

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: P952845

Luminaire Tested: **GALN-SB6C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952845
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-SB6C-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40223 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

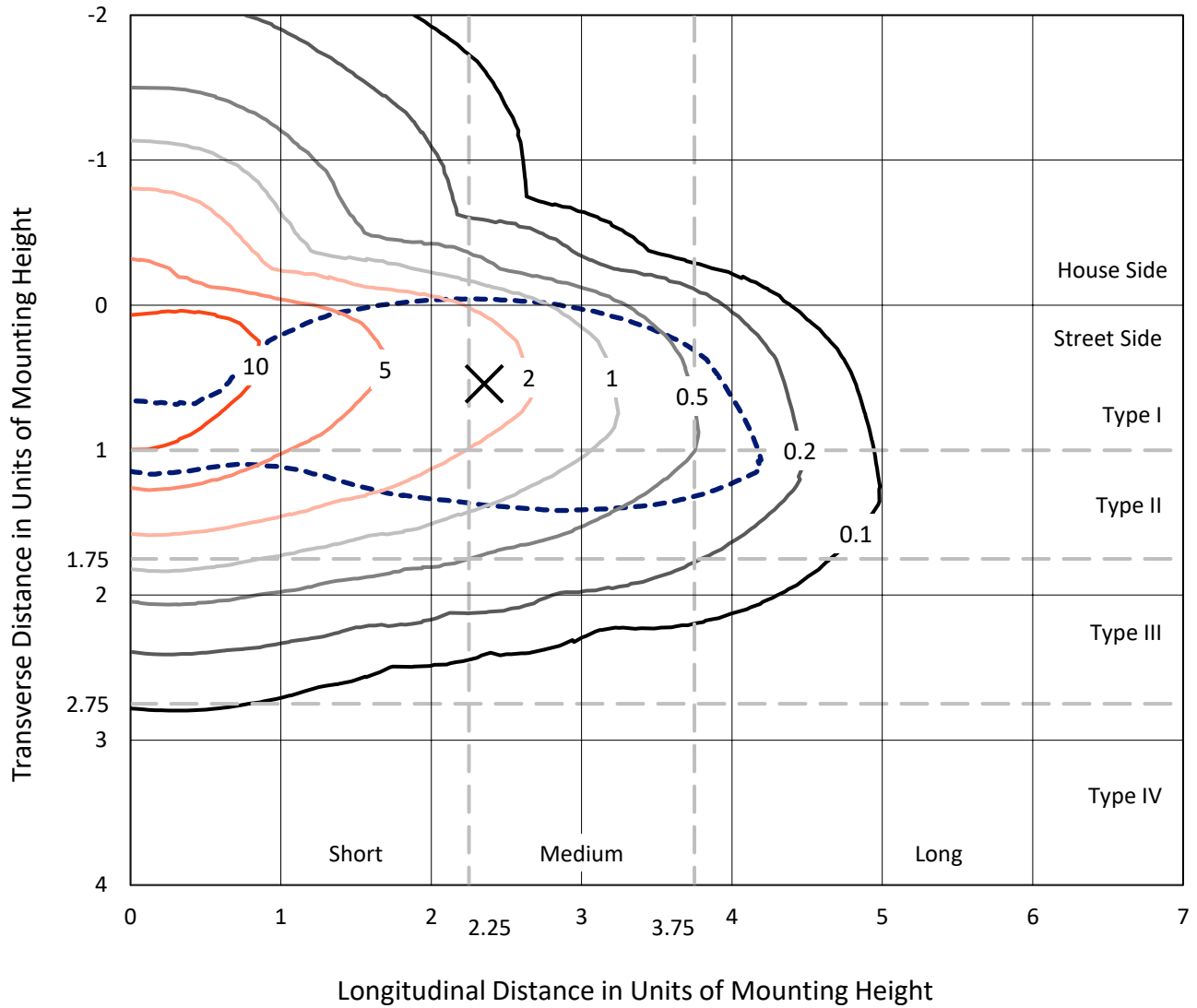
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952845
 CATALOG NUMBER: GALN-SB6C-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

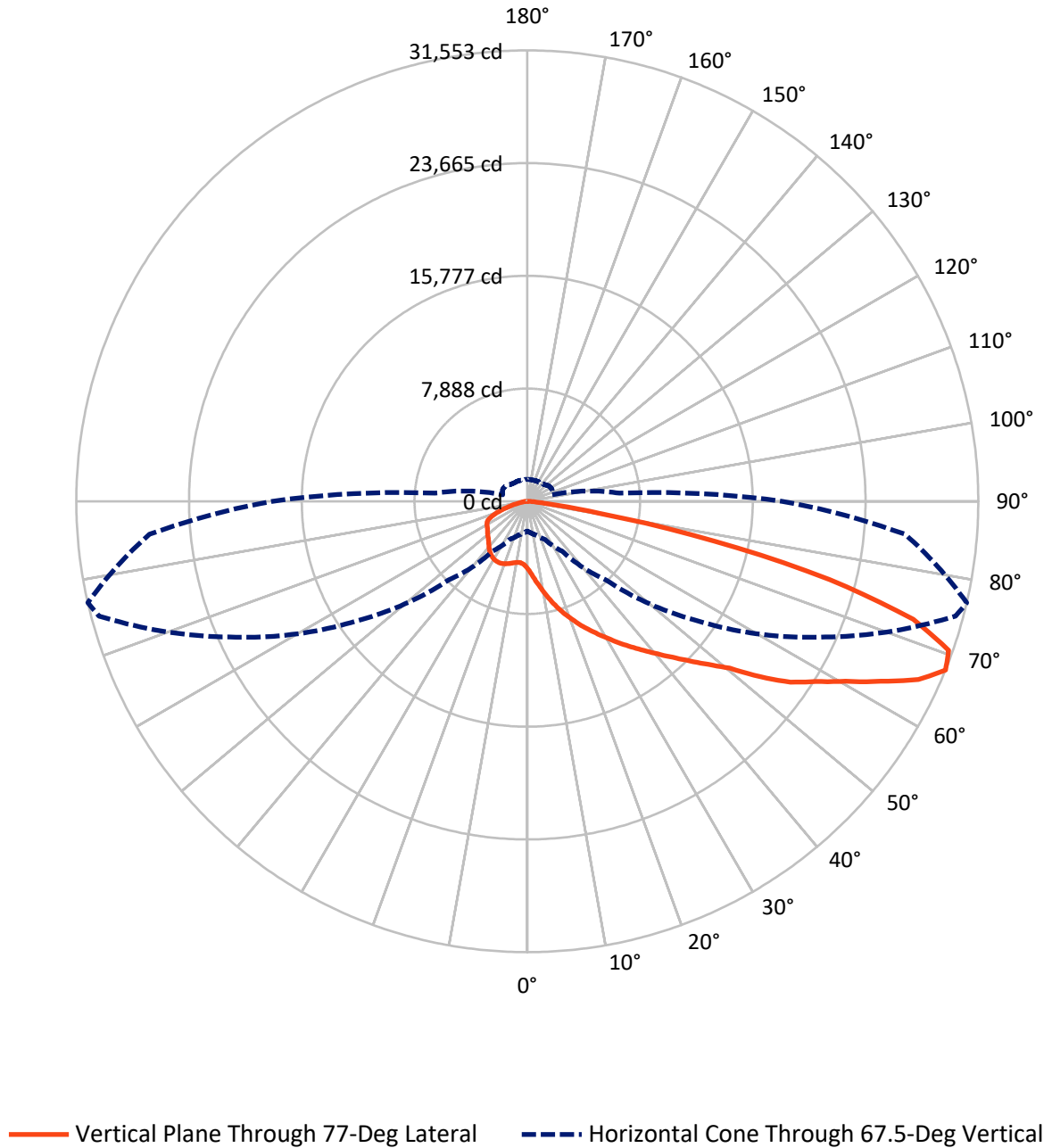
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P952845
CATALOG NUMBER: GALN-SB6C-827-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P952845
 CATALOG NUMBER: GALN-SB6C-827-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7608.6	0.0	7608.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	32614.4	0.0	32614.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	40223.0	0.0	40223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.9	1.3
10°-20°	1817.3	4.5
20°-30°	3431.3	8.5
30°-40°	5527.8	13.7
40°-50°	7561.0	18.8
50°-60°	8528.9	21.2
60°-70°	7960.6	19.8
70°-80°	4363.8	10.8
80°-90°	526.4	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°	40223.0	100.0
0°-180°	40223.0	100.0

Coefficient of Utilization



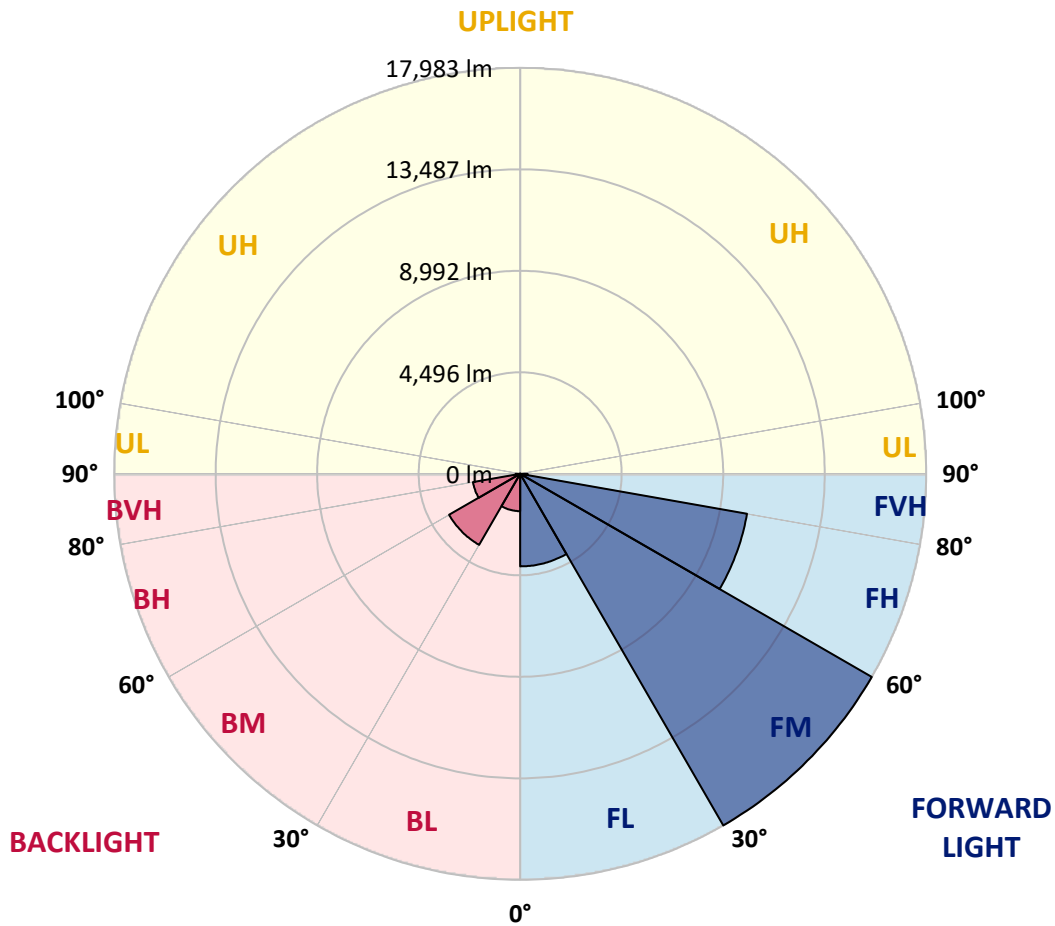
REPORT NUMBER: P952845
 CATALOG NUMBER: GALN-SB6C-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4100.2	10.2			
FM (30°-60°)	17983.3	44.7			
FH (60°-80°)	10201.7	25.4			G4/12000
FVH (80°-90°)	329.2	0.8			G3/500
BL (0°-30°)	1654.3	4.1	B3/2500		
BM (30°-60°)	3634.4	9.0	B3/5000		
BH (60°-80°)	2122.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	197.2	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: P952845
 CATALOG NUMBER: GALN-SB6C-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4
2.5°	5909.1	5950.6	5898.7	5898.7	5724.3	5633.0	5458.6	5325.7	5086.9	5045.4
5°	6984.6	7036.5	6963.9	6932.7	6727.2	6538.2	6245.5	5956.9	5531.2	5487.6
7.5°	7817.2	7883.7	7819.3	7786.1	7603.4	7391.6	7049.0	6646.2	6046.2	5961.0
10°	8496.2	8506.6	8485.8	8498.3	8355.0	8180.6	7829.7	7360.4	6610.9	6494.6
12.5°	8880.3	8928.0	8969.6	9044.3	9019.4	8911.4	8595.8	8035.2	7208.9	7059.4
15°	9060.9	9144.0	9237.4	9409.7	9548.9	9575.9	9335.0	8759.9	7817.2	7636.6
17.5°	9125.3	9204.2	9351.6	9600.8	9899.8	10101.2	9993.2	9463.7	8419.4	8211.7
20°	9451.3	9474.1	9563.4	9800.1	10124.0	10458.3	10539.2	10140.6	9015.3	8780.6
22.5°	10148.9	10103.2	10128.1	10236.1	10468.7	10792.6	10977.3	10738.6	9627.8	9357.8
25°	11301.2	11168.4	11035.5	10910.9	11029.3	11212.0	11421.7	11336.5	10269.3	9926.7
27.5°	12756.7	12594.8	12302.0	11893.0	11749.7	11814.1	11907.5	11890.9	10863.2	10516.4
30°	14189.4	14000.4	13651.6	13059.9	12682.0	12511.7	12441.1	12393.4	11508.9	11139.3
32.5°	15333.4	15183.9	14841.3	14179.0	13630.8	13340.2	13105.5	12935.3	12183.7	11814.1
35°	16334.2	16195.1	15802.6	15080.1	14484.2	14174.8	13867.5	13504.2	12885.5	12511.7
37.5°	17247.7	17108.6	16570.9	15819.3	15219.2	15005.3	14731.3	14114.6	13589.3	13236.3
40°	17825.0	17793.8	17291.3	16440.1	15817.2	15711.3	15619.9	14822.6	14370.0	14042.0
42.5°	17972.4	18040.9	17642.2	16942.5	16348.7	16263.6	16477.4	15624.1	15246.2	14932.7
45°	17617.3	17814.6	17553.0	17077.5	16726.6	16680.9	17237.4	16500.3	16215.8	15929.3
47.5°	16718.3	17052.6	16944.6	16878.2	16828.3	17025.6	17905.9	17430.5	17314.2	17065.0
50°	14903.6	15536.9	15725.8	16145.2	16626.9	17293.4	18514.3	18445.8	18597.3	18346.1
52.5°	11766.3	12638.4	13734.7	14785.3	16008.2	17204.1	19182.8	19903.3	20542.8	20405.8
55°	9712.9	10105.3	10948.3	12875.1	14808.1	16828.3	19483.9	21080.6	22473.8	22351.3
57.5°	8134.9	8485.8	9004.9	10614.0	12993.4	15975.0	19670.8	21799.0	23796.4	23783.9
60°	6442.7	6814.4	7345.9	8485.8	10873.5	14500.8	19629.2	22617.0	25484.4	25588.2
62.5°	4532.5	4941.6	5531.2	6594.3	8708.0	12590.6	18782.1	23208.8	27471.4	27753.8
65°	2979.5	3249.4	3693.7	4611.4	6488.4	10134.4	17164.7	23285.6	29597.5	30075.1
67.5°	2088.7	2192.6	2454.2	2952.5	4277.2	7771.6	14588.0	22490.4	31015.6	31553.4
70°	1629.9	1681.8	1814.7	2014.0	2686.7	5226.0	11178.7	20422.4	30712.5	31273.1
72.5°	1407.7	1457.6	1507.4	1532.3	1802.2	3226.6	7572.2	17075.4	27857.6	28237.5
75°	1276.9	1289.4	1330.9	1322.6	1374.5	2092.9	4370.6	12441.1	21979.6	21848.8
77.5°	1073.4	1090.1	1158.6	1148.2	1220.9	1430.6	2269.4	8029.0	14249.6	13360.9
80°	909.4	917.7	992.5	980.0	1061.0	1036.1	1158.6	4092.4	6044.1	5120.1
82.5°	315.6	390.3	757.8	780.7	809.8	627.0	668.6	1669.3	1845.8	1414.0
85°	153.6	164.0	386.2	548.1	546.1	315.6	326.0	595.9	581.4	456.8
87.5°	24.9	31.1	45.7	213.9	170.3	83.1	112.1	116.3	120.4	103.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952845
 CATALOG NUMBER: GALN-SB6C-827-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4719.4	0°	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4
4887.6	2.5°	4771.3	4667.5	4449.5	4248.1	4090.3	3938.7	3853.6	3780.9	3739.4	3731.1
5116.0	5°	4900.0	4686.2	4289.6	3955.3	3737.3	3575.4	3490.2	3436.3	3409.3	3392.7
5423.3	7.5°	5084.8	4771.3	4206.6	3826.6	3598.2	3481.9	3438.3	3430.0	3428.0	3430.0
5794.9	10°	5340.2	4910.4	4198.3	3795.5	3604.4	3540.1	3538.0	3540.1	3548.4	3550.5
6199.8	12.5°	5616.4	5053.7	4231.5	3822.5	3683.3	3648.0	3641.8	3639.7	3646.0	3650.1
6608.8	15°	5917.4	5242.6	4287.5	3880.6	3770.5	3733.2	3726.9	3714.5	3712.4	3710.3
7038.6	17.5°	6226.8	5429.5	4349.8	3942.9	3826.6	3774.7	3751.9	3722.8	3699.9	3693.7
7482.9	20°	6540.3	5614.3	4393.4	3974.0	3830.8	3758.1	3712.4	3662.6	3623.1	3600.3
7931.4	22.5°	6874.6	5807.4	4420.4	3965.7	3793.4	3693.7	3610.7	3552.5	3492.3	3452.9
8384.1	25°	7200.6	5975.6	4418.3	3922.1	3720.7	3594.1	3488.2	3413.4	3330.4	3288.8
8851.2	27.5°	7514.1	6127.1	4366.4	3845.3	3616.9	3475.7	3349.1	3259.8	3178.8	3139.4
9322.5	30°	7838.0	6253.8	4285.5	3733.2	3494.4	3338.7	3199.6	3122.7	3050.1	3012.7
9820.9	32.5°	8159.8	6370.1	4171.3	3594.1	3353.2	3203.7	3066.7	2996.1	2952.5	2952.5
10356.5	35°	8500.3	6451.0	4019.7	3432.1	3203.7	3060.5	2952.5	2911.0	2906.8	2881.9
10923.4	37.5°	8859.5	6502.9	3834.9	3266.0	3056.3	2921.3	2888.1	2838.3	2796.8	2742.8
11546.2	40°	9237.4	6554.8	3612.7	3093.7	2900.6	2825.8	2811.3	2744.9	2626.5	2493.6
12252.2	42.5°	9696.3	6590.1	3382.3	2921.3	2736.6	2711.6	2732.4	2618.2	2429.3	2329.6
13103.5	45°	10227.8	6648.3	3170.5	2751.1	2568.4	2568.4	2655.6	2506.1	2350.4	2288.1
14075.2	47.5°	10917.1	6783.2	2973.2	2564.2	2412.6	2454.2	2485.3	2371.1	2283.9	2207.1
15258.7	50°	11913.8	7107.1	2769.8	2375.3	2294.3	2377.4	2333.8	2267.3	2165.6	2103.3
17139.8	52.5°	13151.2	7298.2	2589.1	2205.0	2192.6	2275.6	2213.3	2151.0	2074.2	1991.2
18566.2	55°	13994.2	7333.5	2437.6	2080.4	2124.0	2115.7	2092.9	2036.8	1995.3	1885.3
19973.9	57.5°	14936.8	7404.1	2313.0	2005.7	2080.4	1989.1	1980.8	1933.0	1879.0	1804.3
21691.0	60°	16064.3	7514.1	2205.0	1976.6	2043.1	1906.0	1864.5	1845.8	1791.8	1754.5
23756.9	62.5°	17293.4	7613.8	2095.0	1980.8	1999.5	1825.1	1762.8	1756.5	1723.3	1710.9
25696.2	65°	18132.2	7341.8	1957.9	1976.6	1930.9	1742.0	1663.1	1661.0	1634.0	1629.9
26537.1	67.5°	17839.5	6480.1	1773.2	1918.5	1860.4	1659.0	1571.8	1563.4	1528.1	1530.2
25658.8	70°	16373.6	5250.9	1517.8	1775.2	1773.2	1584.2	1476.2	1449.3	1401.5	1409.8
22309.7	72.5°	13624.6	3891.0	1175.2	1536.5	1634.0	1515.7	1366.2	1322.6	1262.4	1270.7
16469.1	75°	9839.5	2645.2	855.4	1169.0	1422.3	1434.7	1258.2	1183.5	1110.8	1123.3
9166.8	77.5°	5035.0	1499.1	629.1	805.6	1117.0	1303.9	1160.6	1061.0	1044.4	1160.6
2643.1	80°	1642.3	751.6	436.0	564.8	732.9	1067.2	1017.4	903.2	899.0	926.0
554.4	82.5°	490.0	317.7	280.3	371.7	404.9	818.1	878.3	683.1	587.6	618.7
184.8	85°	168.2	153.6	159.9	184.8	193.1	479.6	614.6	452.6	427.7	471.3
41.5	87.5°	39.4	54.0	45.7	41.5	41.5	116.3	238.8	188.9	261.6	174.4
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°
4719.4
3731.1
3390.6
3436.3
3552.5
3652.2
3708.3
3699.9
3608.6
3454.9
3288.8
3137.3
3010.6
2954.6
2875.7
2734.5
2474.9
2331.7
2298.5
2205.0
2097.1
1974.6
1887.3
1779.4
1764.8
1710.9
1627.8
1530.2
1418.1
1268.6
1127.4
1144.0
795.2
639.5
465.1
168.2
0.0

F REPORT)