

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: P955735

Luminaire Tested: **GALN-SB8C-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-835-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55830 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

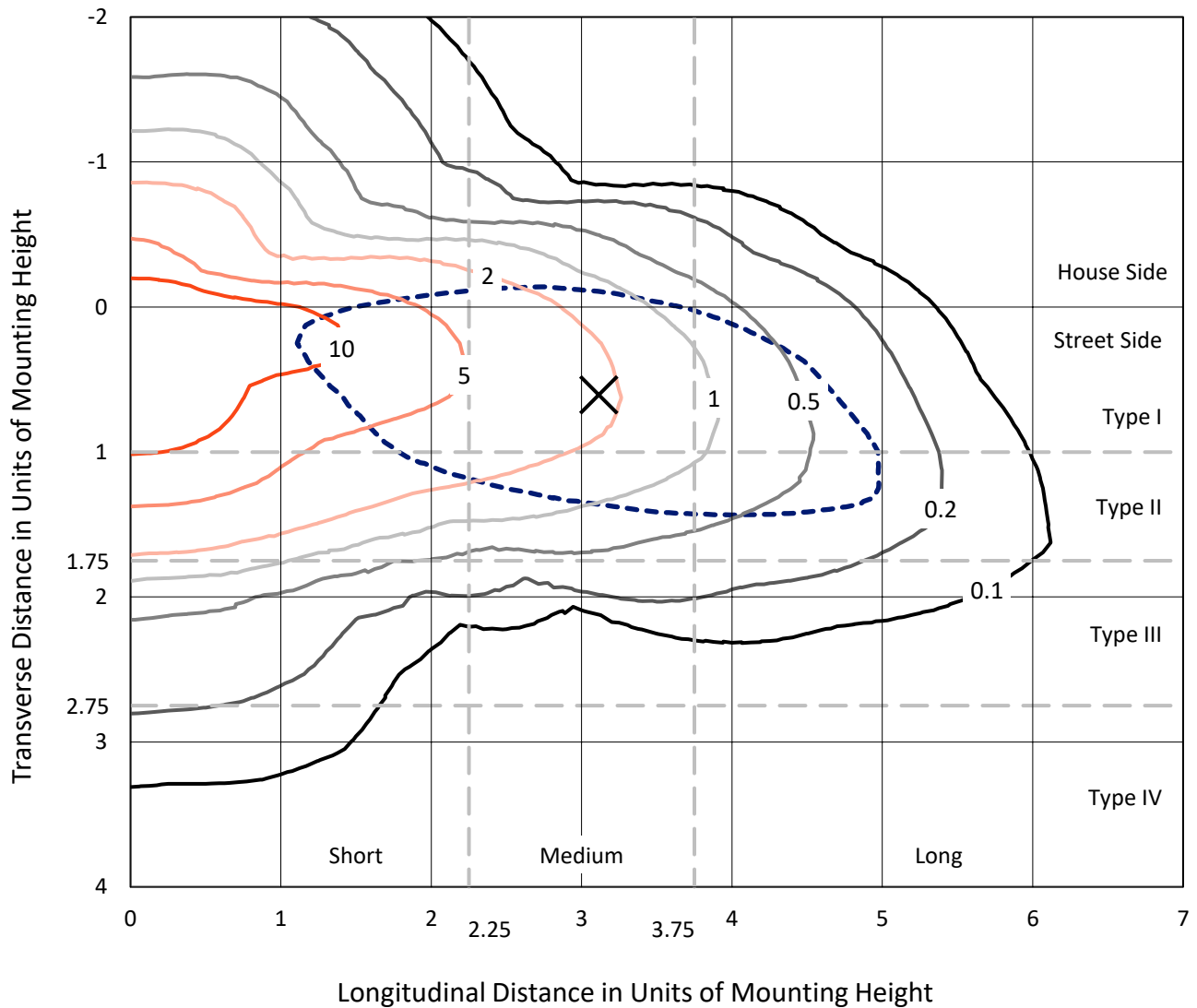
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955735
 CATALOG NUMBER: GALN-SB8C-835-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

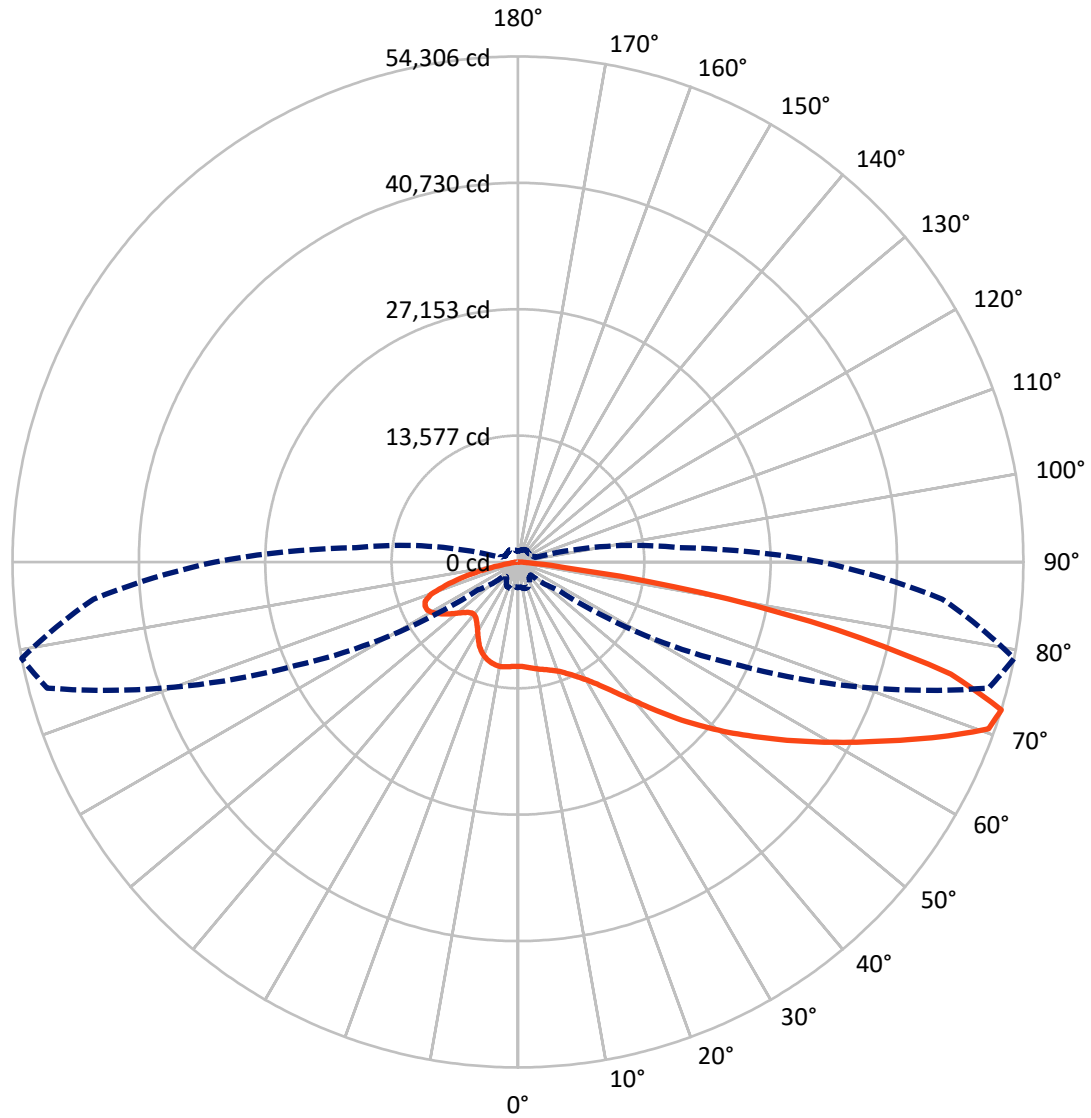
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type II - Medium - N/A

REPORT NUMBER: P955735
CATALOG NUMBER: GALN-SB8C-835-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P955735
 CATALOG NUMBER: GALN-SB8C-835-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12285.7	0.0	12285.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	43544.3	0.0	43544.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	55830.0	0.0	55830.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.3	1.8
10°-20°	2659.7	4.8
20°-30°	4291.7	7.7
30°-40°	6441.3	11.5
40°-50°	9137.3	16.4
50°-60°	11539.2	20.7
60°-70°	11719.6	21.0
70°-80°	7987.5	14.3
80°-90°	1036.3	1.9
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°	55830.0	100.0
0°-180°	55830.0	100.0

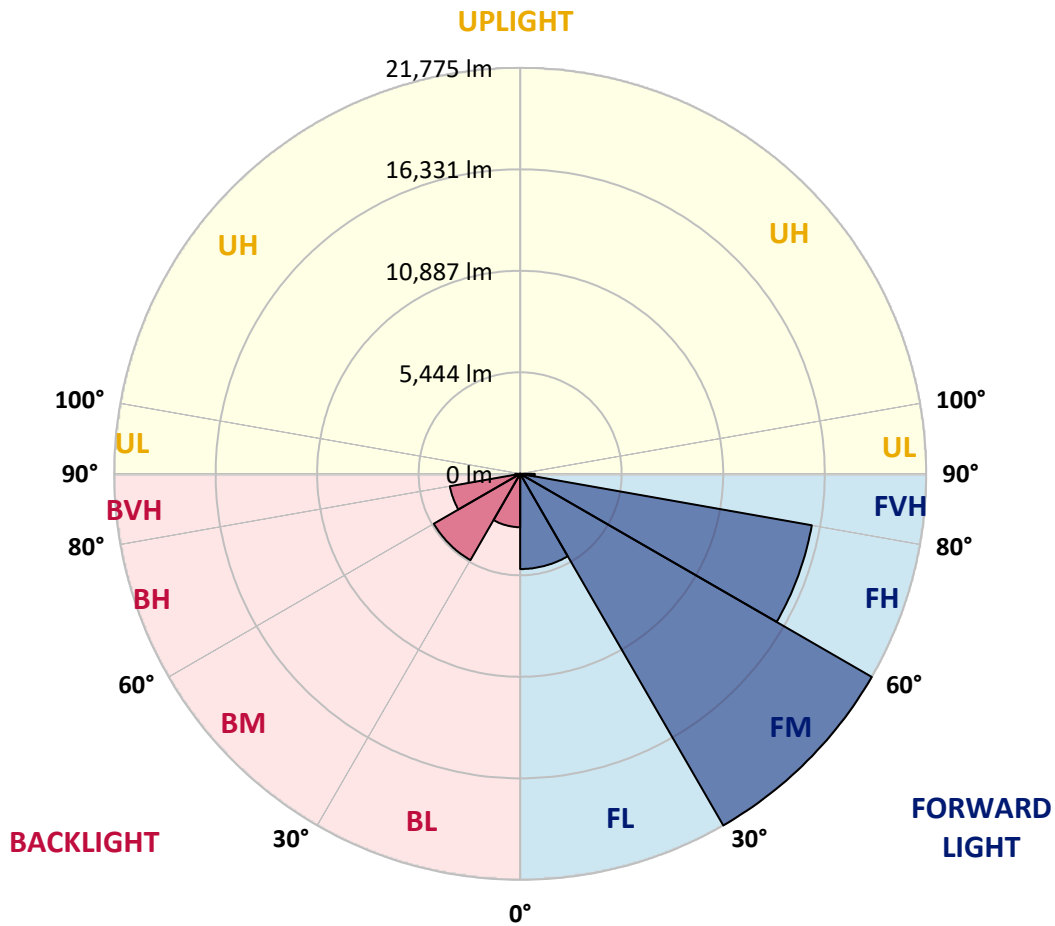


REPORT NUMBER: P955735
 CATALOG NUMBER: GALN-SB8C-835-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5107.1	9.1			
FM (30°-60°)	21774.8	39.0			
FH (60°-80°)	15881.7	28.4			G5
FVH (80°-90°)	780.7	1.4			G5
BL (0°-30°)	2861.7	5.1	B4/5000		
BM (30°-60°)	5343.0	9.6	B4/8500		
BH (60°-80°)	3825.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	255.6	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 II Medium



REPORT NUMBER: P955735
 CATALOG NUMBER: GALN-SB8C-835-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3
2.5°	11213.2	11160.1	11192.6	11180.8	11195.5	11213.2	11219.2	11228.0	11257.5	11254.6
5°	11189.6	11136.5	11180.8	11166.0	11204.4	11245.7	11281.2	11313.7	11360.9	11381.6
7.5°	11139.4	11104.0	11148.3	11192.6	11263.5	11325.5	11375.7	11449.5	11517.4	11529.2
10°	10847.1	10820.5	10923.8	11039.0	11233.9	11402.3	11511.5	11597.2	11671.0	11682.8
12.5°	10542.9	10510.4	10625.6	10782.1	11098.1	11402.3	11632.6	11744.8	11809.8	11848.2
15°	10492.7	10466.1	10531.1	10666.9	10929.7	11322.5	11715.3	11922.0	11978.1	12022.4
17.5°	10734.8	10684.6	10711.2	10758.5	10912.0	11248.7	11780.3	12122.8	12208.5	12255.7
20°	11295.9	11225.1	11183.7	11089.2	11062.6	11260.5	11774.4	12365.0	12477.2	12536.3
22.5°	12043.1	11995.8	11907.2	11668.0	11408.2	11405.2	11886.6	12675.1	12884.8	12940.9
25°	12946.8	12875.9	12763.7	12438.8	11939.7	11691.7	12075.6	13070.8	13422.2	13437.0
27.5°	13986.3	13880.0	13726.4	13298.2	12624.9	12140.5	12365.0	13525.6	14039.4	14033.5
30°	15081.9	14975.6	14813.2	14293.4	13445.9	12746.0	12766.6	14015.8	14771.8	14739.4
32.5°	15882.2	15802.5	15770.0	15368.4	14390.9	13460.6	13227.3	14559.2	15675.5	15646.0
35°	16496.5	16393.1	16431.5	16227.8	15421.5	14260.9	13791.4	15206.0	16774.1	16771.1
37.5°	17104.9	17013.3	17045.8	16909.9	16375.4	15276.8	14479.5	15997.4	18135.5	18200.5
40°	17660.1	17562.6	17692.5	17565.6	17116.7	16357.7	15262.1	16892.2	19712.5	19836.6
42.5°	17993.8	17917.0	18132.6	18135.5	17760.5	17270.2	16121.4	17878.6	21537.6	21815.2
45°	18108.9	18082.4	18407.2	18475.1	18330.4	17798.9	16895.2	18953.5	23504.4	24000.5
47.5°	17984.9	17934.7	18383.6	18634.6	18749.8	18046.9	17536.0	20117.1	25512.6	26239.1
50°	17358.8	17261.4	17928.8	18457.4	18867.9	18209.3	18182.8	21460.8	27795.4	28589.8
52.5°	16233.7	16159.8	16918.8	17837.2	18608.0	18289.1	18909.3	22928.5	29963.0	30990.7
55°	14795.5	14698.0	15533.8	16732.8	17961.3	18262.5	19635.7	24570.5	32520.5	33563.0
57.5°	12515.6	12320.7	13377.9	14795.5	16907.0	18230.0	20391.8	26203.6	35119.3	36368.5
60°	9190.3	8900.9	10197.4	11877.7	14845.7	17914.0	21327.9	28034.6	38237.9	39363.0
62.5°	5351.2	5182.8	6030.4	7598.5	11189.6	16053.5	21853.6	30163.8	41303.3	42484.5
65°	4155.1	4107.9	4181.7	4302.8	6228.3	12019.5	20232.3	32239.9	45201.5	46028.4
67.5°	3800.8	3765.3	3797.8	3570.4	3159.9	6694.9	16006.3	32765.6	49377.3	49879.3
70°	3378.4	3337.1	3443.4	3248.5	2486.6	3044.7	10342.1	30857.8	52699.6	53641.7
72.5°	2752.4	2705.1	2953.2	2864.6	2093.8	1955.0	5194.7	26324.7	52351.1	54306.1
75°	2114.5	2087.9	2383.2	2457.1	1706.9	1538.6	2492.5	19567.8	46069.7	48039.5
77.5°	1642.0	1621.3	1771.9	2040.7	1376.2	1193.1	1532.7	12412.2	34717.7	35063.2
80°	1231.5	1172.4	1311.2	1580.0	1072.0	871.2	1039.5	7238.3	21945.1	19892.7
82.5°	770.8	741.2	856.4	1054.3	756.0	599.5	676.3	3998.6	8794.6	5179.9
85°	440.0	428.2	466.6	602.4	410.5	345.5	386.9	1766.0	1606.5	1104.5
87.5°	177.2	171.3	212.6	268.7	150.6	127.0	135.8	425.3	354.4	327.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955735
 CATALOG NUMBER: GALN-SB8C-835-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11207.3	0°	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3	11207.3
11251.6	2.5°	11239.8	11239.8	11198.5	11133.5	11059.7	11012.4	10935.6	10915.0	10835.2	10811.6
11352.0	5°	11375.7	11352.0	11225.1	11042.0	10790.9	10560.6	10306.6	10147.1	9922.7	9843.0
11549.9	7.5°	11547.0	11482.0	11263.5	10861.8	10336.2	9819.3	9281.9	8874.3	8484.5	8345.7
11712.3	10°	11703.5	11611.9	11239.8	10537.0	9627.4	8732.6	7876.1	7276.7	6821.9	6635.8
11892.5	12.5°	11860.0	11691.7	11083.3	9996.5	8620.4	7406.6	6494.1	6027.5	5746.9	5522.5
12040.1	15°	12007.7	11771.4	10841.1	9273.0	7515.9	6284.4	5611.1	5239.0	5014.5	4866.9
12255.7	17.5°	12178.9	11839.3	10477.9	8354.6	6464.5	5507.7	4958.4	4734.0	4689.7	4671.9
12551.0	20°	12418.1	11901.3	9999.5	7326.9	5690.8	4887.5	4604.0	4583.3	4580.4	4571.5
12905.4	22.5°	12675.1	11975.2	9367.5	6393.6	5032.2	4500.7	4450.5	4409.1	4382.5	4379.6
13333.6	25°	12979.3	11998.8	8576.1	5628.8	4471.1	4317.6	4258.5	4196.5	4178.8	4178.8
13820.9	27.5°	13274.6	11919.1	7654.7	4964.3	4155.1	4149.2	4072.4	4051.8	4048.8	4057.7
14376.1	30°	13569.9	11768.4	6739.2	4350.0	3972.0	3972.0	3945.5	3960.2	3972.0	4001.6
15138.0	32.5°	13968.6	11609.0	5974.3	3895.3	3812.6	3783.0	3809.6	3839.1	3851.0	3889.3
16139.2	35°	14553.3	11496.8	5365.9	3647.2	3647.2	3608.8	3623.6	3617.7	3591.1	3573.4
17350.0	37.5°	15327.0	11490.8	4863.9	3532.0	3508.4	3502.5	3505.4	3467.0	3363.7	3239.6
18814.7	40°	16257.3	11650.3	4477.0	3452.3	3434.6	3470.0	3452.3	3348.9	3065.4	2849.8
20616.2	42.5°	17506.5	12105.1	4229.0	3354.8	3408.0	3452.3	3381.4	3024.1	2832.1	2687.4
22668.7	45°	18977.2	12843.4	4102.0	3251.5	3357.8	3410.9	3068.4	2911.8	2758.3	2584.0
24907.2	47.5°	20642.8	13773.7	4072.4	3154.0	3245.6	3278.0	2935.5	2864.6	2690.4	2501.3
27157.5	50°	22456.0	14875.2	4152.2	3038.8	3083.1	2970.9	2891.2	2826.2	2646.1	2460.0
29463.9	52.5°	24331.3	16089.0	4311.7	2882.3	2920.7	2796.7	2873.5	2817.3	2619.5	2368.5
31847.2	55°	26174.1	17311.6	4465.2	2699.2	2755.3	2640.1	2823.2	2781.9	2498.4	2214.9
34389.9	57.5°	28046.4	18528.3	4615.8	2536.8	2595.9	2489.5	2743.5	2687.4	2362.5	2073.1
37165.8	60°	29992.6	19709.6	4686.7	2380.3	2421.6	2350.7	2622.4	2525.0	2209.0	1928.4
39894.6	62.5°	31814.7	20693.0	4571.5	2223.7	2250.3	2220.8	2463.0	2333.0	2055.4	1766.0
42738.5	65°	33642.7	21277.7	4217.1	2070.2	2076.1	2061.3	2238.5	2126.3	1875.3	1624.3
45228.0	67.5°	35299.4	21605.5	3653.1	1904.8	1890.0	1884.1	2028.8	1901.9	1701.0	1482.5
47121.0	70°	35650.9	20772.7	2790.8	1709.9	1709.9	1695.1	1798.5	1668.6	1509.1	1331.9
45765.5	72.5°	32561.8	17474.0	1981.6	1488.4	1512.0	1482.5	1568.1	1458.9	1314.2	1196.0
39442.8	75°	26256.8	12813.9	1441.2	1261.0	1302.4	1252.2	1331.9	1255.1	1131.1	1128.1
27181.1	77.5°	18041.0	7923.4	1045.4	1039.5	1069.1	1004.1	1095.6	1054.3	942.1	891.9
11830.5	80°	7699.0	3159.9	761.9	803.3	803.3	744.2	850.5	862.3	764.9	741.2
2282.8	82.5°	1532.7	897.8	534.5	552.2	519.8	502.0	602.4	667.4	921.4	1024.8
688.1	85°	460.7	330.8	321.9	301.2	265.8	268.7	354.4	670.4	826.9	472.5
227.4	87.5°	127.0	82.7	85.6	67.9	56.1	73.8	121.1	507.9	277.6	118.1
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>
11207.3
10850.0
9902.0
8363.4
6677.2
5596.3
4893.4
4683.8
4601.1
4412.1
4196.5
4081.3
4022.2
3921.8
3614.7
3242.6
2843.9
2681.5
2572.2
2486.6
2439.3
2350.7
2200.1
2067.2
1919.6
1763.1
1606.5
1464.8
1326.0
<i>1160.6</i>
1015.9
835.8
741.2
1027.7
407.5
100.4
0.0

F REPORT)