

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: P941855

Luminaire Tested: **GALN-SB5C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941855
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-SB5C-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33682 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

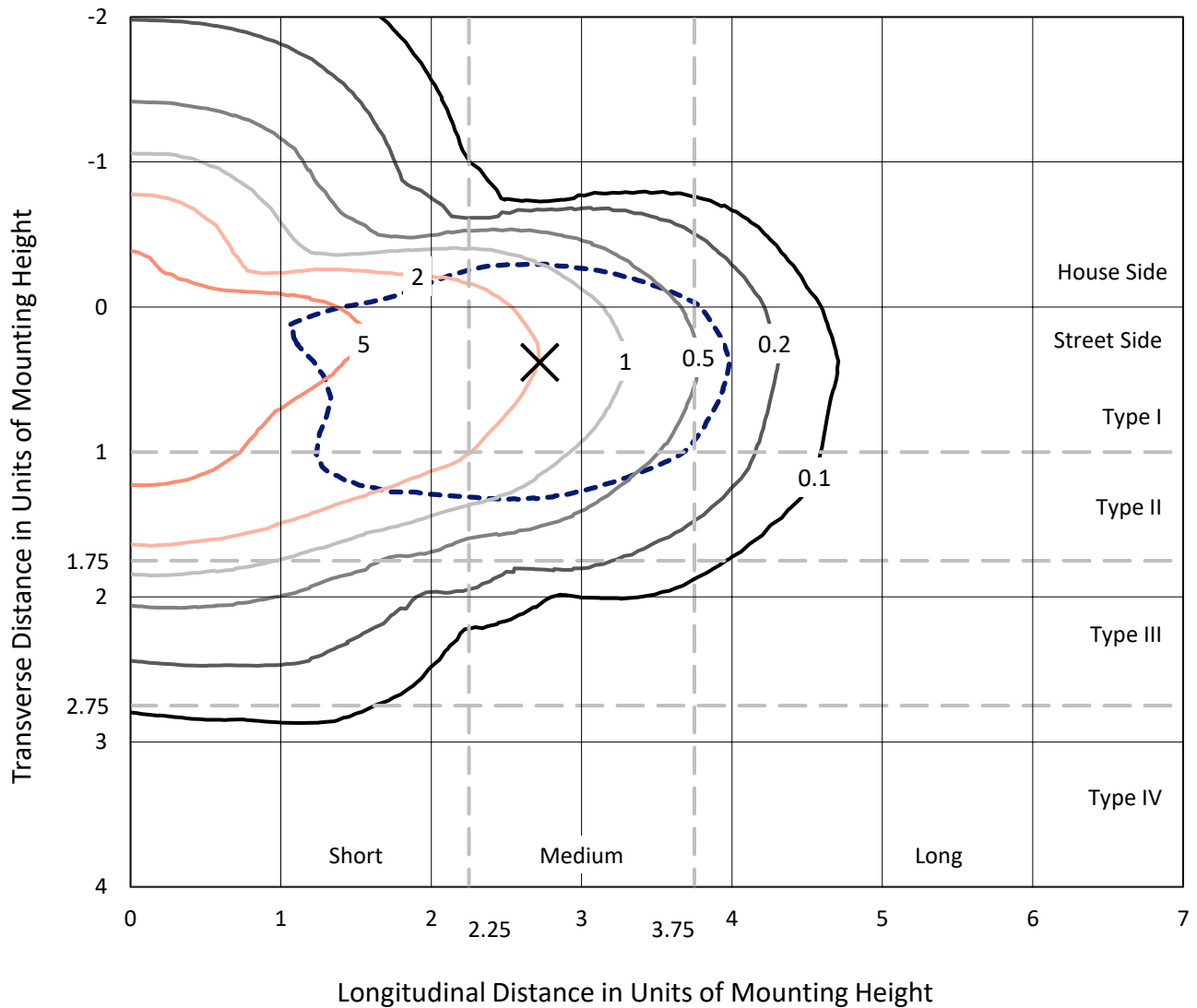
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941855
 CATALOG NUMBER: GALN-SB5C-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

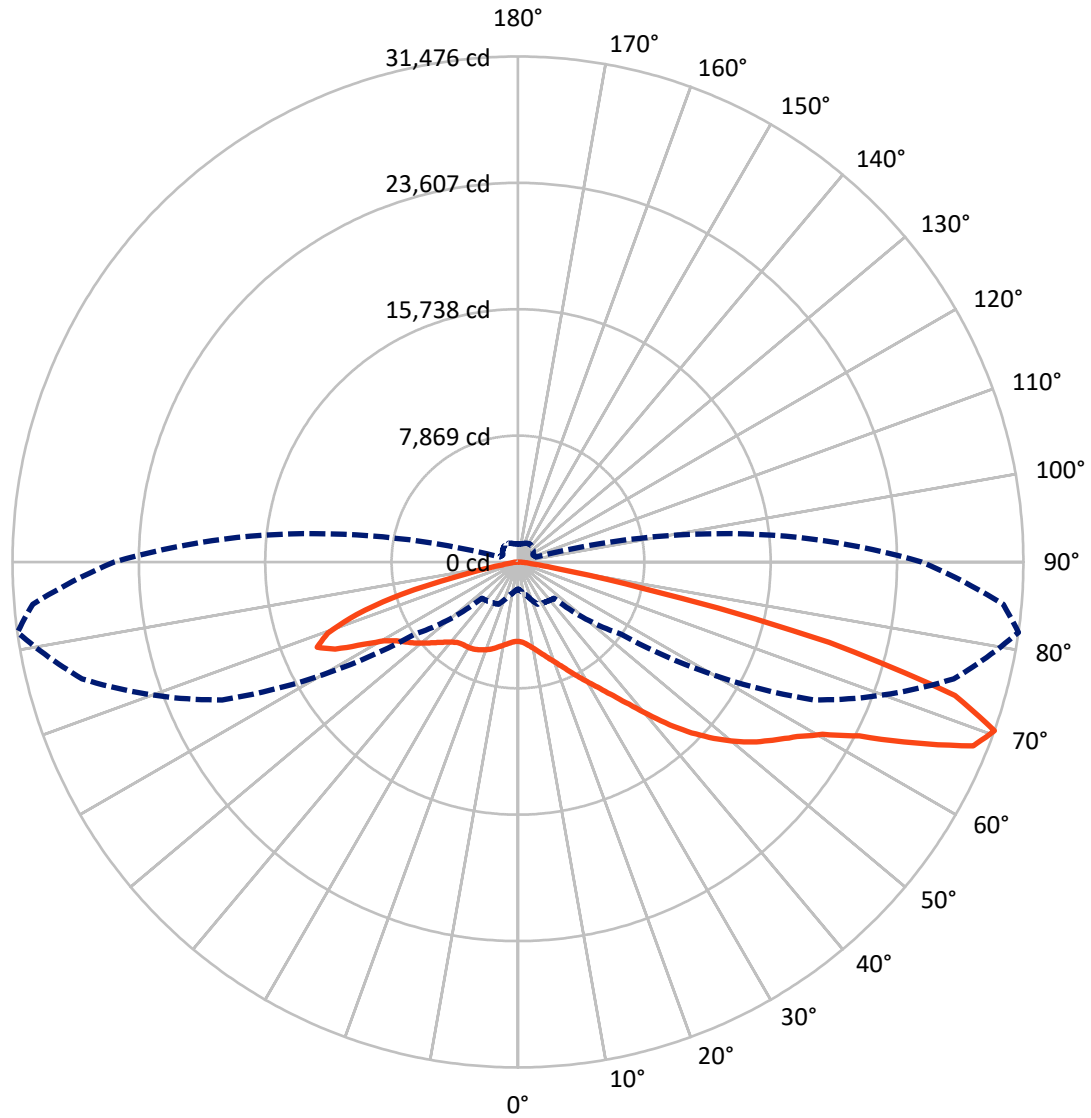
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

REPORT NUMBER: P941855
CATALOG NUMBER: GALN-SB5C-830-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P941855
 CATALOG NUMBER: GALN-SB5C-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8303.4	0.0	8303.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	25378.6	0.0	25378.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	33682.0	0.0	33682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.3	1.4
10°-20°	1339.6	4.0
20°-30°	2241.0	6.7
30°-40°	3501.0	10.4
40°-50°	5575.7	16.6
50°-60°	7759.3	23.0
60°-70°	8116.6	24.1
70°-80°	4242.2	12.6
80°-90°	440.5	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°	33682.0	100.0
0°-180°	33682.0	100.0

Coefficient of Utilization

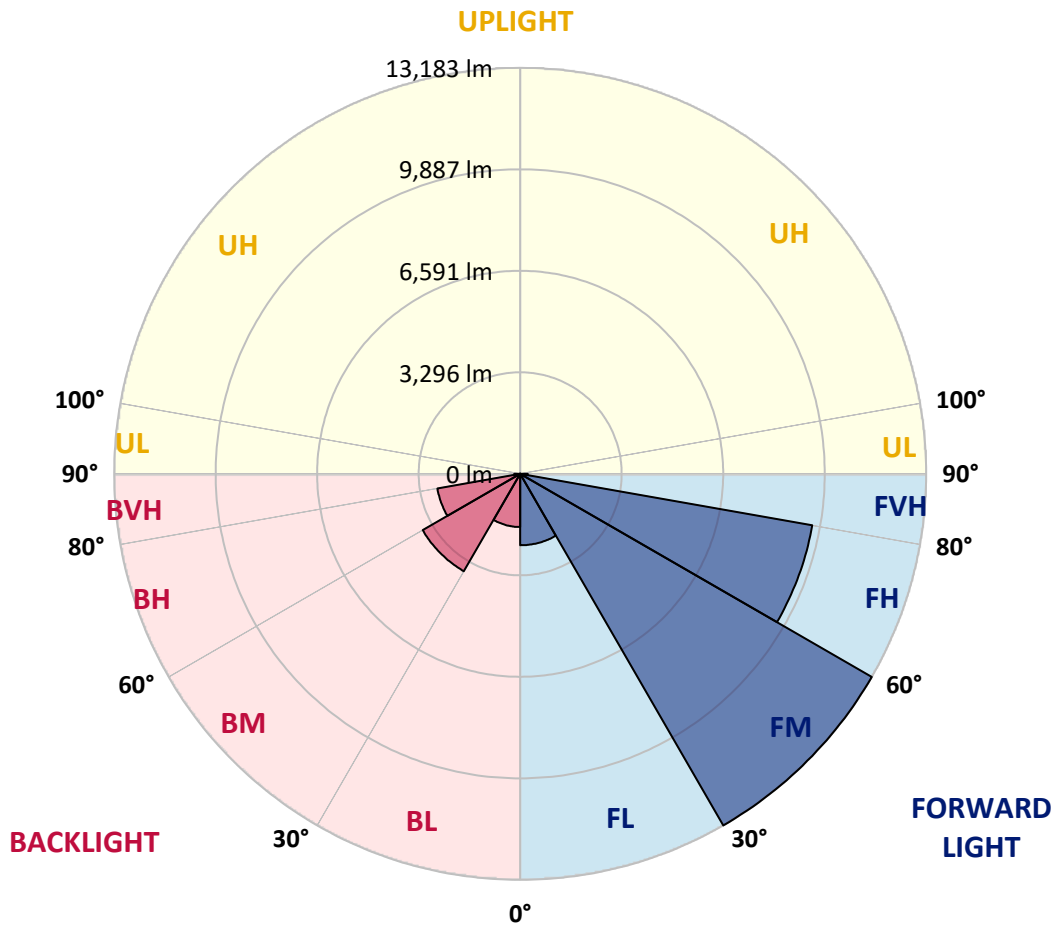


REPORT NUMBER: P941855
 CATALOG NUMBER: GALN-SB5C-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.4	6.9			
FM (30°-60°)	13182.8	39.1			
FH (60°-80°)	9629.8	28.6			G4/12000
FVH (80°-90°)	246.6	0.7			G3/500
BL (0°-30°)	1727.4	5.1	B3/2500		
BM (30°-60°)	3653.2	10.8	B3/5000		
BH (60°-80°)	2728.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	193.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



REPORT NUMBER: P941855
 CATALOG NUMBER: GALN-SB5C-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2
2.5°	5056.2	5084.8	5075.8	5066.9	5066.9	5054.4	5052.6	5034.7	5020.4	4997.2
5°	5120.5	5150.9	5147.3	5154.5	5177.7	5183.1	5188.4	5177.7	5149.1	5120.5
7.5°	5063.3	5097.3	5108.0	5150.9	5222.4	5286.7	5335.0	5354.6	5327.8	5286.7
10°	4870.3	4907.8	4945.4	5047.2	5174.1	5326.0	5454.7	5531.6	5526.2	5486.9
12.5°	4478.9	4518.2	4598.6	4797.0	5029.4	5297.4	5536.9	5697.8	5753.2	5724.6
15°	4166.1	4200.1	4260.8	4464.6	4766.6	5174.1	5567.3	5880.1	6021.3	6005.2
17.5°	4157.2	4171.5	4209.0	4305.5	4537.9	4981.1	5535.1	6058.8	6328.7	6326.9
20°	4314.4	4319.8	4341.3	4360.9	4493.2	4834.5	5452.9	6207.2	6673.6	6673.6
22.5°	4532.5	4528.9	4550.4	4532.5	4596.8	4822.0	5401.1	6337.6	7057.9	7086.5
25°	4859.6	4841.7	4836.3	4795.2	4807.7	4938.2	5458.3	6486.0	7513.6	7572.6
27.5°	5295.7	5267.1	5247.4	5152.7	5120.5	5177.7	5633.4	6664.7	8021.2	8123.1
30°	5864.0	5812.2	5783.6	5619.1	5503.0	5511.9	5898.0	6902.4	8552.0	8716.5
32.5°	6639.7	6559.2	6482.4	6212.5	5999.8	5930.1	6239.3	7231.3	9127.5	9390.3
35°	7508.3	7443.9	7361.7	6945.3	6618.2	6457.4	6700.4	7690.6	9801.3	10217.8
37.5°	8344.7	8289.3	8328.6	7767.4	7345.6	7111.5	7304.5	8307.2	10632.4	11247.2
40°	9209.8	9166.9	9172.2	8636.0	8144.5	7881.8	8037.3	9081.1	11585.0	12471.5
42.5°	10149.9	10117.7	10010.4	9535.0	8982.8	8737.9	8880.9	9974.7	12607.3	13865.6
45°	11202.6	11182.9	11082.8	10537.7	9905.0	9629.8	9822.8	10961.3	13635.0	15177.4
47.5°	12112.3	12128.4	12115.8	11656.5	11000.6	10596.7	10827.2	11990.7	14591.2	16410.6
50°	12550.1	12634.1	12757.5	12614.5	12207.0	11795.9	11840.6	12984.5	15502.7	17567.0
52.5°	12321.4	12480.4	12816.4	13045.2	13202.5	13116.7	12997.0	13971.0	16360.6	18610.7
55°	11468.9	11692.3	12249.9	12802.2	13604.6	14228.4	14385.7	15064.8	17197.0	19529.4
57.5°	9915.7	10278.5	10779.0	11896.0	13247.2	14766.4	16004.9	16582.2	18083.5	20510.6
60°	7252.7	7738.8	8360.8	10023.0	11996.1	14478.6	17382.9	18912.8	19343.5	21781.4
62.5°	4641.5	4941.8	5513.7	7079.3	9347.4	13004.1	17804.7	21826.0	21479.3	23865.3
65°	3177.8	3370.8	3894.4	4773.8	6042.7	9679.8	16675.1	24010.1	24871.5	27168.2
67.5°	2309.1	2455.7	2902.5	3672.8	3937.3	5728.2	12939.8	23910.0	28169.0	30571.1
70°	1683.6	1787.3	2162.6	2902.5	3029.4	3186.7	7838.9	20324.7	28097.5	31475.5
72.5°	1247.5	1319.0	1571.0	2251.9	2452.1	2151.9	3880.1	14771.7	24144.1	28469.3
75°	902.6	956.2	1142.1	1722.9	1962.4	1638.9	1935.6	8632.5	16841.4	20026.3
77.5°	689.9	731.0	852.5	1261.8	1571.0	1229.6	1201.0	3971.3	7985.5	8024.8
80°	554.1	580.9	647.0	888.3	1204.6	920.4	782.8	1603.2	2523.6	2135.8
82.5°	407.5	452.2	546.9	623.8	861.5	634.5	477.2	809.6	959.8	825.7
85°	232.3	262.7	330.6	446.8	550.5	387.8	273.5	359.2	446.8	366.4
87.5°	82.2	107.2	116.2	175.2	239.5	160.9	105.4	103.7	146.6	109.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941855
 CATALOG NUMBER: GALN-SB5C-830-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4938.2	0°	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2	4938.2
4991.8	2.5°	4973.9	4965.0	4929.3	4881.0	4831.0	4782.7	4766.6	4732.7	4709.4	4696.9
5108.0	5°	5074.0	5045.4	4961.4	4854.2	4741.6	4620.1	4534.3	4455.6	4398.4	4344.8
5267.1	7.5°	5217.0	5167.0	5022.2	4834.5	4634.4	4432.4	4282.3	4167.9	4091.0	4041.0
5452.9	10°	5383.2	5306.4	5084.8	4804.2	4495.0	4205.4	4028.5	3930.2	3881.9	3855.1
5665.6	12.5°	5574.5	5465.4	5149.1	4734.5	4282.3	3951.6	3830.1	3801.5	3803.3	3805.1
5933.7	15°	5810.4	5658.5	5200.9	4582.5	4005.3	3756.8	3735.4	3781.8	3830.1	3853.3
6237.5	17.5°	6076.7	5862.2	5209.9	4332.3	3733.6	3631.7	3699.6	3799.7	3873.0	3905.2
6577.1	20°	6362.6	6069.5	5145.5	3978.4	3510.2	3529.8	3651.4	3780.1	3860.5	3901.6
6965.0	22.5°	6689.7	6291.2	4991.8	3606.7	3327.9	3419.0	3562.0	3687.1	3771.1	3812.2
7420.7	25°	7063.3	6539.6	4750.5	3293.9	3170.6	3293.9	3436.9	3540.6	3608.5	3646.0
7930.1	27.5°	7477.9	6798.7	4428.8	3045.5	3033.0	3165.2	3283.2	3363.6	3399.4	3428.0
8471.6	30°	7894.3	7034.7	4039.2	2857.8	2913.2	3038.3	3122.3	3158.1	3168.8	3174.2
9075.7	32.5°	8344.7	7238.4	3629.9	2702.3	2798.9	2915.0	2965.1	2981.2	2931.1	2897.2
9808.5	35°	8889.8	7456.5	3229.6	2579.0	2686.3	2786.3	2802.4	2788.1	2729.1	2659.4
10727.1	37.5°	9563.6	7728.1	2909.7	2491.4	2580.8	2646.9	2627.3	2623.7	2629.1	2546.8
11831.7	40°	10389.3	8082.0	2675.5	2423.5	2495.0	2509.3	2453.9	2484.3	2511.1	2386.0
13043.4	42.5°	11306.2	8509.2	2527.2	2377.1	2423.5	2389.6	2303.8	2337.7	2334.2	2169.7
14260.6	45°	12241.0	8973.8	2475.4	2343.1	2357.4	2289.5	2194.8	2203.7	2128.6	1980.3
15427.6	47.5°	13170.3	9472.5	2507.5	2314.5	2275.2	2198.3	2125.1	2085.7	1974.9	1864.1
16546.5	50°	14081.8	9996.2	2625.5	2257.3	2162.6	2117.9	2064.3	1994.6	1876.6	1781.9
17604.5	52.5°	14927.2	10523.4	2757.7	2162.6	2021.4	2048.2	2014.2	1933.8	1817.6	1721.1
18605.4	55°	15727.9	11050.6	2809.6	2032.1	1889.1	1987.4	1967.8	1819.4	1680.0	1601.4
19652.7	57.5°	16600.1	11685.1	2752.4	1865.9	1781.9	1917.7	1842.7	1678.2	1597.8	1538.8
21016.4	60°	17808.3	12680.6	2629.1	1660.4	1680.0	1814.1	1685.4	1617.5	1529.9	1463.8
23061.0	62.5°	19815.4	14537.6	2430.7	1456.6	1560.3	1660.4	1610.3	1542.4	1453.0	1388.7
26556.9	65°	22782.2	17118.4	2057.1	1297.6	1426.2	1510.2	1529.9	1462.0	1369.0	1301.1
29620.3	67.5°	25284.4	18737.6	1556.7	1165.3	1288.6	1388.7	1444.1	1378.0	1279.7	1213.6
30337.0	70°	25146.8	17561.6	1188.5	1034.8	1167.1	1269.0	1340.4	1288.6	1183.2	1120.6
27556.0	72.5°	22335.4	14691.3	961.5	902.6	1043.8	1143.8	1229.6	1190.3	1083.1	1022.3
20187.1	75°	16408.8	10428.7	768.5	768.5	890.1	1013.4	1108.1	1083.1	984.8	941.9
8475.2	77.5°	6916.7	4375.2	602.3	638.1	739.9	870.4	988.4	997.3	911.5	965.1
2241.2	80°	1839.1	1206.4	459.3	502.2	580.9	718.5	859.7	856.1	763.2	713.1
832.9	82.5°	700.6	475.4	327.1	353.9	420.0	550.5	680.9	702.4	609.5	527.2
327.1	85°	269.9	203.7	202.0	212.7	244.9	364.6	514.7	532.6	459.3	389.6
91.2	87.5°	69.7	60.8	75.1	71.5	112.6	194.8	294.9	305.6	280.6	162.6
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>
4938.2
4711.2
4366.3
4051.7
3862.3
3808.7
3851.5
3912.3
3912.3
3823.0
3656.7
3438.7
3186.7
2907.9
2663.0
2552.2
2389.6
2167.9
1985.6
1864.1
1774.8
1722.9
1594.2
1533.5
1460.2
1388.7
1304.7
1215.3
1126.0
1022.3
929.4
875.8
663.1
527.2
402.1
232.3
0.0

F REPORT)