

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: P574603

Luminaire Tested: **EPH-VN-03-730-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574603
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

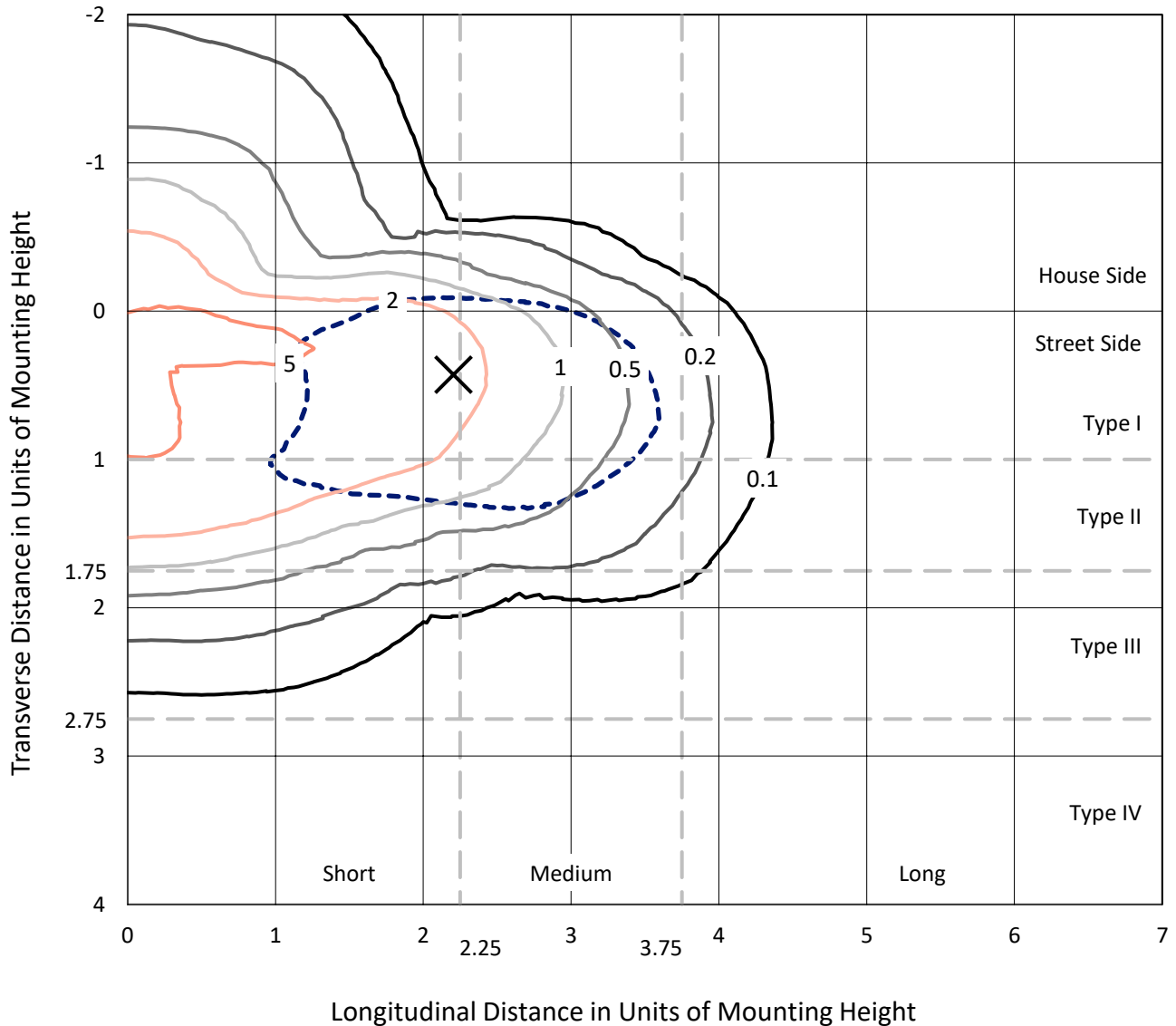
Lumens per Lamp: N/A
Luminaire Lumens: 24532.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
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: P574603
 CATALOG NUMBER: EPH-VN-03-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

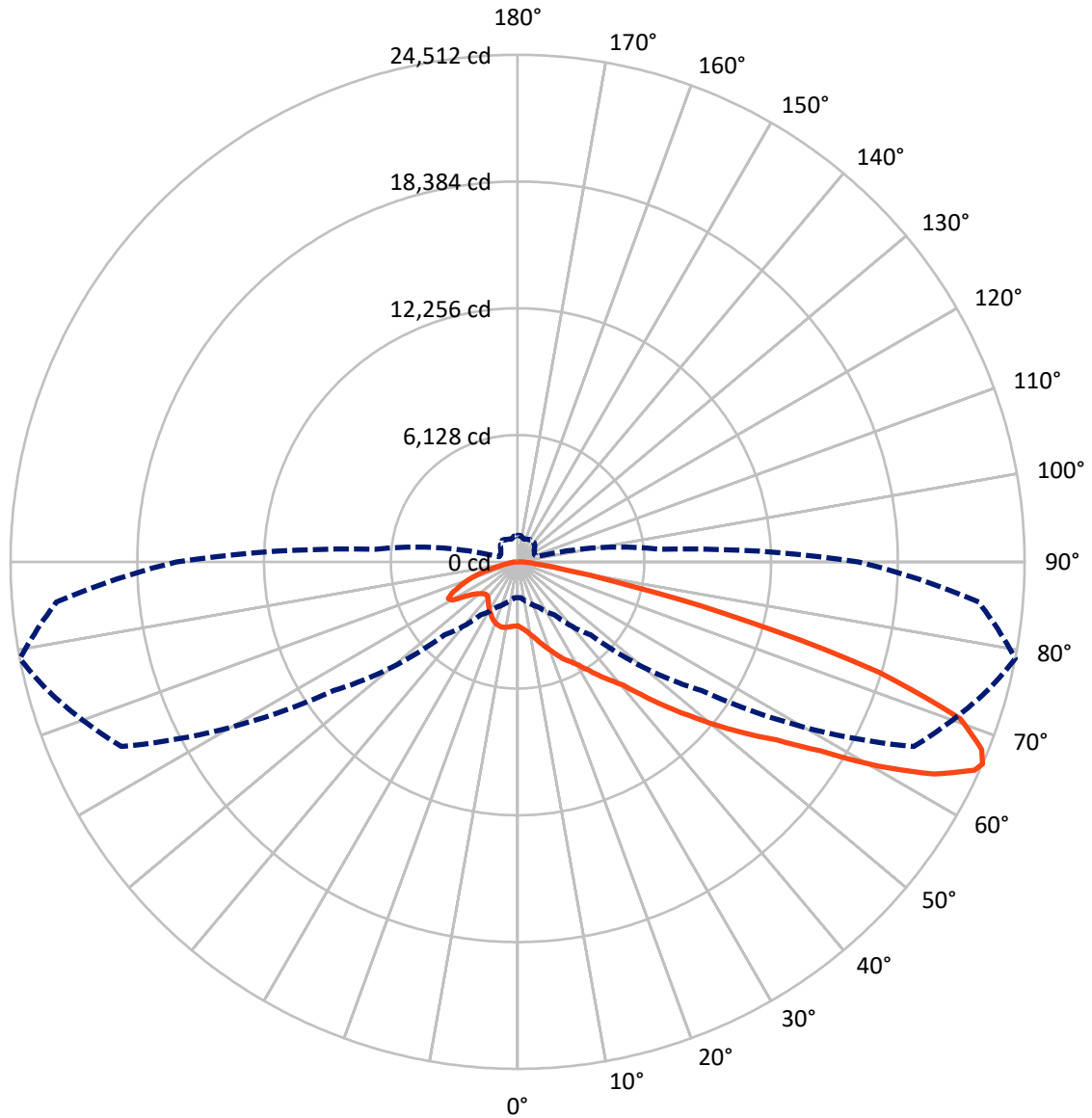
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

REPORT NUMBER: P574603
CATALOG NUMBER: EPH-VN-03-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P574603
 CATALOG NUMBER: EPH-VN-03-730-U-T2

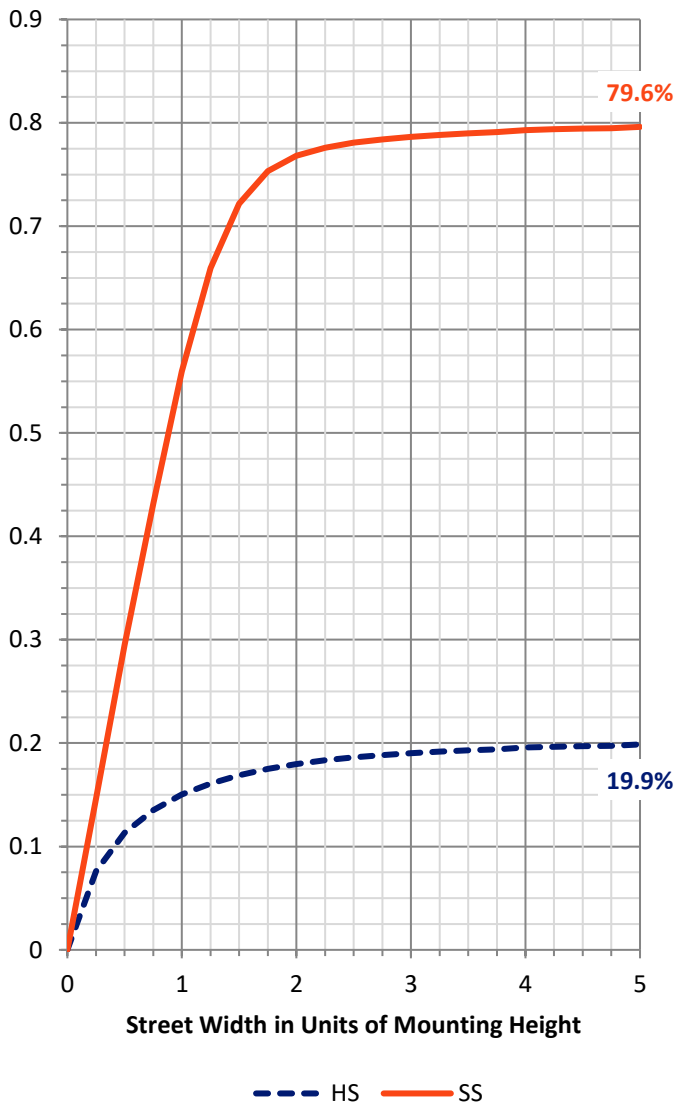
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4953.9	0.0	4953.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	19578.3	0.0	19578.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	24532.3	0.0	24532.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.6	1.2
10°-20°	940.6	3.8
20°-30°	1614.6	6.6
30°-40°	2494.2	10.2
40°-50°	3995.0	16.3
50°-60°	5964.8	24.3
60°-70°	6128.9	25.0
70°-80°	2716.8	11.1
80°-90°	372.8	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°	24532.3	100.0
0°-180°	24532.3	100.0



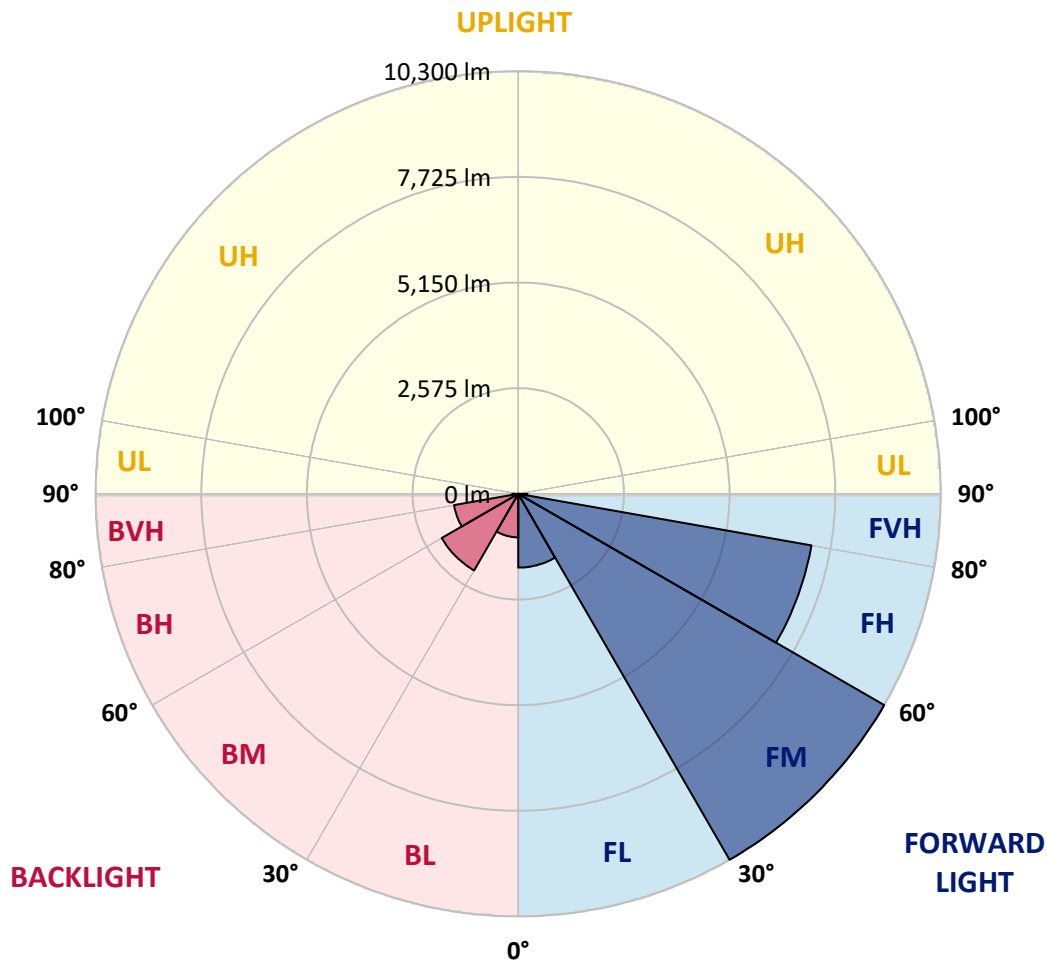
REPORT NUMBER: P574603
 CATALOG NUMBER: EPH-VN-03-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.4	7.3			
FM (30°-60°)	10300.3	42.0			
FH (60°-80°)	7256.1	29.6			G3/7500
FVH (80°-90°)	223.6	0.9			G2/225
BL (0°-30°)	1061.4	4.3	B3/2500		
BM (30°-60°)	2153.7	8.8	B2/2500		
BH (60°-80°)	1589.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	149.2	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-G3

Type II Short





REPORT NUMBER: P574603
 CATALOG NUMBER: EPH-VN-03-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7
2.5°	3294.7	3297.4	3297.4	3286.6	3289.3	3297.4	3267.7	3203.0	3203.0	3192.2
5°	3497.1	3483.6	3464.7	3467.4	3456.6	3456.6	3424.3	3362.2	3308.2	3286.6
7.5°	3524.1	3537.6	3534.9	3567.3	3583.5	3583.5	3599.6	3548.4	3467.4	3416.2
10°	3578.1	3543.0	3540.3	3615.8	3640.1	3696.8	3761.6	3734.6	3667.1	3594.3
12.5°	3610.4	3632.0	3632.0	3669.8	3726.5	3810.1	3923.5	3974.7	3869.5	3793.9
15°	3659.0	3629.3	3715.7	3748.1	3856.0	3915.4	4077.3	4209.5	4139.3	4047.6
17.5°	3680.6	3661.7	3710.3	3769.6	3953.1	4042.2	4239.2	4422.7	4363.3	4303.9
20°	3791.2	3788.5	3810.1	3858.7	3990.9	4166.3	4411.9	4665.5	4687.1	4579.2
22.5°	4061.1	4026.0	4026.0	4007.1	4063.8	4244.6	4576.5	4927.3	5024.4	4897.6
25°	4309.3	4357.9	4328.2	4241.9	4220.3	4314.7	4695.2	5205.2	5334.7	5216.0
27.5°	4627.7	4643.9	4695.2	4579.2	4430.8	4460.4	4824.7	5361.7	5628.8	5469.6
30°	5086.5	5056.8	5046.0	4916.5	4722.2	4681.7	4973.1	5591.1	6014.7	5790.7
32.5°	5396.8	5469.6	5466.9	5288.8	5054.1	4965.0	5156.6	5806.9	6427.6	6219.8
35°	6012.0	6087.6	6028.2	5766.5	5491.2	5313.1	5421.1	6087.6	6899.8	6737.9
37.5°	6797.2	6975.3	6848.5	6365.5	5976.9	5782.6	5788.0	6392.5	7382.8	7250.6
40°	7339.6	7579.8	7404.4	6951.0	6538.2	6354.7	6281.8	6754.1	7960.2	7819.9
42.5°	8011.5	8211.2	8119.4	7671.5	7188.5	7032.0	6886.3	7358.5	8842.6	8777.9
45°	8745.5	8839.9	8810.2	8526.9	7989.9	7936.0	7614.8	8154.5	9881.5	9908.5
47.5°	9428.2	9479.4	9536.1	9331.0	8996.4	9042.3	8454.0	9007.2	10890.7	11068.8
50°	9603.6	9779.0	9911.2	10048.8	10121.6	10432.0	9379.6	10054.2	12051.0	12396.4
52.5°	9425.5	9412.0	9814.0	10245.8	10974.3	11624.6	10639.7	11354.8	13076.4	13759.1
55°	8615.9	8589.0	9236.6	9808.6	11230.7	12288.5	12439.6	13087.2	14314.9	15202.7
57.5°	7199.3	7032.0	7739.0	8678.0	10674.8	12361.3	14247.5	15658.7	16220.0	17231.9
60°	4838.2	4768.0	5445.3	6565.2	8667.2	11327.8	15329.5	18877.9	18904.9	20043.6
62.5°	2979.0	2992.5	3427.0	4266.1	6068.7	8980.2	14862.7	21449.5	21454.9	22596.3
65°	1948.2	1956.3	2307.1	2771.2	3791.2	6090.3	12291.1	21651.9	23227.7	24288.2
66°	1735.1	1737.8	2040.0	2417.8	3140.9	4983.9	10855.6	21125.7	23627.1	24512.1
67.5°	1462.5	1497.6	1740.5	2031.9	2450.1	3580.8	8613.2	19603.8	23422.0	24199.1
70°	1144.1	1163.0	1354.6	1651.4	1837.6	2072.4	5118.8	15979.8	21438.7	22698.8
72.5°	917.5	933.6	1079.4	1341.1	1492.2	1365.4	2787.4	11595.0	16935.1	18278.9
75°	774.4	777.1	847.3	1055.1	1227.8	1025.4	1484.1	7442.1	10866.4	11492.4
77.5°	626.0	636.8	685.4	804.1	987.6	806.8	885.1	4169.0	5456.1	5502.0
80°	510.0	515.4	545.1	585.5	752.8	596.3	599.0	2034.6	2339.5	2285.5
82.5°	402.1	407.5	442.5	434.4	553.2	426.3	372.4	979.5	1076.7	1055.1
85°	226.7	226.7	348.1	348.1	350.8	269.8	226.7	461.4	569.4	531.6
87.5°	72.9	75.6	105.2	110.6	175.4	121.4	110.6	172.7	269.8	237.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574603

CATALOG NUMBER: EPH-VN-03-730-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3097.7	0°	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7
3173.3	2.5°	3162.5	3119.3	3100.4	3038.4	3022.2	2981.7	2962.8	2938.5	2930.4	2895.4
3230.0	5°	3186.8	3173.3	3097.7	3019.5	2960.1	2933.1	2892.7	2838.7	2833.3	2784.7
3359.5	7.5°	3289.3	3243.5	3111.2	3027.6	2908.9	2841.4	2752.4	2725.4	2690.3	2674.1
3518.7	10°	3448.5	3332.5	3135.5	2925.1	2779.3	2698.4	2633.6	2614.7	2617.4	2606.6
3677.9	12.5°	3561.9	3451.2	3095.0	2838.7	2649.8	2571.6	2566.2	2585.1	2614.7	2601.2
3864.1	15°	3723.8	3516.0	3065.4	2695.7	2544.6	2523.0	2520.3	2577.0	2574.3	2574.3
4115.0	17.5°	3874.9	3580.8	2957.4	2571.6	2433.9	2450.1	2469.0	2466.3	2493.3	2504.1
4322.8	20°	4066.5	3656.3	2806.3	2447.4	2350.3	2344.9	2342.2	2344.9	2371.9	2388.1
4557.6	22.5°	4233.8	3672.5	2679.5	2328.7	2250.5	2228.9	2193.8	2228.9	2215.4	2220.8
4876.0	25°	4379.5	3675.2	2498.7	2239.7	2150.6	2102.0	2075.1	2072.4	2048.1	2045.4
5056.8	27.5°	4500.9	3583.5	2339.5	2115.5	2031.9	1986.0	1983.3	1953.6	1891.6	1851.1
5269.9	30°	4595.4	3513.3	2228.9	2007.6	1926.6	1918.6	1894.3	1826.8	1745.9	1694.6
5663.9	32.5°	4762.7	3373.0	2077.8	1897.0	1856.5	1845.7	1789.0	1729.7	1654.1	1605.5
5998.5	35°	4886.8	3243.5	1977.9	1802.5	1783.6	1762.0	1713.5	1648.7	1627.1	1616.3
6357.4	37.5°	5027.1	3097.7	1856.5	1721.6	1740.5	1700.0	1643.3	1613.6	1689.2	1670.3
6918.7	40°	5251.1	2995.2	1737.8	1673.0	1691.9	1646.0	1573.2	1562.4	1656.8	1589.3
7639.1	42.5°	5661.2	2992.5	1664.9	1600.1	1613.6	1578.6	1513.8	1508.4	1546.2	1465.2
8540.4	45°	6171.2	3087.0	1610.9	1546.2	1535.4	1530.0	1508.4	1484.1	1451.7	1346.5
9544.2	47.5°	6781.0	3240.8	1600.1	1465.2	1478.7	1524.6	1497.6	1435.5	1351.9	1284.4
10661.3	50°	7520.4	3559.2	1573.2	1405.9	1430.1	1503.0	1481.4	1395.1	1319.5	1276.3
11684.0	52.5°	8338.0	3961.2	1538.1	1314.1	1368.1	1484.1	1494.9	1414.0	1303.3	1265.5
13068.3	55°	9301.3	4554.9	1497.6	1214.3	1295.2	1465.2	1494.9	1360.0	1281.7	1281.7
15181.1	57.5°	11203.7	5623.4	1414.0	1122.5	1230.5	1430.1	1451.7	1362.7	1284.4	1284.4
18459.7	60°	13993.8	7291.0	1254.7	1052.4	1168.4	1381.6	1419.4	1322.2	1254.7	1270.9
21158.0	62.5°	16176.8	7798.3	1119.8	984.9	1106.3	1292.5	1376.2	1279.0	1219.7	1279.0
22393.9	65°	16643.6	7285.6	982.2	912.1	1020.0	1206.2	1314.1	1217.0	1168.4	1284.4
22377.7	66°	16476.3	6886.3	933.6	890.5	982.2	1163.0	1276.3	1195.4	1141.4	1279.0
21870.4	67.5°	15731.6	6287.2	879.7	844.6	930.9	1100.9	1233.2	1165.7	1098.2	1262.8
20024.7	70°	14112.6	5332.0	787.9	763.6	858.1	998.4	1133.3	1090.1	1030.8	1163.0
15750.5	72.5°	10869.1	4260.8	690.8	693.5	774.4	893.2	1033.5	1003.8	952.5	1020.0
9649.4	75°	6619.1	2722.7	601.7	607.1	674.6	793.3	939.0	917.5	855.4	893.2
4460.4	77.5°	2933.1	1349.2	507.3	518.1	572.1	698.9	817.6	782.5	717.8	725.9
1813.3	80°	1138.7	639.5	412.9	426.3	461.4	558.6	677.3	644.9	588.2	577.5
833.8	82.5°	547.8	356.2	318.4	323.8	337.3	445.2	582.9	542.4	466.8	418.2
391.3	85°	275.2	221.3	224.0	205.1	224.0	302.2	394.0	329.2	272.5	242.9
140.3	87.5°	110.6	110.6	110.6	94.4	99.8	143.0	183.5	124.1	113.3	67.5
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°
3097.7
2927.7
2779.3
2709.2
2590.5
2620.1
2571.6
2523.0
2374.6
2237.0
2045.4
1856.5
1694.6
1597.4
1624.4
1678.4
1573.2
1440.9
1319.5
1270.9
1268.2
1260.1
1276.3
1273.6
1268.2
1284.4
1289.8
1281.7
1238.6
1119.8
993.0
879.7
720.5
572.1
418.2
248.3
67.5
0.0

F REPORT)