

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: P956050

Luminaire Tested: **GALN-SB8D-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71119 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

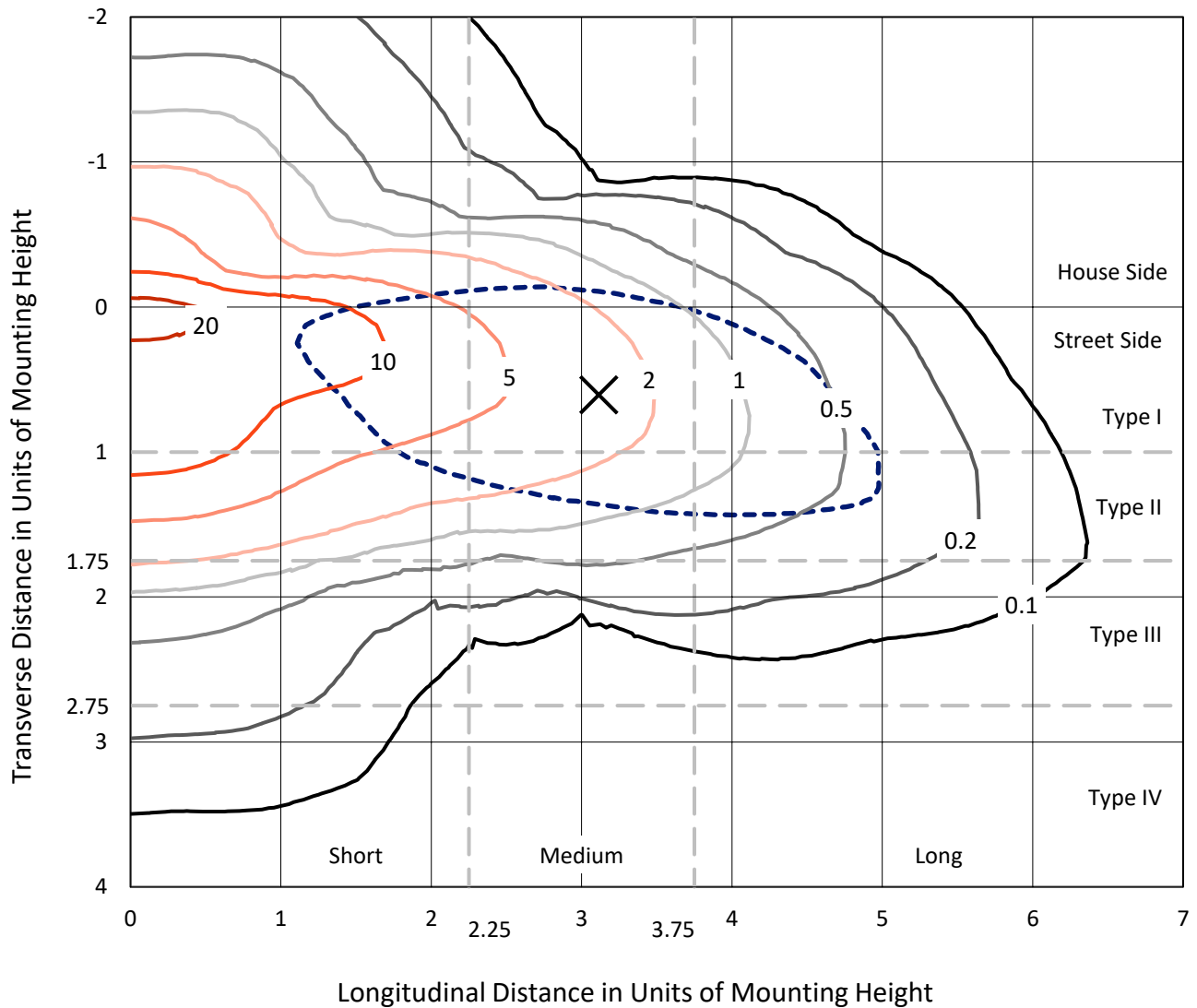
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956050
 CATALOG NUMBER: GALN-SB8D-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

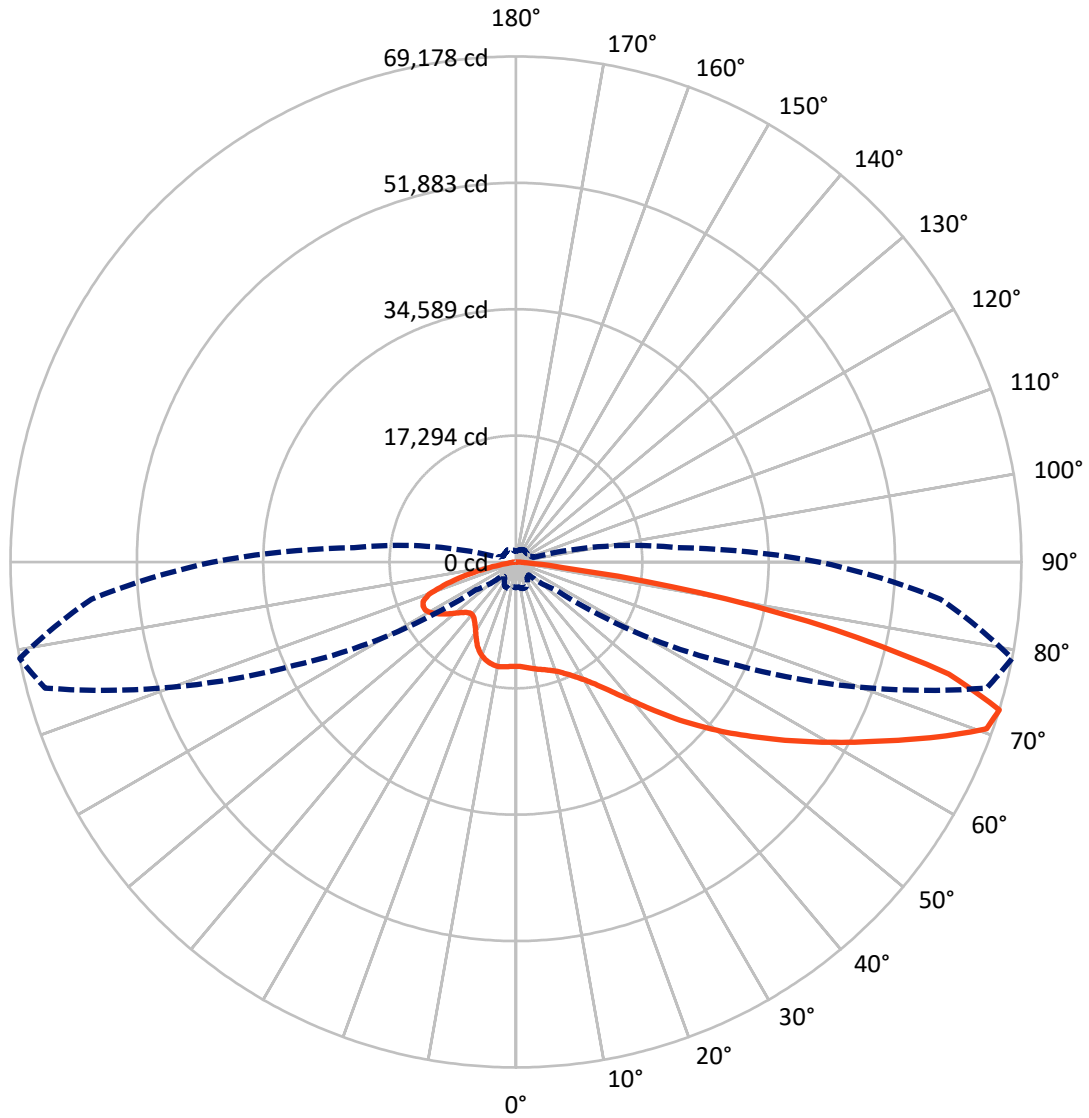
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P956050
CATALOG NUMBER: GALN-SB8D-827-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P956050

CATALOG NUMBER: GALN-SB8D-827-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15650.1	0.0	15650.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	55468.9	0.0	55468.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	71119.0	0.0	71119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1295.9	1.8
10°-20°	3388.1	4.8
20°-30°	5467.0	7.7
30°-40°	8205.2	11.5
40°-50°	11639.6	16.4
50°-60°	14699.2	20.7
60°-70°	14929.1	21.0
70°-80°	10174.8	14.3
80°-90°	1320.1	1.9
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°	71119.0	100.0
0°-180°	71119.0	100.0

Coefficient of Utilization

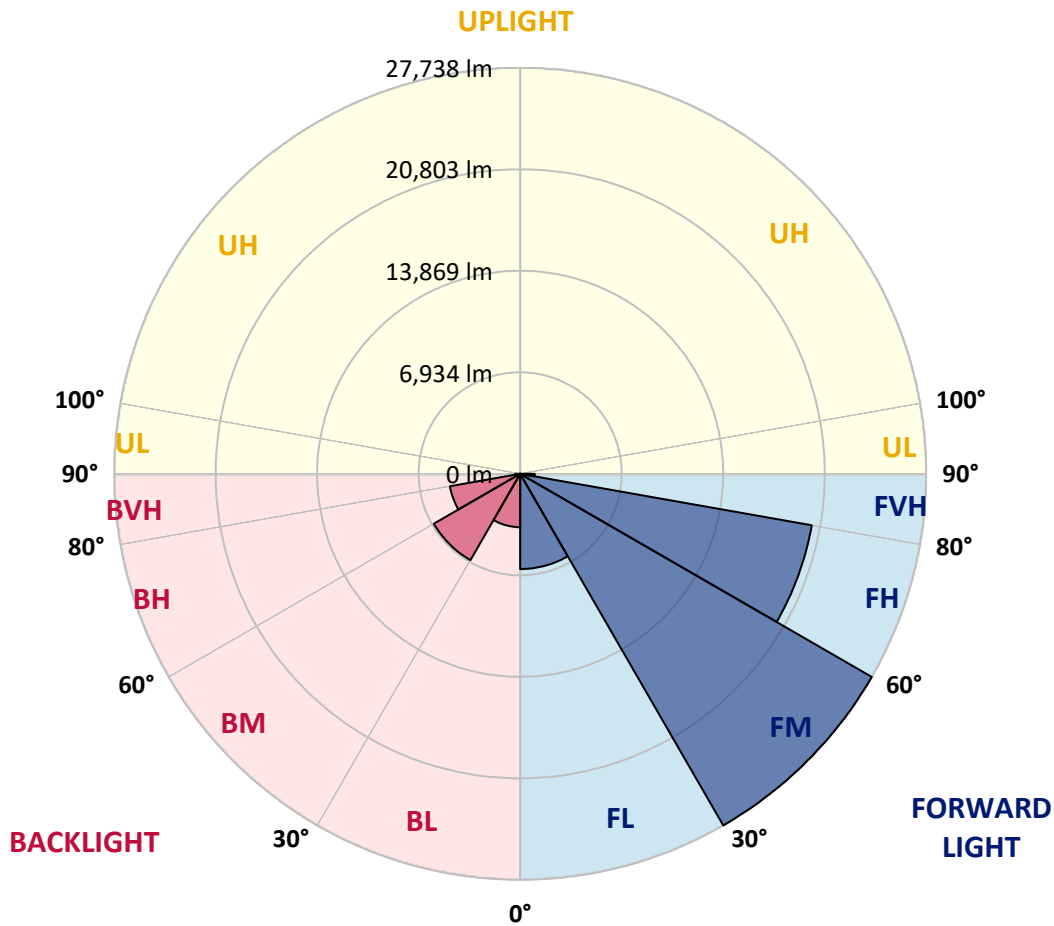


REPORT NUMBER: P956050
 CATALOG NUMBER: GALN-SB8D-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6505.7	9.1			
FM (30°-60°)	27737.9	39.0			
FH (60°-80°)	20231.0	28.4			G5
FVH (80°-90°)	994.4	1.4			G5
BL (0°-30°)	3645.4	5.1	B4/5000		
BM (30°-60°)	6806.1	9.6	B4/8500		
BH (60°-80°)	4872.9	6.9	B4/5000		G4/5000
BVH (80°-90°)	325.7	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 II Medium



REPORT NUMBER: P956050
 CATALOG NUMBER: GALN-SB8D-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5
2.5°	14284.0	14216.3	14257.7	14242.6	14261.4	14284.0	14291.5	14302.8	14340.4	14336.7
5°	14253.9	14186.2	14242.6	14223.8	14272.7	14325.4	14370.5	14411.9	14472.1	14498.4
7.5°	14189.9	14144.8	14201.2	14257.7	14347.9	14426.9	14490.9	14584.9	14671.5	14686.5
10°	13817.5	13783.7	13915.3	14062.0	14310.3	14524.7	14663.9	14773.0	14867.1	14882.1
12.5°	13430.0	13388.7	13535.4	13734.7	14137.3	14524.7	14818.2	14961.1	15043.9	15092.8
15°	13366.1	13332.2	13415.0	13588.0	13922.8	14423.2	14923.5	15186.8	15258.3	15314.8
17.5°	13674.6	13610.6	13644.5	13704.7	13900.3	14329.1	15006.3	15442.7	15551.8	15611.9
20°	14389.3	14299.0	14246.4	14126.0	14092.1	14344.2	14998.8	15751.1	15894.1	15969.3
22.5°	15341.1	15280.9	15168.0	14863.3	14532.3	14528.5	15141.7	16146.1	16413.2	16484.7
25°	16492.2	16401.9	16259.0	15845.2	15209.4	14893.4	15382.5	16650.2	17097.9	17116.7
27.5°	17816.4	17681.0	17485.4	16939.9	16082.2	15465.2	15751.1	17229.6	17884.1	17876.6
30°	19212.1	19076.7	18869.8	18207.7	17128.0	16236.4	16262.8	17854.0	18817.1	18775.7
32.5°	20231.6	20130.0	20088.6	19577.0	18331.8	17146.8	16849.6	18546.2	19968.2	19930.6
35°	21014.1	20882.4	20931.3	20671.7	19644.7	18166.3	17568.1	19370.1	21367.7	21363.9
37.5°	21789.0	21672.4	21713.8	21540.7	20859.8	19460.4	18444.7	20378.3	23101.9	23184.7
40°	22496.2	22372.1	22537.6	22375.9	21804.1	20837.2	19441.6	21518.1	25110.8	25268.8
42.5°	22921.3	22823.5	23098.2	23101.9	22624.1	21999.7	20536.3	22774.6	27435.6	27789.3
45°	23068.1	23034.2	23448.0	23534.5	23350.2	22673.1	21521.9	24144.0	29941.1	30573.1
47.5°	22910.1	22846.1	23417.9	23737.7	23884.4	22989.1	22338.2	25626.2	32499.2	33424.6
50°	22112.5	21988.4	22838.6	23512.0	24034.9	23196.0	23162.1	27337.8	35407.1	36419.1
52.5°	20679.2	20585.2	21552.0	22722.0	23703.8	23297.5	24087.5	29207.5	38168.4	39477.5
55°	18847.2	18723.0	19787.7	21315.0	22880.0	23263.7	25013.0	31299.1	41426.2	42754.2
57.5°	15943.0	15694.7	17041.5	18847.2	21537.0	23222.3	25976.0	33379.5	44736.7	46328.0
60°	11707.1	11338.4	12989.9	15130.4	18911.1	22819.8	27168.5	35711.8	48709.3	50142.5
62.5°	6816.6	6602.2	7681.8	9679.4	14253.9	20449.8	27838.2	38424.2	52614.1	54118.9
65°	5293.0	5232.8	5326.9	5481.1	7933.9	15311.0	25772.9	41068.8	57579.9	58633.2
67.5°	4841.6	4796.4	4837.8	4548.2	4025.2	8528.3	20389.6	41738.4	62899.2	63538.7
70°	4303.6	4251.0	4386.4	4138.1	3167.5	3878.5	13174.2	39308.2	67131.4	68331.4
72.5°	3506.1	3445.9	3761.9	3649.1	2667.2	2490.4	6617.2	33533.7	66687.4	69177.8
75°	2693.5	2659.7	3035.9	3129.9	2174.4	1960.0	3175.1	24926.4	58685.9	61195.1
77.5°	2091.6	2065.3	2257.1	2599.5	1753.1	1519.8	1952.4	15811.3	44225.1	44665.2
80°	1568.7	1493.5	1670.3	2012.6	1365.6	1109.8	1324.2	9220.5	27954.8	25340.3
82.5°	981.9	944.2	1091.0	1343.0	963.0	763.7	861.5	5093.6	11203.0	6598.4
85°	560.5	545.5	594.4	767.4	522.9	440.1	492.8	2249.6	2046.5	1407.0
87.5°	225.7	218.2	270.9	342.3	191.9	161.8	173.0	541.7	451.4	417.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956050
 CATALOG NUMBER: GALN-SB8D-827-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
14276.5	0°	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5	14276.5
14332.9	2.5°	14317.8	14317.8	14265.2	14182.4	14088.4	14028.2	13930.4	13904.0	13802.5	13772.4
14460.8	5°	14490.9	14460.8	14299.0	14065.8	13746.0	13452.6	13129.1	12925.9	12640.0	12538.5
14712.8	7.5°	14709.1	14626.3	14347.9	13836.3	13166.7	12508.4	11823.7	11304.6	10808.0	10631.2
14919.8	10°	14908.5	14791.8	14317.8	13422.5	12263.8	11124.0	10033.0	9269.4	8690.0	8453.0
15149.2	12.5°	15107.8	14893.4	14118.5	12734.1	10981.0	9434.9	8272.4	7678.1	7320.7	7034.8
15337.3	15°	15295.9	14995.0	13810.0	11812.4	9574.1	8005.4	7147.6	6673.6	6387.7	6199.6
15611.9	17.5°	15514.1	15081.5	13347.3	10642.5	8234.8	7016.0	6316.3	6030.3	5973.9	5951.3
15988.1	20°	15818.8	15160.5	12737.8	9333.3	7249.2	6226.0	5864.8	5838.5	5834.7	5823.4
16439.6	22.5°	16146.1	15254.6	11932.8	8144.5	6410.3	5733.2	5669.2	5616.5	5582.7	5578.9
16985.0	25°	16533.6	15284.7	10924.6	7170.2	5695.5	5499.9	5424.7	5345.7	5323.1	5323.1
17605.8	27.5°	16909.8	15183.1	9750.9	6323.8	5293.0	5285.5	5187.7	5161.3	5157.6	5168.9
18313.0	30°	17286.0	14991.2	8584.7	5541.3	5059.8	5059.8	5025.9	5044.7	5059.8	5097.4
19283.6	32.5°	17793.9	14788.1	7610.4	4962.0	4856.6	4819.0	4852.9	4890.5	4905.5	4954.4
20558.9	35°	18538.7	14645.1	6835.4	4646.0	4646.0	4597.1	4615.9	4608.3	4574.5	4551.9
22101.2	37.5°	19524.3	14637.6	6195.9	4499.2	4469.2	4461.6	4465.4	4416.5	4284.8	4126.8
23967.2	40°	20709.3	14840.8	5703.1	4397.7	4375.1	4420.2	4397.7	4266.0	3904.9	3630.2
26261.9	42.5°	22300.6	15420.1	5387.1	4273.5	4341.2	4397.7	4307.4	3852.2	3607.7	3423.3
28876.5	45°	24174.1	16360.6	5225.3	4141.9	4277.3	4345.0	3908.6	3709.2	3513.6	3291.7
31728.0	47.5°	26295.8	17545.6	5187.7	4017.7	4134.3	4175.7	3739.3	3649.1	3427.1	3186.3
34594.6	50°	28605.6	18948.8	5289.3	3871.0	3927.4	3784.5	3682.9	3600.2	3370.7	3133.7
37532.6	52.5°	30994.4	20494.9	5492.4	3671.6	3720.5	3562.5	3660.3	3588.9	3336.8	3017.1
40568.5	55°	33341.8	22052.3	5688.0	3438.4	3509.9	3363.2	3596.4	3543.7	3182.6	2821.4
43807.5	57.5°	35726.9	23602.2	5879.9	3231.5	3306.7	3171.3	3494.8	3423.3	3009.5	2640.9
47343.7	60°	38206.0	25107.0	5970.2	3032.1	3084.8	2994.5	3340.6	3216.4	2813.9	2456.5
50819.7	62.5°	40527.1	26359.7	5823.4	2832.7	2866.6	2829.0	3137.4	2971.9	2618.3	2249.6
54442.4	65°	42855.7	27104.6	5372.0	2637.1	2644.6	2625.8	2851.5	2708.6	2388.8	2069.1
57613.7	67.5°	44966.2	27522.2	4653.5	2426.4	2407.6	2400.1	2584.4	2422.7	2166.9	1888.5
60025.1	70°	45413.8	26461.3	3555.0	2178.1	2178.1	2159.3	2291.0	2125.5	1922.3	1696.6
58298.4	72.5°	41478.9	22259.2	2524.2	1896.0	1926.1	1888.5	1997.6	1858.4	1674.1	1523.6
50244.1	75°	33447.2	16322.9	1835.8	1606.3	1659.0	1595.1	1696.6	1598.8	1440.8	1437.1
34624.7	77.5°	22981.5	10093.2	1331.7	1324.2	1361.8	1279.1	1395.7	1343.0	1200.1	1136.1
15070.2	80°	9807.3	4025.2	970.6	1023.2	1023.2	948.0	1083.4	1098.5	974.3	944.2
2908.0	82.5°	1952.4	1143.6	680.9	703.5	662.1	639.5	767.4	850.2	1173.7	1305.4
876.5	85°	586.9	421.3	410.0	383.7	338.6	342.3	451.4	854.0	1053.3	601.9
289.7	87.5°	161.8	105.3	109.1	86.5	71.5	94.0	154.2	647.0	353.6	150.5
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>
14276.5
13821.3
12613.7
10653.7
8505.7
7128.8
6233.5
5966.4
5861.1
5620.3
5345.7
5199.0
5123.7
4995.8
4604.6
4130.6
3622.7
3415.8
3276.6
3167.5
3107.3
2994.5
2802.6
2633.3
2445.2
2245.9
2046.5
1865.9
1689.1
1478.4
1294.1
1064.6
944.2
1309.1
519.1
127.9
0.0

F REPORT)