

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: P944182

Luminaire Tested: **GALN-SB9A-735-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944182  
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-SB9A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

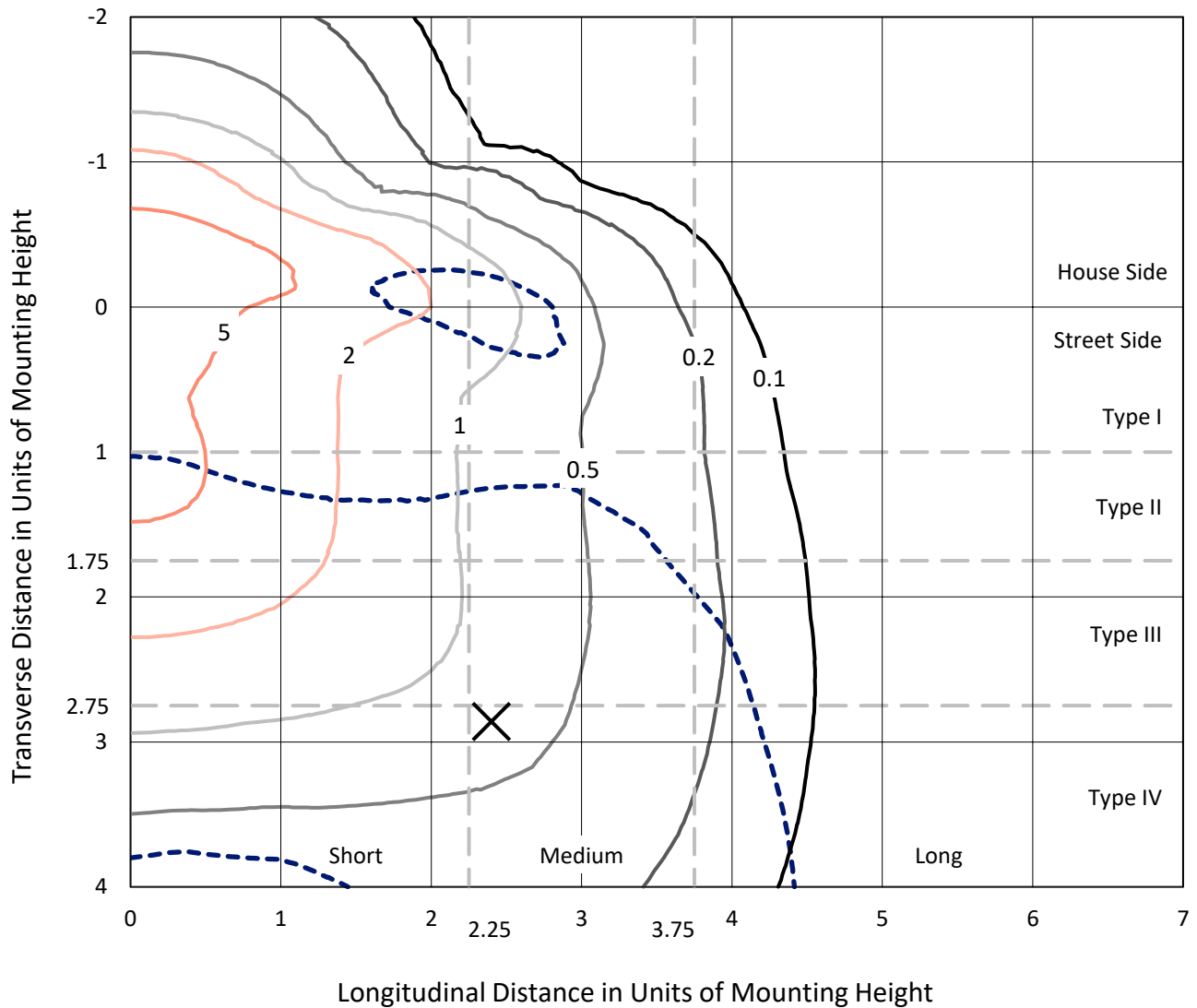
Lumens per Lamp: N/A  
Luminaire Lumens: 40501 lumens  
Efficiency: N/A  
Efficacy: 158.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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: P944182  
 CATALOG NUMBER: GALN-SB9A-735-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

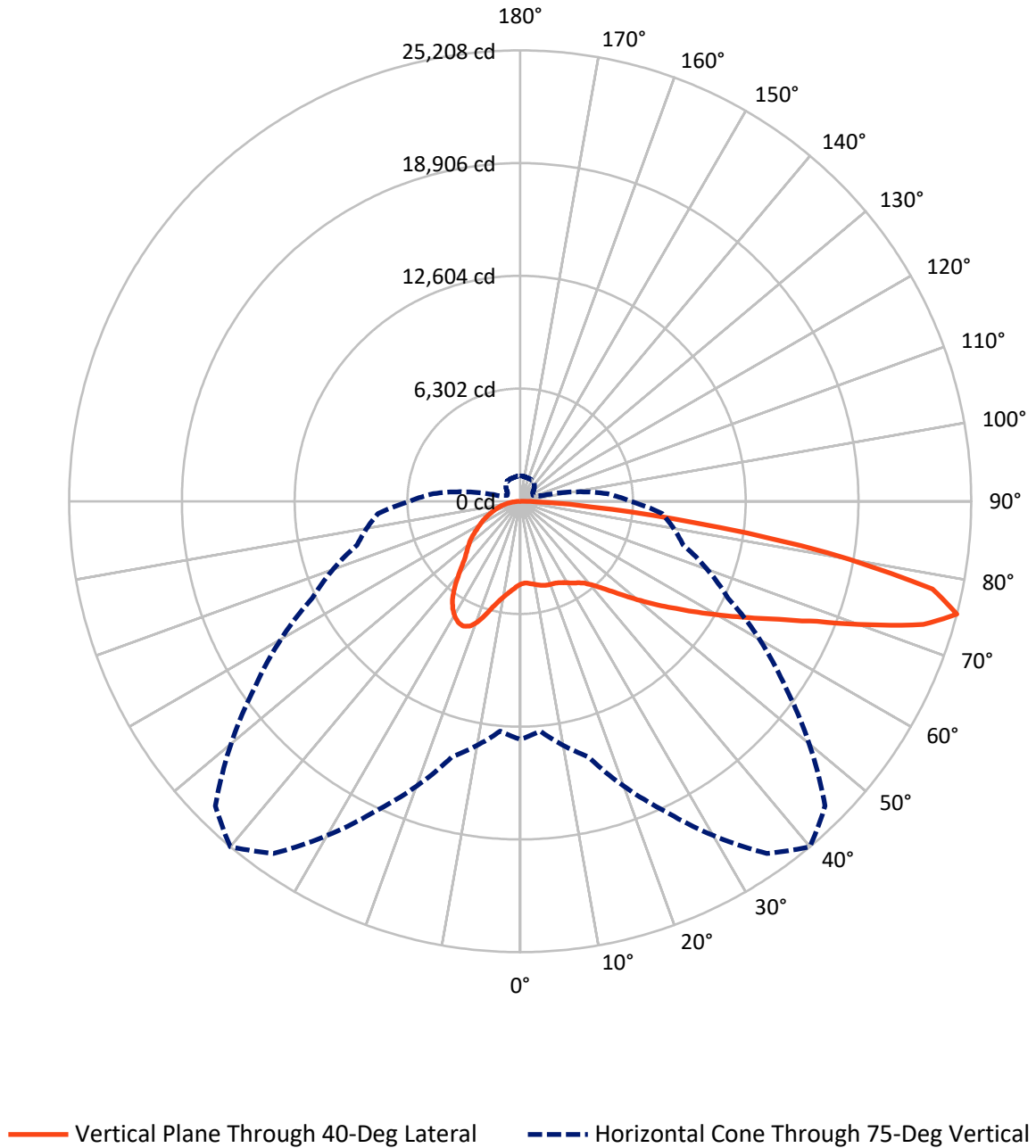
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P944182  
CATALOG NUMBER: GALN-SB9A-735-U-SL4

### Luminous Intensity Polar Plot



REPORT NUMBER: P944182  
 CATALOG NUMBER: GALN-SB9A-735-U-SL4

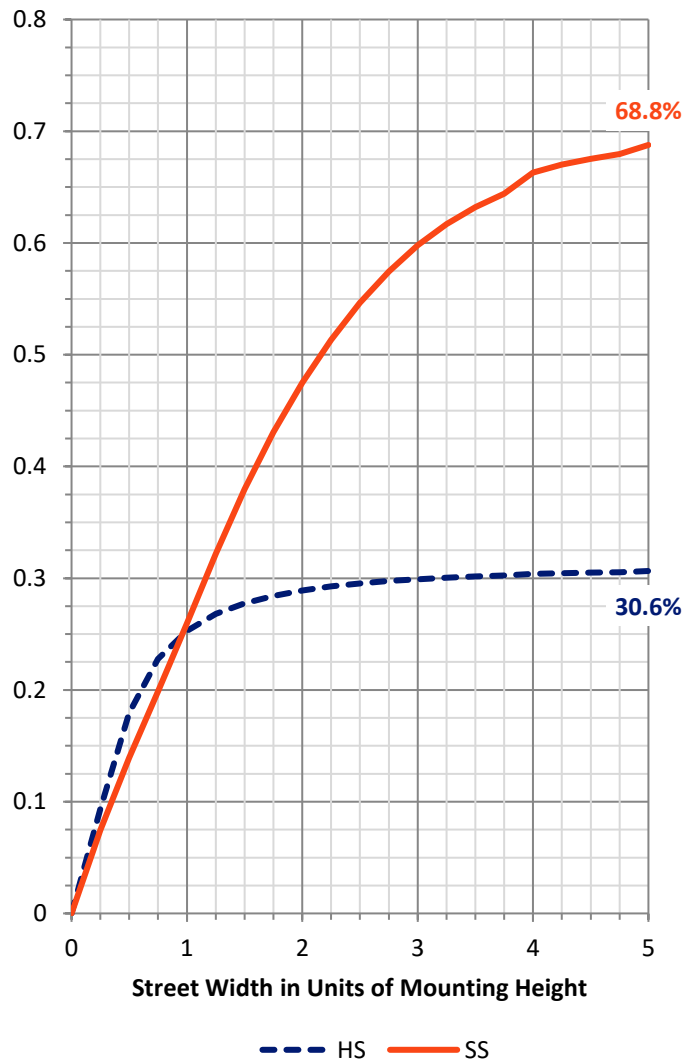
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12548.6	0.0	12548.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	27952.4	0.0	27952.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	40501.0	0.0	40501.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.3	1.1
10°-20°	1552.1	3.8
20°-30°	2834.1	7.0
30°-40°	4019.5	9.9
40°-50°	5427.5	13.4
50°-60°	7301.5	18.0
60°-70°	9267.3	22.9
70°-80°	8410.6	20.8
80°-90°	1226.0	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°	40501.0	100.0
0°-180°	40501.0	100.0

**Coefficient of Utilization**



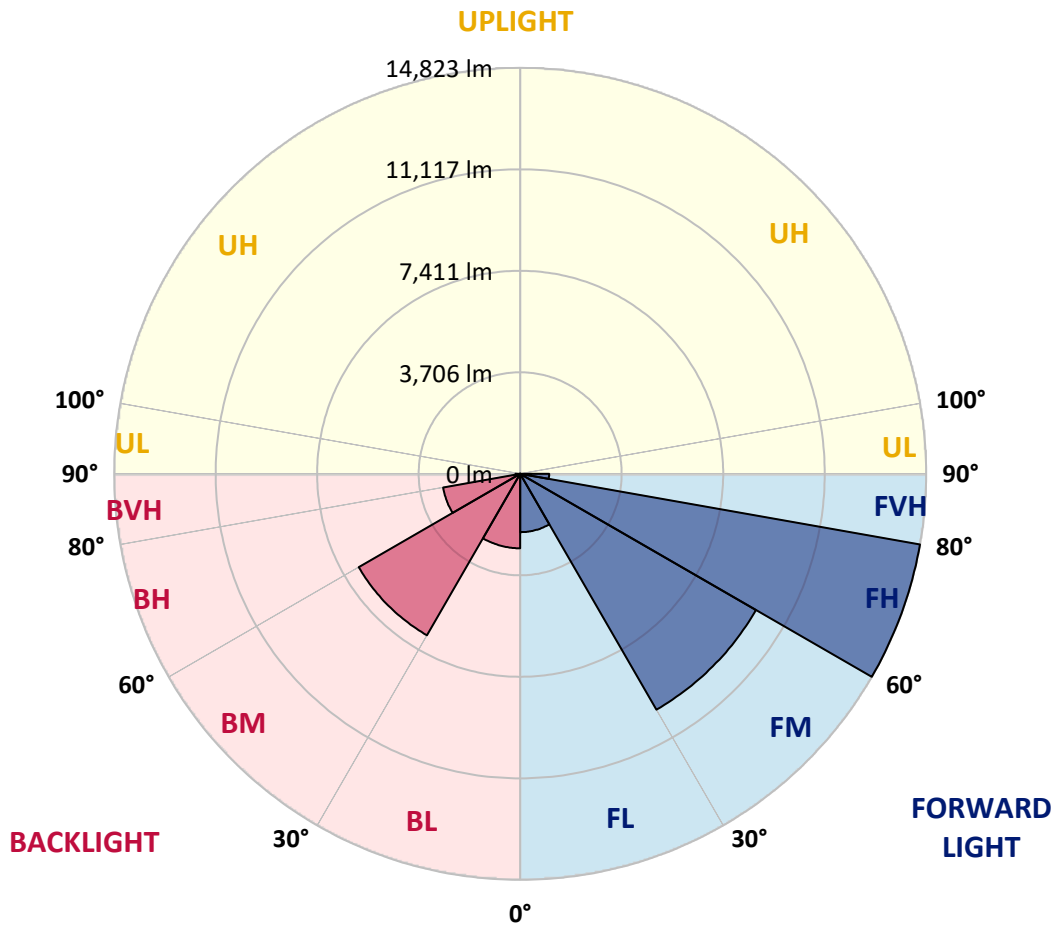
REPORT NUMBER: P944182  
 CATALOG NUMBER: GALN-SB9A-735-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.4	5.3			
FM (30°-60°)	9942.1	24.5			
FH (60°-80°)	14822.7	36.6			G5
FVH (80°-90°)	1057.2	2.6			G5
BL (0°-30°)	2718.1	6.7	B4/5000		
BM (30°-60°)	6806.5	16.8	B4/8500		
BH (60°-80°)	2855.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	168.8	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: P944182

CATALOG NUMBER: GALN-SB9A-735-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3
2.5°	4560.5	4586.2	4579.8	4571.2	4571.2	4573.3	4571.2	4586.2	4601.3	4616.3
5°	4607.7	4633.5	4620.6	4609.9	4601.3	4599.1	4592.7	4590.5	4599.1	4618.5
7.5°	4700.1	4725.9	4706.5	4687.2	4670.0	4661.4	4652.8	4639.9	4633.5	4644.2
10°	4803.2	4829.0	4805.3	4771.0	4743.0	4732.3	4723.7	4710.8	4702.2	4708.7
12.5°	4906.3	4932.1	4899.9	4852.6	4816.1	4809.6	4798.9	4794.6	4792.5	4790.3
15°	5003.0	5024.4	4983.6	4927.8	4889.1	4878.4	4867.6	4874.1	4884.8	4897.7
17.5°	5078.2	5099.6	5039.5	4966.4	4929.9	4925.6	4919.2	4940.7	4970.7	5003.0
20°	5146.9	5168.4	5091.0	4992.2	4949.3	4949.3	4951.4	4996.5	5039.5	5086.7
22.5°	5243.6	5260.7	5166.2	5030.9	4968.6	4972.9	4990.1	5035.2	5088.9	5153.3
25°	5387.5	5400.4	5284.4	5103.9	5033.0	5045.9	5061.0	5082.4	5134.0	5209.2
27.5°	5619.5	5630.2	5477.7	5232.8	5125.4	5146.9	5168.4	5153.3	5177.0	5241.4
30°	5946.0	5952.4	5759.1	5434.7	5282.2	5293.0	5297.3	5235.0	5189.9	5241.4
32.5°	6332.7	6330.5	6100.7	5679.6	5460.5	5449.8	5413.3	5290.8	5185.6	5230.7
35°	6932.0	6908.3	6611.9	6023.3	5662.4	5595.8	5509.9	5353.1	5207.0	5219.9
37.5°	7924.4	7851.4	7441.1	6586.1	5963.2	5793.5	5666.7	5454.1	5254.3	5215.6
40°	9043.6	8951.2	8500.1	7357.3	6414.3	6141.5	5937.4	5598.0	5331.6	5235.0
42.5°	10371.1	10240.1	9754.6	8266.0	6985.7	6590.4	6283.2	5780.6	5445.5	5297.3
45°	12001.5	11827.5	11140.1	9290.6	7705.3	7179.0	6768.7	6057.7	5619.5	5417.6
47.5°	13649.1	13692.1	12714.7	10463.5	8568.8	7905.1	7376.6	6474.4	5873.0	5610.9
50°	15399.9	15429.9	14280.7	11763.1	9548.4	8725.7	8059.7	6940.6	6225.2	5885.8
52.5°	16766.1	16770.4	15702.7	13122.9	10568.7	9627.9	8796.5	7473.3	6633.4	6251.0
55°	17621.0	17610.3	16699.5	14409.6	11741.6	10575.2	9612.8	8079.1	7131.8	6680.6
57.5°	18241.8	18209.6	17386.9	15515.9	12991.8	11694.4	10536.5	8766.5	7720.3	7191.9
60°	18478.1	18458.8	17853.0	16471.8	14306.5	12931.7	11602.0	9535.5	8388.4	7795.5
62.5°	18568.3	18604.9	18310.6	17397.6	15713.5	14302.2	12772.7	10454.9	9140.2	8478.6
65°	18886.3	18952.8	18892.7	18609.1	17303.1	15906.8	14325.8	11548.3	9960.8	9211.1
67.5°	19515.7	19582.2	19608.0	20059.1	19245.0	17906.7	16263.4	12910.2	10921.0	9971.6
70°	19500.6	19481.3	19936.7	21212.7	21676.7	20675.6	18875.5	14585.7	12066.0	10603.1
72.5°	17749.9	17595.2	18671.4	21199.8	23700.2	23567.0	22065.5	16746.7	13054.1	10680.4
75°	13316.2	12903.7	14804.8	19105.4	24037.4	25208.2	24093.3	18087.2	12820.0	9436.7
77.5°	5694.7	5280.1	7520.6	14143.2	21513.4	23564.9	22233.0	15780.1	10233.6	6240.3
80°	1490.8	1488.6	2272.7	6412.1	14630.8	17401.9	15266.7	10190.7	5847.2	2229.7
82.5°	616.5	601.5	835.6	2494.0	7148.9	9765.3	7969.5	4545.4	2111.6	603.6
85°	229.8	227.7	406.0	861.4	2521.9	4027.7	2915.0	1162.1	526.3	294.3
87.5°	64.4	62.3	88.1	298.6	614.4	932.3	498.4	191.2	148.2	116.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944182  
 CATALOG NUMBER: GALN-SB9A-735-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4631.3	0°	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3	4631.3
4639.9	2.5°	4646.4	4657.1	4676.5	4691.5	4710.8	4732.3	4762.4	4781.7	4801.0	4813.9
4650.7	5°	4665.7	4689.3	4738.7	4788.2	4846.2	4899.9	4962.2	5007.3	5043.8	5054.5
4689.3	7.5°	4708.7	4747.3	4831.1	4914.9	5007.3	5095.3	5185.6	5262.9	5325.2	5348.8
4758.1	10°	4783.9	4835.4	4953.6	5071.7	5194.2	5329.5	5445.5	5557.2	5645.3	5681.8
4839.7	12.5°	4878.4	4942.8	5097.5	5260.7	5430.4	5617.3	5767.7	5905.2	6014.7	6064.1
4953.6	15°	5000.8	5084.6	5282.2	5501.3	5750.5	6010.4	6201.6	6354.1	6476.6	6536.7
5071.7	17.5°	5134.0	5245.7	5494.9	5825.7	6182.3	6523.8	6747.2	6858.9	6985.7	7043.7
5181.3	20°	5262.9	5400.4	5757.0	6238.1	6712.9	7075.9	7256.3	7286.4	7295.0	7301.5
5284.4	22.5°	5396.1	5580.8	6085.6	6758.0	7267.1	7518.4	7544.2	7415.3	7234.9	7151.1
5385.3	25°	5542.1	5787.0	6515.2	7331.5	7744.0	7774.0	7576.4	7262.8	6921.2	6764.4
5467.0	27.5°	5683.9	6025.5	7030.8	7879.3	8087.7	7823.4	7398.1	6953.5	6541.0	6375.6
5525.0	30°	5825.7	6298.3	7600.0	8358.3	8244.5	7701.0	7116.7	6620.5	6205.9	6031.9
5576.5	32.5°	5969.6	6616.2	8255.2	8704.2	8216.6	7441.1	6766.6	6246.7	5881.5	5699.0
5621.6	35°	6132.9	7007.2	8876.0	8893.2	8029.7	7058.7	6304.7	5799.9	5482.0	5335.9
5675.3	37.5°	6345.5	7503.4	9423.8	8940.5	7703.2	6498.1	5731.2	5271.5	5009.4	4942.8
5754.8	40°	6609.8	8100.6	9842.7	8865.3	7219.8	5817.1	5103.9	4736.6	4588.4	4603.4
5862.2	42.5°	6953.5	8768.6	10137.0	8672.0	6547.5	5114.7	4554.0	4390.8	4461.6	4521.8
6023.3	45°	7400.3	9462.5	10319.6	8343.3	5787.0	4519.6	4229.6	4268.3	4322.0	4328.5
6283.2	47.5°	7971.7	10164.9	10439.9	7847.1	5011.6	4100.8	4023.4	4032.0	4021.3	3976.2
6672.1	50°	8684.8	10848.0	10547.3	7189.8	4352.1	3838.7	3735.6	3705.5	3557.3	3411.2
7189.8	52.5°	9496.8	11475.2	10592.4	6373.5	3838.7	3619.6	3452.0	3263.0	2985.9	2940.8
7840.6	55°	10399.0	12055.2	10476.4	5370.3	3406.9	3338.2	3084.7	2857.0	2826.9	2788.3
8697.7	57.5°	11477.4	12680.3	10240.1	4251.1	2964.4	3009.5	2762.5	2788.3	2734.6	2674.4
9799.7	60°	12656.7	13326.9	9825.5	3230.8	2506.9	2599.2	2678.7	2676.6	2661.5	2612.1
10961.8	62.5°	13717.9	13752.3	9009.2	2474.6	2105.2	2281.3	2498.3	2496.1	2483.2	2455.3
12175.5	65°	14349.4	13687.8	7647.3	1948.3	1774.3	2019.2	2253.4	2270.6	2272.7	2270.6
13088.5	67.5°	14237.7	12933.8	5778.4	1550.9	1501.5	1752.9	2010.6	2034.3	2051.5	2055.7
13204.5	70°	12974.6	11277.6	3767.8	1237.3	1258.8	1518.7	1780.8	1804.4	1819.5	1836.6
11458.1	72.5°	10113.3	8291.7	2156.7	1001.0	1046.1	1316.8	1553.1	1581.0	1589.6	1621.8
7973.8	75°	6163.0	4876.2	1164.3	788.4	859.2	1125.6	1327.5	1359.8	1374.8	1413.5
3916.0	77.5°	2930.0	2111.6	663.8	614.4	691.7	919.4	1121.3	1157.8	1117.0	1138.5
1080.5	80°	990.3	784.1	418.9	468.3	528.4	717.5	897.9	934.4	848.5	844.2
358.7	82.5°	345.8	317.9	266.4	311.5	341.6	513.4	678.8	726.1	631.5	629.4
161.1	85°	135.3	128.9	148.2	169.7	204.1	315.8	446.8	470.4	388.8	313.6
47.3	87.5°	27.9	30.1	36.5	38.7	62.3	109.6	161.1	197.6	156.8	133.2
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>
4631.3
4805.3
5058.8
5351.0
5683.9
6064.1
6532.4
7041.5
7318.6
7174.7
6788.1
6394.9
6051.2
5722.6
5368.1
4990.1
4655.0
4577.6
4371.4
4010.5
3430.5
2955.8
2794.7
2663.7
2594.9
2444.6
2270.6
2060.0
1845.2
1634.7
<i>1417.8</i>
1121.3
835.6
599.3
309.3
122.4
0.0

F REPORT)