

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: P943332

Luminaire Tested: **GALN-SB7D-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943332
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-SB7D-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 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: 71736 lumens
Efficiency: N/A
Efficacy: 139.9 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

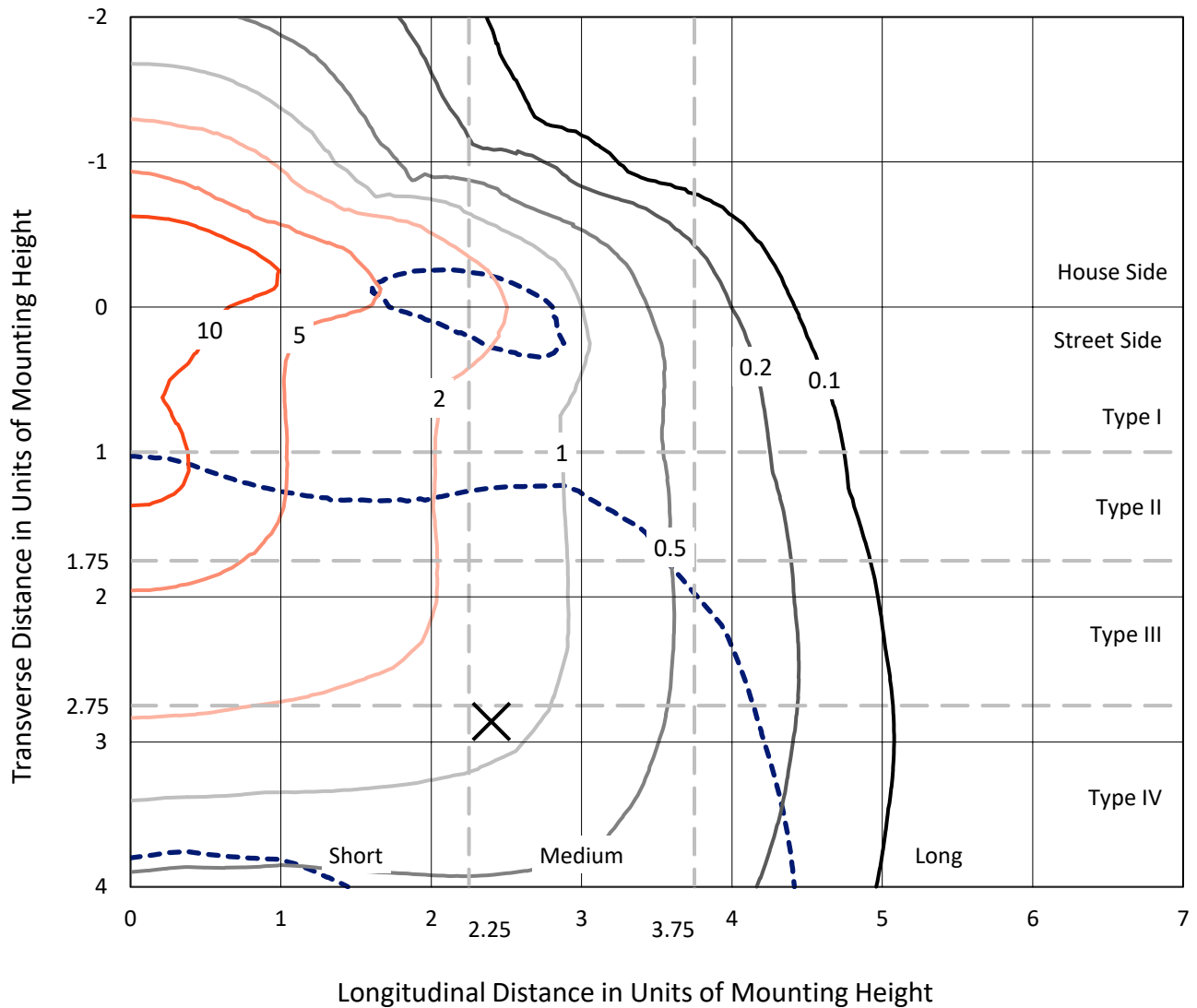
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943332
 CATALOG NUMBER: GALN-SB7D-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

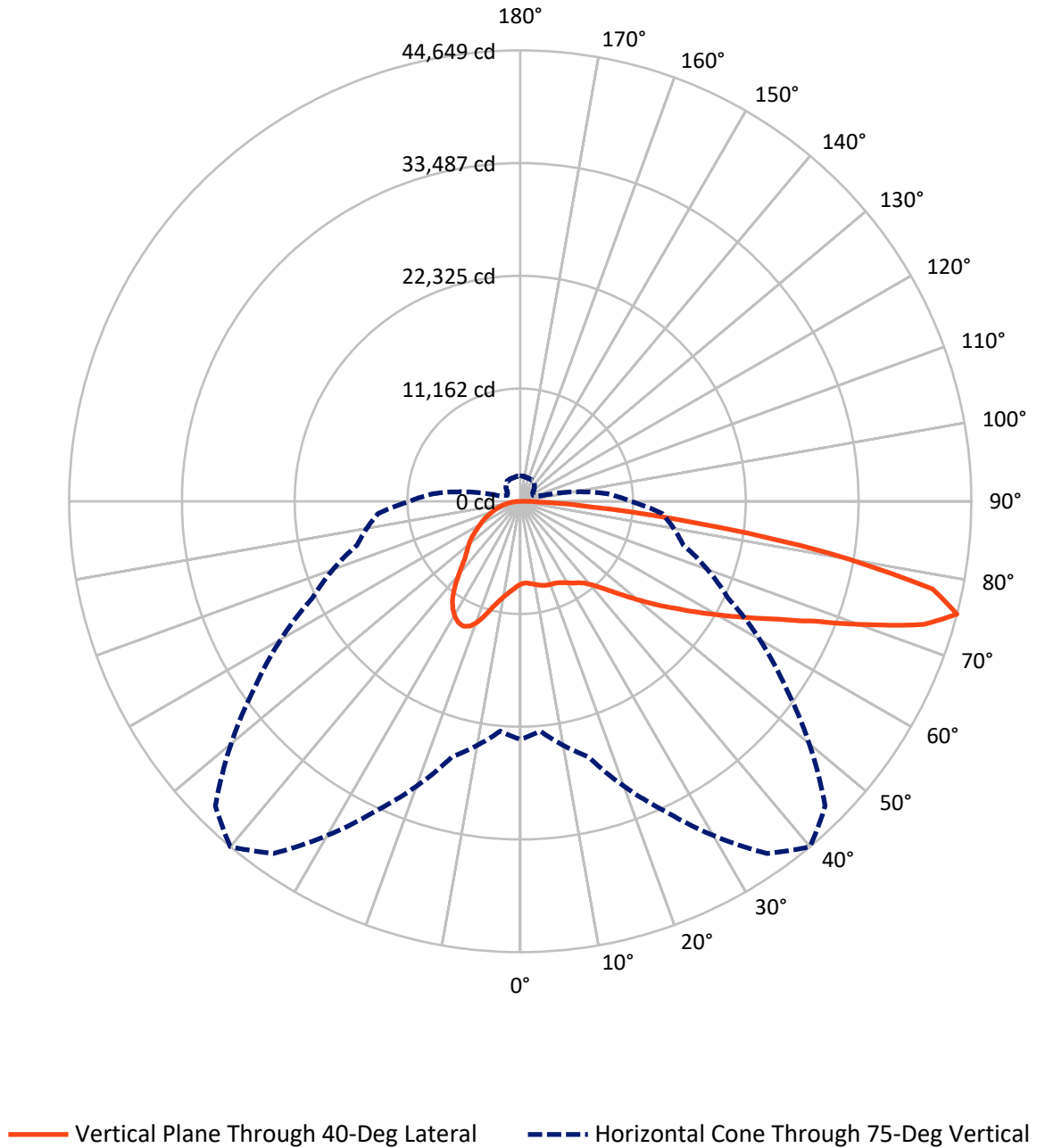
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type IV - Medium - N/A

REPORT NUMBER: P943332
CATALOG NUMBER: GALN-SB7D-735-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P943332
 CATALOG NUMBER: GALN-SB7D-735-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22226.2	0.0	22226.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	49509.8	0.0	49509.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	71736.0	0.0	71736.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.8	1.1
10°-20°	2749.2	3.8
20°-30°	5019.8	7.0
30°-40°	7119.4	9.9
40°-50°	9613.4	13.4
50°-60°	12932.5	18.0
60°-70°	16414.4	22.9
70°-80°	14897.0	20.8
80°-90°	2171.5	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°	71736.0	100.0
0°-180°	71736.0	100.0



REPORT NUMBER: P943332

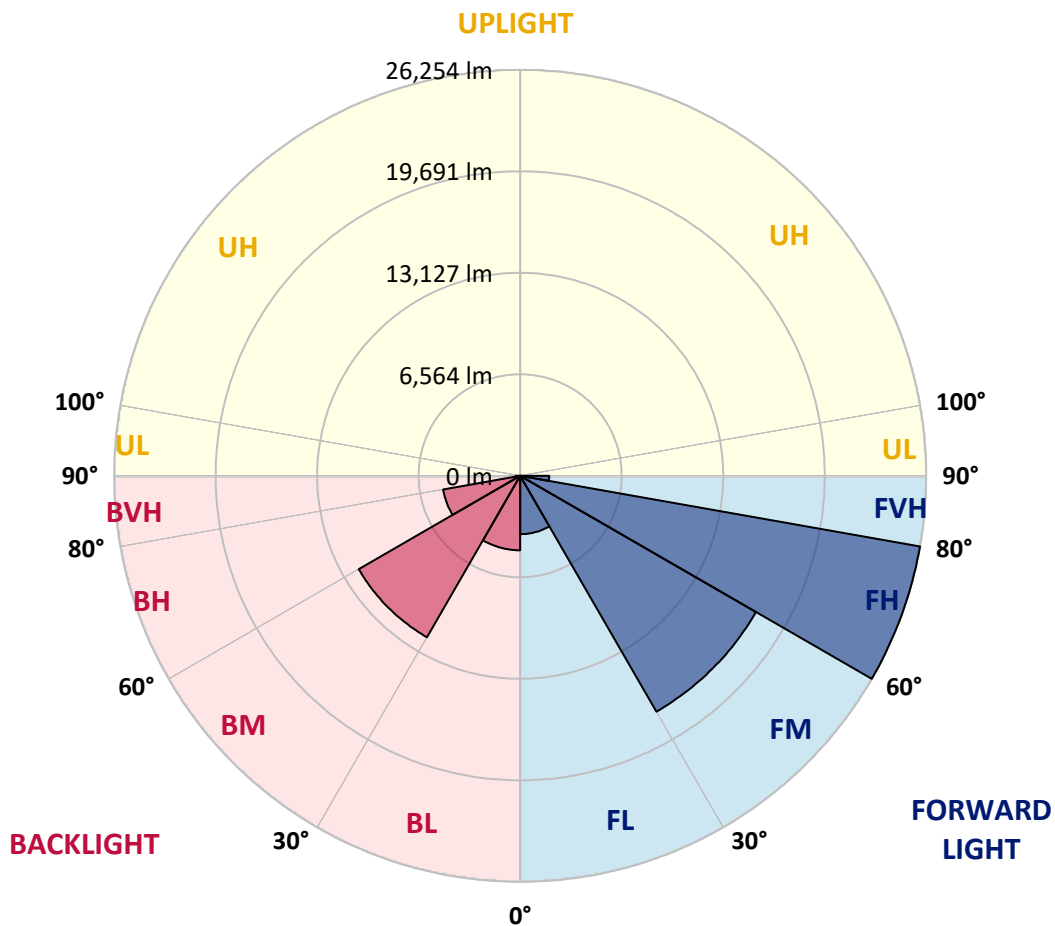
CATALOG NUMBER: GALN-SB7D-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3773.4	5.3			
FM (30°-60°)	17609.6	24.5			
FH (60°-80°)	26254.3	36.6			G5
FVH (80°-90°)	1872.6	2.6			G5
BL (0°-30°)	4814.4	6.7	B4/5000		
BM (30°-60°)	12055.7	16.8	B5		
BH (60°-80°)	5057.1	7.0	B5		G5
BVH (80°-90°)	299.0	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: P943332
 CATALOG NUMBER: GALN-SB7D-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1
2.5°	8077.5	8123.2	8111.8	8096.6	8096.6	8100.4	8096.6	8123.2	8149.8	8176.5
5°	8161.3	8206.9	8184.1	8165.1	8149.8	8146.0	8134.6	8130.8	8146.0	8180.3
7.5°	8324.9	8370.5	8336.3	8302.0	8271.6	8256.4	8241.2	8218.3	8206.9	8225.9
10°	8507.5	8553.1	8511.3	8450.4	8401.0	8381.9	8366.7	8343.9	8328.7	8340.1
12.5°	8690.1	8735.8	8678.7	8595.0	8530.3	8518.9	8499.9	8492.3	8488.5	8484.7
15°	8861.3	8899.4	8827.1	8728.2	8659.7	8640.7	8621.6	8633.0	8652.1	8674.9
17.5°	8994.5	9032.5	8926.0	8796.7	8732.0	8724.4	8712.9	8751.0	8804.3	8861.3
20°	9116.3	9154.3	9017.3	8842.3	8766.2	8766.2	8770.0	8849.9	8926.0	9009.7
22.5°	9287.5	9317.9	9150.5	8910.8	8800.5	8808.1	8838.5	8918.4	9013.5	9127.7
25°	9542.4	9565.2	9359.8	9040.2	8914.6	8937.4	8964.1	9002.1	9093.4	9226.6
27.5°	9953.3	9972.3	9702.2	9268.4	9078.2	9116.3	9154.3	9127.7	9169.5	9283.7
30°	10531.6	10543.0	10200.6	9626.1	9356.0	9375.0	9382.6	9272.3	9192.4	9283.7
32.5°	11216.5	11212.7	10805.6	10059.8	9671.8	9652.7	9588.0	9371.2	9184.7	9264.6
35°	12278.0	12236.2	11711.1	10668.6	10029.4	9911.5	9759.3	9481.5	9222.8	9245.6
37.5°	14035.8	13906.5	13179.8	11665.5	10562.1	10261.5	10037.0	9660.3	9306.5	9238.0
40°	16018.1	15854.5	15055.5	13031.4	11361.1	10877.9	10516.4	9915.3	9443.5	9272.3
42.5°	18369.5	18137.4	17277.5	14640.8	12373.1	11673.1	11129.0	10238.7	9645.1	9382.6
45°	21257.3	20949.1	19731.6	16455.7	13647.7	12715.6	11988.9	10729.5	9953.3	9595.7
47.5°	24175.6	24251.7	22520.5	18533.1	15177.3	14001.6	13065.6	11467.6	10402.3	9938.1
50°	27276.5	27329.7	25294.2	20835.0	16912.3	15455.0	14275.5	12293.2	11026.3	10425.1
52.5°	29696.3	29703.9	27812.9	23243.4	18719.5	17053.0	15580.6	13236.8	11749.2	11071.9
55°	31210.6	31191.6	29578.4	25522.5	20796.9	18730.9	17026.4	14309.8	12631.9	11832.9
57.5°	32310.2	32253.1	30795.9	27481.9	23011.3	20713.2	18662.4	15527.3	13674.4	12738.4
60°	32728.7	32694.5	31621.5	29175.1	25339.8	22904.8	20549.6	16889.4	14857.7	13807.5
62.5°	32888.5	32953.2	32432.0	30814.9	27832.0	25332.2	22623.2	18517.9	16189.3	15017.5
65°	33451.6	33569.6	33463.0	32960.8	30647.5	28174.4	25374.1	20454.5	17642.8	16314.9
67.5°	34566.4	34684.4	34730.0	35529.0	34087.0	31716.7	28806.0	22866.7	19343.5	17661.8
70°	34539.8	34505.6	35312.2	37572.2	38394.0	36621.0	33432.6	25834.5	21371.5	18780.4
72.5°	31438.9	31165.0	33071.2	37549.4	41978.1	41742.2	39082.7	29662.1	23121.7	18917.4
75°	23585.8	22855.3	26222.5	33839.7	42575.5	44649.1	42674.4	32036.3	22706.9	16714.4
77.5°	10086.5	9352.2	13320.5	25050.7	38104.9	41738.4	39379.5	27949.9	18126.0	11052.9
80°	2640.5	2636.7	4025.5	11357.3	25914.4	30822.5	27040.6	18049.9	10356.6	3949.4
82.5°	1092.0	1065.3	1480.1	4417.4	12662.3	17296.5	14115.7	8050.9	3740.1	1069.1
85°	407.1	403.3	719.1	1525.7	4466.8	7134.0	5163.1	2058.4	932.2	521.3
87.5°	114.1	110.3	156.0	528.9	1088.2	1651.3	882.7	338.6	262.5	205.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943332
 CATALOG NUMBER: GALN-SB7D-735-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8203.1	0°	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1
8218.3	2.5°	8229.7	8248.8	8283.0	8309.6	8343.9	8381.9	8435.2	8469.4	8503.7	8526.5
8237.4	5°	8264.0	8305.8	8393.3	8480.9	8583.6	8678.7	8789.0	8868.9	8933.6	8952.6
8305.8	7.5°	8340.1	8408.6	8557.0	8705.3	8868.9	9024.9	9184.7	9321.7	9432.1	9473.9
8427.6	10°	8473.2	8564.6	8773.8	8983.1	9200.0	9439.7	9645.1	9843.0	9999.0	10063.6
8572.2	12.5°	8640.7	8754.8	9028.7	9317.9	9618.5	9949.5	10215.8	10459.3	10653.4	10740.9
8773.8	15°	8857.5	9005.9	9356.0	9744.0	10185.4	10645.8	10984.4	11254.5	11471.4	11577.9
8983.1	17.5°	9093.4	9291.3	9732.6	10318.6	10950.2	11555.1	11950.8	12148.7	12373.1	12475.9
9177.1	20°	9321.7	9565.2	10196.8	11049.1	11889.9	12532.9	12852.5	12905.8	12921.0	12932.4
9359.8	22.5°	9557.6	9884.8	10778.9	11969.8	12871.6	13316.7	13362.4	13134.1	12814.5	12666.1
9538.6	25°	9816.3	10250.1	11539.9	12985.7	13716.2	13769.5	13419.5	12864.0	12259.0	11981.3
9683.2	27.5°	10067.4	10672.4	12453.0	13955.9	14325.0	13857.0	13103.7	12316.1	11585.6	11292.6
9785.9	30°	10318.6	11155.6	13461.3	14804.4	14602.7	13640.1	12605.2	11726.3	10992.0	10683.8
9877.2	32.5°	10573.5	11718.7	14621.8	15417.0	14553.3	13179.8	11985.1	11064.3	10417.5	10094.1
9957.1	35°	10862.6	12411.2	15721.4	15751.8	14222.3	12502.5	11167.0	10272.9	9709.8	9451.1
10052.2	37.5°	11239.3	13290.1	16691.6	15835.5	13643.9	11509.5	10151.2	9336.9	8872.7	8754.8
10193.0	40°	11707.3	14347.8	17433.5	15702.3	12787.9	10303.3	9040.2	8389.5	8127.0	8153.6
10383.2	42.5°	12316.1	15531.1	17954.8	15359.9	11597.0	9059.2	8066.1	7777.0	7902.5	8009.1
10668.6	45°	13107.5	16760.1	18278.2	14777.8	10250.1	8005.3	7491.6	7560.1	7655.2	7666.6
11129.0	47.5°	14119.5	18004.2	18491.2	13898.9	8876.6	7263.3	7126.4	7141.6	7122.5	7042.6
11817.6	50°	15382.7	19214.1	18681.5	12734.6	7708.5	6799.1	6616.5	6563.2	6300.7	6042.0
12734.6	52.5°	16820.9	20325.1	18761.4	11288.8	6799.1	6411.1	6114.3	5779.5	5288.6	5208.7
13887.4	55°	18418.9	21352.4	18555.9	9512.0	6034.4	5912.6	5463.7	5060.4	5007.1	4938.6
15405.6	57.5°	20328.9	22459.6	18137.4	7529.7	5250.6	5330.5	4892.9	4938.6	4843.5	4737.0
17357.4	60°	22417.8	23604.9	17403.1	5722.4	4440.2	4603.8	4744.6	4740.8	4714.1	4626.6
19415.8	62.5°	24297.3	24358.2	15957.3	4383.1	3728.7	4040.7	4425.0	4421.2	4398.3	4348.9
21565.5	65°	25415.9	24244.1	13545.0	3450.9	3142.7	3576.5	3991.2	4021.7	4025.5	4021.7
23182.5	67.5°	25218.1	22908.6	10234.9	2747.1	2659.5	3104.7	3561.3	3603.1	3633.6	3641.2
23388.0	70°	22980.9	19975.1	6673.6	2191.6	2229.6	2690.0	3154.2	3196.0	3222.6	3253.1
20294.7	72.5°	17912.9	14686.5	3820.0	1773.0	1852.9	2332.3	2750.9	2800.3	2815.5	2872.6
14123.3	75°	10915.9	8636.9	2062.2	1396.4	1521.9	1993.7	2351.4	2408.4	2435.1	2503.5
6936.1	77.5°	5189.7	3740.1	1175.7	1088.2	1225.1	1628.4	1986.1	2050.8	1978.5	2016.5
1913.8	80°	1754.0	1388.7	741.9	829.4	936.0	1270.8	1590.4	1655.1	1502.9	1495.3
635.4	82.5°	612.6	563.1	471.8	551.7	605.0	909.3	1202.3	1286.0	1118.6	1114.8
285.4	85°	239.7	228.3	262.5	300.6	361.5	559.3	791.4	833.2	688.7	555.5
83.7	87.5°	49.5	53.3	64.7	68.5	110.3	194.0	285.4	350.0	277.7	235.9
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

180°
8203.1
8511.3
8960.3
9477.7
10067.4
10740.9
11570.3
12472.1
12962.9
12708.0
12023.1
11326.8
10718.1
10135.9
9508.1
8838.5
8245.0
8108.0
7742.7
7103.5
6076.2
5235.4
4950.0
4717.9
4596.2
4329.8
4021.7
3648.8
3268.3
2895.4
2511.2
1986.1
1480.1
1061.5
547.9
216.9
0.0

F REPORT)