

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: P944069

Luminaire Tested: **GALN-SB8D-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

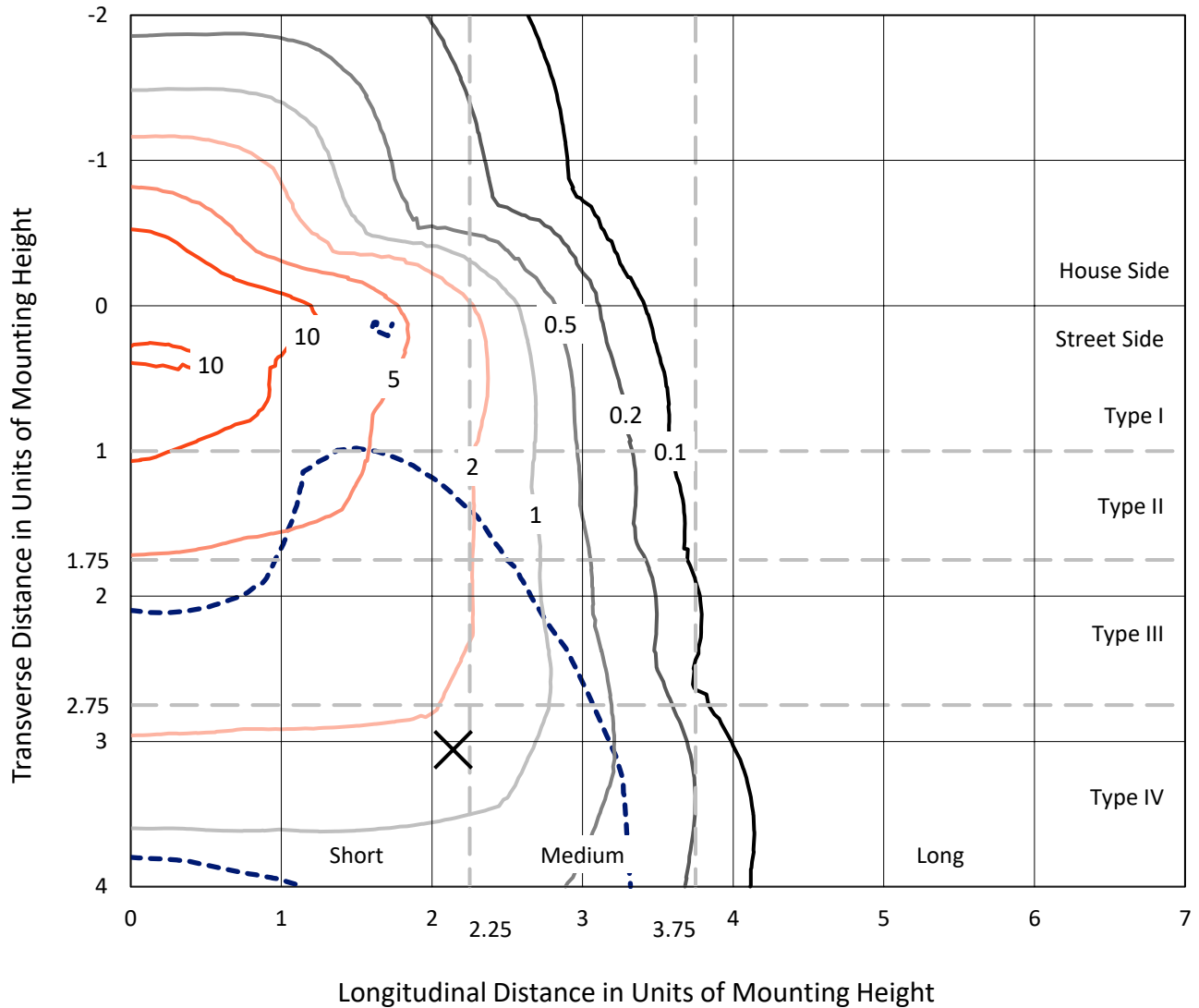
Lumens per Lamp: N/A  
Luminaire Lumens: 73078 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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: P944069  
 CATALOG NUMBER: GALN-SB8D-830-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

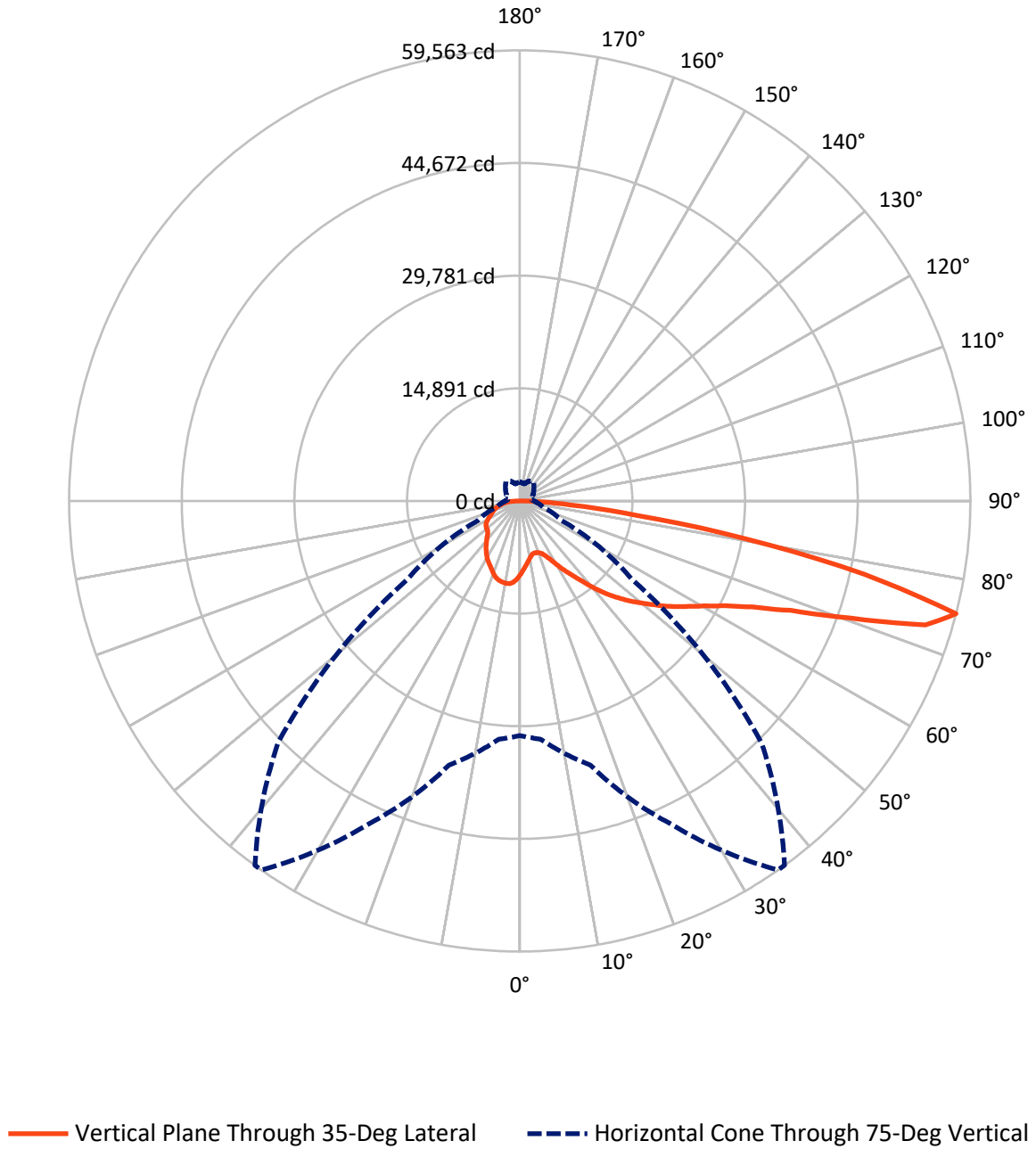
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P944069  
CATALOG NUMBER: GALN-SB8D-830-U-T4FT

### Luminous Intensity Polar Plot



REPORT NUMBER: P944069  
 CATALOG NUMBER: GALN-SB8D-830-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17390.7	0.0	17390.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	55687.3	0.0	55687.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	73078.0	0.0	73078.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	922.0	1.3
10°-20°	2659.5	3.6
20°-30°	4465.9	6.1
30°-40°	6940.7	9.5
40°-50°	10301.8	14.1
50°-60°	14222.3	19.5
60°-70°	17254.9	23.6
70°-80°	14259.9	19.5
80°-90°	2051.0	2.8
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°	73078.0	100.0
0°-180°	73078.0	100.0

**Coefficient of Utilization**

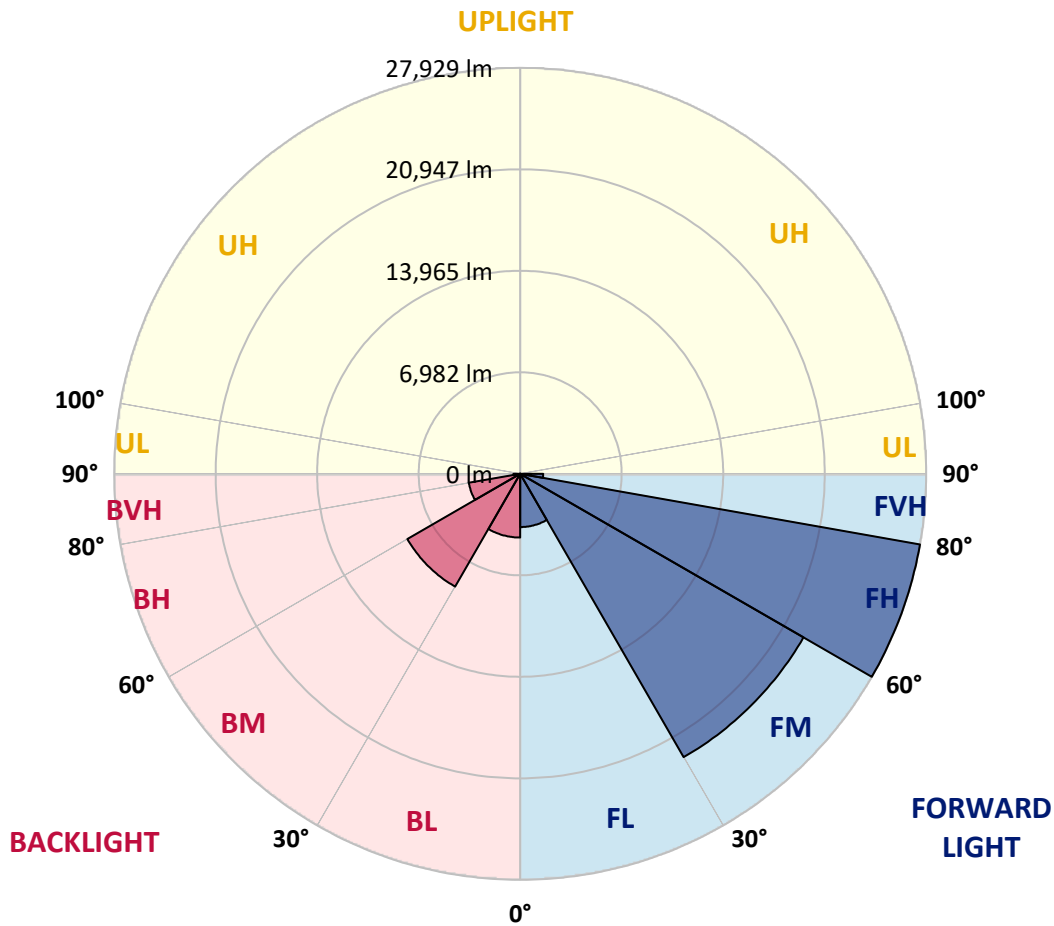


REPORT NUMBER: P944069  
 CATALOG NUMBER: GALN-SB8D-830-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3664.7	5.0			
FM (30°-60°)	22504.1	30.8			
FH (60°-80°)	27929.3	38.2			G5
FVH (80°-90°)	1589.2	2.2			G5
BL (0°-30°)	4382.7	6.0	B4/5000		
BM (30°-60°)	8960.8	12.3	B5		
BH (60°-80°)	3585.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	461.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type IV Short



REPORT NUMBER: P944069

CATALOG NUMBER: GALN-SB8D-830-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1
2.5°	8979.6	9034.9	9058.6	9046.8	9106.0	9098.1	9181.1	9283.8	9426.0	9564.3
5°	8288.3	8347.5	8398.9	8446.3	8560.9	8596.4	8726.8	8924.3	9185.1	9449.7
7.5°	7644.3	7695.7	7774.7	7861.6	8055.2	8090.8	8308.0	8616.2	8979.6	9366.8
10°	7118.9	7170.3	7253.2	7352.0	7593.0	7636.4	7913.0	8323.8	8797.9	9287.8
12.5°	6893.7	6909.5	6956.9	7055.7	7265.1	7292.7	7596.9	8067.0	8620.1	9228.5
15°	6881.9	6913.5	6917.4	6968.8	7142.6	7154.5	7435.0	7901.1	8509.5	9216.7
17.5°	7000.4	7024.1	6988.5	7020.2	7166.3	7186.1	7407.3	7822.1	8474.0	9268.0
20°	7316.4	7336.2	7229.5	7186.1	7292.7	7308.5	7525.8	7873.5	8509.5	9374.7
22.5°	7988.0	7999.9	7739.2	7561.4	7569.3	7577.2	7766.8	8082.9	8647.8	9568.3
25°	9034.9	9027.0	8612.2	8268.5	8071.0	8027.5	8154.0	8422.6	8880.9	9825.1
27.5°	10259.6	10200.4	9785.5	9272.0	8841.4	8778.2	8750.5	8865.1	9212.7	10164.8
30°	11642.3	11587.0	11140.6	10469.0	9872.5	9769.7	9509.0	9449.7	9706.5	10627.0
32.5°	13159.3	13123.8	12590.4	11776.6	10978.6	10860.1	10421.6	10263.6	10465.0	11326.3
35°	14431.4	14399.8	13957.3	13119.8	12144.0	11997.9	11551.4	11373.7	11476.4	12223.0
37.5°	15581.0	15565.2	15186.0	14526.2	13518.8	13341.1	12839.3	12780.1	12760.3	13404.3
40°	16647.7	16608.2	16213.1	15865.5	15118.8	14956.8	14514.4	14463.0	14312.9	14858.1
42.5°	17828.9	17726.2	17153.3	16991.4	16789.9	16655.6	16390.9	16398.8	16066.9	16497.6
45°	18792.8	18733.6	18144.9	18050.1	18267.4	18212.1	18441.2	18500.5	17856.5	18216.0
47.5°	19827.9	19772.6	19274.8	19207.6	19796.3	19812.1	20621.9	20641.7	19602.7	20001.7
50°	21103.9	21024.9	20531.1	20614.0	21273.8	21333.0	22814.5	22680.2	21210.6	21815.0
52.5°	21945.4	21992.8	21886.1	22020.4	22921.2	22976.5	24971.5	24627.8	22802.6	23604.6
55°	22565.6	22660.4	22992.3	23300.4	24659.4	24714.7	27006.0	26480.6	24122.1	25263.9
57.5°	23363.6	23229.3	23849.5	24450.0	26310.7	26456.9	28985.3	28266.3	25291.5	26694.0
60°	24509.3	24414.5	24896.4	25785.3	28159.6	28392.7	31079.1	29874.2	26148.8	27827.8
62.5°	26832.2	26595.2	26670.3	27456.4	30490.4	30798.6	33441.5	31276.6	26575.4	28270.2
65°	30304.8	29897.9	29518.6	30063.8	33773.4	34077.6	36108.1	32378.8	26417.4	27413.0
67.5°	34678.0	34275.1	33808.9	34322.5	38608.9	38849.8	39399.0	32999.1	25173.0	24110.3
70°	38284.9	38134.8	38691.8	40805.4	46332.2	46340.1	43618.2	32485.5	21763.7	17094.1
72.5°	37806.9	37716.0	40651.3	47185.5	56066.4	55857.0	47612.2	28598.1	14660.5	7711.5
75°	31015.9	31604.5	36151.6	47071.0	59562.6	59535.0	45166.8	18180.5	6064.1	3196.0
77.5°	16631.9	17564.2	23470.3	34753.1	46498.1	47197.4	31754.6	6360.4	2603.4	2046.4
80°	5424.1	6237.9	9354.9	17694.6	30213.9	30083.5	13609.7	2496.8	1781.7	1449.9
82.5°	2303.2	2398.0	4179.7	8355.4	15506.0	15265.0	4333.8	1434.1	1252.3	991.6
85°	900.7	1007.4	1844.9	3863.7	6716.0	6569.8	1564.4	711.1	802.0	647.9
87.5°	296.3	359.5	659.7	1323.4	2089.8	2014.8	383.2	244.9	347.6	296.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944069  
 CATALOG NUMBER: GALN-SB8D-830-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9738.1	0°	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1	9738.1
9765.8	2.5°	9821.1	9884.3	9959.4	10070.0	10164.8	10243.8	10326.8	10378.1	10397.9	10457.1
9781.6	5°	9892.2	10030.5	10216.2	10397.9	10575.7	10682.3	10777.1	10824.5	10868.0	10899.6
9825.1	7.5°	10010.7	10188.5	10480.8	10717.9	10868.0	10954.9	11018.1	11002.3	11018.1	11026.0
9872.5	10°	10113.4	10362.3	10710.0	10935.2	11049.7	11053.7	11037.9	10982.6	10954.9	10958.9
9943.6	12.5°	10235.9	10512.4	10887.8	11077.4	11109.0	11022.1	10954.9	10860.1	10824.5	10808.7
10050.2	15°	10401.8	10717.9	11081.3	11152.4	11073.4	10962.8	10848.2	10694.2	10615.2	10552.0
10232.0	17.5°	10603.3	10951.0	11231.5	11180.1	11010.2	10828.5	10642.8	10409.7	10247.8	10180.6
10480.8	20°	10883.8	11195.9	11346.0	11120.8	10864.0	10587.5	10271.5	9987.0	9836.9	9769.7
10796.9	22.5°	11223.5	11523.8	11456.6	11018.1	10654.7	10212.2	9817.1	9607.8	9532.7	9485.3
11203.8	25°	11630.5	11887.2	11535.6	10868.0	10311.0	9714.4	9410.2	9343.1	9307.5	9272.0
11701.6	27.5°	12159.8	12298.1	11594.9	10646.8	9773.7	9185.1	9074.4	9086.3	9074.4	9015.2
12392.9	30°	12859.1	12831.4	11650.2	10287.3	9157.4	8707.0	8714.9	8766.3	8774.2	8734.7
13356.9	32.5°	13779.6	13499.1	11677.9	9821.1	8568.8	8288.3	8296.2	8351.5	8391.0	8323.8
14617.1	35°	14893.6	14277.3	11634.4	9236.4	8114.5	7889.3	7830.0	7845.8	7857.7	7794.5
16146.0	37.5°	16193.4	15150.4	11440.8	8588.5	7739.2	7498.2	7371.8	7265.1	7201.9	7142.6
17876.3	40°	17619.5	16102.5	11085.3	7956.4	7320.4	7083.4	6893.7	6692.3	6478.9	6399.9
19709.4	42.5°	19112.8	17082.2	10654.7	7352.0	6838.4	6644.8	6443.4	6151.0	5831.0	5669.1
21613.5	45°	20661.4	18085.7	10232.0	6755.5	6344.6	6261.6	6028.6	5677.0	5329.3	5123.9
23521.7	47.5°	22178.5	19033.8	9611.7	6155.0	5882.4	5973.3	5791.5	5467.6	5080.4	4756.5
25414.0	50°	23628.3	19922.7	8596.4	5546.6	5507.1	5886.3	5712.5	5246.3	4803.9	4389.1
27270.7	52.5°	25066.3	20641.7	7296.7	4993.5	5305.6	5862.6	5609.8	5096.2	4555.0	4120.4
29016.9	55°	26287.0	21013.0	6044.4	4519.4	5013.3	5661.2	5487.3	4918.5	4203.4	3741.2
30213.9	57.5°	26982.3	20712.8	5001.4	4053.3	4610.3	5329.3	5278.0	4539.2	3784.6	3429.1
30447.0	60°	26682.1	19496.0	4148.1	3646.4	4227.1	4969.8	4914.5	4163.9	3464.6	3128.8
29198.6	62.5°	25026.8	17177.0	3472.5	3290.8	3879.5	4602.4	4551.0	3875.5	3219.7	2895.8
25884.1	65°	21692.5	13973.1	2947.1	2994.5	3527.9	4159.9	4235.0	3634.5	3026.1	2710.1
20025.4	67.5°	16545.0	10121.3	2536.3	2737.7	3184.2	3725.4	3942.7	3460.7	2864.2	2563.9
11587.0	70°	9430.0	5748.1	2188.6	2488.9	2880.0	3322.4	3717.5	3322.4	2690.3	2441.4
4341.7	72.5°	3575.3	2639.0	1892.3	2240.0	2587.6	2982.7	3468.6	3105.1	2488.9	2303.2
2243.9	75°	1908.1	1607.9	1592.1	1947.6	2251.8	2650.8	3156.5	2891.8	2338.7	2433.5
1552.6	77.5°	1299.7	1137.8	1331.3	1667.1	1884.4	2283.4	2824.7	2567.9	2026.6	2018.7
1074.6	80°	900.7	805.9	1082.5	1343.2	1457.8	1920.0	2465.2	2204.4	1651.3	1540.7
663.7	82.5°	541.2	525.4	809.9	1003.4	1031.1	1481.5	2042.4	1848.9	1351.1	1177.3
395.1	85°	296.3	312.1	517.5	588.6	600.5	1035.0	1600.0	1430.1	1039.0	873.1
142.2	87.5°	83.0	106.7	189.6	233.1	288.4	537.3	952.1	849.4	521.5	363.5
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

180°  
9738.1  
10453.2  
10907.5  
11037.9  
10966.8  
10800.8  
10571.7  
10184.6  
9761.8  
9493.2  
9272.0  
9027.0  
8754.4  
8355.4  
7837.9  
7182.1  
6435.5  
5688.8  
5108.1  
4720.9  
4353.5  
4073.0  
3701.7  
3381.7  
3081.4  
2844.4  
2658.7  
2516.5  
2409.8  
2271.6  
*2512.6*  
1860.7  
1473.6  
1185.2  
881.0  
363.5  
0.0

F REPORT)