

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: P574666

Luminaire Tested: **EPH-VN-08-750-U-T2R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574666  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-750-U-T2R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

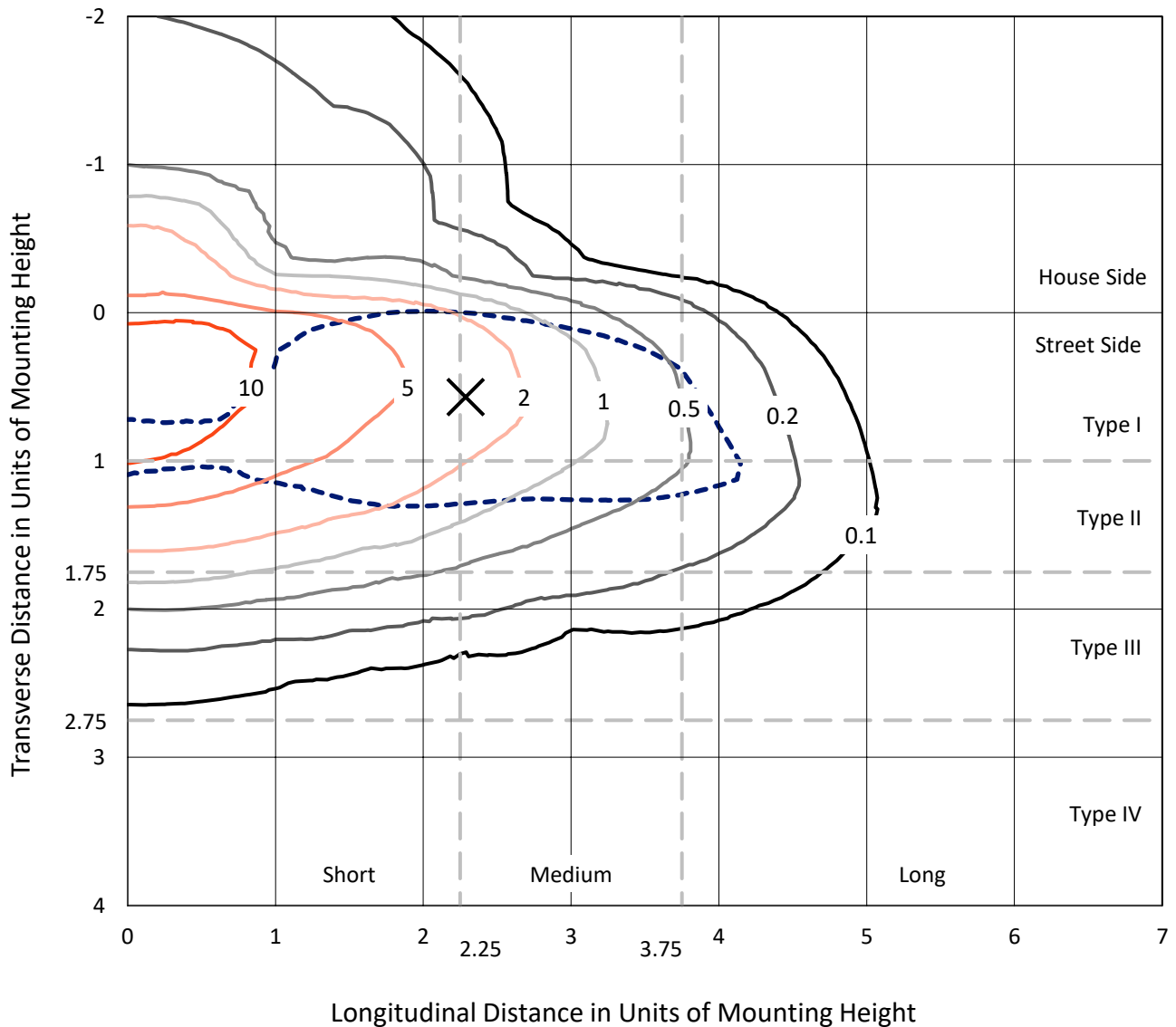
Lumens per Lamp: N/A  
Luminaire Lumens: 57344.8 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

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: P574666  
 CATALOG NUMBER: EPH-VN-08-750-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

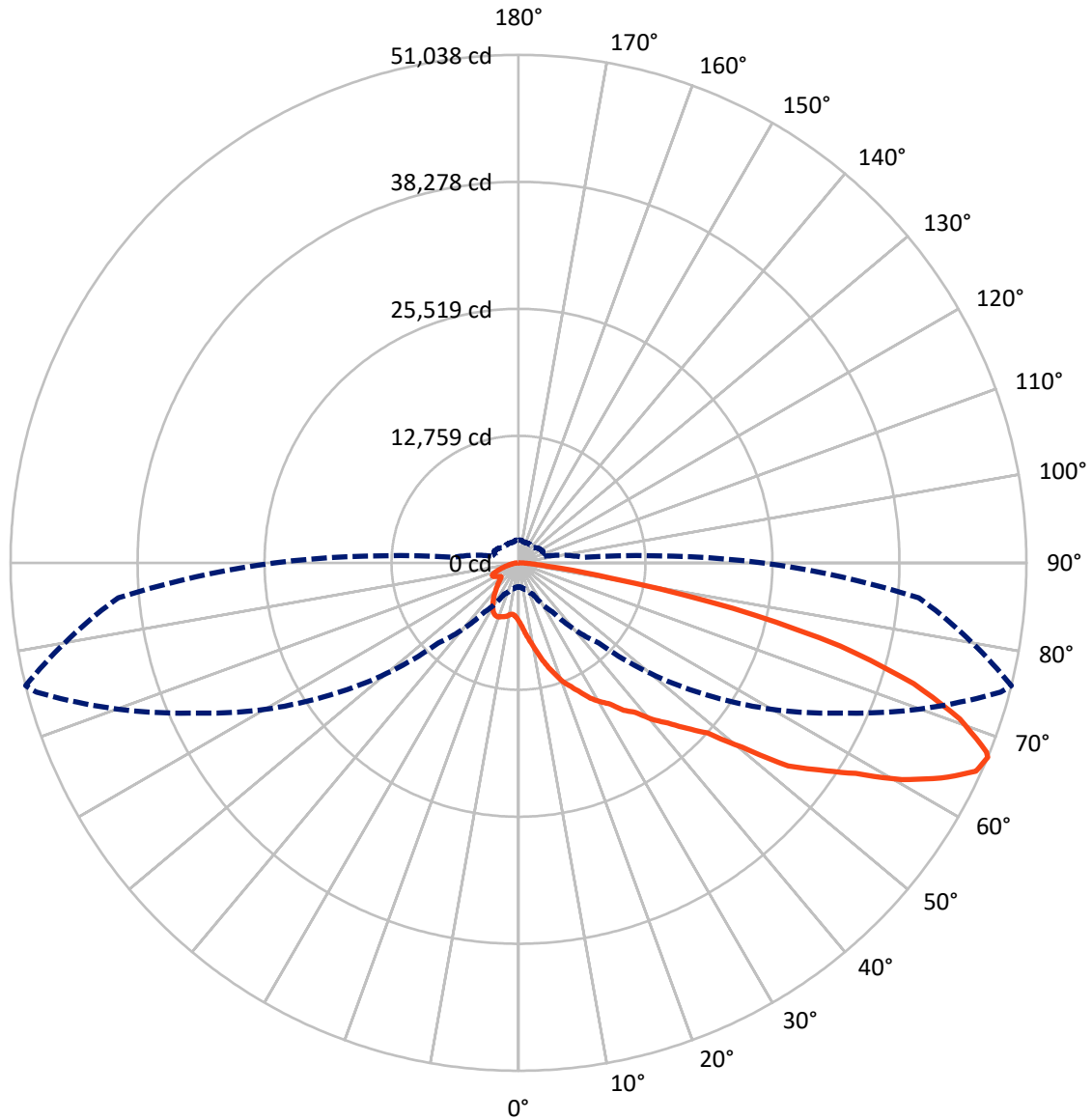
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P574666  
CATALOG NUMBER: EPH-VN-08-750-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P574666  
 CATALOG NUMBER: EPH-VN-08-750-U-T2R

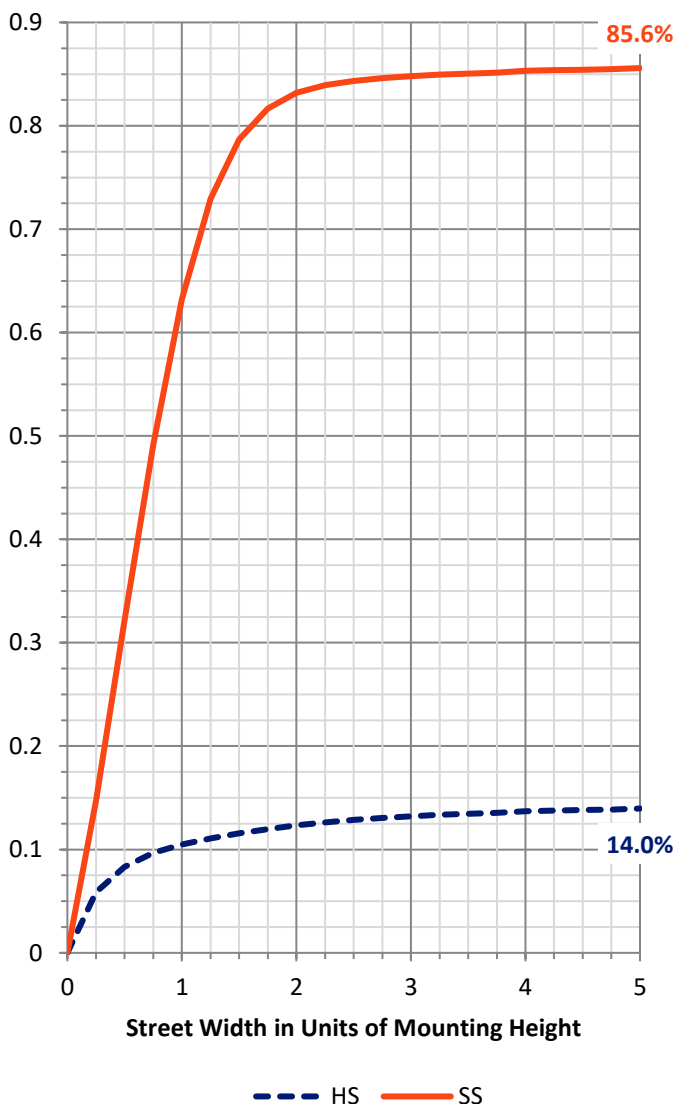
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8158.0	0.0	8158.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	49186.7	0.0	49186.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	57344.8	0.0	57344.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	679.8	1.2
10°-20°	2549.5	4.4
20°-30°	4739.8	8.3
30°-40°	7513.7	13.1
40°-50°	10392.1	18.1
50°-60°	12782.9	22.3
60°-70°	11895.1	20.7
70°-80°	5968.9	10.4
80°-90°	823.0	1.4
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°	57344.8	100.0
0°-180°	57344.8	100.0

**Coefficient of Utilization**

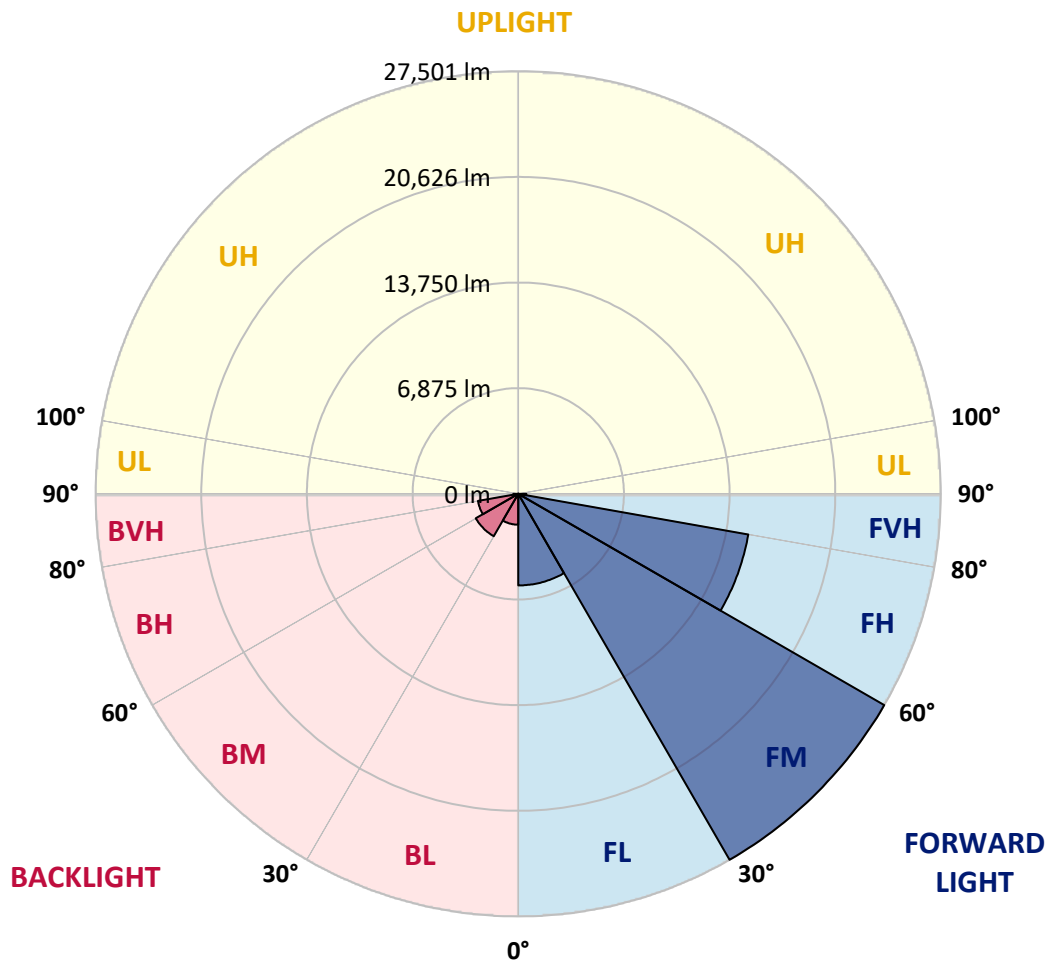


REPORT NUMBER: P574666  
 CATALOG NUMBER: EPH-VN-08-750-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5960.1	10.4			
FM (30°-60°)	27500.7	48.0			
FH (60°-80°)	15201.6	26.5			G5
FVH (80°-90°)	524.4	0.9			G4/750
BL (0°-30°)	2009.0	3.5	B3/2500		
BM (30°-60°)	3188.0	5.6	B3/5000		
BH (60°-80°)	2662.4	4.6	B4/5000		G4/5000
BVH (80°-90°)	298.7	0.5			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 II Medium





REPORT NUMBER: P574666  
 CATALOG NUMBER: EPH-VN-08-750-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4
2.5°	8142.5	8044.5	7946.5	7737.3	7665.5	7469.4	7110.0	6711.4	6384.6	6338.9
5°	10103.0	9959.2	9926.5	9808.9	9436.4	9057.4	8469.3	7828.8	7031.6	7090.4
7.5°	11573.3	11488.4	11311.9	11200.9	10978.7	10475.5	9867.7	9018.2	8005.3	7809.2
10°	12684.3	12566.7	12560.1	12462.1	12344.5	11828.2	11364.2	10220.6	8920.2	8652.2
12.5°	13246.3	13226.7	13573.0	13573.0	13527.3	13311.6	12514.4	11468.8	9789.3	9697.8
15°	13854.0	13690.7	13991.3	14220.0	14337.6	14448.7	13788.7	12684.3	10900.2	10723.8
17.5°	13854.0	13841.0	14141.6	14520.6	15134.9	15278.6	14919.2	13801.8	11821.7	11691.0
20°	13618.8	13808.3	14017.4	14527.1	15193.7	15775.3	15879.9	14945.4	12841.1	12736.6
22.5°	14716.6	14533.7	14749.3	14945.4	15461.6	16343.8	16631.4	15951.7	13912.8	13514.2
25°	16559.5	16435.3	16278.5	15991.0	16206.6	16592.2	17030.0	16696.7	14827.7	14383.4
27.5°	18356.6	18363.1	18023.3	17396.0	16932.0	17010.4	17526.7	17350.2	15598.9	15402.8
30°	20911.7	20754.9	20375.9	19526.3	18618.0	17873.0	17788.1	17958.0	16579.1	16200.1
32.5°	22826.5	22859.2	22323.3	21101.3	19859.6	19251.9	18506.9	18578.8	17199.9	16918.9
35°	24375.3	24336.0	23957.0	22944.1	21473.8	20741.8	19735.5	19323.8	18644.1	18199.8
37.5°	26048.2	25728.0	25113.7	23970.1	23029.1	22016.2	21035.9	20108.0	19604.8	19068.9
40°	26721.3	26721.3	25897.9	25375.1	24257.6	23493.0	22859.2	21140.5	20774.5	20670.0
42.5°	26244.2	26538.3	26198.5	25603.8	25146.4	24179.2	24009.3	22212.2	22218.7	22009.6
45°	26198.5	25793.3	25512.3	25662.6	25447.0	25394.7	25826.0	23695.6	23734.8	23708.7
47.5°	24885.0	24702.0	25120.2	25368.6	25545.0	26355.3	27597.0	25466.6	25747.6	25551.5
50°	23578.0	23545.3	23806.7	24708.5	25473.1	26806.2	29283.0	28198.2	29119.6	29106.5
52.5°	19996.9	20343.2	21369.2	23277.4	25166.0	27420.5	30557.3	31687.8	33445.7	33922.8
55°	16572.6	16389.6	17905.7	20676.5	23826.3	27662.3	31981.9	33785.5	36373.4	36719.7
57.5°	12893.4	13233.2	14429.1	17088.8	21055.5	26466.4	33027.5	35857.1	39680.0	39948.0
60°	9619.4	9665.1	10978.7	13122.1	17369.8	23767.5	33367.3	37981.0	43470.3	44234.9
62.5°	6051.3	6325.8	7325.6	9436.4	13076.4	19990.3	31844.7	39268.3	47443.5	47646.1
65°	3260.9	3437.4	4188.9	5515.5	9135.8	15121.8	27806.1	38497.2	49312.5	50514.9
67°	2411.4	2444.1	2790.4	3522.3	6110.2	11383.8	23185.9	35706.8	50162.1	51037.7
67.5°	2261.1	2306.8	2581.3	3162.9	5417.4	10482.0	21976.9	34713.5	49783.0	50724.1
70°	1934.3	1947.4	2012.8	2176.1	3038.7	6306.2	14965.0	28446.5	46143.1	47044.9
72.5°	1718.7	1731.8	1757.9	1790.6	2058.5	3646.5	9103.1	21892.0	40104.8	41542.5
75°	1509.6	1555.3	1568.4	1542.2	1751.4	2372.2	4842.4	16089.0	32713.8	33413.1
77.5°	1280.8	1300.4	1326.6	1352.7	1561.8	1771.0	2326.4	10861.0	22454.0	22029.2
80°	1078.3	1084.8	1104.4	1124.0	1352.7	1352.7	1320.1	5868.4	9808.9	9377.6
82.5°	771.1	816.9	862.6	914.9	1124.0	908.4	862.6	2614.0	3104.1	2953.8
85°	300.6	366.0	568.5	627.4	712.3	490.1	575.1	1130.5	1293.9	1280.8
87.5°	52.3	58.8	156.8	241.8	261.4	169.9	274.5	405.2	483.6	522.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574666  
 CATALOG NUMBER: EPH-VN-08-750-U-T2R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5868.4	0°	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4	5868.4
6110.2	2.5°	5920.6	5718.1	5476.3	5234.5	5077.6	4829.3	4809.7	4659.4	4639.8	4587.5
6306.2	5°	5966.4	5724.6	5234.5	4848.9	4672.5	4528.7	4561.4	4496.0	4476.4	4443.7
6744.0	7.5°	6325.8	5848.8	5116.8	4783.6	4652.9	4587.5	4587.5	4509.1	4450.3	4489.5
7279.9	10°	6561.1	5907.6	5208.3	4875.1	4770.5	4626.7	4679.0	4581.0	4613.7	4535.2
7900.7	12.5°	6940.1	6240.8	5397.8	5012.3	4842.4	4711.7	4764.0	4652.9	4626.7	4633.3
8567.3	15°	7449.8	6463.0	5482.8	5090.7	4973.1	4809.7	4770.5	4672.5	4574.4	4541.8
9299.2	17.5°	7926.9	6737.5	5541.6	5136.4	4946.9	4764.0	4718.2	4594.0	4561.4	4463.4
10129.1	20°	8495.4	7064.3	5620.0	5175.7	4848.9	4665.9	4548.3	4424.1	4313.0	4254.2
10880.6	22.5°	8874.4	7234.2	5659.2	5097.2	4705.1	4535.2	4286.9	4202.0	4045.1	3979.8
11606.0	25°	9495.2	7443.3	5561.2	4881.6	4450.3	4175.8	3953.6	3836.0	3724.9	3640.0
12102.7	27.5°	9652.1	7600.1	5332.5	4515.6	4045.1	3757.6	3568.1	3424.3	3352.4	3221.7
12815.0	30°	10109.5	7443.3	4992.7	4071.3	3659.6	3365.5	3176.0	3071.4	2901.5	2868.8
13383.5	32.5°	10403.6	7489.0	4561.4	3640.0	3215.2	2953.8	2829.6	2725.1	2679.3	2522.5
14252.7	35°	10893.7	7332.2	4123.5	3241.3	2849.2	2646.6	2542.1	2509.4	2359.1	2287.2
14997.6	37.5°	11207.4	7240.7	3685.7	2790.4	2450.6	2365.6	2398.3	2261.1	2078.1	1940.9
15951.7	40°	11756.3	7208.0	3189.0	2417.9	2176.1	2156.5	2261.1	1999.7	1666.4	1548.8
17095.4	42.5°	12547.0	6985.8	2803.5	2084.6	1960.5	2045.4	2065.0	1666.4	1476.9	1378.9
18631.1	45°	13305.1	7031.6	2424.5	1725.2	1705.6	1829.8	1784.0	1411.5	1300.4	1228.6
20402.0	47.5°	14762.4	7260.3	2052.0	1437.7	1535.7	1653.3	1385.4	1261.2	1156.7	1104.4
23610.7	50°	17016.9	7482.5	1725.2	1313.5	1450.8	1496.5	1189.4	1143.6	1137.1	1032.5
26270.4	52.5°	18369.7	7397.5	1666.4	1470.4	1555.3	1496.5	1293.9	1261.2	1209.0	1163.2
29002.0	55°	20519.7	7645.9	1790.6	1718.7	1764.4	1437.7	1450.8	1437.7	1398.5	1280.8
32171.4	57.5°	22231.8	7809.2	1953.9	1921.3	1895.1	1496.5	1516.1	1522.6	1496.5	1444.2
35491.2	60°	24584.4	8136.0	2123.8	2130.4	2136.9	1627.2	1659.9	1699.1	1692.5	1672.9
38837.0	62.5°	26028.6	7985.7	2313.4	2417.9	2385.2	1895.1	1888.6	1914.7	1914.7	1947.4
40327.0	65°	25812.9	7430.2	2411.4	2672.8	2502.9	2091.2	2091.2	2104.2	2110.8	2176.1
40385.8	67°	24519.0	6436.9	2359.1	2712.0	2502.9	2169.6	2169.6	2182.7	2136.9	2306.8
39928.4	67.5°	23917.8	6142.8	2313.4	2679.3	2483.3	2163.1	2163.1	2169.6	2130.4	2293.8
36719.7	70°	20800.7	4561.4	1993.2	2372.2	2300.3	2104.2	2104.2	2065.0	2032.4	2248.0
31681.3	72.5°	17755.4	3313.2	1601.1	2019.3	2078.1	2025.8	2038.9	1940.9	1849.4	1999.7
24636.7	75°	13599.2	2437.5	1248.2	1555.3	1757.9	1895.1	1980.1	1731.8	1614.1	1653.3
13324.7	77.5°	7587.0	1588.0	986.8	1150.1	1339.7	1764.4	1901.7	1561.8	1320.1	1274.3
4502.6	80°	2574.8	928.0	725.4	856.1	921.4	1561.8	1777.5	1267.8	1039.1	993.3
1522.6	82.5°	973.7	568.5	496.7	588.1	588.1	1235.1	1450.8	973.7	784.2	1012.9
568.5	85°	444.4	339.8	326.7	339.8	339.8	758.1	1026.0	633.9	705.8	607.7
209.1	87.5°	176.4	163.4	150.3	143.8	117.6	130.7	352.9	169.9	320.2	85.0
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





<u>180°</u>
5868.4
4613.7
4391.5
4528.7
4535.2
4613.7
4581.0
4384.9
4280.4
3927.5
3613.8
3195.6
2796.9
2483.3
2221.9
1895.1
1483.4
1333.1
1267.8
1110.9
1026.0
1110.9
1313.5
1490.0
1686.0
1967.0
2182.7
2254.5
2241.5
2202.3
1960.5
1581.5
1274.3
960.6
1032.5
535.9
78.4
0.0

F REPORT)