

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: P956062

Luminaire Tested: **GALN-SB8D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73455 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

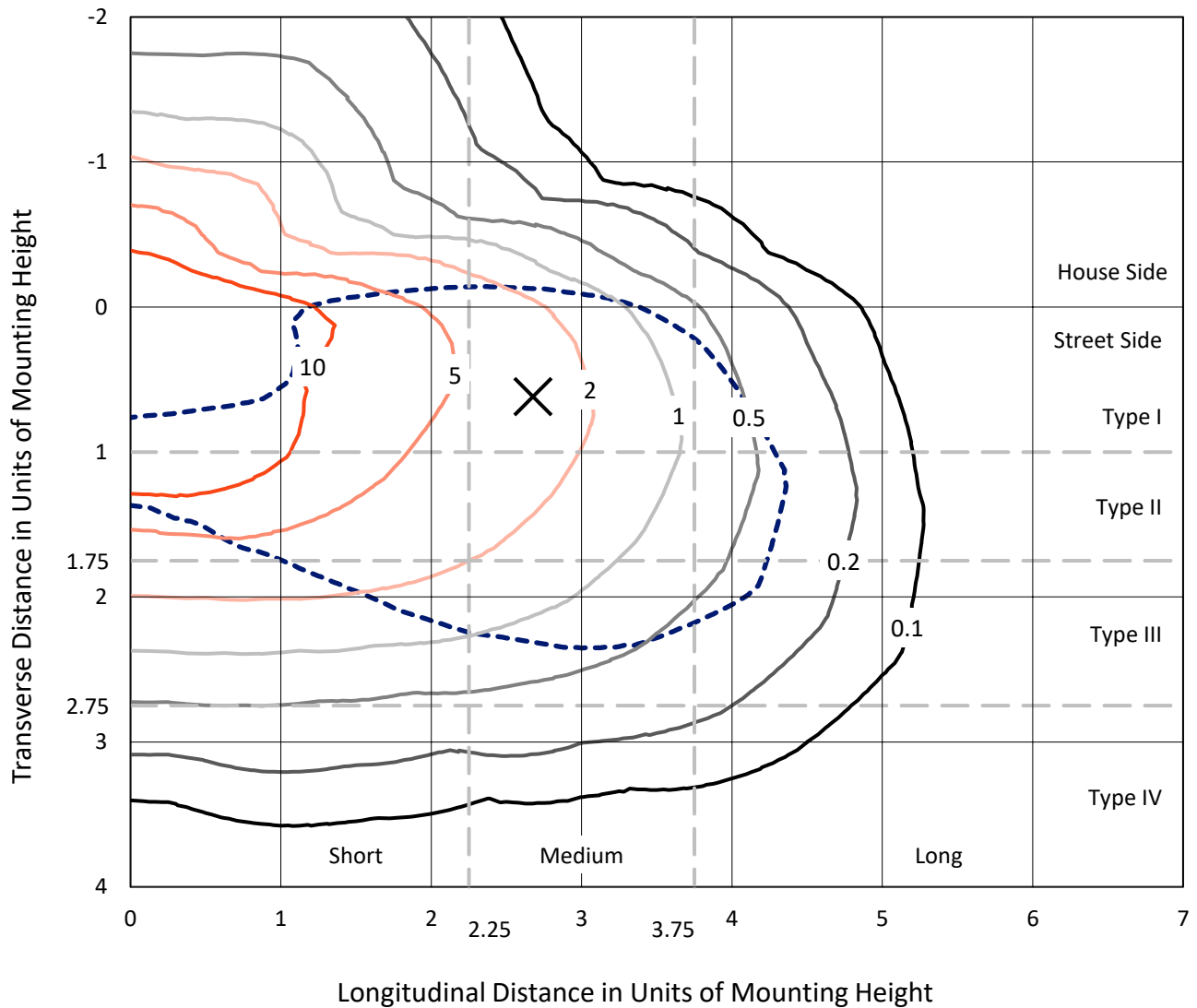
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956062
 CATALOG NUMBER: GALN-SB8D-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

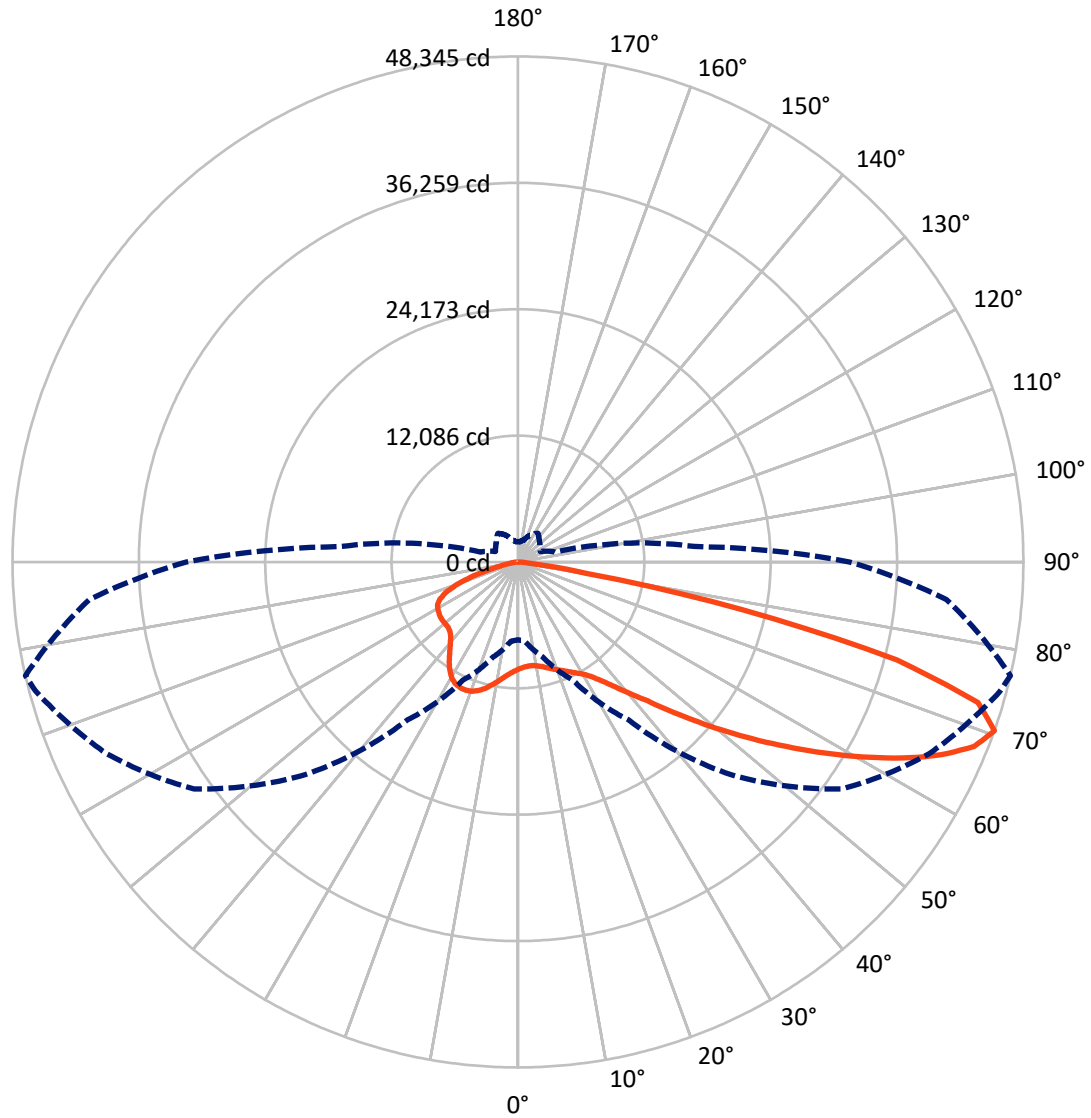
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P956062
CATALOG NUMBER: GALN-SB8D-827-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P956062
 CATALOG NUMBER: GALN-SB8D-827-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16085.5	0.0	16085.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	57369.5	0.0	57369.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	73455.0	0.0	73455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.3	1.3
10°-20°	2820.7	3.8
20°-30°	4823.8	6.6
30°-40°	7757.2	10.6
40°-50°	12111.1	16.5
50°-60°	16177.5	22.0
60°-70°	17242.7	23.5
70°-80°	10614.5	14.5
80°-90°	930.1	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°	73455.0	100.0
0°-180°	73455.0	100.0

Coefficient of Utilization



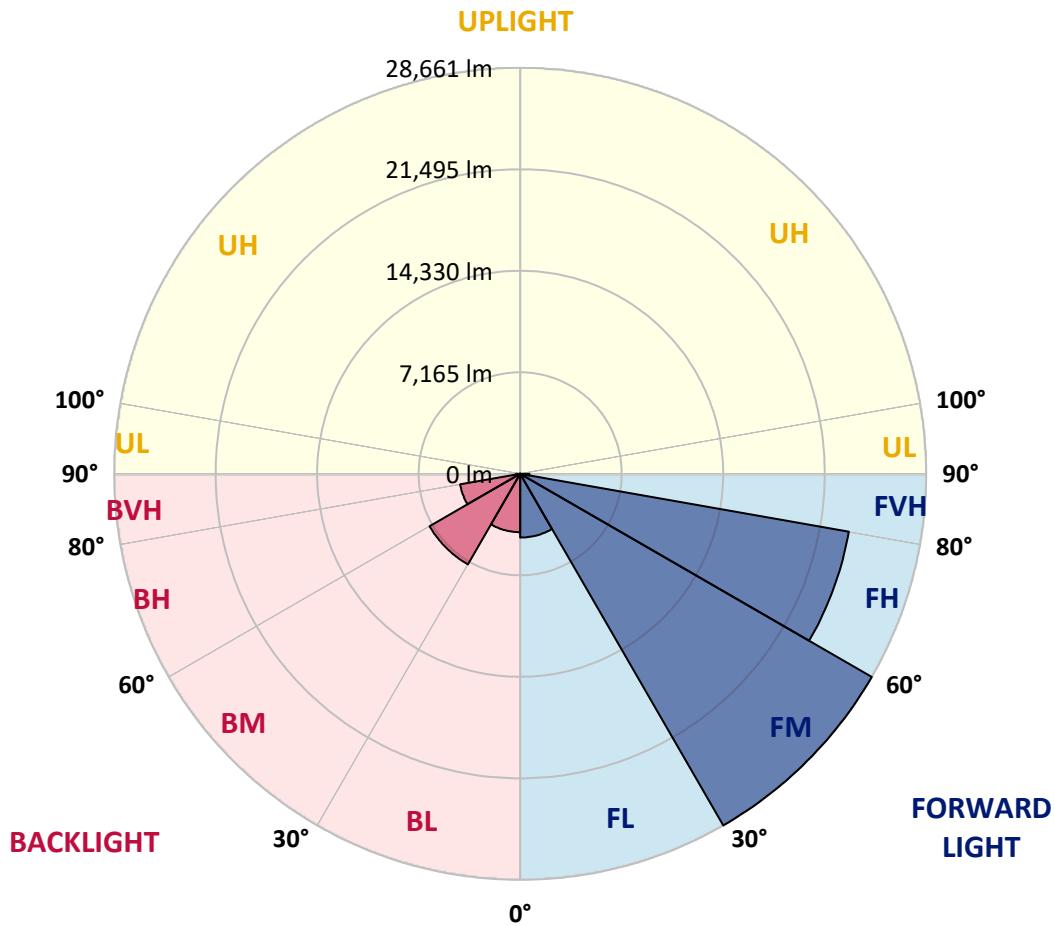
REPORT NUMBER: P956062
 CATALOG NUMBER: GALN-SB8D-827-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4500.3	6.1			
FM (30°-60°)	28660.6	39.0			
FH (60°-80°)	23558.2	32.1			G5
FVH (80°-90°)	650.4	0.9			G4/750
BL (0°-30°)	4121.6	5.6	B4/5000		
BM (30°-60°)	7385.2	10.1	B4/8500		
BH (60°-80°)	4299.0	5.9	B4/5000		G4/5000
BVH (80°-90°)	279.7	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



REPORT NUMBER: P956062
 CATALOG NUMBER: GALN-SB8D-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6
2.5°	9446.3	9442.6	9491.5	9506.5	9596.8	9660.8	9781.2	9909.1	10074.6	10093.4
5°	8900.9	8900.9	8957.3	9017.5	9134.1	9262.0	9446.3	9668.3	9954.2	9999.4
7.5°	8438.1	8468.2	8517.1	8633.8	8769.2	8953.5	9235.7	9551.7	9927.9	9999.4
10°	8065.7	8099.6	8159.7	8253.8	8456.9	8712.8	9081.4	9487.7	9991.8	10104.7
12.5°	7949.1	7982.9	8016.8	8088.3	8276.4	8577.3	9017.5	9517.8	10146.1	10258.9
15°	8219.9	8261.3	8235.0	8216.2	8314.0	8588.6	9047.6	9626.9	10337.9	10499.7
17.5°	8844.4	8859.5	8799.3	8622.5	8607.4	8754.1	9190.5	9777.4	10578.7	10755.5
20°	9852.6	9826.3	9702.2	9352.3	9152.9	9122.8	9435.1	10003.1	10827.0	11015.1
22.5°	11222.0	11191.9	10943.6	10390.6	9946.7	9653.2	9788.7	10296.5	11105.4	11316.0
25°	12929.9	12888.6	12523.6	11771.2	11082.8	10356.7	10270.2	10684.0	11447.7	11643.3
27.5°	14923.8	14889.9	14494.9	13501.8	12508.6	11319.8	10868.4	11139.2	11805.1	12027.1
30°	17068.1	17165.9	16466.2	15397.8	14141.3	12576.3	11673.4	11699.8	12267.8	12467.2
32.5°	19588.6	19757.9	18915.3	17560.9	15845.5	13941.9	12689.2	12482.3	12941.2	13106.7
35°	22086.6	22278.5	21578.7	20081.5	18106.4	15552.0	13750.0	13381.4	13836.6	14017.1
37.5°	24246.0	24501.8	24140.6	22839.0	20525.4	17493.2	15134.5	14438.5	14938.8	15164.6
40°	25950.2	26341.4	26315.1	25502.5	23377.0	19848.2	16891.3	15743.9	16308.2	16552.7
42.5°	27334.6	27673.1	27966.6	27925.2	26352.7	22523.0	18956.6	17440.6	17869.4	18151.6
45°	28290.1	28651.3	29283.3	29964.2	29215.6	25385.9	21322.9	19453.2	19844.5	20269.6
47.5°	29144.1	29554.1	30374.3	31453.9	31645.8	28260.0	23914.9	21796.9	22154.3	22594.5
50°	29219.3	29573.0	30844.5	32375.6	33372.6	31021.3	26698.8	24426.6	24761.4	25231.6
52.5°	27402.3	27959.1	30178.6	32349.3	34166.3	33331.2	29463.9	27161.5	27537.7	28102.0
55°	21270.3	22086.6	28226.2	31341.1	33884.2	34824.7	32093.5	30069.5	30551.1	31141.7
57.5°	18320.9	18678.2	22406.4	29505.2	32597.6	35212.2	34313.0	33007.6	33782.6	34429.7
60°	16466.2	16763.4	18967.9	26649.9	30904.7	34599.0	36028.5	35746.4	37085.6	37856.8
62.5°	14479.9	14762.0	16767.2	22252.1	28737.8	33579.5	37112.0	38274.4	40471.4	41314.1
65°	12508.6	12749.4	14671.7	18697.1	25984.0	32560.0	37672.5	40460.1	43605.1	44477.9
67.5°	10311.6	10511.0	12328.0	15774.0	22635.9	31164.3	37950.9	42179.4	46332.6	47081.2
70°	7441.2	7595.4	9472.7	12474.7	18433.7	28764.1	37838.0	43398.2	47747.1	48345.2
72.5°	3517.5	3656.6	5861.2	8099.6	13020.2	24091.7	35554.5	42431.4	46310.0	46012.8
75°	1877.2	1997.6	3367.0	4442.9	6876.9	16515.1	29095.2	36551.4	38887.6	37443.0
77.5°	1271.6	1365.6	2084.1	2667.2	3141.3	7840.0	18700.8	25306.9	24347.6	21962.5
80°	1008.2	1106.0	1707.9	1805.8	1519.8	2832.8	7727.1	11714.8	8415.6	6730.2
82.5°	775.0	884.1	1437.1	1309.2	827.6	1162.5	2249.7	3705.6	2155.6	1640.2
85°	474.0	590.6	1128.6	835.2	466.5	530.4	763.7	1030.8	658.3	549.2
87.5°	240.8	338.6	571.8	304.7	210.7	124.1	203.1	203.1	173.1	150.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956062
 CATALOG NUMBER: GALN-SB8D-827-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10247.6	0°	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6	10247.6
10195.0	2.5°	10285.3	10360.5	10488.4	10608.8	10702.8	10793.1	10883.4	10932.3	10947.4	11007.6
10251.4	5°	10405.6	10544.8	10793.1	11026.4	11173.1	11263.4	11327.3	11365.0	11372.5	11391.3
10405.6	7.5°	10627.6	10849.6	11195.7	11428.9	11538.0	11530.5	11504.1	11410.1	11372.5	11338.6
10631.4	10°	10939.8	11233.3	11658.4	11820.2	11752.4	11571.9	11338.6	11064.0	10936.1	10811.9
10939.8	12.5°	11327.3	11699.8	12117.3	12109.8	11775.0	11312.3	10770.6	10349.2	10082.1	9890.3
11319.8	15°	11797.6	12226.4	12546.2	12290.4	11556.8	10725.4	9931.6	9382.4	9141.6	8930.9
11703.5	17.5°	12282.9	12741.8	12888.6	12234.0	11007.6	9856.4	8957.3	8524.7	8287.6	8174.8
12117.3	20°	12756.9	13212.1	13091.7	11910.4	10172.4	8870.8	8069.5	7832.4	7783.5	7809.9
12519.9	22.5°	13257.2	13663.5	13133.1	11286.0	9107.8	7862.5	7422.4	7429.9	7539.0	7618.0
12941.2	25°	13768.9	14043.5	13024.0	10383.1	7964.1	7121.4	7012.3	7132.7	7347.2	7501.4
13415.2	27.5°	14261.7	14382.1	12787.0	9265.8	6982.2	6591.0	6609.8	6858.1	7181.6	7396.1
13990.8	30°	14818.5	14683.0	12331.8	8009.3	6301.3	6135.8	6293.8	6583.5	6907.0	7098.9
14716.9	32.5°	15446.7	14942.6	11609.5	6846.8	5819.8	5770.9	6030.5	6218.6	6361.5	6417.9
15679.9	35°	16229.2	15307.5	10684.0	6030.5	5387.2	5503.8	5752.1	5658.0	5601.6	5571.5
16974.1	37.5°	17244.9	15800.3	9600.6	5500.0	5037.3	5311.9	5413.5	5120.1	4898.1	4789.0
18542.8	40°	18467.6	16522.6	8558.5	5090.0	4815.3	5146.4	4969.6	4616.0	4333.8	4179.6
20307.2	42.5°	19825.7	17278.8	7682.0	4781.5	4691.2	5011.0	4642.3	4220.9	3765.7	3716.8
22410.1	45°	21251.4	18057.5	7083.8	4544.5	4631.0	4894.3	4454.2	3773.3	3449.7	3649.1
24520.6	47.5°	22677.2	18772.3	6722.7	4367.7	4600.9	4762.7	4288.7	3525.0	3295.5	3585.2
26781.6	50°	24264.8	19411.8	6560.9	4239.8	4567.0	4710.0	4040.4	3461.0	3133.7	3325.6
29121.5	52.5°	25841.1	19908.4	6440.5	4111.8	4518.1	4668.6	3920.0	3385.8	2938.1	2949.4
31476.5	55°	27413.6	20231.9	6308.8	3942.6	4409.0	4578.3	3908.7	3303.0	2791.4	2738.7
33966.9	57.5°	29091.4	20416.3	6147.1	3754.5	4220.9	4348.9	3897.4	3239.1	2746.2	2659.7
36513.8	60°	30799.4	20687.1	5936.4	3525.0	3968.9	4074.2	3871.1	3216.5	2719.9	2573.2
38914.0	62.5°	32330.5	20781.2	5684.4	3306.8	3645.4	3803.4	3814.7	3197.7	2648.4	2396.4
40907.8	65°	33334.9	20374.9	5244.2	3058.5	3295.5	3525.0	3705.6	3133.7	2520.5	2268.5
41893.4	67.5°	33293.6	19216.2	4555.8	2738.7	2956.9	3216.5	3547.6	3024.6	2366.3	2110.5
41148.6	70°	31743.6	16928.9	3683.0	2366.3	2584.5	2885.4	3344.4	2862.9	2182.0	1937.4
36589.0	72.5°	27225.5	13249.7	2674.8	1929.9	2151.9	2543.1	3081.1	2667.2	1993.9	1783.2
27041.1	75°	19449.5	8385.5	1813.3	1482.2	1674.1	2155.6	2753.8	2437.8	1820.8	1790.7
13543.1	77.5°	9935.4	4006.5	1200.1	1083.5	1166.2	1700.4	2313.6	2178.2	1847.1	1478.5
3852.3	80°	3231.5	1478.5	756.2	737.3	775.0	1132.4	1790.7	1786.9	1399.5	1004.4
933.0	82.5°	1030.8	635.8	492.8	474.0	455.2	711.0	1249.0	1414.5	944.3	635.8
334.8	85°	410.1	380.0	289.7	267.1	191.9	334.8	654.6	940.5	703.5	459.0
86.5	87.5°	150.5	150.5	79.0	56.4	41.4	112.9	176.8	282.1	402.5	237.0
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°
10247.6
11041.4
11421.4
11346.1
10774.3
9845.1
8908.4
8208.6
7798.6
7636.8
7542.8
7448.7
7144.0
6448.0
5601.6
4815.3
4190.8
3765.7
3754.5
3720.6
3468.5
3028.4
2776.3
2671.0
2584.5
2396.4
2268.5
2121.8
1960.0
1771.9
1689.1
1316.7
887.8
632.0
470.2
233.2
0.0

F REPORT)