

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: P942655

Luminaire Tested: **GALN-SB6D-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942655
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-SB6D-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61143 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

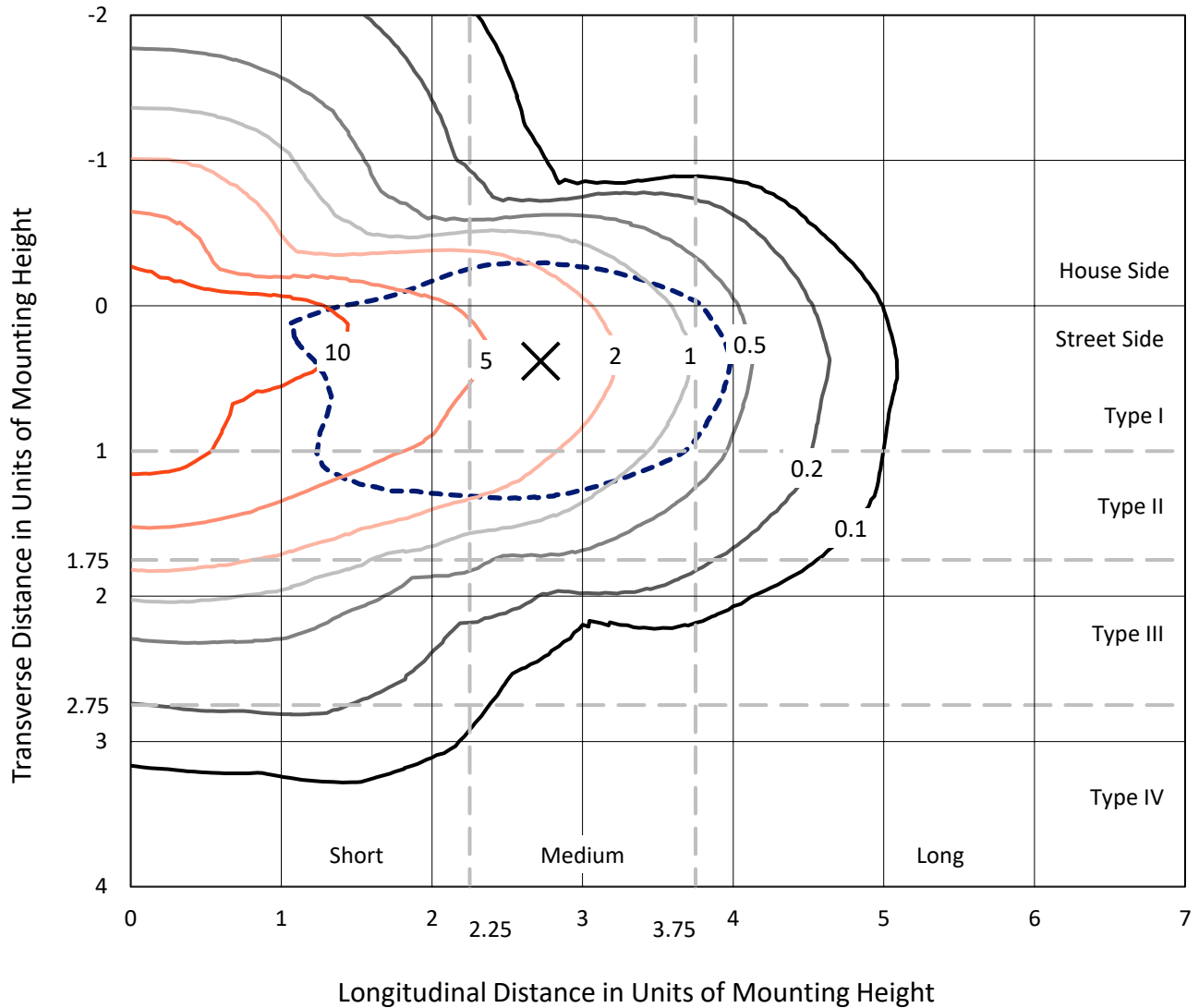
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942655
 CATALOG NUMBER: GALN-SB6D-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

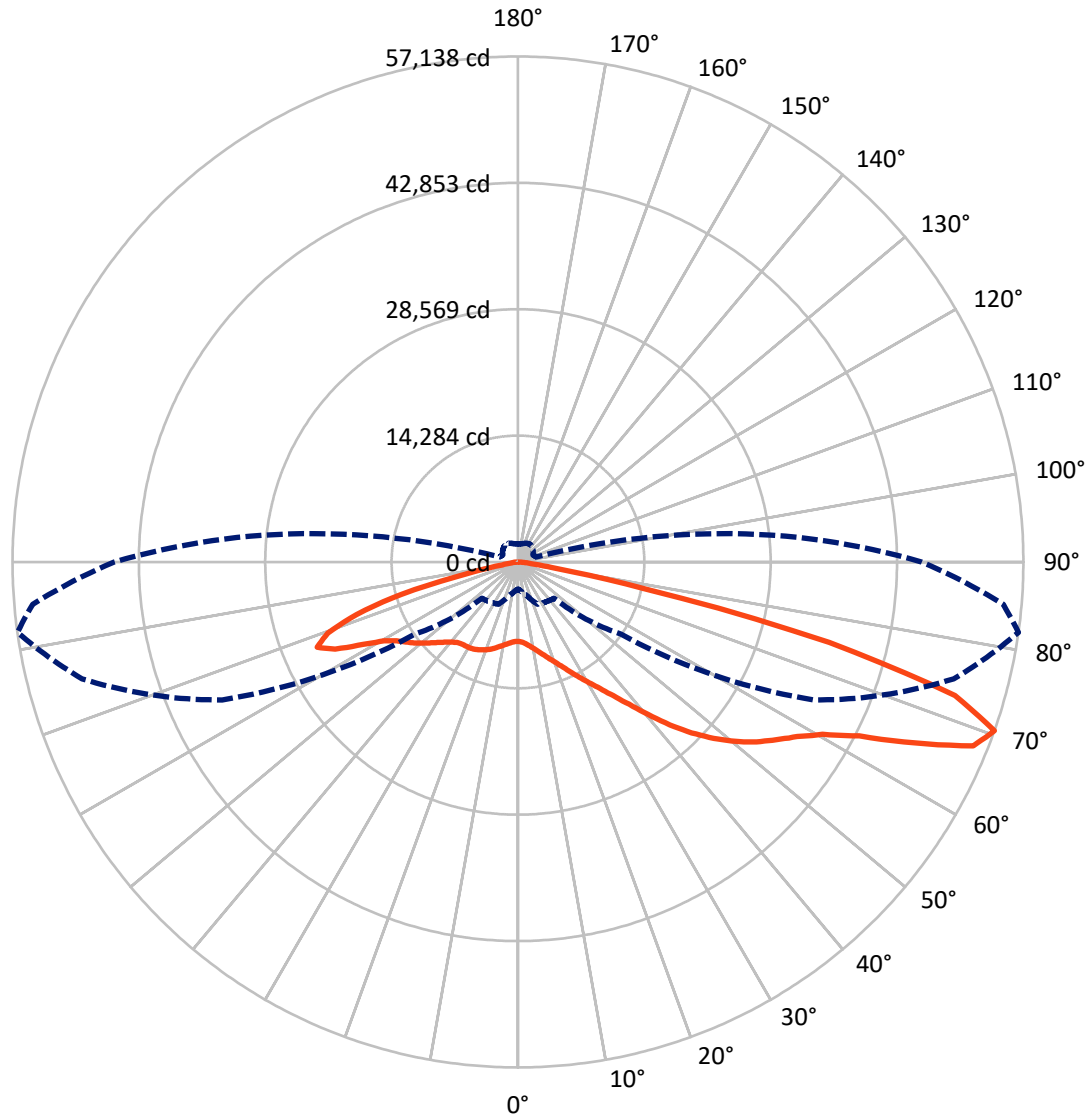
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P942655
CATALOG NUMBER: GALN-SB6D-735-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P942655
 CATALOG NUMBER: GALN-SB6D-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15073.2	0.0	15073.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	46069.7	0.0	46069.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	61143.0	0.0	61143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.4	1.4
10°-20°	2431.7	4.0
20°-30°	4068.0	6.7
30°-40°	6355.3	10.4
40°-50°	10121.6	16.6
50°-60°	14085.4	23.0
60°-70°	14734.0	24.1
70°-80°	7700.8	12.6
80°-90°	799.6	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°	61143.0	100.0
0°-180°	61143.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942655

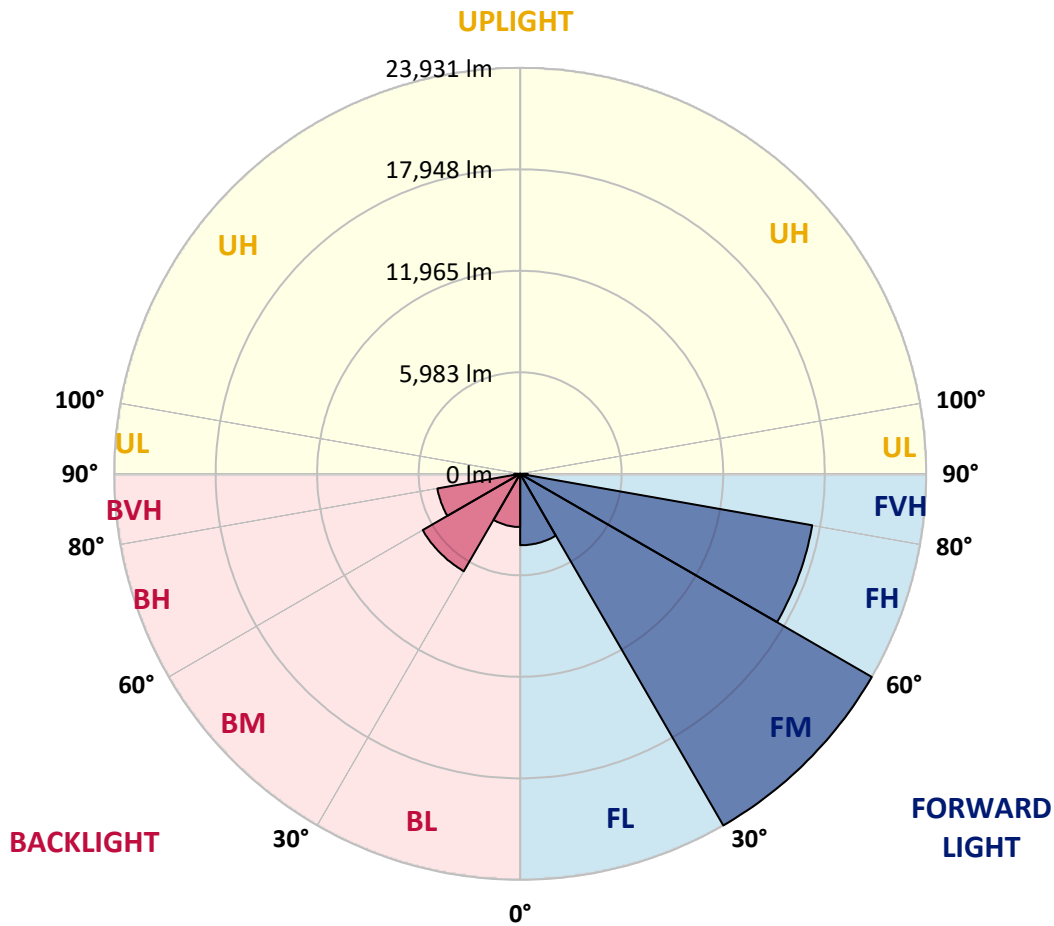
CATALOG NUMBER: GALN-SB6D-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4210.4	6.9			
FM (30°-60°)	23930.8	39.1			
FH (60°-80°)	17481.0	28.6			G5
FVH (80°-90°)	447.6	0.7			G3/500
BL (0°-30°)	3135.8	5.1	B4/5000		
BM (30°-60°)	6631.6	10.8	B4/8500		
BH (60°-80°)	4953.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	352.0	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-G5

Type II Medium



REPORT NUMBER: P942655

CATALOG NUMBER: GALN-SB6D-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3
2.5°	9178.5	9230.4	9214.1	9197.9	9197.9	9175.2	9172.0	9139.5	9113.6	9071.4
5°	9295.3	9350.4	9343.9	9356.9	9399.1	9408.8	9418.5	9399.1	9347.2	9295.3
7.5°	9191.4	9253.1	9272.5	9350.4	9480.2	9597.0	9684.6	9720.3	9671.6	9597.0
10°	8841.0	8909.2	8977.3	9162.2	9392.6	9668.4	9902.0	10041.5	10031.7	9960.4
12.5°	8130.5	8201.9	8347.9	8708.0	9129.8	9616.5	10051.2	10343.2	10443.8	10391.9
15°	7562.7	7624.4	7734.7	8104.6	8652.9	9392.6	10106.4	10674.1	10930.4	10901.2
17.5°	7546.5	7572.5	7640.6	7815.8	8237.6	9042.2	10048.0	10998.6	11488.5	11485.2
20°	7832.0	7841.8	7880.7	7916.4	8156.5	8776.2	9898.7	11267.9	12114.7	12114.7
22.5°	8227.8	8221.4	8260.3	8227.8	8344.6	8753.4	9804.6	11504.7	12812.2	12864.1
25°	8821.6	8789.1	8779.4	8704.8	8727.5	8964.3	9908.5	11774.0	13639.5	13746.6
27.5°	9613.2	9561.3	9525.6	9353.7	9295.3	9399.1	10226.4	12098.4	14561.0	14745.9
30°	10644.9	10550.8	10498.9	10200.5	9989.6	10005.8	10706.6	12529.9	15524.5	15823.0
32.5°	12053.0	11907.0	11767.5	11277.6	10891.5	10765.0	11326.3	13126.9	16569.2	17046.2
35°	13629.8	13513.0	13363.8	12607.8	12014.1	11722.1	12163.3	13960.7	17792.4	18548.3
37.5°	15148.2	15047.6	15119.0	14100.2	13334.6	12909.5	13259.9	15080.1	19301.0	20417.1
40°	16718.5	16640.6	16650.4	15677.0	14784.8	14307.9	14590.2	16484.9	21030.3	22639.6
42.5°	18425.1	18366.7	18172.0	17309.0	16306.4	15862.0	16121.5	18107.1	22886.1	25170.2
45°	20336.0	20300.3	20118.6	19129.1	17980.6	17480.9	17831.3	19898.0	24751.7	27551.6
47.5°	21987.4	22016.6	21993.9	21160.1	19969.4	19236.2	19654.7	21766.8	26487.4	29790.3
50°	22782.3	22934.8	23158.7	22899.1	22159.4	21413.2	21494.3	23570.7	28142.1	31889.4
52.5°	22367.0	22655.8	23265.7	23681.0	23966.5	23810.8	23593.4	25361.6	29699.4	33784.1
55°	20819.4	21225.0	22237.2	23239.8	24696.5	25828.8	26114.3	27347.2	31217.8	35451.8
57.5°	18000.0	18658.7	19567.1	21594.8	24047.6	26805.4	29053.8	30101.7	32827.0	37232.9
60°	13165.9	14048.3	15177.4	18194.7	21776.5	26283.0	31555.2	34332.4	35114.3	39539.7
62.5°	8425.8	8970.8	10009.0	12851.1	16968.3	23606.4	32320.9	39620.8	38991.4	43322.7
65°	5768.6	6119.0	7069.6	8665.8	10969.4	17571.8	30270.4	43585.5	45149.3	49318.4
67.5°	4191.8	4457.8	5268.9	6667.3	7147.5	10398.4	23489.6	43403.8	51135.3	55495.8
70°	3056.2	3244.4	3925.7	5268.9	5499.3	5784.8	14230.0	36895.5	51005.5	57137.5
72.5°	2264.6	2394.4	2851.8	4088.0	4451.3	3906.3	7043.6	26815.1	43828.8	51680.3
75°	1638.4	1735.8	2073.2	3127.6	3562.4	2975.1	3513.7	15670.5	30572.2	36353.7
77.5°	1252.3	1327.0	1547.6	2290.6	2851.8	2232.2	2180.2	7209.1	14496.1	14567.4
80°	1005.8	1054.4	1174.5	1612.5	2186.7	1670.9	1421.1	2910.2	4581.1	3877.1
82.5°	739.7	820.8	992.8	1132.3	1563.8	1151.8	866.3	1469.7	1742.3	1498.9
85°	421.8	476.9	600.2	811.1	999.3	704.0	496.4	652.1	811.1	665.1
87.5°	149.2	194.7	210.9	318.0	434.8	292.0	191.4	188.2	266.0	197.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942655
 CATALOG NUMBER: GALN-SB6D-735-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8964.3	0°	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3	8964.3
9061.7	2.5°	9029.2	9013.0	8948.1	8860.5	8769.7	8682.1	8652.9	8591.2	8549.0	8526.3
9272.5	5°	9210.9	9159.0	9006.5	8811.8	8607.4	8386.8	8231.1	8088.3	7984.5	7887.2
9561.3	7.5°	9470.5	9379.6	9116.8	8776.2	8412.8	8046.2	7773.6	7566.0	7426.5	7335.6
9898.7	10°	9772.2	9632.7	9230.4	8721.0	8159.7	7634.1	7312.9	7134.5	7046.9	6998.2
10284.8	12.5°	10119.3	9921.4	9347.2	8594.5	7773.6	7173.4	6952.8	6900.9	6904.1	6907.4
10771.5	15°	10547.6	10271.8	9441.3	8318.7	7270.7	6819.8	6780.8	6865.2	6952.8	6995.0
11323.0	17.5°	11031.0	10641.7	9457.5	7864.5	6777.6	6592.7	6715.9	6897.6	7030.7	7089.1
11939.5	20°	11550.1	11018.0	9340.7	7222.1	6372.0	6407.7	6628.3	6861.9	7007.9	7082.6
12643.5	22.5°	12143.9	11420.4	9061.7	6547.2	6041.1	6206.6	6466.1	6693.2	6845.7	6920.3
13470.8	25°	12821.9	11871.3	8623.7	5979.5	5755.6	5979.5	6239.0	6427.2	6550.5	6618.6
14395.5	27.5°	13574.6	12341.8	8039.7	5528.5	5505.8	5745.9	5960.0	6106.0	6170.9	6222.8
15378.5	30°	14330.6	12770.0	7332.4	5187.8	5288.4	5515.5	5668.0	5732.9	5752.4	5762.1
16475.2	32.5°	15148.2	13139.9	6589.4	4905.6	5080.8	5291.6	5382.5	5411.7	5320.8	5259.2
17805.4	35°	16137.7	13535.7	5862.7	4681.7	4876.4	5058.0	5087.2	5061.3	4954.2	4827.7
19473.0	37.5°	17360.9	14028.9	5281.9	4522.7	4684.9	4805.0	4769.3	4762.8	4772.5	4623.3
21478.1	40°	18859.8	14671.3	4856.9	4399.4	4529.2	4555.2	4454.6	4509.7	4558.4	4331.3
23677.8	42.5°	20524.2	15446.7	4587.6	4315.1	4399.4	4337.8	4182.1	4243.7	4237.2	3938.7
25887.2	45°	22221.0	16290.2	4493.5	4253.4	4279.4	4156.1	3984.1	4000.4	3864.1	3594.8
28005.8	47.5°	23908.1	17195.4	4551.9	4201.5	4130.1	3990.6	3857.6	3786.2	3585.1	3383.9
30036.8	50°	25562.8	18146.0	4766.1	4097.7	3925.7	3844.6	3747.3	3620.8	3406.6	3234.7
31957.5	52.5°	27097.4	19103.1	5006.1	3925.7	3669.4	3718.1	3656.5	3510.5	3299.6	3124.4
33774.4	55°	28550.9	20060.2	5100.2	3688.9	3429.4	3607.8	3572.1	3302.8	3049.8	2907.0
35675.6	57.5°	30134.2	21212.0	4996.4	3387.2	3234.7	3481.3	3345.0	3046.5	2900.5	2793.4
38151.1	60°	32327.4	23019.1	4772.5	3014.1	3049.8	3293.1	3059.5	2936.2	2777.2	2657.2
41862.7	62.5°	35970.9	26390.1	4412.4	2644.2	2832.4	3014.1	2923.2	2799.9	2637.7	2520.9
48208.8	65°	41356.6	31075.0	3734.3	2355.4	2589.0	2741.5	2777.2	2653.9	2485.2	2361.9
53769.7	67.5°	45898.8	34014.5	2825.9	2115.4	2339.2	2520.9	2621.5	2501.4	2323.0	2203.0
55070.8	70°	45649.0	31879.7	2157.5	1878.5	2118.6	2303.5	2433.3	2339.2	2147.8	2034.3
50022.4	72.5°	40545.5	26669.1	1745.5	1638.4	1894.7	2076.4	2232.2	2160.8	1966.1	1855.8
36645.7	75°	29787.0	18931.2	1395.1	1395.1	1615.7	1839.6	2011.5	1966.1	1787.7	1709.8
15385.0	77.5°	12555.9	7942.3	1093.4	1158.3	1343.2	1580.0	1794.2	1810.4	1654.7	1752.0
4068.5	80°	3338.5	2190.0	833.8	911.7	1054.4	1304.3	1560.6	1554.1	1385.4	1294.5
1511.9	82.5°	1271.8	863.0	593.7	642.4	762.4	999.3	1236.1	1275.1	1106.3	957.1
593.7	85°	489.9	369.9	366.6	386.1	444.5	661.9	934.4	966.8	833.8	707.3
165.5	87.5°	126.5	110.3	136.3	129.8	204.4	353.6	535.3	554.8	509.4	295.2
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>
8964.3
8552.3
7926.1
7355.1
7011.2
6913.9
6991.7
7102.0
7102.0
6939.8
6638.1
6242.3
5784.8
5278.7
4834.2
4633.0
4337.8
3935.5
3604.5
3383.9
3221.7
3127.6
2894.0
2783.7
2650.7
2520.9
2368.4
2206.2
2044.0
1855.8
1687.1
1589.8
1203.7
957.1
730.0
421.8
0.0

F REPORT)