

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: P942055

Luminaire Tested: **GALN-SB5D-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942055  
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-SB5D-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48718 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

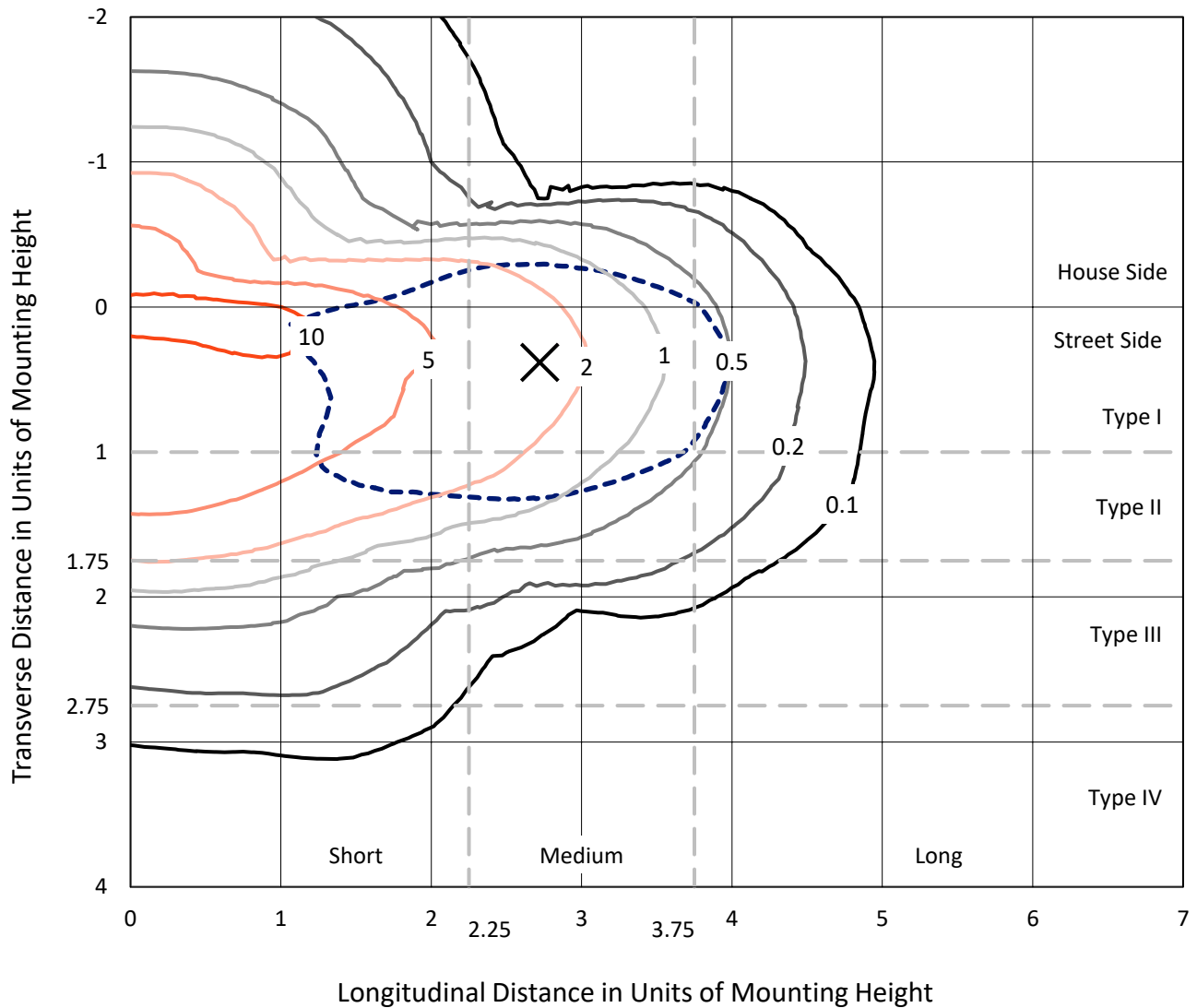
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P942055  
 CATALOG NUMBER: GALN-SB5D-850-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

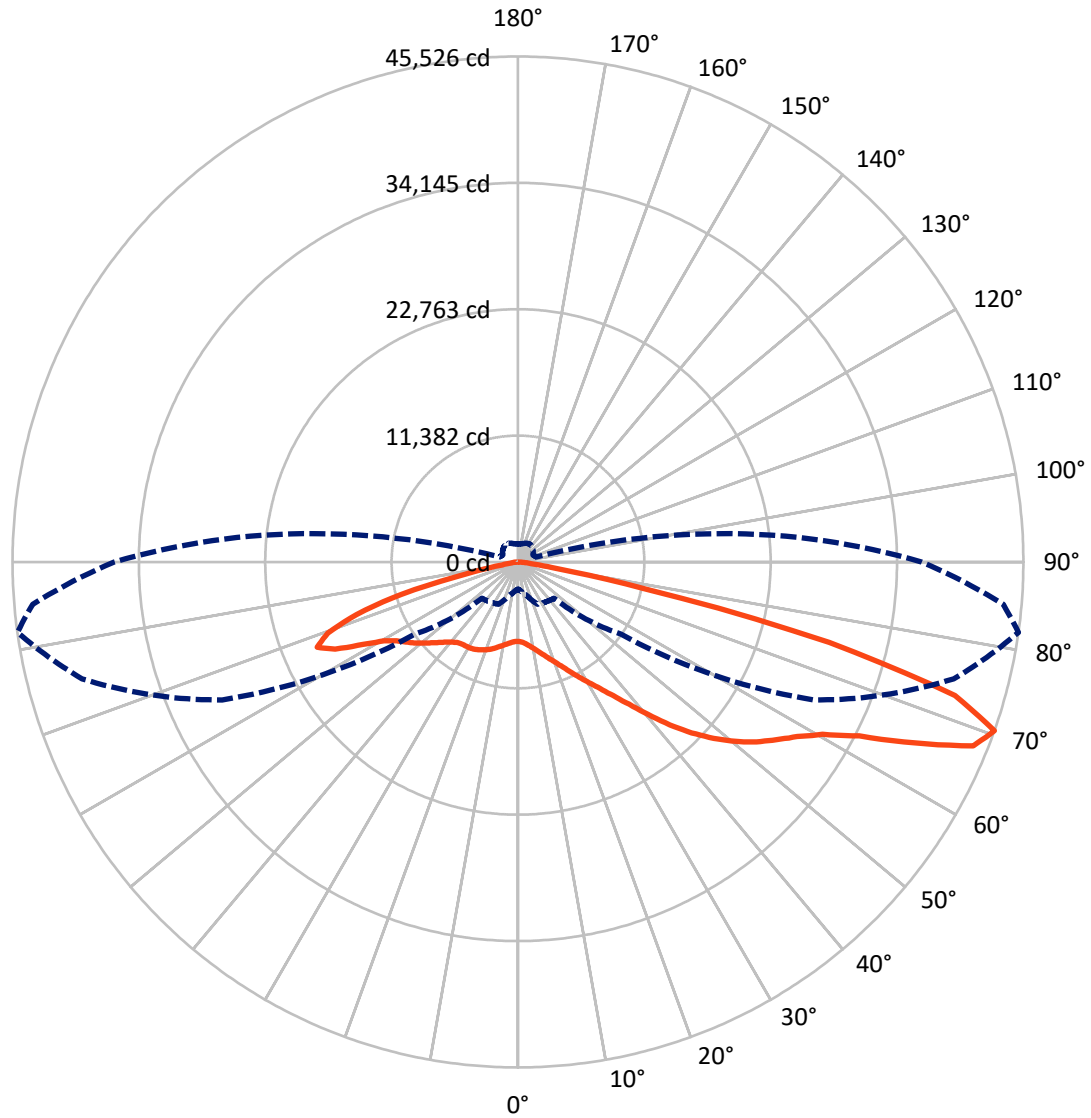
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Medium - N/A

REPORT NUMBER: P942055  
CATALOG NUMBER: GALN-SB5D-850-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P942055

CATALOG NUMBER: GALN-SB5D-850-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12010.2	0.0	12010.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	36707.8	0.0	36707.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	48718.0	0.0	48718.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	674.4	1.4
10°-20°	1937.6	4.0
20°-30°	3241.4	6.7
30°-40°	5063.9	10.4
40°-50°	8064.8	16.6
50°-60°	11223.1	23.0
60°-70°	11739.9	24.1
70°-80°	6135.9	12.6
80°-90°	637.1	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°	48718.0	100.0
0°-180°	48718.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942055

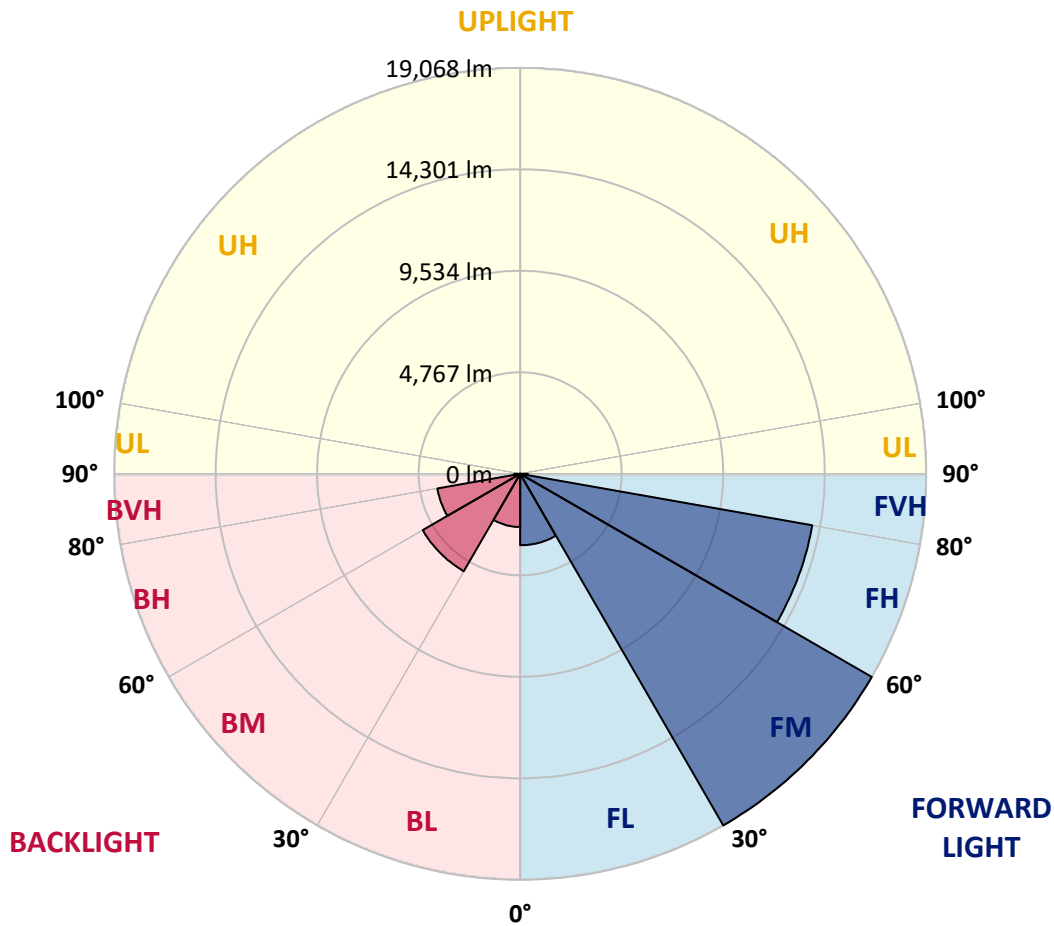
CATALOG NUMBER: GALN-SB5D-850-U-T2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3354.8	6.9			
FM (30°-60°)	19067.7	39.1			
FH (60°-80°)	13928.6	28.6			G5
FVH (80°-90°)	356.7	0.7			G3/500
BL (0°-30°)	2498.6	5.1	B3/2500		
BM (30°-60°)	5284.0	10.8	B4/8500		
BH (60°-80°)	3947.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	280.5	0.6			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: P942055

CATALOG NUMBER: GALN-SB5D-850-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7
2.5°	7313.3	7354.6	7341.7	7328.8	7328.8	7310.7	7308.1	7282.3	7261.6	7228.0
5°	7406.3	7450.3	7445.1	7455.5	7489.1	7496.8	7504.6	7489.1	7447.7	7406.3
7.5°	7323.6	7372.7	7388.3	7450.3	7553.7	7646.8	7716.6	7745.0	7706.2	7646.8
10°	7044.4	7098.7	7153.0	7300.4	7483.9	7703.6	7889.8	8000.9	7993.2	7936.3
12.5°	6478.3	6535.2	6651.5	6938.4	7274.5	7662.3	8008.7	8241.3	8321.5	8280.1
15°	6025.9	6075.0	6162.9	6457.6	6894.5	7483.9	8052.6	8505.0	8709.2	8686.0
17.5°	6013.0	6033.7	6087.9	6227.5	6563.6	7204.7	8006.1	8763.5	9153.9	9151.3
20°	6240.5	6248.2	6279.2	6307.7	6499.0	6992.7	7887.2	8978.1	9652.8	9652.8
22.5°	6555.8	6550.7	6581.7	6555.8	6648.9	6974.6	7812.2	9166.8	10208.6	10250.0
25°	7028.9	7003.1	6995.3	6935.9	6954.0	7142.7	7894.9	9381.4	10867.8	10953.1
27.5°	7659.7	7618.3	7589.9	7452.9	7406.3	7489.1	8148.3	9639.9	11602.0	11749.3
30°	8481.8	8406.8	8365.4	8127.6	7959.6	7972.5	8530.9	9983.7	12369.8	12607.6
32.5°	9603.7	9487.4	9376.2	8985.9	8678.2	8577.4	9024.6	10459.4	13202.2	13582.2
35°	10860.1	10767.0	10648.1	10045.8	9572.7	9340.0	9691.6	11123.7	14176.8	14779.1
37.5°	12069.9	11989.8	12046.6	11234.9	10624.8	10286.2	10565.4	12015.6	15378.8	16268.1
40°	13321.1	13259.0	13266.8	12491.3	11780.4	11400.3	11625.3	13135.0	16756.7	18038.9
42.5°	14680.9	14634.3	14479.2	13791.6	12992.8	12638.6	12845.4	14427.5	18235.4	20055.3
45°	16203.5	16175.1	16030.3	15241.8	14326.7	13928.6	14207.8	15854.5	19721.8	21952.8
47.5°	17519.3	17542.6	17524.5	16860.1	15911.4	15327.1	15660.6	17343.5	21104.9	23736.5
50°	18152.7	18274.2	18452.5	18245.7	17656.3	17061.7	17126.4	18780.8	22423.3	25409.1
52.5°	17821.8	18051.8	18537.8	18868.7	19096.2	18972.1	18798.9	20207.8	23664.1	26918.8
55°	16588.7	16911.8	17718.4	18517.2	19677.9	20580.1	20807.6	21789.9	24874.0	28247.5
57.5°	14342.2	14867.0	15590.8	17206.5	19160.9	21358.2	23149.7	23984.7	26156.2	29666.8
60°	10490.4	11193.5	12093.2	14497.3	17351.3	20942.0	25142.8	27355.7	27978.7	31504.8
62.5°	6713.5	7147.8	7975.1	10239.6	13520.1	18809.3	25752.9	31569.4	31067.9	34519.0
65°	4596.3	4875.5	5633.0	6904.8	8740.3	14001.0	24119.1	34728.4	35974.4	39296.3
67.5°	3340.0	3551.9	4198.2	5312.4	5695.0	8285.3	18716.2	34583.6	40744.0	44218.4
70°	2435.2	2585.1	3128.0	4198.2	4381.8	4609.3	11338.3	29397.9	40640.6	45526.4
72.5°	1804.4	1907.8	2272.3	3257.2	3546.8	3112.5	5612.3	21366.0	34922.3	41178.3
75°	1305.5	1383.0	1651.9	2492.0	2838.5	2370.5	2799.7	12486.1	24359.5	28966.2
77.5°	997.9	1057.3	1233.1	1825.1	2272.3	1778.6	1737.2	5744.1	11550.3	11607.2
80°	801.4	840.2	935.8	1284.8	1742.4	1331.3	1132.3	2318.8	3650.2	3089.2
82.5°	589.4	654.0	791.0	902.2	1246.0	917.7	690.2	1171.1	1388.2	1194.3
85°	336.1	380.0	478.2	646.3	796.2	561.0	395.5	519.6	646.3	529.9
87.5°	118.9	155.1	168.0	253.3	346.4	232.7	152.5	149.9	212.0	157.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942055  
 CATALOG NUMBER: GALN-SB5D-850-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7142.7	0°	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7
7220.2	2.5°	7194.4	7181.4	7129.7	7059.9	6987.6	6917.8	6894.5	6845.4	6811.8	6793.7
7388.3	5°	7339.1	7297.8	7176.3	7021.2	6858.3	6682.5	6558.4	6444.7	6362.0	6284.4
7618.3	7.5°	7545.9	7473.6	7264.2	6992.7	6703.2	6411.1	6193.9	6028.5	5917.3	5844.9
7887.2	10°	7786.4	7675.2	7354.6	6948.8	6501.6	6082.8	5826.8	5684.7	5614.9	5576.1
8194.8	12.5°	8063.0	7905.3	7447.7	6848.0	6193.9	5715.7	5539.9	5498.5	5501.1	5503.7
8582.6	15°	8404.2	8184.5	7522.7	6628.2	5793.2	5433.9	5402.9	5470.1	5539.9	5573.5
9022.0	17.5°	8789.4	8479.2	7535.6	6266.3	5400.3	5253.0	5351.2	5496.0	5601.9	5648.5
9513.2	20°	9203.0	8779.0	7442.5	5754.5	5077.2	5105.6	5281.4	5467.5	5583.8	5643.3
10074.2	22.5°	9676.1	9099.6	7220.2	5216.8	4813.5	4945.3	5152.1	5333.1	5454.6	5514.0
10733.4	25°	10216.4	9458.9	6871.2	4764.4	4586.0	4764.4	4971.2	5121.1	5219.3	5273.6
11470.1	27.5°	10816.1	9833.8	6405.9	4405.0	4386.9	4578.2	4748.9	4865.2	4916.9	4958.2
12253.4	30°	11418.4	10175.0	5842.4	4133.6	4213.7	4394.7	4516.2	4567.9	4583.4	4591.2
13127.2	32.5°	12069.9	10469.7	5250.4	3908.7	4048.3	4216.3	4288.7	4312.0	4239.6	4190.5
14187.1	35°	12858.4	10785.1	4671.3	3730.3	3885.4	4030.2	4053.5	4032.8	3947.5	3846.6
15515.8	37.5°	13832.9	11178.0	4208.6	3603.6	3732.9	3828.6	3800.1	3794.9	3802.7	3683.8
17113.4	40°	15027.3	11689.9	3869.9	3505.4	3608.8	3629.5	3549.4	3593.3	3632.1	3451.1
18866.2	42.5°	16353.4	12307.7	3655.4	3438.2	3505.4	3456.3	3332.2	3381.3	3376.2	3138.3
20626.6	45°	17705.4	12979.9	3580.4	3389.1	3409.8	3311.5	3174.5	3187.4	3078.9	2864.3
22314.7	47.5°	19049.7	13701.1	3626.9	3347.7	3290.8	3179.7	3073.7	3016.8	2856.6	2696.3
23933.0	50°	20368.1	14458.5	3797.5	3265.0	3128.0	3063.4	2985.8	2885.0	2714.4	2577.4
25463.4	52.5°	21590.9	15221.1	3988.8	3128.0	2923.8	2962.5	2913.4	2797.1	2629.1	2489.5
26911.0	55°	22749.0	15983.8	4063.8	2939.3	2732.5	2874.6	2846.2	2631.6	2430.0	2316.3
28425.9	57.5°	24010.5	16901.5	3981.1	2698.9	2577.4	2773.8	2665.3	2427.4	2311.1	2225.8
30398.3	60°	25758.1	18341.4	3802.7	2401.6	2430.0	2623.9	2437.8	2339.5	2212.9	2117.2
33355.7	62.5°	28661.2	21027.3	3515.8	2106.9	2256.8	2401.6	2329.2	2231.0	2101.7	2008.6
38412.2	65°	32952.4	24760.2	2975.5	1876.8	2062.9	2184.4	2212.9	2114.6	1980.2	1882.0
42843.1	67.5°	36571.6	27102.3	2251.6	1685.5	1863.9	2008.6	2088.8	1993.1	1850.9	1755.3
43879.7	70°	36372.5	25401.3	1719.1	1496.8	1688.1	1835.4	1938.8	1863.9	1711.3	1620.9
39857.3	72.5°	32306.2	21249.6	1390.8	1305.5	1509.7	1654.5	1778.6	1721.7	1566.6	1478.7
29198.9	75°	23733.9	15084.1	1111.6	1111.6	1287.4	1465.8	1602.8	1566.6	1424.4	1362.4
12258.6	77.5°	10004.4	6328.4	871.2	922.9	1070.2	1259.0	1429.6	1442.5	1318.4	1396.0
3241.7	80°	2660.1	1745.0	664.4	726.4	840.2	1039.2	1243.4	1238.3	1103.8	1031.5
1204.7	82.5°	1013.4	687.6	473.1	511.9	607.5	796.2	984.9	1015.9	881.5	762.6
473.1	85°	390.4	294.7	292.1	307.6	354.2	527.4	744.5	770.4	664.4	563.6
131.8	87.5°	100.8	87.9	108.6	103.4	162.9	281.8	426.5	442.1	405.9	235.2
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>
7142.7
6814.4
6315.4
5860.5
5586.4
5508.9
5570.9
5658.8
5658.8
5529.6
5289.1
4973.8
4609.3
4206.0
3851.8
3691.5
3456.3
3135.7
2872.1
2696.3
2567.0
2492.0
2305.9
2218.0
2112.0
2008.6
1887.1
1757.9
1628.6
1478.7
1344.3
1266.7
959.1
762.6
581.7
336.1
0.0

F REPORT)