

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: P953908

Luminaire Tested: **GALN-SB7B-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953908  
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-SB7B-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

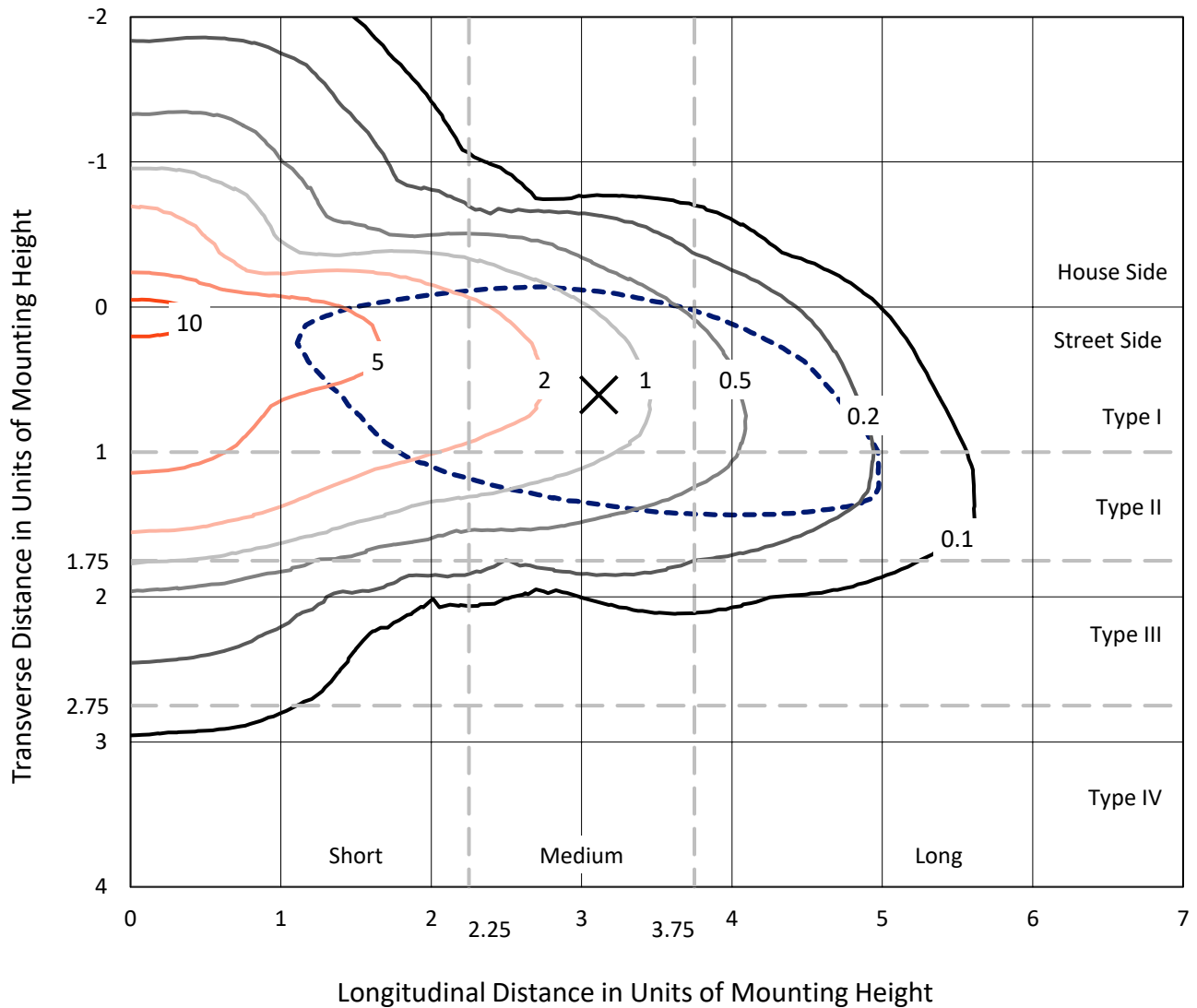
Lumens per Lamp: N/A  
Luminaire Lumens: 34612 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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: P953908  
 CATALOG NUMBER: GALN-SB7B-827-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

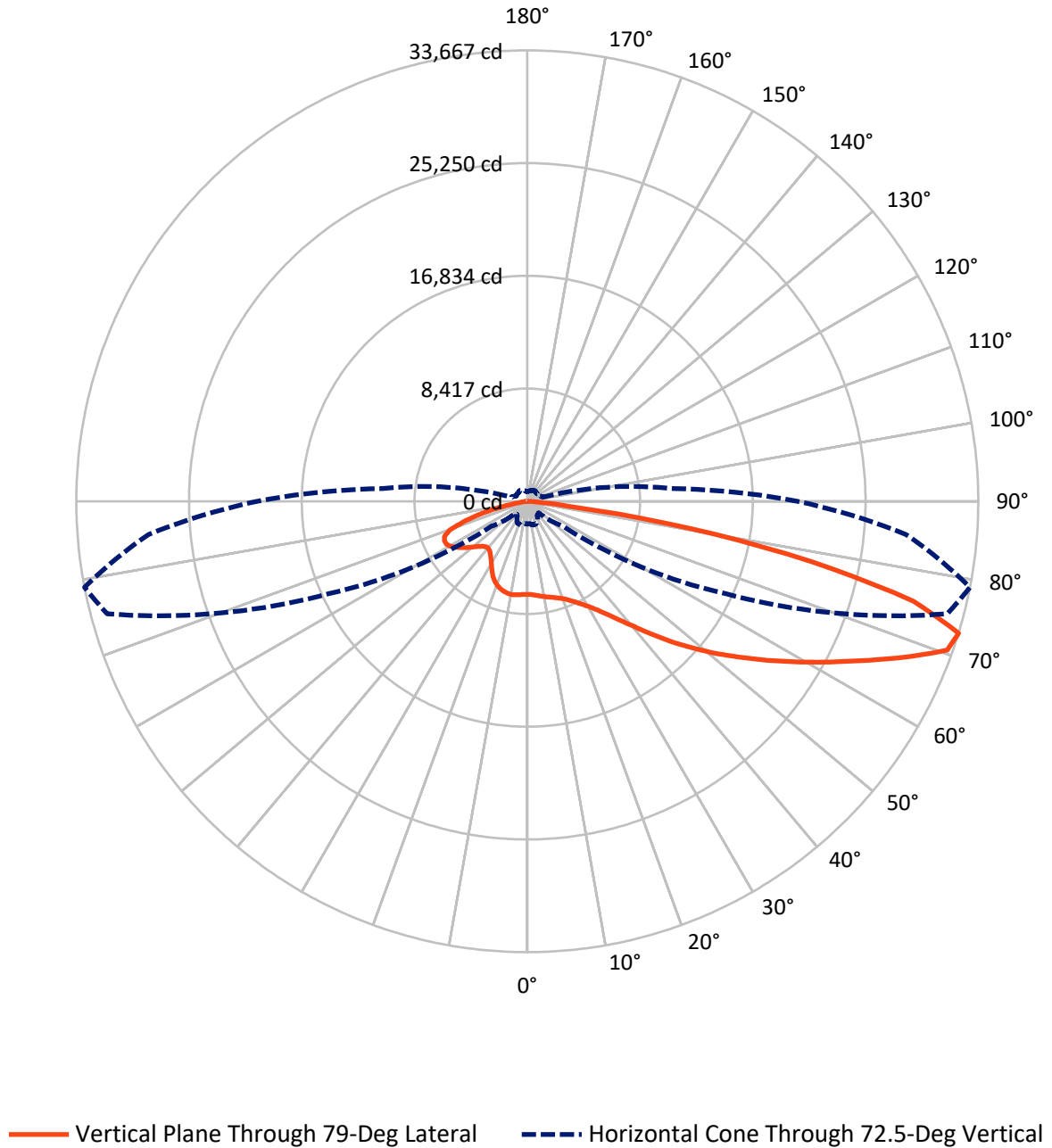
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P953908  
CATALOG NUMBER: GALN-SB7B-827-U-SL2

### Luminous Intensity Polar Plot



REPORT NUMBER: P953908  
 CATALOG NUMBER: GALN-SB7B-827-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7616.5	0.0	7616.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	26995.5	0.0	26995.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	34612.0	0.0	34612.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.7	1.8
10°-20°	1648.9	4.8
20°-30°	2660.7	7.7
30°-40°	3993.3	11.5
40°-50°	5664.7	16.4
50°-60°	7153.8	20.7
60°-70°	7265.6	21.0
70°-80°	4951.9	14.3
80°-90°	642.5	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°	34612.0	100.0
0°-180°	34612.0	100.0



REPORT NUMBER: P953908

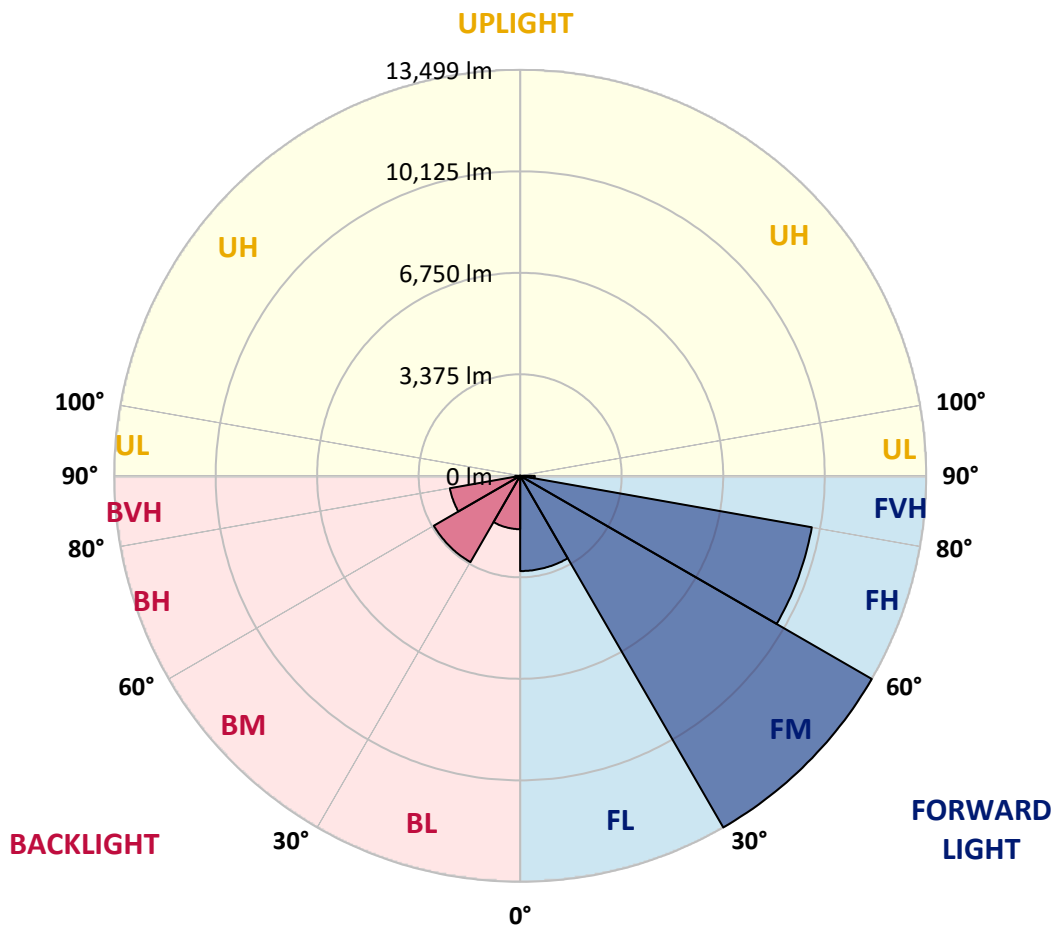
CATALOG NUMBER: GALN-SB7B-827-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3166.2	9.1			
FM (30°-60°)	13499.4	39.0			
FH (60°-80°)	9845.9	28.4			G4/12000
FVH (80°-90°)	484.0	1.4			G3/500
BL (0°-30°)	1774.1	5.1	B3/2500		
BM (30°-60°)	3312.4	9.6	B3/5000		
BH (60°-80°)	2371.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	158.5	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: P953908  
 CATALOG NUMBER: GALN-SB7B-827-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0
2.5°	6951.7	6918.7	6938.9	6931.6	6940.7	6951.7	6955.4	6960.8	6979.2	6977.3
5°	6937.0	6904.1	6931.6	6922.4	6946.2	6971.8	6993.8	7013.9	7043.2	7056.0
7.5°	6905.9	6884.0	6911.4	6938.9	6982.8	7021.3	7052.4	7098.2	7140.3	7147.6
10°	6724.7	6708.2	6772.3	6843.7	6964.5	7068.9	7136.6	7189.7	7235.5	7242.8
12.5°	6536.1	6516.0	6587.4	6684.4	6880.3	7068.9	7211.7	7281.2	7321.5	7345.3
15°	6505.0	6488.5	6528.8	6613.0	6775.9	7019.4	7262.9	7391.1	7425.9	7453.3
17.5°	6655.1	6624.0	6640.4	6669.7	6764.9	6973.7	7303.2	7515.6	7568.7	7598.0
20°	7003.0	6959.0	6933.4	6874.8	6858.3	6981.0	7299.6	7665.7	7735.3	7771.9
22.5°	7466.2	7436.9	7381.9	7233.6	7072.5	7070.7	7369.1	7858.0	7987.9	8022.7
25°	8026.4	7982.5	7912.9	7711.5	7402.1	7248.3	7486.3	8103.3	8321.2	8330.3
27.5°	8670.8	8604.9	8509.7	8244.3	7826.8	7526.6	7665.7	8385.2	8703.8	8700.1
30°	9350.1	9284.2	9183.5	8861.3	8335.8	7901.9	7914.7	8689.2	9157.9	9137.7
32.5°	9846.2	9796.8	9776.7	9527.7	8921.7	8345.0	8200.3	9026.0	9718.1	9699.8
35°	10227.1	10163.0	10186.8	10060.5	9560.6	8841.1	8550.0	9427.0	10399.2	10397.3
37.5°	10604.2	10547.5	10567.6	10483.4	10152.0	9470.9	8976.6	9917.6	11243.2	11283.5
40°	10948.4	10888.0	10968.5	10889.8	10611.5	10141.0	9461.8	10472.4	12220.8	12297.7
42.5°	11155.3	11107.7	11241.3	11243.2	11010.7	10706.7	9994.5	11083.9	13352.3	13524.4
45°	11226.7	11210.2	11411.6	11453.7	11364.0	11034.5	10474.2	11750.3	14571.6	14879.2
47.5°	11149.8	11118.7	11397.0	11552.6	11624.0	11188.3	10871.5	12471.7	15816.6	16267.0
50°	10761.7	10701.2	11115.0	11442.7	11697.2	11288.9	11272.5	13304.7	17231.8	17724.3
52.5°	10064.1	10018.3	10488.9	11058.3	11536.1	11338.4	11722.9	14214.6	18575.7	19212.8
55°	9172.5	9112.1	9630.2	10373.5	11135.2	11321.9	12173.2	15232.6	20161.2	20807.5
57.5°	7759.1	7638.3	8293.7	9172.5	10481.5	11301.8	12641.9	16245.0	21772.3	22546.8
60°	5697.6	5518.1	6321.9	7363.6	9203.6	11105.9	13222.3	17380.1	23705.7	24403.2
62.5°	3317.5	3213.1	3738.6	4710.7	6937.0	9952.4	13548.2	18700.2	25606.1	26338.4
65°	2576.0	2546.7	2592.5	2667.5	3861.2	7451.5	12543.1	19987.3	28022.8	28535.4
67.5°	2356.3	2334.3	2354.5	2213.5	1959.0	4150.5	9923.1	20313.1	30611.6	30922.9
70°	2094.5	2068.8	2134.8	2013.9	1541.6	1887.6	6411.6	19130.4	32671.3	33255.3
72.5°	1706.3	1677.0	1830.8	1775.9	1298.1	1212.0	3220.4	16320.1	32455.3	33667.3
75°	1310.9	1294.4	1477.5	1523.3	1058.2	953.9	1545.2	12131.1	28561.1	29782.2
77.5°	1017.9	1005.1	1098.5	1265.1	853.2	739.7	950.2	7695.0	21523.3	21737.5
80°	763.5	726.8	812.9	979.5	664.6	540.1	644.5	4487.4	13605.0	12332.5
82.5°	477.8	459.5	530.9	653.6	468.7	371.7	419.3	2479.0	5452.2	3211.3
85°	272.8	265.5	289.3	373.5	254.5	214.2	239.8	1094.8	996.0	684.7
87.5°	109.9	106.2	131.8	166.6	93.4	78.7	84.2	263.6	219.7	203.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953908  
 CATALOG NUMBER: GALN-SB7B-827-U-SL2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6948.0	0°	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0	6948.0
6975.5	2.5°	6968.2	6968.2	6942.5	6902.3	6856.5	6827.2	6779.6	6766.8	6717.3	6702.7
7037.7	5°	7052.4	7037.7	6959.0	6845.5	6689.9	6547.1	6389.6	6290.8	6151.6	6102.2
7160.4	7.5°	7158.6	7118.3	6982.8	6733.8	6407.9	6087.5	5754.3	5501.7	5260.0	5173.9
7261.1	10°	7255.6	7198.9	6968.2	6532.4	5968.5	5413.8	4882.8	4511.2	4229.2	4113.9
7372.8	12.5°	7352.6	7248.3	6871.1	6197.4	5344.2	4591.7	4026.0	3736.7	3562.8	3423.7
7464.3	15°	7444.2	7297.7	6721.0	5748.8	4659.5	3896.0	3478.6	3247.9	3108.8	3017.2
7598.0	17.5°	7550.4	7339.8	6495.8	5179.4	4007.7	3414.5	3074.0	2934.8	2907.4	2896.4
7781.1	20°	7698.7	7378.3	6199.2	4542.3	3528.0	3030.0	2854.3	2841.5	2839.6	2834.1
8000.8	22.5°	7858.0	7424.0	5807.4	3963.8	3119.7	2790.2	2759.1	2733.4	2717.0	2715.1
8266.2	25°	8046.5	7438.7	5316.8	3489.6	2771.9	2676.7	2640.1	2601.6	2590.6	2590.6
8568.3	27.5°	8229.6	7389.3	4745.5	3077.6	2576.0	2572.3	2524.7	2511.9	2510.1	2515.6
8912.5	30°	8412.7	7295.9	4178.0	2696.8	2462.5	2462.5	2446.0	2455.2	2462.5	2480.8
9384.9	32.5°	8659.9	7197.0	3703.8	2414.9	2363.6	2345.3	2361.8	2380.1	2387.4	2411.2
10005.5	35°	9022.4	7127.5	3326.6	2261.1	2261.1	2237.3	2246.4	2242.8	2226.3	2215.3
10756.2	37.5°	9502.0	7123.8	3015.4	2189.7	2175.0	2171.4	2173.2	2149.4	2085.3	2008.4
11664.3	40°	10078.8	7222.7	2775.6	2140.2	2129.3	2151.2	2140.2	2076.2	1900.4	1766.8
12781.1	42.5°	10853.2	7504.6	2621.8	2079.8	2112.8	2140.2	2096.3	1874.8	1755.8	1666.1
14053.5	45°	11765.0	7962.3	2543.0	2015.8	2081.7	2114.6	1902.2	1805.2	1710.0	1602.0
15441.3	47.5°	12797.6	8539.0	2524.7	1955.3	2012.1	2032.2	1819.9	1775.9	1667.9	1550.7
16836.4	50°	13921.7	9221.9	2574.2	1883.9	1911.4	1841.8	1792.4	1752.1	1640.4	1525.1
18266.3	52.5°	15084.3	9974.4	2673.0	1786.9	1810.7	1733.8	1781.4	1746.6	1624.0	1468.3
19743.8	55°	16226.7	10732.4	2768.2	1673.4	1708.2	1636.8	1750.3	1724.6	1548.9	1373.1
21320.1	57.5°	17387.5	11486.7	2861.6	1572.7	1609.3	1543.4	1700.8	1666.1	1464.7	1285.2
23041.1	60°	18594.0	12219.0	2905.5	1475.7	1501.3	1457.3	1625.8	1565.4	1369.5	1195.5
24732.8	62.5°	19723.6	12828.7	2834.1	1378.6	1395.1	1376.8	1526.9	1446.4	1274.3	1094.8
26495.9	65°	20856.9	13191.2	2614.4	1283.4	1287.1	1277.9	1387.8	1318.2	1162.6	1007.0
28039.3	67.5°	21884.0	13394.4	2264.7	1180.9	1171.7	1168.1	1257.8	1179.1	1054.6	919.1
29212.8	70°	22101.9	12878.1	1730.1	1060.1	1060.1	1050.9	1115.0	1034.4	935.6	825.7
28372.5	72.5°	20186.8	10833.1	1228.5	922.7	937.4	919.1	972.2	904.4	814.7	741.5
24452.7	75°	16278.0	7944.0	893.4	781.8	807.4	776.3	825.7	778.1	701.2	699.4
16851.0	77.5°	11184.6	4912.1	648.1	644.5	662.8	622.5	679.2	653.6	584.0	552.9
7334.3	80°	4773.0	1959.0	472.4	498.0	498.0	461.4	527.3	534.6	474.2	459.5
1415.2	82.5°	950.2	556.6	331.4	342.4	322.2	311.2	373.5	413.8	571.2	635.3
426.6	85°	285.6	205.1	199.6	186.7	164.8	166.6	219.7	415.6	512.6	292.9
141.0	87.5°	78.7	51.3	53.1	42.1	34.8	45.8	75.1	314.9	172.1	73.2
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>
6948.0
6726.5
6138.8
5184.9
4139.5
3469.4
3033.7
2903.7
2852.4
2735.3
2601.6
2530.2
2493.6
2431.4
2240.9
2010.3
1763.1
1662.4
1594.7
1541.6
1512.3
1457.3
1364.0
1281.6
1190.0
1093.0
996.0
908.1
822.0
719.5
629.8
518.1
459.5
637.1
252.7
62.2
0.0

F REPORT)