

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: P944059

Luminaire Tested: **GALN-SB8D-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

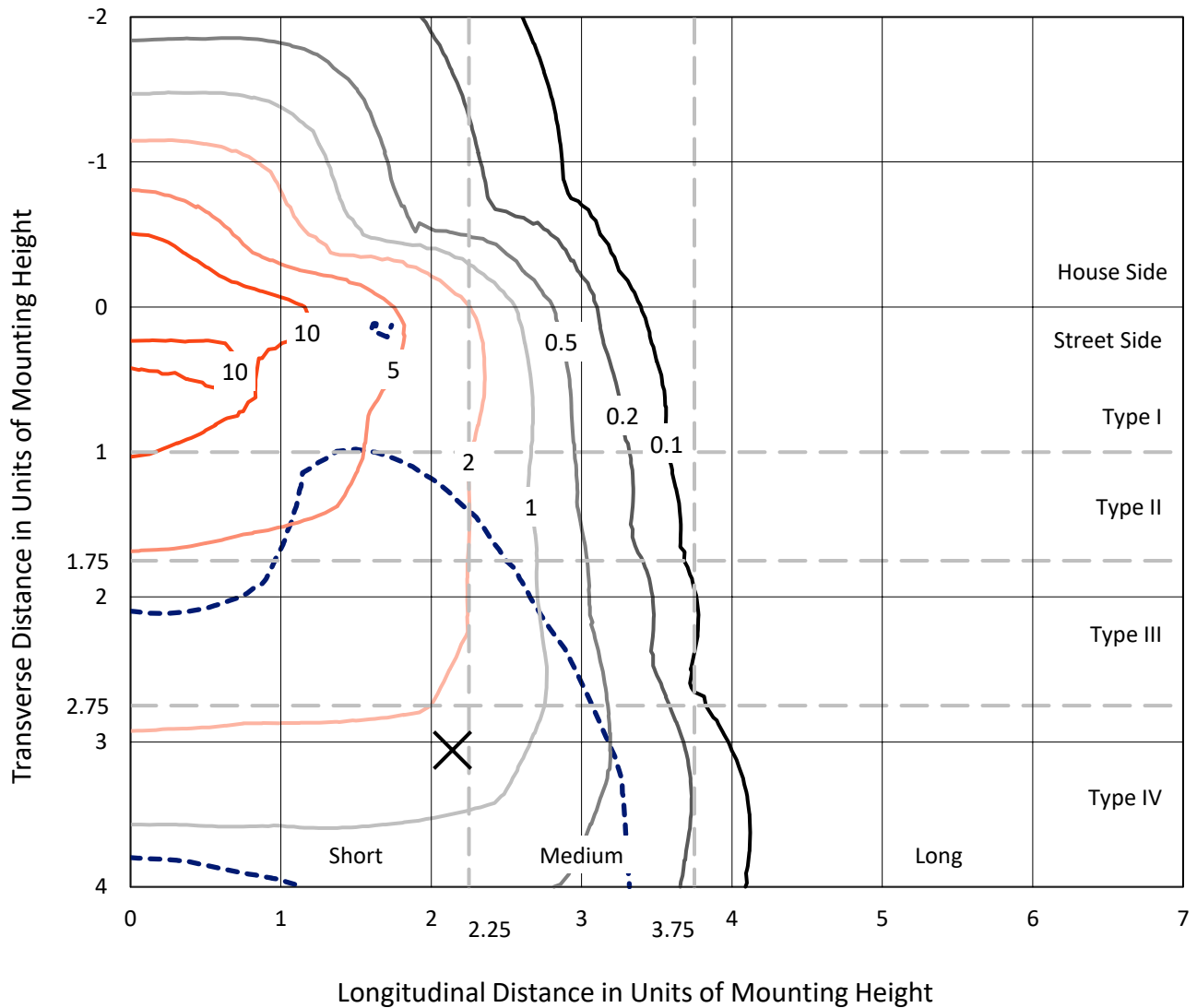
Lumens per Lamp: N/A  
Luminaire Lumens: 70720 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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: P944059  
 CATALOG NUMBER: GALN-SB8D-827-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

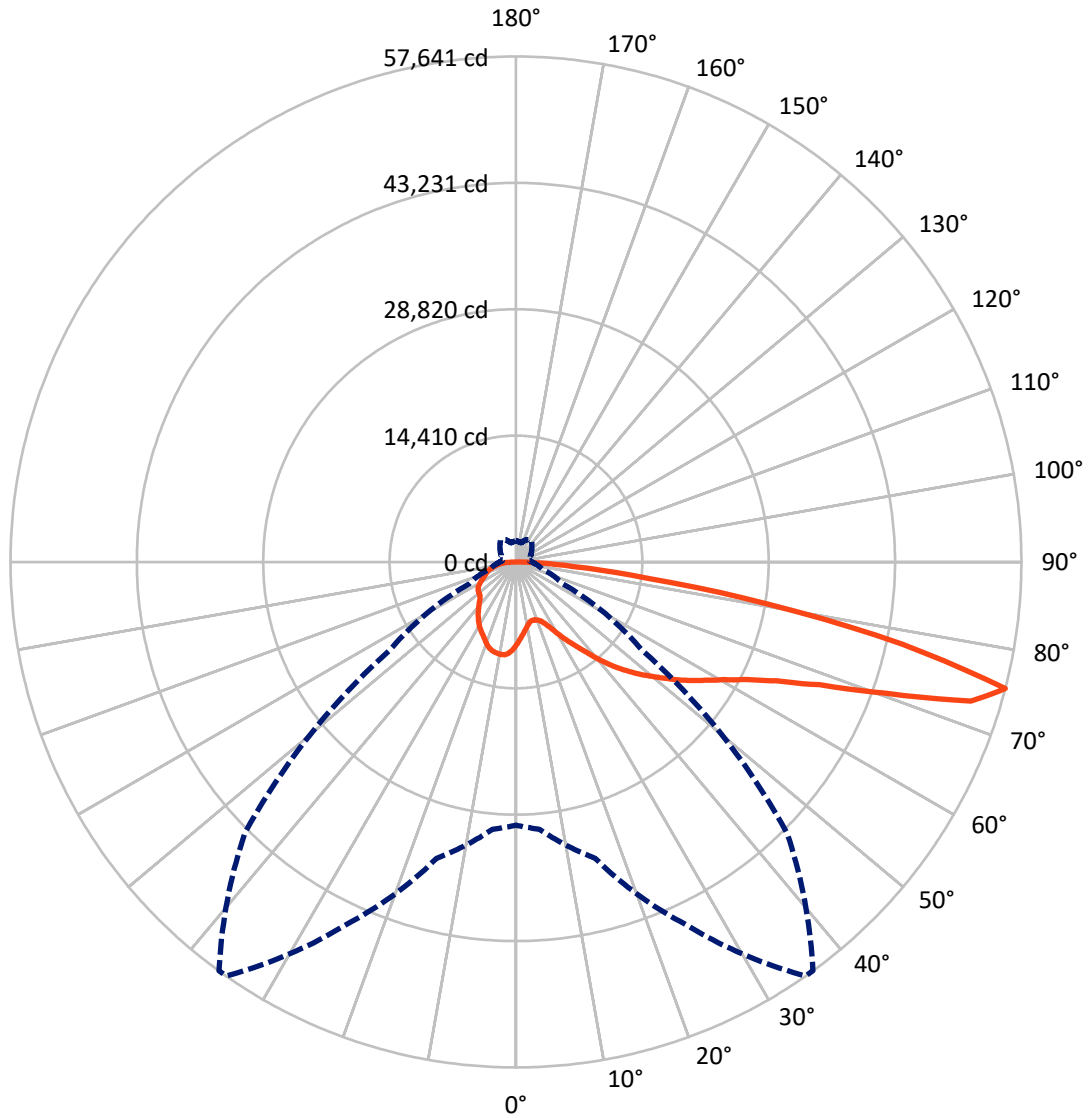
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P944059  
CATALOG NUMBER: GALN-SB8D-827-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P944059

CATALOG NUMBER: GALN-SB8D-827-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16829.6	0.0	16829.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	53890.4	0.0	53890.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	70720.0	0.0	70720.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	892.3	1.3
10°-20°	2573.7	3.6
20°-30°	4321.8	6.1
30°-40°	6716.7	9.5
40°-50°	9969.4	14.1
50°-60°	13763.4	19.5
60°-70°	16698.1	23.6
70°-80°	13799.7	19.5
80°-90°	1984.8	2.8
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°	70720.0	100.0
0°-180°	70720.0	100.0

**Coefficient of Utilization**

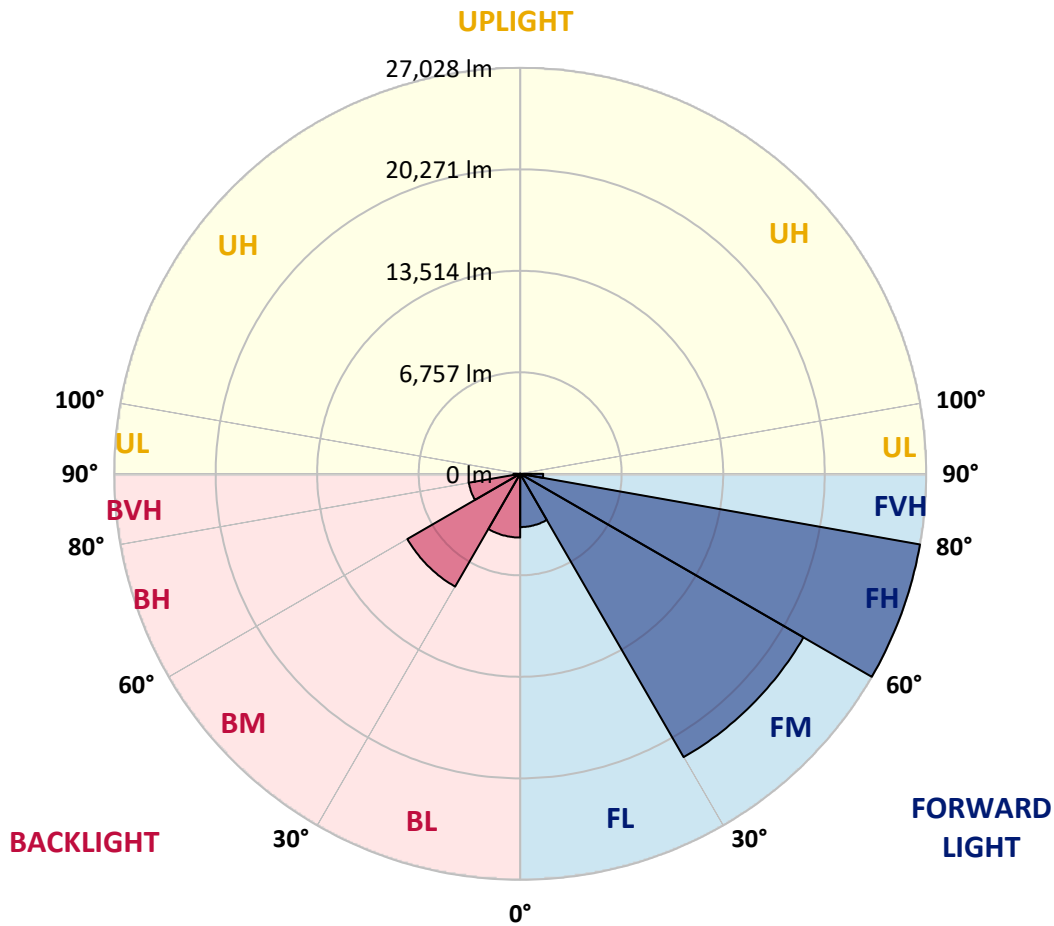


REPORT NUMBER: P944059  
 CATALOG NUMBER: GALN-SB8D-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3546.5	5.0			
FM (30°-60°)	21777.9	30.8			
FH (60°-80°)	27028.1	38.2			G5
FVH (80°-90°)	1537.9	2.2			G5
BL (0°-30°)	4241.3	6.0	B4/5000		
BM (30°-60°)	8671.6	12.3	B5		
BH (60°-80°)	3469.7	4.9	B4/5000		G4/5000
BVH (80°-90°)	446.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type IV Short



REPORT NUMBER: P944059

CATALOG NUMBER: GALN-SB8D-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9
2.5°	8689.9	8743.4	8766.3	8754.9	8812.2	8804.6	8884.9	8984.3	9121.9	9255.7
5°	8020.8	8078.2	8127.9	8173.8	8284.6	8319.0	8445.2	8636.4	8888.7	9144.8
7.5°	7397.7	7447.4	7523.8	7608.0	7795.3	7829.7	8040.0	8338.2	8689.9	9064.5
10°	6889.2	6938.9	7019.2	7114.8	7348.0	7390.0	7657.7	8055.3	8514.0	8988.1
12.5°	6671.3	6686.6	6732.5	6828.0	7030.7	7057.4	7351.8	7806.8	8342.0	8930.7
15°	6659.8	6690.4	6694.2	6743.9	6912.1	6923.6	7195.1	7646.2	8234.9	8919.3
17.5°	6774.5	6797.5	6763.0	6793.6	6935.1	6954.2	7168.3	7569.7	8200.5	8969.0
20°	7080.4	7099.5	6996.3	6954.2	7057.4	7072.7	7283.0	7619.4	8234.9	9072.2
22.5°	7730.3	7741.8	7489.4	7317.4	7325.0	7332.7	7516.2	7822.0	8368.7	9259.5
25°	8743.4	8735.8	8334.3	8001.7	7810.6	7768.5	7890.9	8150.8	8594.3	9508.0
27.5°	9928.6	9871.2	9469.8	8972.8	8556.1	8494.9	8468.1	8579.0	8915.4	9836.8
30°	11266.6	11213.1	10781.1	10131.2	9553.9	9454.5	9202.2	9144.8	9393.3	10284.1
32.5°	12734.7	12700.3	12184.2	11396.6	10624.4	10509.7	10085.3	9932.4	10127.4	10960.8
35°	13965.8	13935.2	13507.0	12696.5	11752.2	11610.7	11178.7	11006.7	11106.1	11828.6
37.5°	15078.3	15063.0	14696.0	14057.5	13082.6	12910.6	12425.0	12367.7	12348.6	12971.7
40°	16110.5	16072.3	15690.0	15353.5	14631.0	14474.2	14046.0	13996.3	13851.1	14378.6
42.5°	17253.6	17154.2	16599.9	16443.1	16248.1	16118.2	15862.0	15869.6	15548.5	15965.2
45°	18186.4	18129.1	17559.5	17467.7	17678.0	17624.4	17846.2	17903.5	17280.4	17628.3
47.5°	19188.1	19134.6	18652.9	18587.9	19157.5	19172.8	19956.5	19975.6	18970.2	19356.3
50°	20423.0	20346.5	19868.6	19948.9	20587.3	20644.7	22078.3	21948.4	20526.2	21111.1
52.5°	21237.3	21283.1	21179.9	21309.9	22181.6	22235.1	24165.8	23833.1	22066.9	22843.0
55°	21837.5	21929.2	22250.4	22548.6	23863.7	23917.3	26134.6	25626.2	23343.8	24448.7
57.5°	22609.8	22479.8	23080.0	23661.1	25461.8	25603.2	28050.0	27354.2	24475.4	25832.6
60°	23718.5	23626.7	24093.1	24953.3	27251.0	27476.6	30076.3	28910.2	25305.0	26929.9
62.5°	25966.4	25737.0	25809.7	26570.5	29506.6	29804.8	32362.5	30267.4	25717.9	27358.0
65°	29326.9	28933.1	28566.1	29093.7	32683.6	32978.0	34943.0	31334.1	25565.0	26528.4
67.5°	33559.1	33169.1	32718.0	33215.0	37363.1	37596.3	38127.7	31934.3	24360.7	23332.3
70°	37049.6	36904.3	37443.3	39488.7	44837.2	44844.9	42210.7	31437.3	21061.4	16542.5
72.5°	36587.0	36499.0	39339.6	45663.0	54257.3	54054.7	46075.9	27675.4	14187.5	7462.7
75°	30015.1	30584.7	34985.1	45552.1	57640.7	57614.0	43709.4	17593.9	5868.4	3092.9
77.5°	16095.2	16997.5	22713.0	33631.7	44997.8	45674.5	30730.0	6155.2	2519.4	1980.4
80°	5249.1	6036.7	9053.1	17123.6	29239.0	29112.8	13170.5	2416.2	1724.2	1403.1
82.5°	2228.9	2320.6	4044.8	8085.8	15005.6	14772.4	4193.9	1387.8	1211.9	959.6
85°	871.7	974.9	1785.4	3739.0	6499.3	6357.8	1513.9	688.2	776.1	627.0
87.5°	286.7	347.9	638.5	1280.7	2022.4	1949.8	370.8	237.0	336.4	286.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944059  
 CATALOG NUMBER: GALN-SB8D-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9423.9	0°	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9	9423.9
9450.7	2.5°	9504.2	9565.4	9638.0	9745.1	9836.8	9913.3	9993.6	10043.3	10062.4	10119.7
9466.0	5°	9573.0	9706.8	9886.5	10062.4	10234.4	10337.6	10429.4	10475.3	10517.3	10547.9
9508.0	7.5°	9687.7	9859.8	10142.7	10372.0	10517.3	10601.4	10662.6	10647.3	10662.6	10670.2
9553.9	10°	9787.1	10028.0	10364.4	10582.3	10693.2	10697.0	10681.7	10628.2	10601.4	10605.3
9622.7	12.5°	9905.6	10173.2	10536.4	10719.9	10750.5	10666.4	10601.4	10509.7	10475.3	10460.0
9725.9	15°	10066.2	10372.0	10723.8	10792.6	10716.1	10609.1	10498.2	10349.1	10272.6	10211.5
9901.8	17.5°	10261.2	10597.6	10869.0	10819.3	10655.0	10479.1	10299.4	10073.8	9917.1	9852.1
10142.7	20°	10532.6	10834.6	10979.9	10762.0	10513.5	10245.9	9940.0	9664.8	9519.5	9454.5
10448.5	22.5°	10861.4	11152.0	11087.0	10662.6	10310.9	9882.7	9500.4	9297.8	9225.1	9179.2
10842.3	25°	11255.2	11503.7	11163.4	10517.3	9978.3	9401.0	9106.6	9041.6	9007.2	8972.8
11324.0	27.5°	11767.5	11901.3	11220.8	10303.2	9458.3	8888.7	8781.6	8793.1	8781.6	8724.3
11993.0	30°	12444.2	12417.4	11274.3	9955.3	8861.9	8426.1	8433.7	8483.4	8491.1	8452.9
12925.9	32.5°	13334.9	13063.5	11301.1	9504.2	8292.3	8020.8	8028.5	8082.0	8120.2	8055.3
14145.4	35°	14413.1	13816.6	11259.0	8938.4	7852.6	7634.7	7577.4	7592.7	7604.1	7543.0
15625.0	37.5°	15670.8	14661.6	11071.7	8311.4	7489.4	7256.2	7133.9	7030.7	6969.5	6912.1
17299.5	40°	17051.0	15582.9	10727.6	7699.7	7084.2	6854.8	6671.3	6476.3	6269.9	6193.4
19073.4	42.5°	18496.1	16531.0	10310.9	7114.8	6617.8	6430.4	6235.5	5952.6	5642.9	5486.1
20916.1	45°	19994.8	17502.1	9901.8	6537.5	6139.9	6059.6	5834.0	5493.8	5157.3	4958.5
22762.7	47.5°	21462.8	18419.7	9301.6	5956.4	5692.6	5780.5	5604.7	5291.2	4916.5	4603.0
24593.9	50°	22865.9	19279.8	8319.0	5367.6	5329.4	5696.4	5528.2	5077.1	4648.9	4247.5
26390.8	52.5°	24257.5	19975.6	7061.2	4832.4	5134.4	5673.5	5428.8	4931.8	4408.0	3987.5
28080.6	55°	25438.8	20335.0	5849.3	4373.6	4851.5	5478.5	5310.3	4759.7	4067.8	3620.5
29239.0	57.5°	26111.7	20044.5	4840.0	3922.5	4461.5	5157.3	5107.6	4392.7	3662.5	3318.4
29464.6	60°	25821.2	18867.0	4014.2	3528.7	4090.7	4809.4	4755.9	4029.5	3352.9	3027.9
28256.5	62.5°	24219.3	16622.8	3360.5	3184.6	3754.3	4453.9	4404.2	3750.5	3115.8	2802.3
25048.9	65°	20992.6	13522.3	2852.0	2897.9	3414.0	4025.7	4098.4	3517.2	2928.5	2622.6
19379.2	67.5°	16011.1	9794.8	2454.4	2649.4	3081.4	3605.2	3815.4	3349.0	2771.7	2481.2
11213.1	70°	9125.7	5562.6	2118.0	2408.5	2787.0	3215.2	3597.5	3215.2	2603.5	2362.7
4201.6	72.5°	3459.9	2553.8	1831.3	2167.7	2504.1	2886.4	3356.7	3004.9	2408.5	2228.9
2171.5	75°	1846.6	1556.0	1540.7	1884.8	2179.2	2565.3	3054.6	2798.5	2263.3	2355.0
1502.5	77.5°	1257.8	1101.1	1288.4	1613.3	1823.6	2209.7	2733.5	2485.0	1961.2	1953.6
1039.9	80°	871.7	779.9	1047.5	1299.9	1410.7	1858.0	2385.6	2133.3	1598.1	1491.0
642.3	82.5°	523.8	508.5	783.7	971.1	997.8	1433.7	1976.5	1789.2	1307.5	1139.3
382.3	85°	286.7	302.0	500.8	569.6	581.1	1001.6	1548.4	1384.0	1005.5	844.9
137.6	87.5°	80.3	103.2	183.5	225.6	279.1	519.9	921.4	822.0	504.6	351.7
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>
9423.9
10115.9
10555.6
10681.7
10612.9
10452.3
10230.6
9855.9
9446.9
9186.9
8972.8
8735.8
8472.0
8085.8
7585.0
6950.4
6227.8
5505.3
4943.3
4568.6
4213.0
3941.6
3582.2
3272.6
2982.0
2752.6
2572.9
2435.3
2332.1
2198.3
2431.5
1800.7
1426.0
1146.9
852.5
351.7
0.0

F REPORT)