

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: P944752

Luminaire Tested: **GALN-SB9D-835-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-835-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

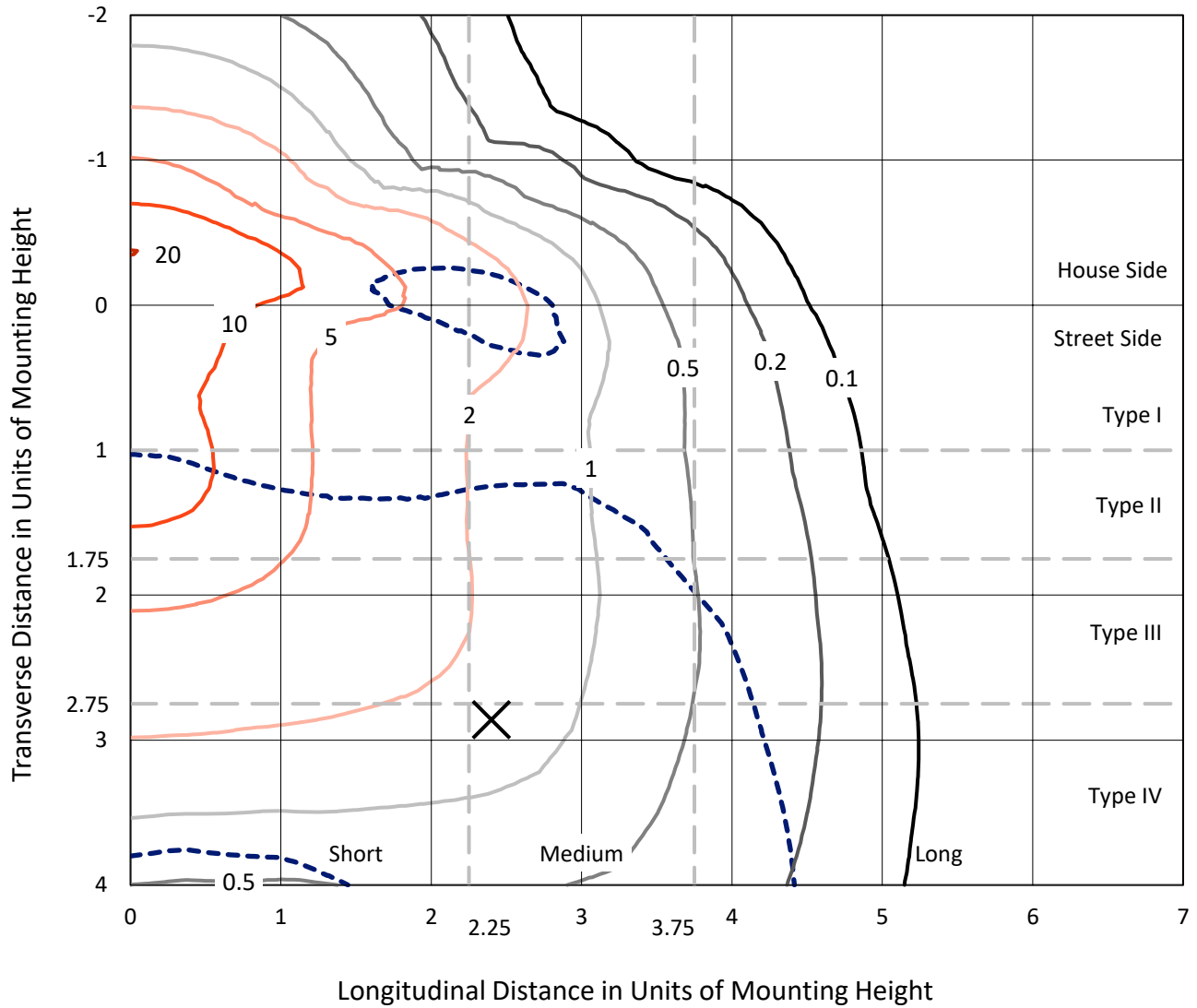
Lumens per Lamp: N/A  
Luminaire Lumens: 85220 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P944752  
 CATALOG NUMBER: GALN-SB9D-835-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

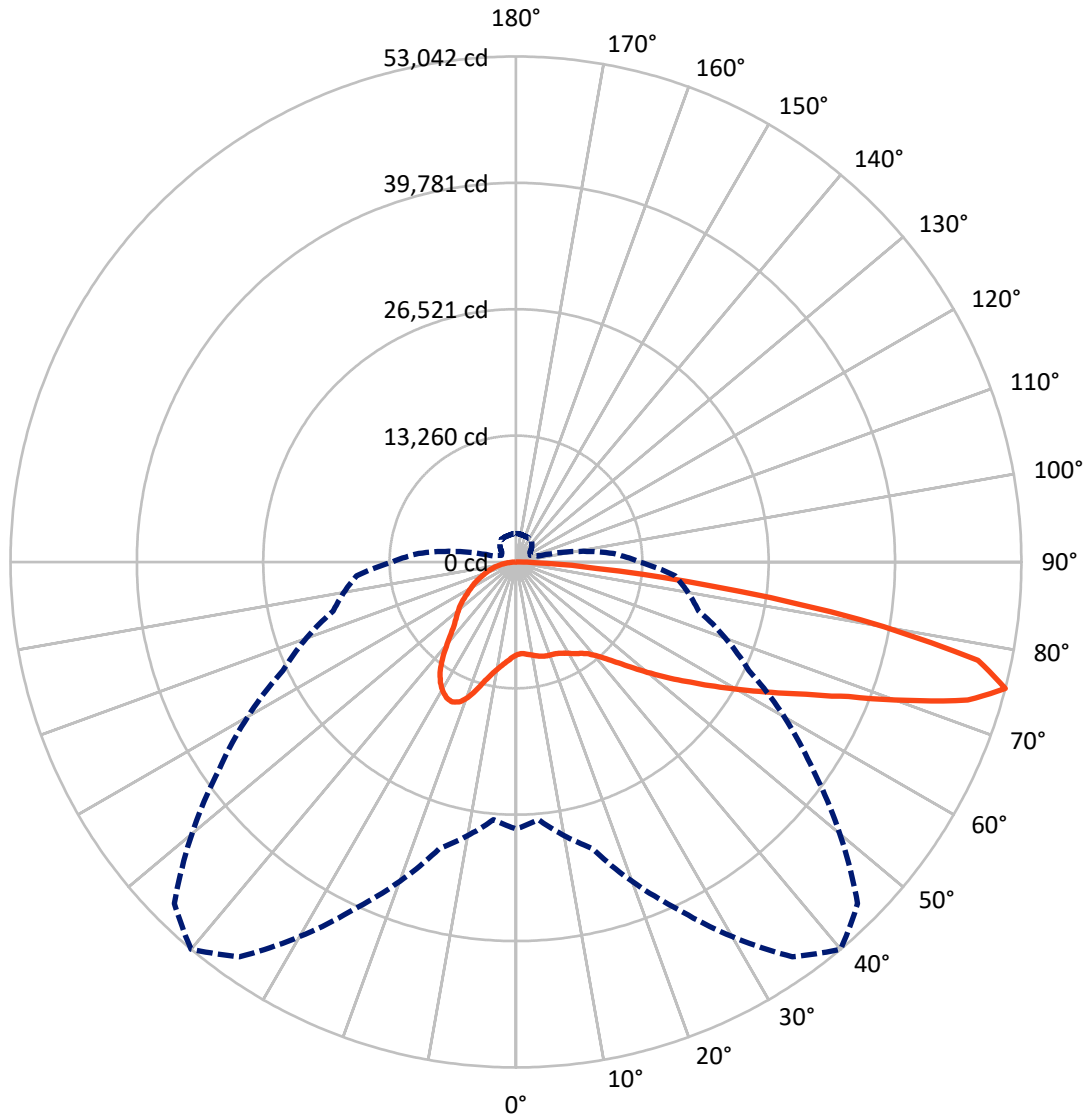
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P944752  
CATALOG NUMBER: GALN-SB9D-835-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P944752

CATALOG NUMBER: GALN-SB9D-835-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26404.0	0.0	26404.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	58816.0	0.0	58816.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	85220.0	0.0	85220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	972.7	1.1
10°-20°	3265.9	3.8
20°-30°	5963.3	7.0
30°-40°	8457.6	9.9
40°-50°	11420.3	13.4
50°-60°	15363.4	18.0
60°-70°	19499.7	22.9
70°-80°	17697.2	20.8
80°-90°	2579.7	3.0
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°	85220.0	100.0
0°-180°	85220.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P944752

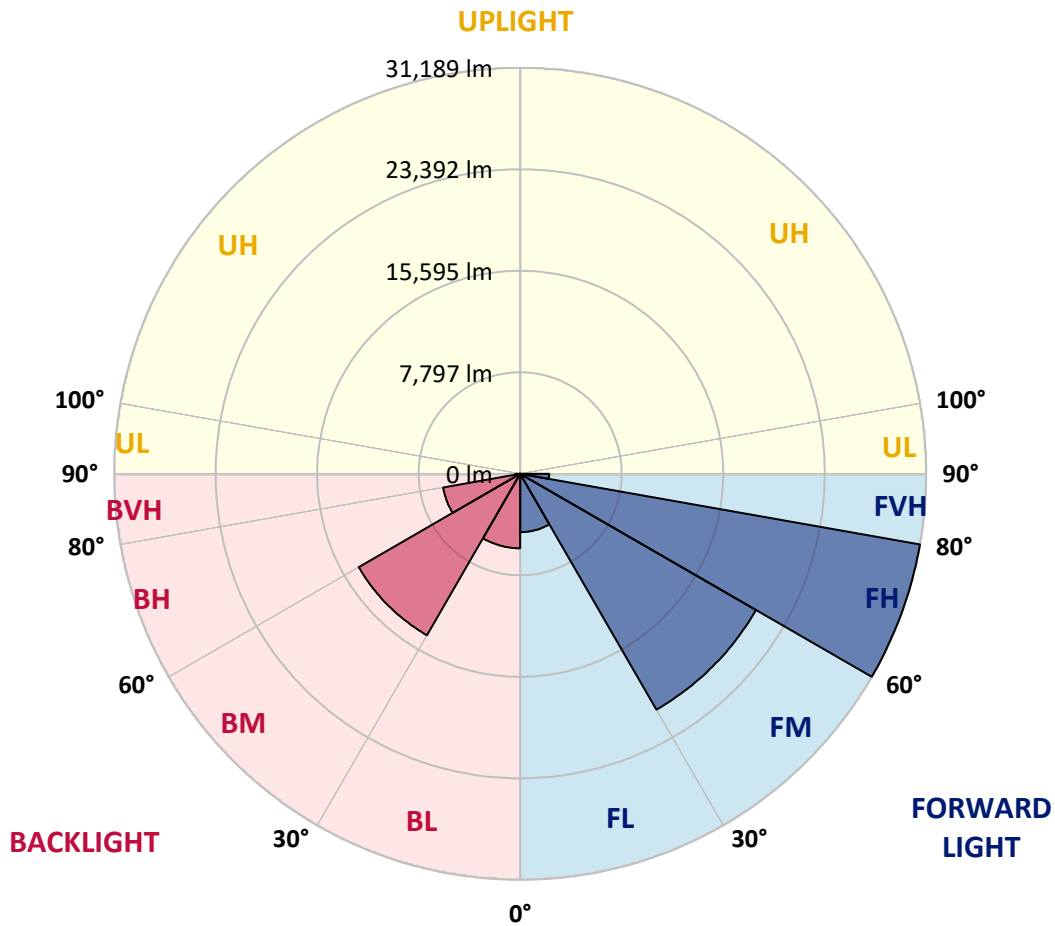
CATALOG NUMBER: GALN-SB9D-835-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4482.7	5.3			
FM (30°-60°)	20919.6	24.5			
FH (60°-80°)	31189.2	36.6			G5
FVH (80°-90°)	2224.5	2.6			G5
BL (0°-30°)	5719.3	6.7	B5		
BM (30°-60°)	14321.8	16.8	B5		
BH (60°-80°)	6007.7	7.0	B5		G5
BVH (80°-90°)	355.2	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type IV Medium



REPORT NUMBER: P944752

CATALOG NUMBER: GALN-SB9D-835-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0
2.5°	9595.9	9650.1	9636.5	9618.5	9618.5	9623.0	9618.5	9650.1	9681.7	9713.4
5°	9695.3	9749.5	9722.4	9699.8	9681.7	9677.2	9663.7	9659.1	9677.2	9717.9
7.5°	9889.7	9943.9	9903.2	9862.5	9826.4	9808.3	9790.2	9763.1	9749.5	9772.1
10°	10106.6	10160.9	10111.1	10038.8	9980.1	9957.5	9939.4	9912.3	9894.2	9907.7
12.5°	10323.6	10377.8	10310.0	10210.6	10133.7	10120.2	10097.6	10088.5	10084.0	10079.5
15°	10527.0	10572.2	10486.3	10368.8	10287.4	10264.8	10242.2	10255.8	10278.4	10305.5
17.5°	10685.2	10730.4	10603.8	10450.1	10373.3	10364.3	10350.7	10395.9	10459.2	10527.0
20°	10829.8	10875.0	10712.3	10504.4	10414.0	10414.0	10418.5	10513.4	10603.8	10703.3
22.5°	11033.2	11069.4	10870.5	10585.7	10454.7	10463.7	10499.9	10594.8	10707.8	10843.4
25°	11336.0	11363.2	11119.1	10739.4	10590.3	10617.4	10649.0	10694.2	10802.7	10960.9
27.5°	11824.2	11846.8	11525.9	11010.6	10784.6	10829.8	10875.0	10843.4	10893.1	11028.7
30°	12511.2	12524.8	12118.0	11435.5	11114.6	11137.2	11146.2	11015.1	10920.2	11028.7
32.5°	13324.8	13320.3	12836.7	11950.8	11489.7	11467.1	11390.3	11132.6	10911.2	11006.1
35°	14585.9	14536.2	13912.4	12674.0	11914.6	11774.5	11593.7	11263.7	10956.4	10983.5
37.5°	16674.1	16520.4	15657.1	13858.2	12547.4	12190.3	11923.6	11476.2	11055.8	10974.4
40°	19029.0	18834.6	17885.5	15480.8	13496.6	12922.5	12493.2	11779.0	11218.5	11015.1
42.5°	21822.3	21546.6	20525.1	17392.8	14698.9	13867.2	13220.9	12163.2	11458.1	11146.2
45°	25253.0	24886.9	23440.5	19548.8	16213.1	15105.7	14242.4	12746.3	11824.2	11399.3
47.5°	28719.8	28810.2	26753.6	22016.7	18030.1	16633.4	15521.5	13623.1	12357.6	11806.1
50°	32403.5	32466.8	30048.7	24751.3	20091.2	18360.1	16958.9	14604.0	13098.8	12384.7
52.5°	35278.2	35287.3	33040.9	27612.4	22238.2	20258.4	18509.2	15724.9	13957.6	13153.1
55°	37077.2	37054.6	35138.1	30319.9	24706.1	22251.7	20226.8	16999.5	15006.2	14057.1
57.5°	38383.4	38315.6	36584.5	32647.6	27336.7	24606.6	22170.4	18445.9	16244.7	15132.8
60°	38880.6	38840.0	37565.3	34659.0	30102.9	27210.1	24412.3	20064.1	17650.4	16402.9
62.5°	39070.5	39147.3	38528.1	36607.1	33063.5	30093.9	26875.6	21998.6	19232.4	17840.3
65°	39739.4	39879.6	39753.0	39156.4	36408.2	33470.3	30143.6	24299.3	20959.0	19381.6
67.5°	41063.8	41203.9	41258.1	42207.3	40494.3	37678.3	34220.6	27164.9	22979.4	20981.6
70°	41032.1	40991.5	41949.7	44634.5	45610.9	43504.6	39716.8	30690.5	25388.6	22310.5
72.5°	37348.4	37022.9	39287.4	44607.4	49868.7	49588.4	46429.0	35237.6	27467.8	22473.2
75°	28019.2	27151.4	31151.5	40200.5	50578.3	53041.7	50695.8	38058.0	26975.1	19856.2
77.5°	11982.4	11110.0	15824.4	29759.4	45267.3	49583.9	46781.5	33203.6	21533.1	13130.5
80°	3136.8	3132.3	4782.1	13492.1	30785.4	36616.1	32123.3	21442.7	12303.3	4691.7
82.5°	1297.2	1265.6	1758.3	5247.7	15042.4	20547.7	16769.0	9564.2	4443.1	1270.1
85°	483.6	479.1	854.3	1812.5	5306.4	8474.9	6133.6	2445.3	1107.4	619.2
87.5°	135.6	131.1	185.3	628.3	1292.7	1961.7	1048.6	402.3	311.9	244.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944752  
 CATALOG NUMBER: GALN-SB9D-835-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9745.0	0°	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0	9745.0
9763.1	2.5°	9776.7	9799.3	9839.9	9871.6	9912.3	9957.5	10020.7	10061.4	10102.1	10129.2
9785.7	5°	9817.3	9867.1	9971.0	10075.0	10197.0	10310.0	10441.1	10536.0	10612.9	10635.5
9867.1	7.5°	9907.7	9989.1	10165.4	10341.7	10536.0	10721.3	10911.2	11073.9	11205.0	11254.7
10011.7	10°	10065.9	10174.4	10423.0	10671.6	10929.2	11214.0	11458.1	11693.1	11878.4	11955.3
10183.5	12.5°	10264.8	10400.4	10725.9	11069.4	11426.4	11819.7	12136.1	12425.4	12655.9	12759.8
10423.0	15°	10522.5	10698.7	11114.6	11575.6	12099.9	12646.8	13049.1	13370.0	13627.7	13754.2
10671.6	17.5°	10802.7	11037.7	11562.0	12258.1	13008.4	13727.1	14197.2	14432.2	14698.9	14820.9
10902.1	20°	11073.9	11363.2	12113.5	13125.9	14124.9	14888.7	15268.4	15331.7	15349.8	15363.3
11119.1	22.5°	11354.1	11742.8	12805.0	14219.8	15291.0	15819.8	15874.1	15602.9	15223.2	15046.9
11331.5	25°	11661.5	12176.8	13709.0	15426.6	16294.4	16357.7	15941.9	15282.0	14563.3	14233.3
11503.3	27.5°	11959.8	12678.5	14793.8	16579.2	17017.6	16461.7	15566.7	14631.1	13763.3	13415.2
11625.3	30°	12258.1	13252.5	15991.6	17587.1	17347.6	16204.0	14974.6	13930.5	13058.1	12692.0
11733.8	32.5°	12561.0	13921.5	17370.2	18314.9	17288.8	15657.1	14237.9	13144.0	12375.6	11991.4
11828.7	35°	12904.5	14744.1	18676.4	18712.6	16895.6	14852.6	13266.1	12203.9	11534.9	11227.6
11941.7	37.5°	13351.9	15788.2	19829.0	18812.0	16208.6	13672.9	12059.2	11092.0	10540.5	10400.4
12109.0	40°	13907.9	17044.7	20710.4	18653.8	15191.6	12240.0	10739.4	9966.5	9654.6	9686.3
12335.0	42.5°	14631.1	18450.5	21329.7	18247.1	13776.8	10762.0	9582.3	9238.8	9387.9	9514.5
12674.0	45°	15571.2	19910.4	21713.9	17555.5	12176.8	9510.0	8899.8	8981.1	9094.1	9107.7
13220.9	47.5°	16773.5	21388.4	21967.0	16511.4	10545.1	8628.6	8465.9	8484.0	8461.4	8366.4
14039.0	50°	18274.2	22825.8	22193.0	15128.3	9157.4	8077.2	7860.2	7796.9	7485.0	7177.7
15128.3	52.5°	19982.7	24145.6	22287.9	13410.7	8077.2	7616.1	7263.6	6865.8	6282.7	6187.8
16497.8	55°	21881.1	25366.0	22043.8	11299.9	7168.6	7024.0	6490.7	6011.5	5948.3	5866.9
18301.3	57.5°	24150.1	26681.3	21546.6	8945.0	6237.5	6332.5	5812.7	5866.9	5753.9	5627.3
20620.0	60°	26631.6	28041.8	20674.3	6798.0	5274.8	5469.1	5636.4	5631.9	5600.2	5496.3
23065.3	62.5°	28864.4	28936.7	18956.7	5207.0	4429.6	4800.2	5256.7	5252.2	5225.1	5166.3
25619.1	65°	30193.3	28801.1	16091.0	4099.6	3733.5	4248.8	4741.4	4777.6	4782.1	4777.6
27540.1	67.5°	29958.3	27214.6	12158.7	3263.4	3159.4	3688.3	4230.7	4280.4	4316.6	4325.6
27784.2	70°	27300.5	23729.8	7928.0	2603.5	2648.7	3195.6	3747.0	3796.8	3828.4	3864.6
24109.4	72.5°	21279.9	17447.0	4538.0	2106.3	2201.2	2770.7	3267.9	3326.7	3344.8	3412.6
16778.1	75°	12967.7	10260.3	2449.8	1658.8	1808.0	2368.5	2793.3	2861.1	2892.8	2974.1
8239.9	77.5°	6165.2	4443.1	1396.7	1292.7	1455.4	1934.5	2359.4	2436.3	2350.4	2395.6
2273.5	80°	2083.7	1649.8	881.4	985.3	1111.9	1509.7	1889.3	1966.2	1785.4	1776.3
754.8	82.5°	727.7	669.0	560.5	655.4	718.7	1080.3	1428.3	1527.7	1328.9	1324.3
339.0	85°	284.8	271.2	311.9	357.1	429.4	664.4	940.2	989.9	818.1	659.9
99.4	87.5°	58.8	63.3	76.8	81.4	131.1	230.5	339.0	415.8	330.0	280.2
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

180°  
9745.0  
10111.1  
10644.5  
11259.2  
11959.8  
12759.8  
13745.2  
14816.4  
15399.5  
15096.6  
14283.1  
13455.9  
12732.7  
12041.2  
11295.4  
10499.9  
9794.7  
9632.0  
9198.1  
8438.8  
7218.4  
6219.5  
5880.5  
5604.7  
5460.1  
5143.7  
4777.6  
4334.6  
3882.6  
3439.7  
2983.2  
2359.4  
1758.3  
1261.1  
650.9  
257.6  
0.0

F REPORT)