

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: EPHEBUS

Report Number: P575056

Luminaire Tested: **EPH-VN-04-740-U-SL4**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575056  
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-SL4  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

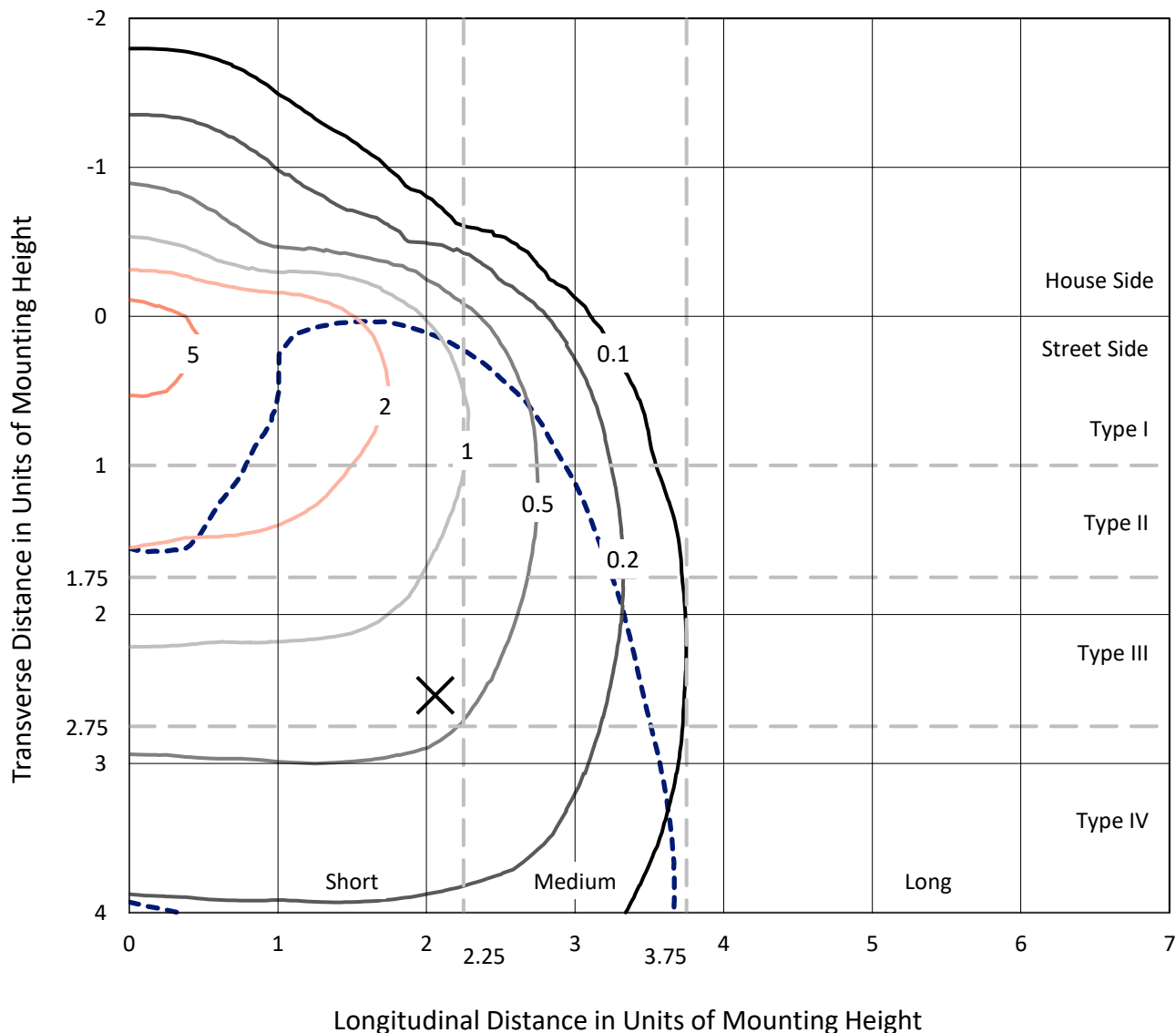
Lumens per Lamp: N/A  
Luminaire Lumens: 33830.3 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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: P575056  
 CATALOG NUMBER: EPH-VN-04-740-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

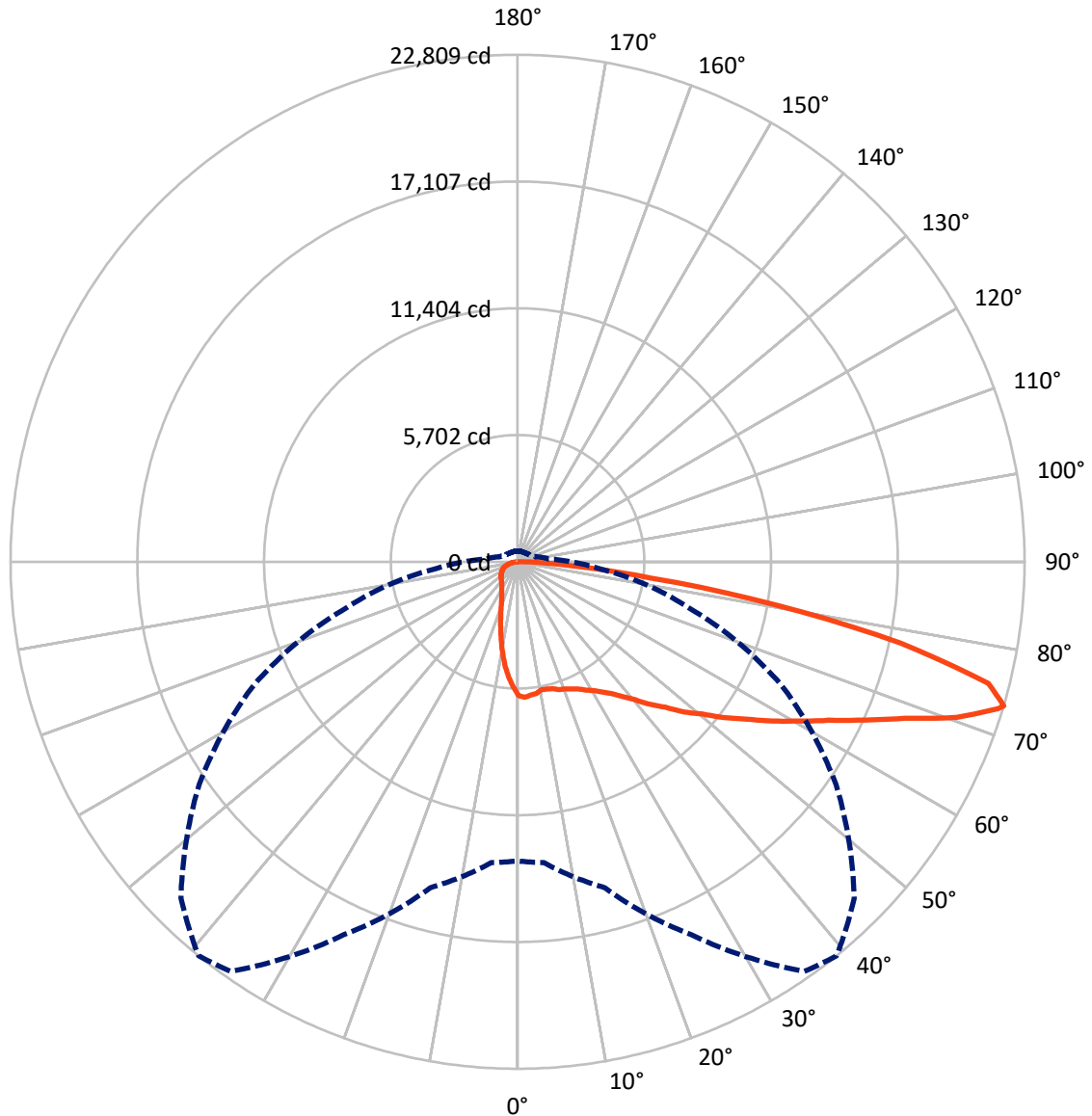
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P575056  
CATALOG NUMBER: EPH-VN-04-740-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P575056  
 CATALOG NUMBER: EPH-VN-04-740-U-SL4

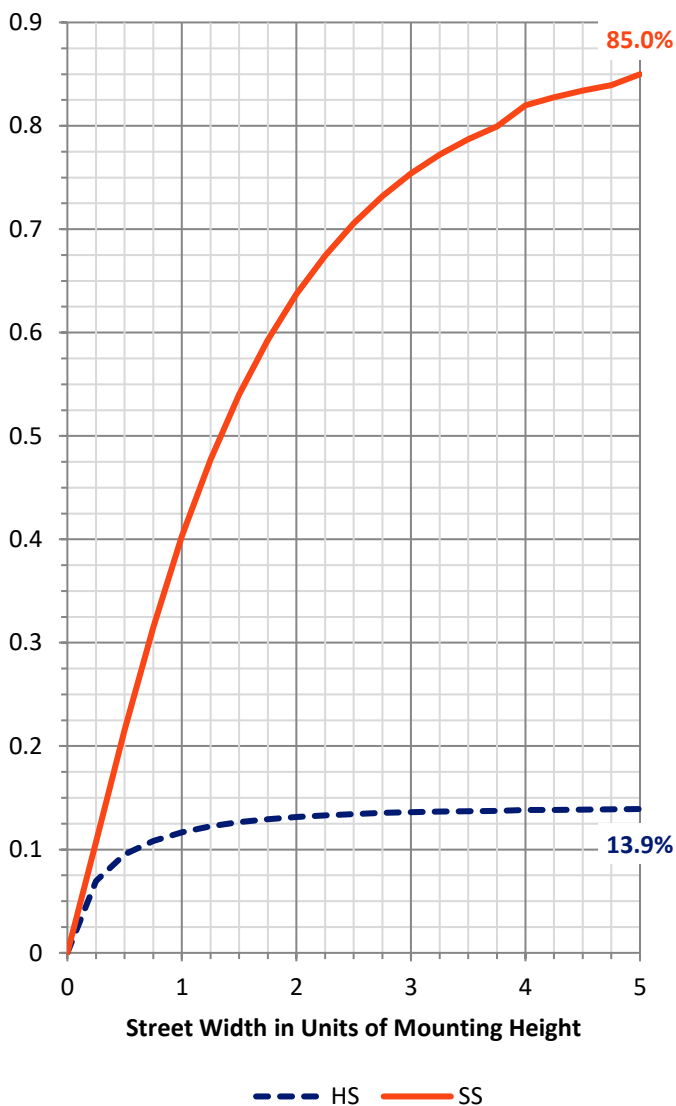
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4755.6	0.0	4755.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	29074.7	0.0	29074.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	33830.3	0.0	33830.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.8	1.5
10°-20°	1328.9	3.9
20°-30°	2030.7	6.0
30°-40°	2960.9	8.8
40°-50°	4474.2	13.2
50°-60°	6478.9	19.2
60°-70°	8231.7	24.3
70°-80°	6673.1	19.7
80°-90°	1129.1	3.3
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°	33830.3	100.0
0°-180°	33830.3	100.0

**Coefficient of Utilization**



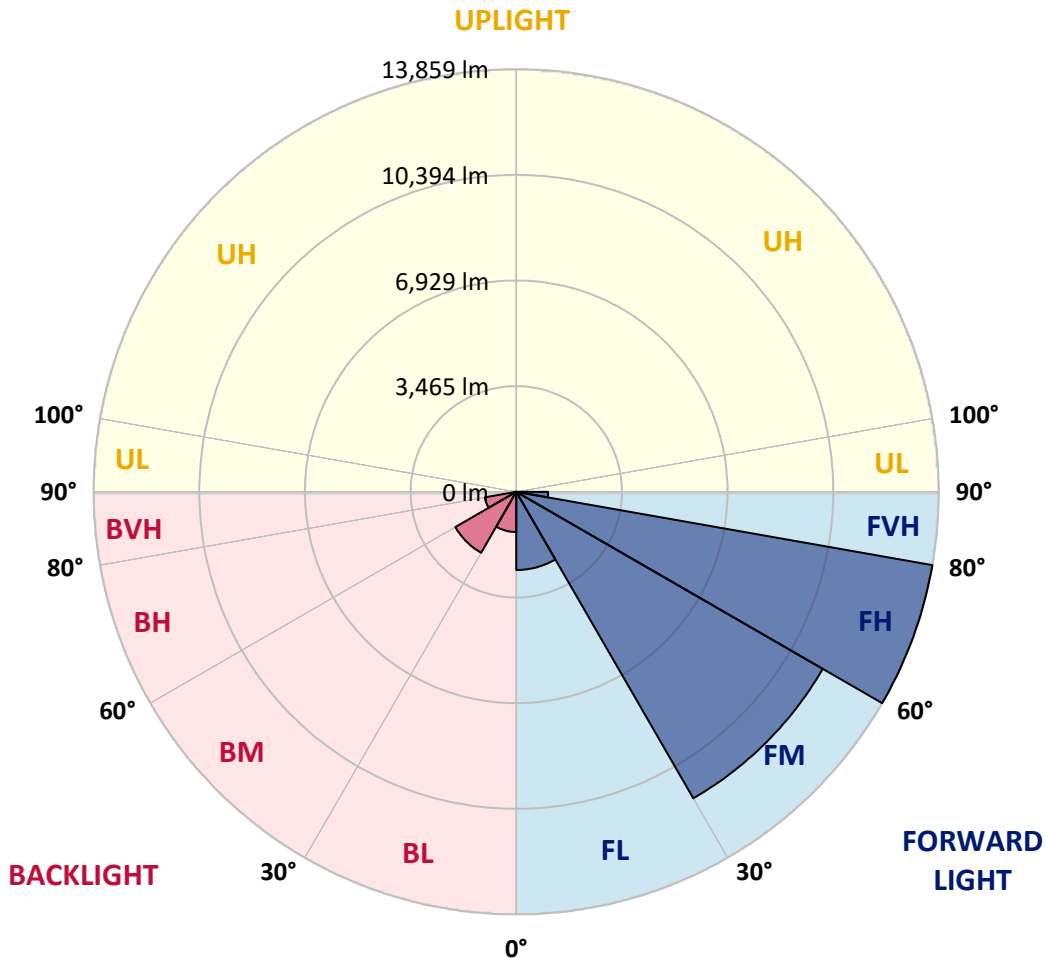
REPORT NUMBER: P575056  
 CATALOG NUMBER: EPH-VN-04-740-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2563.6	7.6			
FM (30°-60°)	11606.0	34.3			
FH (60°-80°)	13858.9	41.0			G5
FVH (80°-90°)	1046.2	3.1			G5
BL (0°-30°)	1318.8	3.9	B3/2500		
BM (30°-60°)	2308.0	6.8	B2/2500		
BH (60°-80°)	1045.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	82.8	0.2			G1/100
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: P575056  
 CATALOG NUMBER: EPH-VN-04-740-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0
2.5°	6165.8	6101.5	6112.8	6090.1	6112.8	6105.3	6093.9	6037.1	6093.9	6037.1
5°	6082.6	6082.6	6120.4	6063.6	6071.2	6033.4	6071.2	6029.6	5991.7	5897.1
7.5°	6056.1	6052.3	6056.1	5976.6	6014.4	5991.7	5953.9	5908.4	5832.7	5772.2
10°	5874.4	5912.2	5870.6	5893.3	5923.6	5855.5	5851.7	5840.3	5806.3	5726.8
12.5°	5776.0	5840.3	5863.0	5844.1	5870.6	5878.2	5855.5	5840.3	5798.7	5745.7
15°	5817.6	5741.9	5806.3	5931.2	5904.7	5923.6	5927.4	5912.2	5893.3	5794.9
17.5°	5829.0	5783.5	5919.8	5946.3	5980.4	6048.5	6003.1	5999.3	5927.4	5859.2
20°	5855.5	5836.5	5946.3	6086.3	6090.1	6101.5	6124.2	6067.4	6029.6	5912.2
22.5°	5953.9	6018.2	6120.4	6181.0	6215.0	6222.6	6222.6	6109.1	6067.4	5972.8
25°	6249.1	6181.0	6324.8	6396.7	6347.5	6336.2	6309.7	6207.5	6162.0	6078.8
27.5°	6464.8	6461.1	6544.3	6642.7	6510.3	6536.8	6442.1	6411.9	6309.7	6264.2
30°	6760.1	6843.4	6839.6	6869.8	6695.7	6726.0	6604.9	6548.1	6491.3	6517.8
32.5°	7138.6	7108.3	7157.5	7134.8	6960.7	6987.2	6843.4	6756.3	6775.2	6854.7
35°	7380.8	7350.5	7369.5	7369.5	7316.5	7286.2	7225.6	7112.1	7202.9	7350.5
37.5°	7642.0	7679.8	7789.6	7766.9	7698.8	7698.8	7691.2	7611.7	7729.1	8092.4
40°	7872.9	7975.1	8043.2	8088.6	8168.1	8168.1	8232.5	8187.0	8399.0	8981.9
42.5°	8115.1	8118.9	8489.8	8523.9	8701.8	8777.5	8826.7	8864.6	9262.0	9913.0
45°	8425.5	8444.4	8769.9	9031.1	9307.4	9333.9	9519.4	9644.3	10132.6	10931.2
47.5°	8834.3	8811.6	9159.8	9576.2	9920.6	10102.3	10325.6	10461.9	11063.7	12036.4
50°	9371.8	9303.6	9504.2	10159.0	10564.0	10764.7	11162.1	11389.2	12093.2	13092.5
52.5°	10026.6	9913.0	10072.0	10787.4	11241.6	11646.6	12025.1	12278.7	13013.0	13910.0
55°	10719.2	10484.6	10530.0	11453.5	12108.3	12490.6	13009.2	13274.1	14023.6	14644.3
57.5°	11404.3	11256.7	11165.9	12093.2	13141.7	13508.8	13985.7	14330.2	14966.0	15295.3
60°	11979.7	11941.8	11794.2	13084.9	14235.5	14549.7	15049.3	15261.3	15742.0	15897.2
62.5°	12452.8	12324.1	12558.8	13883.5	15348.3	15704.1	16253.0	16271.9	16612.5	16271.9
65°	12823.7	12831.3	13206.0	14848.7	16635.3	17161.4	17604.2	17555.0	17335.5	16048.6
67.5°	13160.6	13304.4	13853.2	15908.5	18289.3	18785.2	19277.2	18626.2	17532.3	15003.9
70°	13425.5	13569.4	14727.6	17199.2	20238.6	20965.3	21075.1	19050.1	16627.7	12710.2
72.5°	13395.3	13656.4	15223.4	18228.8	21968.4	22596.7	21711.0	17857.8	13853.2	8860.8
73°	13459.6	13588.3	15181.8	18516.4	22494.5	22808.7	21415.8	17483.1	13066.0	7948.6
75°	12218.1	12653.4	14428.6	18047.1	21930.5	21873.7	19720.1	14568.6	9288.5	4174.9
77.5°	9038.7	9315.0	11370.3	14841.1	18001.6	17638.3	14875.2	9311.2	4409.6	1548.1
80°	4417.1	4632.9	6025.8	8569.3	11771.5	11801.8	9231.7	4844.9	1888.7	874.3
82.5°	2206.7	2335.4	2895.6	3766.1	5791.1	6067.4	4682.1	2755.5	1169.6	495.8
85°	1442.1	1532.9	1782.8	1843.3	2456.5	2592.8	2180.2	2149.9	760.8	268.7
87.5°	957.6	972.8	1093.9	931.1	984.1	946.3	1052.2	1355.0	223.3	113.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575056

CATALOG NUMBER: EPH-VN-04-740-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6022.0	0°	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0	6022.0
6022.0	2.5°	6003.1	5950.1	5893.3	5813.8	5757.0	5670.0	5590.5	5556.4	5548.9	5552.7
5870.6	5°	5847.9	5772.2	5658.6	5495.9	5401.3	5257.4	5136.3	5072.0	5003.8	5015.2
5685.1	7.5°	5632.1	5548.9	5374.8	5185.5	4950.8	4746.4	4632.9	4473.9	4383.1	4314.9
5673.8	10°	5564.0	5420.2	5159.0	4897.8	4534.5	4265.7	4004.6	3822.9	3698.0	3576.9
5594.3	12.5°	5529.9	5386.1	5022.7	4636.7	4167.3	3758.5	3391.4	3168.1	2990.2	2884.2
5696.5	15°	5499.7	5321.8	4894.1	4349.0	3822.9	3285.4	2872.8	2577.6	2407.3	2305.1
5715.4	17.5°	5541.3	5287.7	4704.8	4068.9	3444.4	2869.1	2411.1	2104.5	1930.4	1866.0
5692.7	20°	5499.7	5249.9	4519.3	3788.8	3065.9	2471.6	2032.6	1779.0	1657.8	1604.9
5798.7	22.5°	5514.8	5159.0	4326.3	3478.5	2713.9	2138.5	1779.0	1585.9	1491.3	1464.8
5847.9	25°	5586.7	5106.0	4133.3	3137.8	2365.6	1892.5	1616.2	1468.6	1400.5	1374.0
5934.9	27.5°	5639.7	5151.4	3959.2	2816.1	2070.4	1673.0	1480.0	1381.5	1336.1	1317.2
6192.3	30°	5772.2	5177.9	3788.8	2528.4	1828.2	1529.2	1385.3	1305.8	1275.6	1264.2
6544.3	32.5°	5969.0	5227.1	3592.0	2263.5	1650.3	1392.9	1309.6	1241.5	1233.9	1222.6
6938.0	35°	6290.7	5397.5	3372.5	2036.4	1480.0	1302.1	1230.1	1184.7	1184.7	1184.7
7566.3	37.5°	6752.5	5635.9	3175.6	1820.6	1370.2	1222.6	1162.0	1146.9	1139.3	1150.7
8334.7	40°	7346.8	5923.6	3016.7	1650.3	1275.6	1169.6	1116.6	1109.0	1105.2	1101.4
9156.0	42.5°	7997.8	6290.7	2880.4	1517.8	1207.4	1112.8	1075.0	1067.4	1052.2	1059.8
10049.3	45°	8645.0	6744.9	2759.3	1411.8	1162.0	1082.5	1029.5	1025.7	1018.2	1014.4
11025.8	47.5°	9364.2	7191.6	2721.4	1347.5	1127.9	1037.1	999.3	995.5	972.8	969.0
11695.8	50°	9924.4	7520.9	2763.1	1317.2	1078.7	1003.0	976.5	957.6	938.7	919.8
12191.6	52.5°	10310.4	7748.0	2793.4	1294.5	1052.2	957.6	923.5	916.0	897.1	878.1
12687.5	55°	10658.7	7884.2	2800.9	1298.3	1025.7	904.6	881.9	878.1	866.8	836.5
13107.6	57.5°	10776.0	7827.5	2649.5	1264.2	1010.6	870.6	840.3	847.8	832.7	806.2
13115.2	60°	10764.7	7433.8	2305.1	1218.8	976.5	832.7	794.9	817.6	817.6	787.3
12729.1	62.5°	10109.8	6525.4	1884.9	1131.7	938.7	794.9	753.2	787.3	798.6	779.7
11816.9	65°	8751.0	5314.2	1574.6	1044.7	881.9	753.2	711.6	749.4	768.4	760.8
10034.1	67.5°	7240.8	4065.1	1309.6	931.1	810.0	696.4	662.4	688.9	700.2	704.0
7570.1	70°	5117.4	2706.3	1093.9	806.2	711.6	635.9	598.0	601.8	598.0	609.4
4417.1	72.5°	2782.0	1559.4	889.5	685.1	613.2	552.6	526.1	507.2	507.2	503.4
3735.8	73°	2380.8	1400.5	847.8	666.2	586.7	537.5	507.2	492.1	492.1	488.3
1809.2	75°	1336.1	1025.7	726.7	571.5	507.2	469.3	446.6	423.9	420.1	420.1
976.5	77.5°	878.1	798.6	579.1	458.0	408.8	374.7	367.1	344.4	344.4	344.4
666.2	80°	658.6	628.3	446.6	348.2	314.2	287.7	280.1	265.0	261.2	246.0
378.5	82.5°	439.1	495.8	325.5	246.0	212.0	196.8	196.8	193.0	181.7	162.8
306.6	85°	348.2	405.0	234.7	151.4	124.9	106.0	109.8	106.0	102.2	83.3
83.3	87.5°	64.3	162.8	68.1	41.6	30.3	18.9	18.9	11.4	7.6	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°
6022.0
5514.8
4984.9
4352.8
3629.9
2925.8
2316.4
1850.9
1593.5
1472.4
1381.5
1313.4
1260.4
1226.4
1196.1
1158.2
1109.0
1071.2
1033.3
984.1
919.8
870.6
828.9
802.4
783.5
775.9
757.0
707.8
609.4
503.4
484.5
420.1
340.7
249.8
162.8
79.5
0.0
0.0

F REPORT)