

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: P951705

Luminaire Tested: **GALN-SB5D-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951705
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-SB5D-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 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: 53151 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

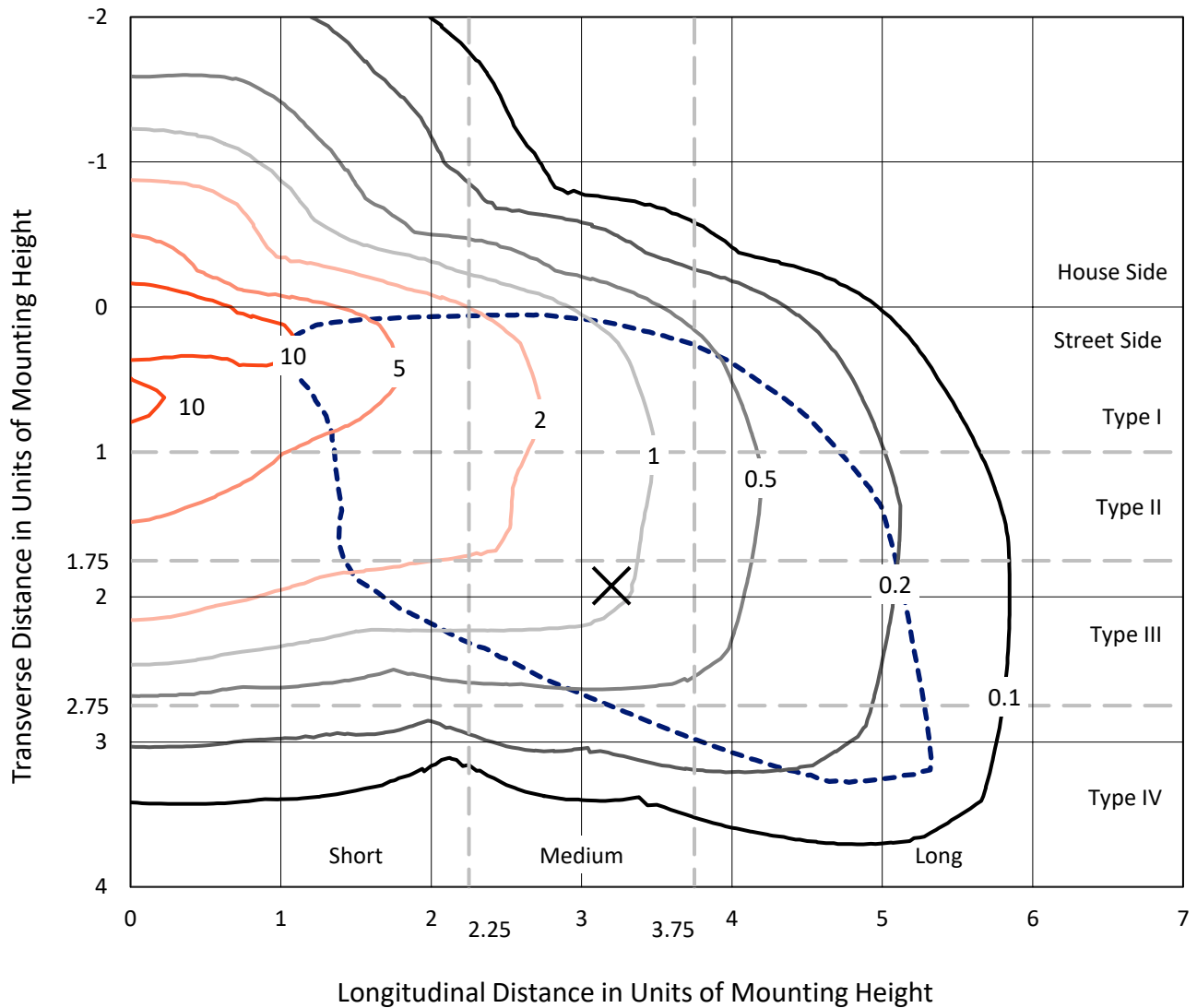
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951705
 CATALOG NUMBER: GALN-SB5D-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

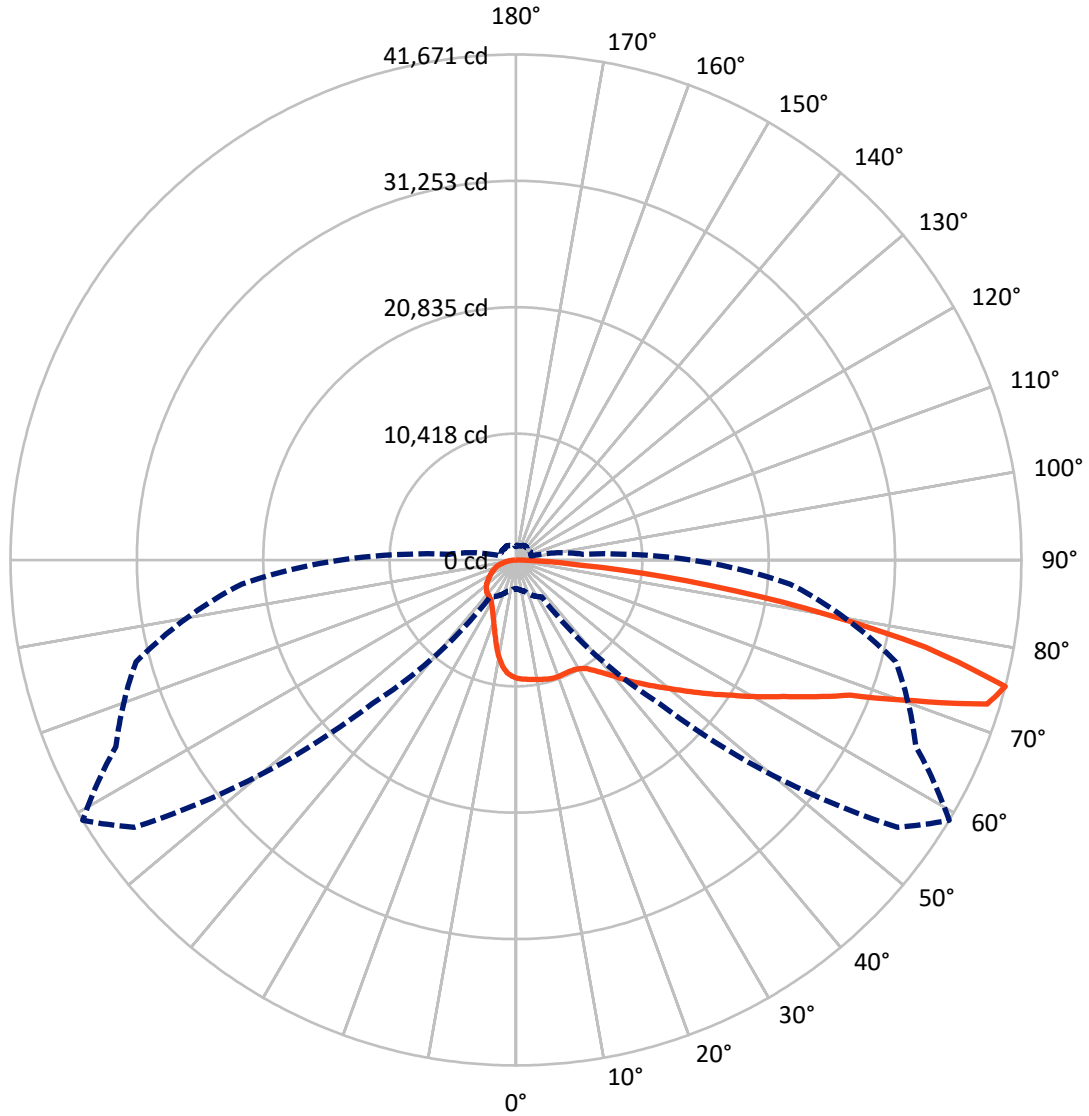
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P951705
CATALOG NUMBER: GALN-SB5D-740-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951705
 CATALOG NUMBER: GALN-SB5D-740-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9968.8	0.0	9968.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	43182.2	0.0	43182.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	53151.0	0.0	53151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.8	1.6
10°-20°	2235.9	4.2
20°-30°	3396.2	6.4
30°-40°	5048.4	9.5
40°-50°	7507.8	14.1
50°-60°	10191.0	19.2
60°-70°	12441.5	23.4
70°-80°	9764.0	18.4
80°-90°	1691.4	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°	53151.0	100.0
0°-180°	53151.0	100.0

Coefficient of Utilization

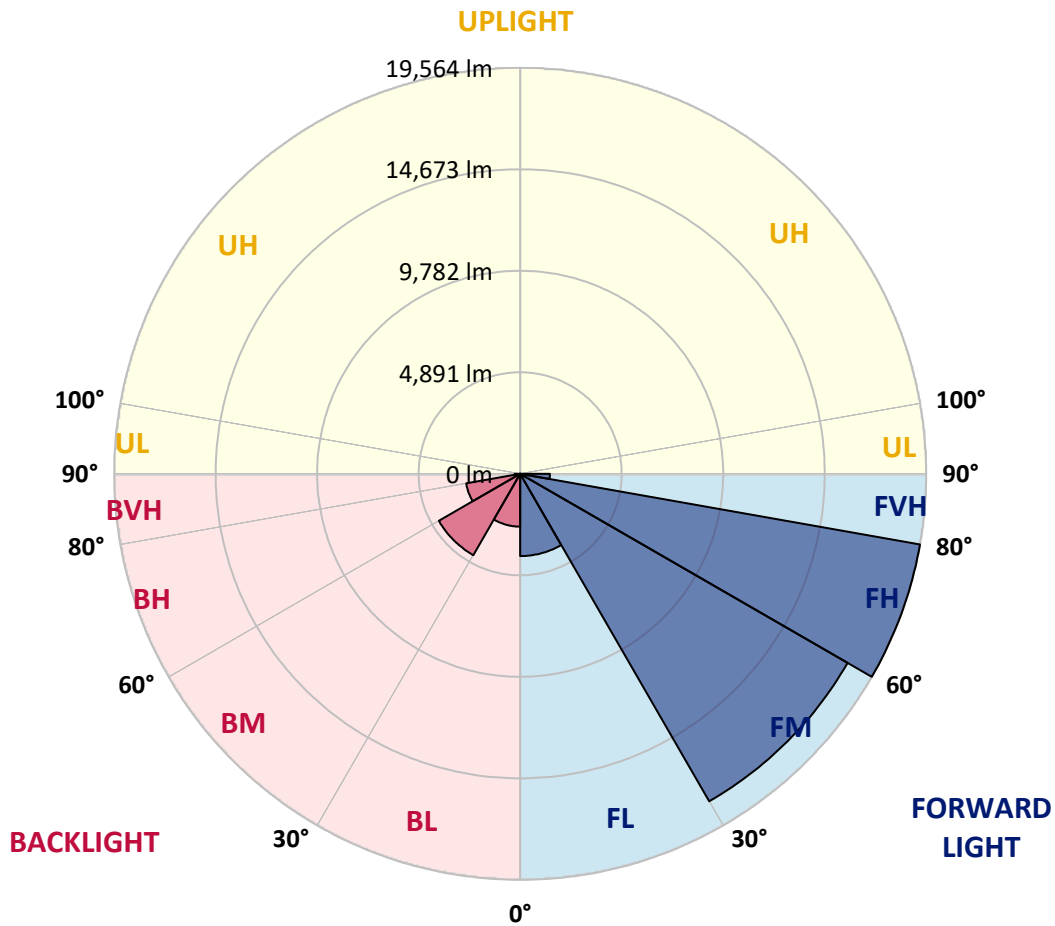


REPORT NUMBER: P951705
 CATALOG NUMBER: GALN-SB5D-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3963.0	7.5			
FM (30°-60°)	18222.4	34.3			
FH (60°-80°)	19564.4	36.8			G5
FVH (80°-90°)	1432.5	2.7			G5
BL (0°-30°)	2543.9	4.8	B4/5000		
BM (30°-60°)	4524.9	8.5	B3/5000		
BH (60°-80°)	2641.1	5.0	B4/5000		G4/5000
BVH (80°-90°)	258.9	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: P951705
 CATALOG NUMBER: GALN-SB5D-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7
2.5°	9838.7	9804.4	9838.7	9824.4	9818.7	9807.2	9810.1	9830.1	9818.7	9832.9
5°	9772.9	9752.9	9787.2	9778.6	9815.8	9821.5	9858.7	9881.6	9895.9	9898.7
7.5°	9664.3	9644.2	9692.8	9732.9	9812.9	9835.8	9913.0	9950.2	9970.2	10004.5
10°	9266.8	9258.2	9378.3	9529.9	9718.6	9835.8	9953.0	10015.9	10047.4	10138.9
12.5°	8563.4	8574.9	8732.1	9023.8	9401.2	9778.6	9998.8	10090.3	10138.9	10253.3
15°	7891.5	7888.7	8060.2	8371.9	8900.8	9527.0	10021.7	10178.9	10261.8	10430.5
17.5°	7502.7	7491.2	7611.3	7848.6	8340.4	9141.0	9964.5	10227.5	10404.8	10616.4
20°	7431.2	7408.3	7471.2	7588.4	7937.3	8717.8	9815.8	10227.5	10519.2	10793.7
22.5°	7691.4	7654.2	7628.5	7614.2	7768.6	8369.0	9647.1	10193.2	10687.9	11048.1
25°	8214.6	8157.4	8025.9	7897.2	7851.5	8211.8	9498.4	10184.6	10939.5	11391.2
27.5°	9061.0	8989.5	8723.6	8414.8	8137.4	8291.8	9432.7	10236.1	11216.8	11754.4
30°	10110.3	10033.1	9698.6	9223.9	8726.4	8589.2	9515.6	10387.6	11571.4	12237.6
32.5°	11051.0	10965.2	10679.3	10196.1	9524.1	9103.8	9778.6	10676.4	12128.9	12909.5
35°	11885.9	11785.8	11528.5	11082.4	10502.0	9827.2	10253.3	11188.2	12920.9	14001.7
37.5°	12703.6	12586.4	12306.2	11834.4	11428.4	10790.8	10908.0	11845.9	13973.1	15328.4
40°	13618.6	13449.9	13109.6	12643.6	12249.0	11920.2	11768.7	12652.2	15042.5	16809.5
42.5°	14505.0	14344.8	13938.8	13541.4	13046.7	12952.4	12766.5	13595.7	16211.9	18436.4
45°	15459.9	15268.4	14776.6	14273.4	13961.7	13638.6	13733.0	14539.3	17358.5	20094.8
47.5°	16354.9	16140.4	15560.0	14999.6	14828.1	14216.2	14619.3	15577.2	18550.8	21776.0
50°	16838.1	16626.5	16143.3	15637.2	15502.8	14928.1	15580.0	16718.0	19800.3	23451.5
52.5°	17241.3	17012.5	16380.6	16100.4	16060.4	15703.0	16763.8	18021.8	21049.8	24932.6
55°	17670.1	17415.7	16609.4	16357.7	16540.7	16572.2	18167.6	19500.1	22370.7	26376.5
57.5°	18164.8	17841.7	16829.5	16575.0	17009.7	17590.1	19780.3	21032.6	23668.8	27714.7
60°	18630.8	18304.9	17252.7	16921.0	17515.7	18771.0	21630.2	22888.3	25138.5	28907.0
62.5°	18722.3	18453.6	17590.1	17587.2	18202.0	20149.1	23820.4	24761.1	26422.3	30085.0
65°	17138.3	16969.6	16457.8	17561.5	19185.5	22133.4	26259.3	27157.1	28054.9	31114.3
67.5°	13043.9	13066.8	13029.6	15159.7	18390.7	24984.1	29790.5	29721.9	30070.7	32269.5
70°	5964.4	6098.8	6973.7	10464.8	14733.7	25312.9	35629.1	34739.8	32601.1	33764.8
72.5°	3222.4	3325.3	3682.7	5069.4	8857.9	22505.1	39992.3	40624.2	35966.5	34771.3
75°	2364.6	2421.8	2670.5	3222.4	3719.9	16726.6	38428.3	41670.7	36386.8	32423.9
77.5°	1769.9	1795.6	1998.6	2553.3	1904.3	8817.9	30705.4	34511.1	31148.6	26639.6
80°	1283.8	1312.4	1463.9	1915.7	1335.3	3225.2	21084.1	24223.5	21332.8	16981.1
82.5°	886.4	897.8	963.6	1303.8	932.1	1252.3	11963.1	14204.7	11908.8	5958.7
85°	534.7	549.0	577.6	760.6	529.0	594.7	5163.8	5341.1	3559.8	1423.9
87.5°	220.2	234.5	257.3	320.2	208.7	165.8	852.1	1069.4	666.2	417.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951705
 CATALOG NUMBER: GALN-SB5D-740-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9755.7	0°	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7	9755.7
9784.3	2.5°	9770.0	9750.0	9695.7	9621.4	9552.7	9467.0	9429.8	9398.3	9369.7	9315.4
9861.5	5°	9830.1	9775.8	9629.9	9441.2	9226.8	8992.3	8763.6	8606.3	8471.9	8371.9
9950.2	7.5°	9921.6	9818.7	9552.7	9166.7	8675.0	8171.7	7717.1	7394.0	7151.0	7062.3
10076.0	10°	10015.9	9893.0	9429.8	8749.3	7900.1	7125.2	6521.9	6190.3	5995.8	5932.9
10224.7	12.5°	10127.4	9947.3	9238.2	8168.9	7033.7	6184.5	5658.4	5464.0	5363.9	5329.6
10407.7	15°	10290.4	9993.1	8949.4	7442.6	6207.4	5498.3	5158.1	5023.7	4972.2	4969.4
10596.4	17.5°	10413.4	10001.6	8500.5	6664.9	5572.7	5083.7	4803.5	4752.1	4786.4	4837.8
10782.2	20°	10550.6	9924.4	7911.5	5955.8	5126.6	4720.6	4603.4	4637.7	4720.6	4795.0
11028.1	22.5°	10647.8	9784.3	7199.6	5404.0	4740.6	4511.9	4506.2	4577.7	4623.4	4660.6
11316.9	25°	10733.6	9547.0	6444.7	4940.8	4423.3	4386.1	4449.0	4426.1	4394.7	4426.1
11605.7	27.5°	10796.5	9172.5	5770.0	4534.8	4200.2	4300.3	4263.1	4211.7	4208.8	4226.0
11945.9	30°	10776.5	8672.1	5215.3	4148.8	4043.0	4140.2	4051.6	4043.0	4034.4	4043.0
12457.7	32.5°	10776.5	8103.1	4789.2	3882.9	3942.9	3905.7	3897.2	3877.1	3842.8	3840.0
13152.5	35°	10836.5	7534.1	4423.3	3739.9	3860.0	3771.3	3777.1	3728.5	3657.0	3622.7
14073.2	37.5°	10959.5	7076.6	4060.1	3671.3	3714.2	3711.3	3688.4	3605.5	3479.7	3371.1
15222.6	40°	11256.9	6942.2	3811.4	3639.8	3645.5	3679.8	3619.8	3459.7	3173.8	2996.5
16389.2	42.5°	11722.9	7168.1	3757.0	3562.6	3599.8	3634.1	3516.9	3145.2	2942.2	2836.4
17613.0	45°	12314.8	7562.7	3874.3	3451.1	3491.1	3551.2	3202.4	3025.1	2933.6	2936.4
18825.3	47.5°	13063.9	7977.3	4091.6	3353.9	3333.9	3368.2	2993.6	2885.0	2759.2	2790.6
19989.0	50°	13930.2	8397.6	4297.4	3222.4	3159.5	3048.0	2859.2	2756.3	2596.2	2521.9
21112.7	52.5°	14868.1	8803.6	4380.4	3062.3	2970.8	2842.1	2767.8	2641.9	2447.5	2324.6
22173.5	55°	15757.3	9172.5	4288.9	2870.7	2782.0	2682.0	2670.5	2593.3	2384.6	2213.1
23117.0	57.5°	16597.9	9481.3	4060.1	2676.3	2590.5	2530.4	2607.6	2570.5	2307.4	2087.2
24009.1	60°	17309.9	9692.8	3728.5	2479.0	2418.9	2387.5	2504.7	2493.3	2198.8	1952.9
24809.7	62.5°	17876.0	9775.8	3362.5	2290.3	2276.0	2218.8	2361.7	2361.7	2061.5	1821.3
25513.1	65°	18319.2	9695.7	2990.8	2104.4	2133.0	2047.2	2187.3	2170.2	1915.7	1704.1
26322.2	67.5°	18710.9	9432.7	2579.0	1921.4	1987.2	1878.5	2004.3	1964.3	1755.6	1586.9
27022.7	70°	18885.3	8820.8	2110.1	1738.4	1818.5	1712.7	1821.3	1747.0	1575.4	1461.1
26253.6	72.5°	17484.3	7331.1	1661.2	1546.9	1615.5	1529.7	1624.1	1538.3	1381.0	1329.5
22671.0	75°	14464.9	5501.2	1278.1	1338.1	1389.6	1323.8	1386.7	1323.8	1180.9	1218.0
16746.6	77.5°	10504.9	3714.2	977.9	1118.0	1140.8	1106.5	1160.9	1089.4	960.7	952.1
8346.1	80°	5223.8	2175.9	766.3	883.5	874.9	852.1	915.0	880.6	772.0	817.7
2253.1	82.5°	1512.5	932.1	557.6	620.5	603.3	609.0	654.8	671.9	1006.5	997.9
700.5	85°	474.6	366.0	334.5	346.0	328.8	337.4	386.0	766.3	709.1	414.6
217.3	87.5°	122.9	125.8	82.9	88.6	91.5	108.7	122.9	466.1	223.0	145.8
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>
9755.7
9289.7
8289.0
6907.9
5835.7
5338.2
4980.8
4857.9
4820.7
4680.6
4446.1
4254.6
4074.4
3877.1
3657.0
3408.2
3019.4
2836.4
2950.7
2870.7
2541.9
2321.7
2213.1
2075.8
1944.3
1812.8
1692.7
1575.4
1438.2
1286.7
<i>1112.2</i>
909.2
809.2
1020.8
448.9
154.4
0.0

F REPORT)