

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: P943032

Luminaire Tested: **GALN-SB7B-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943032  
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-SB7B-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

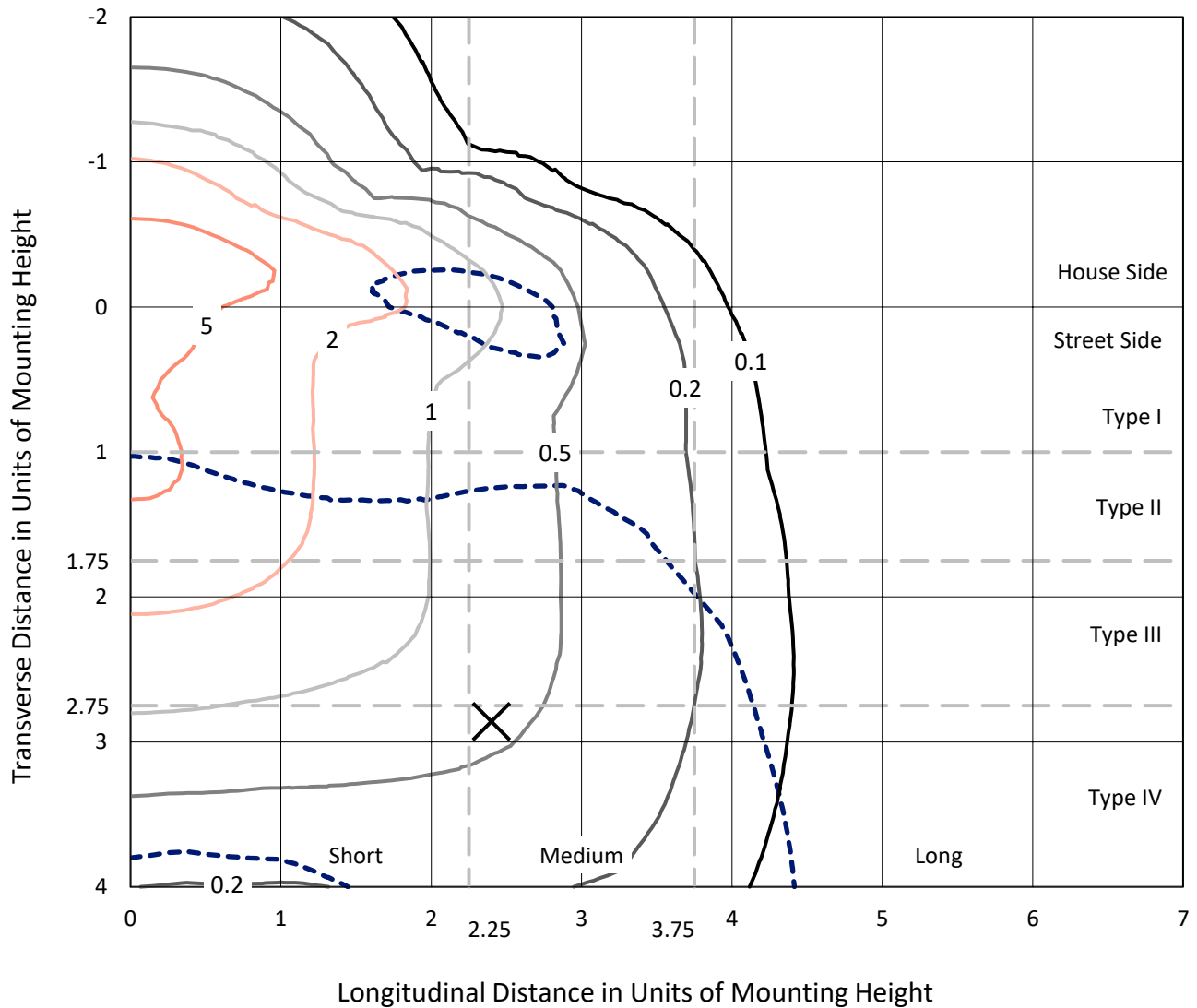
Lumens per Lamp: N/A  
Luminaire Lumens: 34519 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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: P943032  
 CATALOG NUMBER: GALN-SB7B-827-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

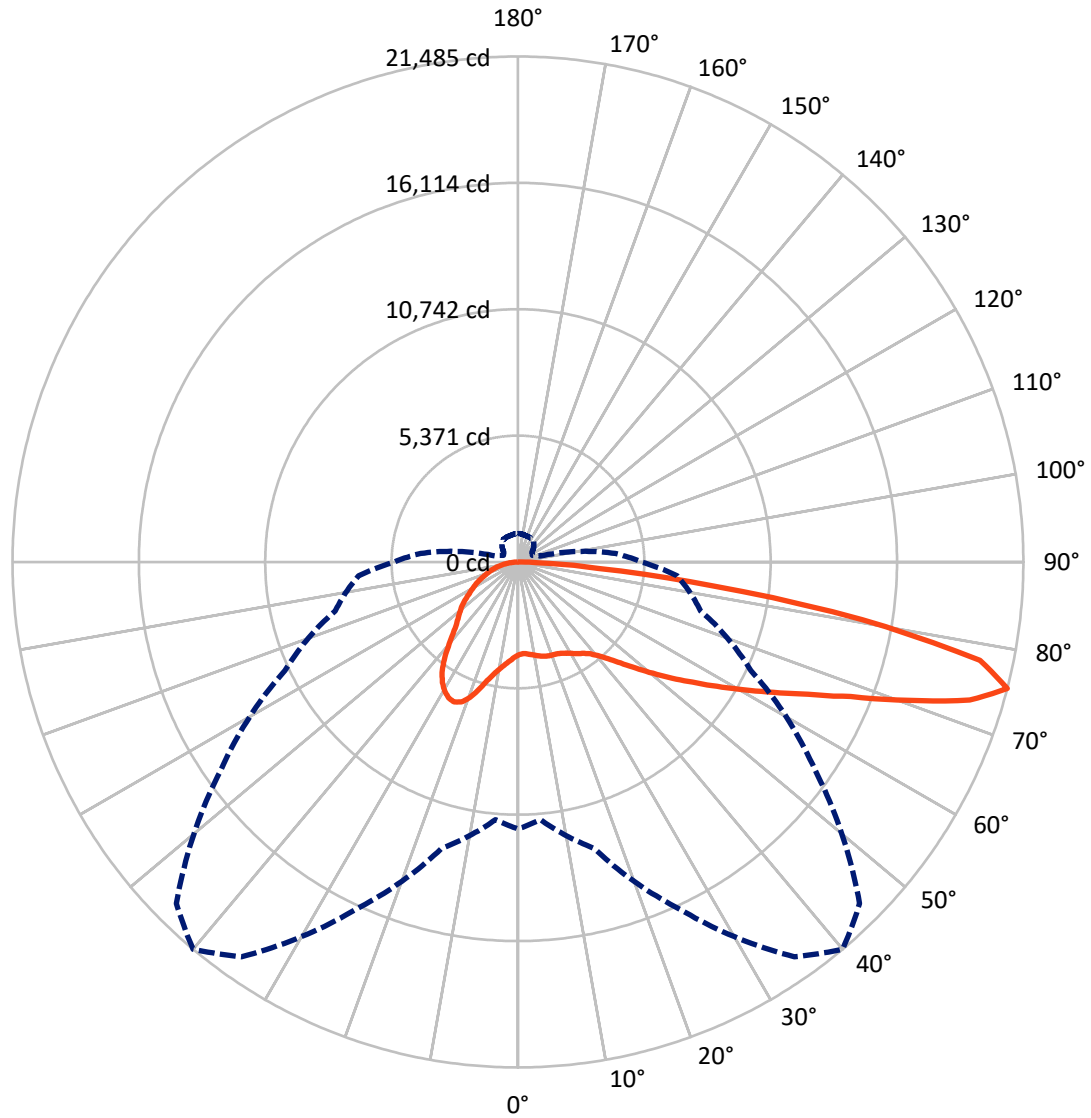
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P943032  
CATALOG NUMBER: GALN-SB7B-827-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P943032

CATALOG NUMBER: GALN-SB7B-827-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10695.1	0.0	10695.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	23823.9	0.0	23823.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	34519.0	0.0	34519.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.0	1.1
10°-20°	1322.9	3.8
20°-30°	2415.5	7.0
30°-40°	3425.8	9.9
40°-50°	4625.9	13.4
50°-60°	6223.1	18.0
60°-70°	7898.5	22.9
70°-80°	7168.4	20.8
80°-90°	1044.9	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°	34519.0	100.0
0°-180°	34519.0	100.0

**Coefficient of Utilization**

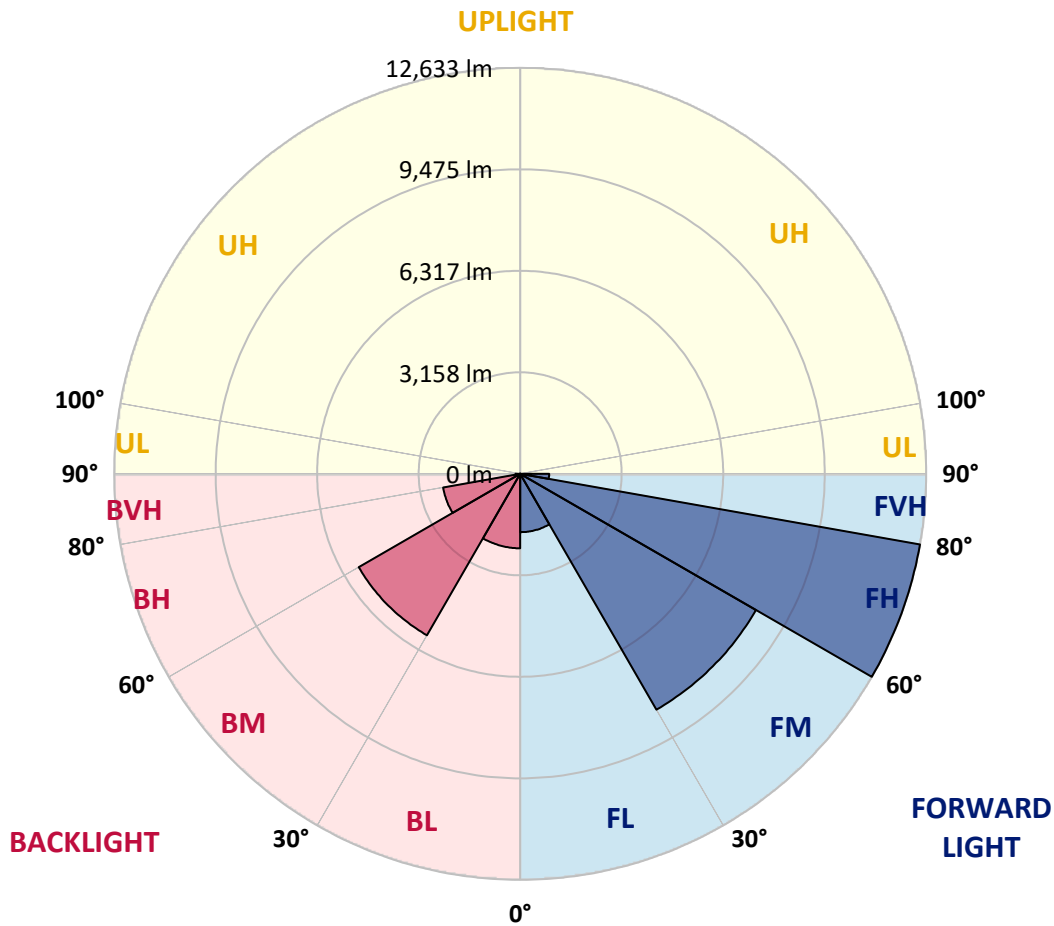


REPORT NUMBER: P943032  
 CATALOG NUMBER: GALN-SB7B-827-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.7	5.3			
FM (30°-60°)	8473.6	24.5			
FH (60°-80°)	12633.4	36.6			G5
FVH (80°-90°)	901.1	2.6			G5
BL (0°-30°)	2316.7	6.7	B3/2500		
BM (30°-60°)	5801.2	16.8	B4/8500		
BH (60°-80°)	2433.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	143.9	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: P943032

CATALOG NUMBER: GALN-SB7B-827-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3
2.5°	3886.9	3908.8	3903.4	3896.0	3896.0	3897.9	3896.0	3908.8	3921.7	3934.5
5°	3927.2	3949.1	3938.1	3929.0	3921.7	3919.8	3914.3	3912.5	3919.8	3936.3
7.5°	4005.9	4027.9	4011.4	3994.9	3980.2	3972.9	3965.6	3954.6	3949.1	3958.3
10°	4093.8	4115.7	4095.6	4066.3	4042.5	4033.3	4026.0	4015.0	4007.7	4013.2
12.5°	4181.6	4203.6	4176.1	4135.9	4104.7	4099.3	4090.1	4086.4	4084.6	4082.8
15°	4264.0	4282.3	4247.6	4199.9	4167.0	4157.8	4148.7	4154.2	4163.3	4174.3
17.5°	4328.1	4346.4	4295.2	4232.9	4201.8	4198.1	4192.6	4210.9	4236.6	4264.0
20°	4386.7	4405.0	4339.1	4254.9	4218.3	4218.3	4220.1	4258.5	4295.2	4335.4
22.5°	4469.1	4483.7	4403.2	4287.8	4234.7	4238.4	4253.0	4291.5	4337.3	4392.2
25°	4591.7	4602.7	4503.9	4350.1	4289.7	4300.6	4313.5	4331.8	4375.7	4439.8
27.5°	4789.5	4798.6	4668.6	4459.9	4368.4	4386.7	4405.0	4392.2	4412.3	4467.3
30°	5067.8	5073.3	4908.5	4632.0	4502.0	4511.2	4514.9	4461.8	4423.3	4467.3
32.5°	5397.3	5395.5	5199.6	4840.7	4654.0	4644.8	4613.7	4509.4	4419.7	4458.1
35°	5908.1	5888.0	5635.3	5133.7	4826.1	4769.3	4696.1	4562.5	4438.0	4448.9
37.5°	6754.0	6691.7	6342.0	5613.4	5082.4	4937.8	4829.8	4648.5	4478.2	4445.3
40°	7707.8	7629.1	7244.6	6270.6	5466.9	5234.4	5060.4	4771.2	4544.1	4461.8
42.5°	8839.3	8727.6	8313.8	7045.1	5953.9	5617.0	5355.2	4926.8	4641.2	4514.9
45°	10228.9	10080.6	9494.7	7918.4	6567.2	6118.7	5769.0	5163.0	4789.5	4617.4
47.5°	11633.2	11669.8	10836.7	8918.0	7303.2	6737.5	6287.1	5518.2	5005.5	4782.2
50°	13125.3	13150.9	12171.4	10025.7	8138.1	7436.9	6869.3	5915.4	5305.8	5016.5
52.5°	14289.7	14293.4	13383.4	11184.6	9007.7	8205.8	7497.3	6369.5	5653.6	5327.7
55°	15018.4	15009.2	14233.0	12281.3	10007.4	9013.2	8193.0	6885.8	6078.4	5693.9
57.5°	15547.5	15520.0	14818.8	13224.2	11072.9	9967.1	8980.3	7471.7	6580.0	6129.7
60°	15748.9	15732.4	15216.1	14038.9	12193.4	11021.7	9888.4	8127.1	7149.4	6644.1
62.5°	15825.8	15856.9	15606.1	14828.0	13392.6	12189.7	10886.2	8910.7	7790.2	7226.3
65°	16096.8	16153.5	16102.2	15860.6	14747.4	13557.4	12209.9	9842.6	8489.6	7850.6
67.5°	16633.2	16689.9	16711.9	17096.4	16402.5	15261.9	13861.3	11003.4	9308.0	8498.8
70°	16620.4	16603.9	16992.0	18079.6	18475.0	17621.8	16087.6	12431.4	10283.8	9037.0
72.5°	15128.2	14996.4	15913.7	18068.6	20199.7	20086.2	18806.4	14273.2	11126.0	9102.9
75°	11349.4	10997.9	12618.2	16283.5	20487.1	21484.9	20534.7	15415.7	10926.5	8042.9
77.5°	4853.6	4500.2	6409.8	12054.3	18335.9	20084.3	18949.2	13449.4	8722.1	5318.6
80°	1270.6	1268.8	1937.0	5465.1	12469.9	14831.6	13011.8	8685.5	4983.5	1900.4
82.5°	525.5	512.6	712.2	2125.6	6093.0	8323.0	6792.4	3874.1	1799.7	514.5
85°	195.9	194.1	346.0	734.2	2149.4	3432.8	2484.5	990.5	448.6	250.8
87.5°	54.9	53.1	75.1	254.5	523.6	794.6	424.8	162.9	126.3	98.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943032  
 CATALOG NUMBER: GALN-SB7B-827-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3947.3	0°	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3	3947.3
3954.6	2.5°	3960.1	3969.3	3985.7	3998.6	4015.0	4033.3	4059.0	4075.5	4091.9	4102.9
3963.8	5°	3976.6	3996.7	4038.8	4080.9	4130.4	4176.1	4229.2	4267.7	4298.8	4308.0
3996.7	7.5°	4013.2	4046.2	4117.6	4189.0	4267.7	4342.8	4419.7	4485.6	4538.7	4558.8
4055.3	10°	4077.3	4121.2	4221.9	4322.6	4427.0	4542.3	4641.2	4736.4	4811.5	4842.6
4124.9	12.5°	4157.8	4212.8	4344.6	4483.7	4628.4	4787.6	4915.8	5033.0	5126.4	5168.5
4221.9	15°	4262.2	4333.6	4502.0	4688.8	4901.2	5122.7	5285.6	5415.6	5520.0	5571.2
4322.6	17.5°	4375.7	4470.9	4683.3	4965.2	5269.2	5560.3	5750.7	5845.9	5953.9	6003.3
4416.0	20°	4485.6	4602.7	4906.7	5316.8	5721.4	6030.8	6184.6	6210.2	6217.5	6223.0
4503.9	22.5°	4599.1	4756.5	5186.8	5759.8	6193.7	6407.9	6429.9	6320.1	6166.3	6094.9
4589.9	25°	4723.6	4932.3	5552.9	6248.7	6600.2	6625.8	6457.4	6190.1	5899.0	5765.3
4659.5	27.5°	4844.4	5135.5	5992.3	6715.5	6893.1	6667.9	6305.4	5926.4	5574.9	5433.9
4708.9	30°	4965.2	5368.0	6477.5	7123.8	7026.8	6563.6	6065.6	5642.7	5289.3	5141.0
4752.9	32.5°	5087.9	5639.0	7035.9	7418.6	7003.0	6342.0	5767.1	5324.1	5012.8	4857.2
4791.3	35°	5227.1	5972.2	7565.0	7579.7	6843.7	6016.1	5373.5	4943.3	4672.3	4547.8
4837.1	37.5°	5408.3	6395.1	8031.9	7620.0	6565.4	5538.3	4884.7	4492.9	4269.5	4212.8
4904.8	40°	5633.5	6904.1	8388.9	7555.9	6153.5	4957.9	4350.1	4037.0	3910.7	3923.5
4996.4	42.5°	5926.4	7473.5	8639.7	7391.1	5580.4	4359.2	3881.4	3742.2	3802.7	3853.9
5133.7	45°	6307.2	8064.9	8795.4	7111.0	4932.3	3852.1	3604.9	3637.9	3683.7	3689.1
5355.2	47.5°	6794.3	8663.5	8897.9	6688.1	4271.4	3495.1	3429.2	3436.5	3427.3	3388.9
5686.6	50°	7402.1	9245.7	8989.4	6127.8	3709.3	3271.7	3183.8	3158.2	3031.9	2907.4
6127.8	52.5°	8094.1	9780.4	9027.9	5432.1	3271.7	3085.0	2942.2	2781.0	2544.9	2506.4
6682.6	55°	8863.1	10274.7	8929.0	4577.1	2903.7	2845.1	2629.1	2435.0	2409.4	2376.4
7413.1	57.5°	9782.2	10807.5	8727.6	3623.2	2526.6	2565.0	2354.5	2376.4	2330.7	2279.4
8352.3	60°	10787.3	11358.5	8374.3	2753.6	2136.6	2215.3	2283.1	2281.2	2268.4	2226.3
9342.8	62.5°	11691.8	11721.0	7678.5	2109.1	1794.2	1944.4	2129.3	2127.4	2116.5	2092.7
10377.2	65°	12230.0	11666.1	6517.8	1660.6	1512.3	1721.0	1920.6	1935.2	1937.0	1935.2
11155.3	67.5°	12134.8	11023.5	4925.0	1321.9	1279.8	1494.0	1713.7	1733.8	1748.5	1752.1
11254.2	70°	11058.3	9611.9	3211.3	1054.6	1072.9	1294.4	1517.8	1537.9	1550.7	1565.4
9765.7	72.5°	8619.6	7067.0	1838.2	853.2	891.6	1122.3	1323.7	1347.5	1354.8	1382.3
6796.1	75°	5252.7	4156.0	992.3	671.9	732.3	959.4	1131.5	1158.9	1171.7	1204.7
3337.6	77.5°	2497.3	1799.7	565.7	523.6	589.5	783.6	955.7	986.8	952.0	970.3
920.9	80°	844.0	668.3	357.0	399.1	450.4	611.5	765.3	796.4	723.2	719.5
305.8	82.5°	294.8	271.0	227.0	265.5	291.1	437.6	578.5	618.8	538.3	536.4
137.3	85°	115.3	109.9	126.3	144.6	173.9	269.1	380.8	401.0	331.4	267.3
40.3	87.5°	23.8	25.6	31.1	33.0	53.1	93.4	137.3	168.4	133.7	113.5
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>
3947.3
4095.6
4311.6
4560.6
4844.4
5168.5
5567.6
6001.5
6237.7
6115.0
5785.5
5450.4
5157.5
4877.4
4575.3
4253.0
3967.4
3901.5
3725.8
3418.2
2923.9
2519.2
2381.9
2270.2
2211.7
2083.5
1935.2
1755.8
1572.7
1393.3
1208.4
955.7
712.2
510.8
263.6
104.4
0.0

F REPORT)