

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: P943677

Luminaire Tested: **GALN-SB8B-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45564 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

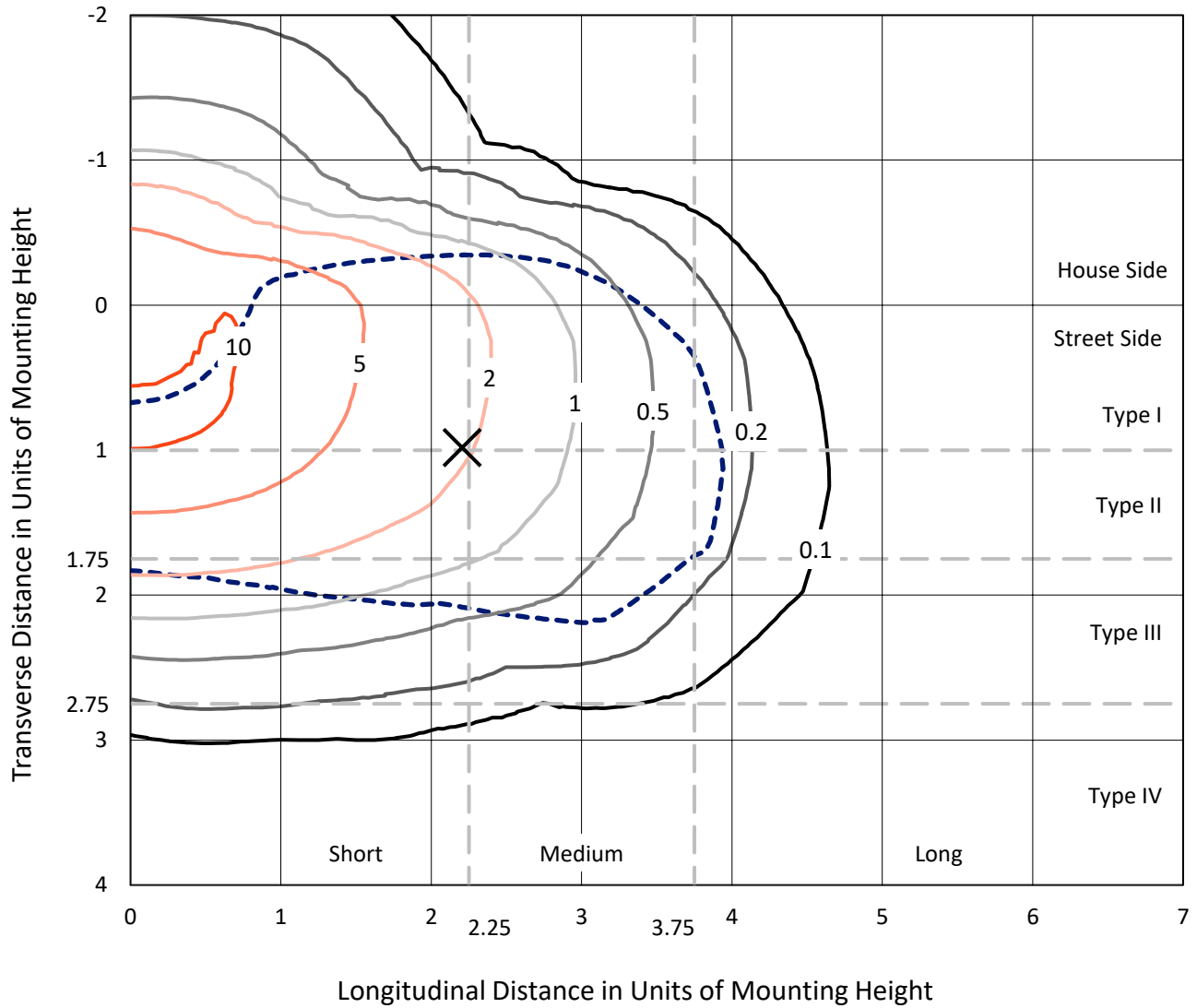
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943677
 CATALOG NUMBER: GALN-SB8B-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

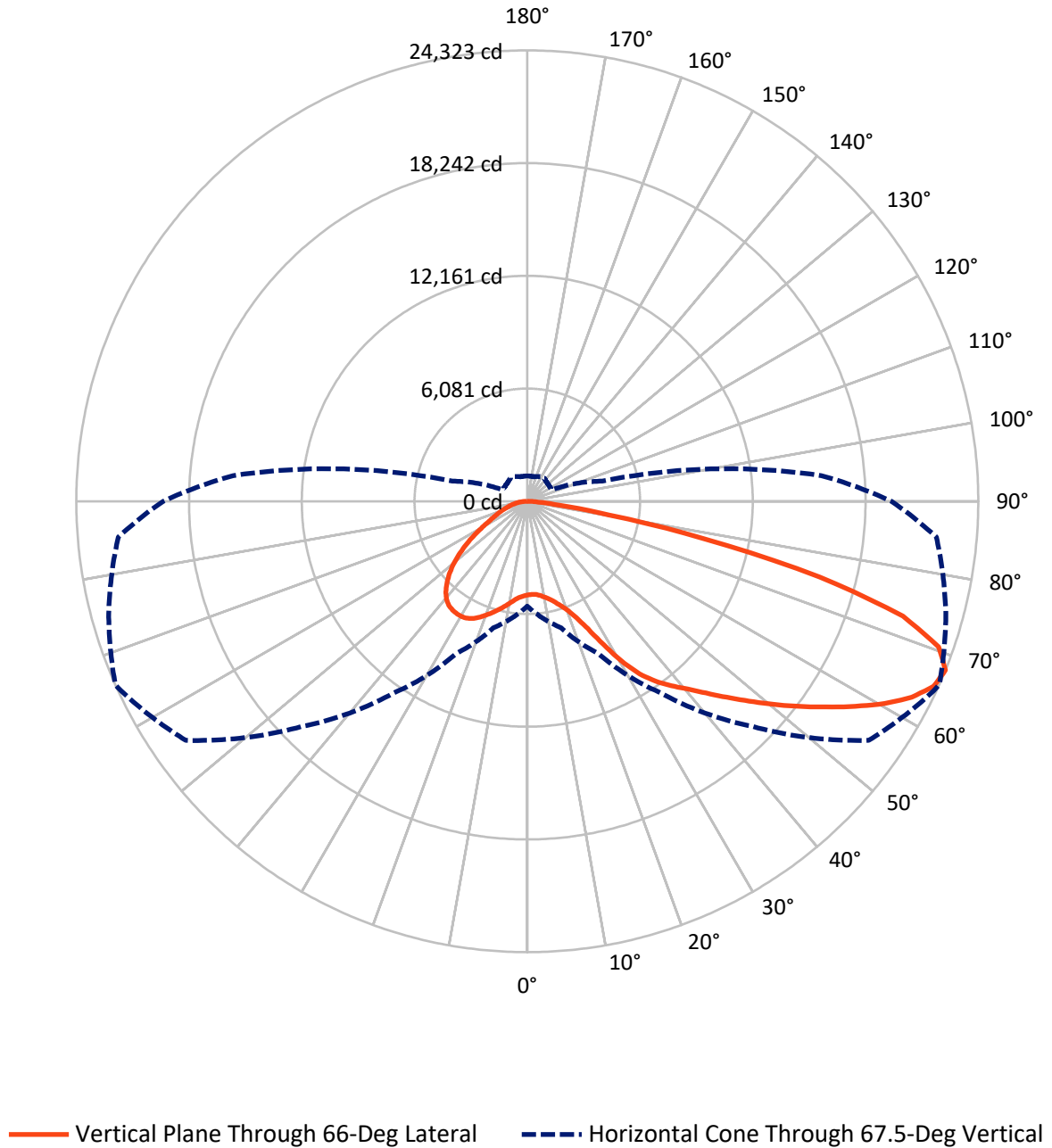
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

REPORT NUMBER: P943677
CATALOG NUMBER: GALN-SB8B-735-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P943677

CATALOG NUMBER: GALN-SB8B-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11329.4	0.0	11329.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	34234.6	0.0	34234.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	45564.0	0.0	45564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.0	1.1
10°-20°	1655.4	3.6
20°-30°	3190.7	7.0
30°-40°	5594.5	12.3
40°-50°	8317.1	18.3
50°-60°	10542.8	23.1
60°-70°	10315.8	22.6
70°-80°	4920.8	10.8
80°-90°	525.9	1.2
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°	45564.0	100.0
0°-180°	45564.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943677

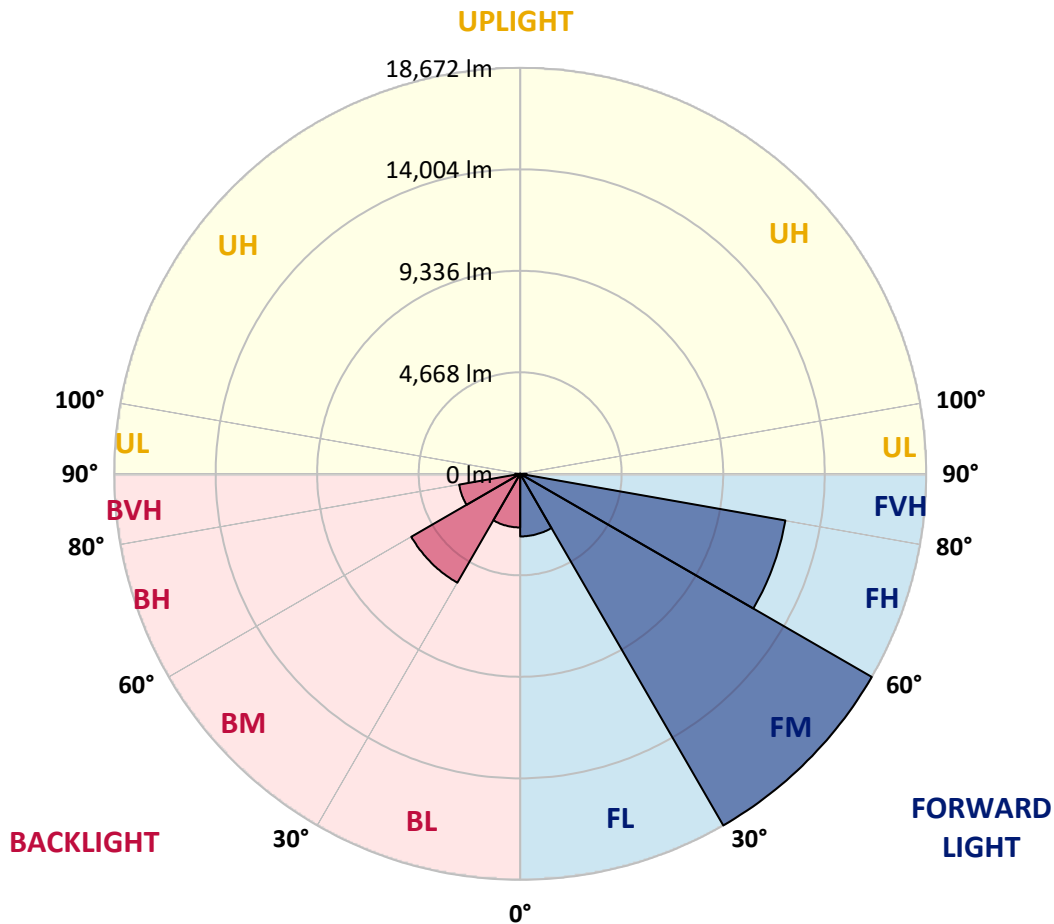
CATALOG NUMBER: GALN-SB8B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2879.2	6.3			
FM (30°-60°)	18671.7	41.0			
FH (60°-80°)	12385.5	27.2			G5
FVH (80°-90°)	298.2	0.7			G3/500
BL (0°-30°)	2467.9	5.4	B3/2500		
BM (30°-60°)	5782.6	12.7	B4/8500		
BH (60°-80°)	2851.1	6.3	B4/5000		G4/5000
BVH (80°-90°)	227.7	0.5			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 Short



REPORT NUMBER: P943677

CATALOG NUMBER: GALN-SB8B-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6
2.5°	5001.0	5029.7	5022.5	5010.6	5008.2	5013.0	5020.1	5027.3	5024.9	5036.9
5°	4986.6	5015.3	5013.0	5013.0	5022.5	5041.7	5053.6	5065.6	5053.6	5068.0
7.5°	4996.2	5017.7	5027.3	5036.9	5060.8	5096.7	5125.5	5151.8	5137.4	5154.2
10°	5118.3	5135.0	5144.6	5144.6	5161.4	5202.1	5230.8	5278.7	5266.7	5293.0
12.5°	5340.9	5357.7	5357.7	5348.1	5360.1	5386.4	5396.0	5448.7	5427.1	5470.2
15°	5613.8	5647.4	5621.0	5604.3	5609.0	5635.4	5633.0	5673.7	5652.1	5688.0
17.5°	5915.5	5958.6	5915.5	5913.1	5903.5	5932.2	5934.6	5970.5	5932.2	5958.6
20°	6272.2	6332.0	6296.1	6308.1	6286.5	6298.5	6310.5	6363.1	6303.3	6322.4
22.5°	6774.9	6846.7	6808.4	6853.9	6839.5	6830.0	6827.6	6920.9	6827.6	6834.8
25°	7507.5	7593.6	7526.6	7588.9	7588.9	7620.0	7655.9	7775.6	7620.0	7574.5
27.5°	8589.5	8675.7	8544.0	8582.3	8570.4	8647.0	8608.7	8905.5	8738.0	8663.7
30°	9891.8	10045.1	9796.1	9786.5	9774.5	9896.6	9951.7	10148.0	9978.0	9903.8
32.5°	11299.5	11459.9	11163.0	11076.9	11031.4	11105.6	11060.1	11218.1	11100.8	10985.9
35°	12788.5	12946.5	12664.0	12496.5	12314.5	12158.9	11996.1	12036.8	11926.7	11752.0
37.5°	14196.2	14485.9	14186.6	14007.1	13671.9	13367.9	12913.0	12723.9	12621.0	12460.6
40°	15630.2	15795.3	15567.9	15414.7	15050.8	14574.4	13846.7	13446.9	13308.0	13152.4
42.5°	16685.9	16843.9	16721.8	16616.5	16331.6	15778.6	14837.8	14337.4	14136.3	13961.6
45°	17523.8	17641.1	17564.5	17602.8	17480.7	16944.4	15864.8	15292.6	15084.3	14871.3
47.5°	17861.3	17985.8	18107.9	18335.3	18543.6	18148.6	16968.4	16326.8	16106.6	15888.7
50°	17823.0	17949.9	18304.2	18787.8	19434.2	19302.5	18131.9	17428.0	17224.5	16975.6
52.5°	17516.6	17660.2	18115.1	18919.5	19948.9	20166.7	19316.9	18565.2	18373.6	18076.8
55°	16712.2	16798.4	17480.7	18620.2	20071.0	20770.0	20477.9	19776.5	19585.0	19170.8
57.5°	15220.8	15345.3	16338.8	17813.5	19764.5	21179.4	21497.8	21050.1	20865.8	20269.7
60°	13274.5	13473.2	14610.3	16458.5	18984.1	21177.0	22424.2	22302.1	22148.9	21351.7
62.5°	11072.1	11301.9	12395.9	14543.3	17619.5	20576.1	23003.6	23350.7	23271.7	22350.0
65°	8503.3	8661.3	9750.6	12065.6	15496.1	19285.7	23070.6	24066.5	24080.8	23108.9
67.5°	5661.7	6116.6	7062.2	9054.0	12652.1	17176.7	22481.7	24183.8	24322.6	23369.8
70°	2762.6	3361.1	4287.6	5884.4	9054.0	13942.4	20942.4	23221.4	23530.2	22608.6
72.5°	1146.7	1340.6	1845.7	2903.9	5197.3	9408.3	17849.4	20612.0	21184.2	20032.7
75°	773.2	837.9	1055.7	1489.0	2367.6	4639.5	12872.3	15369.2	16290.9	15129.8
77.5°	596.1	636.8	768.5	1041.4	1407.6	1754.8	6889.8	9262.2	9738.6	9015.7
80°	469.2	500.3	574.6	758.9	998.3	938.4	2348.5	4196.6	4471.9	3751.3
82.5°	407.0	418.9	411.8	514.7	663.1	548.2	770.9	1548.9	1709.3	1240.1
85°	294.5	328.0	342.3	318.4	351.9	277.7	316.0	548.2	603.3	538.6
87.5°	119.7	177.2	217.9	205.9	129.3	79.0	98.2	160.4	184.3	201.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943677
 CATALOG NUMBER: GALN-SB8B-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5053.6	0°	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6
5056.0	2.5°	5058.4	5075.2	5087.2	5101.5	5111.1	5125.5	5154.2	5171.0	5173.3	5185.3
5094.3	5°	5103.9	5127.9	5154.2	5192.5	5235.6	5271.5	5326.6	5364.9	5379.2	5391.2
5187.7	7.5°	5202.1	5235.6	5283.5	5350.5	5412.7	5460.6	5527.7	5573.1	5618.6	5635.4
5336.1	10°	5348.1	5396.0	5465.4	5556.4	5623.4	5685.7	5755.1	5793.4	5838.9	5858.0
5513.3	12.5°	5530.0	5580.3	5671.3	5798.2	5860.4	5903.5	5927.4	5917.9	5927.4	5944.2
5726.4	15°	5738.3	5793.4	5896.3	6032.8	6075.9	6037.6	5984.9	5937.0	5929.8	5934.6
5984.9	17.5°	5984.9	6025.6	6145.3	6260.2	6229.1	6071.1	5956.2	5879.6	5841.3	5829.3
6315.3	20°	6329.6	6329.6	6427.8	6499.6	6291.3	6023.2	5843.7	5719.2	5640.2	5606.7
6765.3	22.5°	6748.6	6710.3	6772.5	6722.2	6279.4	5889.1	5640.2	5424.7	5305.0	5257.1
7394.9	25°	7280.0	7234.5	7217.8	6906.6	6193.2	5676.1	5271.5	5010.6	4905.2	4878.9
8302.3	27.5°	8082.0	7967.1	7749.2	7007.1	6035.2	5340.9	4840.6	4598.8	4538.9	4541.3
9468.1	30°	9149.7	8919.9	8386.0	7023.9	5776.6	4866.9	4400.1	4227.7	4199.0	4211.0
10447.2	32.5°	10138.4	9920.6	9037.2	6947.3	5379.2	4402.5	4005.1	3890.2	3847.1	3861.5
11194.2	35°	10914.1	10854.2	9640.5	6839.5	4890.9	3966.8	3650.8	3552.6	3468.8	3449.7
11898.0	37.5°	11646.6	11622.7	10092.9	6688.7	4407.3	3658.0	3365.9	3236.6	3114.5	3047.5
12676.0	40°	12451.0	12427.0	10389.8	6456.5	3978.8	3389.8	3109.8	2939.8	2789.0	2666.9
13557.0	42.5°	13355.9	13214.7	10531.0	6123.7	3614.9	3162.4	2901.5	2671.7	2473.0	2360.4
14552.9	45°	14344.6	14026.2	10528.6	5700.0	3308.5	2954.1	2678.8	2353.3	2168.9	2063.6
15575.1	47.5°	15393.2	14801.9	10399.4	5230.8	3011.6	2724.3	2334.1	2085.1	1963.0	1898.4
16685.9	50°	16475.2	15527.2	10179.1	4692.2	2707.6	2463.4	2118.7	1948.7	1855.3	1795.5
17787.1	52.5°	17492.7	16185.6	9913.4	4081.7	2398.7	2209.6	2022.9	1891.2	1793.1	1726.0
18854.8	55°	18438.3	16752.9	9537.5	3456.9	2147.4	2039.7	1977.4	1867.3	1754.8	1675.8
19939.3	57.5°	19278.6	17121.6	8888.8	2870.4	1967.8	1922.3	1929.5	1826.6	1697.3	1630.3
21007.0	60°	19977.6	17392.1	7928.8	2326.9	1821.8	1807.4	1855.3	1750.0	1599.2	1522.6
21909.5	62.5°	20396.5	17387.3	6751.0	1905.6	1697.3	1702.1	1757.2	1654.2	1501.0	1429.2
22381.1	65°	20360.6	16961.2	5458.2	1630.3	1577.6	1582.4	1654.2	1548.9	1419.6	1376.5
22144.1	67.5°	19640.0	15922.2	4187.0	1450.7	1446.0	1467.5	1551.3	1477.1	1369.3	1364.6
20731.7	70°	17689.0	13765.3	3016.4	1307.1	1309.5	1340.6	1450.7	1431.6	1343.0	1352.6
17430.4	72.5°	14184.2	10495.1	2025.3	1156.3	1158.7	1208.9	1355.0	1395.7	1316.7	1443.6
12367.2	75°	9446.6	6545.1	1302.3	995.9	998.3	1062.9	1271.2	1326.3	1244.9	1438.8
6435.0	77.5°	4538.9	2942.2	943.2	837.9	837.9	897.7	1098.8	1187.4	1060.5	1118.0
2068.4	80°	1568.0	1106.0	742.1	675.1	660.7	701.4	926.5	1029.4	914.5	842.7
675.1	82.5°	617.6	574.6	596.1	524.3	476.4	502.7	720.6	849.9	672.7	608.1
380.6	85°	354.3	373.5	421.3	347.1	275.3	308.8	529.1	610.5	507.5	447.7
124.5	87.5°	95.8	131.7	193.9	179.5	124.5	131.7	251.4	337.5	292.1	225.0
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°
5053.6
5182.9
5388.8
5637.8
5867.6
5949.0
5951.4
5846.1
5599.5
5250.0
4883.7
4548.5
4251.7
3880.6
3464.1
3049.9
2678.8
2367.6
2058.8
1884.0
1773.9
1697.3
1644.7
1587.2
1489.0
1407.6
1374.1
1371.7
1350.2
1462.7
1450.7
1024.6
790.0
605.7
457.2
232.2
0.0

F REPORT)