

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: P943502

Luminaire Tested: **GALN-SB8A-735-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943502  
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-SB8A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

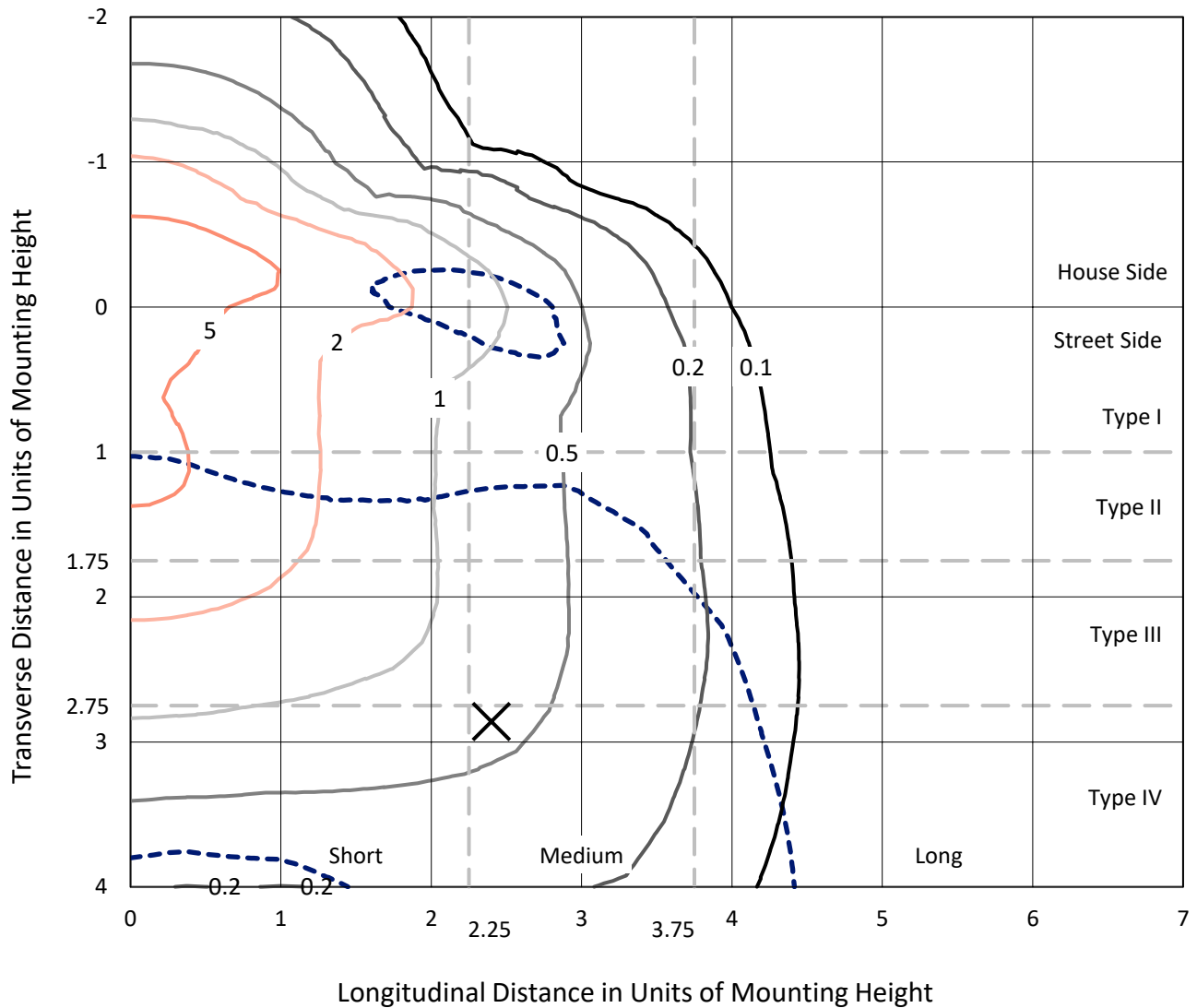
Lumens per Lamp: N/A  
Luminaire Lumens: 35956 lumens  
Efficiency: N/A  
Efficacy: 158.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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: P943502  
 CATALOG NUMBER: GALN-SB8A-735-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

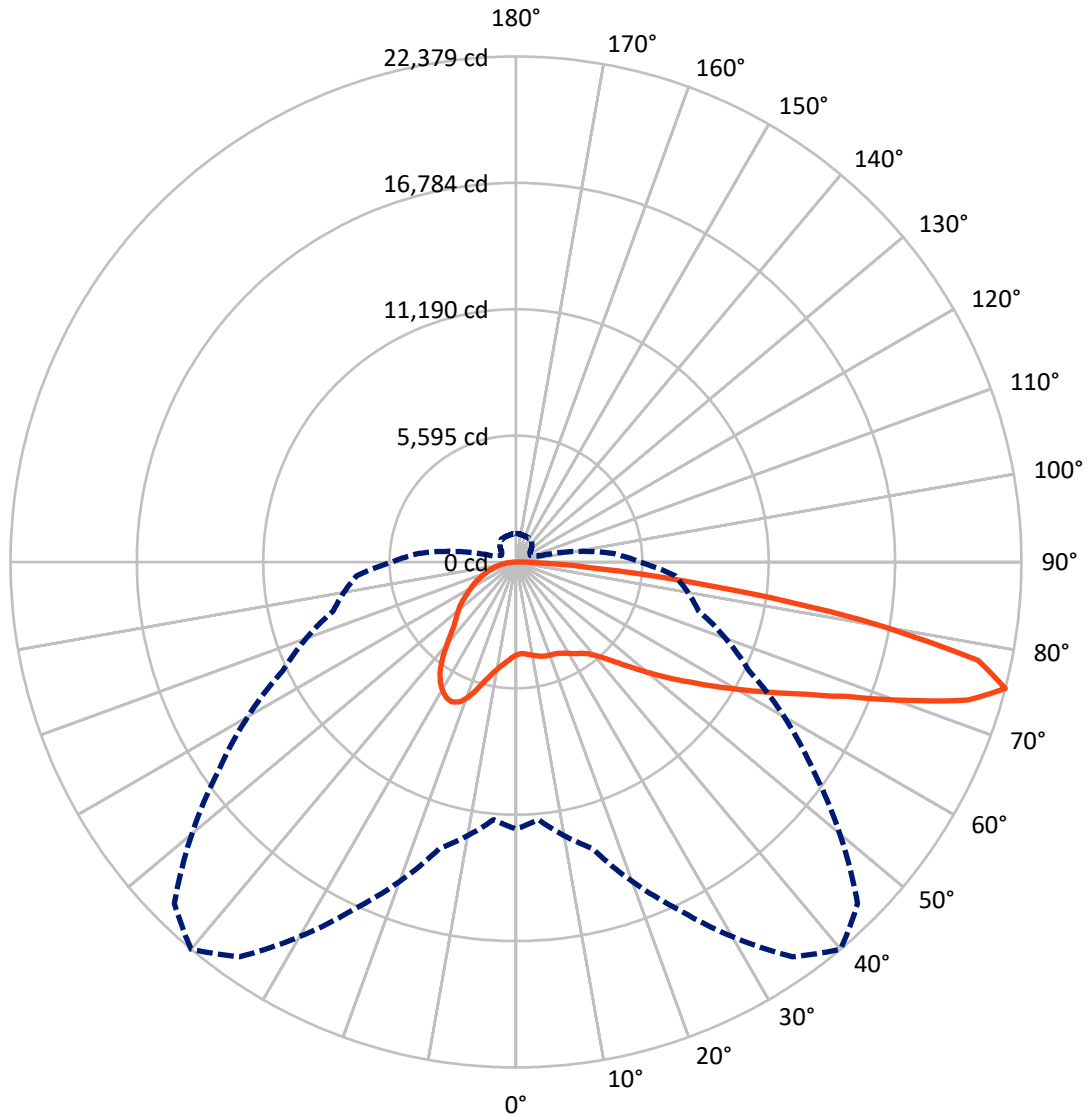
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P943502  
CATALOG NUMBER: GALN-SB8A-735-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P943502  
 CATALOG NUMBER: GALN-SB8A-735-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11140.4	0.0	11140.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	24815.6	0.0	24815.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	35956.0	0.0	35956.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.4	1.1
10°-20°	1378.0	3.8
20°-30°	2516.0	7.0
30°-40°	3568.4	9.9
40°-50°	4818.5	13.4
50°-60°	6482.1	18.0
60°-70°	8227.3	22.9
70°-80°	7466.8	20.8
80°-90°	1088.4	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°	35956.0	100.0
0°-180°	35956.0	100.0



REPORT NUMBER: P943502

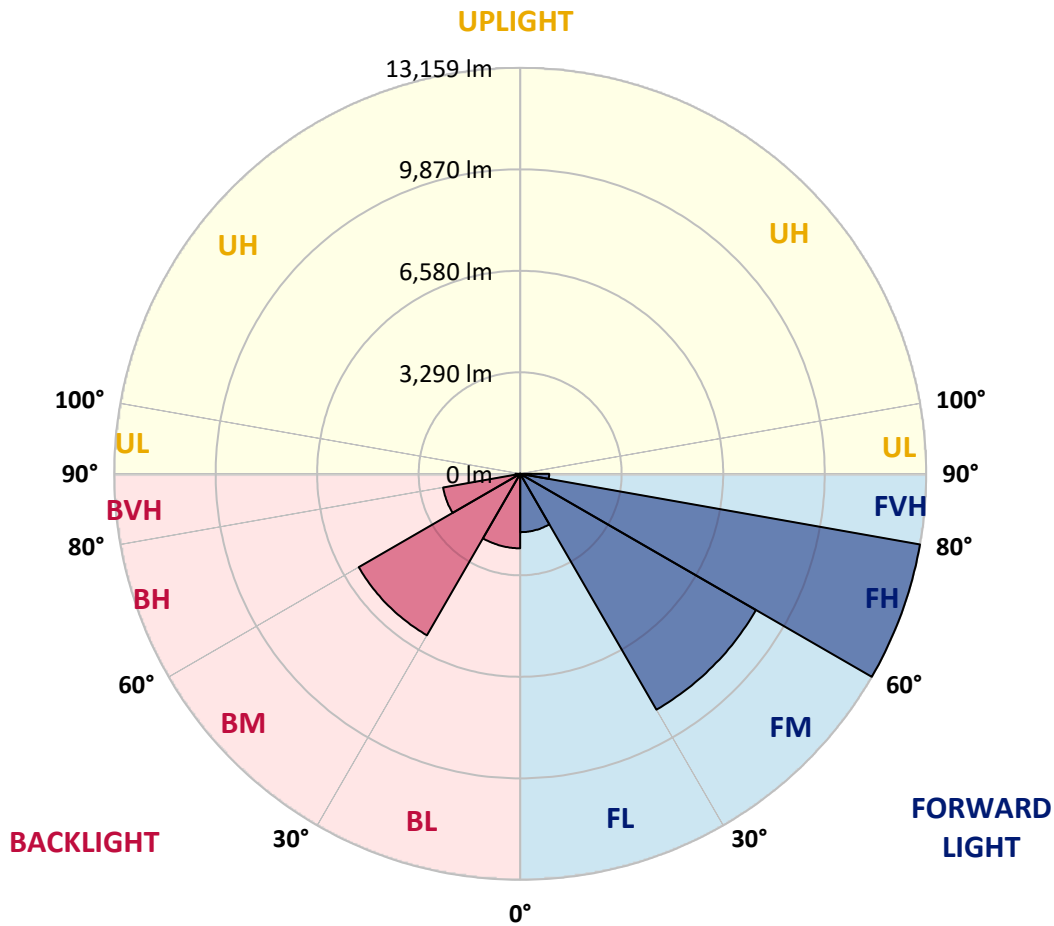
CATALOG NUMBER: GALN-SB8A-735-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1891.3	5.3			
FM (30°-60°)	8826.4	24.5			
FH (60°-80°)	13159.3	36.6			G5
FVH (80°-90°)	938.6	2.6			G5
BL (0°-30°)	2413.1	6.7	B3/2500		
BM (30°-60°)	6042.6	16.8	B4/8500		
BH (60°-80°)	2534.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	149.8	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: P943502

CATALOG NUMBER: GALN-SB8A-735-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6
2.5°	4048.7	4071.6	4065.8	4058.2	4058.2	4060.1	4058.2	4071.6	4084.9	4098.3
5°	4090.6	4113.5	4102.1	4092.5	4084.9	4083.0	4077.3	4075.4	4083.0	4100.2
7.5°	4172.6	4195.5	4178.4	4161.2	4145.9	4138.3	4130.7	4119.2	4113.5	4123.1
10°	4264.2	4287.1	4266.1	4235.6	4210.8	4201.2	4193.6	4182.2	4174.5	4180.3
12.5°	4355.7	4378.6	4350.0	4308.0	4275.6	4269.9	4260.4	4256.6	4254.6	4252.7
15°	4441.5	4460.6	4424.4	4374.8	4340.5	4330.9	4321.4	4327.1	4336.6	4348.1
17.5°	4508.3	4527.4	4474.0	4409.1	4376.7	4372.9	4367.2	4386.2	4412.9	4441.5
20°	4569.3	4588.4	4519.7	4432.0	4393.9	4393.9	4395.8	4435.8	4474.0	4515.9
22.5°	4655.1	4670.4	4586.5	4466.3	4411.0	4414.8	4430.1	4470.1	4517.8	4575.0
25°	4782.9	4794.3	4691.4	4531.2	4468.2	4479.7	4493.0	4512.1	4557.9	4624.6
27.5°	4988.9	4998.4	4863.0	4645.6	4550.2	4569.3	4588.4	4575.0	4596.0	4653.2
30°	5278.7	5284.5	5112.8	4824.9	4689.5	4699.0	4702.8	4647.5	4607.5	4653.2
32.5°	5622.0	5620.1	5416.0	5042.3	4847.7	4838.2	4805.8	4697.1	4603.6	4643.7
35°	6154.1	6133.1	5869.9	5347.4	5027.0	4967.9	4891.6	4752.4	4622.7	4634.2
37.5°	7035.1	6970.3	6606.0	5847.0	5294.0	5143.3	5030.8	4842.0	4664.7	4630.3
40°	8028.7	7946.7	7546.2	6531.7	5694.5	5452.3	5271.1	4969.8	4733.3	4647.5
42.5°	9207.3	9090.9	8659.9	7338.4	6201.8	5850.9	5578.1	5131.9	4834.4	4702.8
45°	10654.7	10500.3	9890.0	8248.0	6840.6	6373.4	6009.1	5377.9	4988.9	4809.6
47.5°	12117.4	12155.6	11287.9	9289.3	7607.3	7018.0	6548.8	5747.9	5213.9	4981.2
50°	13671.7	13698.4	12678.1	10443.0	8476.9	7746.5	7155.3	6161.7	5526.7	5225.3
52.5°	14884.6	14888.4	13940.6	11650.2	9382.7	8547.4	7809.4	6634.7	5889.0	5549.5
55°	15643.6	15634.1	14825.5	12792.5	10424.0	9388.4	8534.1	7172.4	6331.4	5930.9
57.5°	16194.7	16166.1	15435.7	13774.7	11533.9	10382.0	9354.1	7782.7	6854.0	6384.8
60°	16404.5	16387.3	15849.6	14623.3	12701.0	11480.5	10300.0	8465.4	7447.1	6920.7
62.5°	16484.6	16517.0	16255.8	15445.3	13950.1	12697.2	11339.4	9281.7	8114.5	7527.2
65°	16766.9	16826.0	16772.6	16520.8	15361.4	14121.8	12718.2	10252.3	8843.0	8177.5
67.5°	17325.6	17384.7	17407.6	17808.1	17085.3	15897.2	14438.3	11461.4	9695.5	8852.6
70°	17312.3	17295.1	17699.4	18832.2	19244.1	18355.4	16757.3	12948.9	10711.9	9413.2
72.5°	15758.0	15620.7	16576.1	18820.8	21040.6	20922.3	19589.3	14867.4	11589.2	9481.9
75°	11821.9	11455.7	13143.4	16961.4	21340.0	22379.3	21389.6	16057.4	11381.3	8377.7
77.5°	5055.6	4687.5	6676.6	12556.1	19099.2	20920.4	19738.0	14009.2	9085.2	5540.0
80°	1323.5	1321.6	2017.7	5692.6	12989.0	15449.1	13553.5	9047.1	5191.0	1979.5
82.5°	547.3	534.0	741.8	2214.1	6346.7	8669.5	7075.2	4035.3	1874.6	535.9
85°	204.1	202.1	360.4	764.7	2238.9	3575.7	2587.9	1031.7	467.2	261.3
87.5°	57.2	55.3	78.2	265.1	545.4	827.7	442.4	169.7	131.6	103.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943502  
 CATALOG NUMBER: GALN-SB8A-735-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4111.6	0°	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6	4111.6
4119.2	2.5°	4125.0	4134.5	4151.7	4165.0	4182.2	4201.2	4227.9	4245.1	4262.3	4273.7
4128.8	5°	4142.1	4163.1	4207.0	4250.8	4302.3	4350.0	4405.3	4445.4	4477.8	4487.3
4163.1	7.5°	4180.3	4214.6	4289.0	4363.3	4445.4	4523.5	4603.6	4672.3	4727.6	4748.6
4224.1	10°	4247.0	4292.8	4397.7	4502.6	4611.3	4731.4	4834.4	4933.6	5011.7	5044.2
4296.6	12.5°	4330.9	4388.1	4525.4	4670.4	4821.0	4987.0	5120.5	5242.5	5339.8	5383.6
4397.7	15°	4439.6	4514.0	4689.5	4884.0	5105.2	5335.9	5505.7	5641.1	5749.8	5803.2
4502.6	17.5°	4557.9	4657.0	4878.3	5171.9	5488.5	5791.7	5990.1	6089.2	6201.8	6253.2
4599.8	20°	4672.3	4794.3	5110.9	5538.1	5959.6	6281.8	6442.0	6468.7	6476.4	6482.1
4691.4	22.5°	4790.5	4954.5	5402.7	5999.6	6451.6	6674.7	6697.6	6583.2	6423.0	6348.6
4781.0	25°	4920.2	5137.6	5784.1	6508.8	6874.9	6901.6	6726.2	6447.8	6144.5	6005.3
4853.5	27.5°	5046.1	5349.3	6241.8	6995.1	7180.1	6945.5	6567.9	6173.1	5807.0	5660.1
4905.0	30°	5171.9	5591.5	6747.2	7420.4	7319.3	6836.8	6318.1	5877.6	5509.5	5355.0
4950.7	32.5°	5299.7	5873.7	7328.8	7727.4	7294.5	6606.0	6007.2	5545.7	5221.5	5059.4
4990.8	35°	5444.6	6220.8	7880.0	7895.2	7128.6	6266.6	5597.2	5149.1	4866.8	4737.1
5038.4	37.5°	5633.4	6661.4	8366.3	7937.2	6838.7	5768.8	5088.0	4679.9	4447.3	4388.1
5109.0	40°	5868.0	7191.5	8738.1	7870.4	6409.6	5164.3	4531.2	4205.1	4073.5	4086.8
5204.4	42.5°	6173.1	7784.6	8999.4	7698.8	5812.7	4540.7	4043.0	3898.0	3961.0	4014.4
5347.4	45°	6569.8	8400.6	9161.5	7407.0	5137.6	4012.4	3755.0	3789.3	3837.0	3842.7
5578.1	47.5°	7077.1	9024.2	9268.3	6966.5	4449.2	3640.6	3571.9	3579.5	3570.0	3530.0
5923.3	50°	7710.2	9630.6	9363.7	6382.9	3863.7	3407.9	3316.4	3289.7	3158.1	3028.4
6382.9	52.5°	8431.1	10187.5	9403.7	5658.2	3407.9	3213.4	3064.6	2896.8	2650.8	2610.8
6960.8	55°	9232.1	10702.4	9300.7	4767.6	3024.6	2963.6	2738.5	2536.4	2509.7	2475.4
7721.7	57.5°	10189.4	11257.4	9090.9	3774.1	2631.7	2671.8	2452.5	2475.4	2427.7	2374.3
8700.0	60°	11236.4	11831.4	8722.9	2868.2	2225.5	2307.5	2378.1	2376.2	2362.8	2319.0
9731.7	62.5°	12178.5	12209.0	7998.2	2196.9	1868.9	2025.3	2217.9	2216.0	2204.6	2179.8
10809.2	65°	12739.1	12151.8	6789.1	1729.7	1575.2	1792.6	2000.5	2015.8	2017.7	2015.8
11619.7	67.5°	12640.0	11482.4	5130.0	1376.9	1333.0	1556.2	1785.0	1806.0	1821.2	1825.1
11722.7	70°	11518.6	10012.1	3345.0	1098.5	1117.5	1348.3	1581.0	1601.9	1615.3	1630.5
10172.2	72.5°	8978.4	7361.2	1914.7	888.7	928.7	1169.0	1378.8	1403.6	1411.2	1439.8
7079.0	75°	5471.3	4329.0	1033.6	699.9	762.8	999.3	1178.6	1207.2	1220.5	1254.8
3476.6	77.5°	2601.2	1874.6	589.3	545.4	614.1	816.2	995.5	1027.9	991.7	1010.7
959.3	80°	879.2	696.1	371.9	415.7	469.1	637.0	797.2	829.6	753.3	749.5
318.5	82.5°	307.0	282.2	236.5	276.5	303.2	455.8	602.6	644.6	560.7	558.8
143.0	85°	120.1	114.4	131.6	150.7	181.2	280.3	396.7	417.6	345.2	278.4
42.0	87.5°	24.8	26.7	32.4	34.3	55.3	97.3	143.0	175.4	139.2	118.2
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

180°  
4111.6  
4266.1  
4491.1  
4750.5  
5046.1  
5383.6  
5799.4  
6251.3  
6497.3  
6369.6  
6026.3  
5677.3  
5372.2  
5080.4  
4765.7  
4430.1  
4132.6  
4063.9  
3880.9  
3560.5  
3045.6  
2624.1  
2481.1  
2364.8  
2303.7  
2170.2  
2015.8  
1828.9  
1638.2  
1451.3  
*1258.7*  
995.5  
741.8  
532.1  
274.6  
108.7  
0.0

F REPORT)