

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: P951440

Luminaire Tested: **GALN-SB5C-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

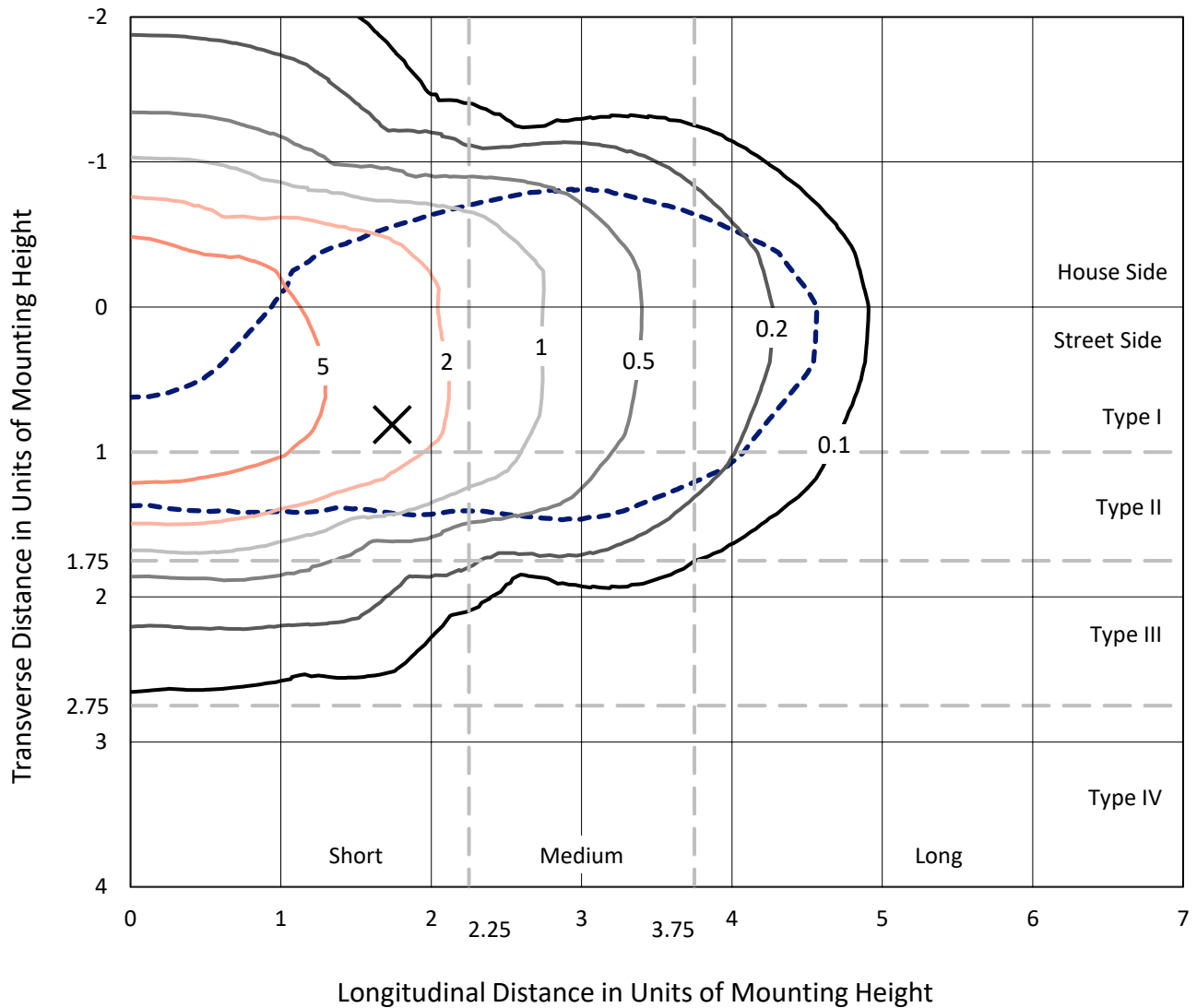
Lumens per Lamp: N/A  
Luminaire Lumens: 34448 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P951440  
 CATALOG NUMBER: GALN-SB5C-830-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

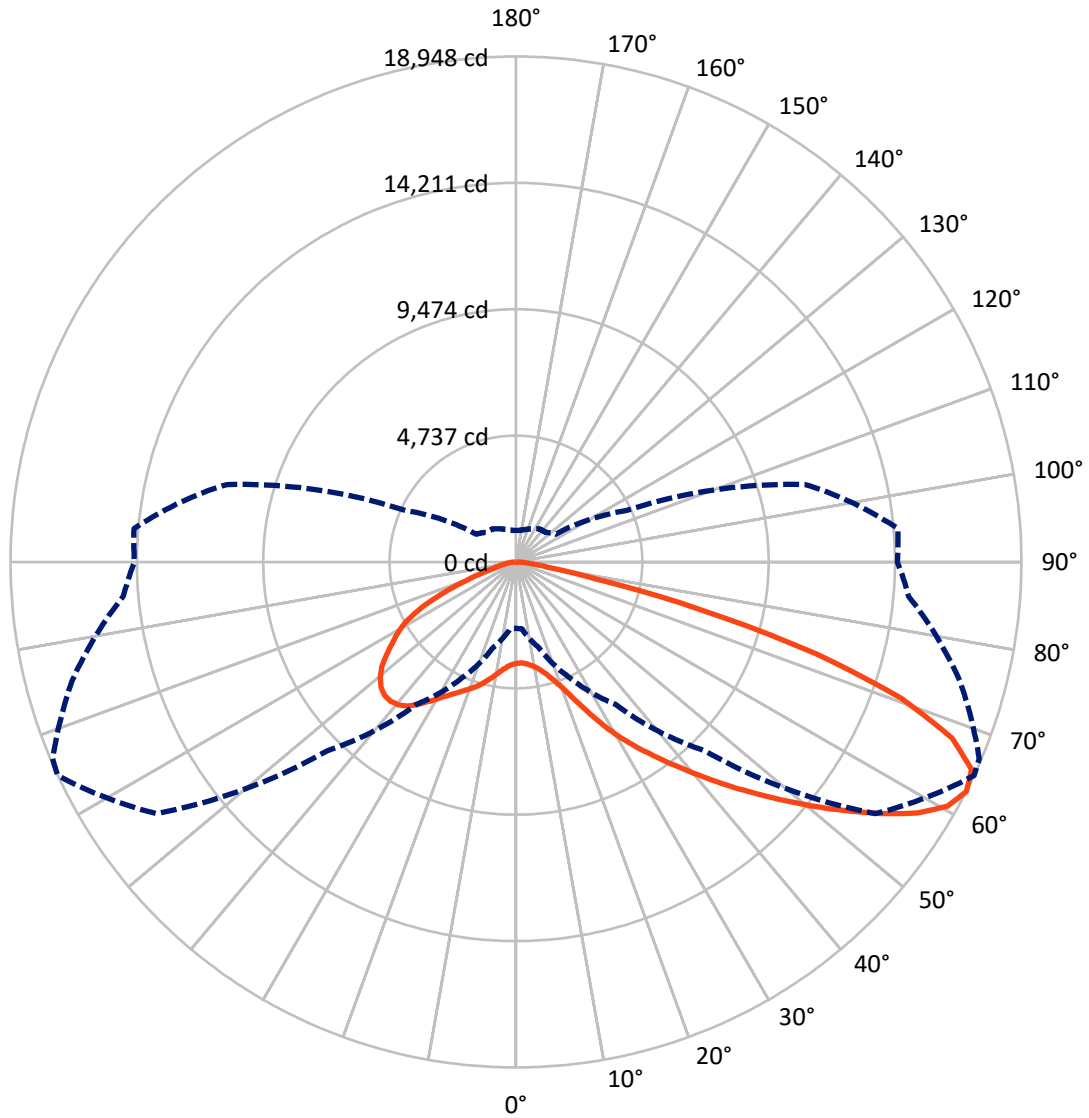
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P951440  
CATALOG NUMBER: GALN-SB5C-830-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P951440  
 CATALOG NUMBER: GALN-SB5C-830-U-T2U

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10870.3	0.0	10870.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	23577.7	0.0	23577.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	34448.0	0.0	34448.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.5	1.1
10°-20°	1283.4	3.7
20°-30°	2602.2	7.6
30°-40°	4503.1	13.1
40°-50°	6814.5	19.8
50°-60°	7989.6	23.2
60°-70°	6698.3	19.4
70°-80°	3698.0	10.7
80°-90°	480.4	1.4
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°	34448.0	100.0
0°-180°	34448.0	100.0



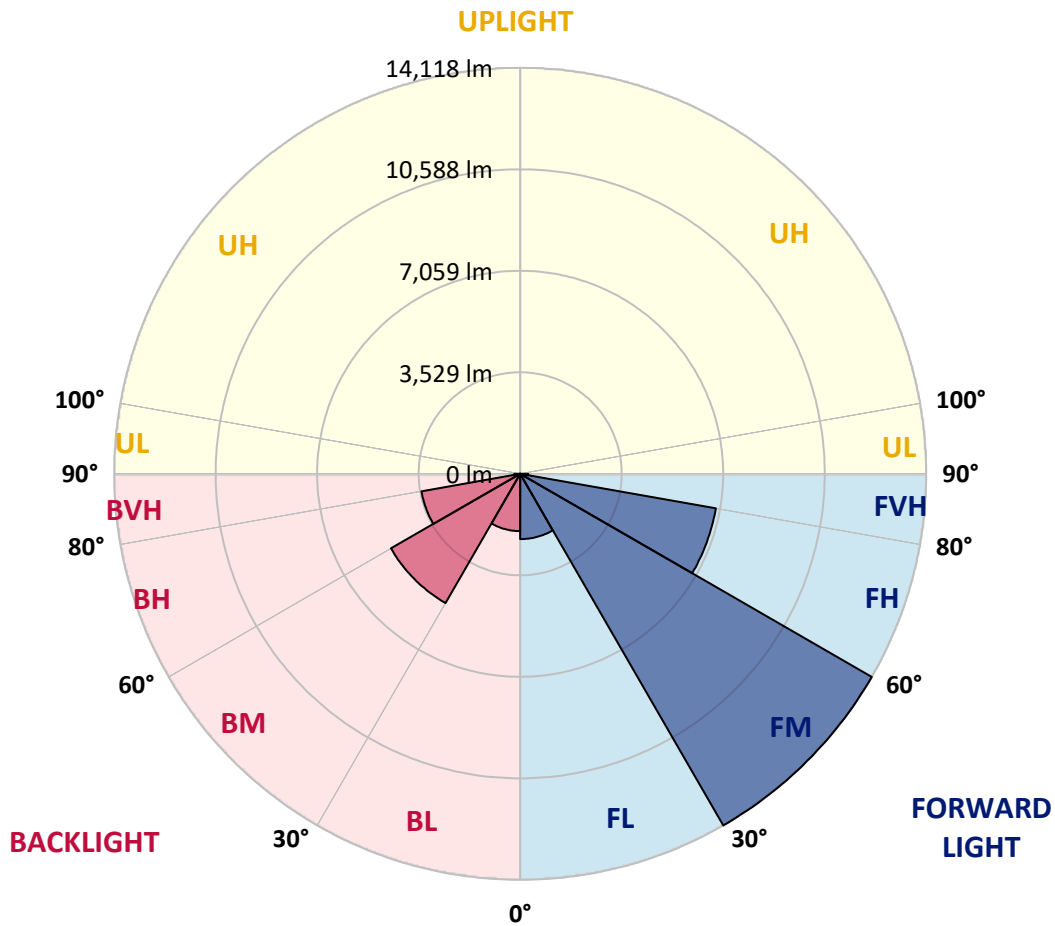
REPORT NUMBER: P951440  
 CATALOG NUMBER: GALN-SB5C-830-U-T2U

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2270.6	6.6			
FM	(30°-60°)	14117.9	41.0			
FH	(60°-80°)	6909.3	20.1			G3/7500
FVH	(80°-90°)	280.0	0.8			G3/500
BL	(0°-30°)	1993.5	5.8	B3/2500		
BM	(30°-60°)	5189.3	15.1	B4/8500		
BH	(60°-80°)	3487.1	10.1	B4/5000		G4/5000
BVH	(80°-90°)	200.4	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 Short



REPORT NUMBER: P951440  
 CATALOG NUMBER: GALN-SB5C-830-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0
2.5°	3771.0	3760.3	3769.2	3769.2	3772.8	3771.0	3783.5	3787.1	3792.4	3803.2
5°	3733.5	3731.7	3747.8	3762.1	3776.4	3788.9	3805.0	3828.2	3831.8	3844.3
7.5°	3721.0	3710.2	3735.3	3753.1	3787.1	3817.5	3860.4	3899.7	3915.8	3921.1
10°	3817.5	3799.6	3822.8	3833.6	3862.1	3892.5	3942.6	4005.1	4023.0	4044.4
12.5°	3981.9	3962.2	3996.2	4012.3	4039.1	4065.9	4099.8	4160.6	4169.5	4208.9
15°	4207.1	4183.8	4205.3	4224.9	4269.6	4294.7	4328.6	4387.6	4387.6	4418.0
17.5°	4512.7	4482.3	4498.4	4505.5	4534.1	4571.7	4628.9	4680.7	4707.5	4696.8
20°	4968.4	4930.9	4930.9	4895.2	4884.4	4914.8	4989.9	5061.4	5090.0	5034.6
22.5°	5652.9	5599.3	5568.9	5447.4	5399.1	5402.7	5477.8	5565.4	5588.6	5490.3
25°	6523.3	6439.3	6398.2	6219.5	6110.4	6015.7	6074.7	6187.3	6219.5	6097.9
27.5°	7393.7	7399.0	7359.7	7145.2	6964.7	6791.4	6761.0	6878.9	6912.9	6775.3
30°	8614.3	8487.4	8412.4	8155.0	7897.7	7654.6	7529.5	7577.7	7586.7	7422.3
32.5°	9667.0	9634.8	9474.0	9248.8	8918.1	8537.5	8328.4	8251.5	8237.2	8003.1
35°	10866.2	10848.3	10678.5	10410.5	10053.0	9524.0	9146.9	8927.1	8909.2	8580.4
37.5°	12085.1	12085.1	11918.9	11625.8	11255.8	10594.5	10020.9	9672.3	9615.2	9186.2
40°	13057.3	12998.3	13028.7	12905.4	12481.8	11779.5	10991.3	10485.5	10408.7	9894.0
42.5°	13609.6	13589.9	13772.2	13909.8	13736.4	13175.3	12060.0	11366.6	11259.4	10673.2
45°	13732.9	13711.4	14036.7	14540.7	14783.7	14553.2	13221.7	12294.2	12163.7	11488.1
47.5°	13448.7	13405.8	13883.0	14678.3	15457.5	15863.2	14479.9	13300.4	13110.9	12281.7
50°	12594.4	12553.3	13275.3	14331.6	15684.5	16753.2	15845.3	14367.3	14077.8	13132.4
52.5°	10737.5	10757.2	11888.5	13339.7	15386.0	17307.3	17021.3	15491.5	15143.0	14002.7
55°	8364.1	8407.0	9797.4	11395.2	14192.2	17223.3	17823.8	16649.6	16302.9	14821.3
57.5°	5988.9	6178.4	7481.2	9062.9	11899.2	15891.8	17998.9	17750.5	17414.5	15714.9
60°	3881.8	3915.8	5256.2	6850.4	9061.1	13525.6	17643.3	18585.1	18322.4	16626.4
62.5°	2487.8	2511.0	3327.8	4791.5	6521.5	10006.6	16445.8	18947.9	18867.5	17228.6
65°	1828.3	1810.4	2235.8	3166.9	4392.9	6171.2	14120.7	18772.8	18931.8	17605.7
67.5°	1526.3	1501.3	1710.4	2192.9	3236.6	3504.7	10448.0	17634.3	18217.0	17562.8
70°	1390.4	1369.0	1495.9	1628.1	2525.3	2346.6	5266.9	15330.6	16227.8	17074.9
72.5°	1177.8	1140.2	1313.6	1445.8	1964.1	1799.7	2176.8	11775.9	12869.7	15511.1
75°	913.3	888.2	1036.6	1272.5	1476.2	1404.7	1376.1	7150.6	8344.5	11995.7
77.5°	723.8	689.9	825.7	991.9	1327.9	1059.8	1002.6	3079.4	4262.5	7658.2
80°	545.1	514.7	627.3	784.6	1020.5	798.9	648.8	1256.4	1606.7	3880.0
82.5°	387.8	361.0	437.9	575.5	686.3	716.7	398.5	704.2	791.7	1495.9
85°	248.4	232.3	293.1	361.0	436.1	461.1	243.1	368.2	403.9	616.6
87.5°	135.8	110.8	157.3	168.0	202.0	184.1	116.2	134.0	144.8	223.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951440  
 CATALOG NUMBER: GALN-SB5C-830-U-T2U

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3796.0	0°	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0
3803.2	2.5°	3810.3	3815.7	3833.6	3838.9	3851.4	3867.5	3878.2	3889.0	3889.0	3899.7
3860.4	5°	3862.1	3874.7	3912.2	3931.8	3964.0	3996.2	4015.8	4039.1	4053.4	4060.5
3951.5	7.5°	3962.2	3981.9	4035.5	4069.5	4124.9	4169.5	4199.9	4232.1	4239.2	4258.9
4078.4	10°	4098.1	4121.3	4182.1	4246.4	4312.5	4367.9	4396.5	4419.8	4428.7	4432.3
4241.0	12.5°	4253.5	4287.5	4366.1	4444.8	4514.5	4562.7	4569.9	4564.5	4539.5	4518.1
4441.2	15°	4444.8	4475.2	4562.7	4648.5	4716.4	4725.4	4680.7	4652.1	4621.7	4616.3
4664.6	17.5°	4673.5	4689.6	4770.0	4854.0	4859.4	4829.0	4762.9	4736.1	4707.5	4687.8
4955.9	20°	4939.8	4934.5	4991.7	5027.4	4989.9	4896.9	4796.9	4752.2	4723.6	4700.3
5313.4	22.5°	5258.0	5216.8	5209.7	5200.8	5100.7	4905.9	4770.0	4712.9	4668.2	4636.0
5812.0	25°	5720.8	5563.6	5454.5	5393.8	5168.6	4857.6	4684.3	4557.4	4473.4	4418.0
6421.4	27.5°	6299.9	6035.4	5760.2	5611.8	5168.6	4759.3	4476.9	4271.4	4133.8	4076.6
7011.2	30°	6852.1	6575.1	6169.4	5874.5	5156.1	4598.5	4142.7	3856.8	3695.9	3638.7
7515.2	32.5°	7324.0	7021.9	6603.7	6162.3	5125.7	4337.5	3728.1	3411.8	3256.3	3188.4
8013.8	35°	7761.8	7440.1	7039.8	6478.6	5045.3	3955.1	3272.4	3031.1	2857.7	2748.7
8521.4	37.5°	8210.4	7828.0	7452.6	6764.6	4900.5	3508.3	2922.1	2716.5	2512.8	2366.3
9061.1	40°	8698.3	8240.8	7894.1	6934.3	4662.8	3082.9	2650.4	2462.8	2246.5	2091.0
9683.1	42.5°	9268.4	8735.9	8385.6	7021.9	4337.5	2780.9	2473.5	2289.4	2085.7	1958.8
10349.7	45°	9863.6	9280.9	8834.1	7020.1	3974.7	2639.7	2416.3	2234.0	2008.8	1876.6
11034.2	47.5°	10487.3	9851.1	9222.0	6905.8	3660.2	2659.4	2384.1	2114.3	1865.8	1737.2
11725.8	50°	11112.8	10474.8	9597.3	6691.3	3526.2	2616.5	2264.4	1946.3	1653.2	1537.0
12374.6	52.5°	11733.0	11137.9	9920.8	6385.7	3390.3	2457.4	2110.7	1728.2	1565.6	1485.2
13044.8	55°	12356.7	11793.8	10272.8	5940.7	3050.8	2271.5	1853.3	1646.0	1495.9	1422.6
13700.7	57.5°	12982.2	12551.5	10607.1	5495.7	2623.6	2042.8	1712.1	1545.9	1426.2	1363.6
14249.4	60°	13632.8	13418.3	10952.0	5086.4	2201.8	1749.7	1608.5	1465.5	1344.0	1274.3
14776.6	62.5°	14303.0	14372.7	11221.9	4559.2	1814.0	1571.0	1515.5	1369.0	1251.0	1184.9
15212.7	65°	14978.6	15293.1	11398.8	3828.2	1470.9	1401.2	1415.5	1263.6	1143.8	1086.6
15532.6	67.5°	15487.9	15956.2	11348.7	2897.1	1206.4	1240.3	1290.4	1152.7	1040.2	995.5
15480.8	70°	15545.1	15877.5	10855.5	1983.8	1009.8	1083.0	1151.0	1043.7	927.6	895.4
14751.6	72.5°	14783.7	14805.2	9481.1	1295.7	854.3	950.8	1004.4	932.9	820.3	788.2
12905.4	75°	12787.4	12244.1	6961.2	854.3	714.9	816.8	866.8	816.8	707.7	714.9
9656.3	77.5°	9688.4	8671.5	4226.7	607.6	596.9	686.3	754.2	718.5	625.5	702.4
4855.8	80°	4991.7	4691.4	1885.5	453.9	471.8	548.7	620.2	573.7	495.1	471.8
1084.8	82.5°	1143.8	1329.7	743.5	325.3	341.4	395.0	473.6	430.7	355.7	300.3
452.2	85°	400.3	437.9	328.8	203.7	200.2	246.6	321.7	287.7	241.3	193.0
191.2	87.5°	126.9	166.2	123.3	82.2	85.8	110.8	148.3	135.8	112.6	73.3
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>
3796.0
3899.7
4064.1
4251.8
4423.3
4518.1
4616.3
4689.6
4702.1
4646.7
4439.4
4105.2
3672.7
3222.3
2784.5
2405.6
2121.4
1983.8
1898.0
1755.0
1544.1
1485.2
1415.5
1352.9
1268.9
<i>1183.1</i>
1084.8
997.3
897.2
786.4
689.9
618.4
430.7
296.7
203.7
76.8
0.0

F REPORT)