

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: P574968

Luminaire Tested: **EPH-VN-08-730-U-SL2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574968  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-730-U-SL2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50614.5 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

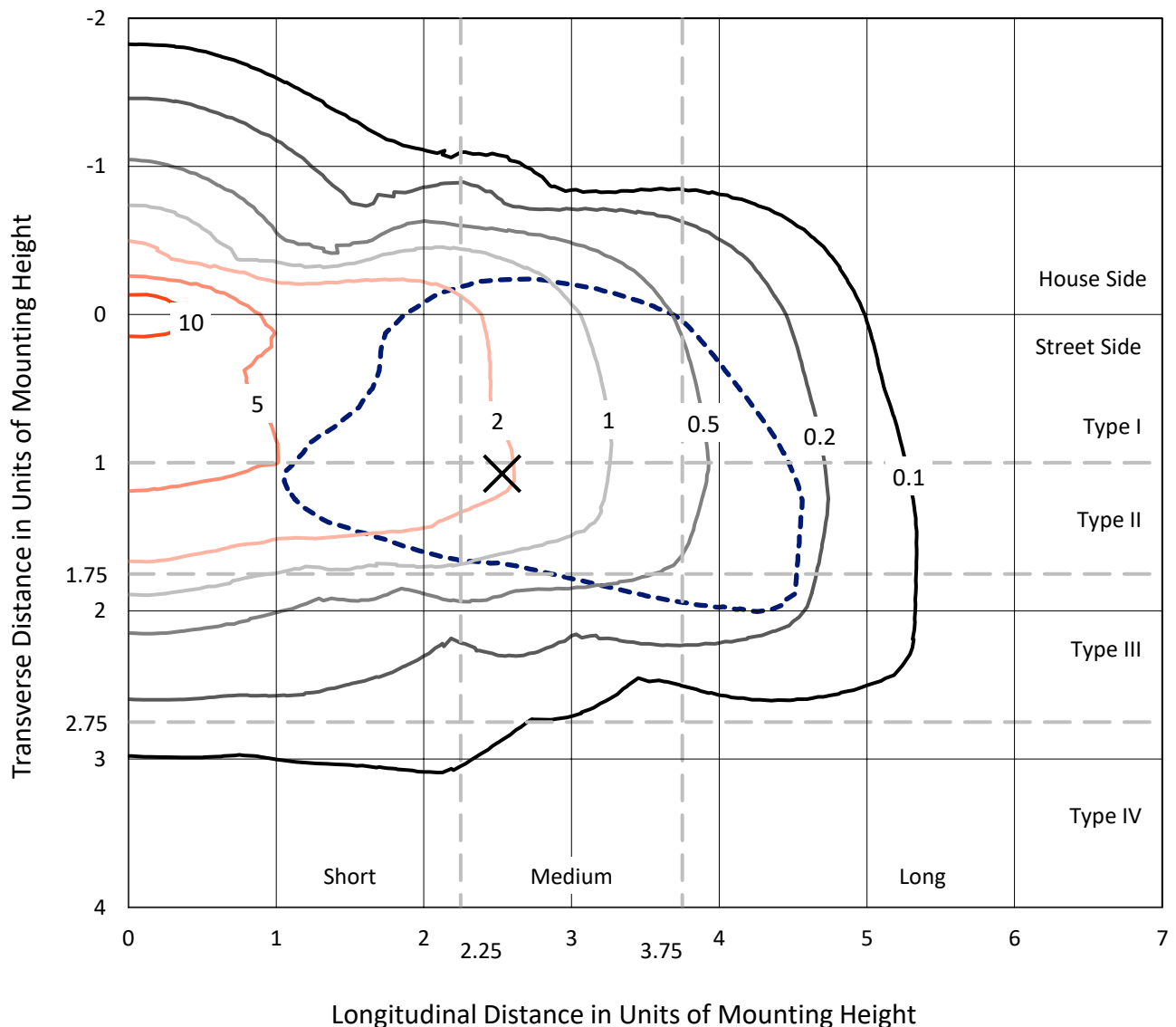
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P574968  
 CATALOG NUMBER: EPH-VN-08-730-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

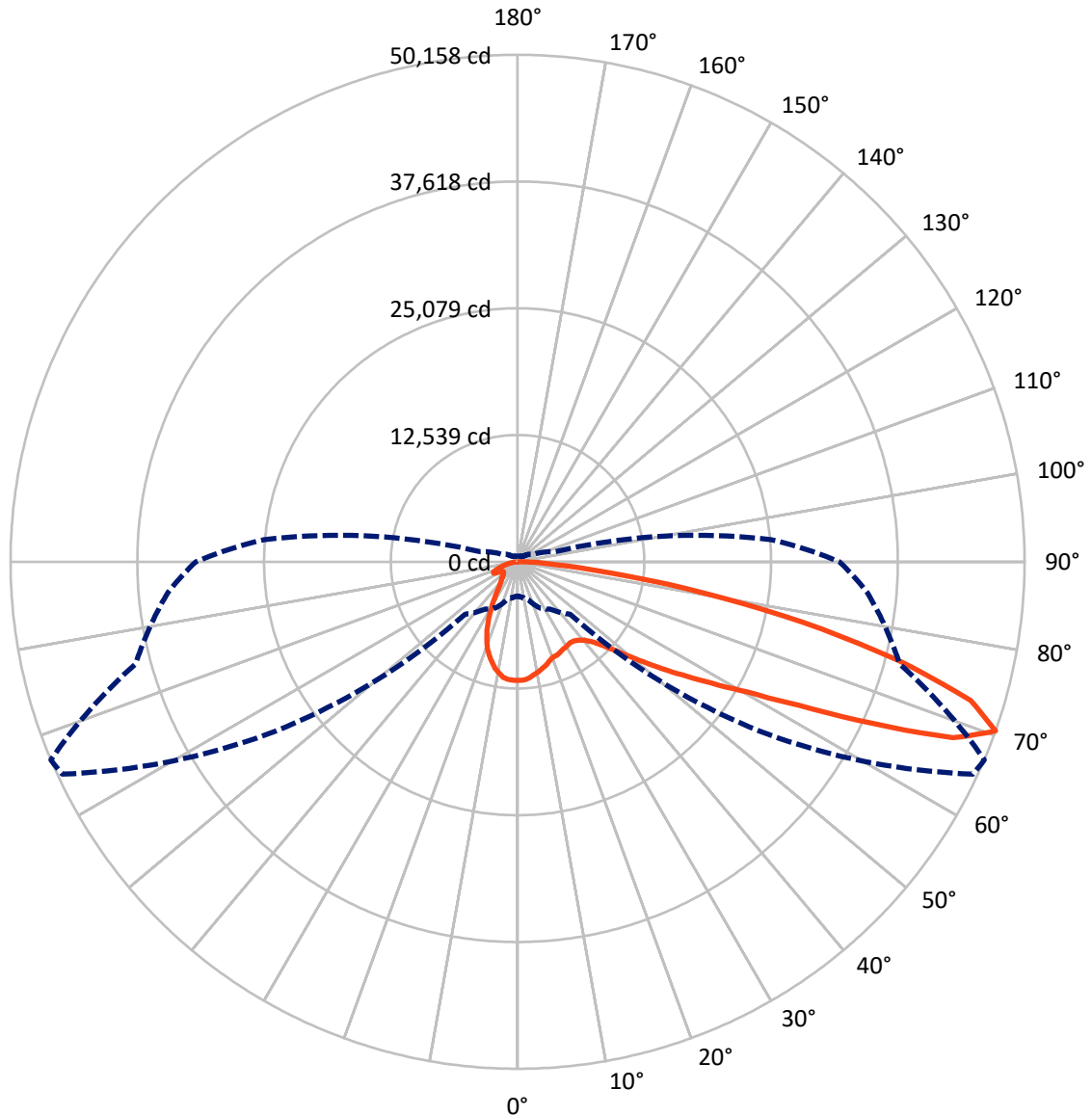
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P574968  
CATALOG NUMBER: EPH-VN-08-730-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P574968

CATALOG NUMBER: EPH-VN-08-730-U-SL2

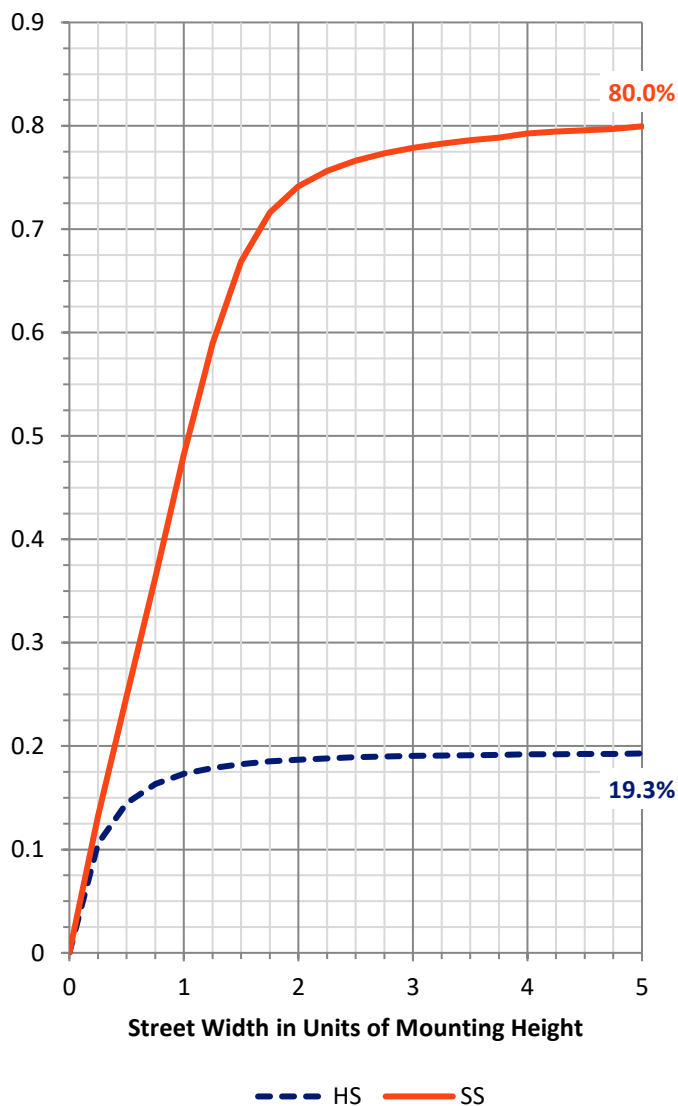
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9857.7	0.0	9857.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	40756.8	0.0	40756.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	50614.5	0.0	50614.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1022.3	2.0
10°-20°	2448.5	4.8
20°-30°	3306.5	6.5
30°-40°	4424.4	8.7
40°-50°	6505.9	12.9
50°-60°	10141.1	20.0
60°-70°	12492.2	24.7
70°-80°	8826.8	17.4
80°-90°	1446.8	2.9
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°	50614.5	100.0
0°-180°	50614.5	100.0

**Coefficient of Utilization**

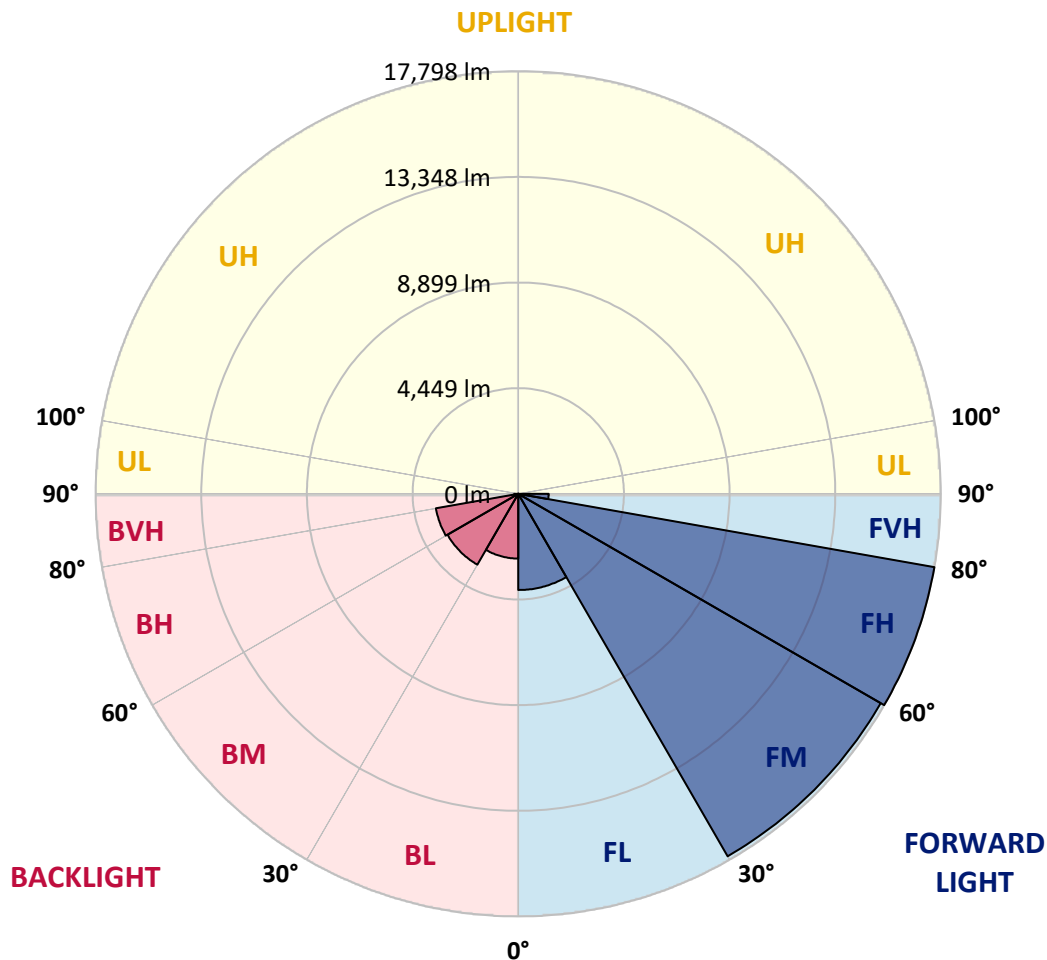


REPORT NUMBER: P574968  
 CATALOG NUMBER: EPH-VN-08-730-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4051.3	8.0			
FM (30°-60°)	17627.9	34.8			
FH (60°-80°)	17797.7	35.2			G5
FVH (80°-90°)	1279.9	2.5			G5
BL (0°-30°)	2726.0	5.4	B4/5000		
BM (30°-60°)	3443.5	6.8	B3/5000		
BH (60°-80°)	3521.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	166.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





REPORT NUMBER: P574968  
 CATALOG NUMBER: EPH-VN-08-730-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1
2.5°	10910.2	11033.4	11078.3	11145.5	11319.2	11448.1	11526.6	11616.2	11722.7	11812.3
5°	10148.1	10215.3	10321.8	10394.6	10613.2	10960.6	11196.0	11577.0	11565.8	11705.9
7.5°	9408.4	9475.7	9526.1	9671.8	9985.6	10299.4	10730.9	11347.2	11302.4	11627.4
10°	8948.9	8898.5	8915.3	9161.9	9408.4	9761.4	10305.0	10932.6	11095.1	11599.4
12.5°	8517.4	8461.4	8595.9	8752.8	9055.4	9374.8	10024.8	10590.8	10837.3	11498.5
15°	8248.5	8209.2	8377.4	8444.6	8803.2	9184.3	9643.8	10333.0	10602.0	11375.3
17.5°	8097.2	8130.8	8192.4	8338.1	8567.9	8892.9	9397.2	10159.3	10277.0	11224.0
20°	8125.2	8164.4	8170.0	8231.7	8388.6	8640.7	9156.2	9974.4	10052.8	11196.0
22.5°	8349.3	8293.3	8315.7	8276.5	8321.3	8517.4	8971.3	9727.8	10030.4	10960.6
25°	8685.5	8607.1	8595.9	8461.4	8377.4	8433.4	8937.7	9666.2	9862.3	10887.8
27.5°	9279.5	9161.9	9161.9	8960.1	8618.3	8528.6	8842.4	9565.3	9739.0	10820.5
30°	9851.1	9851.1	9856.7	9570.9	9189.9	8747.2	8881.7	9526.1	9638.2	10618.8
32.5°	10545.9	10529.1	10501.1	10361.0	9772.6	9111.4	9072.2	9475.7	9531.7	10551.5
35°	11224.0	11179.1	11397.7	11274.4	10674.8	9823.1	9268.3	9498.1	9621.3	10450.7
37.5°	11733.9	11761.9	12215.8	12294.3	11778.7	10630.0	9823.1	9722.2	9839.9	10596.4
40°	12395.1	12507.2	12933.1	13196.4	12882.6	11694.7	10702.8	10097.7	10181.7	10921.4
42.5°	13263.7	13358.9	13902.5	14244.3	14154.6	13050.7	11571.4	10882.2	10814.9	11464.9
45°	14412.4	14429.2	14978.4	15449.1	15634.0	14468.4	12949.9	11874.0	11818.0	12400.7
47.5°	15779.7	15762.9	16104.7	16609.0	17107.7	16160.7	14535.7	13381.3	13179.6	13740.0
50°	17102.1	17029.3	17107.7	17752.1	18710.4	18278.9	16463.3	15224.9	15023.2	15331.4
52.5°	17830.6	17920.2	17707.3	18559.1	20413.8	20783.7	19018.6	17427.1	17253.4	17404.7
55°	17320.7	17505.6	17365.5	18172.4	21159.1	23837.6	22324.7	19976.8	19752.6	19696.6
57.5°	15152.1	15488.3	15516.3	16793.9	20901.4	26202.3	26975.6	22985.9	22649.7	22078.1
60°	11633.0	11969.2	12227.0	13740.0	18693.5	27614.4	32366.3	27267.0	26157.5	24678.2
62.5°	8153.2	8383.0	8640.7	9570.9	14412.4	26785.1	37028.5	33296.5	31251.2	27418.3
65°	5939.8	6119.1	6382.5	6931.6	8853.7	22162.2	39191.4	40457.8	38519.0	30903.7
67.5°	4471.7	4583.7	4931.2	5810.9	6135.9	13689.5	36950.0	48022.7	46453.7	34775.8
70°	3384.6	3479.8	3804.8	5009.6	5732.5	7340.7	29149.8	49709.4	50157.6	39118.6
72.5°	2331.1	2437.6	2801.8	4174.7	5457.9	5822.1	18295.7	45159.3	46857.1	40906.1
75°	1428.9	1501.8	1714.7	3166.0	5418.7	5693.2	10069.6	37006.0	38804.8	37796.1
77.5°	1008.6	1003.0	1042.3	1854.8	4695.8	5726.9	6208.8	27115.7	28864.0	27855.4
80°	734.1	739.7	778.9	1109.5	3188.4	5822.1	4891.9	18161.2	18682.3	14524.5
82.5°	442.7	465.1	560.4	750.9	1916.4	5256.2	4522.1	10092.0	9442.0	4662.2
85°	235.4	235.4	330.6	476.3	1019.9	3922.5	4354.0	4802.3	4023.4	1445.7
87.5°	56.0	56.0	95.3	190.5	409.1	1877.2	2969.9	1910.8	1529.8	487.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574968

CATALOG NUMBER: EPH-VN-08-730-U-SL2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11717.1	0°	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1	11717.1
11868.4	2.5°	11846.0	11778.7	11862.8	11694.7	11560.2	11565.8	11358.5	11347.2	11319.2	11173.5
11918.8	5°	11980.5	11924.4	11829.2	11644.2	11347.2	11050.3	10870.9	10641.2	10545.9	10495.5
11958.0	7.5°	12109.3	12008.5	11733.9	11476.1	11016.6	10456.3	10131.3	9823.1	9430.8	9386.0
12070.1	10°	12143.0	11930.0	11577.0	11027.8	10417.1	9795.1	9055.4	8483.8	8181.2	7945.9
12120.5	12.5°	12092.5	12002.9	11324.8	10618.8	9694.2	8719.2	7856.2	7049.3	6488.9	6197.6
12042.1	15°	12086.9	11930.0	11044.7	9996.8	8814.4	7542.4	6315.2	5345.8	4757.4	4516.5
12025.3	17.5°	12092.5	11717.1	10714.0	9369.2	7777.8	6057.5	4707.0	3911.3	3586.3	3552.7
12070.1	20°	11980.5	11560.2	10366.6	8629.5	6477.7	4550.1	3418.2	3093.2	3093.2	3138.0
11974.9	22.5°	11879.6	11324.8	9817.5	7716.1	5155.3	3294.9	2779.4	2684.1	2790.6	2869.0
11969.2	25°	11739.5	11128.7	9257.1	6769.1	3922.5	2656.1	2415.1	2437.6	2538.4	2678.5
11840.4	27.5°	11537.8	10786.9	8590.3	5670.8	2919.5	2291.9	2230.2	2241.4	2347.9	2409.5
11666.7	30°	11308.0	10439.5	7973.9	4578.1	2314.3	2101.3	2095.7	2123.8	2140.6	2174.2
11616.2	32.5°	11016.6	9980.0	7318.3	3558.3	2084.5	1994.9	1972.5	1955.6	1972.5	1966.9
11459.3	35°	10809.3	9733.4	6651.4	2712.1	1955.6	1899.6	1882.8	1854.8	1832.4	1798.7
11459.3	37.5°	10753.3	9486.9	5951.0	2213.4	1854.8	1826.8	1770.7	1720.3	1692.3	1675.5
11705.9	40°	10719.6	9324.4	5267.4	1944.4	1770.7	1742.7	1675.5	1608.2	1580.2	1563.4
12075.7	42.5°	10837.3	9234.7	4572.5	1810.0	1697.9	1647.5	1574.6	1496.2	1490.6	1479.3
12753.7	45°	11252.0	9346.8	3928.1	1714.7	1625.0	1541.0	1445.7	1406.5	1400.9	1389.7
13880.1	47.5°	12193.4	9627.0	3379.0	1653.1	1546.6	1473.7	1372.9	1316.8	1311.2	1305.6
15572.3	50°	13493.4	10489.9	2919.5	1580.2	1496.2	1395.3	1300.0	1238.4	1227.2	1204.8
17825.0	52.5°	15533.1	11941.2	2644.9	1541.0	1406.5	1322.4	1221.6	1154.3	1126.3	1103.9
20385.8	55°	17830.6	13740.0	2594.5	1473.7	1311.2	1232.8	1143.1	1075.9	1047.9	1019.9
22789.8	57.5°	20447.5	16121.5	2953.1	1428.9	1244.0	1143.1	1042.3	980.6	958.2	930.2
25104.0	60°	22885.0	18497.4	4068.2	1361.7	1182.4	1059.1	958.2	896.6	868.6	840.5
27950.7	62.5°	25703.6	21439.3	5956.6	1361.7	1126.3	969.4	868.6	823.7	806.9	778.9
30836.5	65°	29037.8	24482.0	7335.1	1445.7	1109.5	891.0	784.5	739.7	722.9	706.1
33156.4	67.5°	31576.2	26230.4	6309.6	1669.9	1182.4	823.7	700.4	672.4	661.2	644.4
34714.2	70°	31845.1	25165.7	3804.8	1804.4	1255.2	756.5	627.6	599.6	599.6	582.8
33044.3	72.5°	29430.0	22330.3	2560.8	1608.2	1137.5	678.0	554.8	532.3	521.1	509.9
28908.9	75°	24627.7	18940.1	2022.9	1283.2	874.2	560.4	481.9	459.5	442.7	437.1
19618.1	77.5°	16541.8	12311.1	1496.2	1003.0	644.4	453.9	403.5	381.0	364.2	358.6
7738.5	80°	6354.5	4690.2	963.8	728.5	453.9	358.6	319.4	297.0	285.8	269.0
2129.4	82.5°	1871.6	1518.6	537.9	448.3	291.4	246.6	229.7	212.9	196.1	179.3
790.1	85°	773.3	694.8	330.6	235.4	179.3	145.7	134.5	117.7	100.9	89.7
325.0	87.5°	358.6	297.0	151.3	89.7	61.6	33.6	16.8	5.6	0.0	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°
11717.1
11224.0
10517.9
9307.5
7856.2
6119.1
4516.5
3580.7
3154.8
2902.7
2667.3
2398.3
2168.6
1950.0
1793.1
1664.3
1569.0
1496.2
1400.9
1305.6
1204.8
1103.9
1008.6
919.0
840.5
773.3
700.4
633.2
571.6
504.3
425.9
341.8
257.8
173.7
78.5
0.0
0.0

F REPORT)