

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: P941635

Luminaire Tested: **GALN-SB5B-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28184 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

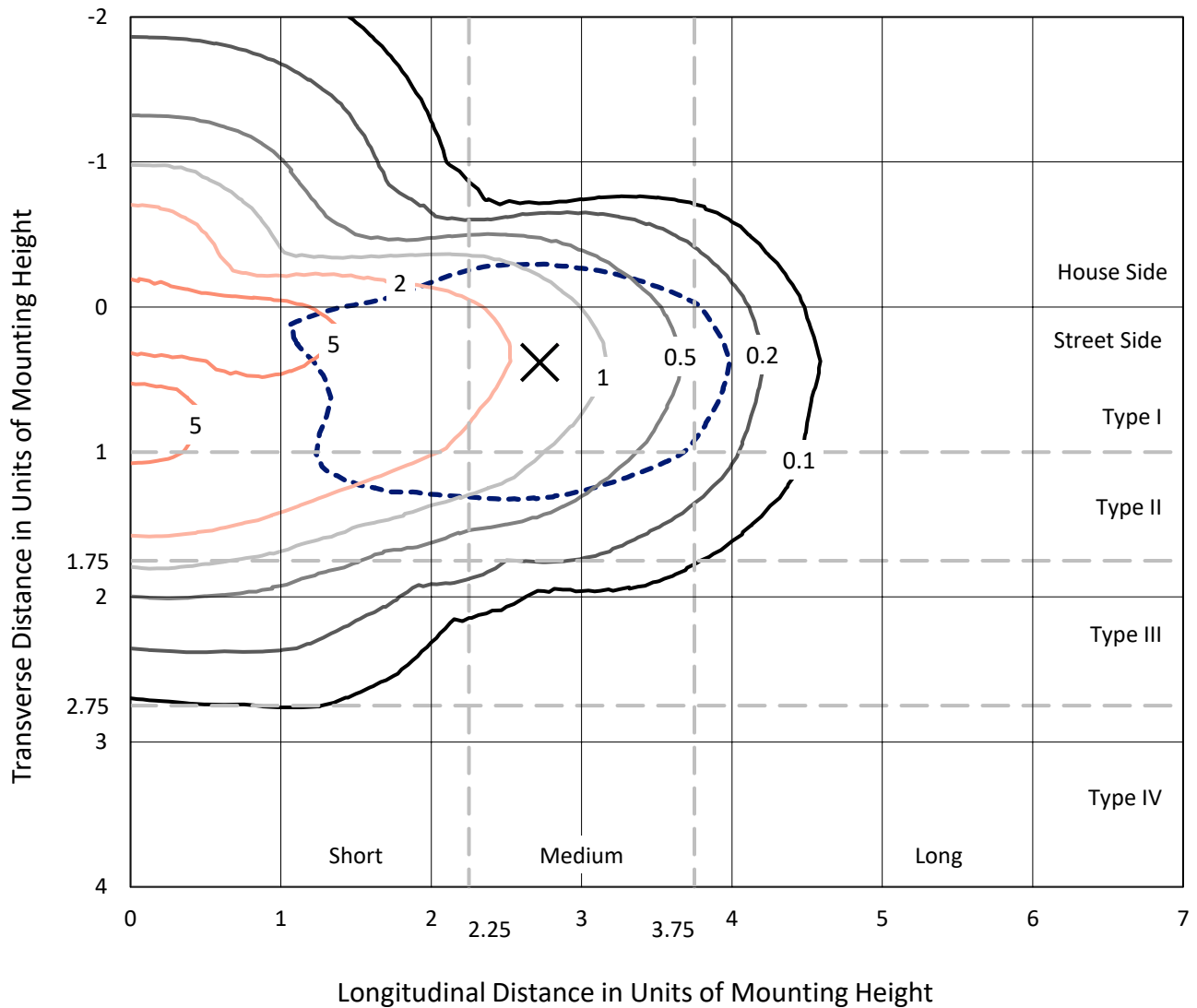
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941635
 CATALOG NUMBER: GALN-SB5B-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

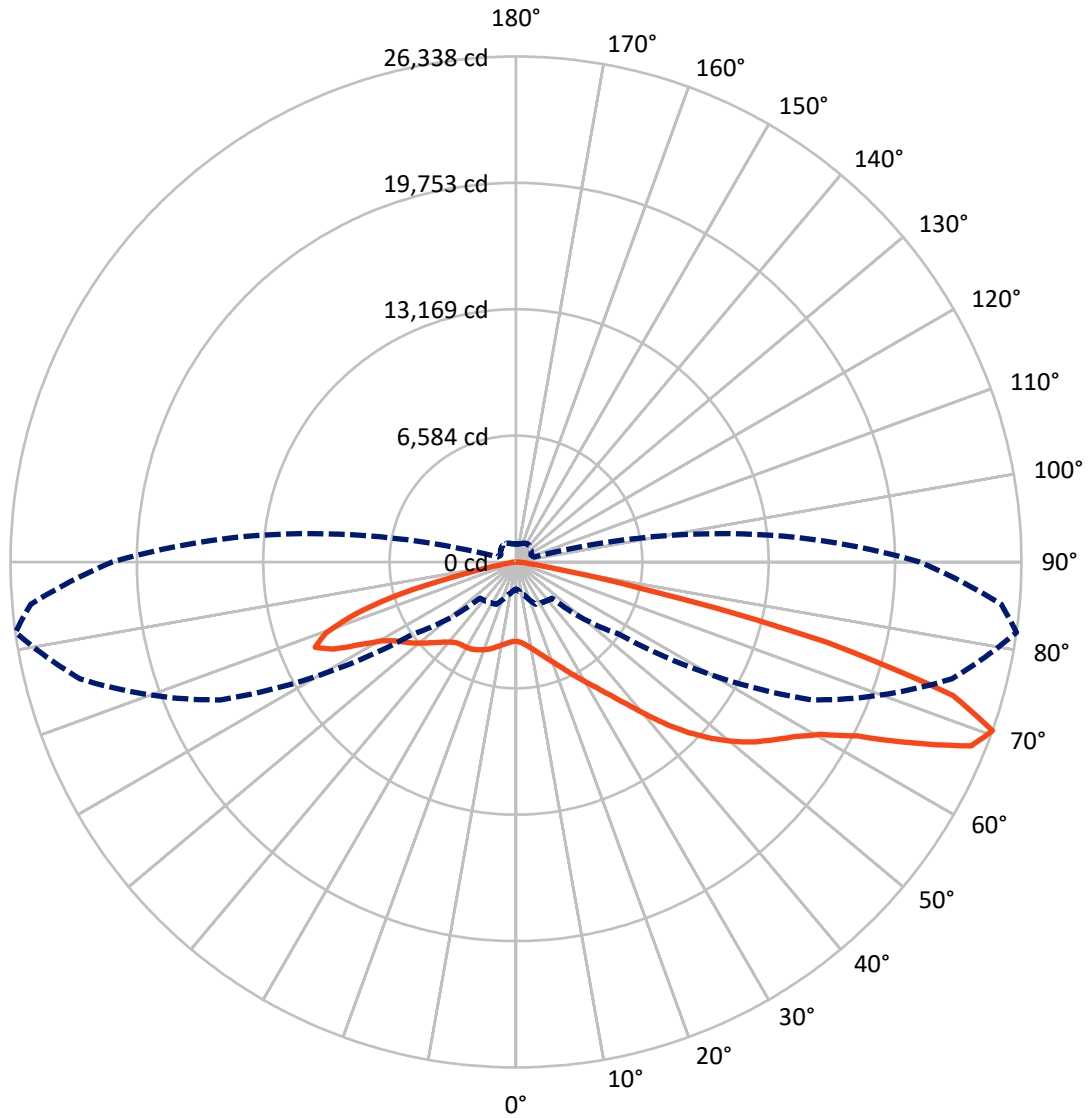
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P941635
CATALOG NUMBER: GALN-SB5B-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P941635
 CATALOG NUMBER: GALN-SB5B-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6948.0	0.0	6948.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21235.9	0.0	21235.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	28184.0	0.0	28184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.1	1.4
10°-20°	1120.9	4.0
20°-30°	1875.2	6.7
30°-40°	2929.5	10.4
40°-50°	4665.6	16.6
50°-60°	6492.7	23.0
60°-70°	6791.7	24.1
70°-80°	3549.7	12.6
80°-90°	368.6	1.3
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°	28184.0	100.0
0°-180°	28184.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941635

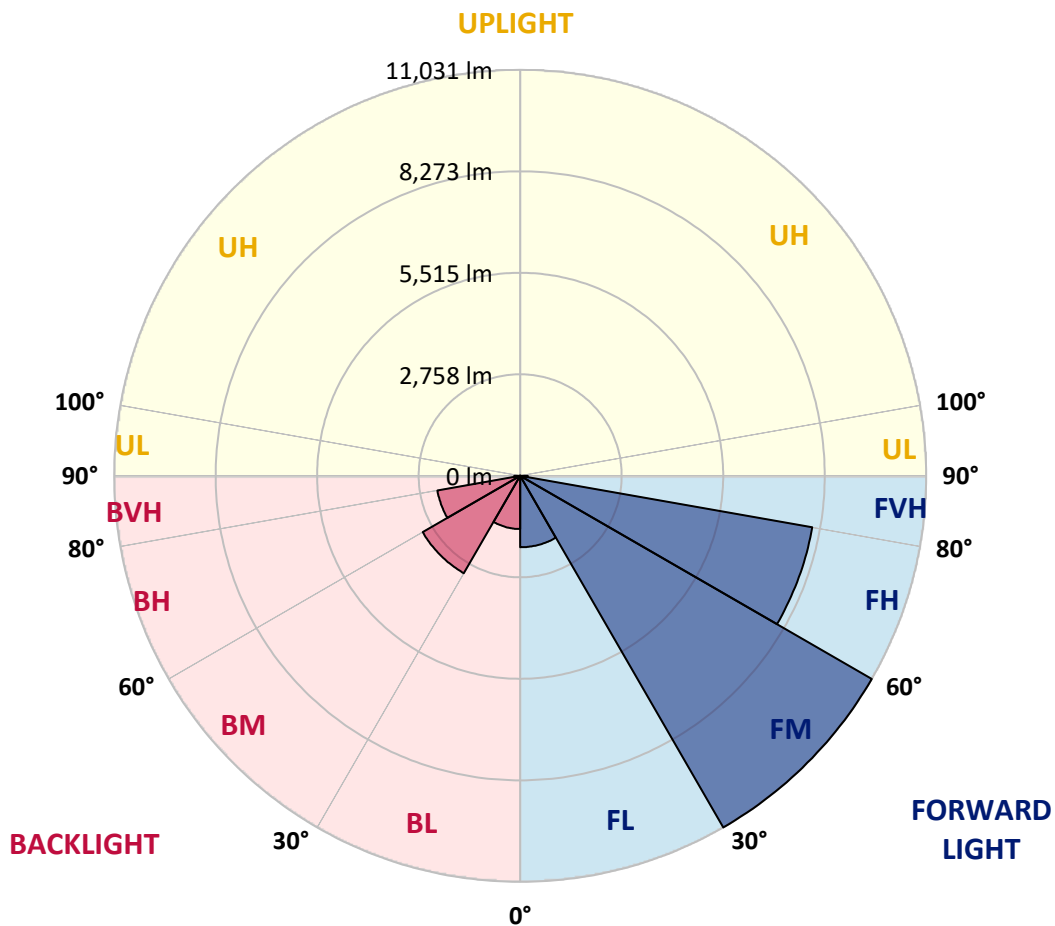
CATALOG NUMBER: GALN-SB5B-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.8	6.9			
FM (30°-60°)	11030.9	39.1			
FH (60°-80°)	8057.9	28.6			G4/12000
FVH (80°-90°)	206.3	0.7			G2/225
BL (0°-30°)	1445.4	5.1	B3/2500		
BM (30°-60°)	3056.9	10.8	B3/5000		
BH (60°-80°)	2283.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	162.3	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 II Medium



REPORT NUMBER: P941635

CATALOG NUMBER: GALN-SB5B-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1
2.5°	4230.8	4254.8	4247.3	4239.8	4239.8	4229.3	4227.8	4212.9	4200.9	4181.5
5°	4284.7	4310.1	4307.1	4313.1	4332.5	4337.0	4341.5	4332.5	4308.6	4284.7
7.5°	4236.8	4265.2	4274.2	4310.1	4369.9	4423.8	4464.1	4480.6	4458.2	4423.8
10°	4075.3	4106.7	4138.1	4223.4	4329.5	4456.7	4564.3	4628.6	4624.2	4591.3
12.5°	3747.8	3780.7	3848.0	4014.0	4208.4	4432.7	4633.1	4767.7	4814.1	4790.2
15°	3486.1	3514.5	3565.3	3735.8	3988.6	4329.5	4658.6	4920.3	5038.4	5025.0
17.5°	3478.6	3490.5	3522.0	3602.7	3797.1	4168.0	4631.6	5069.8	5295.6	5294.1
20°	3610.2	3614.7	3632.6	3649.1	3759.7	4045.4	4562.8	5193.9	5584.3	5584.3
22.5°	3792.6	3789.7	3807.6	3792.6	3846.5	4034.9	4519.5	5303.1	5905.8	5929.7
25°	4066.3	4051.4	4046.9	4012.5	4023.0	4132.1	4567.3	5427.2	6287.2	6336.5
27.5°	4431.2	4407.3	4390.9	4311.6	4284.7	4332.5	4713.9	5576.8	6711.9	6797.1
30°	4906.8	4863.4	4839.5	4701.9	4604.7	4612.2	4935.2	5775.7	7156.1	7293.7
32.5°	5555.9	5488.6	5424.3	5198.4	5020.5	4962.1	5220.9	6050.9	7637.6	7857.5
35°	6282.7	6228.8	6160.1	5811.6	5537.9	5403.3	5606.7	6435.2	8201.4	8549.9
37.5°	6982.6	6936.2	6969.1	6499.5	6146.6	5950.7	6112.2	6951.2	8896.9	9411.3
40°	7706.4	7670.5	7675.0	7226.4	6815.1	6595.3	6725.4	7598.7	9694.0	10435.8
42.5°	8493.1	8466.1	8376.4	7978.6	7516.5	7311.6	7431.2	8346.5	10549.4	11602.3
45°	9373.9	9357.5	9273.7	8817.6	8288.2	8057.9	8219.4	9172.0	11409.3	12700.0
47.5°	10135.2	10148.6	10138.1	9753.8	9204.9	8866.9	9059.9	10033.5	12209.4	13731.9
50°	10501.6	10571.8	10675.0	10555.4	10214.4	9870.4	9907.8	10865.0	12972.2	14699.5
52.5°	10310.1	10443.2	10724.4	10915.8	11047.4	10975.6	10875.4	11690.5	13690.0	15572.9
55°	9596.8	9783.7	10250.3	10712.4	11383.9	11905.8	12037.5	12605.8	14389.9	16341.6
57.5°	8297.2	8600.7	9019.5	9954.2	11084.8	12356.0	13392.4	13875.5	15131.7	17162.6
60°	6068.8	6475.6	6996.1	8386.9	10037.9	12115.2	14545.4	15825.6	16186.0	18225.9
62.5°	3883.9	4135.1	4613.7	5923.8	7821.6	10881.4	14898.4	18263.3	17973.2	19969.7
65°	2659.0	2820.6	3258.7	3994.5	5056.4	8099.7	13953.2	20090.8	20811.7	22733.4
67.5°	1932.2	2054.8	2428.7	3073.3	3294.6	4793.1	10827.6	20007.1	23570.9	25580.9
70°	1408.8	1495.5	1809.6	2428.7	2534.9	2666.5	6559.4	17007.1	23511.1	26337.6
72.5°	1043.9	1103.7	1314.6	1884.4	2051.9	1800.6	3246.8	12360.5	20203.0	23822.2
75°	755.2	800.1	955.6	1441.7	1642.1	1371.4	1619.7	7223.4	14092.3	16757.3
77.5°	577.3	611.7	713.4	1055.8	1314.6	1028.9	1005.0	3323.0	6682.0	6714.9
80°	463.6	486.0	541.4	743.3	1008.0	770.2	655.0	1341.5	2111.7	1787.1
82.5°	341.0	378.4	457.6	521.9	720.8	530.9	399.3	677.5	803.1	690.9
85°	194.4	219.8	276.7	373.9	460.6	324.5	228.8	300.6	373.9	306.6
87.5°	68.8	89.7	97.2	146.6	200.4	134.6	88.2	86.7	122.6	91.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941635
 CATALOG NUMBER: GALN-SB5B-735-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4132.1	0°	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1	4132.1
4177.0	2.5°	4162.0	4154.6	4124.6	4084.3	4042.4	4002.0	3988.6	3960.1	3940.7	3930.2
4274.2	5°	4245.8	4221.9	4151.6	4061.8	3967.6	3865.9	3794.1	3728.3	3680.5	3635.6
4407.3	7.5°	4365.4	4323.6	4202.4	4045.4	3877.9	3708.9	3583.3	3487.6	3423.2	3381.4
4562.8	10°	4504.5	4440.2	4254.8	4020.0	3761.2	3519.0	3370.9	3288.7	3248.3	3225.8
4740.8	12.5°	4664.5	4573.3	4308.6	3961.6	3583.3	3306.6	3204.9	3181.0	3182.5	3184.0
4965.1	15°	4861.9	4734.8	4352.0	3834.5	3351.5	3143.6	3125.6	3164.5	3204.9	3224.3
5219.4	17.5°	5084.8	4905.3	4359.4	3625.1	3124.1	3038.9	3095.7	3179.5	3240.8	3267.7
5503.5	20°	5324.1	5078.8	4305.6	3329.0	2937.2	2953.7	3055.4	3163.0	3230.3	3264.7
5828.0	22.5°	5597.7	5264.2	4177.0	3018.0	2784.7	2860.9	2980.6	3085.3	3155.6	3189.9
6209.4	25°	5910.3	5472.1	3975.1	2756.2	2653.1	2756.2	2875.9	2962.6	3019.5	3050.9
6635.6	27.5°	6257.3	5689.0	3705.9	2548.4	2537.9	2648.6	2747.3	2814.6	2844.5	2868.4
7088.8	30°	6605.7	5886.4	3379.9	2391.3	2437.7	2542.4	2612.7	2642.6	2651.6	2656.0
7594.3	32.5°	6982.6	6056.9	3037.4	2261.2	2342.0	2439.2	2481.1	2494.5	2452.7	2424.2
8207.4	35°	7438.7	6239.3	2702.4	2158.0	2247.8	2331.5	2345.0	2333.0	2283.7	2225.3
8976.1	37.5°	8002.5	6466.6	2434.7	2084.8	2159.5	2214.9	2198.4	2195.4	2199.9	2131.1
9900.4	40°	8693.5	6762.7	2238.8	2027.9	2087.7	2099.7	2053.4	2078.8	2101.2	1996.5
10914.3	42.5°	9460.7	7120.2	2114.7	1989.0	2027.9	1999.5	1927.7	1956.1	1953.2	1815.6
11932.8	45°	10242.8	7509.0	2071.3	1960.6	1972.6	1915.8	1836.5	1844.0	1781.2	1657.0
12909.3	47.5°	11020.5	7926.3	2098.2	1936.7	1903.8	1839.5	1778.2	1745.3	1652.6	1559.8
13845.5	50°	11783.2	8364.5	2196.9	1888.8	1809.6	1772.2	1727.3	1669.0	1570.3	1491.0
14730.9	52.5°	12490.6	8805.6	2307.6	1809.6	1691.4	1713.9	1685.5	1618.2	1520.9	1440.2
15568.4	55°	13160.6	9246.8	2351.0	1700.4	1580.8	1663.0	1646.6	1522.4	1405.8	1340.0
16444.8	57.5°	13890.4	9777.7	2303.1	1561.3	1491.0	1604.7	1541.9	1404.3	1337.0	1287.6
17585.8	60°	14901.4	10610.7	2199.9	1389.3	1405.8	1518.0	1410.3	1353.4	1280.2	1224.8
19296.7	62.5°	16580.9	12164.6	2033.9	1218.9	1305.6	1389.3	1347.5	1290.6	1215.9	1162.0
22222.0	65°	19063.4	14324.1	1721.3	1085.7	1193.4	1263.7	1280.2	1223.3	1145.6	1088.7
24785.3	67.5°	21157.1	15679.1	1302.6	975.1	1078.3	1162.0	1208.4	1153.0	1070.8	1015.5
25385.0	70°	21042.0	14695.0	994.5	865.9	976.6	1061.8	1121.6	1078.3	990.0	937.7
23058.0	72.5°	18689.5	12293.2	804.6	755.2	873.4	957.1	1028.9	996.0	906.3	855.4
16891.9	75°	13730.4	8726.4	643.1	643.1	744.8	848.0	927.2	906.3	824.0	788.1
7091.8	77.5°	5787.7	3661.0	504.0	533.9	619.1	728.3	827.0	834.5	762.7	807.6
1875.4	80°	1538.9	1009.5	384.3	420.2	486.0	601.2	719.3	716.4	638.6	596.7
696.9	82.5°	586.2	397.8	273.7	296.1	351.4	460.6	569.8	587.7	510.0	441.2
273.7	85°	225.8	170.5	169.0	178.0	204.9	305.1	430.7	445.7	384.3	326.0
76.3	87.5°	58.3	50.8	62.8	59.8	94.2	163.0	246.8	255.7	234.8	136.1
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>
4132.1
3942.2
3653.6
3390.3
3231.8
3187.0
3222.8
3273.7
3273.7
3198.9
3059.8
2877.4
2666.5
2433.2
2228.3
2135.6
1999.5
1814.1
1661.5
1559.8
1485.1
1441.7
1334.0
1283.2
1221.8
1162.0
1091.7
1017.0
942.2
855.4
777.7
732.8
554.8
441.2
336.5
194.4
0.0

F REPORT)