

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: P575454

Luminaire Tested: **EPH-VN-08-735-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575454
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-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

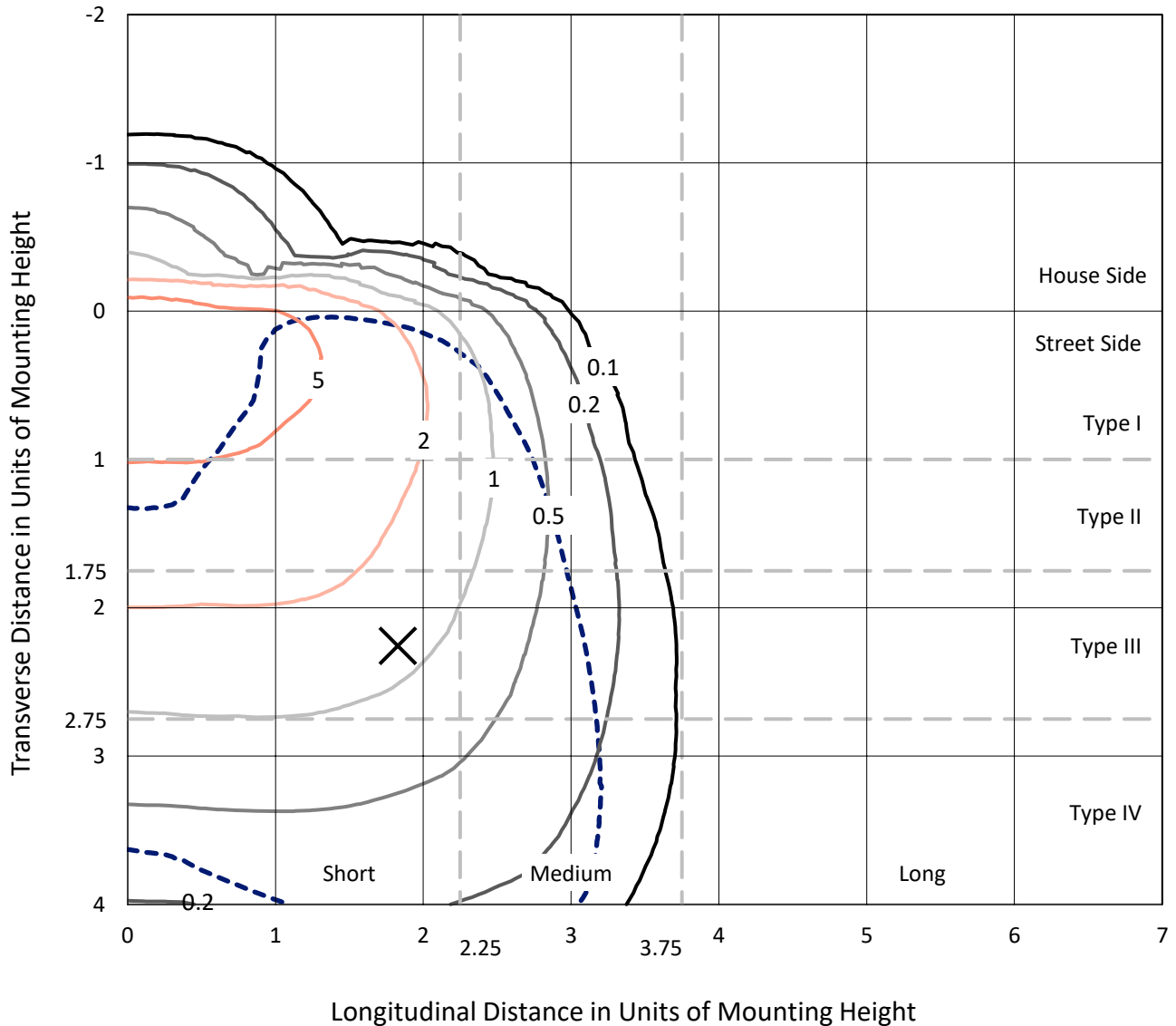
Lumens per Lamp: N/A
Luminaire Lumens: 45423.2 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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: P575454
 CATALOG NUMBER: EPH-VN-08-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

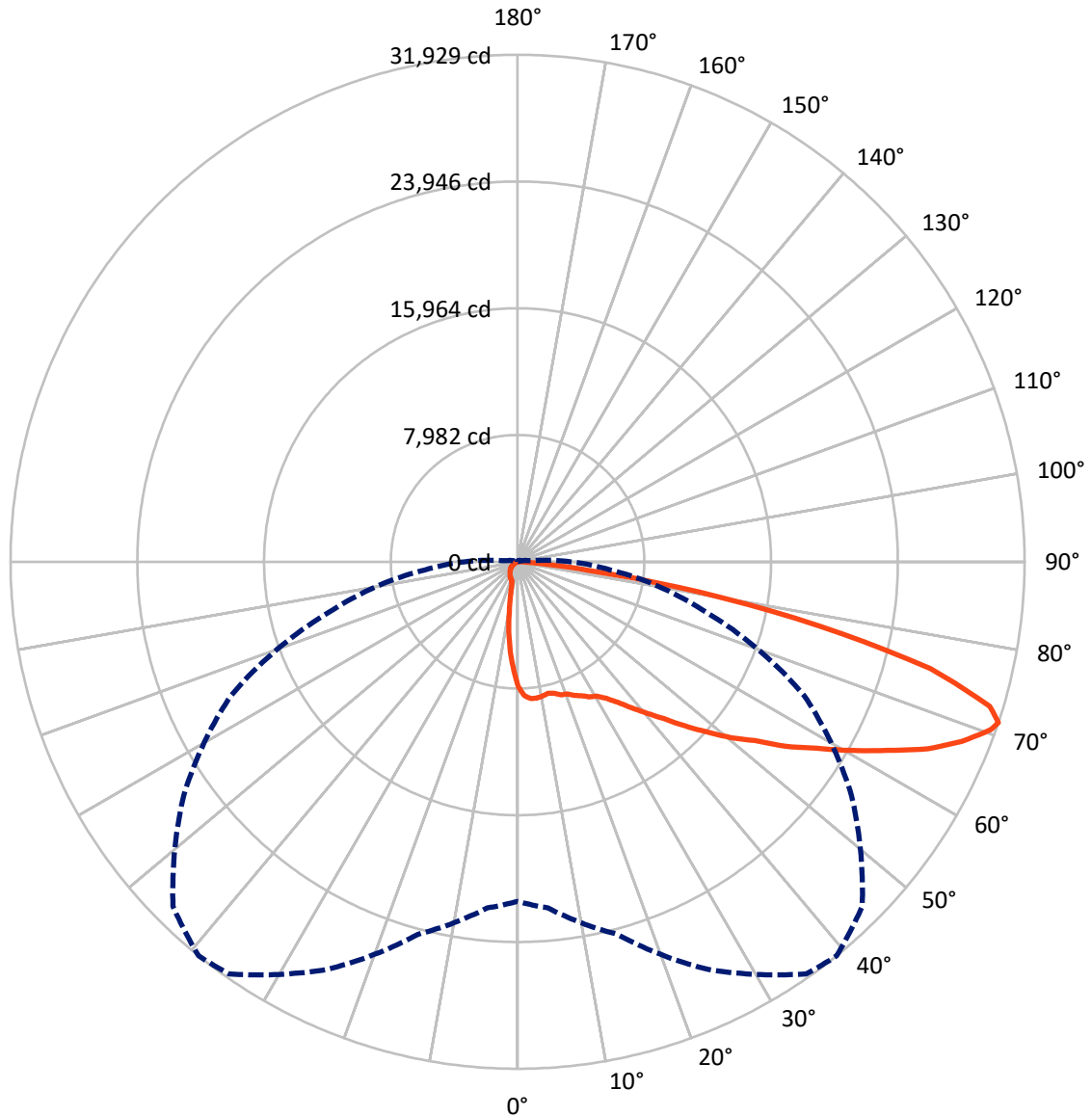
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P575454
CATALOG NUMBER: EPH-VN-08-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P575454
 CATALOG NUMBER: EPH-VN-08-735-U-SL4-HSS

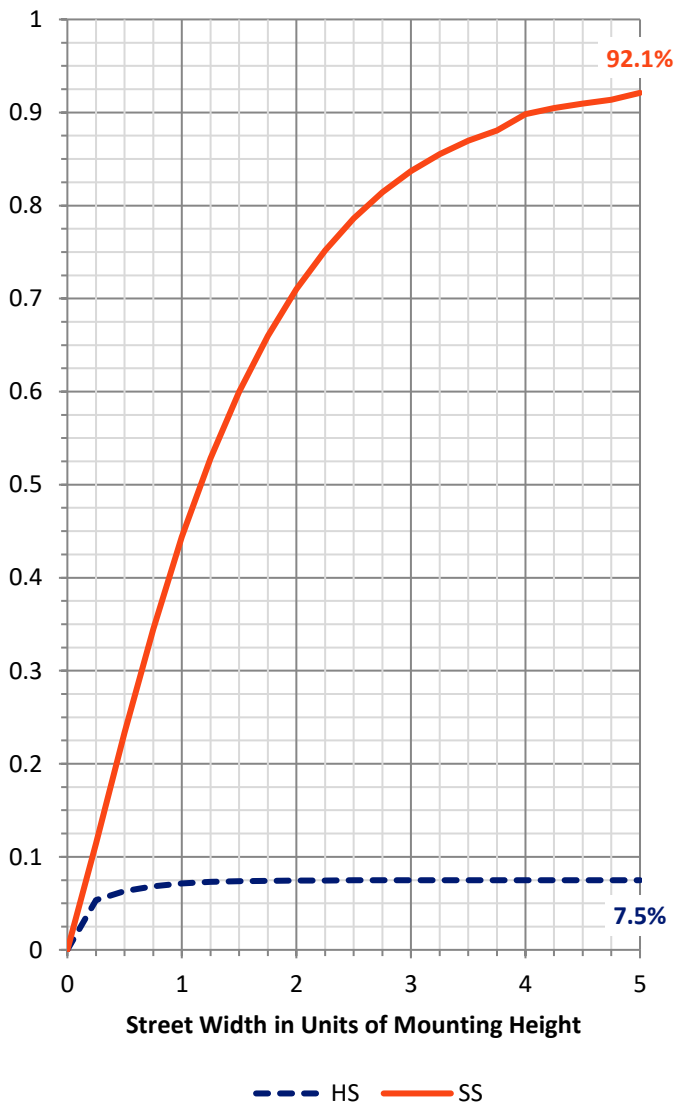
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3419.7	0.0	3419.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	42003.5	0.0	42003.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	45423.2	0.0	45423.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.0	1.5
10°-20°	1627.0	3.6
20°-30°	2611.8	5.8
30°-40°	3998.1	8.8
40°-50°	6417.7	14.1
50°-60°	9426.5	20.8
60°-70°	11872.3	26.1
70°-80°	7923.3	17.4
80°-90°	885.5	1.9
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°	45423.2	100.0
0°-180°	45423.2	100.0

Coefficient of Utilization



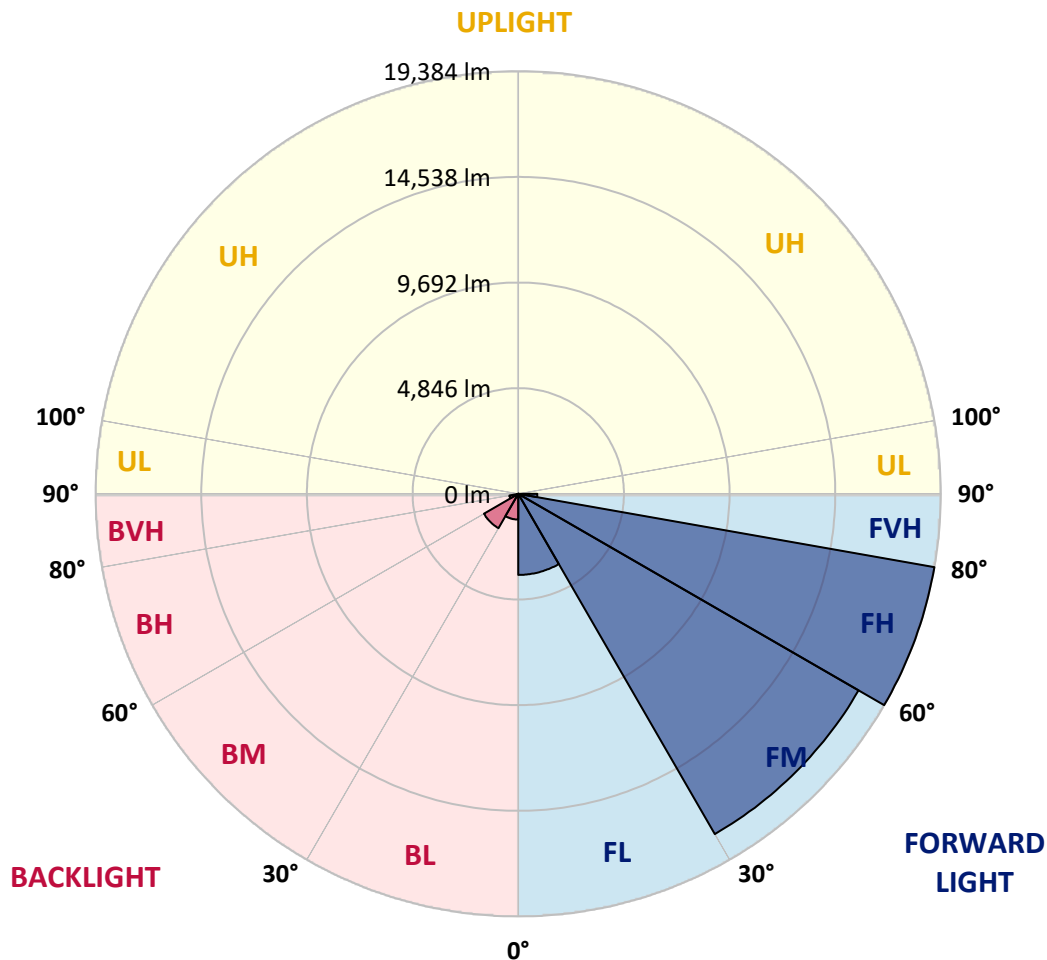
REPORT NUMBER: P575454
 CATALOG NUMBER: EPH-VN-08-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3719.2	8.2			
FM (30°-60°)	18024.6	39.7			
FH (60°-80°)	19384.0	42.7			G5
FVH (80°-90°)	875.7	1.9			G5
BL (0°-30°)	1180.6	2.6	B3/2500		
BM (30°-60°)	1817.7	4.0	B2/2500		
BH (60°-80°)	411.6	0.9	B1/500		G1/500
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P575454
 CATALOG NUMBER: EPH-VN-08-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2
2.5°	8519.9	8603.3	8519.9	8484.1	8448.4	8454.3	8359.0	8376.9	8263.7	8114.7
5°	8788.0	8901.2	8811.8	8770.1	8764.1	8650.9	8603.3	8490.1	8353.0	8120.7
7.5°	8764.1	8740.3	8782.0	8746.3	8668.8	8668.8	8615.2	8454.3	8317.3	8055.1
10°	8585.4	8656.9	8621.1	8579.4	8597.3	8603.3	8502.0	8388.8	8347.1	8084.9
12.5°	8567.5	8448.4	8579.4	8585.4	8507.9	8502.0	8490.1	8460.3	8329.2	8090.9
15°	8507.9	8460.3	8591.4	8597.3	8615.2	8597.3	8615.2	8591.4	8460.3	8323.2
17.5°	8555.6	8502.0	8686.7	8776.1	8734.3	8817.8	8788.0	8680.7	8567.5	8406.7
20°	8567.5	8645.0	8847.5	8883.3	9014.4	8877.3	8871.4	8758.2	8686.7	8513.9
22.5°	8788.0	8823.7	9073.9	9151.4	9157.4	9139.5	8990.5	8859.5	8829.7	8615.2
25°	9121.6	9246.7	9359.9	9407.6	9425.5	9342.1	9187.1	9020.3	8948.8	8811.8
27.5°	9711.4	9634.0	9735.3	9806.8	9604.2	9634.0	9437.4	9294.4	9193.1	9073.9
30°	10235.7	10164.3	10170.2	10158.3	9985.5	9824.6	9771.0	9520.8	9395.7	9443.3
32.5°	10706.4	10551.5	10682.6	10623.0	10301.3	10253.6	10211.9	9896.1	9920.0	10140.4
35°	11141.4	11087.7	11195.0	11087.7	10873.2	10861.3	10819.6	10545.6	10676.6	10992.4
37.5°	11540.5	11558.4	11689.5	11635.9	11653.7	11665.7	11641.8	11349.9	11725.2	12434.2
40°	11909.9	11886.1	12207.8	12374.7	12410.4	12541.5	12541.5	12470.0	13047.9	13846.3
42.5°	12303.2	12362.7	12779.8	13059.8	13399.4	13512.6	13667.5	13703.3	14597.0	15508.5
45°	12946.6	12845.3	13375.6	14036.9	14334.8	14734.0	14972.3	15174.9	16253.3	17504.4
47.5°	13762.9	13560.3	14025.0	14984.2	15675.4	16003.0	16432.0	16700.1	17754.7	19047.5
50°	14668.5	14459.9	14686.3	16009.0	16813.3	17409.1	17957.2	18296.8	19571.8	20775.4
52.5°	15693.2	15502.6	15538.3	17075.5	18261.1	18696.0	19416.9	19923.4	21192.4	21818.0
55°	16783.5	16735.9	16622.7	18118.1	19530.1	20507.2	20942.2	21549.9	22854.7	22384.0
57.5°	17879.8	17730.8	17891.7	19500.4	21567.8	22151.6	22753.4	23116.8	23778.2	22878.5
60°	18910.5	18922.4	19148.8	21001.8	23301.5	24129.7	24671.8	24451.4	24725.5	23093.0
62.5°	19780.4	19756.5	20328.5	22687.9	25595.3	26155.4	26560.5	25577.5	25166.4	23301.5
65°	20560.9	20829.0	21728.6	24695.7	27752.1	28395.6	28151.3	26643.9	25595.3	22687.9
67.5°	21150.7	21549.9	23110.9	26584.3	29730.1	30182.9	29843.3	27454.2	25088.9	20280.8
70°	21496.3	21901.4	24099.9	28157.2	31309.0	31636.7	30838.3	26828.6	22133.8	14686.3
71°	21389.0	21883.5	24290.5	28324.1	31684.3	31928.6	30689.4	25672.8	19905.5	12297.2
72.5°	20417.9	20882.6	23498.1	28204.9	31231.5	31082.6	29527.6	22896.4	15669.4	7840.7
75°	15002.1	15502.6	20167.6	24397.8	27877.2	26852.5	23897.3	16068.6	8174.3	2401.1
77.5°	7471.3	7554.7	12517.6	17713.0	20447.7	19428.9	16015.0	8960.7	3056.4	709.0
80°	3443.7	3467.5	4694.9	9175.2	12362.7	11635.9	8972.7	4420.8	1382.2	375.4
82.5°	2347.4	2383.2	2830.0	3801.2	5368.1	4528.0	3634.3	2830.0	792.4	226.4
85°	429.0	393.2	1584.8	2013.8	2073.4	1406.1	1257.1	2448.7	297.9	131.1
87.5°	0.0	6.0	220.4	822.2	738.8	327.7	429.0	595.8	29.8	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575454

CATALOG NUMBER: EPH-VN-08-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7906.2	0°	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2	7906.2
7995.6	2.5°	7894.3	7828.7	7608.3	7364.0	7143.6	6970.8	6750.4	6649.1	6488.2	6398.8
7977.7	5°	7781.1	7602.3	7221.0	6809.9	6351.2	5969.9	5546.8	5308.5	5034.5	4951.1
7810.9	7.5°	7590.4	7334.2	6774.2	6196.3	5493.2	4820.0	4301.6	3747.5	3407.9	3265.0
7685.7	10°	7471.3	7161.4	6398.8	5534.9	4551.9	3604.6	2877.7	2287.9	1978.0	1829.1
7715.5	12.5°	7471.3	7137.6	6095.0	4903.4	3598.6	2466.6	1781.4	1441.8	1340.5	1304.8
7846.6	15°	7453.4	7090.0	5803.0	4254.0	2663.2	1656.3	1328.6	1257.1	1245.2	1239.3
7971.7	17.5°	7542.8	7006.5	5505.1	3556.9	1882.7	1304.8	1221.4	1209.5	1197.5	1197.5
8049.2	20°	7608.3	6958.9	5147.7	2818.1	1406.1	1209.5	1173.7	1155.8	1149.9	1143.9
8067.1	22.5°	7554.7	6887.4	4706.8	2109.1	1227.3	1149.9	1126.1	1108.2	1096.3	1096.3
8251.8	25°	7656.0	6821.8	4265.9	1590.8	1149.9	1096.3	1072.4	1060.5	1054.6	1048.6
8466.2	27.5°	7793.0	6851.6	3741.6	1281.0	1084.3	1042.6	1018.8	1006.9	1000.9	989.0
8799.9	30°	7959.8	6845.7	3163.7	1120.1	1024.8	983.1	959.2	953.3	941.4	935.4
9300.4	32.5°	8245.8	7000.6	2567.9	1036.7	959.2	923.5	899.6	893.7	887.7	881.8
10158.3	35°	8859.5	7191.2	2007.8	971.1	899.6	857.9	840.1	828.2	822.2	816.2
11159.2	37.5°	9616.1	7614.3	1531.2	911.6	840.1	798.4	780.5	774.5	750.7	744.7
12547.4	40°	10563.4	8067.1	1179.7	846.0	786.4	744.7	726.9	709.0	679.2	667.3
13965.4	42.5°	11743.1	8507.9	971.1	786.4	726.9	697.1	667.3	637.5	613.7	589.8
15383.4	45°	12922.8	9020.3	852.0	732.8	679.2	643.5	619.6	577.9	536.2	500.5
16723.9	47.5°	13905.8	9205.0	780.5	673.2	631.5	601.8	566.0	512.4	452.8	417.1
17701.1	50°	14638.7	9097.8	709.0	613.7	577.9	548.1	500.5	434.9	375.4	339.6
18046.6	52.5°	14781.7	8627.1	643.5	566.0	524.3	488.6	434.9	363.4	297.9	262.1
18422.0	55°	14680.4	7846.6	589.8	524.3	476.6	423.0	363.4	291.9	232.4	196.6
18279.0	57.5°	14471.8	6923.1	530.3	470.7	417.1	363.4	297.9	238.3	172.8	137.0
17951.3	60°	13762.9	5666.0	470.7	411.1	357.5	309.8	244.3	172.8	119.2	89.4
17379.3	62.5°	12773.8	4355.3	411.1	351.5	309.8	256.2	190.7	125.1	71.5	47.7
15770.7	65°	10968.6	3050.5	345.6	291.9	256.2	208.5	143.0	77.5	41.7	17.9
12845.3	67.5°	8335.2	1888.7	286.0	244.3	220.4	166.8	101.3	47.7	17.9	6.0
8013.4	70°	4784.2	983.1	226.4	196.6	172.8	125.1	71.5	23.8	11.9	0.0
5844.7	71°	3342.4	726.9	202.6	172.8	154.9	113.2	59.6	17.9	6.0	0.0
3020.7	72.5°	1674.2	482.6	172.8	143.0	125.1	89.4	47.7	17.9	6.0	0.0
881.8	75°	595.8	309.8	119.2	95.3	89.4	65.5	29.8	11.9	6.0	0.0
440.9	77.5°	411.1	250.2	83.4	59.6	59.6	41.7	17.9	6.0	6.0	0.0
345.6	80°	375.4	137.0	53.6	35.7	29.8	23.8	11.9	6.0	0.0	0.0
339.6	82.5°	375.4	101.3	29.8	23.8	17.9	11.9	6.0	0.0	0.0	0.0
297.9	85°	262.1	53.6	17.9	17.9	11.9	6.0	0.0	0.0	0.0	0.0
53.6	87.5°	41.7	17.9	11.9	6.0	6.0	0.0	0.0	0.0	0.0	0.0
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°
7906.2
6392.9
4933.2
3211.3
1793.3
1304.8
1233.3
1185.6
1155.8
1102.2
1036.7
1000.9
941.4
875.8
810.3
738.8
655.4
577.9
494.5
411.1
327.7
256.2
190.7
137.0
83.4
47.7
17.9
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

F REPORT)