

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: P574604

Luminaire Tested: **EPH-VN-04-730-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574604
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

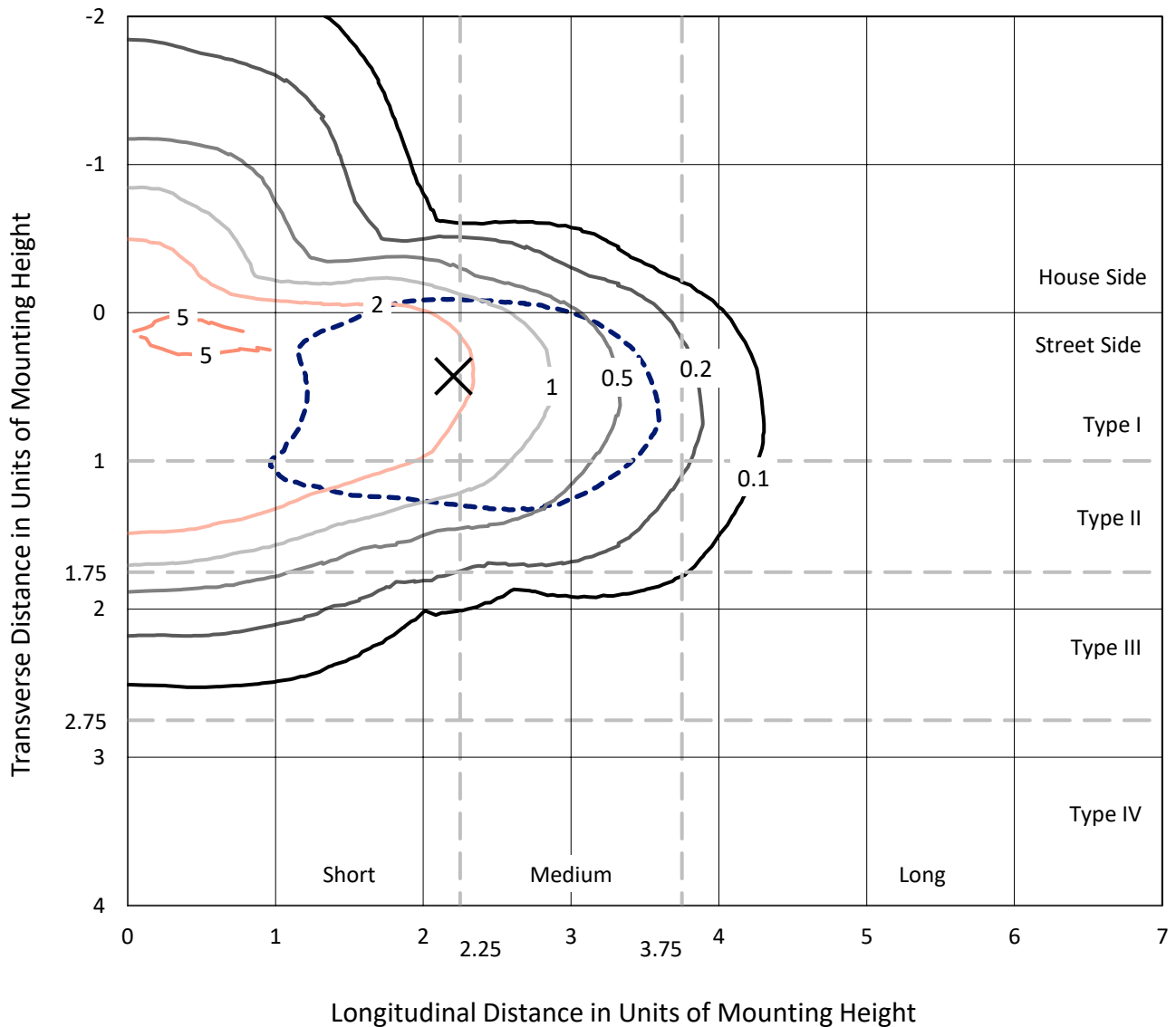
Lumens per Lamp: N/A
Luminaire Lumens: 31809.5 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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: P574604
 CATALOG NUMBER: EPH-VN-04-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

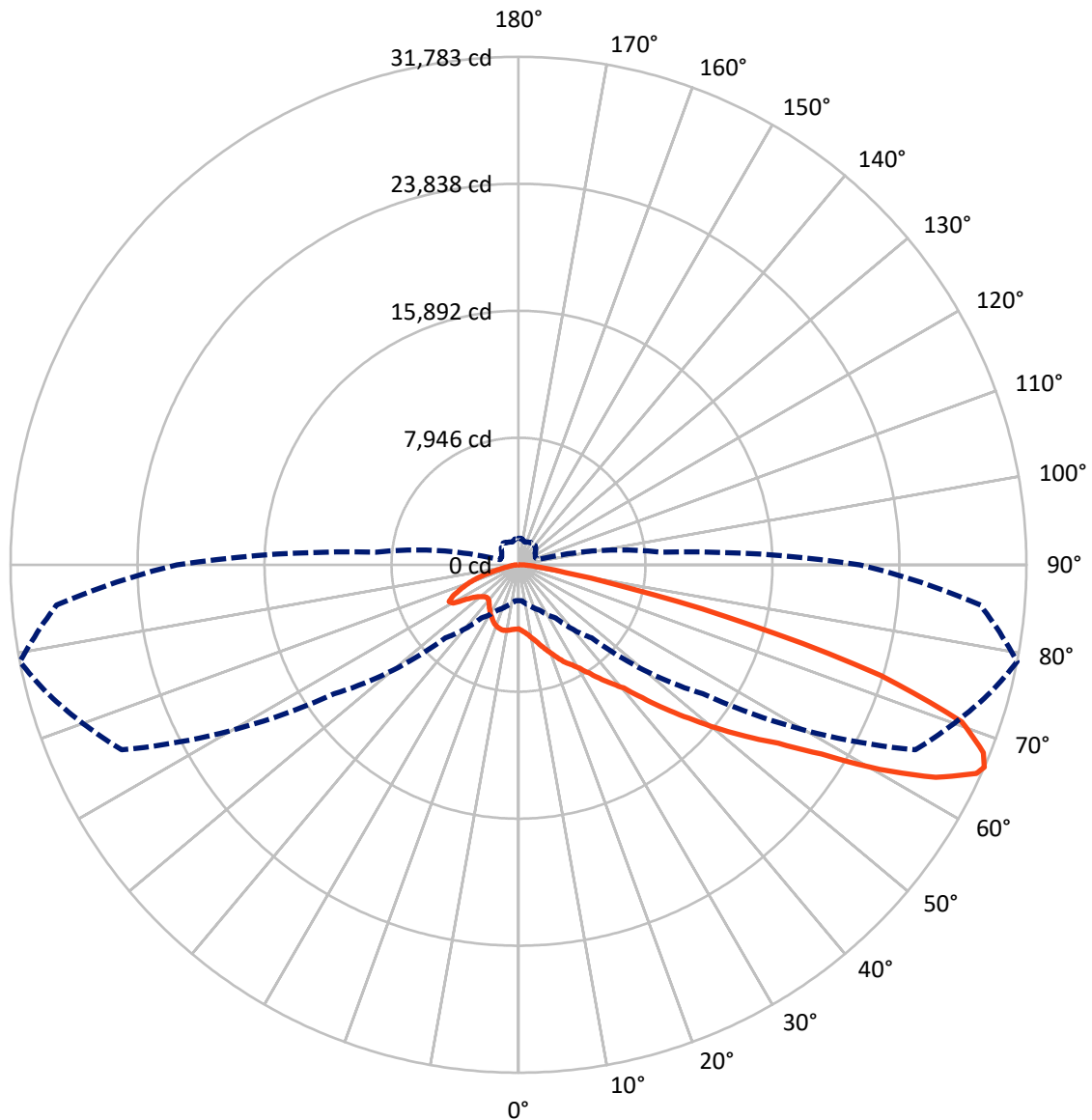
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P574604
CATALOG NUMBER: EPH-VN-04-730-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P574604

CATALOG NUMBER: EPH-VN-04-730-U-T2

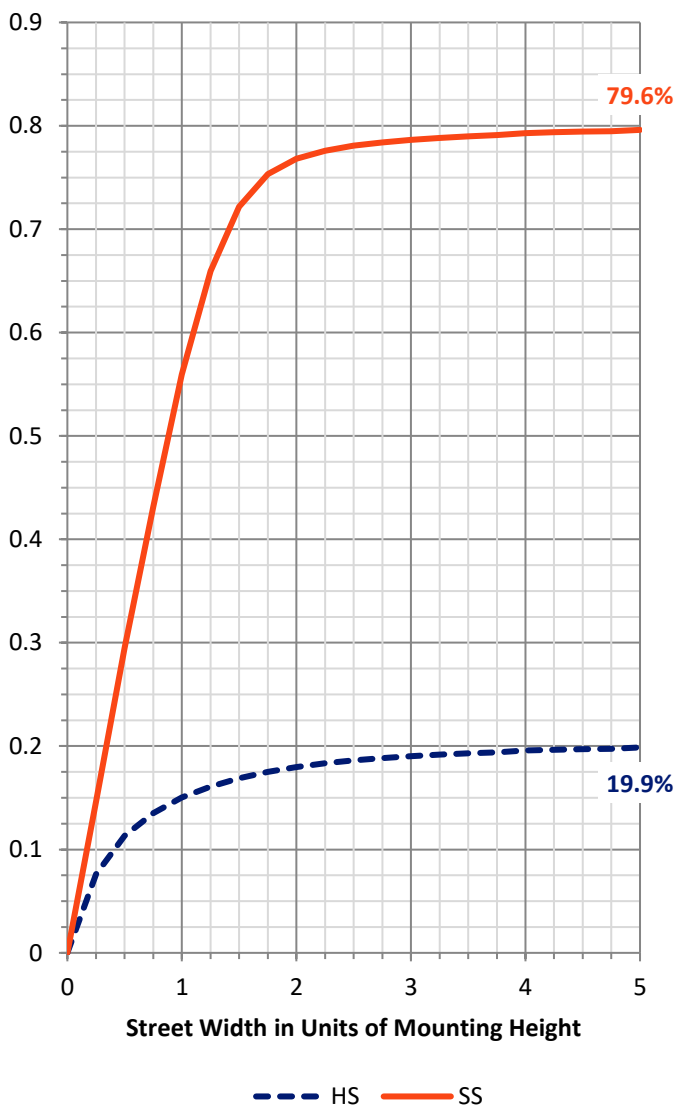
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6423.5	0.0	6423.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	25386.0	0.0	25386.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	31809.5	0.0	31809.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.0	1.2
10°-20°	1219.6	3.8
20°-30°	2093.5	6.6
30°-40°	3234.0	10.2
40°-50°	5180.1	16.3
50°-60°	7734.2	24.3
60°-70°	7946.9	25.0
70°-80°	3522.8	11.1
80°-90°	483.4	1.5
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°	31809.5	100.0
0°-180°	31809.5	100.0

Coefficient of Utilization

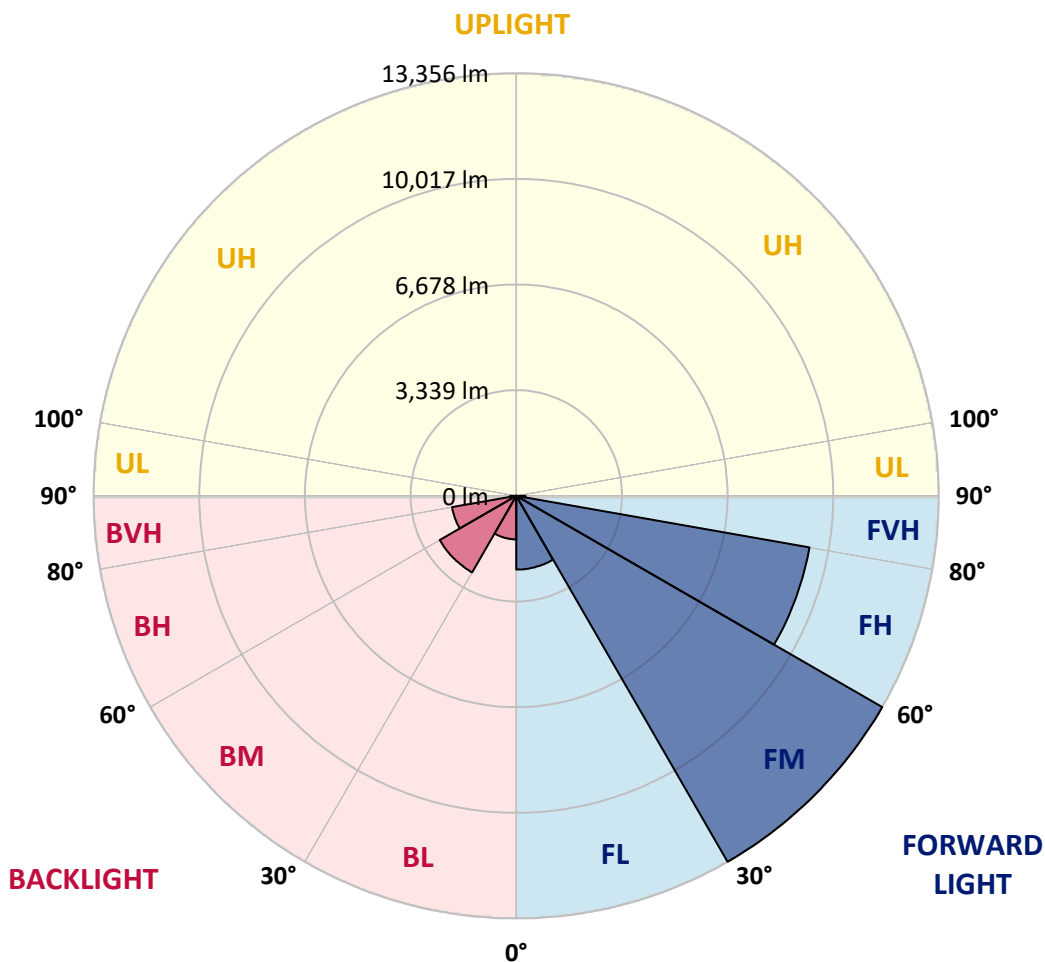


REPORT NUMBER: P574604
 CATALOG NUMBER: EPH-VN-04-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.8	7.3			
FM (30°-60°)	13355.7	42.0			
FH (60°-80°)	9408.5	29.6			G4/12000
FVH (80°-90°)	289.9	0.9			G3/500
BL (0°-30°)	1376.2	4.3	B3/2500		
BM (30°-60°)	2792.6	8.8	B3/5000		
BH (60°-80°)	2061.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	193.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





REPORT NUMBER: P574604
 CATALOG NUMBER: EPH-VN-04-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7
2.5°	4272.1	4275.6	4275.6	4261.6	4265.1	4275.6	4237.1	4153.1	4153.1	4139.1
5°	4534.5	4517.0	4492.5	4496.0	4482.0	4482.0	4440.0	4359.5	4289.6	4261.6
7.5°	4569.5	4587.0	4583.5	4625.5	4646.4	4646.4	4667.4	4601.0	4496.0	4429.5
10°	4639.4	4594.0	4590.5	4688.4	4719.9	4793.4	4877.4	4842.4	4754.9	4660.4
12.5°	4681.4	4709.4	4709.4	4758.4	4831.9	4940.3	5087.3	5153.8	5017.3	4919.4
15°	4744.4	4705.9	4817.9	4859.9	4999.8	5076.8	5286.7	5458.2	5367.2	5248.2
17.5°	4772.4	4747.9	4810.9	4887.9	5125.8	5241.2	5496.7	5734.6	5657.6	5580.6
20°	4915.9	4912.4	4940.3	5003.3	5174.8	5402.2	5720.6	6049.5	6077.5	5937.5
22.5°	5265.7	5220.3	5220.3	5195.8	5269.2	5503.7	5934.0	6388.9	6514.8	6350.4
25°	5587.6	5650.6	5612.1	5500.2	5472.2	5594.6	6088.0	6749.2	6917.2	6763.2
27.5°	6000.5	6021.5	6088.0	5937.5	5745.1	5783.6	6255.9	6952.2	7298.6	7092.1
30°	6595.3	6556.8	6542.8	6374.9	6123.0	6070.5	6448.3	7249.6	7798.9	7508.5
32.5°	6997.7	7092.1	7088.6	6857.7	6553.3	6437.8	6686.3	7529.5	8334.2	8064.8
35°	7795.4	7893.4	7816.4	7477.0	7120.1	6889.2	7029.1	7893.4	8946.5	8736.6
37.5°	8813.6	9044.5	8880.0	8253.7	7749.9	7498.0	7505.0	8288.7	9572.8	9401.4
40°	9516.8	9828.2	9600.8	9013.0	8477.7	8239.7	8145.3	8757.6	10321.5	10139.6
42.5°	10388.0	10646.9	10528.0	9947.2	9320.9	9118.0	8929.0	9541.3	11465.7	11381.7
45°	11339.7	11462.2	11423.7	11056.3	10360.0	10290.1	9873.7	10573.5	12812.7	12847.7
47.5°	12224.9	12291.4	12364.9	12099.0	11665.1	11724.6	10961.8	11679.1	14121.3	14352.2
50°	12452.3	12679.8	12851.2	13029.6	13124.1	13526.5	12161.9	13036.6	15625.8	16073.6
52.5°	12221.4	12203.9	12725.2	13285.1	14229.7	15073.0	13795.9	14723.1	16955.3	17840.5
55°	11171.8	11136.8	11976.5	12718.2	14562.1	15933.7	16129.6	16969.3	18561.3	19712.4
57.5°	9334.9	9118.0	10034.6	11252.2	13841.4	16028.1	18473.8	20303.7	21031.5	22343.5
60°	6273.4	6182.4	7060.6	8512.7	11238.2	14688.1	19876.9	24477.8	24512.8	25989.3
62.5°	3862.7	3880.2	4443.5	5531.7	7868.9	11644.1	19271.6	27812.2	27819.2	29299.2
65°	2526.2	2536.7	2991.5	3593.3	4915.9	7896.9	15937.2	28074.6	30117.9	31493.0
66°	2249.7	2253.2	2645.1	3135.0	4072.6	6462.3	14075.8	27392.3	30635.8	31783.4
67.5°	1896.4	1941.9	2256.7	2634.6	3176.9	4642.9	11168.3	25419.0	30369.8	31377.5
70°	1483.5	1508.0	1756.4	2141.3	2382.7	2687.1	6637.3	20720.1	27798.2	29432.2
72.5°	1189.6	1210.6	1399.5	1738.9	1934.9	1770.4	3614.3	15034.5	21958.7	23701.1
75°	1004.2	1007.7	1098.6	1368.0	1592.0	1329.6	1924.4	9649.8	14089.8	14901.5
77.5°	811.7	825.7	888.7	1042.7	1280.6	1046.2	1147.6	5405.7	7074.6	7134.1
80°	661.3	668.3	706.8	759.2	976.2	773.2	776.7	2638.1	3033.5	2963.5
82.5°	521.3	528.3	573.8	563.3	717.3	552.8	482.8	1270.1	1396.0	1368.0
85°	293.9	293.9	451.3	451.3	454.8	349.9	293.9	598.3	738.3	689.3
87.5°	94.5	98.0	136.5	143.5	227.4	157.4	143.5	223.9	349.9	307.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574604

CATALOG NUMBER: EPH-VN-04-730-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4016.7	0°	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7	4016.7
4114.6	2.5°	4100.6	4044.6	4020.2	3939.7	3918.7	3866.2	3841.7	3810.2	3799.7	3754.2
4188.1	5°	4132.1	4114.6	4016.7	3915.2	3838.2	3803.2	3750.7	3680.8	3673.8	3610.8
4356.0	7.5°	4265.1	4205.6	4034.2	3925.7	3771.7	3684.3	3568.8	3533.8	3488.3	3467.3
4562.5	10°	4471.5	4321.1	4065.6	3792.7	3603.8	3498.8	3414.9	3390.4	3393.9	3379.9
4768.9	12.5°	4618.5	4475.0	4013.2	3680.8	3435.9	3334.4	3327.4	3351.9	3390.4	3372.9
5010.3	15°	4828.4	4559.0	3974.7	3495.3	3299.4	3271.4	3267.9	3341.4	3337.9	3337.9
5335.7	17.5°	5024.3	4642.9	3834.7	3334.4	3155.9	3176.9	3201.4	3197.9	3232.9	3246.9
5605.1	20°	5272.7	4740.9	3638.8	3173.4	3047.5	3040.5	3037.0	3040.5	3075.5	3096.5
5909.5	22.5°	5489.7	4761.9	3474.3	3019.5	2918.0	2890.0	2844.5	2890.0	2872.5	2879.5
6322.4	25°	5678.6	4765.4	3239.9	2904.0	2788.6	2725.6	2690.6	2687.1	2655.6	2652.1
6556.8	27.5°	5836.0	4646.4	3033.5	2743.1	2634.6	2575.1	2571.6	2533.2	2452.7	2400.2
6833.2	30°	5958.5	4555.5	2890.0	2603.1	2498.2	2487.7	2456.2	2368.7	2263.7	2197.3
7344.0	32.5°	6175.4	4373.5	2694.1	2459.7	2407.2	2393.2	2319.7	2242.8	2144.8	2081.8
7777.9	35°	6336.4	4205.6	2564.6	2337.2	2312.7	2284.7	2221.8	2137.8	2109.8	2095.8
8243.2	37.5°	6518.3	4016.7	2407.2	2232.3	2256.7	2204.3	2130.8	2092.3	2190.3	2165.8
8971.0	40°	6808.7	3883.7	2253.2	2169.3	2193.8	2134.3	2039.8	2025.8	2148.3	2060.8
9905.2	42.5°	7340.5	3880.2	2158.8	2074.8	2092.3	2046.8	1962.8	1955.8	2004.8	1899.9
11073.8	45°	8001.8	4002.7	2088.8	2004.8	1990.8	1983.8	1955.8	1924.4	1882.4	1745.9
12375.4	47.5°	8792.6	4202.1	2074.8	1899.9	1917.4	1976.8	1941.9	1861.4	1752.9	1665.4
13823.9	50°	9751.2	4615.0	2039.8	1822.9	1854.4	1948.8	1920.9	1808.9	1710.9	1654.9
15149.9	52.5°	10811.4	5136.3	1994.3	1703.9	1773.9	1924.4	1938.4	1833.4	1689.9	1641.0
16944.8	55°	12060.5	5906.0	1941.9	1574.5	1679.4	1899.9	1938.4	1763.4	1661.9	1661.9
19684.4	57.5°	14527.1	7291.6	1833.4	1455.5	1595.5	1854.4	1882.4	1766.9	1665.4	1665.4
23935.5	60°	18144.9	9453.8	1627.0	1364.5	1515.0	1791.4	1840.4	1714.4	1627.0	1647.9
27434.3	62.5°	20975.5	10111.6	1452.0	1277.1	1434.5	1675.9	1784.4	1658.4	1581.5	1658.4
29036.8	65°	21580.8	9446.8	1273.6	1182.6	1322.6	1564.0	1703.9	1578.0	1515.0	1665.4
29015.8	66°	21363.9	8929.0	1210.6	1154.6	1273.6	1508.0	1654.9	1550.0	1480.0	1658.4
28358.0	67.5°	20398.2	8152.3	1140.6	1095.1	1207.1	1427.5	1599.0	1511.5	1424.0	1637.5
25964.8	70°	18298.9	6913.7	1021.7	990.2	1112.6	1294.6	1469.5	1413.5	1336.6	1508.0
20422.7	72.5°	14093.3	5524.7	895.7	899.2	1004.2	1158.1	1340.1	1301.6	1235.1	1322.6
12511.8	75°	8582.6	3530.3	780.2	787.2	874.7	1028.7	1217.6	1189.6	1109.1	1158.1
5783.6	77.5°	3803.2	1749.4	657.8	671.8	741.8	906.2	1060.1	1014.7	930.7	941.2
2351.2	80°	1476.5	829.2	535.3	552.8	598.3	724.3	878.2	836.2	762.7	748.7
1081.1	82.5°	710.3	461.8	412.9	419.9	437.4	577.3	755.7	703.3	605.3	542.3
507.3	85°	356.9	286.9	290.4	265.9	290.4	391.9	510.8	426.9	353.4	314.9
181.9	87.5°	143.5	143.5	143.5	122.5	129.5	185.4	237.9	160.9	147.0	87.5
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°
4016.7
3796.2
3603.8
3512.8
3358.9
3397.4
3334.4
3271.4
3079.0
2900.5
2652.1
2407.2
2197.3
2071.3
2106.3
2176.3
2039.8
1868.4
1710.9
1647.9
1644.5
1634.0
1654.9
1651.4
1644.5
1665.4
1672.4
1661.9
1606.0
1452.0
1287.6
1140.6
934.2
741.8
542.3
321.9
87.5
0.0

F REPORT)