

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: P956407

Luminaire Tested: **GALN-SB9A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956407
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-SB9A-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35314 lumens
Efficiency: N/A
Efficacy: 138.2 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

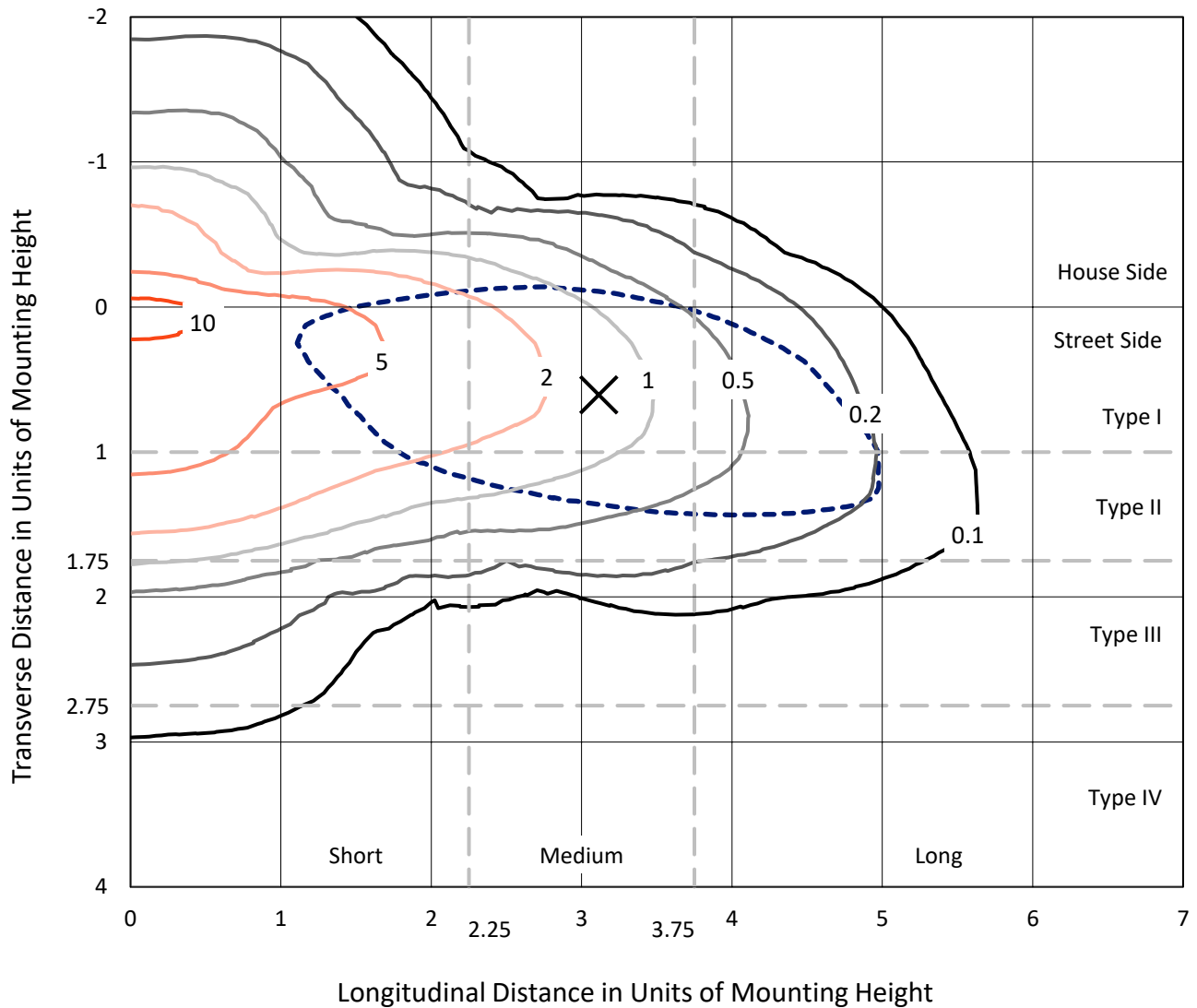
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956407
 CATALOG NUMBER: GALN-SB9A-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

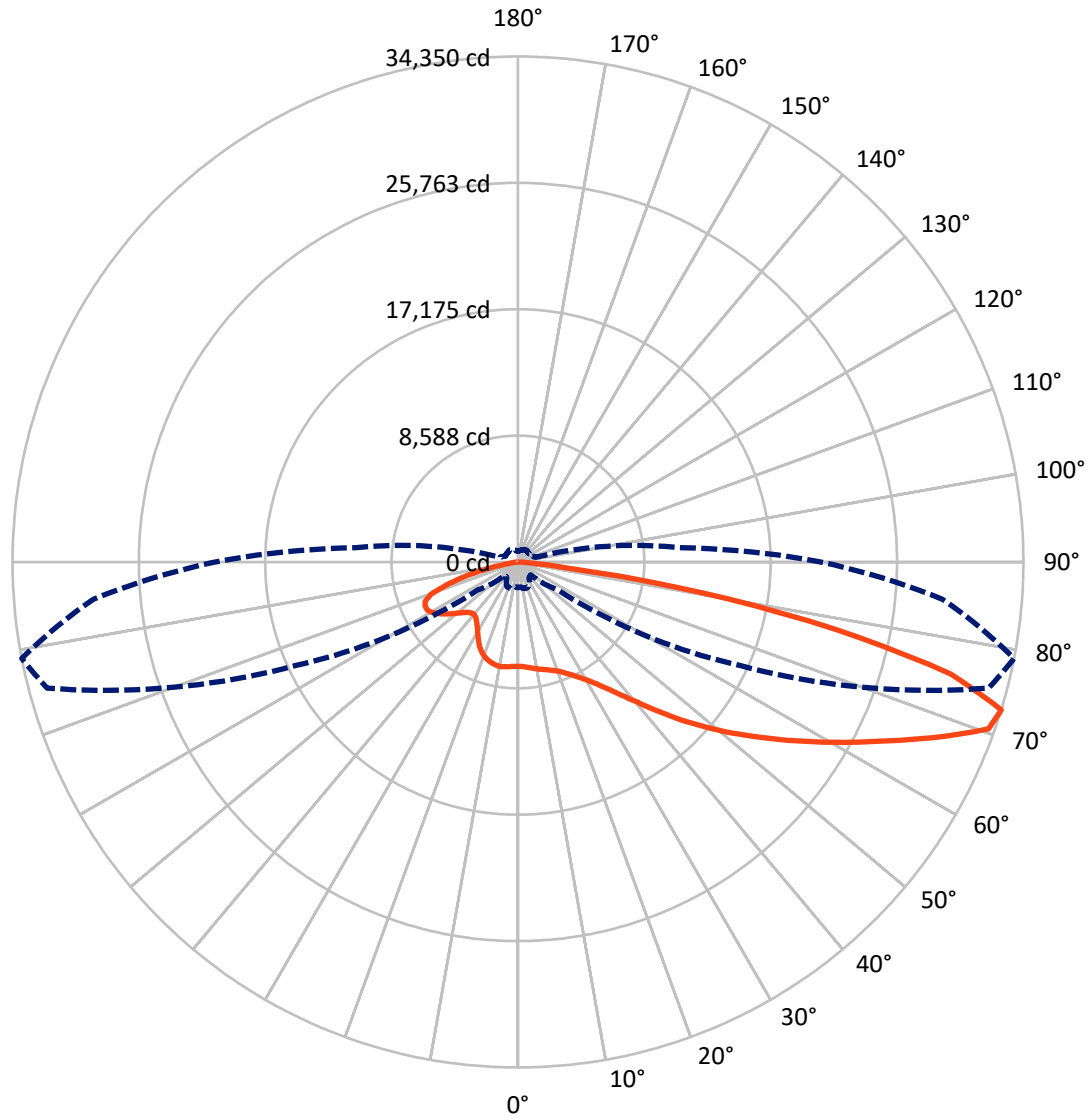
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P956407
CATALOG NUMBER: GALN-SB9A-827-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P956407

CATALOG NUMBER: GALN-SB9A-827-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7771.0	0.0	7771.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27543.0	0.0	27543.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	35314.0	0.0	35314.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.5	1.8
10°-20°	1682.4	4.8
20°-30°	2714.6	7.7
30°-40°	4074.3	11.5
40°-50°	5779.6	16.4
50°-60°	7298.9	20.7
60°-70°	7413.0	21.0
70°-80°	5052.3	14.3
80°-90°	655.5	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°	35314.0	100.0
0°-180°	35314.0	100.0



REPORT NUMBER: P956407

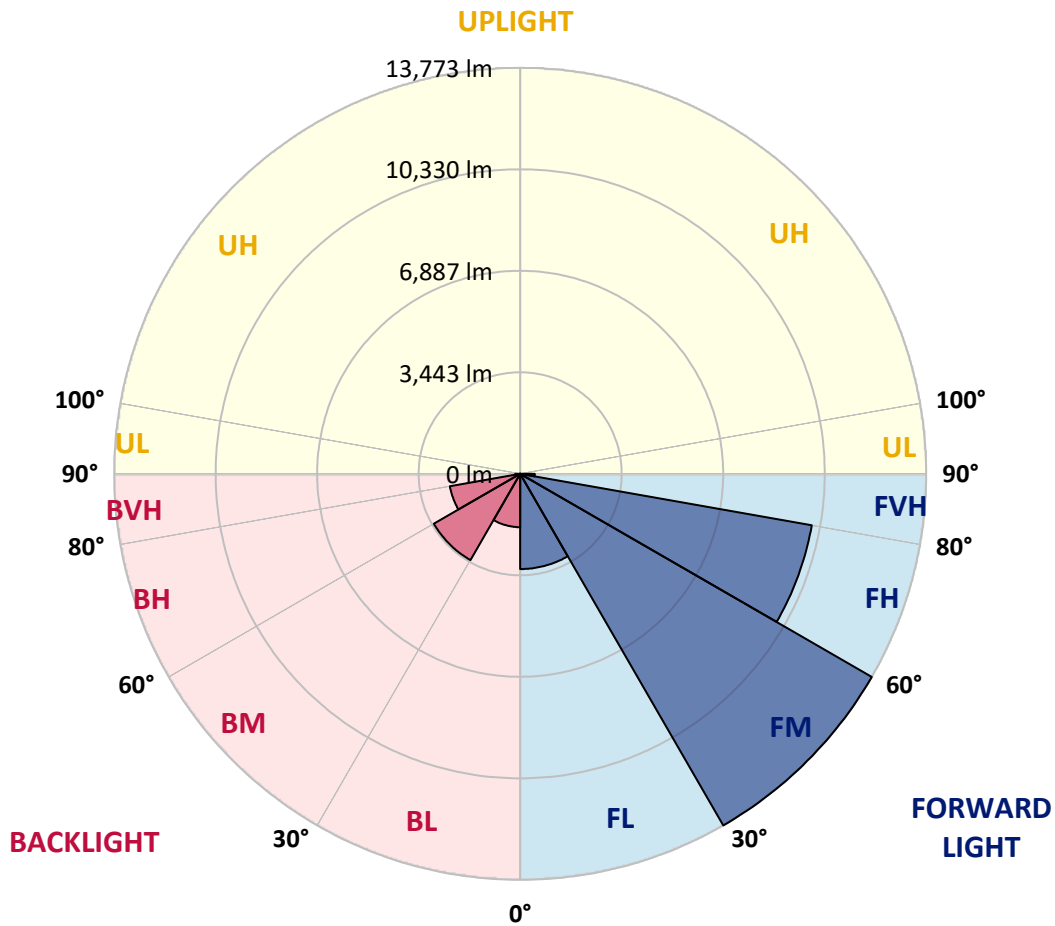
CATALOG NUMBER: GALN-SB9A-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3230.4	9.1			
FM (30°-60°)	13773.2	39.0			
FH (60°-80°)	10045.6	28.4			G4/12000
FVH (80°-90°)	493.8	1.4			G3/500
BL (0°-30°)	1810.1	5.1	B3/2500		
BM (30°-60°)	3379.6	9.6	B3/5000		
BH (60°-80°)	2419.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	161.7	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: P956407
 CATALOG NUMBER: GALN-SB9A-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9
2.5°	7092.7	7059.1	7079.6	7072.1	7081.5	7092.7	7096.4	7102.0	7120.7	7118.8
5°	7077.7	7044.1	7072.1	7062.8	7087.1	7113.2	7135.6	7156.2	7186.1	7199.2
7.5°	7046.0	7023.6	7051.6	7079.6	7124.4	7163.7	7195.4	7242.1	7285.1	7292.6
10°	6861.1	6844.2	6909.6	6982.5	7105.8	7212.2	7281.4	7335.5	7382.2	7389.7
12.5°	6668.7	6648.1	6721.0	6820.0	7019.8	7212.2	7357.9	7428.9	7470.0	7494.3
15°	6636.9	6620.1	6661.2	6747.1	6913.4	7161.8	7410.2	7541.0	7576.5	7604.5
17.5°	6790.1	6758.3	6775.1	6805.0	6902.2	7115.1	7451.3	7668.0	7722.2	7752.1
20°	7145.0	7100.2	7074.0	7014.2	6997.4	7122.6	7447.6	7821.2	7892.2	7929.5
22.5°	7617.6	7587.7	7531.7	7380.4	7216.0	7214.1	7518.6	8017.3	8150.0	8185.4
25°	8189.2	8144.4	8073.4	7867.9	7552.2	7395.3	7638.1	8267.6	8489.9	8499.3
27.5°	8846.7	8779.5	8682.3	8411.5	7985.6	7679.2	7821.2	8555.3	8880.3	8876.6
30°	9539.7	9472.5	9369.7	9041.0	8504.9	8062.2	8075.2	8865.4	9343.6	9323.0
32.5°	10045.9	9995.5	9975.0	9720.9	9102.6	8514.2	8366.6	9209.1	9915.2	9896.5
35°	10434.5	10369.1	10393.4	10264.5	9754.5	9020.4	8723.4	9618.2	10610.1	10608.2
37.5°	10819.3	10761.4	10781.9	10696.0	10357.9	9663.0	9158.7	10118.8	11471.2	11512.3
40°	11170.5	11108.8	11191.0	11110.7	10826.8	10346.7	9653.7	10684.8	12468.7	12547.2
42.5°	11381.5	11333.0	11469.3	11471.2	11234.0	10923.9	10197.3	11308.7	13623.1	13798.7
45°	11454.4	11437.6	11643.1	11686.0	11594.5	11258.3	10686.7	11988.6	14867.2	15181.0
47.5°	11375.9	11344.2	11628.1	11786.9	11859.7	11415.2	11092.0	12724.6	16137.4	16596.9
50°	10979.9	10918.3	11340.5	11674.8	11934.5	11517.9	11501.1	13574.5	17581.3	18083.8
52.5°	10268.2	10221.5	10701.6	11282.5	11770.1	11568.3	11960.6	14502.9	18952.4	19602.5
55°	9358.5	9296.9	9825.5	10583.9	11361.0	11551.5	12420.1	15541.5	20570.1	21229.5
57.5°	7916.5	7793.2	8461.9	9358.5	10694.1	11531.0	12898.3	16574.5	22213.9	23004.1
60°	5813.1	5630.1	6450.1	7513.0	9390.3	11331.1	13490.5	17732.6	24186.5	24898.2
62.5°	3384.8	3278.3	3814.4	4806.3	7077.7	10154.3	13823.0	19079.5	26125.4	26872.6
65°	2628.2	2598.3	2645.0	2721.6	3939.6	7602.6	12797.5	20392.6	28591.2	29114.2
67.5°	2404.1	2381.7	2402.2	2258.4	1998.7	4234.7	10124.4	20725.1	31232.5	31550.0
70°	2137.0	2110.8	2178.1	2054.8	1572.8	1925.9	6541.6	19518.4	33333.9	33929.8
72.5°	1740.9	1711.1	1868.0	1811.9	1324.4	1236.6	3285.8	16651.1	33113.5	34350.1
75°	1337.5	1320.7	1507.5	1554.2	1079.7	973.2	1576.6	12377.2	29140.3	30386.3
77.5°	1038.6	1025.5	1120.8	1290.8	870.5	754.7	969.5	7851.1	21959.9	22178.4
80°	778.9	741.6	829.4	999.4	678.1	551.1	657.5	4578.4	13880.9	12582.7
82.5°	487.5	468.9	541.7	666.9	478.2	379.2	427.8	2529.2	5562.8	3276.4
85°	278.3	270.9	295.1	381.1	259.6	218.6	244.7	1117.0	1016.2	698.6
87.5°	112.1	108.3	134.5	170.0	95.3	80.3	85.9	269.0	224.2	207.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956407
 CATALOG NUMBER: GALN-SB9A-827-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7088.9	0°	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9	7088.9
7117.0	2.5°	7109.5	7109.5	7083.3	7042.3	6995.6	6965.7	6917.1	6904.0	6853.6	6838.6
7180.5	5°	7195.4	7180.5	7100.2	6984.3	6825.6	6679.9	6519.2	6418.3	6276.4	6225.9
7305.6	7.5°	7303.8	7262.7	7124.4	6870.4	6537.9	6211.0	5871.0	5613.3	5366.7	5278.9
7408.4	10°	7402.8	7344.9	7109.5	6664.9	6089.6	5523.6	4981.9	4602.7	4315.0	4197.3
7522.3	12.5°	7501.8	7395.3	7010.5	6323.1	5452.6	4684.9	4107.7	3812.5	3635.1	3493.1
7615.7	15°	7595.2	7445.7	6857.3	5865.4	4754.0	3975.0	3549.1	3313.8	3171.8	3078.4
7752.1	17.5°	7703.5	7488.7	6627.6	5284.5	4089.0	3483.8	3136.3	2994.4	2966.3	2955.1
7938.9	20°	7854.8	7527.9	6324.9	4634.4	3599.6	3091.5	2912.2	2899.1	2897.2	2891.6
8163.0	22.5°	8017.3	7574.6	5925.2	4044.2	3183.0	2846.8	2815.0	2788.9	2772.1	2770.2
8433.9	25°	8209.7	7589.6	5424.6	3560.4	2828.1	2731.0	2693.6	2654.4	2643.2	2643.2
8742.1	27.5°	8396.5	7539.1	4841.8	3140.1	2628.2	2624.5	2575.9	2562.9	2561.0	2566.6
9093.3	30°	8583.3	7443.9	4262.7	2751.5	2512.4	2512.4	2495.6	2504.9	2512.4	2531.1
9575.2	32.5°	8835.5	7343.0	3778.9	2463.9	2411.6	2392.9	2409.7	2428.4	2435.8	2460.1
10208.5	35°	9205.4	7272.0	3394.1	2306.9	2306.9	2282.7	2292.0	2288.3	2271.5	2260.2
10974.3	37.5°	9694.8	7268.3	3076.5	2234.1	2219.1	2215.4	2217.3	2193.0	2127.6	2049.2
11900.8	40°	10283.2	7369.1	2831.8	2183.7	2172.5	2194.9	2183.7	2118.3	1939.0	1802.6
13040.3	42.5°	11073.3	7656.8	2674.9	2122.0	2155.6	2183.7	2138.8	1912.8	1791.4	1699.9
14338.5	45°	12003.6	8123.8	2594.6	2056.6	2123.9	2157.5	1940.8	1841.8	1744.7	1634.5
15754.5	47.5°	13057.1	8712.2	2575.9	1995.0	2052.9	2073.4	1856.8	1811.9	1701.7	1582.2
17177.9	50°	14204.1	9409.0	2626.4	1922.1	1950.2	1879.2	1828.7	1787.6	1673.7	1556.0
18636.7	52.5°	15390.2	10176.7	2727.2	1823.1	1847.4	1769.0	1817.5	1782.0	1656.9	1498.1
20144.2	55°	16555.8	10950.0	2824.4	1707.3	1742.8	1670.0	1785.8	1759.6	1580.3	1401.0
21752.5	57.5°	17740.1	11719.6	2919.6	1604.6	1641.9	1574.7	1735.3	1699.9	1494.4	1311.3
23508.4	60°	18971.1	12466.8	2964.5	1505.6	1531.7	1486.9	1658.8	1597.1	1397.2	1219.8
25234.4	62.5°	20123.7	13088.9	2891.6	1406.6	1423.4	1404.7	1557.9	1475.7	1300.1	1117.0
27033.3	65°	21279.9	13458.7	2667.5	1309.4	1313.2	1303.8	1415.9	1344.9	1186.2	1027.4
28608.0	67.5°	22327.9	13666.1	2310.7	1204.8	1195.5	1191.8	1283.3	1203.0	1076.0	937.7
29805.3	70°	22550.1	13139.3	1765.2	1081.6	1081.6	1072.2	1137.6	1055.4	954.5	842.5
28947.9	72.5°	20596.2	11052.8	1253.4	941.5	956.4	937.7	991.9	922.8	831.2	756.5
24948.6	75°	16608.1	8105.1	911.6	797.6	823.8	792.0	842.5	793.9	715.4	713.6
17192.8	77.5°	11411.4	5011.8	661.3	657.5	676.2	635.1	693.0	666.9	595.9	564.1
7483.1	80°	4869.8	1998.7	481.9	508.1	508.1	470.7	538.0	545.4	483.8	468.9
1443.9	82.5°	969.5	567.9	338.1	349.3	328.8	317.6	381.1	422.2	582.8	648.2
435.2	85°	291.4	209.2	203.6	190.5	168.1	170.0	224.2	424.0	523.0	298.9
143.8	87.5°	80.3	52.3	54.2	43.0	35.5	46.7	76.6	321.3	175.6	74.7
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>
7088.9
6862.9
6263.3
5290.1
4223.5
3539.8
3095.2
2962.6
2910.3
2790.7
2654.4
2581.5
2544.2
2480.7
2286.4
2051.0
1798.9
1696.1
1627.0
1572.8
1542.9
1486.9
1391.6
1307.6
1214.2
1115.2
1016.2
926.5
838.7
734.1
642.6
528.6
468.9
650.1
257.8
63.5
0.0

F REPORT)