

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: P574816

Luminaire Tested: **EPH-VN-04-740-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574816
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

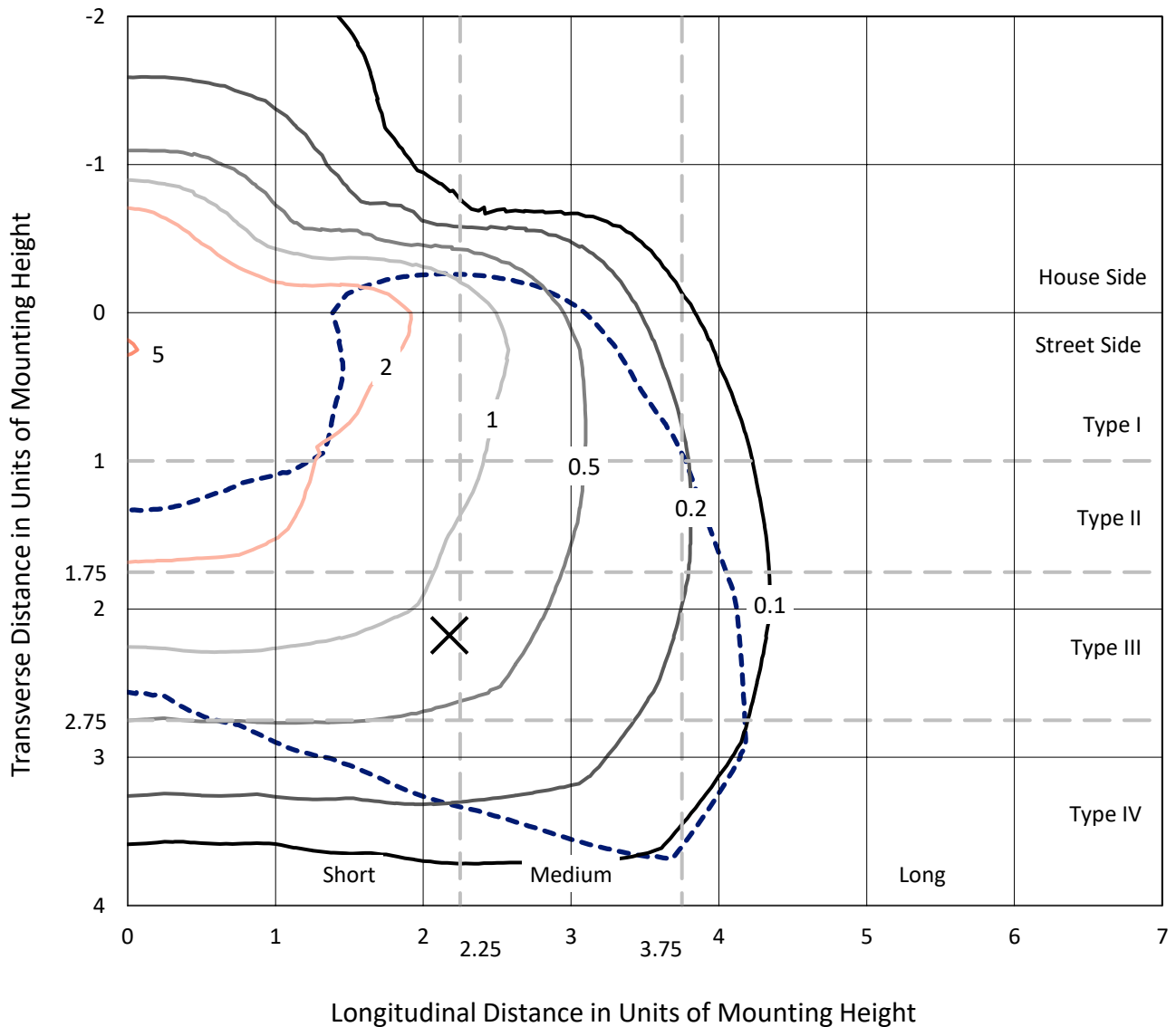
Lumens per Lamp: N/A
Luminaire Lumens: 35351.7 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 303.8
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: P574816
 CATALOG NUMBER: EPH-VN-04-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

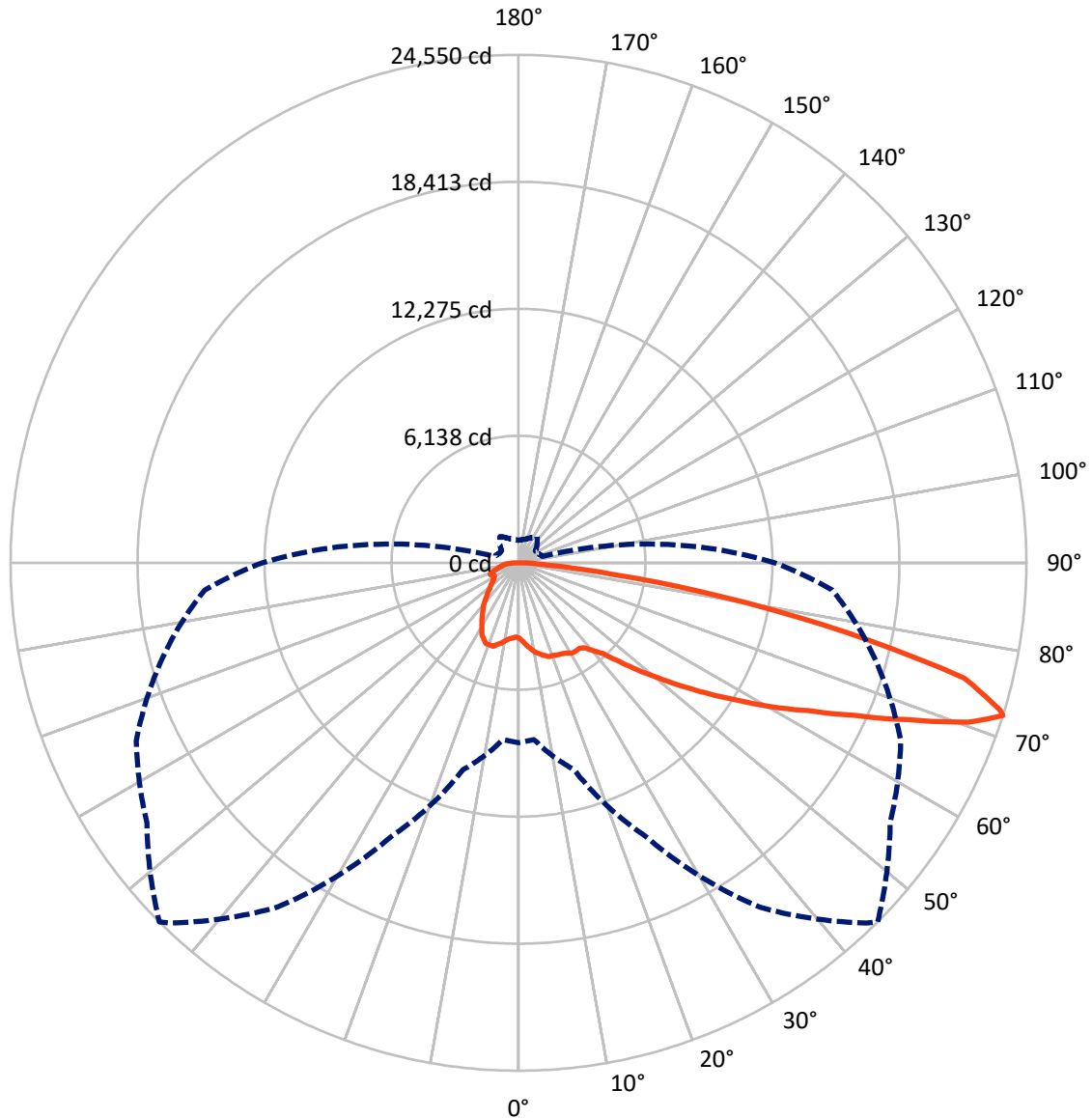
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P574816
CATALOG NUMBER: EPH-VN-04-740-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P574816
 CATALOG NUMBER: EPH-VN-04-740-U-T4W

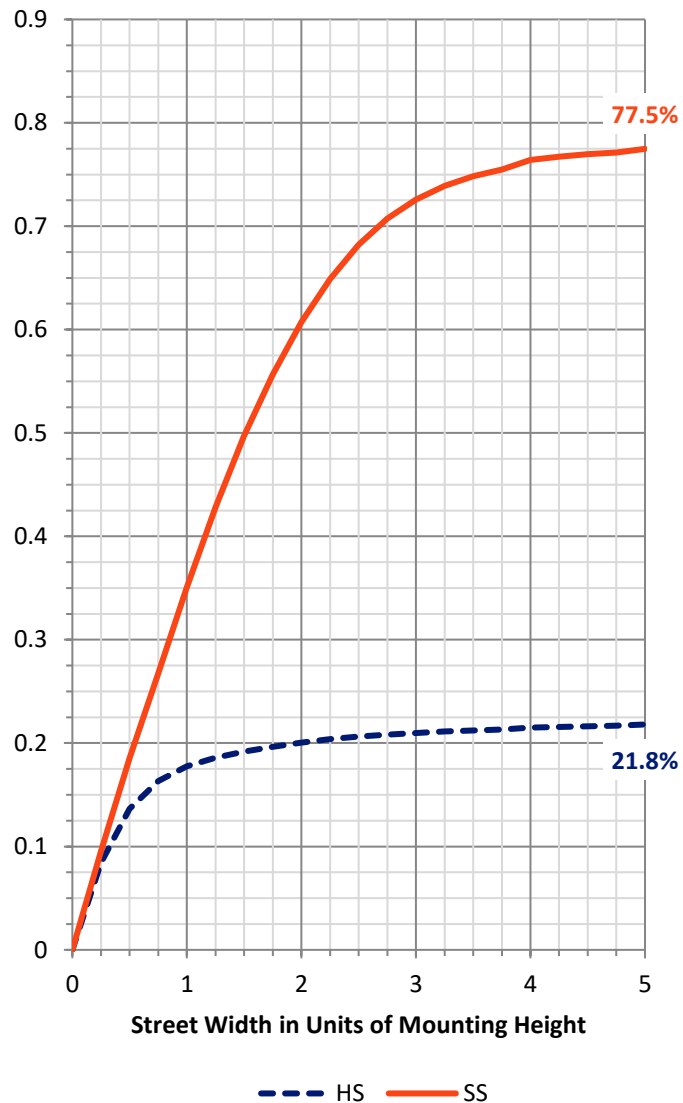
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7869.5	0.0	7869.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27482.2	0.0	27482.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	35351.7	0.0	35351.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.5	1.1
10°-20°	1239.4	3.5
20°-30°	2093.1	5.9
30°-40°	2896.5	8.2
40°-50°	4143.1	11.7
50°-60°	6682.4	18.9
60°-70°	9855.5	27.9
70°-80°	7156.8	20.2
80°-90°	912.3	2.6
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°	35351.7	100.0
0°-180°	35351.7	100.0

Coefficient of Utilization

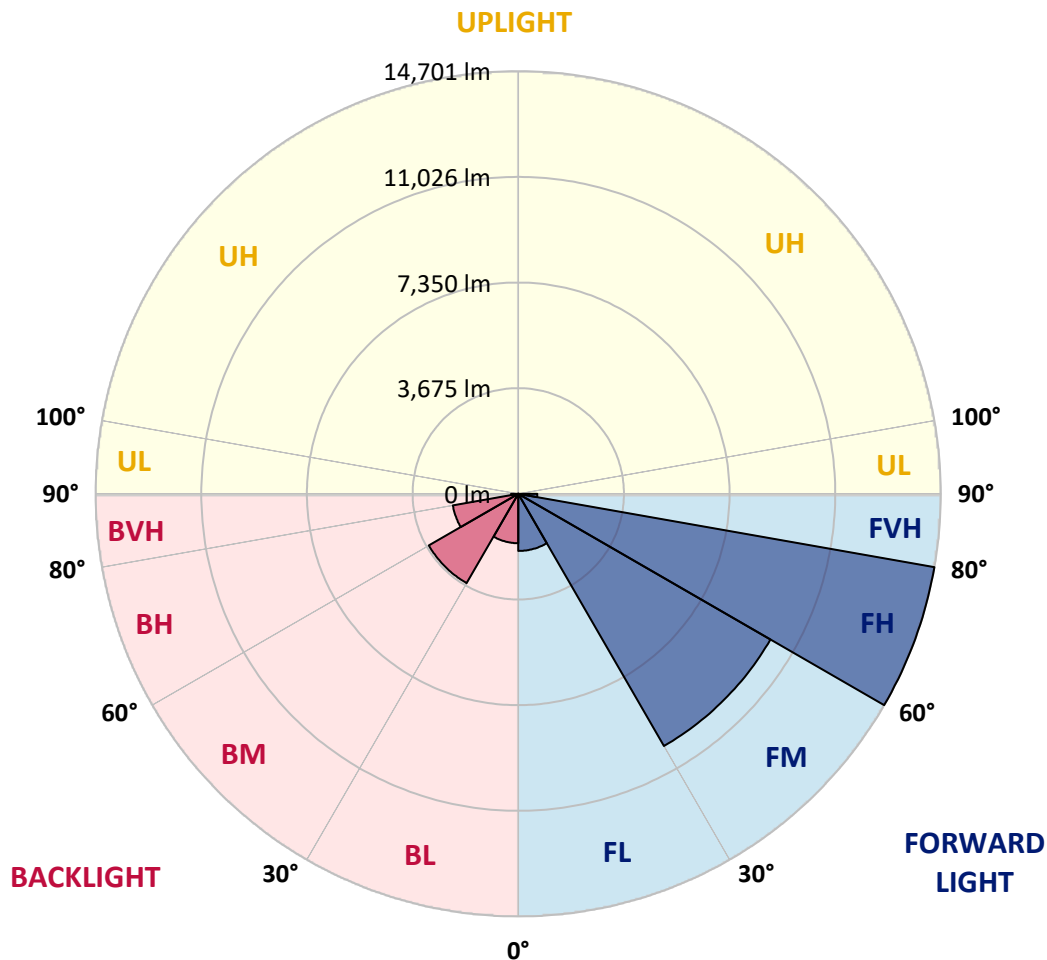


REPORT NUMBER: P574816
 CATALOG NUMBER: EPH-VN-04-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1986.8	5.6			
FM (30°-60°)	10130.6	28.7			
FH (60°-80°)	14700.8	41.6			G5
FVH (80°-90°)	664.0	1.9			G4/750
BL (0°-30°)	1718.3	4.9	B3/2500		
BM (30°-60°)	3591.4	10.2	B3/5000		
BH (60°-80°)	2311.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	248.3	0.7			G3/500
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: P574816
 CATALOG NUMBER: EPH-VN-04-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6
2.5°	3835.0	3857.9	3835.0	3831.2	3793.1	3766.4	3789.3	3754.9	3716.8	3701.6
5°	4185.7	4189.5	4147.6	4151.4	4071.4	3987.5	4002.7	3899.8	3789.3	3747.3
7.5°	4544.1	4502.1	4441.1	4422.1	4296.3	4204.8	4193.3	4101.9	3930.3	3835.0
10°	4776.6	4791.8	4692.7	4608.9	4502.1	4391.6	4387.8	4216.2	4117.1	3976.1
12.5°	4982.5	4986.3	4902.4	4769.0	4635.5	4498.3	4517.4	4441.1	4273.4	4140.0
15°	5142.6	5119.7	5028.2	4906.2	4765.2	4658.4	4647.0	4582.2	4441.1	4330.6
17.5°	5188.3	5176.9	5085.4	4955.8	4818.5	4738.5	4769.0	4662.2	4605.1	4505.9
20°	5100.6	5073.9	5058.7	4913.8	4814.7	4807.1	4780.4	4803.3	4708.0	4616.5
22.5°	4940.5	4929.1	4921.5	4807.1	4761.3	4795.7	4841.4	4875.7	4860.5	4772.8
25°	4776.6	4830.0	4780.4	4727.0	4791.8	4879.5	4868.1	4978.6	4978.6	4952.0
27.5°	4891.0	4856.7	4818.5	4791.8	4814.7	4952.0	4944.3	5077.8	5127.3	5077.8
30°	5176.9	5142.6	5032.0	4913.8	4883.3	5032.0	5070.1	5188.3	5211.2	5089.2
32.5°	5714.4	5695.3	5520.0	5173.1	4986.3	5070.1	5089.2	5222.6	5203.6	5127.3
35°	6511.1	6446.3	6202.3	5615.3	5203.6	5119.7	5070.1	5176.9	5249.3	5211.2
37.5°	7384.1	7311.7	7010.5	6267.1	5596.2	5253.1	5215.0	5302.7	5386.5	5367.5
40°	8219.0	8219.0	7948.3	7082.9	6179.5	5577.1	5584.8	5485.7	5561.9	5527.6
42.5°	9042.4	9011.9	8901.3	8039.8	6804.7	6118.5	5996.5	5748.7	5885.9	5874.5
45°	9877.2	9854.4	9823.9	8931.8	7700.5	6850.4	6785.6	6339.6	6465.4	6412.0
47.5°	10544.4	10571.0	10571.0	9926.8	8657.3	7826.3	7731.0	7025.8	7265.9	7292.6
50°	11112.4	11123.8	11112.4	10876.0	9724.7	8943.3	8748.8	8032.2	8272.3	8482.0
52.5°	11897.7	11912.9	11859.5	11768.0	11173.4	10117.4	9900.1	9103.4	9595.1	9816.2
55°	12865.9	12751.6	12652.5	12721.1	12564.8	11409.7	11184.8	10208.9	10948.4	11242.0
57.5°	13045.1	13144.2	13395.8	13941.0	14165.9	12667.7	12538.1	11566.0	12477.1	12732.5
60°	13677.9	13514.0	14131.6	15313.3	15564.9	14306.9	14173.5	13052.7	13998.1	14265.0
62.5°	14093.4	14085.8	15000.7	16403.6	16975.4	16007.1	15736.5	14985.5	15641.2	15900.4
65°	13971.5	14082.0	15706.0	17044.0	18153.4	17939.9	17783.6	16647.6	17512.9	17490.1
67.5°	12858.3	13170.9	15260.0	17505.3	19906.9	20295.8	20246.2	18984.4	19034.0	18549.8
70°	11314.4	11207.7	13373.0	17025.0	20783.7	23090.1	23078.6	20722.7	20402.5	18782.4
72°	8691.7	8573.5	10353.7	14619.5	20322.5	24207.0	24550.1	21927.4	20387.3	17817.9
72.5°	7891.1	7788.2	9560.8	13761.8	19811.6	24496.7	24336.6	21973.1	20227.2	17364.3
75°	3633.0	3514.8	4776.6	8424.8	15454.4	21706.3	22251.4	20562.6	17665.4	13822.8
77.5°	1082.6	1048.3	1536.3	3400.4	8981.4	15991.9	16201.6	15515.4	12332.2	7570.9
80°	602.3	606.1	792.9	1273.3	3949.4	9244.4	9999.2	9583.7	6049.8	2500.8
82.5°	335.5	354.5	495.6	754.8	1814.6	4242.9	4566.9	4403.0	2188.2	1174.1
85°	175.4	183.0	259.2	404.1	1029.3	1341.9	1380.0	1479.1	1136.0	800.5
87.5°	68.6	68.6	95.3	167.7	381.2	415.5	373.6	453.6	651.9	518.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574816

CATALOG NUMBER: EPH-VN-04-740-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3640.6	0°	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6	3640.6
3667.3	2.5°	3697.8	3667.3	3663.5	3613.9	3629.1	3587.2	3591.0	3583.4	3587.2	3579.6
3678.7	5°	3678.7	3655.8	3591.0	3633.0	3594.8	3648.2	3690.1	3674.9	3686.3	3682.5
3739.7	7.5°	3705.4	3674.9	3667.3	3644.4	3678.7	3701.6	3735.9	3831.2	3823.6	3835.0
3854.1	10°	3785.4	3751.1	3728.3	3762.6	3743.5	3815.9	3854.1	3903.6	3991.3	3995.1
4018.0	12.5°	3941.7	3918.9	3873.1	3880.7	3945.6	3968.4	3991.3	4021.8	4079.0	4067.5
4128.5	15°	4120.9	4071.4	4044.7	4037.0	4052.3	4079.0	4075.2	4105.7	4136.2	4162.8
4311.5	17.5°	4250.5	4185.7	4193.3	4231.5	4227.7	4220.0	4170.5	4155.2	4170.5	4185.7
4475.4	20°	4383.9	4391.6	4334.4	4300.1	4284.8	4208.6	4170.5	4124.7	4079.0	4101.9
4612.7	22.5°	4551.7	4517.4	4433.5	4330.6	4254.3	4208.6	4090.4	4010.4	4010.4	4033.2
4818.5	25°	4742.3	4669.9	4525.0	4338.2	4242.9	4048.5	3964.6	3953.2	3922.7	3957.0
4925.3	27.5°	4891.0	4826.2	4627.9	4311.5	4048.5	3892.2	3842.6	3827.4	3876.9	3880.7
4959.6	30°	4952.0	4932.9	4643.2	4242.9	3850.3	3598.7	3568.2	3636.8	3690.1	3770.2
5073.9	32.5°	5032.0	5039.6	4666.0	4082.8	3591.0	3339.4	3293.7	3377.5	3530.0	3594.8
5161.6	35°	5165.4	5203.6	4647.0	3884.6	3316.6	3076.4	3068.8	3091.6	3240.3	3354.7
5264.6	37.5°	5398.0	5390.4	4643.2	3648.2	3099.3	2847.7	2786.7	2794.3	2893.4	2988.7
5546.6	40°	5710.6	5680.1	4631.7	3339.4	2817.2	2653.2	2550.3	2512.2	2504.6	2477.9
5901.2	42.5°	6137.5	6076.5	4627.9	3026.8	2561.8	2386.4	2314.0	2214.8	2142.4	2005.2
6526.4	45°	6732.2	6625.5	4528.8	2733.3	2310.2	2165.3	2054.7	1982.3	1826.0	1654.5
7319.3	47.5°	7650.9	7304.0	4532.6	2409.3	2066.2	1948.0	1871.8	1746.0	1578.2	1441.0
8726.0	50°	9004.3	8211.3	4403.0	2153.9	1867.9	1787.9	1707.8	1563.0	1402.9	1307.6
10254.6	52.5°	10750.2	9564.6	4399.2	1925.1	1711.6	1654.5	1566.8	1437.2	1319.0	1258.0
12118.8	55°	12831.6	11356.3	4536.4	1738.3	1551.5	1521.0	1482.9	1376.2	1261.8	1208.4
14196.4	57.5°	14962.6	13106.1	4757.5	1604.9	1414.3	1437.2	1410.5	1326.6	1235.1	1174.1
16113.9	60°	16857.2	14493.7	4311.5	1444.8	1292.3	1341.9	1380.0	1307.6	1258.0	1254.2
18202.9	62.5°	18286.8	15088.4	3278.4	1322.8	1227.5	1319.0	1421.9	1467.7	1444.8	1475.3
19563.8	65°	18809.0	14730.1	2256.8	1258.0	1177.9	1372.4	1601.1	1585.8	1452.4	1395.2
20170.0	67.5°	18077.1	13277.6	1673.5	1181.8	1143.6	1482.9	1704.0	1513.4	1311.4	1303.7
18431.6	70°	15545.9	11253.4	1364.7	1101.7	1086.5	1421.9	1658.3	1402.9	1235.1	1185.6
15225.6	72°	12385.6	8764.1	1197.0	1044.5	995.0	1269.4	1551.5	1315.2	1170.3	1109.3
14223.1	72.5°	11306.8	8123.6	1174.1	1017.8	975.9	1235.1	1498.2	1288.5	1155.1	1101.7
8520.1	75°	6202.3	4159.0	1033.1	934.0	823.4	1067.4	1387.6	1208.4	1090.3	1014.0
3160.3	77.5°	2306.3	1612.5	892.0	827.2	712.9	922.5	1261.8	1147.5	991.2	895.9
1052.1	80°	884.4	850.1	728.1	697.6	598.5	808.2	1162.7	1029.3	842.5	747.2
575.6	82.5°	537.5	495.6	552.8	545.1	457.5	735.7	1094.1	964.5	747.2	606.1
308.8	85°	293.5	293.5	385.0	369.8	320.2	587.1	827.2	640.4	472.7	388.8
152.5	87.5°	129.6	152.5	205.9	194.4	175.4	331.7	404.1	339.3	236.4	160.1
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



<u>180°</u>
3640.6
3560.5
3686.3
3857.9
3949.4
4109.5
4151.4
4178.1
4136.2
4021.8
3972.2
3941.7
3774.0
3644.4
3419.5
2977.3
2485.5
2012.8
1654.5
1425.7
1319.0
1235.1
1204.6
1166.5
1227.5
1479.1
1425.7
1280.9
1162.7
1082.6
1059.8
1006.4
876.8
716.7
587.1
396.5
171.5
0.0

F REPORT)