053.4	6074.1	5970.4	5825.1	5757.6
4336.0	25°	4462.2	4659.4	5245.7	5902.9	6235.0	6259.2	6100.1	5847.6	5572.6	5446.3
4401.7	27.5°	4576.4	4851.4	5660.8	6343.9	6511.7	6299.0	5956.5	5598.5	5266.4	5133.3
4448.4	30°	4690.5	5071.0	6119.1	6729.6	6638.0	6200.4	5730.0	5330.4	4996.6	4856.5
4489.9	32.5°	4806.4	5327.0	6646.6	7008.1	6615.5	5991.1	5448.0	5029.5	4735.5	4588.5
4526.2	35°	4937.8	5641.8	7146.4	7160.3	6465.0	5683.3	5076.2	4669.8	4413.8	4296.2
4569.4	37.5°	5109.1	6041.3	7587.5	7198.3	6202.1	5231.9	4614.4	4244.3	4033.3	3979.7
4633.4	40°	5321.8	6522.1	7924.7	7137.8	5813.0	4683.6	4109.4	3813.6	3694.3	3706.4
4719.9	42.5°	5598.5	7060.0	8161.7	6982.1	5271.6	4118.0	3666.6	3535.2	3592.2	3640.7
4849.6	45°	5958.3	7618.6	8308.7	6717.5	4659.4	3638.9	3405.5	3436.6	3479.8	3485.0
5058.9	47.5°	6418.3	8184.2	8405.6	6318.0	4035.0	3301.7	3239.4	3246.3	3237.7	3201.4
5371.9	50°	6992.5	8734.2	8492.0	5788.8	3504.0	3090.7	3007.7	2983.5	2864.1	2746.5
5788.8	52.5°	7646.3	9239.2	8528.3	5131.5	3090.7	2914.3	2779.4	2627.2	2404.1	2367.7
6312.8	55°	8372.7	9706.2	8435.0	4323.8	2743.0	2687.7	2483.6	2300.3	2276.1	2244.9
7002.9	57.5°	9240.9	10209.5	8244.7	3422.8	2386.8	2423.1	2224.2	2244.9	2201.7	2153.3
7890.1	60°	10190.4	10730.0	7910.9	2601.2	2018.4	2092.7	2156.7	2155.0	2142.9	2103.1
8825.8	62.5°	11044.8	11072.5	7253.7	1992.4	1694.9	1836.8	2011.5	2009.7	1999.3	1976.9
9803.0	65°	11553.3	11020.6	6157.2	1568.7	1428.6	1625.8	1814.3	1828.1	1829.9	1828.1
10538.1	67.5°	11463.4	10413.5	4652.5	1248.7	1208.9	1411.3	1618.8	1637.9	1651.7	1655.2
10631.5	70°	10446.4	9080.1	3033.6	996.2	1013.5	1222.8	1433.8	1452.8	1464.9	1478.8
9225.4	72.5°	8142.7	6676.0	1736.5	806.0	842.3	1060.2	1250.5	1272.9	1279.9	1305.8
6420.0	75°	4962.0	3926.0	937.4	634.7	691.8	906.3	1068.9	1094.8	1106.9	1138.0
3152.9	77.5°	2359.1	1700.1	534.4	494.6	556.9	740.2	902.8	932.2	899.4	916.7
870.0	80°	797.3	631.3	337.3	377.0	425.5	577.7	722.9	752.3	683.2	679.7
288.8	82.5°	278.5	256.0	214.5	250.8	275.0	413.4	546.5	584.6	508.5	506.8
129.7	85°	109.0	103.8	119.3	136.6	164.3	254.2	359.7	378.8	313.0	252.5
38.0	87.5°	22.5	24.2	29.4	31.1	50.2	88.2	129.7	159.1	126.3	107.2
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>
3728.9
3869.0
4073.1
4308.3
4576.4
4882.5
5259.5
5669.4
5892.5
5776.7
5465.3
5148.8
4872.1
4607.5
4322.1
4017.7
3747.9
3685.6
3519.6
3229.0
2762.1
2379.8
2250.1
2144.6
2089.3
1968.2
1828.1
1658.6
1485.7
1316.2
1141.5
902.8
672.8
482.5
249.1
98.6
0.0

F REPORT)