

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: P574864

Luminaire Tested: **EPH-VN-06-750-U-5NQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574864  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-750-U-5NQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

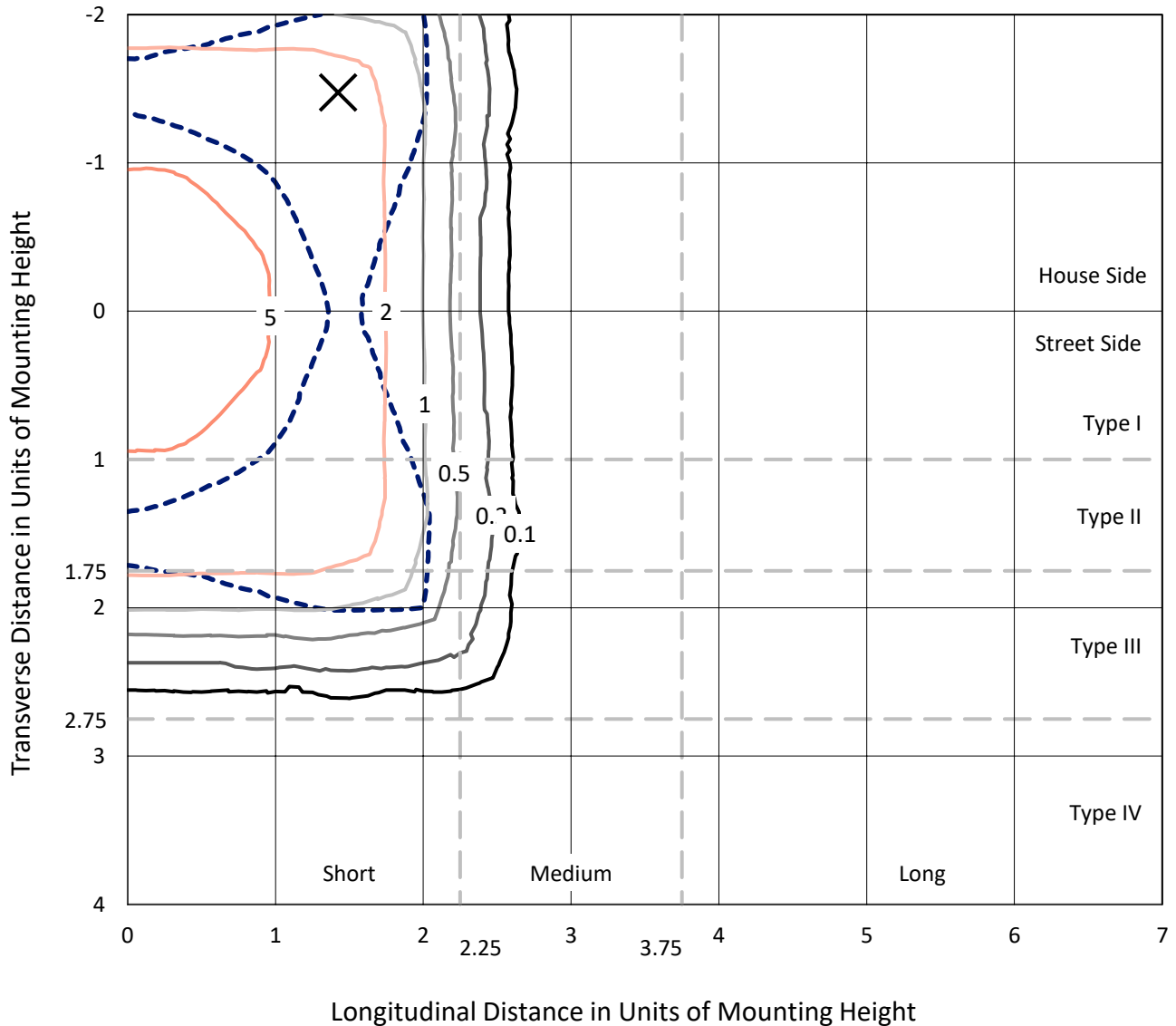
Lumens per Lamp: N/A  
Luminaire Lumens: 53982.5 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 464.2  
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: P574864  
 CATALOG NUMBER: EPH-VN-06-750-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

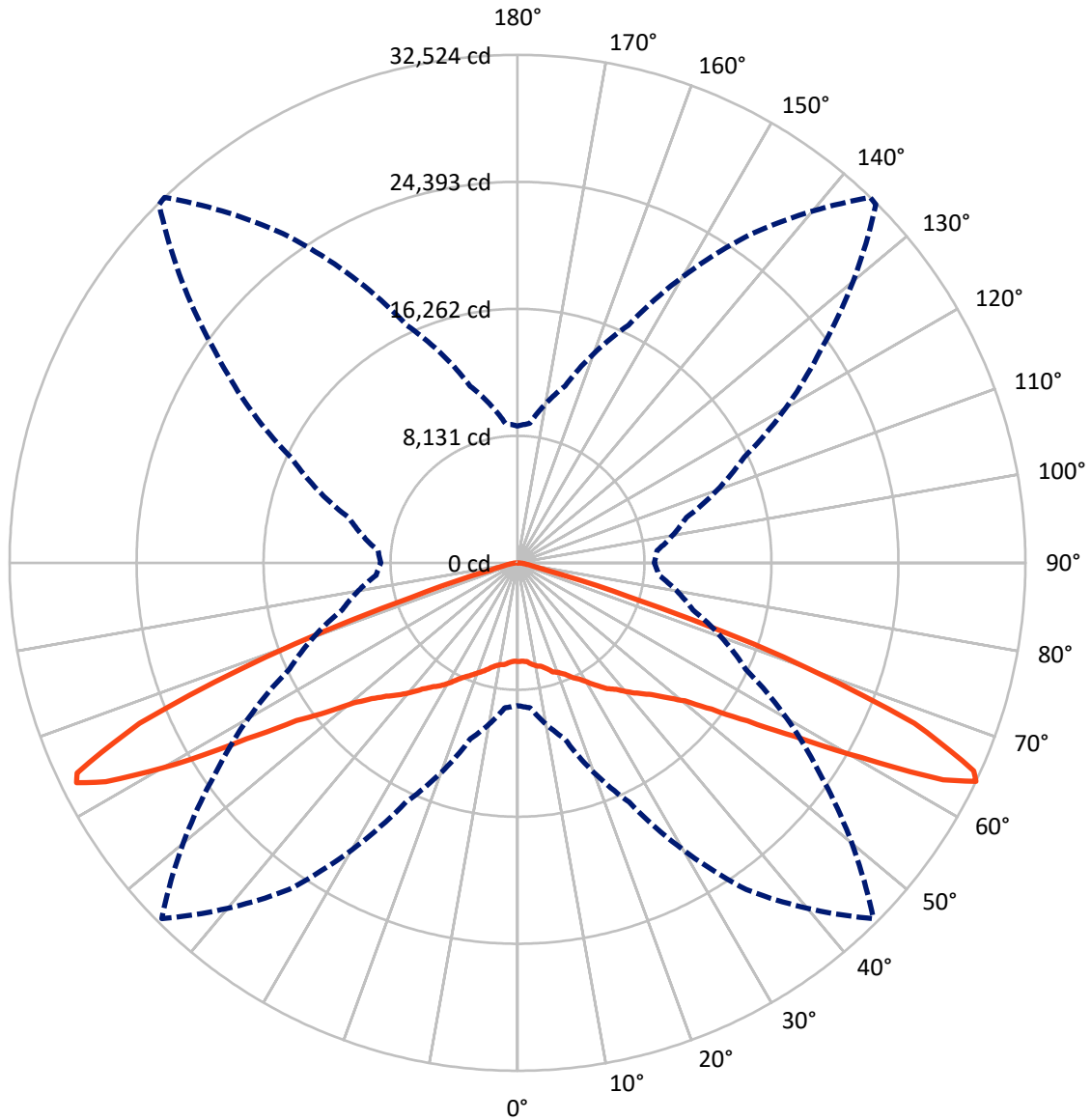
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P574864  
CATALOG NUMBER: EPH-VN-06-750-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P574864

CATALOG NUMBER: EPH-VN-06-750-U-5NQ

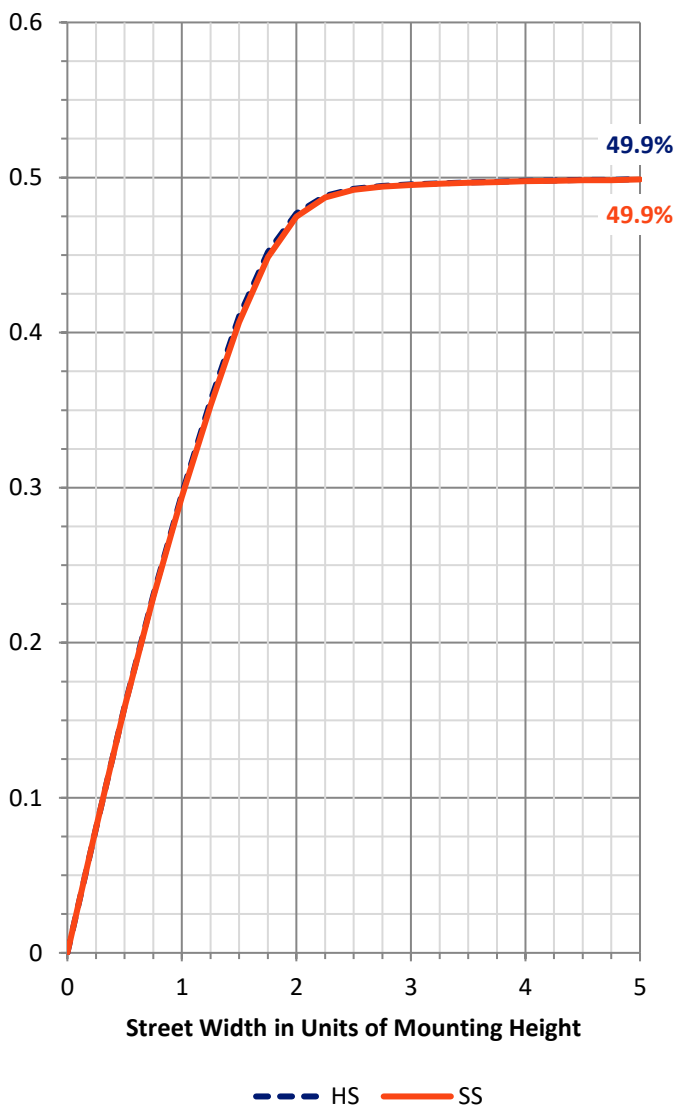
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27017.0	0.0	27017.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26965.5	0.0	26965.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53982.5	0.0	53982.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.0	1.2
10°-20°	2001.5	3.7
20°-30°	3761.7	7.0
30°-40°	6203.7	11.5
40°-50°	9702.1	18.0
50°-60°	15676.2	29.0
60°-70°	14115.4	26.1
70°-80°	1672.0	3.1
80°-90°	228.9	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°	53982.5	100.0
0°-180°	53982.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P574864

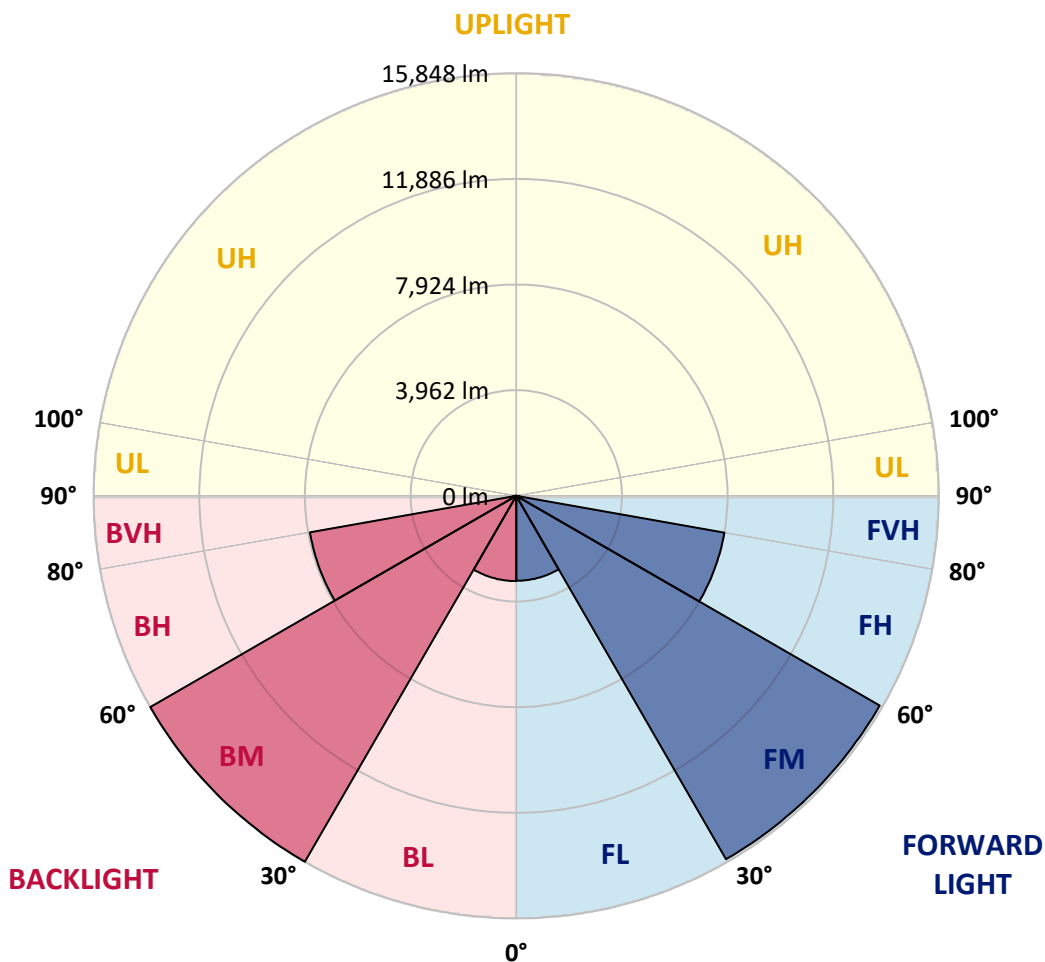
CATALOG NUMBER: EPH-VN-06-750-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3186.0	5.9			
FM (30°-60°)	15734.2	29.1			
FH (60°-80°)	7927.9	14.7			G4/12000
FVH (80°-90°)	117.4	0.2			G2/225
BL (0°-30°)	3198.3	5.9	B4/5000		
BM (30°-60°)	15847.7	29.4	B5		
BH (60°-80°)	7859.5	14.6	B5		G4/12000
BVH (80°-90°)	111.5	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: P574864  
 CATALOG NUMBER: EPH-VN-06-750-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2
2.5°	6246.0	6258.3	6369.8	6326.4	6363.6	6295.5	6345.0	6450.2	6326.4	6419.3
5°	6314.1	6332.6	6332.6	6376.0	6400.7	6388.3	6419.3	6376.0	6493.6	6444.0
7.5°	6561.7	6530.7	6481.2	6518.3	6524.5	6555.5	6586.4	6642.1	6623.6	6580.2
10°	6605.0	6580.2	6654.5	6660.7	6629.8	6605.0	6635.9	6635.9	6691.7	6704.0
12.5°	6679.3	6704.0	6697.8	6747.4	6753.6	6735.0	6784.5	6877.4	6852.6	6871.2
15°	6964.0	6933.1	6926.9	6976.4	7056.9	6939.3	7025.9	7019.7	6995.0	7032.1
17.5°	7211.6	7112.6	7155.9	7236.4	7205.4	7230.2	7341.6	7242.6	7267.4	7224.0
20°	7428.3	7347.8	7354.0	7385.0	7385.0	7459.2	7502.6	7465.4	7440.7	7434.5
22.5°	7669.7	7576.9	7583.1	7713.0	7756.4	7731.6	7700.7	7762.6	7775.0	7725.4
25°	7849.2	7948.3	7979.2	8041.1	7948.3	8016.4	7991.6	8109.2	8183.5	8084.5
27.5°	8319.7	8276.4	8356.8	8350.6	8424.9	8356.8	8400.2	8437.3	8468.3	8474.4
30°	8740.6	8759.2	8678.7	8895.4	8722.1	8833.5	8907.8	8926.3	8963.5	8963.5
32.5°	9186.3	9149.2	9279.2	9229.7	9198.7	9285.4	9204.9	9458.7	9310.1	9396.8
35°	9687.7	9687.7	9737.3	9873.4	9687.7	9632.0	9780.6	9885.8	9885.8	9731.1
37.5°	10251.1	10201.5	10263.4	10436.8	10294.4	10108.7	10381.0	10424.4	10393.4	10350.1
40°	10647.2	10634.8	10758.7	10987.7	10783.4	10746.3	10795.8	10913.4	10950.5	10993.9
42.5°	11315.8	11371.5	11730.5	11674.8	11507.7	11377.7	11365.3	11804.8	11699.6	11588.1
45°	12306.2	12256.7	12442.4	12448.6	12231.9	11947.2	12009.1	12411.4	12591.0	12343.4
47.5°	13092.4	13117.1	13247.1	13513.3	13011.9	12714.8	12943.8	13593.8	13538.1	13445.2
50°	14144.7	14256.1	14664.7	14571.8	14126.1	13760.9	14262.3	14875.2	14943.3	14602.8
52.5°	15599.4	15772.8	15995.6	16069.9	15642.8	15512.8	15543.7	16305.1	16138.0	15809.9
55°	16874.6	16955.1	17363.6	17976.5	17945.5	17320.3	17679.3	17964.1	17283.2	16608.4
57.5°	17419.4	17456.5	18595.5	19821.2	20551.6	20694.0	20285.4	19326.0	17704.1	16404.2
60°	16063.7	16416.5	17790.8	20557.8	23894.4	25541.0	22823.4	19480.7	16719.9	15141.3
62.5°	12838.6	12857.1	14899.9	19096.9	25974.3	30288.9	23795.3	18026.0	14095.2	12306.2
64°	9143.0	9316.3	11662.4	16905.6	25541.0	32220.2	23677.7	16125.6	11619.1	9081.1
65°	6561.7	6803.1	9068.7	14677.1	24525.8	31991.2	23324.9	14491.4	9396.8	6933.1
67.5°	2414.2	2513.2	3559.4	7341.6	17611.3	27261.9	18484.1	7966.8	4128.9	2940.4
70°	1120.4	1126.6	1318.5	2426.6	7700.7	18230.3	8821.1	2989.9	1553.8	1231.9
72.5°	823.3	841.9	922.3	1120.4	2265.6	7719.2	2897.0	1225.7	910.0	804.7
75°	668.5	680.9	705.7	810.9	1046.2	2067.5	1176.1	848.1	724.3	650.0
77.5°	513.8	513.8	569.5	619.0	693.3	965.7	780.0	674.7	588.1	513.8
80°	371.4	377.6	445.7	482.8	470.5	637.6	563.3	557.1	482.8	402.4
82.5°	216.7	235.2	321.9	346.7	334.3	377.6	408.6	433.3	377.6	278.6
85°	123.8	130.0	185.7	191.9	191.9	179.5	235.2	260.0	253.8	173.3
87.5°	37.1	37.1	49.5	49.5	55.7	61.9	92.9	111.4	123.8	86.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574864

CATALOG NUMBER: EPH-VN-06-750-U-5NQ

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
6320.2	0°	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2
6450.2	2.5°	6419.3	6326.4	6332.6	6357.4	6276.9	6307.9	6400.7	6332.6	6314.1	6276.9
6518.3	5°	6388.3	6487.4	6450.2	6462.6	6444.0	6357.4	6345.0	6400.7	6431.7	6376.0
6654.5	7.5°	6605.0	6561.7	6512.1	6530.7	6487.4	6561.7	6611.2	6499.8	6555.5	6524.5
6704.0	10°	6728.8	6648.3	6685.5	6673.1	6642.1	6716.4	6666.9	6654.5	6605.0	6536.9
6827.8	12.5°	6772.1	6865.0	6926.9	6821.7	6840.2	6803.1	6772.1	6772.1	6716.4	6697.8
6933.1	15°	6964.0	7044.5	7019.7	7100.2	6995.0	7032.1	7069.3	6976.4	7025.9	6889.7
7193.1	17.5°	7316.9	7248.8	7335.4	7230.2	7267.4	7341.6	7224.0	7224.0	7261.2	7186.9
7446.9	20°	7539.7	7508.8	7477.8	7484.0	7422.1	7490.2	7453.1	7434.5	7378.8	7403.5
7781.1	22.5°	7750.2	7706.9	7719.2	7737.8	7781.1	7750.2	7731.6	7750.2	7614.0	7737.8
8152.6	25°	8010.2	8127.8	8090.7	8171.1	8047.3	8127.8	8121.6	8004.0	8078.3	8028.8
8443.5	27.5°	8443.5	8381.6	8437.3	8338.3	8424.9	8431.1	8356.8	8554.9	8468.3	8455.9
8870.6	30°	9000.6	8957.3	8920.1	8864.4	8932.5	8876.8	8938.7	8957.3	8876.8	8814.9
9291.6	32.5°	9316.3	9433.9	9477.3	9341.1	9347.3	9378.2	9322.5	9266.8	9316.3	9334.9
9768.2	35°	9762.0	9873.4	9898.2	9793.0	9737.3	9892.0	9780.6	9966.3	9805.4	9811.5
10275.8	37.5°	10282.0	10313.0	10523.4	10405.8	10356.3	10282.0	10486.3	10461.5	10498.7	10201.5
10894.8	40°	10870.1	10981.5	11099.1	10802.0	10795.8	10863.9	10851.5	10993.9	10925.8	10882.5
11532.4	42.5°	11513.9	11749.1	11767.7	11569.6	11445.8	11433.4	11495.3	11811.0	11817.2	11532.4
12436.2	45°	12368.1	12628.1	12560.0	12176.2	12040.0	12021.5	12324.8	12461.0	12578.6	12467.2
13531.9	47.5°	13432.8	13606.2	13556.6	13203.8	12764.3	12888.1	13185.2	13612.4	13488.5	13340.0
14540.9	50°	14571.8	14776.1	14670.9	14318.0	13897.1	13897.1	14262.3	14807.1	14769.9	14479.0
15599.4	52.5°	15834.7	16131.8	16373.2	15871.8	15519.0	15574.7	16150.4	16348.4	16255.6	16051.3
16664.1	55°	16775.6	17345.1	17840.3	17865.1	17883.6	17877.4	18026.0	18224.1	17561.7	17233.6
16323.7	57.5°	16546.5	17623.6	19319.8	20471.1	20811.6	20991.1	20941.6	20025.5	18459.3	17382.2
15023.7	60°	14912.3	16670.3	19406.4	23102.0	25578.1	25330.5	24426.7	20805.4	17964.1	16144.2
11835.8	62.5°	11897.7	14014.7	17951.7	23844.8	30666.5	30592.2	25862.9	19004.1	14968.0	12665.2
8753.0	64°	8963.5	11192.0	16014.2	23652.9	32449.3	32523.6	25497.6	16788.0	11711.9	8963.5
6598.8	65°	6858.8	8926.3	14113.8	23256.8	32065.5	32108.8	24482.4	14497.6	8901.6	6363.6
2643.2	67.5°	2729.9	3800.8	7657.3	17636.0	27534.2	27416.6	17468.9	7013.6	3404.6	2216.1
1145.2	70°	1163.8	1448.5	2686.6	8356.8	18434.6	18094.1	7521.2	2278.0	1262.8	1058.5
786.2	72.5°	798.5	885.2	1151.4	2581.3	7663.5	7484.0	2141.8	1058.5	860.4	792.4
625.2	75°	643.8	705.7	835.7	1083.3	2030.4	1956.1	1009.0	780.0	687.1	637.6
495.2	77.5°	501.4	563.3	656.2	749.0	928.5	922.3	674.7	588.1	532.4	495.2
371.4	80°	396.2	458.1	520.0	532.4	606.6	594.3	458.1	464.3	433.3	359.0
253.8	82.5°	272.4	371.4	414.7	377.6	359.0	359.0	328.1	328.1	303.3	222.8
154.8	85°	167.1	247.6	260.0	222.8	167.1	167.1	179.5	173.3	160.9	117.6
80.5	87.5°	86.7	117.6	105.2	86.7	55.7	55.7	49.5	37.1	37.1	31.0
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°
6320.2
6258.3
6487.4
6462.6
6635.9
6716.4
6995.0
7094.0
7453.1
7564.5
7991.6
8431.1
8697.3
9316.3
9644.4
10350.1
10777.2
11408.6
12361.9
13216.2
14367.6
15958.5
16899.4
17493.6
15915.1
12522.9
8746.8
6128.3
2172.8
1052.3
792.4
631.4
482.8
352.8
204.3
111.4
31.0
0.0

F REPORT)