

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: P954624

Luminaire Tested: **GALN-SB7D-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61503 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

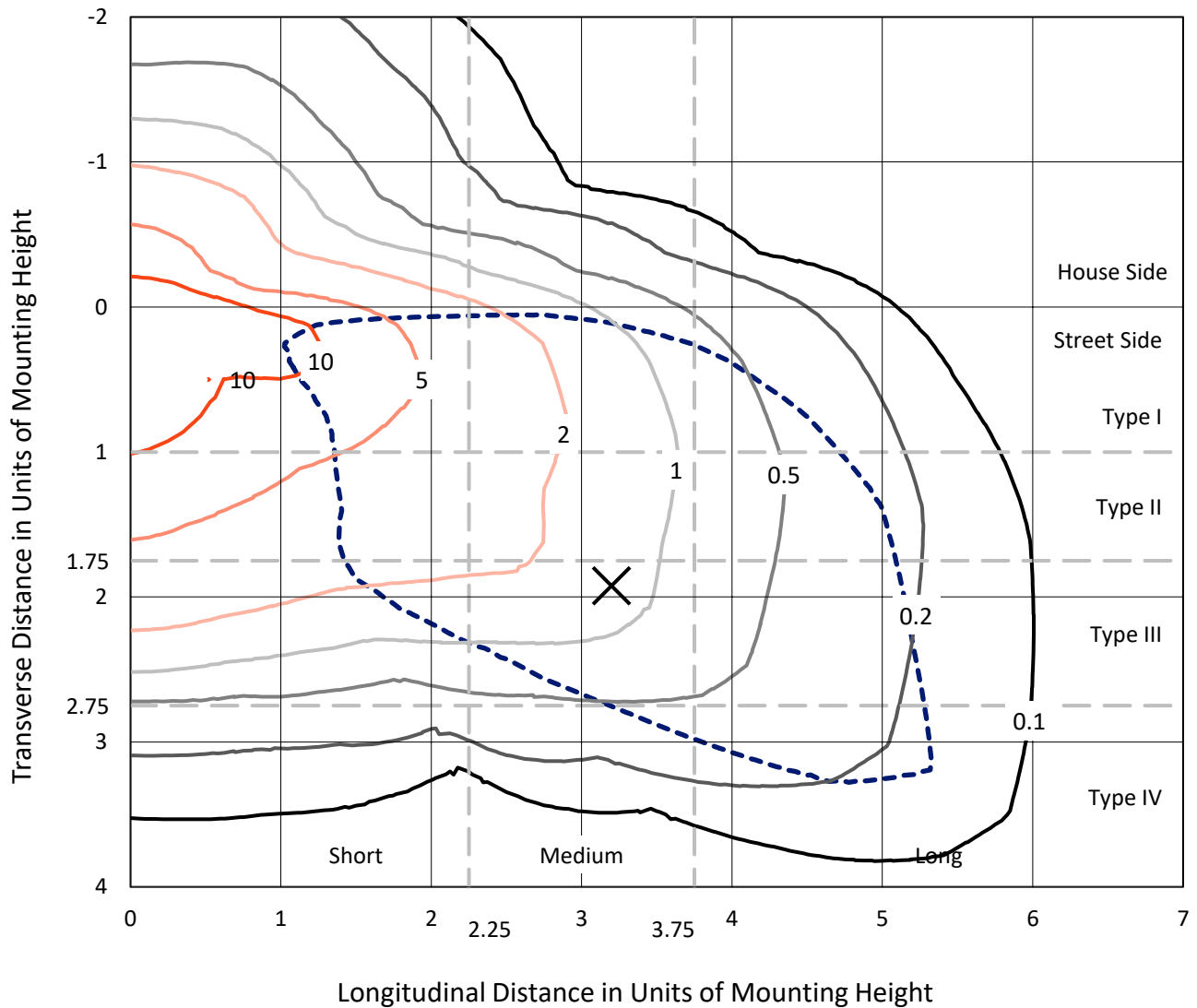
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954624
 CATALOG NUMBER: GALN-SB7D-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

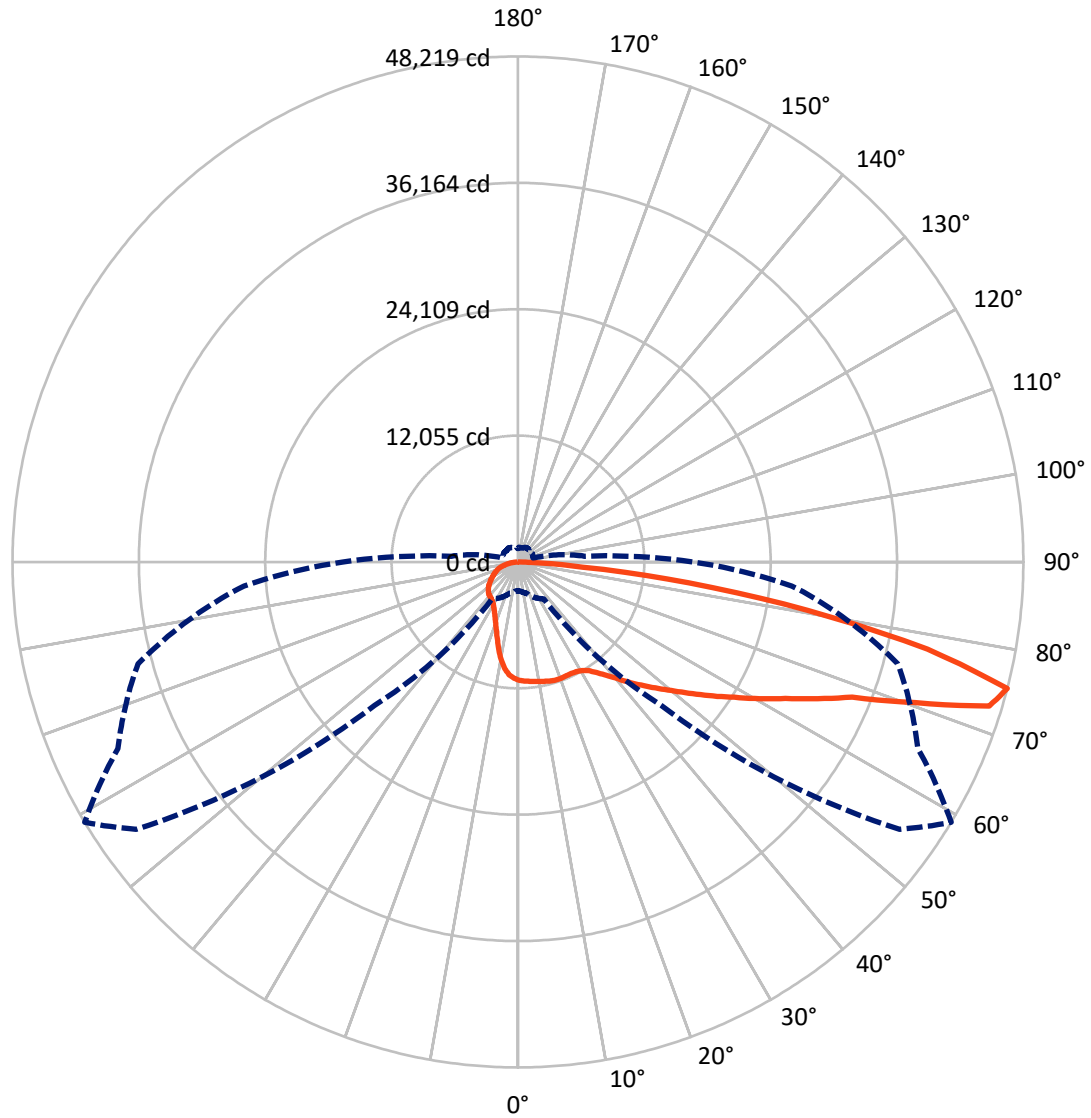
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P954624
CATALOG NUMBER: GALN-SB7D-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P954624
 CATALOG NUMBER: GALN-SB7D-827-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11535.3	0.0	11535.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	49967.7	0.0	49967.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	61503.0	0.0	61503.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.2	1.6
10°-20°	2587.3	4.2
20°-30°	3929.9	6.4
30°-40°	5841.7	9.5
40°-50°	8687.6	14.1
50°-60°	11792.4	19.2
60°-70°	14396.6	23.4
70°-80°	11298.2	18.4
80°-90°	1957.1	3.2
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°	61503.0	100.0
0°-180°	61503.0	100.0



REPORT NUMBER: P954624

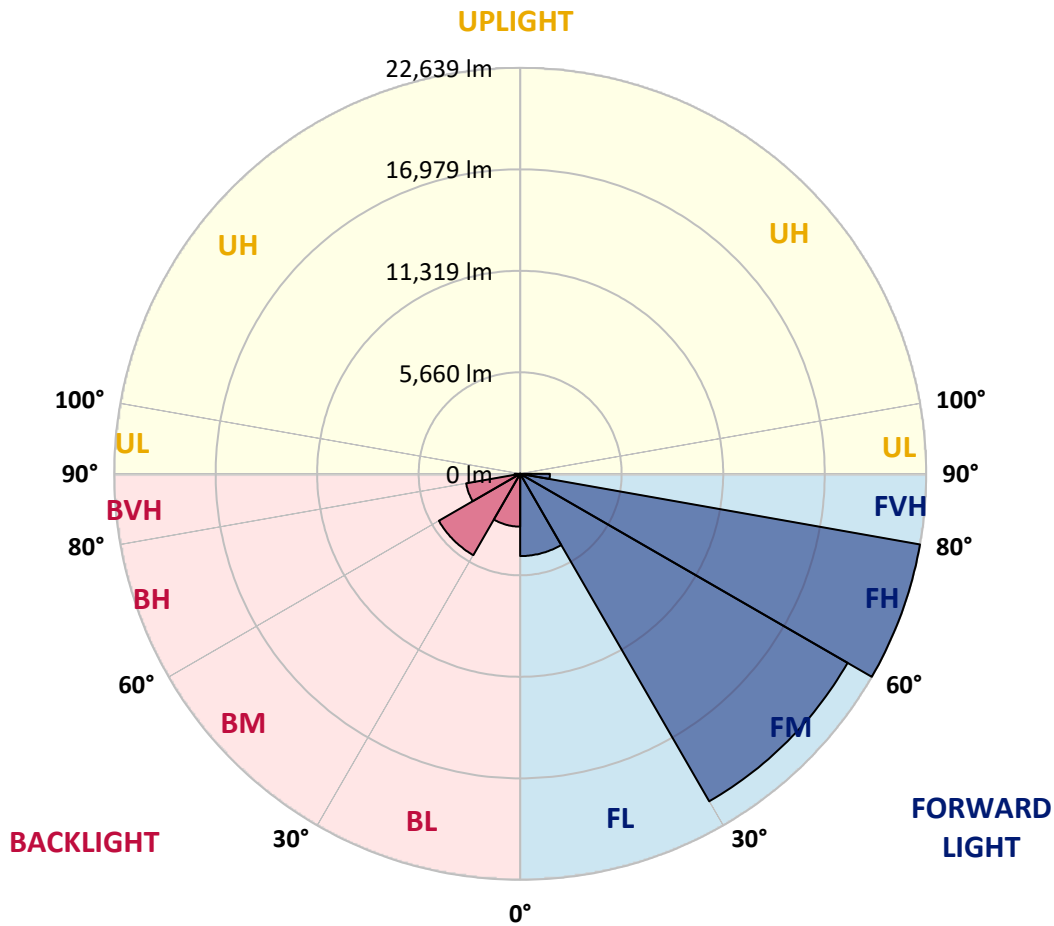
CATALOG NUMBER: GALN-SB7D-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4585.7	7.5			
FM (30°-60°)	21085.8	34.3			
FH (60°-80°)	22638.6	36.8			G5
FVH (80°-90°)	1657.5	2.7			G5
BL (0°-30°)	2943.7	4.8	B4/5000		
BM (30°-60°)	5235.9	8.5	B4/8500		
BH (60°-80°)	3056.1	5.0	B4/5000		G4/5000
BVH (80°-90°)	299.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P954624

CATALOG NUMBER: GALN-SB7D-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7
2.5°	11384.7	11345.0	11384.7	11368.1	11361.5	11348.3	11351.6	11374.8	11361.5	11378.1
5°	11308.6	11285.4	11325.1	11315.2	11358.2	11364.8	11407.8	11434.3	11450.9	11454.2
7.5°	11182.9	11159.7	11216.0	11262.3	11354.9	11381.4	11470.7	11513.7	11536.9	11576.6
10°	10723.0	10713.1	10852.0	11027.4	11245.7	11381.4	11517.0	11589.8	11626.2	11732.1
12.5°	9909.1	9922.3	10104.3	10441.8	10878.5	11315.2	11570.0	11675.8	11732.1	11864.4
15°	9131.6	9128.3	9326.8	9687.4	10299.5	11024.1	11596.4	11778.4	11874.4	12069.6
17.5°	8681.6	8668.4	8807.3	9081.9	9651.0	10577.4	11530.3	11834.6	12039.8	12284.6
20°	8598.9	8572.4	8645.2	8780.9	9184.5	10087.7	11358.2	11834.6	12172.1	12489.7
22.5°	8900.0	8857.0	8827.2	8810.6	8989.3	9684.1	11163.0	11794.9	12367.3	12784.2
25°	9505.4	9439.3	9287.1	9138.2	9085.3	9502.1	10991.0	11785.0	12658.5	13181.2
27.5°	10484.8	10402.0	10094.4	9737.0	9416.1	9594.8	10914.9	11844.6	12979.4	13601.4
30°	11699.0	11609.7	11222.6	10673.4	10097.7	9938.9	11010.8	12019.9	13389.7	14160.6
32.5°	12787.5	12688.3	12357.4	11798.3	11020.7	10534.4	11315.2	12354.1	14034.8	14938.1
35°	13753.6	13637.8	13340.0	12823.9	12152.3	11371.5	11864.4	12946.3	14951.3	16201.9
37.5°	14699.8	14564.2	14240.0	13694.0	13224.2	12486.4	12622.1	13707.3	16168.8	17737.1
40°	15758.6	15563.4	15169.7	14630.4	14173.8	13793.3	13618.0	14640.3	17406.2	19450.9
42.5°	16784.2	16598.9	16129.1	15669.2	15096.9	14987.7	14772.6	15732.1	18759.4	21333.5
45°	17889.3	17667.6	17098.5	16516.2	16155.6	15781.7	15890.9	16823.9	20086.1	23252.4
47.5°	18924.8	18676.7	18005.1	17356.6	17158.1	16450.1	16916.6	18024.9	21465.8	25197.8
50°	19484.0	19239.2	18680.0	18094.4	17938.9	17273.9	18028.2	19345.0	22911.6	27136.6
52.5°	19950.5	19685.8	18954.6	18630.4	18584.1	18170.5	19398.0	20853.7	24357.5	28850.5
55°	20446.8	20152.3	19219.3	18928.2	19139.9	19176.3	21022.5	22564.2	25886.0	30521.3
57.5°	21019.2	20645.3	19474.1	19179.6	19682.5	20354.1	22888.5	24337.6	27388.1	32069.7
60°	21558.4	21181.3	19963.7	19579.9	20268.1	21720.6	25029.1	26484.9	29088.7	33449.3
62.5°	21664.3	21353.3	20354.1	20350.8	21062.2	23315.3	27563.4	28652.0	30574.2	34812.5
65°	19831.4	19636.2	19044.0	20321.1	22200.3	25611.4	30385.6	31424.5	32463.4	36003.5
67.5°	15093.6	15120.0	15077.0	17541.9	21280.5	28910.0	34471.7	34392.3	34795.9	37340.2
70°	6901.6	7057.1	8069.5	12109.3	17048.9	29290.5	41227.7	40198.8	37724.0	39070.5
72.5°	3728.7	3847.8	4261.4	5866.0	10249.9	26041.5	46276.5	47007.7	41618.1	40235.2
75°	2736.2	2802.3	3090.2	3728.7	4304.4	19355.0	44466.8	48218.7	42104.5	37518.8
77.5°	2048.0	2077.8	2312.7	2954.5	2203.5	10203.5	35530.4	39934.1	36043.2	30825.7
80°	1485.5	1518.6	1694.0	2216.7	1545.1	3732.0	24397.2	28030.0	24685.0	19649.4
82.5°	1025.6	1038.9	1115.0	1508.7	1078.6	1449.1	13842.9	16436.8	13780.1	6895.0
85°	618.7	635.2	668.3	880.1	612.1	688.2	5975.2	6180.4	4119.1	1647.7
87.5°	254.8	271.3	297.8	370.6	241.5	191.9	985.9	1237.4	770.9	483.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954624
 CATALOG NUMBER: GALN-SB7D-827-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11288.7	0°	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7
11321.8	2.5°	11305.3	11282.1	11219.3	11133.2	11053.8	10954.6	10911.6	10875.2	10842.1	10779.2
11411.2	5°	11374.8	11311.9	11143.2	10924.8	10676.7	10405.4	10140.7	9958.7	9803.2	9687.4
11513.7	7.5°	11480.6	11361.5	11053.8	10607.2	10038.1	9455.8	8929.7	8555.9	8274.7	8172.1
11659.3	10°	11589.8	11447.5	10911.6	10124.1	9141.5	8244.9	7546.8	7163.0	6938.0	6865.2
11831.3	12.5°	11718.8	11510.4	10689.9	9452.5	8139.0	7156.4	6547.6	6322.6	6206.8	6167.1
12043.1	15°	11907.4	11563.3	10355.7	8612.1	7182.8	6362.3	5968.6	5813.1	5753.6	5750.2
12261.4	17.5°	12049.7	11573.3	9836.3	7712.2	6448.3	5882.6	5558.3	5498.8	5538.5	5598.0
12476.5	20°	12208.5	11483.9	9154.7	6891.7	5932.2	5462.4	5326.7	5366.5	5462.4	5548.4
12761.0	22.5°	12321.0	11321.8	8330.9	6253.1	5485.6	5220.9	5214.3	5297.0	5349.9	5392.9
13095.2	25°	12420.3	11047.2	7457.4	5717.2	5118.3	5075.3	5148.1	5121.6	5085.2	5121.6
13429.4	27.5°	12493.0	10613.8	6676.6	5247.3	4860.2	4976.0	4933.0	4873.5	4870.2	4890.0
13823.1	30°	12469.9	10034.8	6034.8	4800.7	4678.3	4790.8	4688.2	4678.3	4668.3	4678.3
14415.3	32.5°	12469.9	9376.4	5541.8	4493.0	4562.5	4519.5	4509.5	4486.4	4446.7	4443.4
15219.3	35°	12539.4	8718.0	5118.3	4327.6	4466.5	4364.0	4370.6	4314.3	4231.6	4191.9
16284.6	37.5°	12681.6	8188.6	4698.1	4248.2	4297.8	4294.5	4268.0	4172.1	4026.5	3900.8
17614.7	40°	13025.7	8033.1	4410.3	4211.8	4218.4	4258.1	4188.6	4003.3	3672.5	3467.3
18964.6	42.5°	13565.0	8294.5	4347.4	4122.4	4165.5	4205.2	4069.5	3639.4	3404.5	3282.1
20380.6	45°	14249.9	8751.1	4483.1	3993.4	4039.7	4109.2	3705.6	3500.4	3394.6	3397.9
21783.4	47.5°	15116.7	9230.8	4734.5	3880.9	3857.8	3897.5	3464.0	3338.3	3192.7	3229.1
23130.0	50°	16119.2	9717.2	4972.7	3728.7	3655.9	3526.9	3308.5	3189.4	3004.2	2918.1
24430.3	52.5°	17204.4	10187.0	5068.7	3543.4	3437.6	3288.7	3202.7	3057.1	2832.1	2689.8
25657.7	55°	18233.4	10613.8	4962.8	3321.8	3219.2	3103.4	3090.2	3000.8	2759.3	2560.8
26749.5	57.5°	19206.1	10971.1	4698.1	3096.8	2997.5	2928.1	3017.4	2974.4	2670.0	2415.2
27781.8	60°	20029.9	11216.0	4314.3	2868.5	2799.0	2762.6	2898.3	2885.0	2544.3	2259.7
28708.2	62.5°	20685.0	11311.9	3890.8	2650.1	2633.6	2567.4	2732.9	2732.9	2385.5	2107.5
29522.1	65°	21197.8	11219.3	3460.7	2435.1	2468.2	2368.9	2531.0	2511.2	2216.7	1971.9
30458.4	67.5°	21651.1	10914.9	2984.3	2223.3	2299.4	2173.7	2319.3	2273.0	2031.4	1836.2
31269.0	70°	21852.9	10206.8	2441.7	2011.6	2104.2	1981.8	2107.5	2021.5	1823.0	1690.7
30379.0	72.5°	20231.7	8483.1	1922.3	1789.9	1869.3	1770.1	1879.3	1780.0	1598.0	1538.5
26233.4	75°	16737.9	6365.6	1478.9	1548.4	1608.0	1531.9	1604.6	1531.9	1366.4	1409.4
19378.1	77.5°	12155.6	4297.8	1131.5	1293.6	1320.1	1280.4	1343.3	1260.6	1111.7	1101.7
9657.6	80°	6044.7	2517.8	886.7	1022.3	1012.4	985.9	1058.7	1019.0	893.3	946.2
2607.1	82.5°	1750.2	1078.6	645.2	718.0	698.1	704.7	757.7	777.5	1164.6	1154.7
810.6	85°	549.2	423.5	387.1	400.3	380.5	390.4	446.7	886.7	820.5	479.7
251.4	87.5°	142.3	145.6	95.9	102.6	105.9	125.7	142.3	539.3	258.1	168.7
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>
11288.7
10749.4
9591.5
7993.4
6752.7
6177.0
5763.5
5621.2
5578.2
5416.1
5144.8
4923.1
4714.7
4486.4
4231.6
3943.8
3493.8
3282.1
3414.4
3321.8
2941.3
2686.5
2560.8
2402.0
2249.8
2097.6
1958.7
1823.0
1664.2
1488.8
<i>1287.0</i>
1052.1
936.3
1181.1
519.4
178.7
0.0

F REPORT)