

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: P956691

Luminaire Tested: **GALN-SB9B-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42701 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

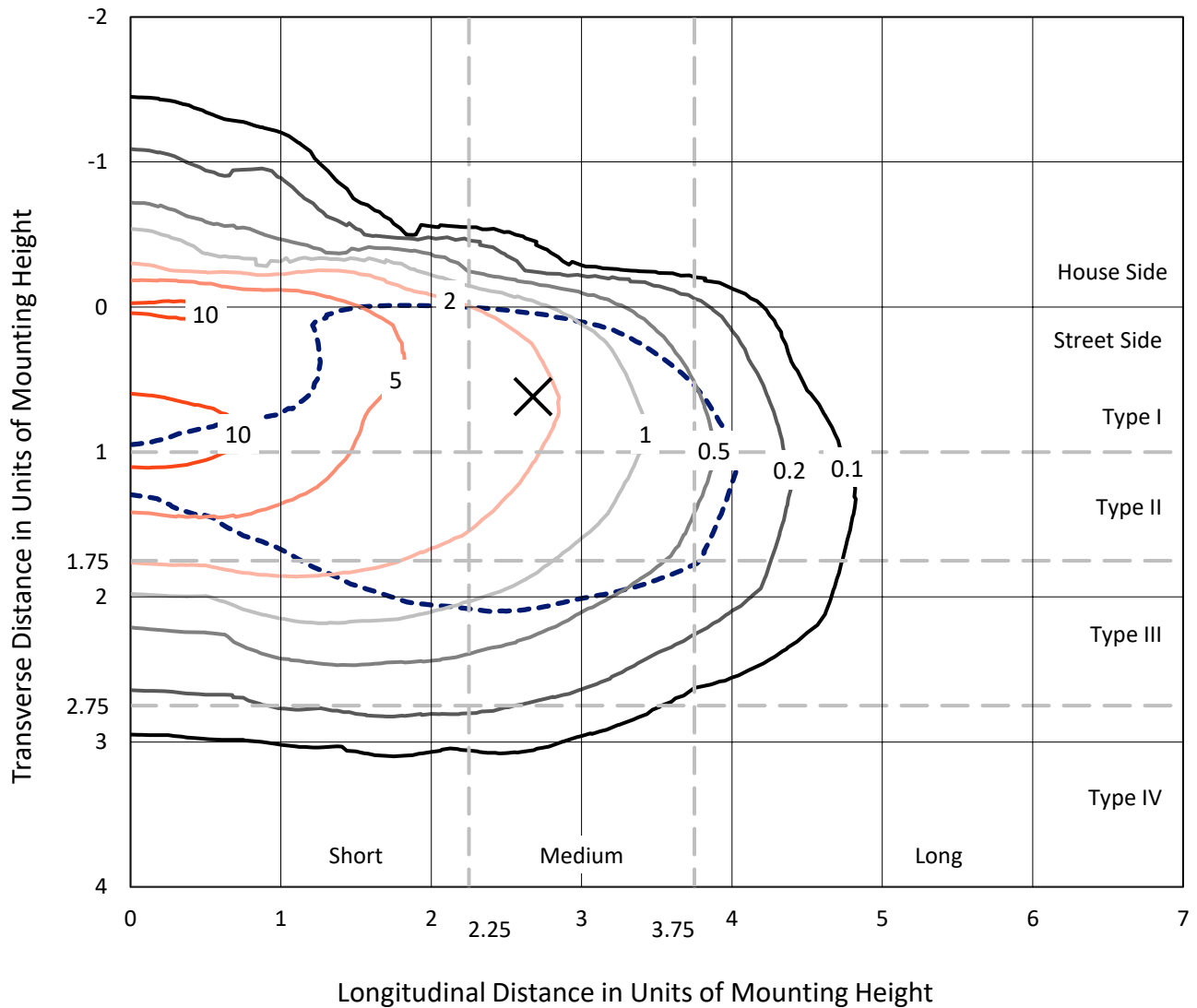
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956691
 CATALOG NUMBER: GALN-SB9B-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

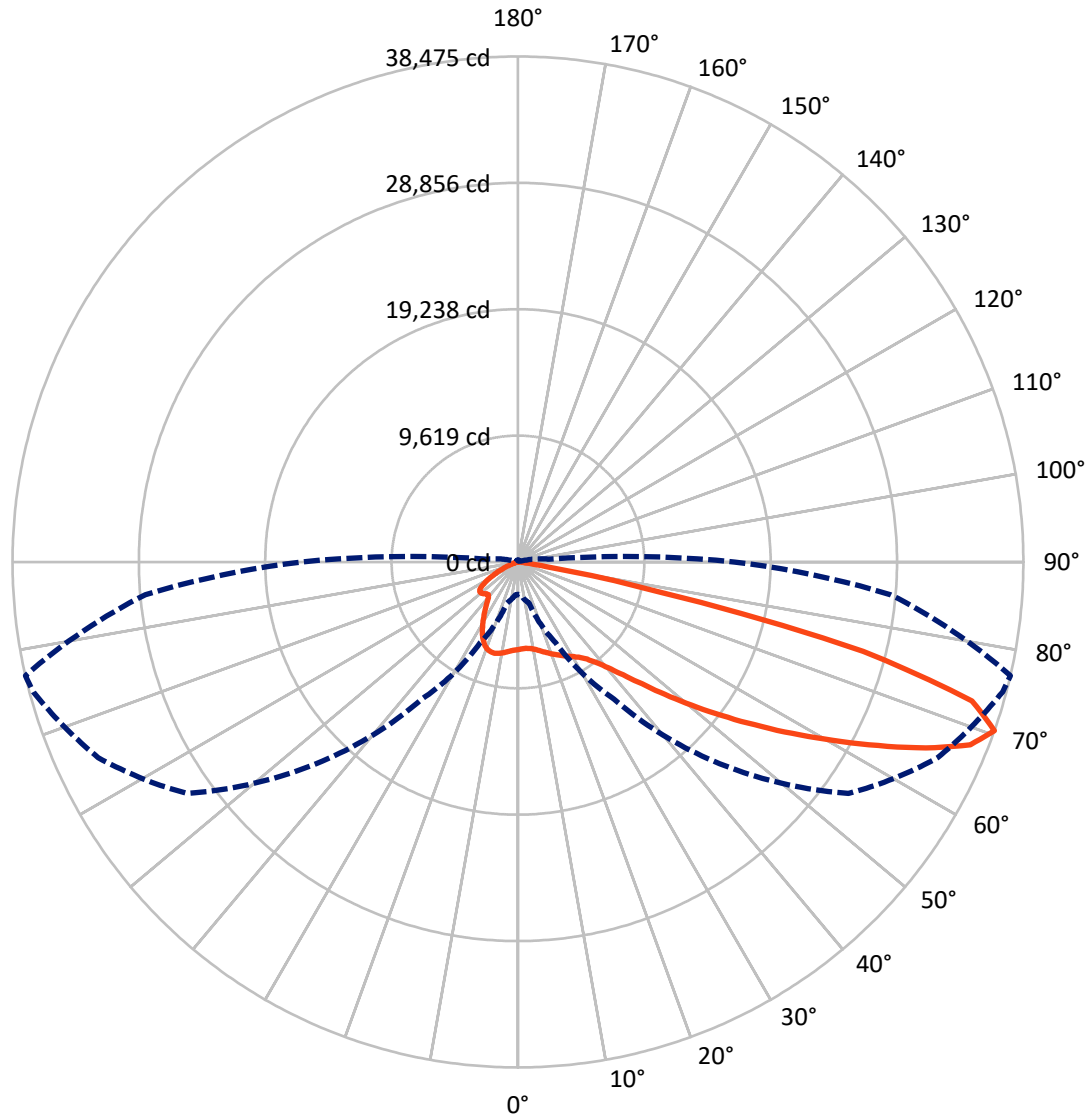
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P956691
CATALOG NUMBER: GALN-SB9B-735-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P956691
 CATALOG NUMBER: GALN-SB9B-735-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4501.3	0.0	4501.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	38199.7	0.0	38199.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	42701.0	0.0	42701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.0	1.3
10°-20°	1362.7	3.2
20°-30°	2107.7	4.9
30°-40°	3824.6	9.0
40°-50°	7219.3	16.9
50°-60°	10431.3	24.4
60°-70°	11103.9	26.0
70°-80°	5884.3	13.8
80°-90°	193.2	0.5
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°	42701.0	100.0
0°-180°	42701.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956691

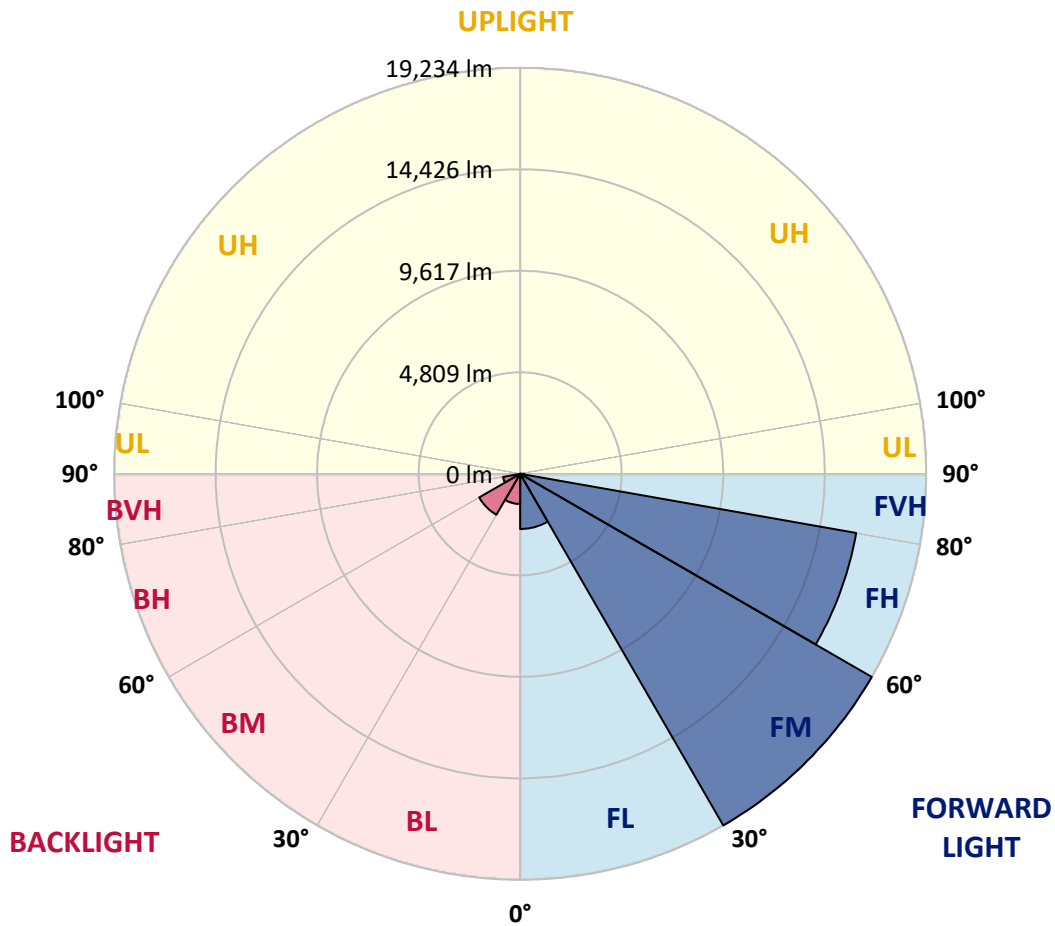
CATALOG NUMBER: GALN-SB9B-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2614.3	6.1			
FM (30°-60°)	19234.4	45.0			
FH (60°-80°)	16162.9	37.9			G5
FVH (80°-90°)	188.0	0.4			G2/225
BL (0°-30°)	1430.1	3.3	B3/2500		
BM (30°-60°)	2240.8	5.2	B2/2500		
BH (60°-80°)	825.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P956691
 CATALOG NUMBER: GALN-SB9B-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6
2.5°	6253.4	6310.0	6301.9	6339.7	6353.2	6407.1	6461.0	6533.8	6614.7	6612.0
5°	5900.1	5956.8	5970.3	6021.5	6086.2	6169.8	6280.4	6426.0	6577.0	6601.3
7.5°	5482.2	5541.5	5576.6	5679.0	5797.7	5970.3	6150.9	6364.0	6614.7	6649.8
10°	5064.2	5118.1	5164.0	5309.6	5498.4	5754.5	6048.5	6355.9	6692.9	6744.2
12.5°	4805.3	4856.6	4907.8	5034.5	5269.1	5581.9	5981.0	6393.6	6822.4	6895.2
15°	4713.6	4759.5	4799.9	4913.2	5131.6	5487.6	5967.6	6471.8	6986.9	7083.9
17.5°	4727.1	4751.4	4778.4	4864.7	5077.7	5444.4	5991.8	6606.7	7181.0	7267.3
20°	4805.3	4818.8	4821.5	4880.8	5069.6	5439.0	6040.4	6736.1	7364.4	7480.3
22.5°	4905.1	4910.5	4905.1	4945.6	5120.8	5479.5	6105.1	6892.5	7569.3	7677.2
25°	5371.6	5269.1	5139.7	5061.5	5207.1	5557.7	6202.2	7102.8	7793.2	7898.3
27.5°	6819.7	6525.8	6061.9	5541.5	5385.1	5670.9	6337.0	7315.9	8019.7	8114.0
30°	9171.1	8785.5	7998.1	6825.1	5956.8	5908.2	6512.3	7528.9	8259.7	8362.1
32.5°	11527.9	11433.6	10524.8	8901.5	7243.0	6436.8	6803.5	7817.4	8577.9	8658.8
35°	13911.7	13720.3	12976.0	11371.5	9225.0	7512.7	7288.9	8194.9	8995.8	9087.5
37.5°	15737.3	15621.4	15160.2	13838.9	11576.5	9173.8	8119.4	8780.1	9602.6	9705.0
40°	17349.9	17295.9	17139.5	16268.5	14205.7	11347.3	9411.1	9686.2	10443.9	10565.3
42.5°	18617.3	18744.0	18833.0	18590.3	16915.7	13828.1	11147.7	10959.0	11616.9	11741.0
45°	19914.3	19957.5	20316.1	20666.7	19606.9	16422.3	13105.4	12450.2	13075.8	13229.5
47.5°	20747.6	20920.2	21551.2	22168.7	21869.4	18994.8	15208.8	14211.0	14766.5	15055.1
50°	20809.6	21135.9	22004.2	23080.1	23517.0	21443.3	17495.5	16217.3	16807.9	17126.1
52.5°	19776.8	20283.8	21629.4	23204.2	24406.9	23517.0	19860.4	18223.6	18981.3	19396.6
55°	15162.9	15826.3	20219.1	22530.0	24441.9	25089.1	22163.3	20313.4	21402.9	21872.1
57.5°	13210.6	13545.0	15896.4	21359.7	23792.0	25722.8	24245.1	22303.5	24037.4	24619.9
60°	10991.3	11430.9	13332.0	19445.1	22910.3	25784.8	26084.1	24870.7	26893.1	27548.4
62.5°	7469.6	7946.9	9837.2	16155.3	21704.9	25755.2	27591.5	27513.3	30067.0	30770.8
65°	4627.4	4926.7	6172.5	13191.7	20019.5	25787.5	29169.0	30722.3	33416.2	34130.8
67.5°	3656.6	3794.1	4444.0	10128.4	17115.3	25059.4	30743.9	33739.8	36568.5	37134.8
70°	2456.6	2540.2	3233.2	6790.0	12733.3	21699.5	30714.2	35255.3	38191.8	38475.0
72.5°	1294.4	1359.1	1890.3	3144.2	7690.7	15424.5	25890.0	33443.1	36576.6	36150.5
75°	647.2	755.0	1272.8	1596.4	3284.5	8602.1	16077.1	26367.3	28788.8	27138.5
77.5°	490.8	593.3	1051.7	1051.7	1143.4	2896.1	6808.9	14380.9	13264.5	11045.2
80°	312.8	404.5	919.5	795.5	477.3	736.2	1774.4	4028.7	2817.9	2143.8
82.5°	183.4	264.3	765.8	525.8	267.0	272.4	501.6	857.5	730.8	569.0
85°	72.8	172.6	525.8	207.6	105.2	67.4	151.0	183.4	151.0	113.3
87.5°	0.0	40.4	91.7	0.0	8.1	5.4	10.8	13.5	13.5	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956691
 CATALOG NUMBER: GALN-SB9B-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6660.6	0°	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6
6666.0	2.5°	6690.2	6695.6	6711.8	6714.5	6676.8	6628.2	6609.3	6601.3	6568.9	6566.2
6709.1	5°	6771.1	6795.4	6771.1	6701.0	6533.8	6299.2	6121.3	5975.7	5843.5	5803.1
6857.4	7.5°	6932.9	6957.2	6884.4	6609.3	6188.7	5722.2	5301.5	5004.9	4737.9	4638.1
7038.1	10°	7164.8	7197.2	6968.0	6412.5	5668.2	4918.6	4206.7	3705.1	3314.1	3155.0
7283.5	12.5°	7456.1	7469.6	7013.8	6113.2	4991.4	3920.8	2912.3	2375.7	2027.8	1898.4
7580.1	15°	7777.0	7758.1	7019.2	5706.0	4069.2	2772.1	1901.1	1561.3	1421.1	1378.0
7876.7	17.5°	8114.0	8035.8	6911.4	5118.1	3057.9	1895.7	1410.3	1329.4	1305.2	1294.4
8170.7	20°	8445.7	8270.5	6714.5	4349.6	2195.0	1415.7	1280.9	1256.6	1243.1	1237.7
8467.3	22.5°	8747.7	8448.4	6377.4	3457.0	1593.7	1251.2	1210.8	1189.2	1164.9	1154.1
8755.8	25°	9041.7	8550.9	5902.8	2623.8	1275.5	1170.3	1138.0	1097.5	1065.2	1051.7
9065.9	27.5°	9327.5	8615.6	5309.6	1941.5	1138.0	1094.8	1035.5	978.9	954.6	949.2
9397.6	30°	9632.2	8637.2	4635.4	1448.1	1054.4	1000.4	914.1	849.4	835.9	838.6
9845.3	32.5°	10004.4	8669.5	3955.9	1186.5	984.3	887.2	784.7	717.3	706.5	717.3
10497.8	35°	10449.3	8734.3	3300.6	1092.1	922.2	771.2	660.7	604.0	593.3	601.3
11333.8	37.5°	11053.3	8839.4	2688.5	1073.2	871.0	674.1	555.5	509.7	509.7	512.4
12358.5	40°	11856.9	9119.9	2141.1	1059.8	844.0	601.3	469.2	450.3	458.4	463.8
13663.6	42.5°	12835.8	9715.8	1771.7	1043.6	814.4	569.0	426.1	418.0	431.5	436.8
15227.7	45°	13933.3	10470.9	1642.2	1016.6	787.4	590.6	407.2	396.4	412.6	415.3
16980.4	47.5°	15068.6	11209.7	1626.0	987.0	760.4	622.9	401.8	377.5	396.4	399.1
18851.9	50°	16217.3	11692.4	1642.2	941.1	717.3	622.9	404.5	358.6	374.8	382.9
20793.4	52.5°	17374.1	11913.5	1631.4	841.3	641.8	585.2	404.5	342.5	358.6	364.0
22891.4	55°	18495.9	11870.4	1466.9	693.0	544.7	517.7	393.7	329.0	339.8	342.5
24873.4	57.5°	19383.1	11269.1	1162.2	539.3	442.2	431.5	358.6	312.8	320.9	318.2
26690.9	60°	19846.9	9947.7	830.6	415.3	347.9	339.8	315.5	291.2	296.6	283.1
28230.6	62.5°	19852.3	8200.3	555.5	329.0	277.7	269.7	269.7	261.6	256.2	229.2
29422.5	65°	19429.0	6261.5	369.4	261.6	223.8	210.3	226.5	223.8	204.9	167.2
29786.6	67.5°	18469.0	4104.2	280.4	204.9	172.6	164.5	180.7	188.8	175.3	140.2
28459.8	70°	16495.1	2389.2	231.9	159.1	129.4	121.3	145.6	161.8	145.6	113.3
24326.0	72.5°	13701.4	1289.0	188.8	118.7	89.0	80.9	116.0	132.1	116.0	83.6
15607.9	75°	8890.7	690.3	145.6	78.2	45.8	51.2	86.3	97.1	80.9	53.9
4581.5	77.5°	2985.1	304.7	91.7	37.8	21.6	21.6	51.2	59.3	37.8	18.9
833.2	80°	666.1	126.7	37.8	16.2	8.1	8.1	10.8	10.8	5.4	0.0
256.2	82.5°	218.4	51.2	16.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
64.7	85°	83.6	18.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.6	87.5°	32.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

<u>180°</u>
6660.6
6571.6
5778.8
4597.7
3087.6
1858.0
1378.0
1291.7
1232.3
1151.4
1046.3
943.8
838.6
714.6
598.6
509.7
463.8
436.8
418.0
401.8
385.6
364.0
342.5
318.2
280.4
221.1
161.8
137.5
107.9
80.9
48.5
16.2
0.0
0.0
0.0
0.0
0.0

F REPORT)