

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: P956940

Luminaire Tested: **GALN-SB9B-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37856 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

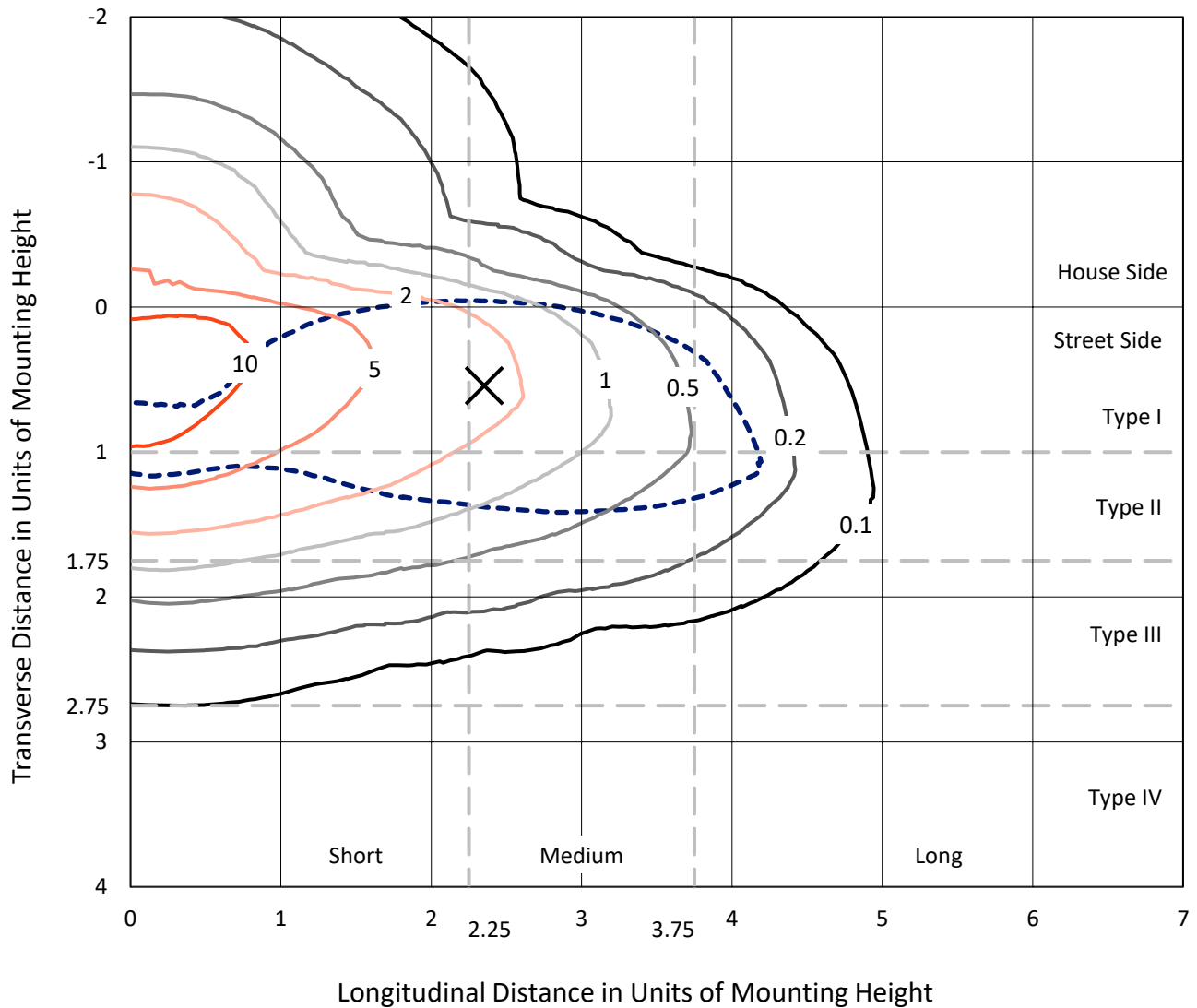
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956940
 CATALOG NUMBER: GALN-SB9B-940-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

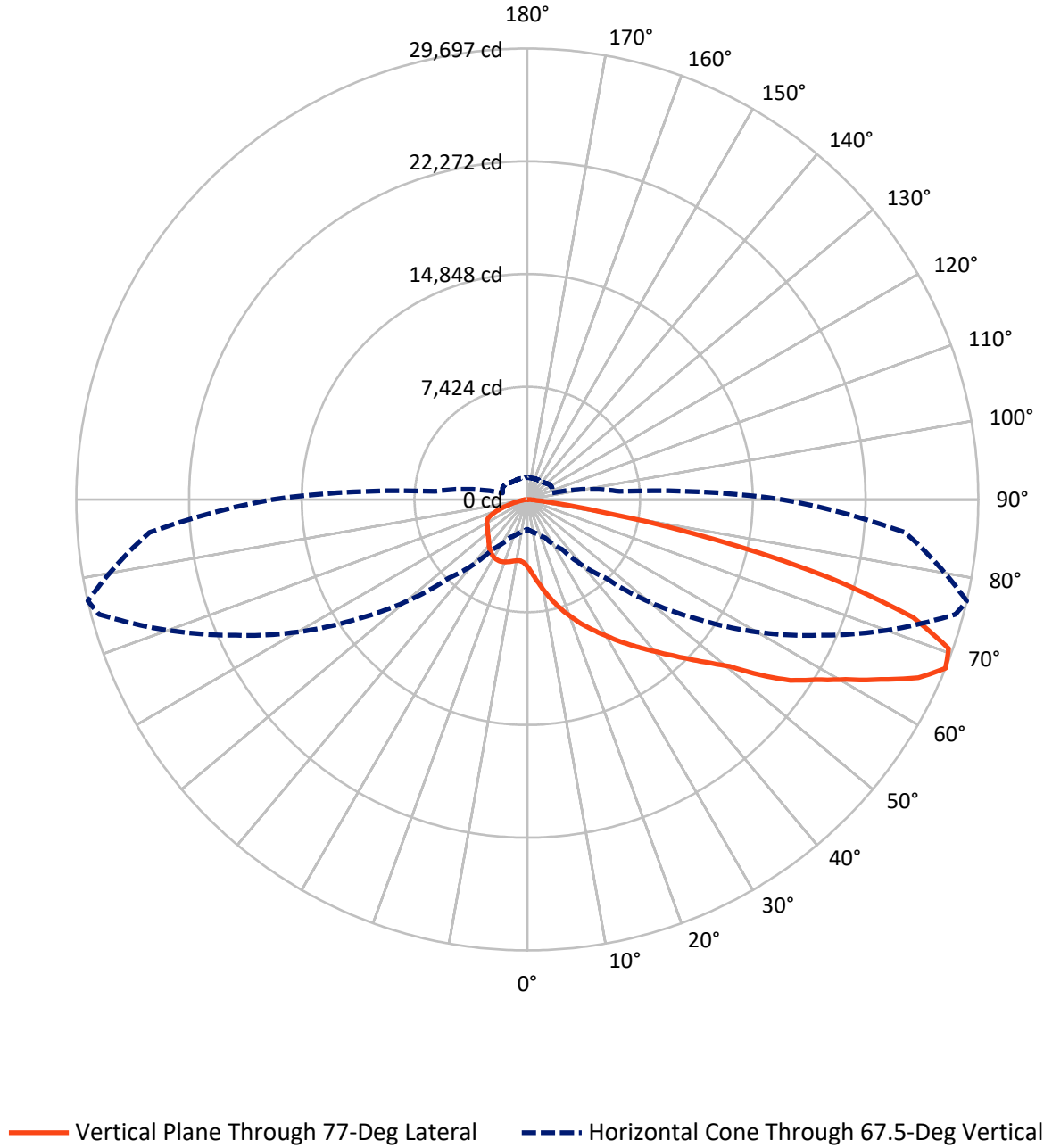
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P956940
CATALOG NUMBER: GALN-SB9B-940-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P956940
 CATALOG NUMBER: GALN-SB9B-940-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7160.8	0.0	7160.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	30695.2	0.0	30695.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	37856.0	0.0	37856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.1	1.3
10°-20°	1710.4	4.5
20°-30°	3229.4	8.5
30°-40°	5202.5	13.7
40°-50°	7116.1	18.8
50°-60°	8027.0	21.2
60°-70°	7492.2	19.8
70°-80°	4107.0	10.8
80°-90°	495.4	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°	37856.0	100.0
0°-180°	37856.0	100.0

Coefficient of Utilization



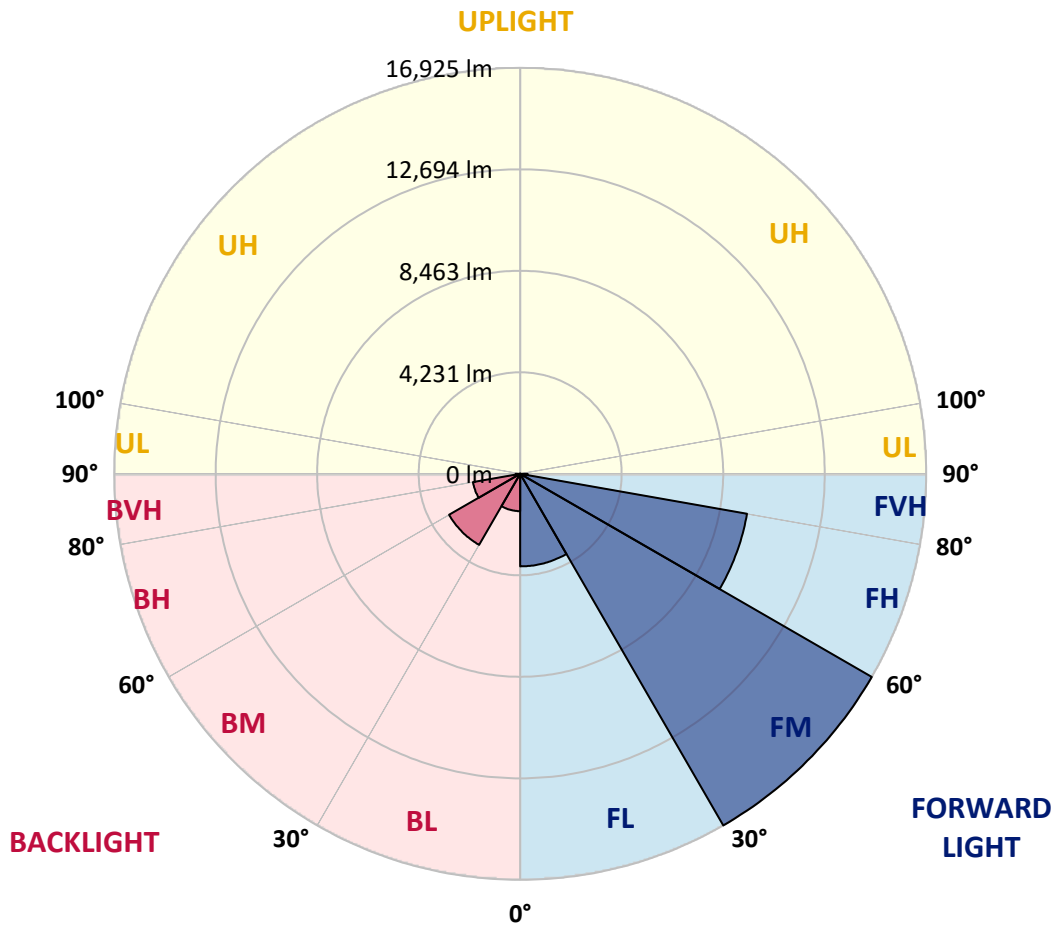
REPORT NUMBER: P956940
 CATALOG NUMBER: GALN-SB9B-940-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3858.9	10.2			
FM (30°-60°)	16925.0	44.7			
FH (60°-80°)	9601.4	25.4			G4/12000
FVH (80°-90°)	309.8	0.8			G3/500
BL (0°-30°)	1556.9	4.1	B3/2500		
BM (30°-60°)	3420.6	9.0	B3/5000		
BH (60°-80°)	1997.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	185.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



REPORT NUMBER: P956940
 CATALOG NUMBER: GALN-SB9B-940-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7
2.5°	5561.4	5600.5	5551.6	5551.6	5387.5	5301.5	5137.3	5012.3	4787.6	4748.5
5°	6573.6	6622.5	6554.1	6524.8	6331.3	6153.5	5878.0	5606.3	5205.7	5164.7
7.5°	7357.2	7419.7	7359.2	7327.9	7155.9	6956.6	6634.2	6255.1	5690.4	5610.2
10°	7996.2	8006.0	7986.4	7998.2	7863.3	7699.2	7368.9	6927.3	6221.9	6112.4
12.5°	8357.7	8402.7	8441.7	8512.1	8488.6	8387.0	8090.0	7562.4	6784.7	6644.0
15°	8527.7	8605.9	8693.8	8856.0	8986.9	9012.3	8785.7	8244.4	7357.2	7187.2
17.5°	8588.3	8662.6	8801.3	9035.8	9317.2	9506.7	9405.1	8906.8	7923.9	7728.5
20°	8895.1	8916.6	9000.6	9223.4	9528.2	9842.8	9919.0	9543.9	8484.7	8263.9
22.5°	9551.7	9508.7	9532.1	9633.7	9852.6	10157.4	10331.4	10106.6	9061.2	8807.2
25°	10636.2	10511.1	10386.1	10268.8	10380.2	10552.2	10749.5	10669.4	9665.0	9342.6
27.5°	12006.0	11853.6	11578.1	11193.1	11058.3	11118.9	11206.8	11191.2	10223.9	9897.6
30°	13354.4	13176.5	12848.3	12291.3	11935.7	11775.4	11709.0	11664.1	10831.6	10483.8
32.5°	14431.1	14290.4	13968.0	13344.6	12828.7	12555.1	12334.3	12174.1	11466.7	11118.9
35°	15373.0	15242.0	14872.7	14192.7	13631.8	13340.7	13051.5	12709.5	12127.2	11775.4
37.5°	16232.8	16101.8	15595.7	14888.3	14323.6	14122.3	13864.4	13284.0	12789.6	12457.4
40°	16776.0	16746.7	16273.8	15472.6	14886.4	14786.7	14700.7	13950.4	13524.4	13215.6
42.5°	16914.7	16979.2	16604.0	15945.5	15386.6	15306.5	15507.8	14704.7	14349.0	14053.9
45°	16580.6	16766.2	16520.0	16072.5	15742.3	15699.3	16223.0	15529.3	15261.6	14991.9
47.5°	15734.5	16049.1	15947.5	15884.9	15838.0	16023.7	16852.2	16404.7	16295.3	16060.8
50°	14026.6	14622.6	14800.4	15195.1	15648.5	16275.8	17424.8	17360.3	17502.9	17266.5
52.5°	11073.9	11894.6	12926.4	13915.2	15066.2	16191.7	18054.0	18732.1	19333.9	19205.0
55°	9141.3	9510.6	10304.0	12117.4	13936.7	15838.0	18337.3	19840.0	21151.3	21036.0
57.5°	7656.2	7986.4	8475.0	9989.4	12228.8	15034.9	18513.2	20516.2	22396.0	22384.3
60°	6063.6	6413.4	6913.6	7986.4	10233.7	13647.5	18474.1	21286.1	23984.7	24082.4
62.5°	4265.8	4650.8	5205.7	6206.2	8195.5	11849.7	17676.9	21843.0	25854.8	26120.5
65°	2804.1	3058.2	3476.4	4340.1	6106.6	9538.0	16154.6	21915.3	27855.8	28305.2
67.5°	1965.8	2063.5	2309.8	2778.7	4025.5	7314.2	13729.6	21166.9	29190.4	29696.6
70°	1534.0	1582.8	1707.9	1895.5	2528.6	4918.5	10520.9	19220.6	28905.1	29432.8
72.5°	1324.9	1371.8	1418.7	1442.1	1696.2	3036.7	7126.6	16070.6	26218.3	26575.9
75°	1201.8	1213.5	1252.6	1244.8	1293.6	1969.7	4113.4	11709.0	20686.2	20563.1
77.5°	1010.3	1025.9	1090.4	1080.6	1149.0	1346.4	2135.8	7556.5	13411.0	12574.7
80°	855.9	863.7	934.1	922.3	998.5	975.1	1090.4	3851.5	5688.4	4818.8
82.5°	297.0	367.4	713.2	734.7	762.1	590.1	629.2	1571.1	1737.2	1330.7
85°	144.6	154.4	363.5	515.9	513.9	297.0	306.8	560.8	547.1	429.9
87.5°	23.4	29.3	43.0	201.3	160.2	78.2	105.5	109.4	113.3	97.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956940
 CATALOG NUMBER: GALN-SB9B-940-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4441.7	0°	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7	4441.7
4600.0	2.5°	4490.5	4392.8	4187.7	3998.1	3849.6	3706.9	3626.8	3558.4	3519.3	3511.5
4814.9	5°	4611.7	4410.4	4037.2	3722.6	3517.4	3365.0	3284.9	3234.0	3208.6	3193.0
5104.1	7.5°	4785.6	4490.5	3959.0	3601.4	3386.5	3277.0	3236.0	3228.2	3226.2	3228.2
5453.9	10°	5026.0	4621.5	3951.2	3572.1	3392.3	3331.8	3329.8	3331.8	3339.6	3341.5
5835.0	12.5°	5285.9	4756.3	3982.5	3597.5	3466.6	3433.4	3427.5	3425.5	3431.4	3435.3
6219.9	15°	5569.2	4934.1	4035.2	3652.2	3548.7	3513.5	3507.6	3495.9	3493.9	3492.0
6624.4	17.5°	5860.4	5110.0	4093.9	3710.8	3601.4	3552.6	3531.1	3503.7	3482.2	3476.4
7042.6	20°	6155.4	5283.9	4134.9	3740.2	3605.3	3536.9	3493.9	3447.0	3409.9	3388.4
7464.7	22.5°	6470.0	5465.6	4160.3	3732.3	3570.2	3476.4	3398.2	3343.5	3286.8	3249.7
7890.7	25°	6776.8	5623.9	4158.3	3691.3	3501.8	3382.6	3282.9	3212.6	3134.4	3095.3
8330.4	27.5°	7071.9	5766.6	4109.5	3619.0	3404.1	3271.2	3152.0	3067.9	2991.7	2954.6
8773.9	30°	7376.8	5885.8	4033.3	3513.5	3288.8	3142.2	3011.3	2939.0	2870.6	2835.4
9242.9	32.5°	7679.6	5995.2	3925.8	3382.6	3155.9	3015.2	2886.2	2819.8	2778.7	2778.7
9747.1	35°	8000.1	6071.4	3783.2	3230.1	3015.2	2880.4	2778.7	2739.7	2735.7	2712.3
10280.6	37.5°	8338.2	6120.3	3609.2	3073.8	2876.4	2749.4	2718.2	2671.3	2632.2	2581.4
10866.8	40°	8693.8	6169.1	3400.1	2911.6	2729.9	2659.5	2645.9	2583.3	2471.9	2346.9
11531.2	42.5°	9125.7	6202.3	3183.2	2749.4	2575.5	2552.1	2571.6	2464.1	2286.3	2192.5
12332.4	45°	9625.9	6257.1	2983.9	2589.2	2417.2	2417.2	2499.3	2358.6	2212.0	2153.4
13246.9	47.5°	10274.7	6384.1	2798.3	2413.3	2270.7	2309.8	2339.1	2231.6	2149.5	2077.2
14360.7	50°	11212.7	6688.9	2606.8	2235.5	2159.3	2237.5	2196.4	2133.9	2038.1	1979.5
16131.2	52.5°	12377.3	6868.7	2436.8	2075.3	2063.5	2141.7	2083.1	2024.5	1952.2	1874.0
17473.6	55°	13170.7	6901.9	2294.1	1958.0	1999.1	1991.2	1969.7	1917.0	1877.9	1774.3
18798.5	57.5°	14057.8	6968.3	2176.9	1887.7	1958.0	1872.0	1864.2	1819.3	1768.5	1698.1
20414.6	60°	15118.9	7071.9	2075.3	1860.3	1922.8	1793.9	1754.8	1737.2	1686.4	1651.2
22358.9	62.5°	16275.8	7165.7	1971.7	1864.2	1881.8	1717.7	1659.0	1653.2	1621.9	1610.2
24184.0	65°	17065.2	6909.7	1842.7	1860.3	1817.3	1639.5	1565.2	1563.3	1537.9	1534.0
24975.4	67.5°	16789.7	6098.8	1668.8	1805.6	1750.9	1561.3	1479.3	1471.4	1438.2	1440.2
24148.9	70°	15410.1	4941.9	1428.5	1670.8	1668.8	1491.0	1389.4	1364.0	1319.0	1326.8
20996.9	72.5°	12822.8	3662.0	1106.0	1446.0	1537.9	1426.5	1285.8	1244.8	1188.1	1195.9
15500.0	75°	9260.5	2489.5	805.1	1100.2	1338.6	1350.3	1184.2	1113.8	1045.4	1057.2
8627.4	77.5°	4738.7	1410.9	592.1	758.2	1051.3	1227.2	1092.3	998.5	982.9	1092.3
2487.6	80°	1545.7	707.4	410.4	531.5	689.8	1004.4	957.5	850.0	846.1	871.5
521.7	82.5°	461.2	299.0	263.8	349.8	381.1	769.9	826.6	642.9	553.0	582.3
173.9	85°	158.3	144.6	150.5	173.9	181.7	451.4	578.4	426.0	402.5	443.6
39.1	87.5°	37.1	50.8	43.0	39.1	39.1	109.4	224.7	177.8	246.2	164.1
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°
4441.7
3511.5
3191.1
3234.0
3343.5
3437.3
3490.0
3482.2
3396.2
3251.6
3095.3
2952.7
2833.5
2780.7
2706.4
2573.6
2329.3
2194.5
2163.2
2075.3
1973.6
1858.4
1776.3
1674.7
1661.0
1610.2
1532.0
1440.2
1334.7
1194.0
1061.1
1076.7
748.4
601.9
437.7
158.3
0.0

F REPORT)