

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: P941679

Luminaire Tested: **GALN-SB5B-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941679  
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-SB5B-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

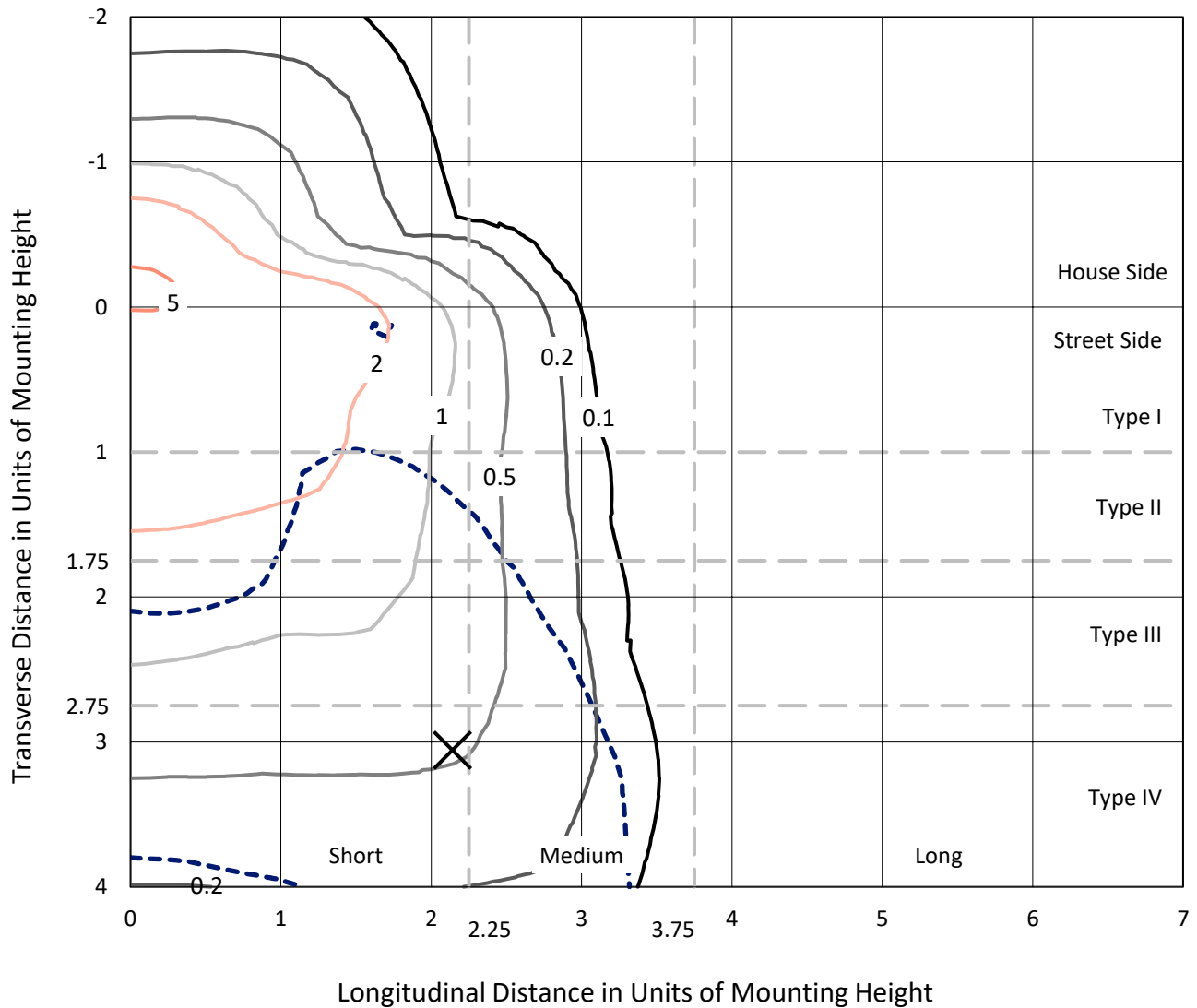
Lumens per Lamp: N/A  
Luminaire Lumens: 24447 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P941679  
 CATALOG NUMBER: GALN-SB5B-827-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

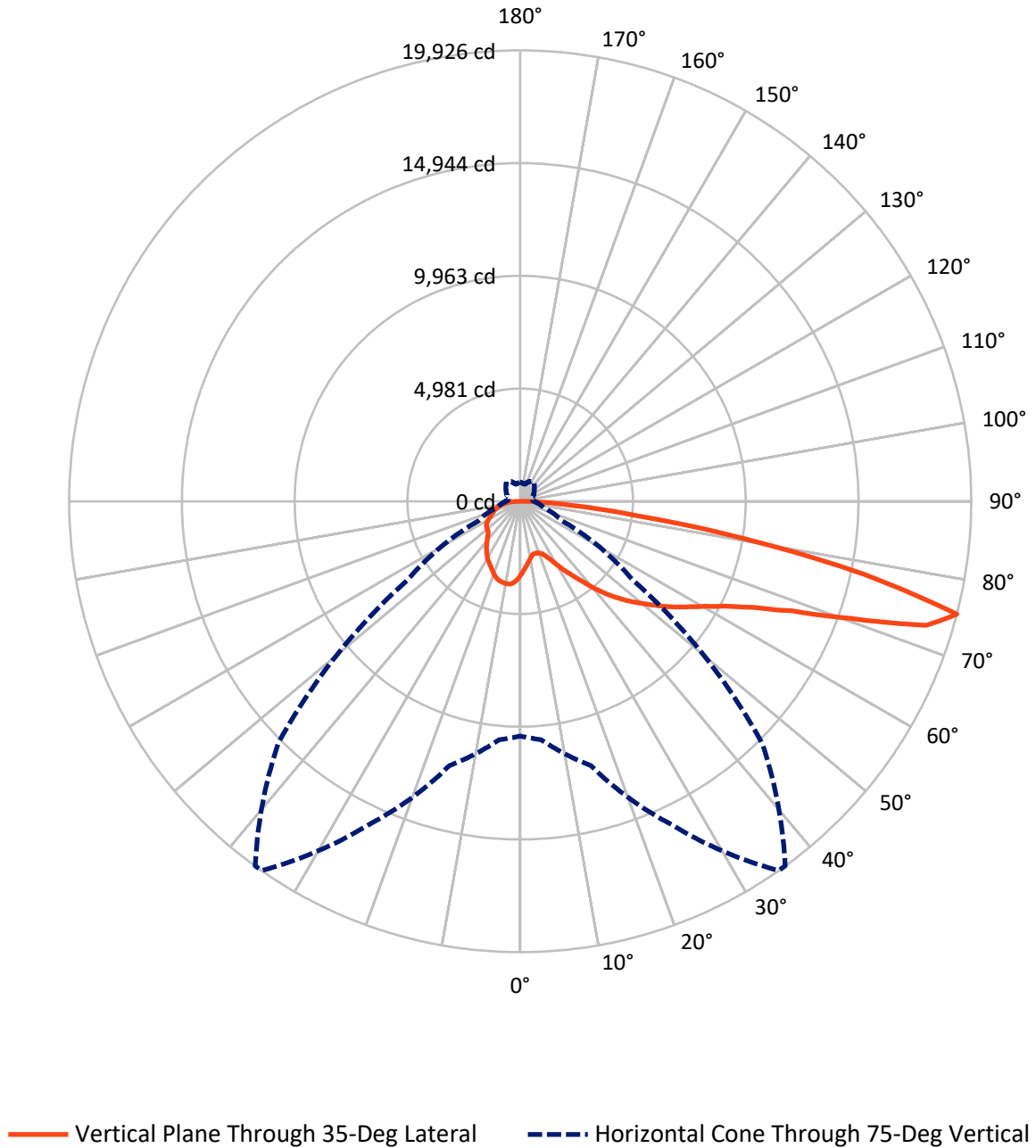
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P941679  
CATALOG NUMBER: GALN-SB5B-827-U-T4FT

### Luminous Intensity Polar Plot



REPORT NUMBER: P941679

CATALOG NUMBER: GALN-SB5B-827-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5817.8	0.0	5817.8
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	18629.2	0.0	18629.2
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	24447.0	0.0	24447.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.4	1.3
10°-20°	889.7	3.6
20°-30°	1494.0	6.1
30°-40°	2321.9	9.5
40°-50°	3446.3	14.1
50°-60°	4757.8	19.5
60°-70°	5772.3	23.6
70°-80°	4770.4	19.5
80°-90°	686.1	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°	24447.0	100.0
0°-180°	24447.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P941679

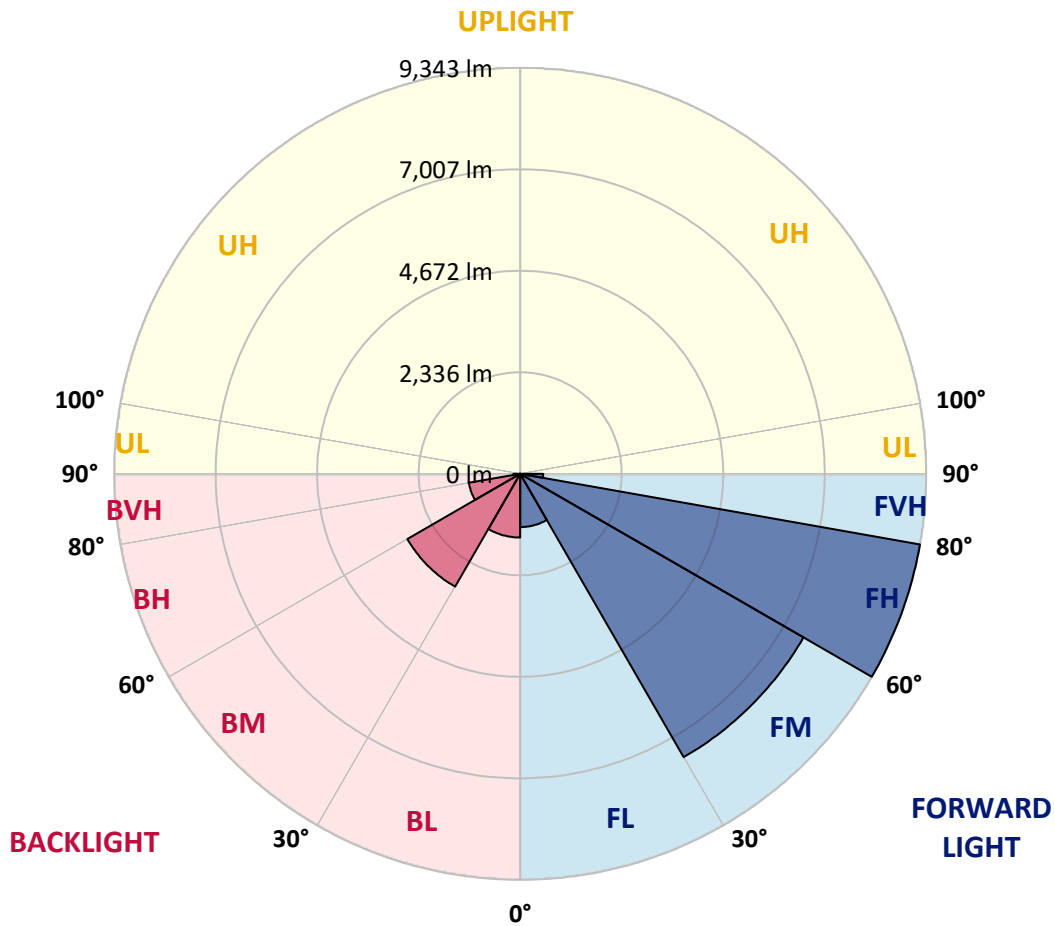
CATALOG NUMBER: GALN-SB5B-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.0	5.0			
FM (30°-60°)	7528.4	30.8			
FH (60°-80°)	9343.3	38.2			G4/12000
FVH (80°-90°)	531.6	2.2			G4/750
BL (0°-30°)	1466.2	6.0	B3/2500		
BM (30°-60°)	2997.7	12.3	B3/5000		
BH (60°-80°)	1199.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	154.5	0.6			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 IV Short



REPORT NUMBER: P941679  
 CATALOG NUMBER: GALN-SB5B-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7
2.5°	3004.0	3022.5	3030.4	3026.4	3046.3	3043.6	3071.4	3105.7	3153.3	3199.6
5°	2772.7	2792.5	2809.7	2825.6	2863.9	2875.8	2919.4	2985.5	3072.7	3161.3
7.5°	2557.3	2574.5	2600.9	2630.0	2694.7	2706.6	2779.3	2882.4	3004.0	3133.5
10°	2381.5	2398.7	2426.4	2459.5	2540.1	2554.6	2647.2	2784.6	2943.2	3107.1
12.5°	2306.2	2311.5	2327.3	2360.4	2430.4	2439.7	2541.4	2698.7	2883.7	3087.2
15°	2302.2	2312.8	2314.1	2331.3	2389.4	2393.4	2487.2	2643.2	2846.7	3083.3
17.5°	2341.9	2349.8	2337.9	2348.5	2397.4	2404.0	2478.0	2616.8	2834.8	3100.5
20°	2447.6	2454.2	2418.5	2404.0	2439.7	2444.9	2517.6	2633.9	2846.7	3136.1
22.5°	2672.3	2676.2	2589.0	2529.5	2532.2	2534.8	2598.3	2704.0	2893.0	3200.9
25°	3022.5	3019.8	2881.1	2766.1	2700.0	2685.5	2727.8	2817.6	2970.9	3286.8
27.5°	3432.2	3412.4	3273.6	3101.8	2957.7	2936.6	2927.3	2965.7	3082.0	3400.5
30°	3894.7	3876.2	3726.9	3502.2	3302.7	3268.3	3181.1	3161.3	3247.2	3555.1
32.5°	4402.2	4390.3	4211.9	3939.7	3672.7	3633.1	3486.4	3433.5	3500.9	3789.0
35°	4827.8	4817.2	4669.2	4389.0	4062.6	4013.7	3864.3	3804.9	3839.2	4089.0
37.5°	5212.4	5207.1	5080.2	4859.5	4522.5	4463.0	4295.2	4275.4	4268.7	4484.2
40°	5569.2	5556.0	5423.8	5307.5	5057.7	5003.6	4855.5	4838.4	4788.1	4970.5
42.5°	5964.4	5930.0	5738.4	5684.2	5616.8	5571.8	5483.3	5485.9	5374.9	5519.0
45°	6286.8	6267.0	6070.1	6038.4	6111.0	6092.5	6169.2	6189.0	5973.6	6093.9
47.5°	6633.1	6614.6	6448.1	6425.6	6622.5	6627.8	6898.7	6905.3	6557.7	6691.2
50°	7060.0	7033.5	6868.3	6896.1	7116.8	7136.6	7632.2	7587.3	7095.6	7297.8
52.5°	7341.5	7357.3	7321.6	7366.6	7667.9	7686.4	8353.8	8238.8	7628.2	7896.5
55°	7548.9	7580.7	7691.7	7794.8	8249.4	8267.9	9034.4	8858.6	8069.7	8451.6
57.5°	7815.9	7771.0	7978.5	8179.3	8801.8	8850.7	9696.5	9456.0	8460.8	8930.0
60°	8199.2	8167.4	8328.7	8626.0	9420.3	9498.3	10397.0	9993.9	8747.6	9309.3
62.5°	8976.3	8897.0	8922.1	9185.1	10200.1	10303.1	11187.3	10463.1	8890.4	9457.3
65°	10137.9	10001.8	9874.9	10057.3	11298.3	11400.1	12079.4	10831.8	8837.5	9170.5
67.5°	11600.9	11466.1	11310.2	11482.0	12915.9	12996.6	13180.3	11039.3	8421.2	8065.7
70°	12807.6	12757.3	12943.7	13650.7	15499.6	15502.3	14591.7	10867.5	7280.7	5718.5
72.5°	12647.7	12617.3	13599.2	15785.1	18756.1	18686.0	15927.8	9567.0	4904.4	2579.8
75°	10375.8	10572.7	12093.9	15746.8	19925.7	19916.4	15109.8	6082.0	2028.6	1069.2
77.5°	5563.9	5875.8	7851.6	11626.1	15555.2	15789.1	10623.0	2127.8	870.9	684.6
80°	1814.5	2086.8	3129.5	5919.4	10107.5	10063.9	4552.9	835.2	596.0	485.0
82.5°	770.5	802.2	1398.2	2795.2	5187.3	5106.6	1449.8	479.7	418.9	331.7
85°	301.3	337.0	617.2	1292.5	2246.7	2197.8	523.4	237.9	268.3	216.7
87.5°	99.1	120.3	220.7	442.7	699.1	674.0	128.2	81.9	116.3	99.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941679  
 CATALOG NUMBER: GALN-SB5B-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3257.7	0°	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7	3257.7
3267.0	2.5°	3285.5	3306.6	3331.7	3368.7	3400.5	3426.9	3454.6	3471.8	3478.4	3498.3
3272.3	5°	3309.3	3355.5	3417.6	3478.4	3537.9	3573.6	3605.3	3621.2	3635.7	3646.3
3286.8	7.5°	3348.9	3408.4	3506.2	3585.5	3635.7	3664.8	3685.9	3680.6	3685.9	3688.6
3302.7	10°	3383.3	3466.5	3582.8	3658.2	3696.5	3697.8	3692.5	3674.0	3664.8	3666.1
3326.5	12.5°	3424.2	3516.8	3642.3	3705.7	3716.3	3687.2	3664.8	3633.1	3621.2	3615.9
3362.1	15°	3479.8	3585.5	3707.1	3730.9	3704.4	3667.4	3629.1	3577.6	3551.1	3530.0
3422.9	17.5°	3547.2	3663.5	3757.3	3740.1	3683.3	3622.5	3560.4	3482.4	3428.2	3405.7
3506.2	20°	3641.0	3745.4	3795.6	3720.3	3634.4	3541.9	3436.1	3341.0	3290.8	3268.3
3611.9	22.5°	3754.6	3855.1	3832.6	3685.9	3564.3	3416.3	3284.2	3214.1	3189.0	3173.1
3748.0	25°	3890.8	3976.7	3859.1	3635.7	3449.4	3249.8	3148.0	3125.6	3113.7	3101.8
3914.6	27.5°	4067.9	4114.1	3878.9	3561.7	3269.6	3072.7	3035.7	3039.7	3035.7	3015.9
4145.8	30°	4301.8	4292.5	3897.4	3441.4	3063.5	2912.8	2915.4	2932.6	2935.3	2922.0
4468.3	32.5°	4609.7	4515.9	3906.6	3285.5	2866.5	2772.7	2775.3	2793.8	2807.1	2784.6
4889.9	35°	4982.4	4776.2	3892.1	3089.9	2714.6	2639.2	2619.4	2624.7	2628.6	2607.5
5401.4	37.5°	5417.2	5068.3	3827.3	2873.1	2589.0	2508.4	2466.1	2430.4	2409.3	2389.4
5980.2	40°	5894.3	5386.8	3708.4	2661.7	2448.9	2369.6	2306.2	2238.8	2167.4	2141.0
6593.4	42.5°	6393.9	5714.6	3564.3	2459.5	2287.7	2222.9	2155.5	2057.7	1950.7	1896.5
7230.4	45°	6911.9	6050.3	3422.9	2259.9	2122.5	2094.7	2016.8	1899.1	1782.8	1714.1
7868.8	47.5°	7419.4	6367.4	3215.4	2059.0	1967.9	1998.2	1937.5	1829.1	1699.6	1591.2
8501.8	50°	7904.5	6664.8	2875.8	1855.5	1842.3	1969.2	1911.0	1755.1	1607.1	1468.3
9123.0	52.5°	8385.5	6905.3	2441.0	1670.5	1774.9	1961.2	1876.7	1704.9	1523.8	1378.4
9707.1	55°	8793.9	7029.6	2022.0	1511.9	1677.1	1893.8	1835.7	1645.4	1406.2	1251.5
10107.5	57.5°	9026.5	6929.1	1673.1	1356.0	1542.3	1782.8	1765.6	1518.5	1266.1	1147.1
10185.5	60°	8926.0	6522.1	1387.7	1219.8	1414.1	1662.6	1644.1	1393.0	1159.0	1046.7
9767.9	62.5°	8372.3	5746.3	1161.7	1100.9	1297.8	1539.7	1522.5	1296.5	1077.1	968.7
8659.1	65°	7256.9	4674.5	985.9	1001.8	1180.2	1391.6	1416.7	1215.9	1012.3	906.6
6699.2	67.5°	5534.8	3385.9	848.5	915.9	1065.2	1246.3	1319.0	1157.7	958.2	857.7
3876.2	70°	3154.6	1922.9	732.2	832.6	963.4	1111.5	1243.6	1111.5	900.0	816.7
1452.4	72.5°	1196.0	882.8	633.0	749.3	865.6	997.8	1160.4	1038.8	832.6	770.5
750.7	75°	638.3	537.9	532.6	651.5	753.3	886.8	1056.0	967.4	782.4	814.1
519.4	77.5°	434.8	380.6	445.4	557.7	630.4	763.9	944.9	859.0	678.0	675.3
359.5	80°	301.3	269.6	362.1	449.3	487.7	642.3	824.7	737.4	552.4	515.4
222.0	82.5°	181.1	175.8	270.9	335.7	344.9	495.6	683.3	618.5	452.0	393.8
132.2	85°	99.1	104.4	173.1	196.9	200.9	346.3	535.2	478.4	347.6	292.1
47.6	87.5°	27.8	35.7	63.4	78.0	96.5	179.7	318.5	284.1	174.5	121.6
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>
3257.7
3496.9
3648.9
3692.5
3668.7
3613.2
3536.6
3407.1
3265.7
3175.8
3101.8
3019.8
2928.7
2795.2
2622.0
2402.7
2152.9
1903.1
1708.8
1579.3
1456.4
1362.6
1238.3
1131.3
1030.8
951.5
889.4
841.9
806.2
759.9
<i>840.5</i>
622.5
493.0
396.5
294.7
121.6
0.0

F REPORT)