

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: P942995

Luminaire Tested: **GALN-SB7B-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39680 lumens  
Efficiency: N/A  
Efficacy: 154.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

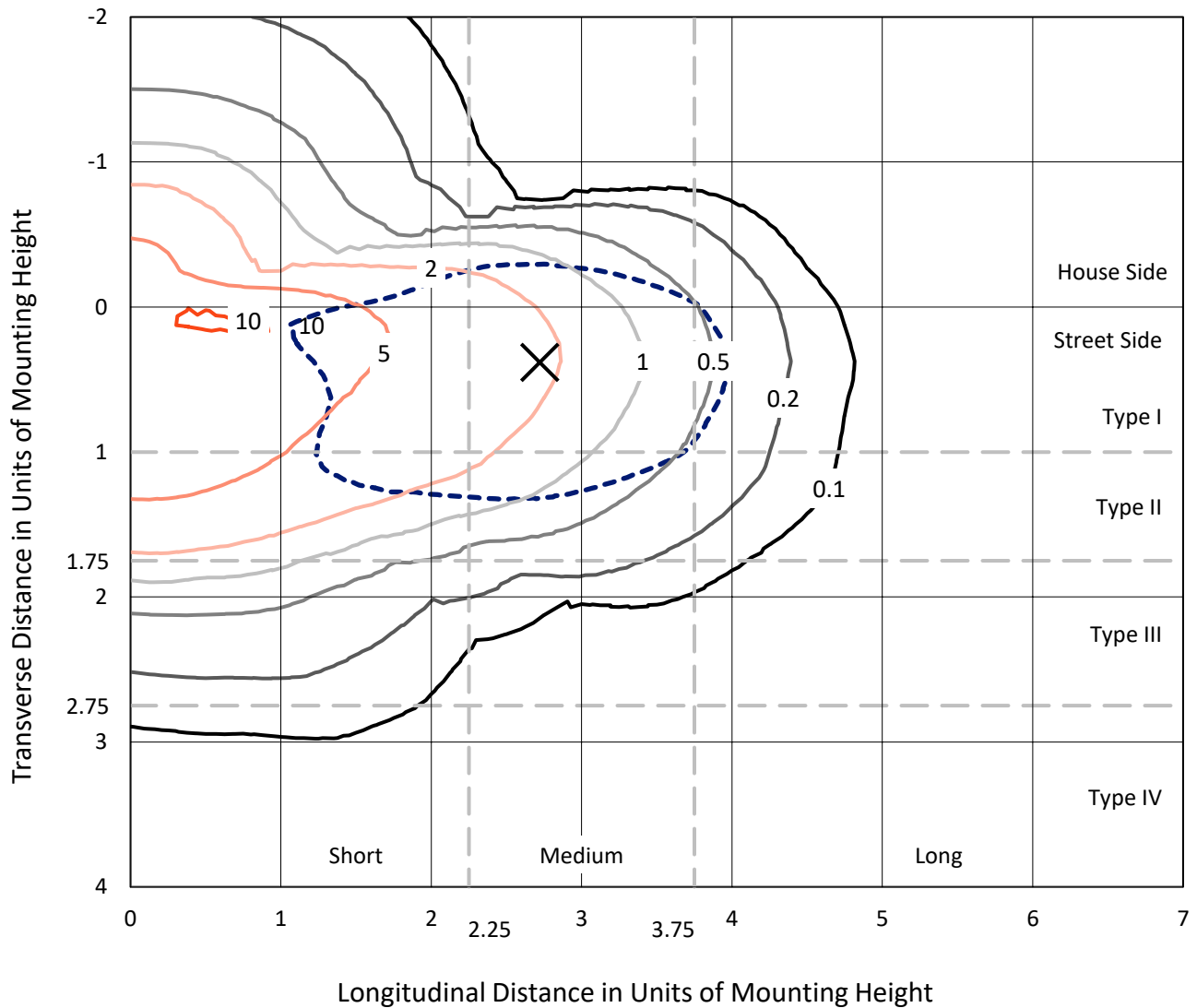
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P942995  
 CATALOG NUMBER: GALN-SB7B-735-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

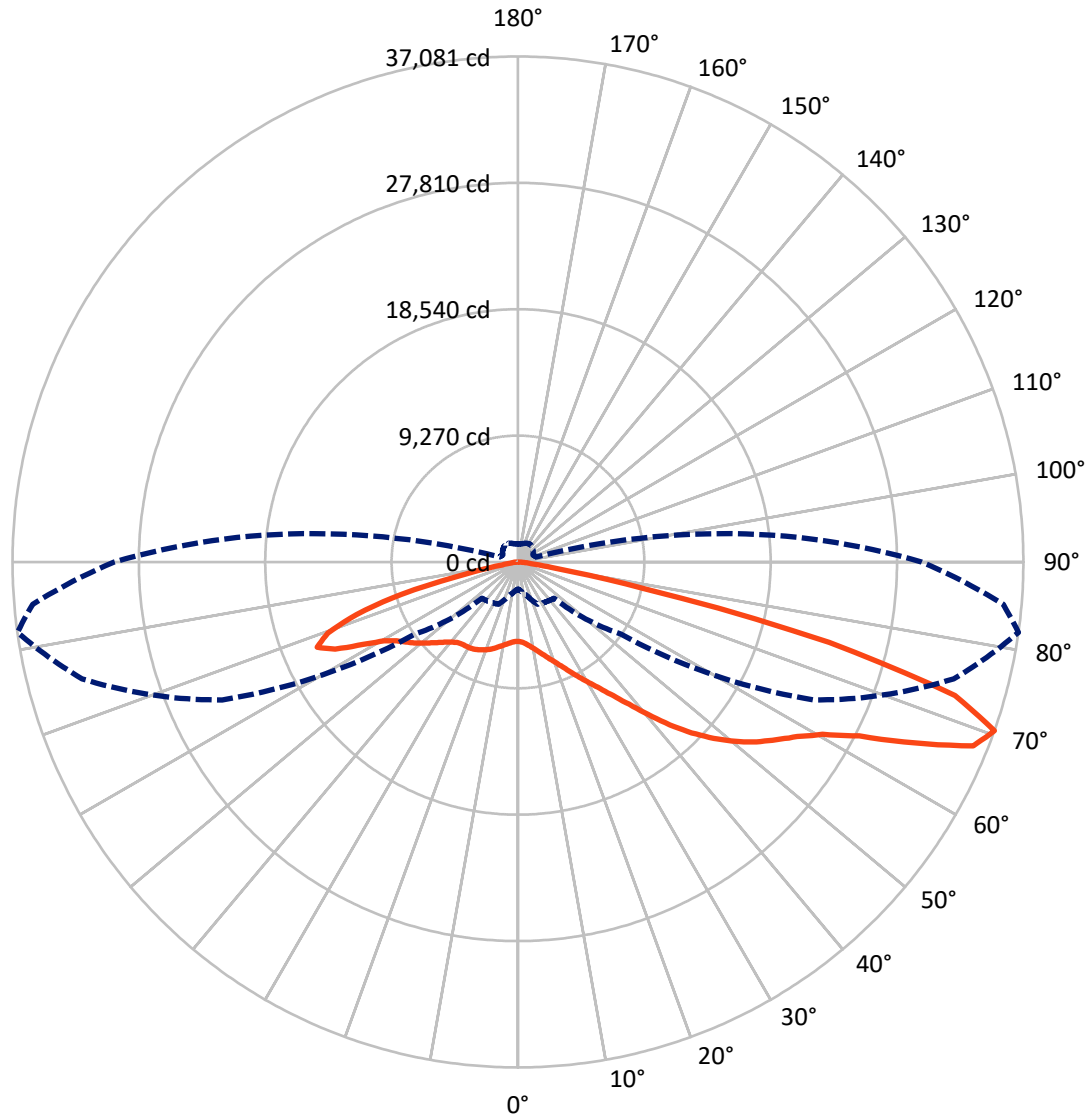
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P942995  
CATALOG NUMBER: GALN-SB7B-735-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P942995  
 CATALOG NUMBER: GALN-SB7B-735-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9782.1	0.0	9782.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	29897.9	0.0	29897.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	39680.0	0.0	39680.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.3	1.4
10°-20°	1578.1	4.0
20°-30°	2640.0	6.7
30°-40°	4124.4	10.4
40°-50°	6568.6	16.6
50°-60°	9141.0	23.0
60°-70°	9561.9	24.1
70°-80°	4997.6	12.6
80°-90°	518.9	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°	39680.0	100.0
0°-180°	39680.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942995

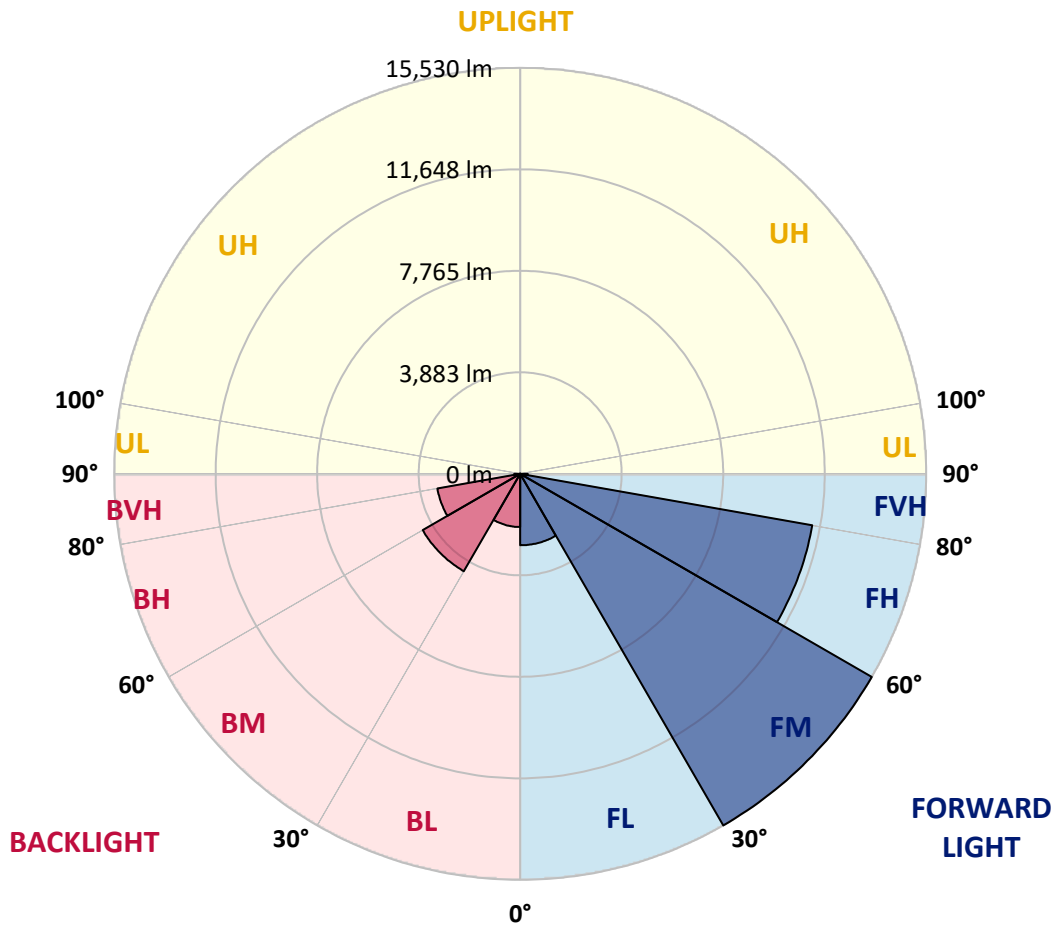
CATALOG NUMBER: GALN-SB7B-735-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.4	6.9			
FM (30°-60°)	15530.3	39.1			
FH (60°-80°)	11344.6	28.6			G4/12000
FVH (80°-90°)	290.5	0.7			G3/500
BL (0°-30°)	2035.0	5.1	B3/2500		
BM (30°-60°)	4303.7	10.8	B3/5000		
BH (60°-80°)	3214.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	228.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



REPORT NUMBER: P942995

CATALOG NUMBER: GALN-SB7B-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6
2.5°	5956.5	5990.2	5979.7	5969.2	5969.2	5954.4	5952.3	5931.3	5914.4	5887.1
5°	6032.3	6068.1	6063.9	6072.4	6099.7	6106.0	6112.4	6099.7	6066.0	6032.3
7.5°	5965.0	6005.0	6017.6	6068.1	6152.4	6228.2	6285.0	6308.2	6276.6	6228.2
10°	5737.6	5781.8	5826.0	5946.0	6095.5	6274.5	6426.1	6516.6	6510.3	6464.0
12.5°	5276.5	5322.8	5417.5	5651.2	5925.0	6240.8	6522.9	6712.4	6777.7	6744.0
15°	4908.0	4948.0	5019.6	5259.6	5615.5	6095.5	6558.7	6927.2	7093.5	7074.6
17.5°	4897.5	4914.3	4958.5	5072.2	5345.9	5868.1	6520.8	7137.8	7455.7	7453.6
20°	5082.8	5089.1	5114.3	5137.5	5293.3	5695.5	6424.0	7312.5	7862.1	7862.1
22.5°	5339.6	5335.4	5360.7	5339.6	5415.4	5680.7	6362.9	7466.2	8314.7	8348.4
25°	5724.9	5703.9	5697.6	5649.1	5663.9	5817.6	6430.3	7641.0	8851.7	8921.1
27.5°	6238.7	6205.0	6181.8	6070.2	6032.3	6099.7	6636.6	7851.5	9449.6	9569.6
30°	6908.2	6847.2	6813.5	6619.8	6482.9	6493.5	6948.3	8131.6	10075.0	10268.7
32.5°	7822.1	7727.3	7636.8	7318.8	7068.3	6986.2	7350.4	8519.0	10753.0	11062.5
35°	8845.3	8769.5	8672.7	8182.1	7796.8	7607.3	7893.6	9060.1	11546.7	12037.3
37.5°	9830.7	9765.5	9811.8	9150.6	8653.7	8377.9	8605.3	9786.5	12525.8	13250.1
40°	10849.8	10799.3	10805.6	10173.9	9594.9	9285.4	9468.6	10698.2	13648.1	14692.4
42.5°	11957.3	11919.4	11793.1	11233.0	10582.4	10293.9	10462.4	11751.0	14852.4	16334.7
45°	13197.5	13174.3	13056.4	12414.2	11668.9	11344.6	11572.0	12913.2	16063.1	17880.2
47.5°	14269.2	14288.1	14273.4	13732.3	12959.5	12483.7	12755.3	14126.0	17189.6	19333.0
50°	14785.0	14884.0	15029.3	14860.8	14380.8	13896.5	13949.1	15296.7	18263.4	20695.3
52.5°	14515.5	14702.9	15098.8	15368.3	15553.6	15452.5	15311.4	16458.9	19274.0	21924.9
55°	13511.2	13774.4	14431.3	15081.9	16027.3	16762.1	16947.4	17747.5	20259.4	23007.1
57.5°	11681.5	12108.9	12698.5	14014.4	15606.2	17395.9	18855.0	19535.1	21303.8	24163.1
60°	8544.2	9117.0	9849.7	11807.8	14132.3	17056.9	20478.4	22280.7	22788.2	25660.1
62.5°	5468.1	5821.8	6495.6	8340.0	11011.9	15319.8	20975.3	25712.8	25304.3	28115.2
65°	3743.6	3971.0	4588.0	5623.9	7118.8	11403.6	19644.6	28285.7	29300.6	32006.2
67.5°	2720.3	2893.0	3419.4	4326.9	4638.5	6748.2	15244.0	28167.8	33185.3	36015.1
70°	1983.4	2105.5	2547.7	3419.4	3568.9	3754.2	9234.9	23944.1	33101.1	37080.5
72.5°	1469.7	1553.9	1850.8	2653.0	2888.8	2535.1	4571.1	17402.2	28443.6	33539.0
75°	1063.3	1126.5	1345.4	2029.7	2311.9	1930.8	2280.3	10169.7	19840.4	23592.5
77.5°	812.7	861.2	1004.3	1486.5	1850.8	1448.6	1414.9	4678.5	9407.5	9453.8
80°	652.7	684.3	762.2	1046.4	1419.1	1084.3	922.2	1888.7	2973.0	2516.1
82.5°	480.1	532.7	644.3	734.8	1014.9	747.5	562.2	953.8	1130.7	972.8
85°	273.7	309.5	389.5	526.4	648.5	456.9	322.1	423.2	526.4	431.6
87.5°	96.9	126.3	136.9	206.3	282.1	189.5	124.2	122.1	172.7	128.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942995  
 CATALOG NUMBER: GALN-SB7B-735-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5817.6	0°	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6	5817.6
5880.8	2.5°	5859.7	5849.2	5807.1	5750.2	5691.3	5634.4	5615.5	5575.4	5548.1	5533.3
6017.6	5°	5977.6	5943.9	5845.0	5718.6	5586.0	5442.8	5341.7	5249.1	5181.7	5118.5
6205.0	7.5°	6146.0	6087.1	5916.5	5695.5	5459.6	5221.7	5044.9	4910.1	4819.6	4760.6
6424.0	10°	6341.9	6251.3	5990.2	5659.7	5295.4	4954.3	4745.9	4630.1	4573.2	4541.6
6674.5	12.5°	6567.2	6438.7	6066.0	5577.6	5044.9	4655.3	4512.2	4478.5	4480.6	4482.7
6990.4	15°	6845.1	6666.1	6127.1	5398.6	4718.5	4425.8	4400.6	4455.3	4512.2	4539.5
7348.3	17.5°	7158.8	6906.1	6137.6	5103.8	4398.5	4278.4	4358.5	4476.4	4562.7	4600.6
7748.4	20°	7495.7	7150.4	6061.8	4686.9	4135.3	4158.4	4301.6	4453.2	4547.9	4596.4
8205.3	22.5°	7881.0	7411.5	5880.8	4249.0	3920.5	4027.9	4196.3	4343.7	4442.7	4491.1
8742.2	25°	8321.1	7704.1	5596.5	3880.5	3735.2	3880.5	4048.9	4171.1	4251.1	4295.3
9342.2	27.5°	8809.5	8009.4	5217.5	3587.8	3573.1	3728.9	3867.9	3962.6	4004.7	4038.4
9980.2	30°	9300.1	8287.4	4758.5	3366.7	3432.0	3579.4	3678.4	3720.5	3733.1	3739.4
10691.9	32.5°	9830.7	8527.4	4276.3	3183.6	3297.3	3434.1	3493.1	3512.0	3453.1	3413.1
11555.2	35°	10472.9	8784.3	3804.7	3038.3	3164.6	3282.5	3301.5	3284.6	3215.1	3133.0
12637.4	37.5°	11266.7	9104.3	3427.8	2935.1	3040.4	3118.3	3095.1	3090.9	3097.2	3000.4
13938.6	40°	12239.5	9521.2	3152.0	2855.1	2939.3	2956.2	2890.9	2926.7	2958.3	2810.9
15366.2	42.5°	13319.6	10024.4	2977.2	2800.4	2855.1	2815.1	2714.0	2754.0	2749.8	2556.1
16800.0	45°	14420.8	10571.9	2916.2	2760.4	2777.2	2697.2	2585.6	2596.1	2507.7	2332.9
18174.9	47.5°	15515.7	11159.3	2954.1	2726.7	2680.3	2589.8	2503.5	2457.2	2326.6	2196.1
19493.0	50°	16589.5	11776.2	3093.0	2659.3	2547.7	2495.1	2431.9	2349.8	2210.8	2099.2
20739.5	52.5°	17585.4	12397.4	3248.8	2547.7	2381.4	2412.9	2372.9	2278.2	2141.3	2027.6
21918.6	55°	18528.7	13018.5	3309.9	2394.0	2225.5	2341.4	2318.2	2143.4	1979.2	1886.6
23152.4	57.5°	19556.2	13766.0	3242.5	2198.2	2099.2	2259.2	2170.8	1977.1	1882.3	1812.9
24758.9	60°	20979.5	14938.7	3097.2	1956.0	1979.2	2137.1	1985.5	1905.5	1802.3	1724.4
27167.7	62.5°	23344.0	17126.4	2863.5	1716.0	1838.1	1956.0	1897.1	1817.1	1711.8	1636.0
31286.1	65°	26839.2	20166.8	2423.5	1528.6	1680.2	1779.2	1802.3	1722.3	1612.8	1532.8
34895.0	67.5°	29787.0	22074.4	1833.9	1372.8	1518.1	1636.0	1701.3	1623.4	1507.6	1429.7
35739.3	70°	29624.8	20689.0	1400.2	1219.1	1374.9	1494.9	1579.1	1518.1	1393.9	1320.2
32463.1	72.5°	26312.8	17307.5	1132.8	1063.3	1229.6	1347.5	1448.6	1402.3	1276.0	1204.4
23782.0	75°	19330.9	12285.8	905.4	905.4	1048.6	1193.8	1305.4	1276.0	1160.1	1109.6
9984.4	77.5°	8148.4	5154.3	709.6	751.7	871.7	1025.4	1164.4	1174.9	1073.8	1137.0
2640.3	80°	2166.6	1421.2	541.1	591.7	684.3	846.4	1012.8	1008.5	899.1	840.1
981.2	82.5°	825.4	560.1	385.3	416.9	494.8	648.5	802.2	827.5	718.0	621.1
385.3	85°	317.9	240.0	237.9	250.6	288.5	429.5	606.4	627.4	541.1	459.0
107.4	87.5°	82.1	71.6	88.4	84.2	132.6	229.5	347.4	360.0	330.6	191.6
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>
5817.6
5550.2
5143.8
4773.2
4550.1
4486.9
4537.4
4609.0
4609.0
4503.7
4307.9
4051.0
3754.2
3425.7
3137.2
3006.7
2815.1
2554.0
2339.2
2196.1
2090.8
2029.7
1878.1
1806.5
1720.2
1636.0
1537.0
1431.8
1326.5
1204.4
1094.9
1031.7
781.2
621.1
473.7
273.7
0.0

F REPORT)