

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: P575330

Luminaire Tested: **EPH-VN-04-735-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575330
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

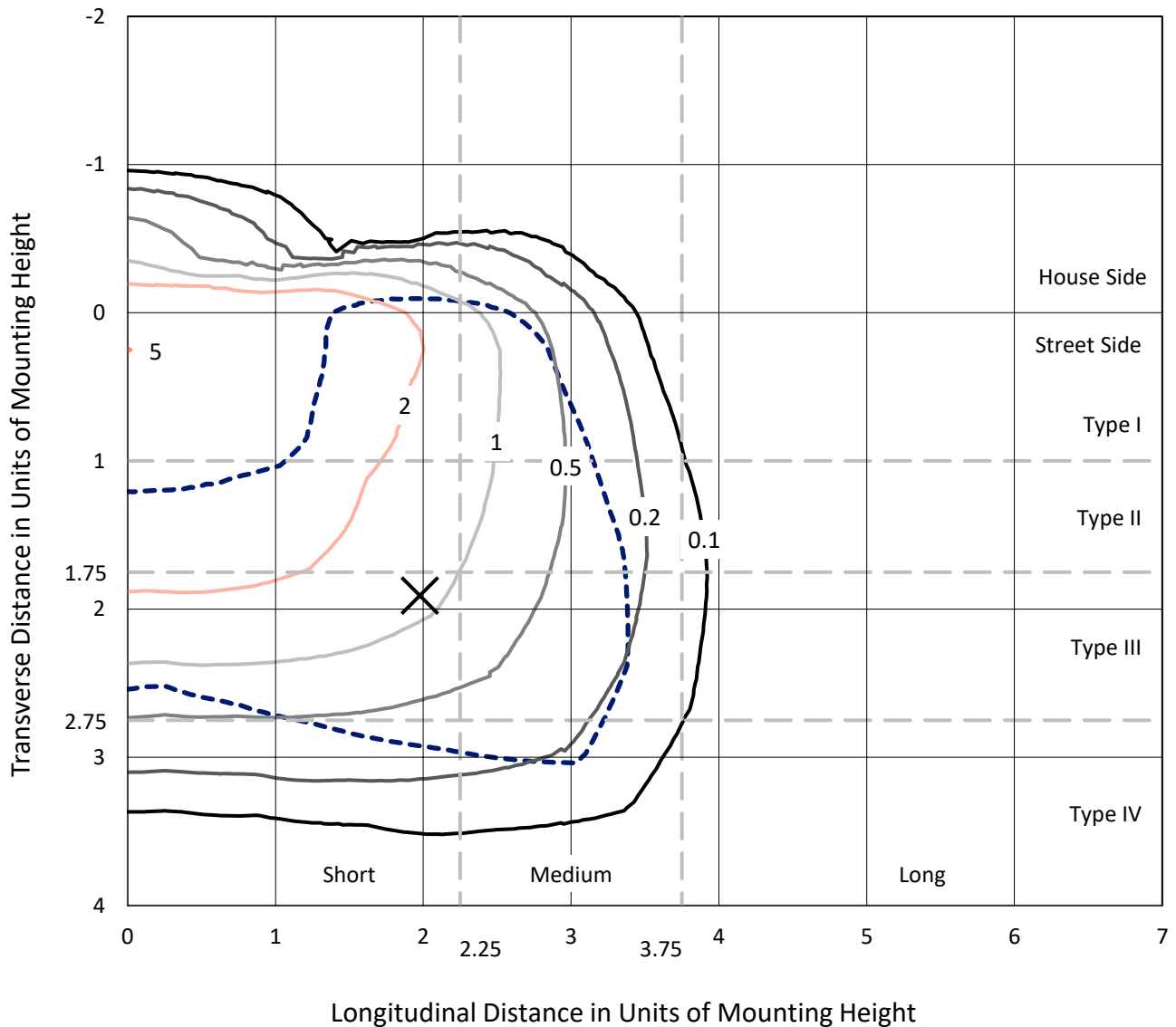
Lumens per Lamp: N/A
Luminaire Lumens: 21993.1 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 241
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: P575330
 CATALOG NUMBER: EPH-VN-04-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

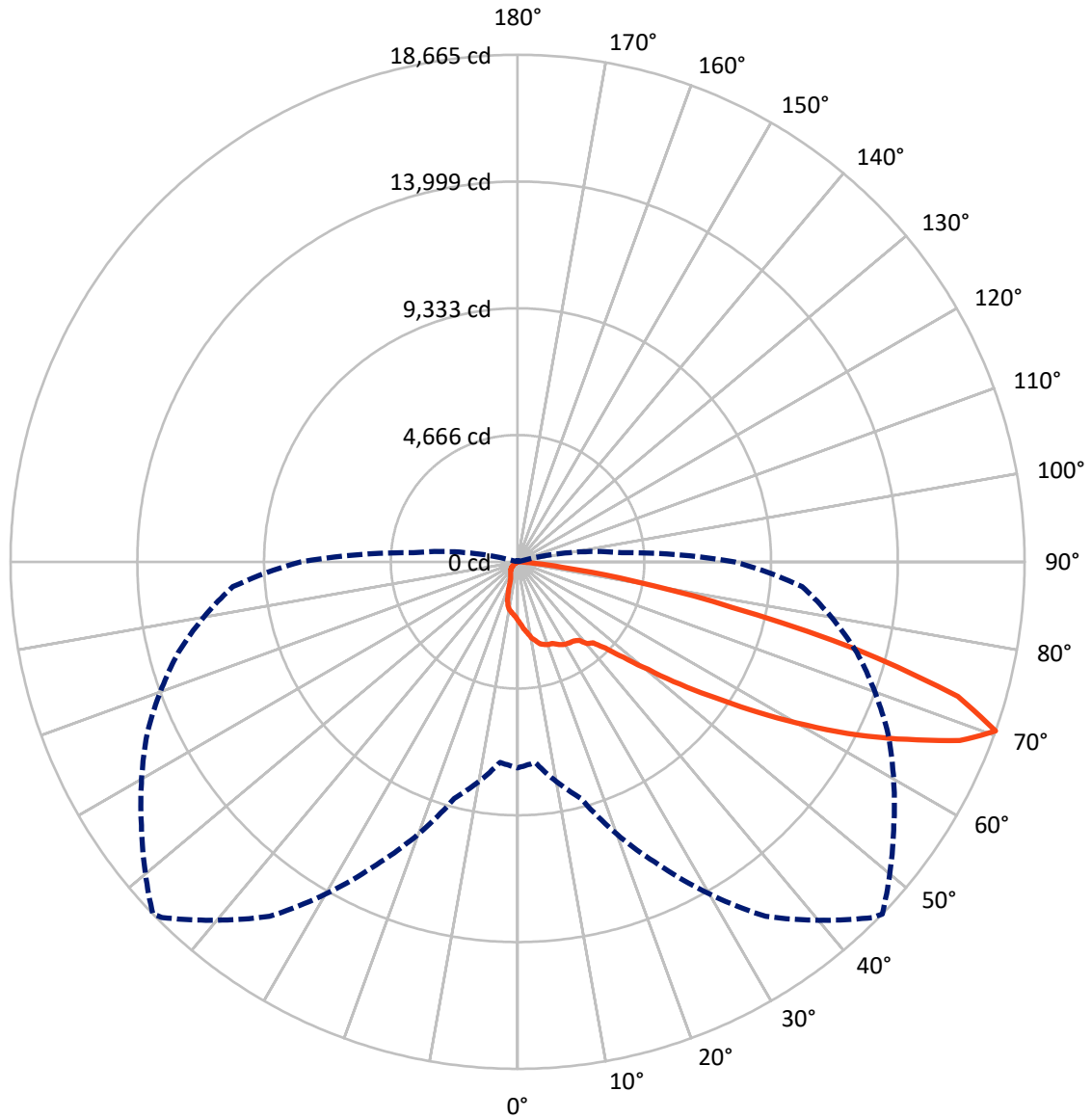
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P575330
CATALOG NUMBER: EPH-VN-04-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P575330
 CATALOG NUMBER: EPH-VN-04-735-U-T4W-HSS

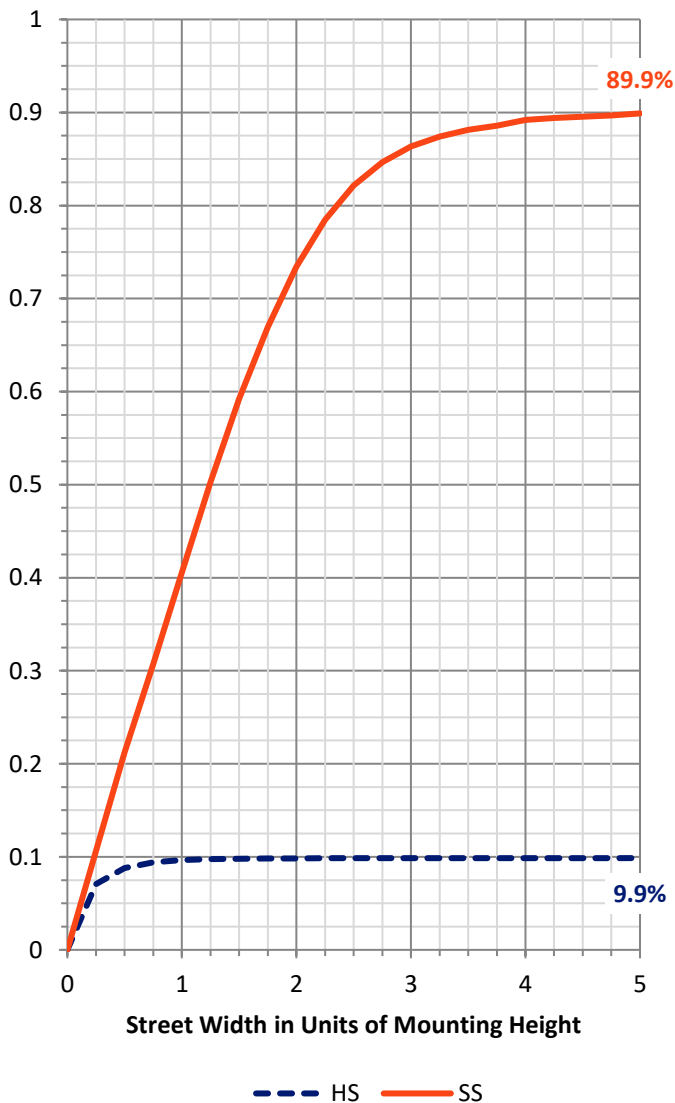
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2188.4	0.0	2188.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	19804.7	0.0	19804.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	21993.1	0.0	21993.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.0
10°-20°	650.1	3.0
20°-30°	1041.4	4.7
30°-40°	1486.4	6.8
40°-50°	2566.6	11.7
50°-60°	4914.0	22.3
60°-70°	7276.9	33.1
70°-80°	3604.2	16.4
80°-90°	238.2	1.1
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°	21993.1	100.0
0°-180°	21993.1	100.0

Coefficient of Utilization

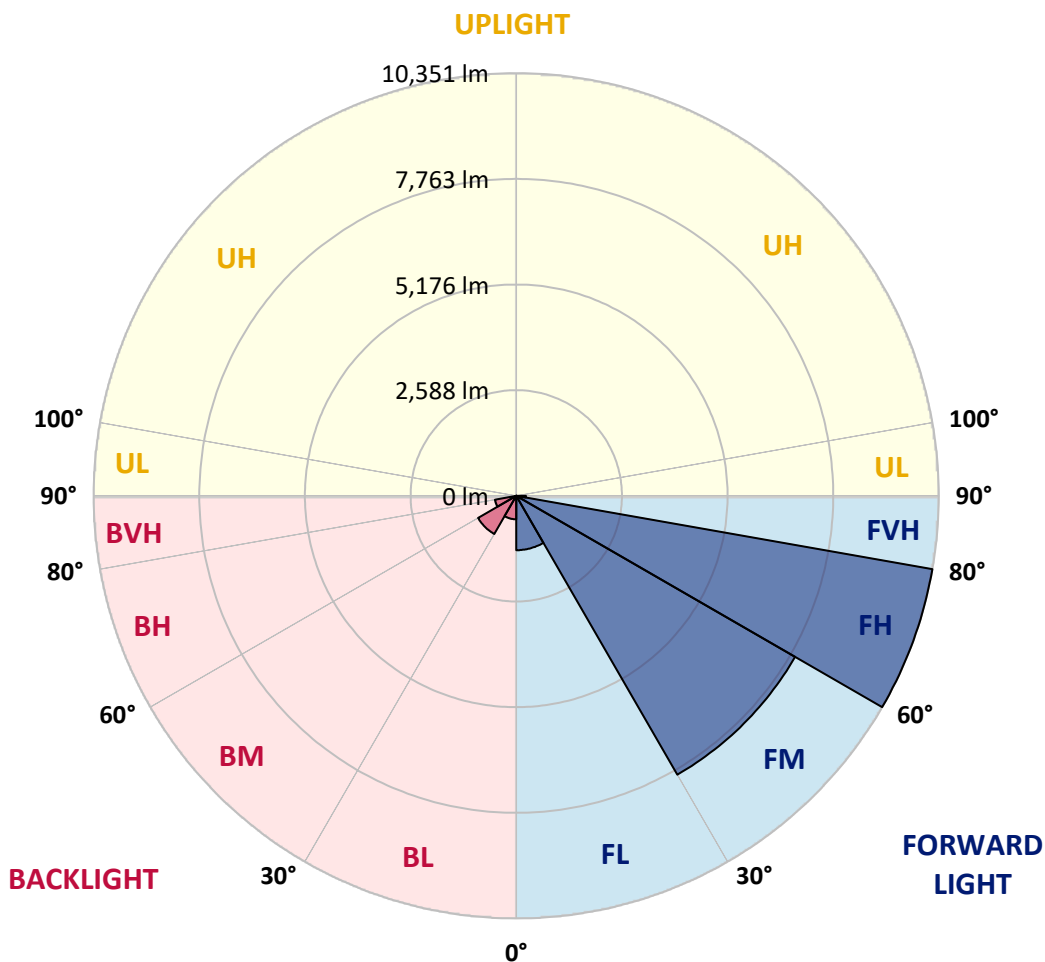


REPORT NUMBER: P575330
 CATALOG NUMBER: EPH-VN-04-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.8	6.1			
FM (30°-60°)	7886.7	35.9			
FH (60°-80°)	10351.1	47.1			G4/12000
FVH (80°-90°)	235.1	1.1			G3/500
BL (0°-30°)	574.9	2.6	B2/1000		
BM (30°-60°)	1080.4	4.9	B2/2500		
BH (60°-80°)	530.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





REPORT NUMBER: P575330
 CATALOG NUMBER: EPH-VN-04-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0
2.5°	2409.1	2393.3	2368.0	2358.5	2333.2	2320.5	2301.5	2292.0	2257.2	2222.4
5°	2703.5	2665.6	2678.2	2640.2	2557.9	2491.4	2488.3	2415.5	2336.3	2273.0
7.5°	3001.1	2969.5	2922.0	2868.2	2776.4	2678.2	2649.7	2580.1	2469.3	2358.5
10°	3225.9	3203.7	3162.6	3086.6	2960.0	2849.2	2852.3	2735.2	2618.1	2491.4
12.5°	3365.2	3374.7	3314.5	3238.6	3127.8	2988.5	2985.3	2906.2	2773.2	2640.2
15°	3504.5	3539.3	3447.5	3358.9	3216.4	3115.1	3134.1	3039.1	2909.3	2757.4
17.5°	3526.6	3536.1	3517.1	3387.3	3282.9	3197.4	3200.6	3137.3	3039.1	2874.5
20°	3488.6	3482.3	3460.2	3365.2	3295.5	3244.9	3248.1	3232.2	3178.4	3045.4
22.5°	3377.8	3377.8	3349.4	3286.0	3254.4	3301.9	3263.9	3324.0	3267.0	3187.9
25°	3289.2	3324.0	3308.2	3267.0	3279.7	3343.0	3362.0	3419.0	3409.5	3311.4
27.5°	3384.2	3343.0	3352.5	3305.0	3352.5	3447.5	3457.0	3498.1	3495.0	3415.8
30°	3447.5	3485.5	3412.7	3308.2	3358.9	3520.3	3514.0	3567.8	3593.1	3498.1
32.5°	3650.1	3618.4	3558.3	3419.0	3425.3	3517.1	3545.6	3615.3	3631.1	3574.1
35°	4064.8	4017.3	3754.6	3545.6	3514.0	3558.3	3577.3	3713.4	3741.9	3678.6
37.5°	4704.3	4596.7	4280.1	3817.9	3675.4	3665.9	3665.9	3846.4	3954.0	3808.4
40°	5619.2	5467.2	5125.3	4321.2	3887.5	3925.5	3963.5	4061.6	4049.0	3954.0
42.5°	6784.2	6667.1	6296.7	5166.5	4292.7	4102.8	4071.1	4204.1	4403.5	4365.6
45°	7756.1	7762.4	7525.0	6325.2	4992.4	4511.2	4533.3	4634.6	4970.2	4941.7
47.5°	8465.2	8376.6	8341.7	7442.7	6011.7	5286.8	5255.1	5324.8	5761.7	5942.1
50°	9111.0	9050.9	8968.6	8528.5	7236.9	6258.7	6227.0	6233.3	6901.3	7154.6
52.5°	9911.9	9987.9	9715.7	9446.6	8822.9	7521.8	7487.0	7363.5	8192.9	8541.2
55°	10899.7	10757.2	10450.1	10589.4	10339.3	8886.2	8822.9	8677.3	9665.0	9810.6
57.5°	11118.1	11010.5	11327.0	11820.9	12061.5	10488.1	10462.8	10200.0	10902.8	10769.9
60°	11662.6	11691.1	12131.1	13112.5	13530.4	12336.9	12213.4	11751.2	12102.6	12128.0
62.5°	12222.9	12156.5	13141.0	14084.4	14727.0	14087.6	14046.4	13128.3	13527.2	13204.3
65°	11811.4	11912.7	13321.4	14901.2	16278.3	15800.2	15765.4	14454.8	14673.2	14271.2
67.5°	10348.8	10143.0	12115.3	14527.6	17076.0	17595.2	17557.2	15901.5	15319.0	14264.8
70°	7585.1	7407.8	9016.0	12302.1	15933.2	18513.3	18665.2	16908.2	15056.3	12935.2
72.5°	3716.6	3719.7	5052.5	8341.7	12606.0	16873.4	16949.4	15502.6	12935.2	9535.2
75°	1098.5	1111.2	1871.0	4090.1	8148.6	12814.9	12900.4	11767.1	8965.4	4925.9
77.5°	402.0	402.0	620.5	1535.4	4064.8	8088.5	8082.1	7224.2	4539.7	1668.3
80°	208.9	218.4	322.9	626.8	1760.2	4213.6	4371.9	3536.1	1725.3	702.8
82.5°	85.5	95.0	177.3	322.9	845.3	1478.4	1617.7	1386.6	750.3	490.7
85°	25.3	28.5	85.5	180.4	332.4	370.4	411.5	465.4	471.7	379.9
87.5°	3.2	3.2	34.8	60.1	72.8	79.1	91.8	91.8	240.6	265.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575330

CATALOG NUMBER: EPH-VN-04-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2159.0	0°	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0	2159.0
2200.2	2.5°	2174.9	2159.0	2133.7	2076.7	2064.1	2022.9	2019.7	1981.8	1994.4	1969.1
2187.5	5°	2159.0	2124.2	2054.6	2010.2	1965.9	1937.4	1918.4	1902.6	1899.4	1886.8
2244.5	7.5°	2187.5	2140.0	2032.4	1962.8	1886.8	1861.5	1820.3	1817.1	1795.0	1772.8
2336.3	10°	2282.5	2197.0	2079.9	1962.8	1864.6	1782.3	1687.3	1617.7	1592.4	1535.4
2456.6	12.5°	2358.5	2282.5	2111.6	1991.3	1842.5	1655.7	1446.7	1285.3	1209.3	1136.5
2554.8	15°	2466.1	2355.3	2171.7	1997.6	1757.0	1434.1	1092.2	911.7	842.1	826.3
2700.4	17.5°	2583.2	2466.1	2247.7	1981.8	1582.9	1108.0	804.1	699.6	712.3	731.3
2808.0	20°	2713.0	2570.6	2304.7	1927.9	1307.5	804.1	658.5	655.3	674.3	702.8
2991.6	22.5°	2849.2	2725.7	2374.3	1766.5	975.0	645.8	633.1	633.1	645.8	680.6
3118.3	25°	3001.1	2836.5	2409.1	1516.4	699.6	595.2	601.5	614.2	620.5	649.0
3232.2	27.5°	3118.3	2960.0	2418.6	1215.6	569.8	550.8	566.7	582.5	592.0	614.2
3339.9	30°	3225.9	3115.1	2368.0	905.4	522.3	512.9	519.2	541.3	560.3	579.3
3444.3	32.5°	3362.0	3203.7	2250.8	642.6	493.9	478.0	474.9	484.4	506.5	528.7
3555.1	35°	3501.3	3352.5	2064.1	516.0	468.5	446.4	433.7	424.2	433.7	449.5
3719.7	37.5°	3703.9	3577.3	1829.8	474.9	449.5	417.9	392.6	370.4	354.6	351.4
3935.0	40°	3992.0	3830.5	1529.1	446.4	427.4	389.4	351.4	313.4	278.6	256.4
4352.9	42.5°	4428.9	4204.1	1203.0	430.5	411.5	357.7	303.9	250.1	205.8	183.6
4938.6	45°	5052.5	4698.0	883.2	414.7	392.6	319.7	250.1	186.8	142.5	129.8
6024.4	47.5°	5992.8	5293.1	633.1	389.4	367.2	278.6	196.3	133.0	104.5	98.1
7357.2	50°	7221.1	5999.1	493.9	360.9	335.6	234.3	145.6	98.1	82.3	79.1
8781.8	52.5°	8509.5	6711.4	433.7	335.6	288.1	186.8	107.6	79.1	69.6	66.5
10063.9	55°	9611.2	7170.4	376.7	297.6	231.1	139.3	85.5	69.6	60.1	50.7
11485.3	57.5°	10725.5	7401.5	297.6	246.9	171.0	104.5	72.8	60.1	50.7	41.2
12890.9	60°	11630.9	7566.1	212.1	183.6	120.3	82.3	63.3	53.8	41.2	31.7
14214.2	62.5°	12226.1	7094.4	155.1	139.3	88.6	69.6	53.8	44.3	31.7	22.2
14752.4	65°	11931.7	6442.3	120.3	98.1	66.5	53.8	44.3	31.7	22.2	12.7
13634.9	67.5°	10706.5	5248.8	98.1	72.8	50.7	41.2	34.8	25.3	12.7	3.2
10519.8	70°	7987.2	3846.4	79.1	53.8	41.2	31.7	25.3	15.8	6.3	3.2
5957.9	72.5°	4368.7	2105.2	63.3	44.3	31.7	25.3	19.0	12.7	6.3	0.0
2032.4	75°	1443.6	560.3	47.5	31.7	19.0	15.8	12.7	9.5	3.2	0.0
474.9	77.5°	348.2	145.6	38.0	28.5	15.8	9.5	6.3	3.2	3.2	0.0
139.3	80°	107.6	60.1	28.5	19.0	12.7	9.5	3.2	0.0	0.0	0.0
63.3	82.5°	44.3	28.5	12.7	12.7	9.5	3.2	0.0	0.0	0.0	0.0
28.5	85°	22.2	15.8	9.5	6.3	6.3	3.2	0.0	0.0	0.0	0.0
15.8	87.5°	15.8	6.3	3.2	3.2	0.0	0.0	0.0	0.0	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°
2159.0
1959.6
1880.5
1772.8
1541.7
1165.0
823.1
728.1
709.1
674.3
652.1
623.7
579.3
528.7
462.2
360.9
259.6
183.6
133.0
101.3
82.3
69.6
50.7
38.0
28.5
22.2
9.5
3.2
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

F REPORT)