

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: EPHESUS

Report Number: P574854

Luminaire Tested: **EPH-VN-08-735-U-5NQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574854
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

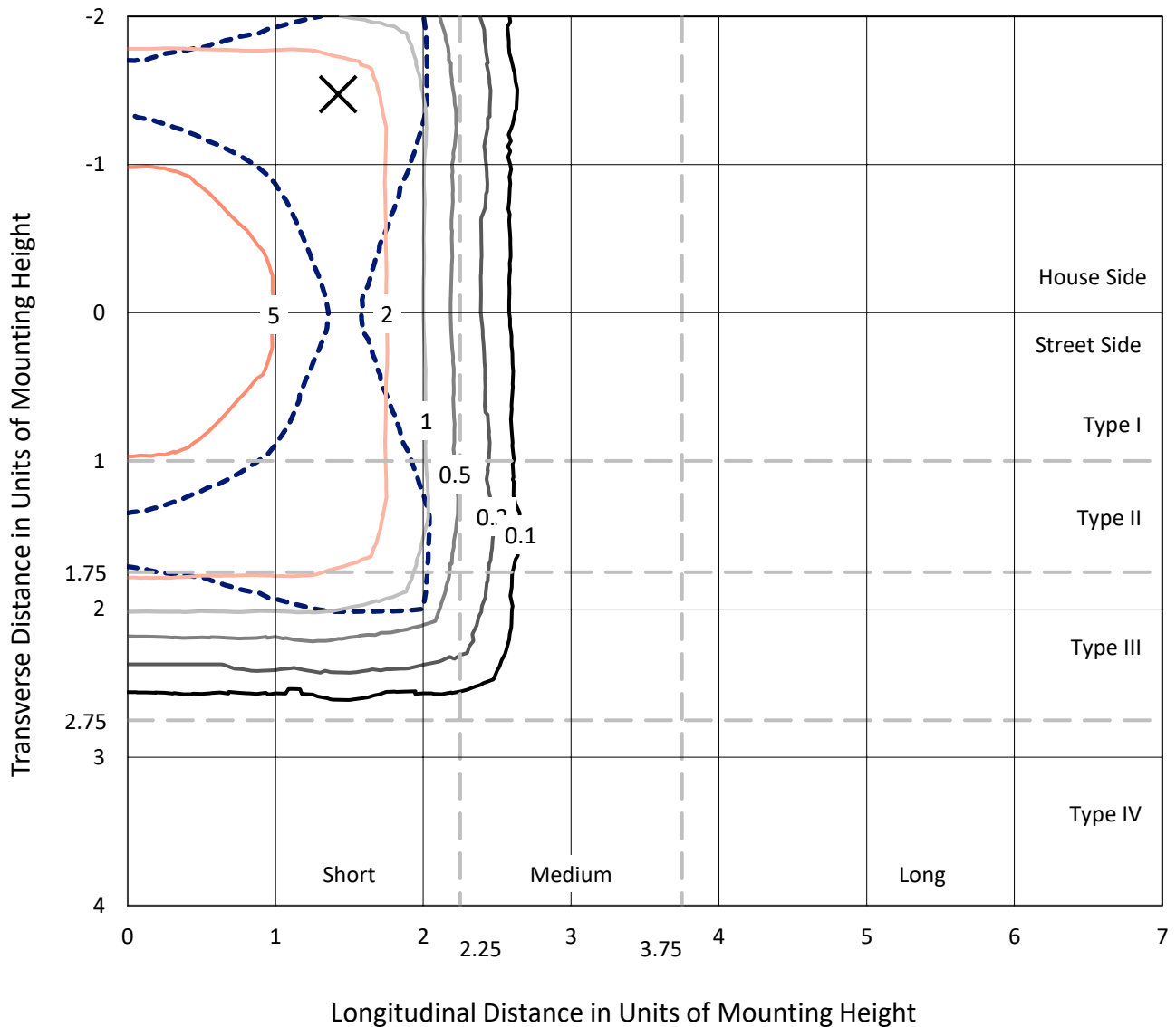
Lumens per Lamp: N/A
Luminaire Lumens: 54839.5 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 488.3
Input Voltage (V): 120
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: P574854
 CATALOG NUMBER: EPH-VN-08-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

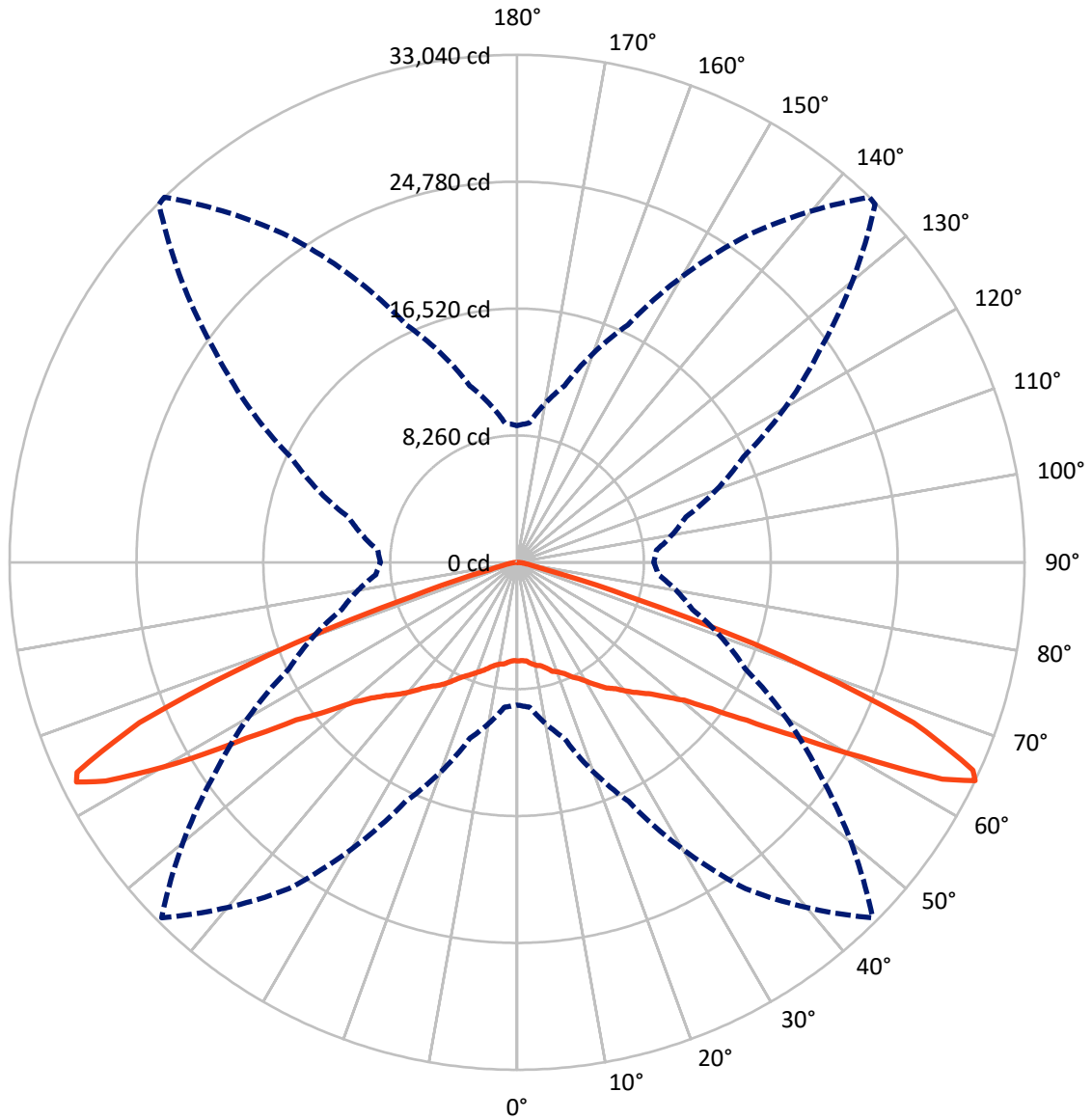
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

REPORT NUMBER: P574854
CATALOG NUMBER: EPH-VN-08-735-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P574854
 CATALOG NUMBER: EPH-VN-08-735-U-5NQ

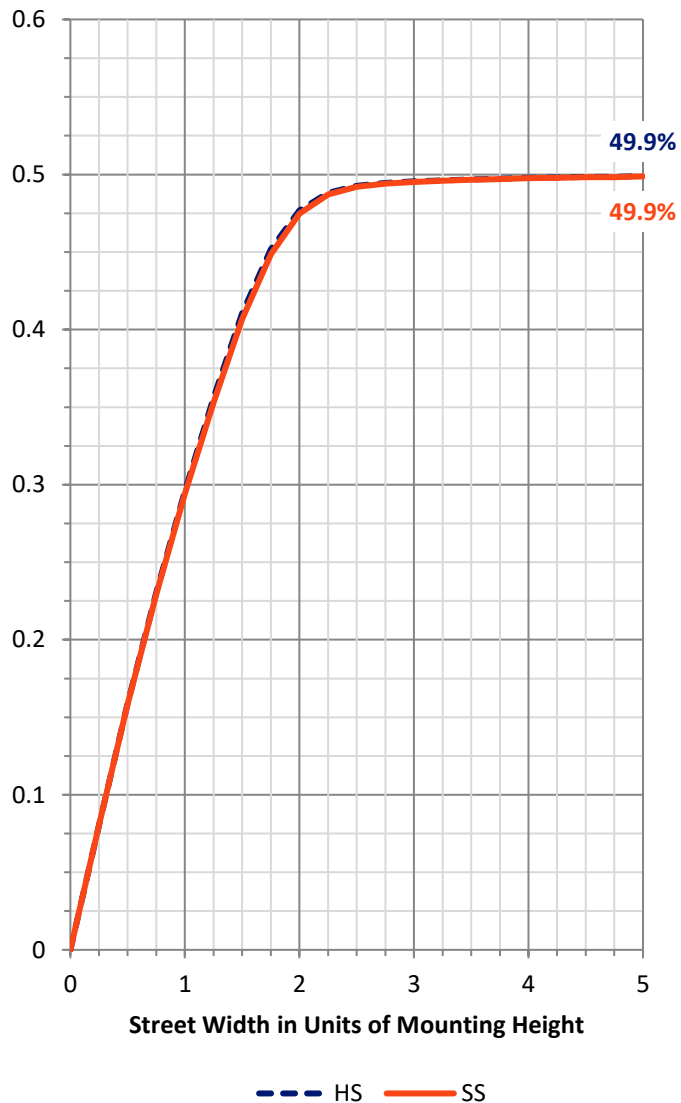
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27445.9	0.0	27445.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27393.6	0.0	27393.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	54839.5	0.0	54839.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.9	1.2
10°-20°	2033.3	3.7
20°-30°	3821.4	7.0
30°-40°	6302.1	11.5
40°-50°	9856.1	18.0
50°-60°	15925.1	29.0
60°-70°	14339.5	26.1
70°-80°	1698.6	3.1
80°-90°	232.5	0.4
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°	54839.5	100.0
0°-180°	54839.5	100.0

Coefficient of Utilization



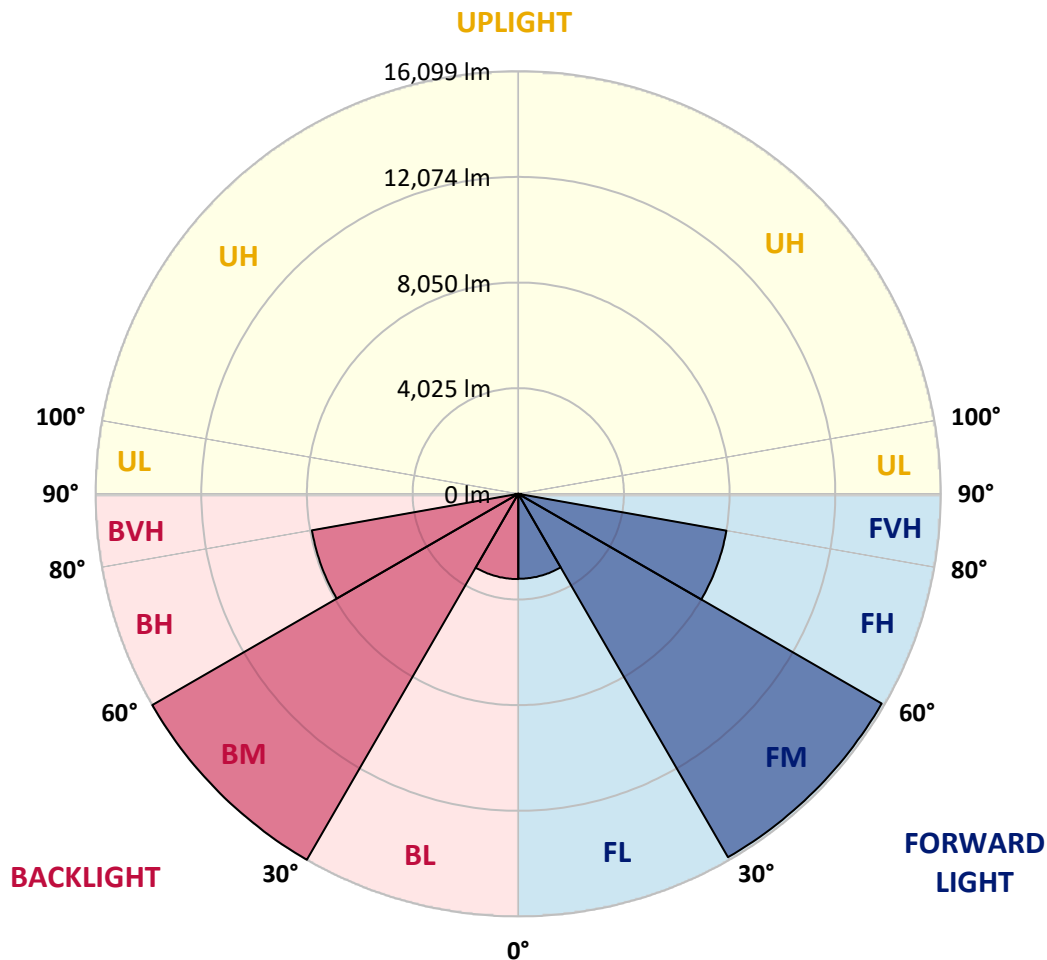
REPORT NUMBER: P574854
 CATALOG NUMBER: EPH-VN-08-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3236.5	5.9			
FM (30°-60°)	15984.0	29.1			
FH (60°-80°)	8053.8	14.7			G4/12000
FVH (80°-90°)	119.3	0.2			G2/225
BL (0°-30°)	3249.0	5.9	B4/5000		
BM (30°-60°)	16099.3	29.4	B5		
BH (60°-80°)	7984.3	14.6	B5		G4/12000
BVH (80°-90°)	113.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P574854
 CATALOG NUMBER: EPH-VN-08-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6
2.5°	6345.1	6357.7	6470.9	6426.9	6464.6	6395.4	6445.7	6552.6	6426.9	6521.2
5°	6414.3	6433.2	6433.2	6477.2	6502.3	6489.7	6521.2	6477.2	6596.7	6546.3
7.5°	6665.8	6634.4	6584.1	6621.8	6628.1	6659.5	6691.0	6747.6	6728.7	6684.7
10°	6709.8	6684.7	6760.2	6766.4	6735.0	6709.8	6741.3	6741.3	6797.9	6810.5
12.5°	6785.3	6810.5	6804.2	6854.5	6860.8	6841.9	6892.2	6986.5	6961.4	6980.3
15°	7074.6	7043.1	7036.9	7087.2	7168.9	7049.4	7137.5	7131.2	7106.0	7143.8
17.5°	7326.1	7225.5	7269.5	7351.3	7319.8	7345.0	7458.2	7357.6	7382.7	7338.7
20°	7546.2	7464.5	7470.8	7502.2	7502.2	7577.7	7621.7	7584.0	7558.8	7552.5
22.5°	7791.5	7697.1	7703.4	7835.5	7879.5	7854.4	7822.9	7885.8	7898.4	7848.1
25°	7973.8	8074.5	8105.9	8168.8	8074.5	8143.6	8118.5	8238.0	8313.4	8212.8
27.5°	8451.8	8407.7	8489.5	8483.2	8558.7	8489.5	8533.5	8571.2	8602.7	8609.0
30°	8879.4	8898.3	8816.5	9036.6	8860.5	8973.7	9049.2	9068.0	9105.8	9105.8
32.5°	9332.2	9294.4	9426.5	9376.2	9344.7	9432.8	9351.0	9608.9	9457.9	9546.0
35°	9841.5	9841.5	9891.8	10030.2	9841.5	9784.9	9935.9	10042.8	10042.8	9885.5
37.5°	10413.8	10363.5	10426.4	10602.4	10457.8	10269.1	10545.8	10589.9	10558.4	10514.4
40°	10816.2	10803.7	10929.4	11162.1	10954.6	10916.9	10967.2	11086.7	11124.4	11168.4
42.5°	11495.4	11552.0	11916.7	11860.1	11690.4	11558.3	11545.7	11992.2	11885.3	11772.1
45°	12501.6	12451.3	12639.9	12646.2	12426.1	12136.8	12199.7	12608.5	12790.8	12539.3
47.5°	13300.2	13325.4	13457.4	13727.8	13218.5	12916.6	13149.3	13809.6	13753.0	13658.7
50°	14369.3	14482.5	14897.5	14803.2	14350.4	13979.4	14488.7	15111.3	15180.5	14834.6
52.5°	15847.1	16023.1	16249.5	16325.0	15891.1	15759.0	15790.5	16564.0	16394.2	16060.9
55°	17142.5	17224.2	17639.3	18261.9	18230.4	17595.3	17960.0	18249.3	17557.5	16872.1
57.5°	17695.9	17733.6	18890.7	20135.8	20877.9	21022.5	20607.5	19632.8	17985.2	16664.6
60°	16318.7	16677.1	18073.2	20884.2	24273.7	25946.4	23185.8	19790.0	16985.3	15381.7
62.5°	13042.4	13061.3	15136.5	19400.1	26386.6	30769.7	24173.1	18312.2	14319.0	12501.6
64°	9288.1	9464.2	11847.6	17173.9	25946.4	32731.7	24053.6	16381.6	11803.5	9225.3
65°	6665.8	6911.1	9212.7	14910.1	24915.1	32499.1	23695.1	14721.4	9546.0	7043.1
67.5°	2452.5	2553.1	3615.9	7458.2	17890.8	27694.6	18777.5	8093.3	4194.4	2987.0
70°	1138.2	1144.5	1339.5	2465.1	7822.9	18519.7	8961.1	3037.4	1578.4	1251.4
72.5°	836.4	855.2	937.0	1138.2	2301.6	7841.8	2943.0	1245.1	924.4	817.5
75°	679.2	691.7	716.9	823.8	1062.8	2100.4	1194.8	861.5	735.8	660.3
77.5°	521.9	521.9	578.5	628.9	704.3	981.0	792.4	685.4	597.4	521.9
80°	377.3	383.6	452.8	490.5	477.9	647.7	572.3	566.0	490.5	408.8
82.5°	220.1	239.0	327.0	352.2	339.6	383.6	415.0	440.2	383.6	283.0
85°	125.8	132.1	188.7	194.9	194.9	182.4	239.0	264.1	257.8	176.1
87.5°	37.7	37.7	50.3	50.3	56.6	62.9	94.3	113.2	125.8	88.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574854

CATALOG NUMBER: EPH-VN-08-735-U-5NQ

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
6420.6	0°	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6	6420.6
6552.6	2.5°	6521.2	6426.9	6433.2	6458.3	6376.6	6408.0	6502.3	6433.2	6414.3	6376.6
6621.8	5°	6489.7	6590.4	6552.6	6565.2	6546.3	6458.3	6445.7	6502.3	6533.8	6477.2
6760.2	7.5°	6709.8	6665.8	6615.5	6634.4	6590.4	6665.8	6716.1	6602.9	6659.5	6628.1
6810.5	10°	6835.6	6753.9	6791.6	6779.0	6747.6	6823.0	6772.7	6760.2	6709.8	6640.7
6936.2	12.5°	6879.6	6974.0	7036.9	6929.9	6948.8	6911.1	6879.6	6879.6	6823.0	6804.2
7043.1	15°	7074.6	7156.3	7131.2	7212.9	7106.0	7143.8	7181.5	7087.2	7137.5	6999.1
7307.3	17.5°	7433.0	7363.9	7451.9	7345.0	7382.7	7458.2	7338.7	7338.7	7376.4	7301.0
7565.1	20°	7659.4	7628.0	7596.5	7602.8	7539.9	7609.1	7571.4	7552.5	7495.9	7521.1
7904.7	22.5°	7873.2	7829.2	7841.8	7860.6	7904.7	7873.2	7854.4	7873.2	7734.9	7860.6
8282.0	25°	8137.3	8256.8	8219.1	8300.8	8175.1	8256.8	8250.5	8131.1	8206.5	8156.2
8577.5	27.5°	8577.5	8514.7	8571.2	8470.6	8558.7	8565.0	8489.5	8690.7	8602.7	8590.1
9011.4	30°	9143.5	9099.5	9061.8	9005.2	9074.3	9017.7	9080.6	9099.5	9017.7	8954.8
9439.1	32.5°	9464.2	9583.7	9627.7	9489.4	9495.7	9527.1	9470.5	9413.9	9464.2	9483.1
9923.3	35°	9917.0	10030.2	10055.3	9948.4	9891.8	10049.1	9935.9	10124.5	9961.0	9967.3
10438.9	37.5°	10445.2	10476.7	10690.5	10571.0	10520.7	10445.2	10652.7	10627.6	10665.3	10363.5
11067.8	40°	11042.6	11155.8	11275.3	10973.5	10967.2	11036.3	11023.8	11168.4	11099.2	11055.2
11715.5	42.5°	11696.6	11935.6	11954.5	11753.2	11627.5	11614.9	11677.8	11998.5	12004.8	11715.5
12633.6	45°	12564.5	12828.6	12759.4	12369.5	12231.2	12212.3	12520.4	12658.8	12778.3	12665.1
13746.7	47.5°	13646.1	13822.2	13771.9	13413.4	12966.9	13092.7	13394.5	13828.4	13702.7	13551.8
14771.7	50°	14803.2	15010.7	14903.8	14545.3	14117.7	14117.7	14488.7	15042.1	15004.4	14708.8
15847.1	52.5°	16086.0	16387.9	16633.1	16123.8	15765.3	15821.9	16406.7	16608.0	16513.6	16306.1
16928.7	55°	17041.9	17620.4	18123.5	18148.7	18167.5	18161.2	18312.2	18513.4	17840.5	17507.2
16582.8	57.5°	16809.2	17903.4	19626.5	20796.1	21142.0	21324.4	21274.1	20343.4	18752.4	17658.2
15262.2	60°	15149.0	16935.0	19714.5	23468.7	25984.2	25732.6	24814.5	21135.7	18249.3	16400.5
12023.6	62.5°	12086.5	14237.2	18236.7	24223.4	31153.3	31077.9	26273.4	19305.7	15205.6	12866.3
8892.0	64°	9105.8	11369.6	16268.4	24028.4	32964.4	33039.9	25902.4	17054.5	11897.9	9105.8
6703.6	65°	6967.7	9068.0	14337.8	23626.0	32574.5	32618.5	24871.1	14727.7	9042.9	6464.6
2685.2	67.5°	2773.2	3861.1	7778.9	17916.0	27971.3	27851.8	17746.2	7124.9	3458.7	2251.3
1163.4	70°	1182.2	1471.5	2729.2	8489.5	18727.2	18381.3	7640.5	2314.2	1282.9	1075.3
798.6	72.5°	811.2	899.3	1169.7	2622.3	7785.2	7602.8	2175.8	1075.3	874.1	804.9
635.1	75°	654.0	716.9	848.9	1100.5	2062.6	1987.2	1025.0	792.4	698.0	647.7
503.1	77.5°	509.4	572.3	666.6	760.9	943.3	937.0	685.4	597.4	540.8	503.1
377.3	80°	402.5	465.4	528.2	540.8	616.3	603.7	465.4	471.6	440.2	364.7
257.8	82.5°	276.7	377.3	421.3	383.6	364.7	364.7	333.3	333.3	308.1	226.4
157.2	85°	169.8	251.5	264.1	226.4	169.8	169.8	182.4	176.1	163.5	119.5
81.8	87.5°	88.0	119.5	106.9	88.0	56.6	56.6	50.3	37.7	37.7	31.4
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°
6420.6
6357.7
6590.4
6565.2
6741.3
6823.0
7106.0
7206.6
7571.4
7684.6
8118.5
8565.0
8835.4
9464.2
9797.5
10514.4
10948.3
11589.7
12558.2
13426.0
14595.6
16211.8
17167.7
17771.4
16167.8
12721.7
8885.7
6225.6
2207.3
1069.0
804.9
641.4
490.5
358.4
207.5
113.2
31.4
0.0

F REPORT)