

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: P955728

Luminaire Tested: **GALN-SB8C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54308 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

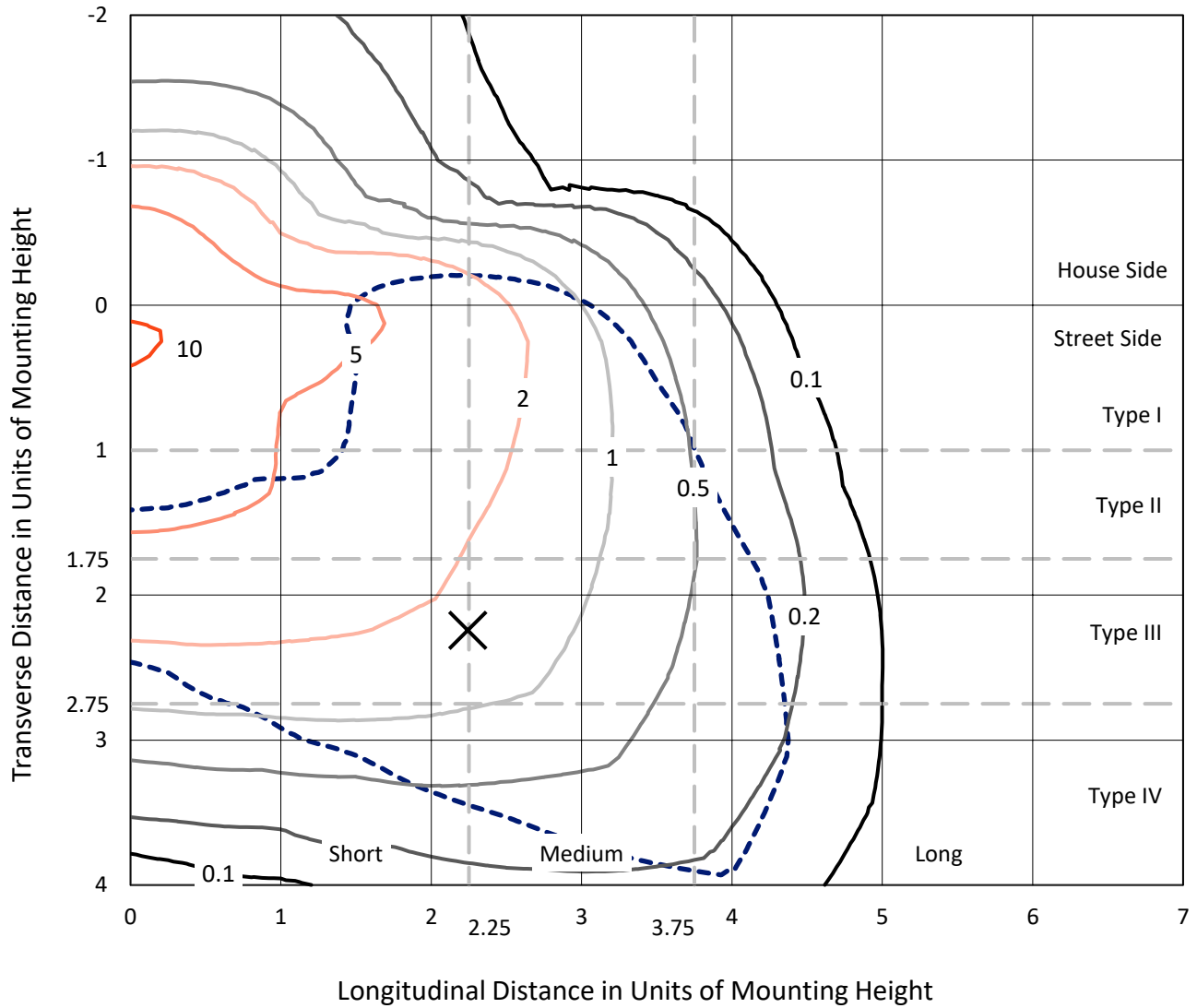
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955728
 CATALOG NUMBER: GALN-SB8C-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

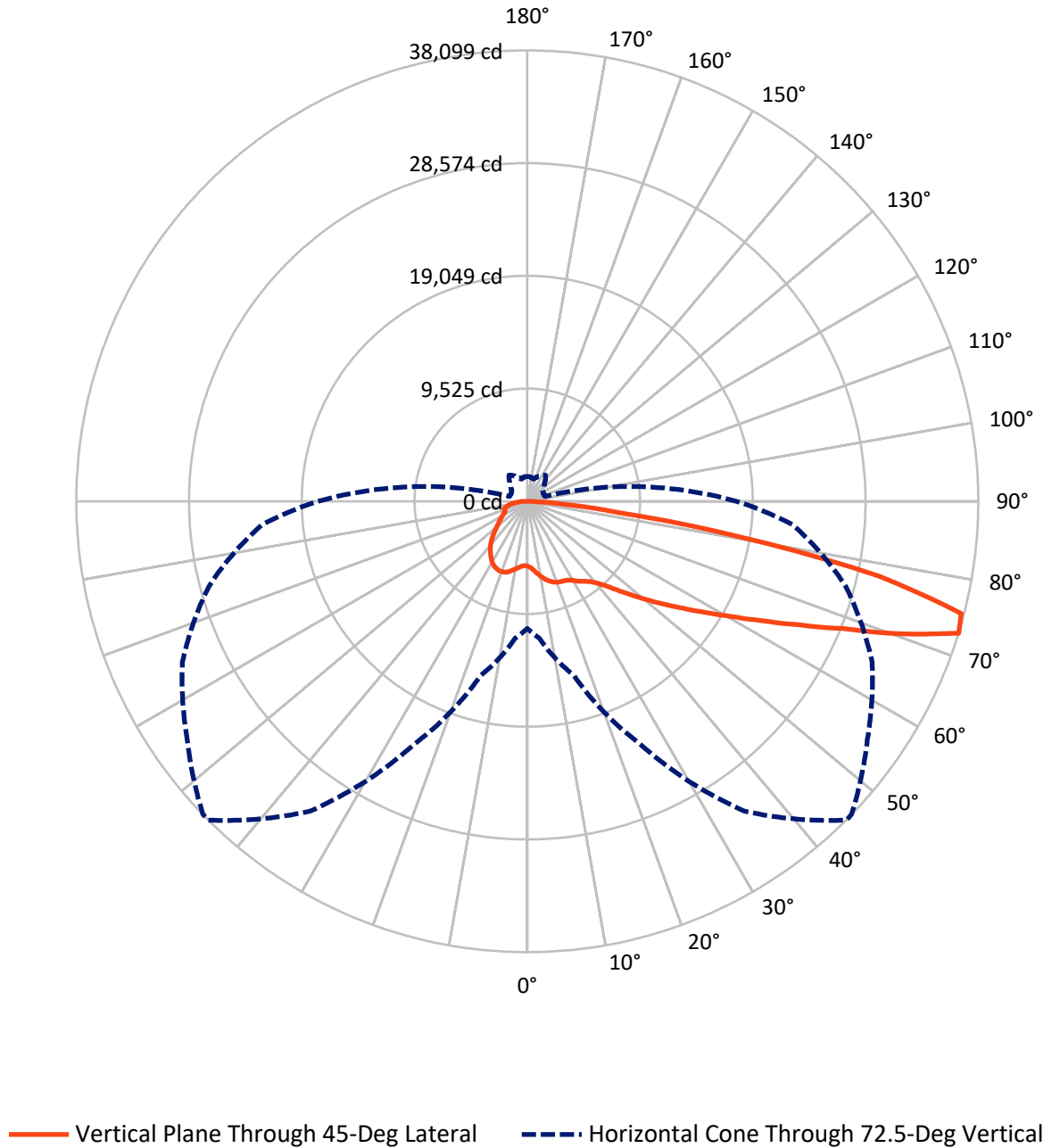
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P955728
CATALOG NUMBER: GALN-SB8C-830-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P955728

CATALOG NUMBER: GALN-SB8C-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12277.2	0.0	12277.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	42030.8	0.0	42030.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	54308.0	0.0	54308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.6	1.0
10°-20°	1859.2	3.4
20°-30°	3234.1	6.0
30°-40°	4636.3	8.5
40°-50°	6528.2	12.0
50°-60°	9999.2	18.4
60°-70°	14485.4	26.7
70°-80°	11567.4	21.3
80°-90°	1440.7	2.7
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°	54308.0	100.0
0°-180°	54308.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955728

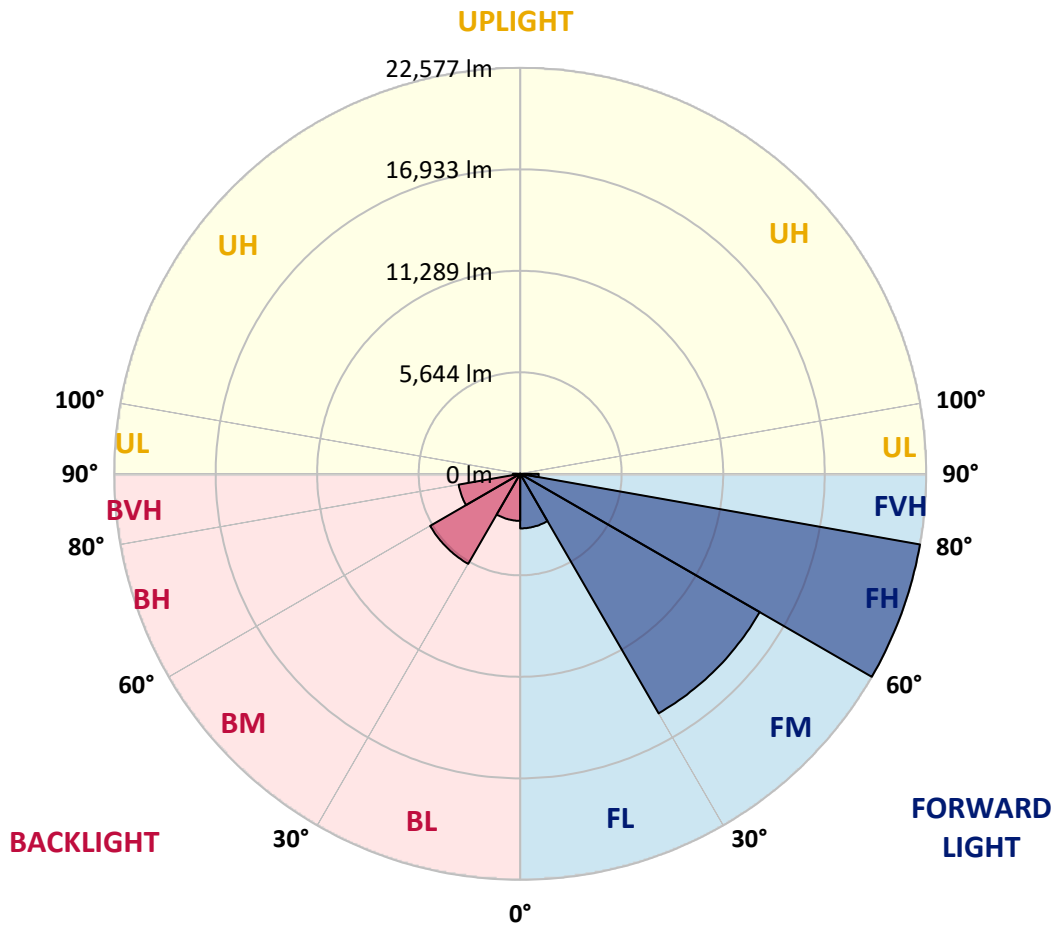
CATALOG NUMBER: GALN-SB8C-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3037.0	5.6			
FM (30°-60°)	15382.9	28.3			
FH (60°-80°)	22577.4	41.6			G5
FVH (80°-90°)	1033.6	1.9			G5
BL (0°-30°)	2613.9	4.8	B4/5000		
BM (30°-60°)	5780.8	10.6	B4/8500		
BH (60°-80°)	3475.3	6.4	B4/5000		G4/5000
BVH (80°-90°)	407.1	0.7			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 IV Short



REPORT NUMBER: P955728
 CATALOG NUMBER: GALN-SB8C-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6
2.5°	5693.2	5730.4	5696.0	5664.6	5650.3	5613.1	5610.2	5587.3	5573.0	5533.0
5°	6090.9	6139.5	6082.3	6019.3	5962.1	5870.6	5859.1	5793.3	5718.9	5633.1
7.5°	6540.0	6582.9	6517.1	6422.7	6322.6	6171.0	6168.1	6047.9	5930.6	5784.7
10°	6932.0	6989.2	6900.5	6771.7	6645.9	6474.2	6454.2	6316.9	6168.1	5979.3
12.5°	7278.1	7318.2	7232.4	7075.0	6929.1	6757.4	6731.7	6580.1	6414.1	6199.6
15°	7552.8	7604.3	7489.8	7321.0	7166.6	6997.8	6974.9	6837.5	6671.6	6445.6
17.5°	7733.0	7775.9	7658.6	7469.8	7321.0	7180.9	7163.7	7049.3	6903.3	6674.5
20°	7801.7	7847.4	7724.4	7532.7	7395.4	7286.7	7278.1	7195.2	7095.0	6886.2
22.5°	7870.3	7913.2	7753.0	7552.8	7432.6	7364.0	7361.1	7306.7	7266.7	7095.0
25°	8147.8	8159.3	7944.7	7655.8	7484.1	7424.0	7421.2	7418.3	7435.5	7301.0
27.5°	8388.2	8385.3	8202.2	7930.4	7664.3	7538.5	7535.6	7564.2	7618.6	7507.0
30°	8740.0	8708.6	8491.1	8207.9	7964.7	7770.2	7753.0	7727.3	7770.2	7681.5
32.5°	9486.7	9386.6	9034.7	8531.2	8213.6	8064.9	8042.0	7881.8	7898.9	7844.6
35°	10556.7	10425.1	9955.9	9143.4	8522.6	8310.9	8299.5	8096.3	8062.0	8013.4
37.5°	11829.8	11666.7	11120.3	10030.3	9054.7	8597.0	8579.8	8396.7	8256.6	8205.1
40°	13108.6	12902.7	12450.6	11111.7	9838.6	9074.8	9020.4	8742.9	8582.7	8496.9
42.5°	14350.3	14178.6	13792.4	12324.7	10805.6	9772.8	9652.7	9177.8	9057.6	8977.5
45°	15448.9	15294.4	15011.1	13620.7	11938.5	10722.6	10605.3	9830.0	9792.9	9792.9
47.5°	16341.5	16307.1	16006.7	14942.5	13274.6	11804.1	11600.9	10737.0	10837.1	10991.6
50°	17331.3	17236.9	16916.5	16244.2	14845.2	13042.8	12876.9	11849.8	12224.6	12648.0
52.5°	18241.1	18292.6	17935.0	17600.2	16619.0	14424.6	14132.8	13163.0	13972.6	14673.5
55°	19176.6	19179.5	19079.3	19033.6	18478.5	15952.4	15631.9	14742.2	16029.6	16899.3
57.5°	20054.9	20060.6	20209.4	20612.8	20635.7	17714.7	17351.3	16681.9	18315.5	19202.3
60°	20838.8	20878.8	21285.1	22229.2	22532.4	19734.5	19391.2	18973.5	20678.6	21571.2
62.5°	21102.0	21247.9	22151.9	23493.7	24406.3	22212.0	21874.4	21625.5	23161.8	23991.5
65°	20655.7	20990.4	22738.4	24537.9	26334.6	25155.9	24821.2	24549.4	25742.4	26523.4
67.5°	19560.0	19992.0	22704.1	25633.6	28674.8	28697.7	28385.8	27747.9	28508.9	28809.2
70°	16673.3	17319.9	20704.3	26042.8	31361.2	33541.2	33240.8	31598.6	31269.6	29816.3
72.5°	10742.7	11612.4	15245.7	22675.5	31959.1	38098.6	38081.4	35074.6	32142.2	27859.4
75°	3919.4	4451.6	7083.6	14233.0	26826.6	37866.8	37978.4	34479.5	29341.4	21519.7
77.5°	1427.6	1562.1	2311.6	5470.0	16498.8	30382.7	30614.5	27564.8	20884.6	10799.9
80°	749.6	823.9	1184.4	2122.8	7069.3	18043.7	18407.0	16381.5	9815.7	3252.8
82.5°	414.8	449.2	663.7	1152.9	3184.2	7715.8	7933.3	6471.4	3453.1	1379.0
85°	223.2	237.5	311.8	629.4	1556.3	2674.9	2735.0	1934.0	1376.1	809.6
87.5°	65.8	80.1	103.0	200.3	609.4	600.8	615.1	383.4	543.6	409.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955728
 CATALOG NUMBER: GALN-SB8C-830-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5478.6	0°	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6
5521.5	2.5°	5504.4	5495.8	5464.3	5450.0	5432.8	5430.0	5444.3	5447.2	5450.0	5452.9
5584.5	5°	5555.9	5527.3	5498.6	5481.5	5487.2	5490.1	5518.7	5538.7	5553.0	5564.4
5701.8	7.5°	5656.0	5633.1	5584.5	5581.6	5590.2	5615.9	5653.1	5698.9	5724.7	5744.7
5853.4	10°	5804.8	5761.8	5704.6	5713.2	5730.4	5767.6	5844.8	5882.0	5924.9	5962.1
6039.4	12.5°	5956.4	5919.2	5853.4	5859.1	5887.7	5953.5	6027.9	6073.7	6102.3	6130.9
6239.6	15°	6153.8	6088.0	6016.5	6016.5	6068.0	6139.5	6173.8	6211.0	6228.2	6259.6
6454.2	17.5°	6356.9	6271.1	6176.7	6171.0	6233.9	6268.2	6288.3	6294.0	6299.7	6334.0
6663.0	20°	6560.0	6465.6	6331.2	6319.7	6334.0	6328.3	6325.4	6319.7	6328.3	6371.2
6877.6	22.5°	6760.3	6651.6	6465.6	6414.1	6374.1	6319.7	6316.9	6314.0	6319.7	6362.6
7109.3	25°	6994.9	6863.3	6614.4	6459.9	6325.4	6251.1	6259.6	6262.5	6268.2	6302.6
7349.6	27.5°	7249.5	7103.6	6751.7	6445.6	6202.4	6150.9	6136.6	6145.2	6165.2	6219.6
7590.0	30°	7504.1	7332.5	6877.6	6388.4	6047.9	5976.4	5930.6	5950.7	6013.6	6068.0
7798.8	32.5°	7735.9	7564.2	6977.7	6262.5	5850.5	5739.0	5678.9	5704.6	5767.6	5787.6
8030.5	35°	8007.7	7813.1	7020.6	6062.2	5636.0	5464.3	5384.2	5347.0	5378.5	5358.5
8302.3	37.5°	8310.9	8107.8	7014.9	5799.0	5384.2	5186.8	5075.2	4935.0	4869.2	4800.6
8702.9	40°	8760.1	8468.3	6946.3	5481.5	5072.4	4892.1	4691.9	4454.4	4305.7	4171.2
9349.4	42.5°	9372.3	8968.9	6820.4	5132.5	4720.5	4551.7	4279.9	4002.4	3767.8	3544.7
10330.7	45°	10284.9	9624.1	6663.0	4760.5	4340.0	4174.1	3879.4	3567.5	3301.5	3015.4
11724.0	47.5°	11600.9	10505.2	6514.3	4337.1	3939.5	3787.8	3521.8	3232.8	2918.1	2640.6
13738.0	50°	13409.0	11769.7	6376.9	3925.2	3544.7	3430.2	3218.5	2923.8	2606.3	2383.1
16098.3	52.5°	15709.2	13489.1	6319.7	3527.5	3175.6	3132.7	2963.9	2689.2	2388.9	2200.0
18850.5	55°	18349.8	15546.1	6319.7	3147.0	2852.3	2866.6	2749.3	2494.7	2234.4	2065.6
21688.5	57.5°	21044.8	17628.9	6205.3	2795.1	2577.7	2637.7	2563.4	2340.2	2105.6	1931.1
24672.4	60°	23528.0	19374.0	5741.8	2474.7	2334.5	2428.9	2380.3	2188.6	1902.5	1756.6
27167.1	62.5°	25436.2	20358.2	4849.2	2220.1	2134.2	2242.9	2217.2	1988.3	1865.3	1805.2
29215.5	65°	26391.8	20197.9	3707.7	1994.0	1965.4	2134.2	2079.9	2071.3	1974.0	1905.4
29882.1	67.5°	25805.3	18819.0	2689.2	1828.1	1868.2	2034.1	2242.9	2277.3	2097.0	1962.6
28005.3	70°	23233.4	16324.3	2002.6	1670.8	1745.1	2037.0	2557.6	2383.1	2057.0	1899.6
22460.9	72.5°	17674.6	12173.1	1553.5	1504.8	1584.9	2051.3	2697.8	2334.5	1942.5	2099.9
13992.7	75°	10107.6	6683.1	1247.4	1301.7	1384.7	1916.8	2626.3	2208.6	1853.9	1928.2
5544.4	77.5°	3853.6	2569.1	1029.9	1101.4	1112.9	1673.6	2511.9	2200.0	1765.2	1722.3
1662.2	80°	1336.0	1004.2	852.5	875.4	861.1	1487.7	2408.9	1913.9	1444.8	1293.1
686.6	82.5°	546.4	500.7	675.2	646.6	612.2	1155.8	1945.4	1564.9	1181.6	1044.2
331.9	85°	237.5	317.6	446.3	391.9	354.8	801.1	1559.2	1324.6	998.5	861.1
108.7	87.5°	48.6	120.2	188.8	177.4	183.1	535.0	1107.2	941.2	706.6	529.3
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°
5478.6
5464.3
5570.2
5750.4
5953.5
6142.3
6271.1
6345.5
6388.4
6391.2
6348.3
6273.9
6128.0
5859.1
5421.4
4843.5
4179.8
3524.6
2981.1
2609.1
2368.8
2185.7
2048.4
1902.5
1733.7
1785.2
1882.5
1939.7
1873.9
2082.7
1928.2
1570.6
1250.2
1032.8
858.3
414.8
0.0

F REPORT)