

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: P574776

Luminaire Tested: **EPH-VN-04-740-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574776
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-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

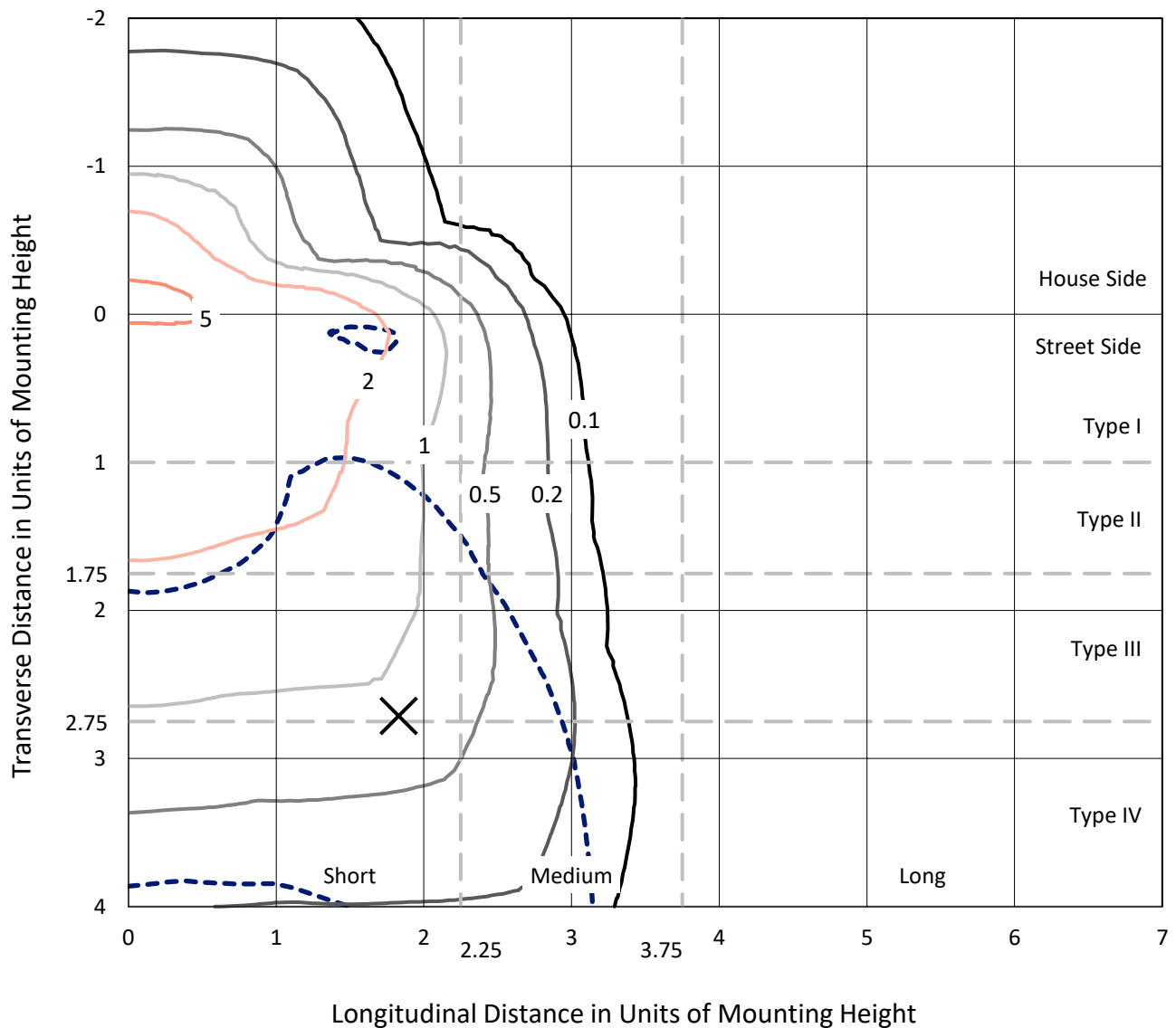
Lumens per Lamp: N/A
Luminaire Lumens: 35831.2 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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: P574776
 CATALOG NUMBER: EPH-VN-04-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

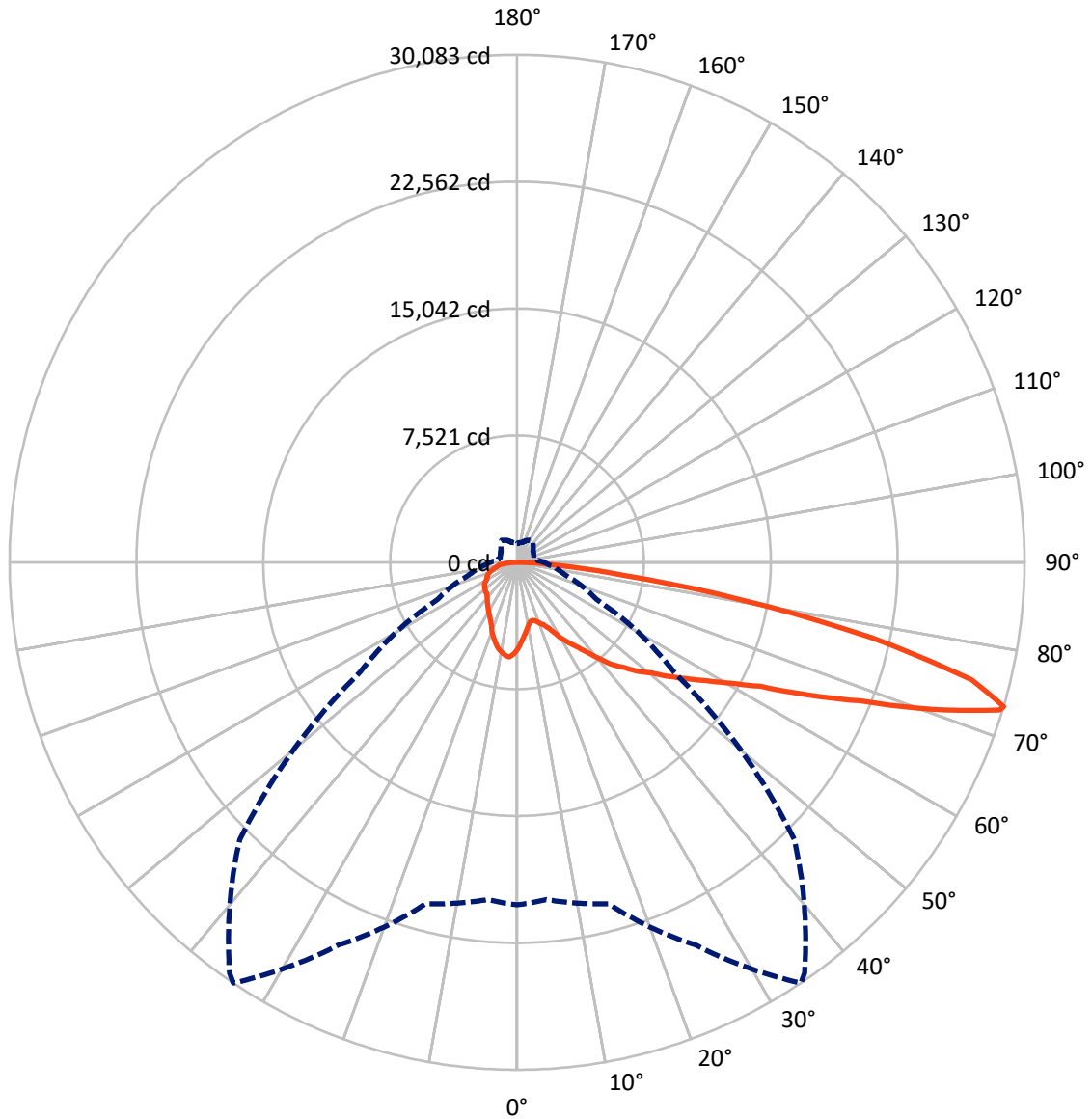
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

REPORT NUMBER: P574776
CATALOG NUMBER: EPH-VN-04-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P574776
 CATALOG NUMBER: EPH-VN-04-740-U-T4FT

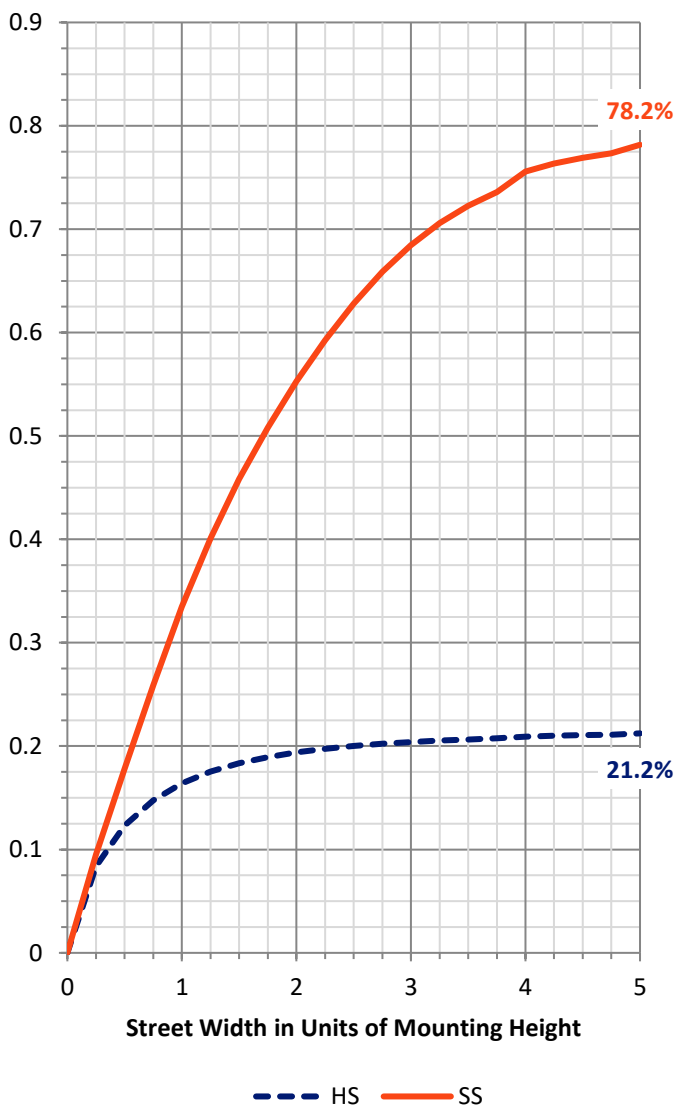
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7740.0	0.0	7740.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28091.3	0.0	28091.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	35831.2	0.0	35831.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.1	1.3
10°-20°	1326.9	3.7
20°-30°	2183.8	6.1
30°-40°	3265.9	9.1
40°-50°	4841.5	13.5
50°-60°	6977.1	19.5
60°-70°	8903.8	24.8
70°-80°	6928.6	19.3
80°-90°	929.5	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°	35831.2	100.0
0°-180°	35831.2	100.0

Coefficient of Utilization

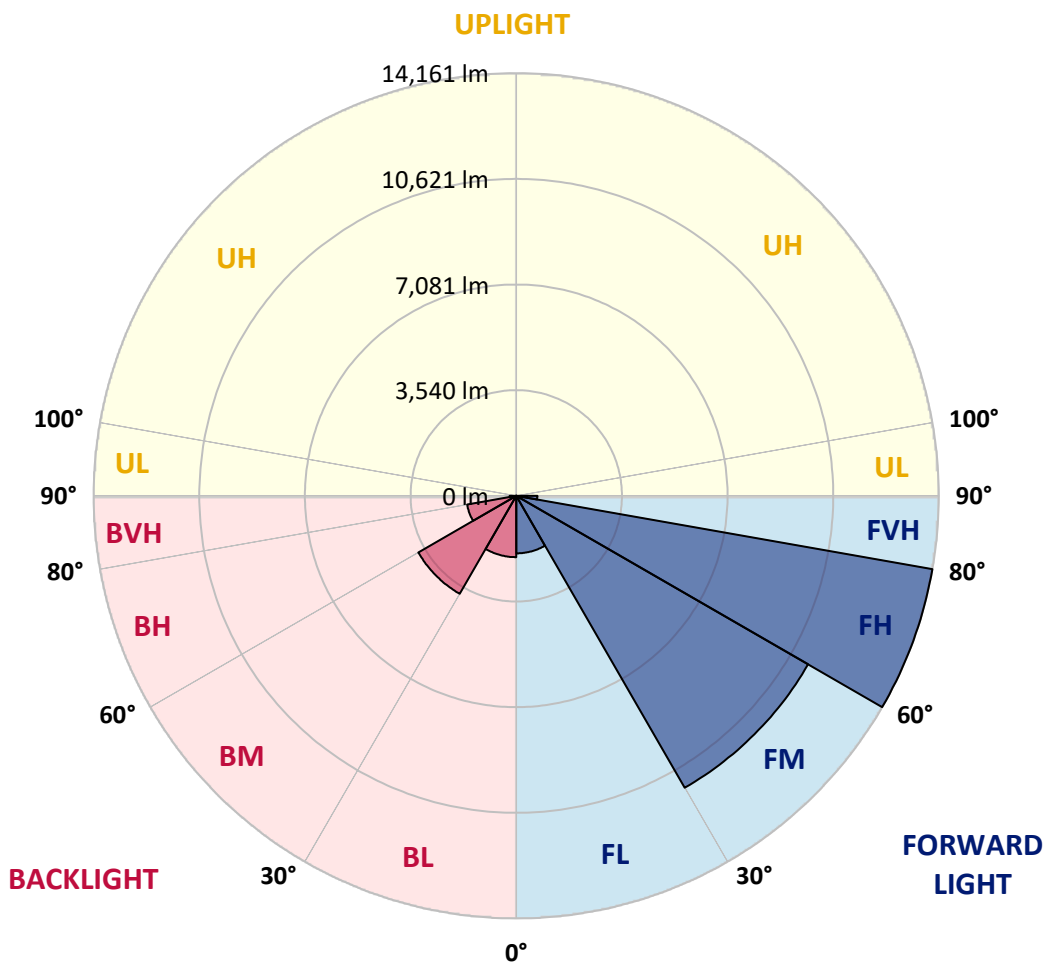


REPORT NUMBER: P574776
 CATALOG NUMBER: EPH-VN-04-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.3	5.4			
FM (30°-60°)	11294.2	31.5			
FH (60°-80°)	14161.2	39.5			G5
FVH (80°-90°)	707.5	2.0			G4/750
BL (0°-30°)	2056.5	5.7	B3/2500		
BM (30°-60°)	3790.3	10.6	B3/5000		
BH (60°-80°)	1671.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	222.0	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-G5
 Type IV Short





REPORT NUMBER: P574776
 CATALOG NUMBER: EPH-VN-04-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0
2.5°	4602.8	4618.0	4667.2	4678.6	4731.6	4701.3	4765.7	4879.4	4943.8	5038.5
5°	4239.1	4174.7	4205.0	4322.5	4383.1	4398.2	4466.4	4659.6	4780.9	4921.0
7.5°	3811.1	3799.7	3860.3	3936.1	4057.3	4068.7	4220.2	4390.7	4640.7	4951.3
10°	3519.4	3568.6	3602.7	3682.3	3765.6	3765.6	3958.8	4254.3	4538.4	4837.7
12.5°	3504.2	3473.9	3481.5	3523.1	3583.8	3659.5	3841.4	4106.5	4466.4	4815.0
15°	3553.5	3564.8	3496.6	3549.7	3572.4	3598.9	3799.7	4099.0	4421.0	4894.5
17.5°	3814.8	3750.4	3644.4	3595.1	3674.7	3674.7	3811.1	4045.9	4428.6	4936.2
20°	4019.4	4019.4	3845.2	3792.1	3848.9	3837.6	3932.3	4106.5	4466.4	5019.5
22.5°	4364.2	4413.4	4125.5	4015.6	4011.8	4042.1	4125.5	4273.2	4572.5	5137.0
25°	4860.4	4871.8	4538.4	4424.8	4303.5	4352.8	4367.9	4515.7	4667.2	5273.4
27.5°	5413.5	5405.9	5099.1	4815.0	4735.4	4746.8	4663.4	4761.9	4807.4	5315.0
30°	6027.2	5959.0	5728.0	5326.4	5262.0	5190.0	5008.2	5004.4	5099.1	5549.9
32.5°	6428.8	6341.7	6182.6	5894.6	5716.6	5724.2	5436.2	5432.5	5349.1	5807.5
35°	6822.8	6690.2	6648.5	6353.0	6175.0	6193.9	5962.8	5932.5	5781.0	6197.7
37.5°	7296.3	7178.9	7243.3	7019.8	6800.0	6709.1	6603.1	6565.2	6368.2	6747.0
40°	7819.1	7781.2	7739.6	7629.7	7497.1	7504.7	7391.0	7353.1	7061.4	7410.0
42.5°	8523.7	8379.8	8163.8	8235.8	8304.0	8376.0	8338.1	8239.6	7936.5	8084.3
45°	9179.1	8989.7	8591.9	8614.7	8895.0	8951.8	9410.2	9398.8	8788.9	8940.5
47.5°	9622.4	9535.2	9296.6	9270.0	9671.6	9667.8	10493.7	10493.7	9686.8	9792.8
50°	10281.5	10054.2	9951.9	10084.5	10289.1	10429.3	11599.9	11671.8	10569.4	10683.1
52.5°	11054.3	10770.2	10512.6	10853.6	11217.2	11308.2	12694.7	12664.4	11247.5	11717.3
55°	11694.6	11550.6	11372.6	11569.6	12164.3	12278.0	13793.3	13513.0	11925.7	12573.5
57.5°	12440.9	12528.0	12565.9	12516.6	13225.1	13403.1	15047.2	14244.1	12509.1	13149.3
60°	13566.0	13619.0	13668.3	13785.7	14535.8	14785.8	16039.8	15160.9	12876.5	13482.7
62.5°	15278.3	15073.8	15183.6	15589.0	16191.3	16475.4	17502.1	15804.9	13156.9	13683.4
65°	17236.9	16960.3	16846.7	17369.5	18930.3	18703.0	19328.0	16286.0	12751.5	12933.3
67.5°	19222.0	19252.3	18960.6	20009.9	21923.1	21923.1	21025.2	16517.1	11652.9	10482.3
70°	20797.9	20892.6	21051.7	23086.1	26116.7	26575.1	23127.7	15570.0	9414.0	6978.1
72.5°	20775.2	20491.1	21305.6	25052.2	29927.8	29545.2	23567.2	12312.1	5875.7	3417.1
73°	20309.2	20070.6	20960.8	25033.3	30083.1	29723.2	23245.2	11349.8	5182.4	2962.5
75°	16585.3	16153.4	17668.8	22673.1	27832.8	28109.4	19748.6	7402.4	2841.2	1826.0
77.5°	7561.5	7750.9	9724.6	15210.1	21449.5	21775.3	12982.6	3201.1	1557.0	1280.5
80°	2428.3	2549.5	3784.5	7561.5	13444.8	14032.0	6000.7	1454.7	1110.0	981.2
82.5°	928.1	924.4	1587.3	3144.3	6372.0	6747.0	2193.4	886.5	825.9	723.6
85°	325.8	340.9	598.6	1242.6	2507.9	2625.3	761.5	492.5	572.0	484.9
87.5°	113.6	117.4	212.1	450.8	863.7	913.0	212.1	197.0	284.1	280.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574776

CATALOG NUMBER: EPH-VN-04-740-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5137.0	0°	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0	5137.0
5152.1	2.5°	5190.0	5224.1	5235.5	5371.8	5371.8	5371.8	5424.9	5424.9	5409.7	5371.8
5133.2	5°	5212.7	5273.4	5390.8	5508.2	5538.5	5565.1	5637.0	5576.4	5599.1	5561.3
5201.4	7.5°	5277.1	5360.5	5580.2	5652.2	5602.9	5659.8	5584.0	5542.3	5500.7	5515.8
5216.5	10°	5387.0	5493.1	5595.4	5728.0	5633.2	5576.4	5421.1	5383.2	5250.6	5205.2
5280.9	12.5°	5523.4	5652.2	5826.4	5777.2	5595.4	5432.5	5265.8	5106.7	5027.1	4913.5
5390.8	15°	5659.8	5807.5	5834.0	5750.7	5523.4	5318.8	5015.7	4792.2	4712.7	4610.4
5549.9	17.5°	5807.5	5947.7	5902.2	5686.3	5379.4	5068.8	4724.0	4504.3	4337.6	4273.2
5728.0	20°	6027.2	6095.4	6023.4	5580.2	5205.2	4796.0	4462.6	4212.6	4045.9	4019.4
5898.4	22.5°	6197.7	6307.6	5985.6	5424.9	4951.3	4439.9	4057.3	3962.6	3913.3	3871.7
6091.6	25°	6417.4	6413.6	5917.4	5280.9	4515.7	4015.6	3784.5	3777.0	3754.2	3739.1
6368.2	27.5°	6625.8	6538.7	5837.8	4924.8	4064.9	3693.6	3568.6	3651.9	3686.0	3663.3
6750.8	30°	6955.4	6811.4	5724.2	4546.0	3667.1	3367.8	3390.6	3504.2	3561.0	3595.1
7084.2	32.5°	7303.9	7084.2	5489.3	4152.0	3314.8	3163.3	3216.3	3333.7	3401.9	3439.8
7633.5	35°	7807.7	7296.3	5250.6	3636.8	3061.0	3038.2	3068.5	3132.9	3231.4	3258.0
8383.6	37.5°	8429.0	7618.3	4928.6	3223.9	2864.0	2890.5	2920.8	2943.5	2947.3	2996.6
9103.4	40°	9050.3	7891.1	4458.9	2829.9	2659.4	2803.4	2788.2	2746.5	2712.4	2667.0
9906.5	42.5°	9595.8	8129.8	3936.1	2496.5	2477.6	2712.4	2663.2	2557.1	2477.6	2443.5
10819.5	45°	10209.5	8466.9	3409.5	2288.1	2337.4	2602.6	2587.4	2424.5	2322.2	2201.0
11800.6	47.5°	11005.1	8819.2	2905.6	2072.2	2204.8	2560.9	2568.5	2360.1	2212.4	2049.5
13084.9	50°	12024.2	9326.9	2523.0	1981.3	2125.3	2500.3	2511.7	2273.0	2079.8	1913.1
14588.8	52.5°	13001.5	9845.9	2204.8	1841.1	2072.2	2428.3	2454.8	2193.4	1969.9	1761.6
15312.4	55°	13494.0	9656.4	1932.0	1738.8	1951.0	2310.9	2409.4	2136.6	1803.2	1659.3
15736.7	57.5°	13603.9	9190.5	1716.1	1632.8	1848.7	2185.9	2333.6	1966.1	1727.5	1606.3
15770.8	60°	13244.0	8376.0	1545.6	1519.1	1719.9	2057.1	2159.3	1875.2	1651.7	1553.2
14657.0	62.5°	12357.5	7531.2	1428.2	1466.1	1610.0	1916.9	2049.5	1810.8	1579.7	1511.5
12429.5	65°	10133.8	6193.9	1333.5	1363.8	1496.4	1780.5	1981.3	1738.8	1515.3	1450.9
8716.9	67.5°	7019.8	4269.4	1257.7	1314.5	1405.5	1682.0	1913.1	1659.3	1432.0	1409.3
4765.7	70°	3595.1	2276.8	1159.2	1204.7	1307.0	1557.0	1791.9	1575.9	1344.9	1341.1
2185.9	72.5°	1822.2	1333.5	1045.6	1113.8	1185.7	1394.1	1640.3	1466.1	1235.0	1193.3
1943.4	73°	1575.9	1235.0	1026.6	1087.2	1155.4	1348.6	1594.9	1439.6	1219.8	1159.2
1367.6	75°	1147.9	973.6	920.6	981.2	1034.2	1216.1	1443.4	1318.3	1121.3	1056.9
1007.7	77.5°	860.0	750.1	765.2	833.4	878.9	1049.4	1284.2	1193.3	1015.3	928.1
753.9	80°	632.7	572.0	632.7	697.1	731.1	924.4	1170.6	1034.2	856.2	757.7
534.2	82.5°	450.8	416.7	488.7	530.4	545.5	765.2	1053.2	825.9	647.8	519.0
306.9	85°	257.6	253.8	329.6	325.8	337.2	447.0	693.3	549.3	416.7	318.2
155.3	87.5°	113.6	125.0	166.7	132.6	140.2	212.1	295.5	204.6	170.5	94.7
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°
5137.0
5462.8
5595.4
5462.8
5246.8
4943.8
4663.4
4273.2
3977.7
3818.6
3811.1
3693.6
3549.7
3481.5
3269.3
2977.6
2655.6
2386.6
2185.9
2026.8
1898.0
1772.9
1655.5
1591.1
1530.5
1462.3
1447.1
1379.0
1303.2
1132.7
1102.4
1003.9
905.4
738.7
477.3
310.6
72.0
0.0

F REPORT)