

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: P944604

Luminaire Tested: **GALN-SB9C-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47646 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

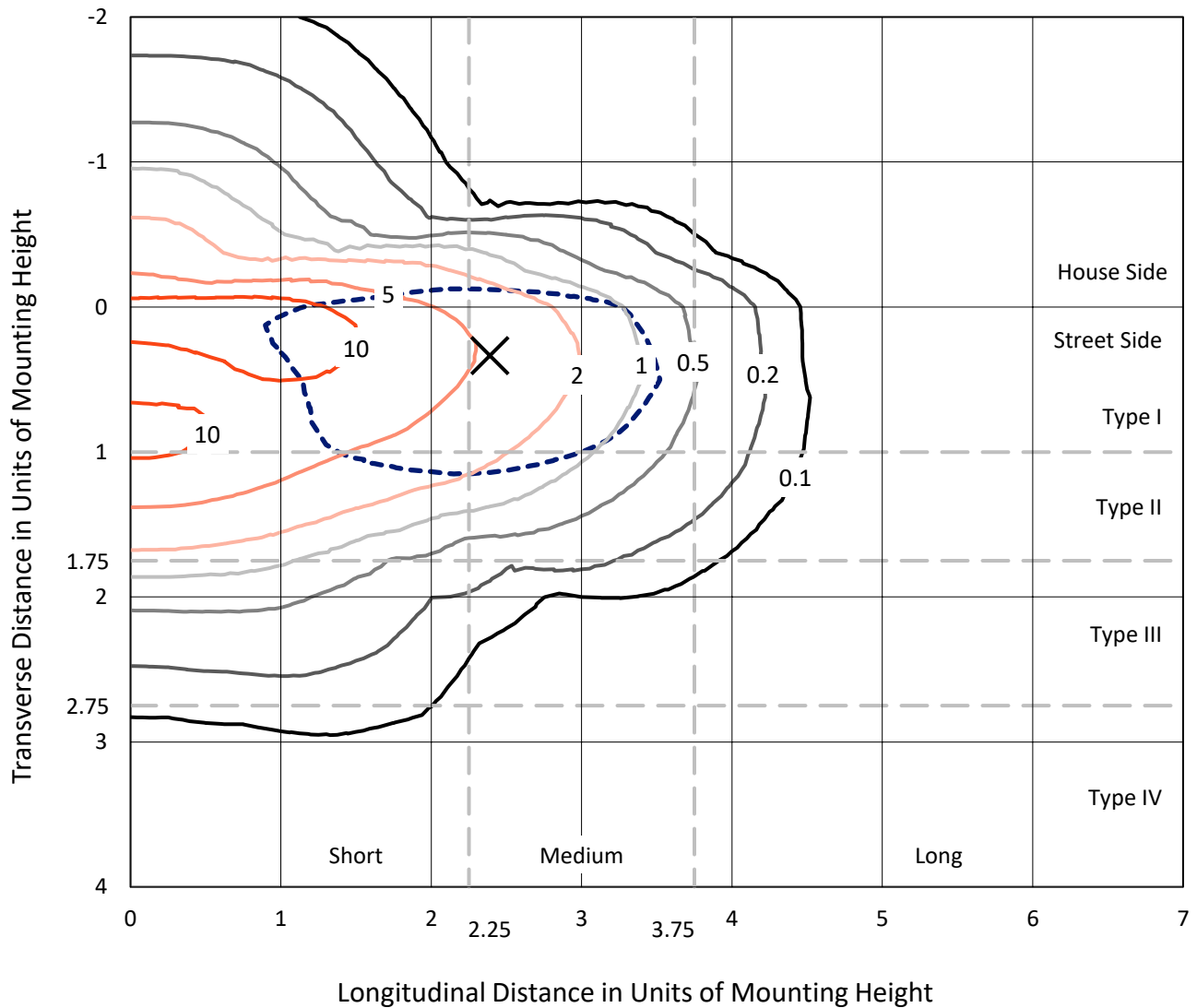
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944604
 CATALOG NUMBER: GALN-SB9C-850-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

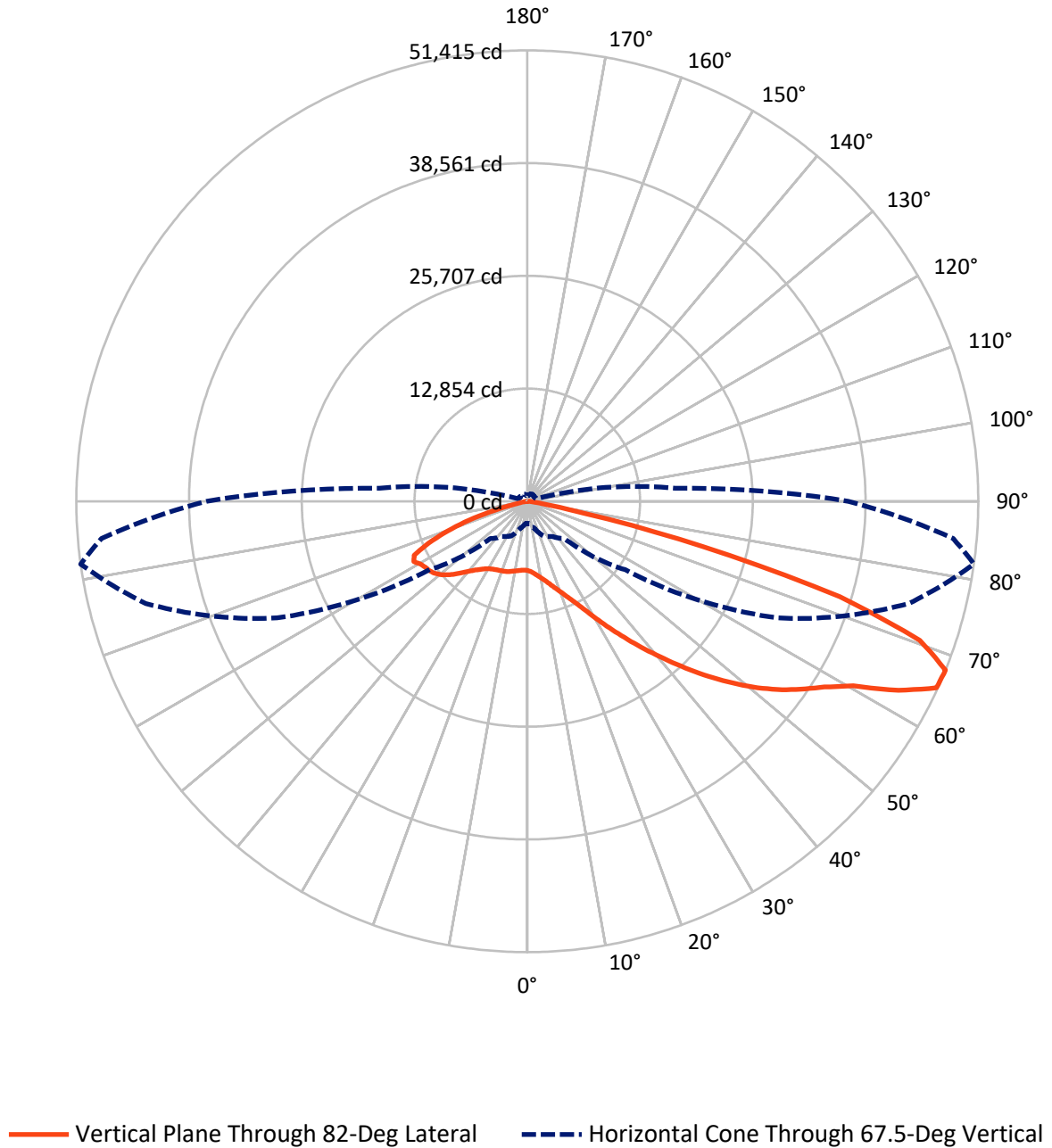
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P944604
CATALOG NUMBER: GALN-SB9C-850-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944604

CATALOG NUMBER: GALN-SB9C-850-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8630.6	0.0	8630.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	39015.3	0.0	39015.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	47646.0	0.0	47646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.2	1.5
10°-20°	1827.4	3.8
20°-30°	2927.0	6.1
30°-40°	5175.8	10.9
40°-50°	9068.4	19.0
50°-60°	12094.8	25.4
60°-70°	11259.6	23.6
70°-80°	4321.4	9.1
80°-90°	268.4	0.6
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°	47646.0	100.0
0°-180°	47646.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944604

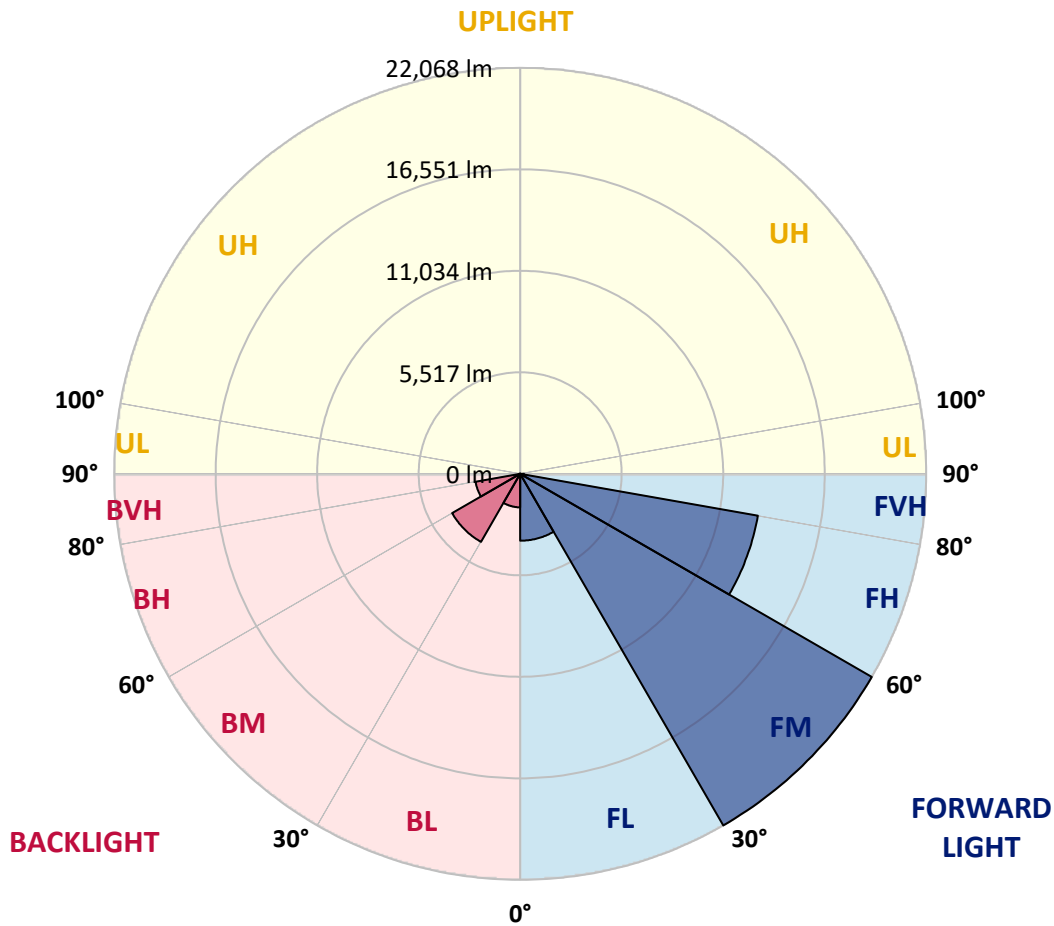
CATALOG NUMBER: GALN-SB9C-850-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3634.9	7.6			
FM (30°-60°)	22067.7	46.3			
FH (60°-80°)	13117.7	27.5			G5
FVH (80°-90°)	195.1	0.4			G2/225
BL (0°-30°)	1822.8	3.8	B3/2500		
BM (30°-60°)	4271.3	9.0	B3/5000		
BH (60°-80°)	2463.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	73.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



REPORT NUMBER: P944604

CATALOG NUMBER: GALN-SB9C-850-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3
2.5°	8342.7	8390.7	8363.3	8349.6	8325.6	8291.3	8263.8	8178.1	8088.9	8030.5
5°	8510.8	8558.8	8555.4	8569.1	8586.3	8596.6	8589.7	8493.6	8366.7	8267.2
7.5°	8366.7	8421.6	8466.2	8534.8	8654.9	8781.8	8843.5	8823.0	8692.6	8555.4
10°	7958.5	8016.8	8123.2	8284.4	8538.2	8812.7	9042.5	9148.9	9066.5	8915.6
12.5°	7210.7	7269.0	7478.3	7828.2	8253.5	8730.3	9169.4	9454.2	9474.7	9323.8
15°	6370.2	6428.6	6651.5	7090.6	7739.0	8503.9	9238.0	9776.6	9958.4	9828.1
17.5°	5848.8	5900.3	6068.4	6421.7	7097.5	8051.1	9214.0	10119.7	10534.7	10431.8
20°	5691.0	5735.6	5814.5	6061.5	6624.1	7581.2	9056.2	10442.1	11155.6	11097.3
22.5°	5859.1	5900.3	5924.3	6034.1	6387.4	7272.4	8857.3	10771.4	11876.0	11882.9
25°	6246.7	6287.9	6260.5	6329.1	6483.4	7176.4	8781.8	11159.1	12781.6	12857.1
27.5°	6884.8	6888.2	6823.0	6819.6	6843.6	7320.5	8860.7	11574.1	13924.0	14064.6
30°	8164.3	8112.9	7862.5	7591.5	7468.0	7752.7	9080.2	12064.7	15272.1	15522.5
32.5°	10136.8	10061.3	9601.7	8953.3	8301.5	8449.1	9474.7	12623.8	16740.3	17193.1
35°	12277.4	12256.8	11776.5	10812.6	9673.7	9440.4	10116.2	13357.9	18342.3	19062.7
37.5°	14267.0	14256.7	13982.3	12846.8	11460.9	10822.9	11145.3	14318.5	20057.5	21100.3
40°	16085.1	16116.0	15841.5	14826.2	13430.0	12596.4	12544.9	15505.4	21964.8	23319.8
42.5°	17656.2	17690.5	17412.7	16661.4	15375.0	14558.6	14263.6	16959.9	23827.5	25703.9
45°	18723.1	18935.8	18894.6	18294.3	17371.5	16524.2	16328.7	18784.8	25950.9	28232.1
47.5°	19024.9	19220.5	19529.2	19611.5	19049.0	18215.4	18448.6	20983.7	28098.3	30763.7
50°	18280.6	18462.4	19103.8	19958.0	20349.1	20091.8	20510.3	23340.4	30297.2	33288.5
52.5°	16812.3	16997.6	17807.2	19158.7	20753.9	21563.4	22578.8	25662.8	32427.5	35679.5
55°	14688.9	14884.5	15923.9	17453.8	19982.0	22170.6	24304.3	27981.7	34379.4	37830.4
57.5°	11800.5	11944.6	13025.2	15165.8	18040.4	21566.9	25577.0	30513.3	36218.1	39943.5
60°	7690.9	7817.9	9073.4	11460.9	14822.7	19549.8	25830.8	33336.5	38660.5	42691.2
62.5°	5114.7	5200.5	5944.9	7697.8	10438.7	15676.9	24345.5	35590.3	42241.8	47473.2
65°	3509.3	3595.0	4339.4	5560.7	6744.1	10370.1	20074.6	35291.9	45487.0	51270.6
67.5°	2504.2	2576.2	3207.4	4360.0	4881.4	6023.8	13608.4	31477.3	45020.5	51414.7
70°	1794.1	1835.3	2356.7	3396.1	3879.8	3619.1	7567.4	24074.5	39418.6	47476.6
72.5°	1255.5	1269.2	1636.3	2586.5	3125.1	2641.4	3601.9	16050.8	29813.5	37264.3
75°	850.7	867.9	1101.2	1897.0	2507.6	2017.1	1907.3	8606.9	17501.9	20626.9
77.5°	521.4	528.3	710.1	1296.7	1876.4	1536.8	1228.1	3646.5	6771.6	6648.1
80°	295.0	295.0	452.8	806.1	1279.5	991.4	861.0	1550.5	2144.0	1883.3
82.5°	164.7	168.1	329.3	500.8	847.3	586.6	473.4	717.0	926.2	819.9
85°	68.6	75.5	202.4	236.7	404.8	291.6	192.1	301.9	343.0	305.3
87.5°	6.9	10.3	61.7	44.6	48.0	58.3	27.4	58.3	48.0	48.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944604
 CATALOG NUMBER: GALN-SB9C-850-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7893.3	0°	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3	7893.3
8010.0	2.5°	7944.8	7893.3	7763.0	7612.0	7413.1	7317.0	7186.7	7097.5	7022.0	7028.9
8208.9	5°	8099.2	7968.8	7677.2	7313.6	6860.8	6538.3	6195.3	5958.6	5766.5	5725.3
8483.4	7.5°	8311.8	8106.0	7594.9	6939.7	6174.7	5595.0	5077.0	4744.2	4507.5	4432.1
8816.1	10°	8586.3	8287.8	7488.5	6469.7	5368.6	4631.0	4075.3	3814.6	3653.4	3598.5
9207.2	12.5°	8905.3	8497.1	7347.9	5896.8	4538.4	3828.3	3475.0	3344.6	3293.2	3276.0
9687.4	15°	9306.7	8757.8	7135.2	5217.6	3835.2	3337.8	3186.8	3169.7	3176.5	3169.7
10263.7	17.5°	9783.5	9042.5	6788.7	4517.8	3361.8	3087.4	3032.5	3046.2	3063.3	3059.9
10908.6	20°	10304.9	9323.8	6346.2	3896.9	3039.3	2909.0	2878.1	2891.8	2905.5	2898.7
11653.0	22.5°	10898.4	9625.7	5855.7	3413.2	2823.2	2744.3	2710.0	2713.4	2713.4	2699.7
12596.4	25°	11608.4	9958.4	5341.1	3070.2	2658.6	2596.8	2555.6	2541.9	2521.3	2480.2
13742.1	27.5°	12455.7	10311.8	4847.1	2830.1	2528.2	2469.9	2421.9	2387.6	2336.1	2267.5
15117.7	30°	13409.4	10740.6	4428.6	2679.1	2425.3	2367.0	2312.1	2260.6	2185.2	2099.4
16699.1	32.5°	14531.1	11200.2	4123.3	2579.7	2332.7	2270.9	2205.7	2144.0	2061.7	1975.9
18476.1	35°	15869.0	11756.0	3944.9	2511.0	2260.6	2178.3	2106.3	2037.7	1975.9	1900.4
20407.4	37.5°	17320.0	12346.0	3890.1	2476.7	2212.6	2085.7	2003.3	1955.3	1948.5	1903.9
22496.5	40°	18908.3	13045.8	3931.2	2456.2	2161.1	1996.5	1907.3	1897.0	1914.2	1835.3
24729.7	42.5°	20589.2	13875.9	3999.8	2432.1	2089.1	1907.3	1821.5	1821.5	1807.8	1698.0
27089.8	45°	22407.3	14833.0	4068.4	2373.8	2003.3	1818.1	1752.9	1728.9	1670.6	1564.3
29463.6	47.5°	24239.1	15807.2	4119.9	2267.5	1900.4	1742.6	1684.3	1629.4	1543.7	1447.6
31792.9	50°	25978.4	16682.0	4065.0	2109.7	1783.8	1670.6	1608.9	1533.4	1440.8	1375.6
33998.6	52.5°	27532.3	17440.1	3831.7	1924.4	1660.3	1595.1	1540.2	1461.3	1385.9	1317.3
35988.2	55°	28883.9	18054.1	3420.1	1749.5	1550.5	1530.0	1475.1	1375.6	1272.7	1214.4
37960.7	57.5°	30180.6	18520.7	2905.5	1605.4	1451.1	1457.9	1375.6	1286.4	1190.3	1128.6
40619.3	60°	31906.1	19145.0	2384.1	1471.6	1344.7	1365.3	1276.1	1210.9	1090.9	1012.0
45178.3	62.5°	34664.1	20115.8	1893.6	1307.0	1221.2	1228.1	1190.3	1111.4	967.4	874.7
48557.2	65°	36852.7	19759.1	1492.2	1128.6	1080.6	1090.9	1090.9	1005.1	850.7	744.4
48739.0	67.5°	36605.7	16918.7	1190.3	953.6	946.8	953.6	977.7	905.6	754.7	668.9
45027.3	70°	33720.7	13457.4	953.6	792.4	823.3	806.1	874.7	826.7	679.2	593.5
34907.7	72.5°	27515.2	9694.3	727.2	655.2	631.2	658.6	789.0	744.4	566.0	470.0
18489.8	75°	16078.2	5173.0	542.0	518.0	456.2	548.9	699.8	634.6	432.2	346.5
5667.0	77.5°	5234.8	1804.4	397.9	380.8	339.6	442.5	596.9	535.1	353.3	274.4
1660.3	80°	1403.0	545.4	271.0	250.4	219.5	329.3	473.4	425.4	253.8	178.4
713.5	82.5°	562.6	229.8	157.8	140.6	120.1	226.4	373.9	343.0	188.7	113.2
223.0	85°	181.8	75.5	58.3	44.6	54.9	140.6	223.0	233.3	133.8	58.3
34.3	87.5°	24.0	10.3	10.3	13.7	10.3	24.0	68.6	65.2	37.7	6.9
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>
7893.3
6960.3
5632.7
4356.6
3557.3
3265.7
3166.3
3053.0
2895.3
2692.9
2473.3
2260.6
2092.5
1979.3
1893.6
1900.4
1838.7
1698.0
1560.8
1444.2
1365.3
1310.4
1207.5
1121.7
1001.7
867.9
734.1
655.2
583.2
459.7
336.2
264.1
174.9
113.2
44.6
0.0
0.0

F REPORT)