

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: P574705

Luminaire Tested: **EPH-VN-07-750-U-T3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574705  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-750-U-T3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58813.6 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

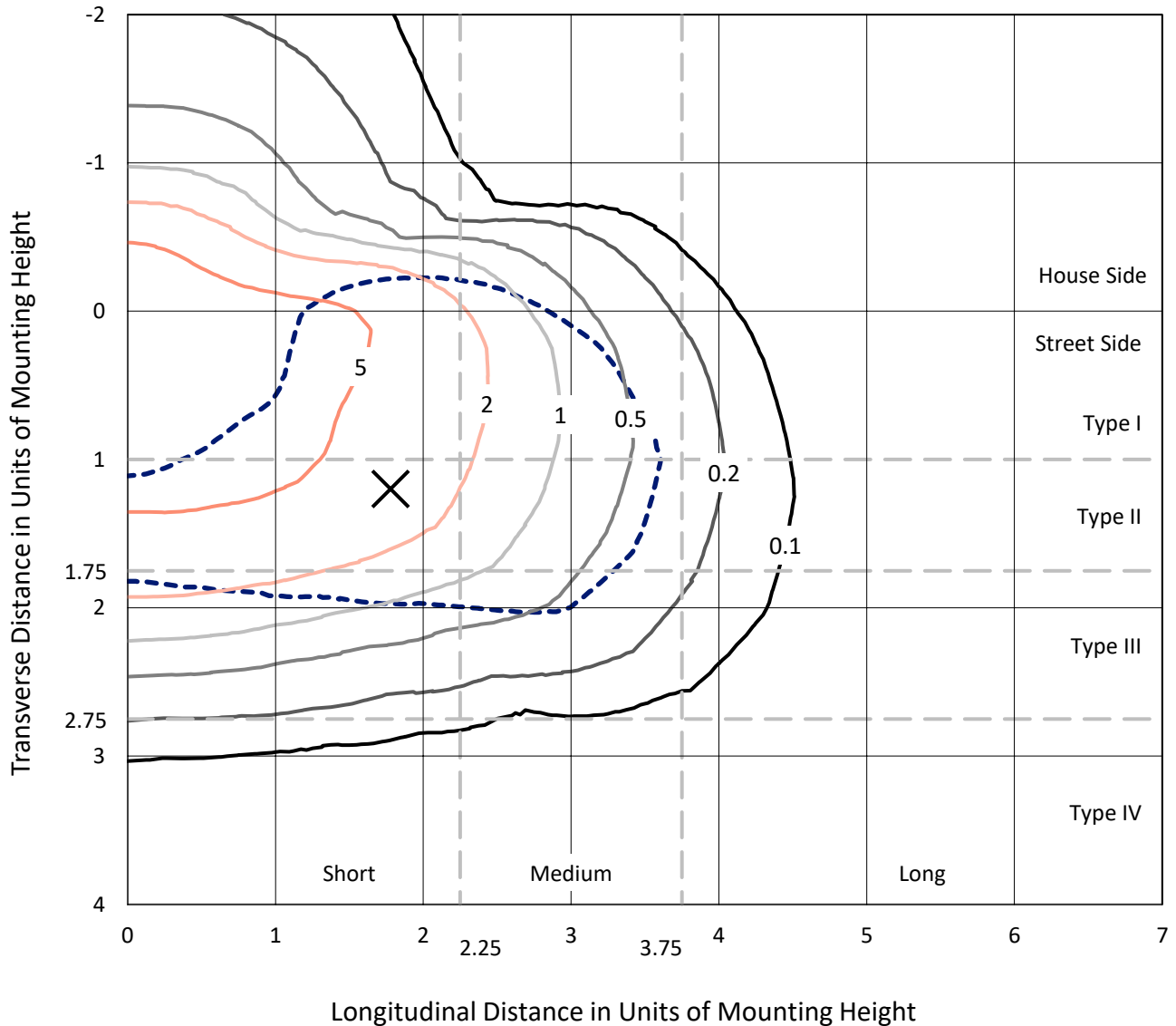
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P574705  
 CATALOG NUMBER: EPH-VN-07-750-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

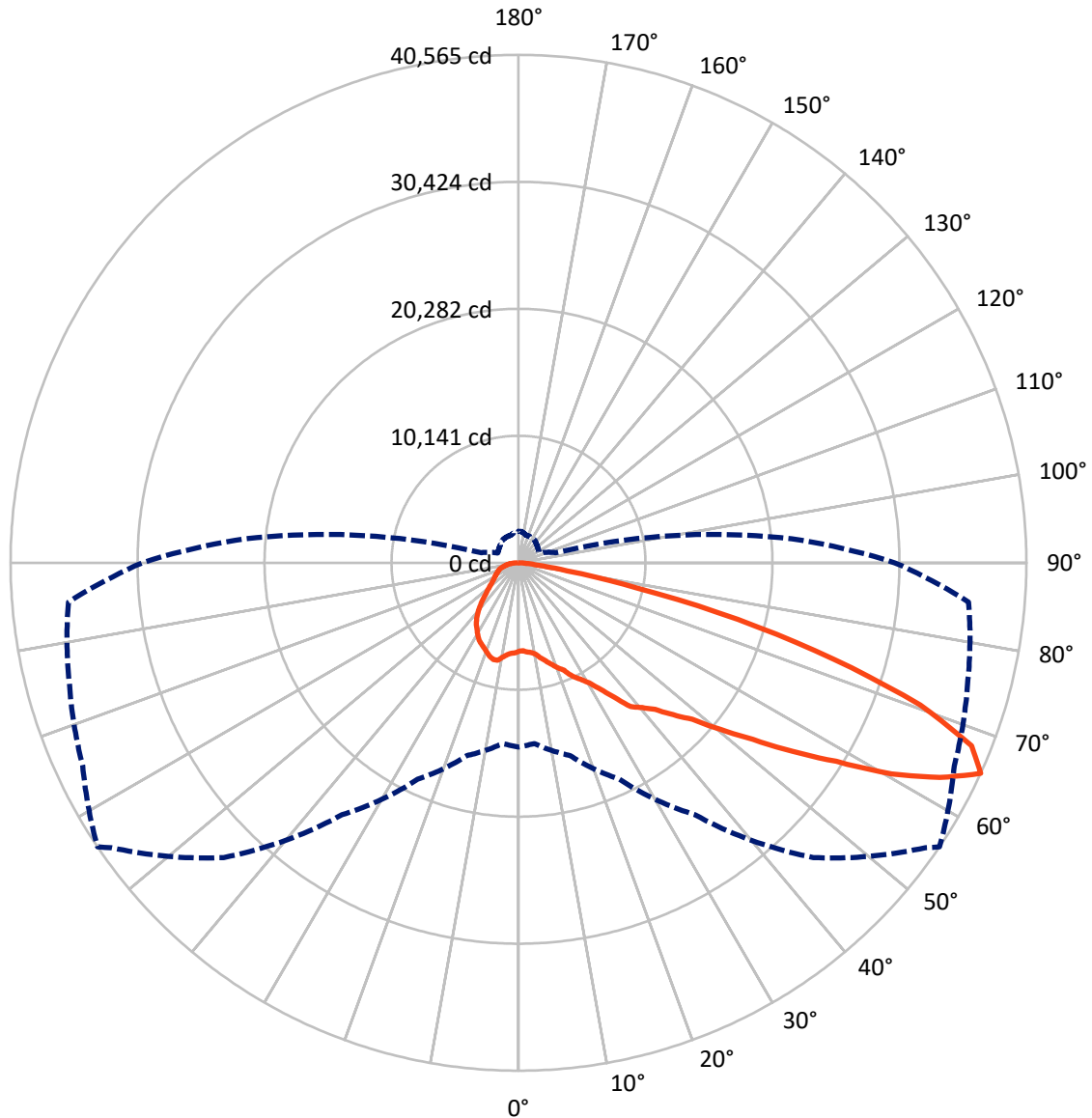
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P574705  
CATALOG NUMBER: EPH-VN-07-750-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P574705  
 CATALOG NUMBER: EPH-VN-07-750-U-T3

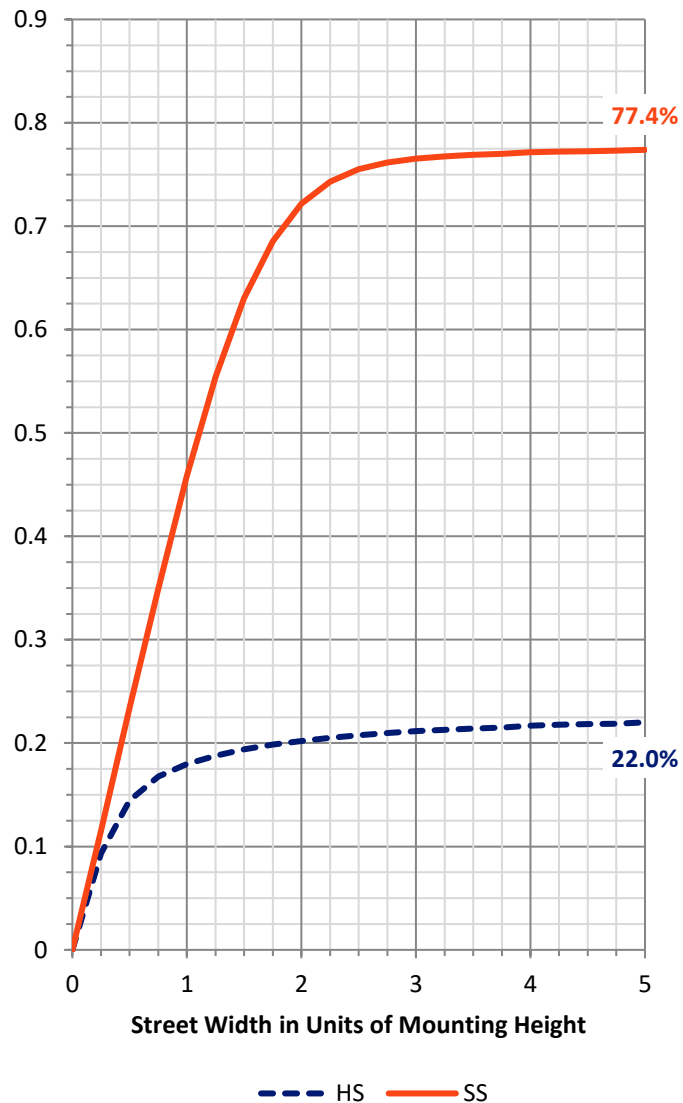
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13190.0	0.0	13190.0
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	45623.6	0.0	45623.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	58813.6	0.0	58813.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.5	1.2
10°-20°	2271.5	3.9
20°-30°	4044.6	6.9
30°-40°	6056.7	10.3
40°-50°	8973.8	15.3
50°-60°	13827.3	23.5
60°-70°	15654.2	26.6
70°-80°	6496.7	11.0
80°-90°	789.3	1.3
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°	58813.6	100.0
0°-180°	58813.6	100.0

**Coefficient of Utilization**

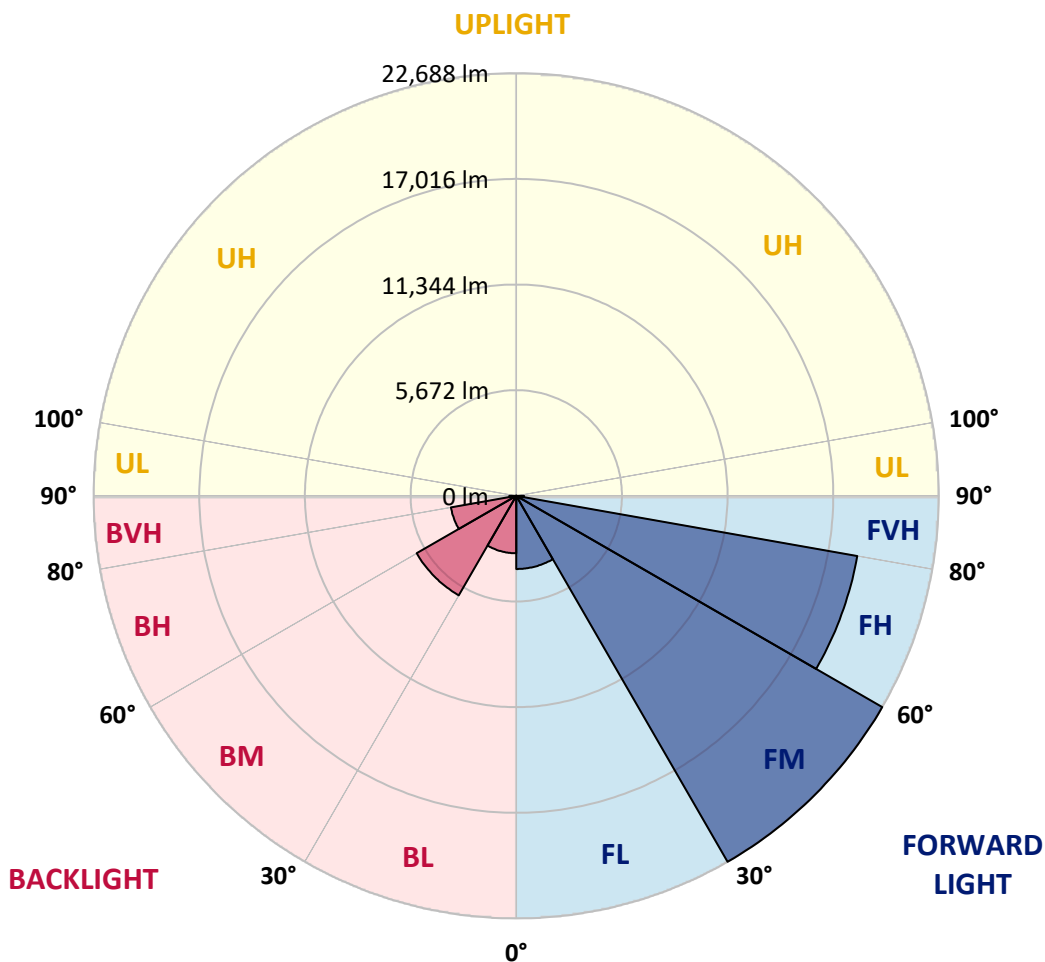


REPORT NUMBER: P574705  
 CATALOG NUMBER: EPH-VN-07-750-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3930.5	6.7			
FM (30°-60°)	22687.7	38.6			
FH (60°-80°)	18589.1	31.6			G5
FVH (80°-90°)	416.3	0.7			G3/500
BL (0°-30°)	3085.3	5.2	B4/5000		
BM (30°-60°)	6170.0	10.5	B4/8500		
BH (60°-80°)	3561.8	6.1	B4/5000		G4/5000
BVH (80°-90°)	372.9	0.6			G3/500
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 Short





REPORT NUMBER: P574705  
 CATALOG NUMBER: EPH-VN-07-750-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3
2.5°	6874.7	6911.6	6887.0	6960.8	7022.4	7022.4	7071.6	7034.7	7083.9	7151.6
5°	7102.4	6954.7	7034.7	7071.6	7053.2	7083.9	7034.7	7157.8	7077.8	7207.0
7.5°	7157.8	7213.2	7280.9	7219.3	7274.7	7244.0	7250.1	7231.6	7188.6	7293.2
10°	7564.0	7484.0	7637.8	7545.5	7533.2	7520.9	7496.3	7404.0	7508.6	7514.8
12.5°	8031.7	7957.9	7951.7	7877.9	7976.3	7797.9	7834.8	7785.6	7804.0	7828.6
15°	8370.2	8339.5	8481.0	8394.9	8265.6	8185.6	8271.8	8136.4	8204.1	8191.8
17.5°	9041.1	9034.9	8930.3	8788.8	8714.9	8598.0	8579.5	8524.1	8573.3	8548.7
20°	9508.8	9576.5	9595.0	9428.8	9145.7	9016.5	8985.7	8942.6	8998.0	8979.5
22.5°	10222.8	10118.1	10198.2	9908.9	9804.3	9496.5	9385.7	9324.2	9588.8	9521.1
25°	10678.2	10789.0	10709.0	10610.5	10376.6	9995.1	9915.0	10050.4	10155.1	10081.2
27.5°	11706.0	11595.2	11521.4	11226.0	11072.1	10672.1	10579.7	10530.5	10555.1	10598.2
30°	12487.7	12549.2	12383.0	12173.8	11786.0	11379.8	11164.4	11121.3	11035.2	10961.3
32.5°	13601.6	13509.3	13410.8	13275.4	12943.1	12407.7	12198.4	12038.4	11779.9	11435.2
35°	14137.1	14401.7	14327.9	13964.8	13712.4	13509.3	13447.8	13201.6	12986.2	12444.6
37.5°	15029.5	15140.3	15035.7	14918.7	14801.8	14586.4	14512.5	14580.2	14155.6	13263.1
40°	15608.0	15841.9	16057.3	15731.1	15706.5	15749.6	15294.2	15214.1	14340.2	13872.4
42.5°	16789.7	16888.2	16931.3	16919.0	17060.5	17060.5	16192.7	16020.4	15398.8	15017.2
45°	18353.0	18433.0	18586.9	18697.6	18537.6	18617.6	17380.6	17312.9	16758.9	16685.1
47.5°	19707.0	19897.8	20242.4	20568.6	20777.9	20507.1	19153.1	18673.0	18531.5	18974.6
50°	20888.7	20661.0	21467.2	21799.6	22716.6	23165.9	21110.2	20919.4	20691.7	21541.1
52.5°	21005.6	21313.3	22451.9	23116.6	25006.1	25837.0	23510.5	23430.5	23153.6	24132.1
55°	21842.6	21805.7	22950.5	24390.6	26637.1	28034.1	26637.1	26587.8	25984.7	26914.0
57.5°	21701.1	22076.5	22981.2	24993.8	28108.0	30391.4	30262.1	29923.6	29080.4	29837.4
60°	21221.0	21319.5	22421.2	24975.3	28963.5	32810.1	34176.4	34244.1	32520.8	33124.0
62.5°	18500.7	18728.4	20125.5	23012.0	28354.2	34478.0	37998.4	37758.4	36379.8	35690.5
65°	14715.6	14487.9	15940.4	19060.8	24563.0	33296.3	39672.5	40564.9	38398.5	37136.8
67.5°	9022.6	8967.2	10364.3	13115.4	18377.6	28335.7	38336.9	39032.4	37838.4	36829.1
70°	4646.7	4505.2	5379.1	7317.8	11552.2	20790.2	33364.0	34047.2	35185.8	33031.7
72.5°	2166.4	2135.6	2603.4	3600.4	5883.8	12223.0	25837.0	26329.3	28729.6	27849.5
75°	1274.0	1292.5	1557.1	1883.3	2868.0	5760.7	17146.7	18100.6	20704.0	20070.1
77.5°	954.0	954.0	1107.8	1310.9	1674.0	2228.0	8462.6	9724.2	12106.1	10887.5
80°	701.6	713.9	849.3	984.7	1163.2	1150.9	3360.4	3938.9	5551.4	4745.2
82.5°	547.8	566.2	658.5	732.4	818.6	695.5	1378.6	1483.3	2283.4	1815.6
85°	381.6	393.9	517.0	498.5	498.5	387.7	572.4	603.1	904.7	861.6
87.5°	92.3	104.6	252.3	277.0	209.3	116.9	178.5	203.1	326.2	375.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574705

CATALOG NUMBER: EPH-VN-07-750-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7059.3	0°	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3	7059.3
7182.4	2.5°	7090.1	7114.7	7219.3	7163.9	7194.7	7065.5	7170.1	7083.9	7157.8	7120.9
7237.8	5°	7287.0	7231.6	7293.2	7250.1	7250.1	7299.3	7373.2	7317.8	7428.6	7379.4
7280.9	7.5°	7367.0	7373.2	7410.1	7416.3	7385.5	7539.4	7545.5	7527.1	7631.7	7607.1
7576.3	10°	7564.0	7570.1	7637.8	7674.8	7644.0	7699.4	7637.8	7588.6	7582.5	7557.8
7810.2	12.5°	7877.9	7939.4	7927.1	7957.9	7964.0	7730.2	7588.6	7348.6	7317.8	7348.6
8154.8	15°	8167.1	8142.5	8154.8	8216.4	7957.9	7582.5	7330.1	7127.0	7139.3	7145.5
8604.1	17.5°	8511.8	8530.3	8548.7	8265.6	7791.7	7348.6	7127.0	7127.0	7065.5	7090.1
8918.0	20°	8905.7	8831.8	8671.8	8271.8	7502.4	7077.8	7010.1	7010.1	6936.2	6887.0
9256.5	22.5°	9213.4	9065.7	8825.7	8081.0	7244.0	6973.1	6807.0	6690.0	6603.9	6505.4
9631.9	25°	9410.4	9330.4	8862.6	7884.0	7053.2	6696.2	6450.0	6271.5	6160.7	6031.5
9927.4	27.5°	9711.9	9558.1	8967.2	7656.3	6843.9	6419.2	6037.7	5760.7	5551.4	5416.0
10376.6	30°	10118.1	9896.6	8893.4	7330.1	6523.9	5939.2	5489.9	5132.9	4892.9	4782.1
10801.3	32.5°	10450.5	10161.2	8831.8	7034.7	6166.9	5453.0	4856.0	4492.8	4357.4	4215.9
11515.2	35°	11084.4	10512.0	8788.8	6868.5	5846.9	4966.8	4339.0	4025.1	3852.8	3643.5
11939.9	37.5°	11570.6	11121.3	8684.1	6523.9	5434.5	4492.8	3945.1	3662.0	3403.5	3181.9
12924.6	40°	12333.8	11970.7	8690.3	6037.7	4948.3	4086.6	3637.4	3341.9	3015.7	2825.0
14383.3	42.5°	13767.8	12807.7	8727.2	5649.9	4400.5	3754.3	3360.4	3009.6	2683.4	2523.4
16045.0	45°	15528.0	13958.6	8499.5	5299.1	3840.5	3440.4	3028.1	2677.2	2468.0	2351.1
18303.7	47.5°	17552.9	15084.9	8191.8	4640.6	3372.7	3108.1	2720.3	2517.2	2363.4	2295.7
21214.9	50°	19817.8	16697.4	8105.6	4037.4	3009.6	2825.0	2572.6	2418.8	2314.1	2234.1
24495.3	52.5°	22735.0	18574.5	7933.3	3415.8	2695.7	2597.2	2517.2	2412.6	2320.3	2252.6
27554.1	55°	25523.1	20654.8	7748.6	2905.0	2474.1	2486.5	2529.5	2437.2	2357.2	2252.6
30982.2	57.5°	28661.9	22778.1	7065.5	2529.5	2308.0	2431.1	2517.2	2412.6	2332.6	2252.6
34490.3	60°	30600.6	23972.1	5729.9	2203.3	2160.3	2326.4	2443.4	2332.6	2246.4	2277.2
36102.8	62.5°	31388.4	23344.4	4320.5	2000.2	2055.6	2184.9	2326.4	2283.4	2221.8	2338.7
36084.4	65°	30046.7	21898.0	3089.6	1827.9	1914.1	2043.3	2221.8	2271.0	2289.5	2517.2
33142.5	67.5°	26735.5	19066.9	2271.0	1686.4	1766.4	1957.2	2295.7	2375.7	2363.4	2646.5
27812.6	70°	21393.3	14912.6	1772.5	1569.4	1711.0	2024.9	2400.3	2400.3	2314.1	2646.5
21214.9	72.5°	15565.0	10512.0	1526.3	1434.0	1569.4	1858.7	2388.0	2381.8	2271.0	2418.8
13509.3	75°	9422.7	6117.7	1347.9	1298.6	1347.9	1594.0	2283.4	2246.4	2092.6	2080.3
6499.2	77.5°	4696.0	3077.3	1101.7	1150.9	1175.5	1335.5	2006.4	2061.8	1852.5	1803.3
2566.5	80°	1981.8	1341.7	917.0	990.9	990.9	1126.3	1667.9	1704.8	1538.6	1446.3
1015.5	82.5°	904.7	769.3	781.6	861.6	806.3	874.0	1323.2	1366.3	1249.4	1095.5
430.8	85°	381.6	437.0	597.0	677.0	597.0	566.2	910.9	960.1	812.4	677.0
184.6	87.5°	172.3	240.0	375.4	492.4	301.6	264.6	486.2	504.7	406.2	301.6
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





<u>180°</u>
7059.3
7053.2
7311.7
7570.1
7557.8
7360.9
7231.6
7096.2
6813.1
6450.0
6056.1
5477.6
4843.7
4209.7
3625.1
3188.1
2843.4
2535.7
2375.7
2283.4
2246.4
2246.4
2246.4
2246.4
2252.6
2308.0
2517.2
2664.9
2591.1
2332.6
2055.6
1772.5
1415.6
1070.9
683.2
283.1
0.0

F REPORT)