

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: P575332

Luminaire Tested: **EPH-VN-06-735-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575332
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

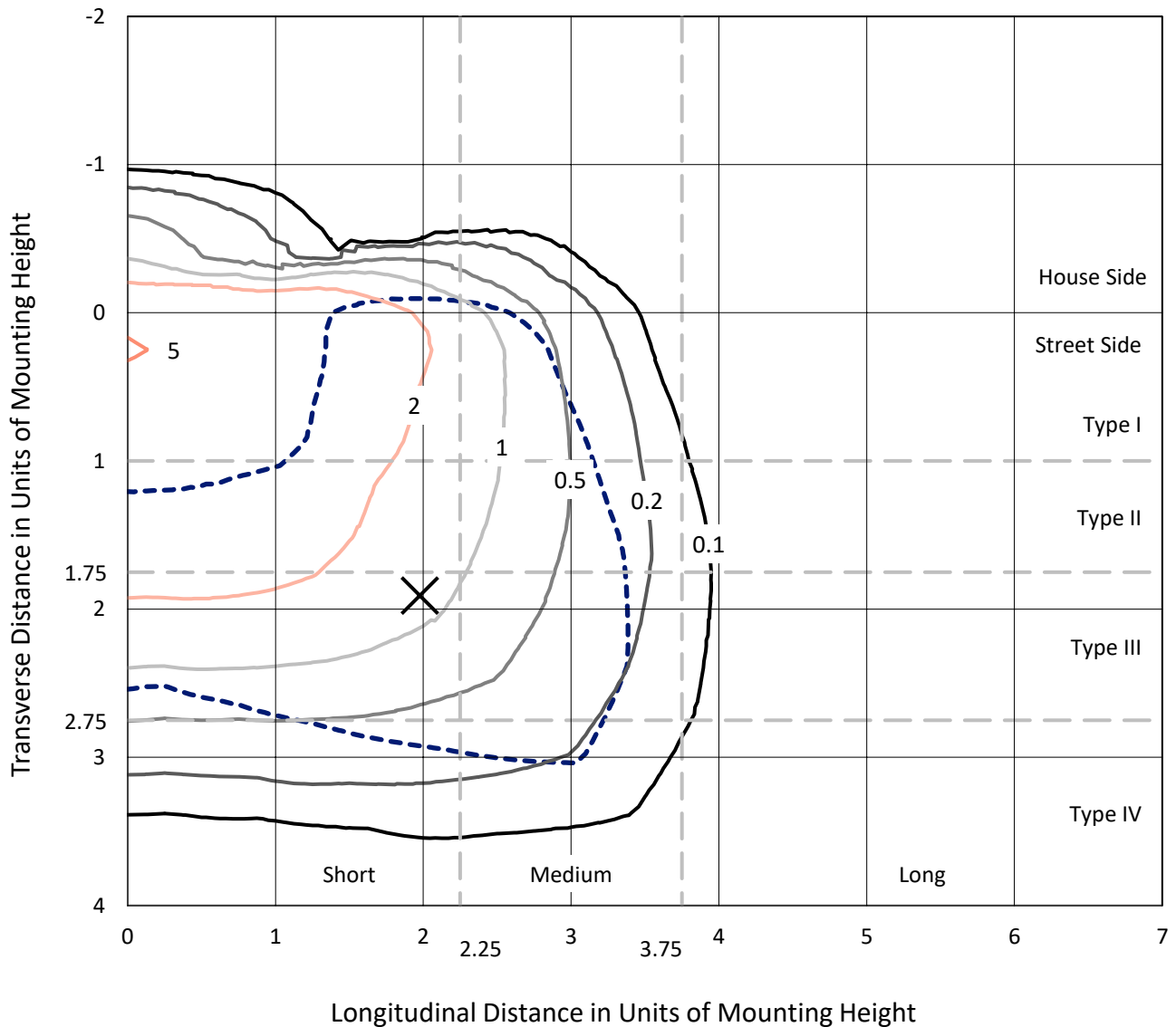
Lumens per Lamp: N/A
Luminaire Lumens: 33273.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2
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: P575332
 CATALOG NUMBER: EPH-VN-06-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

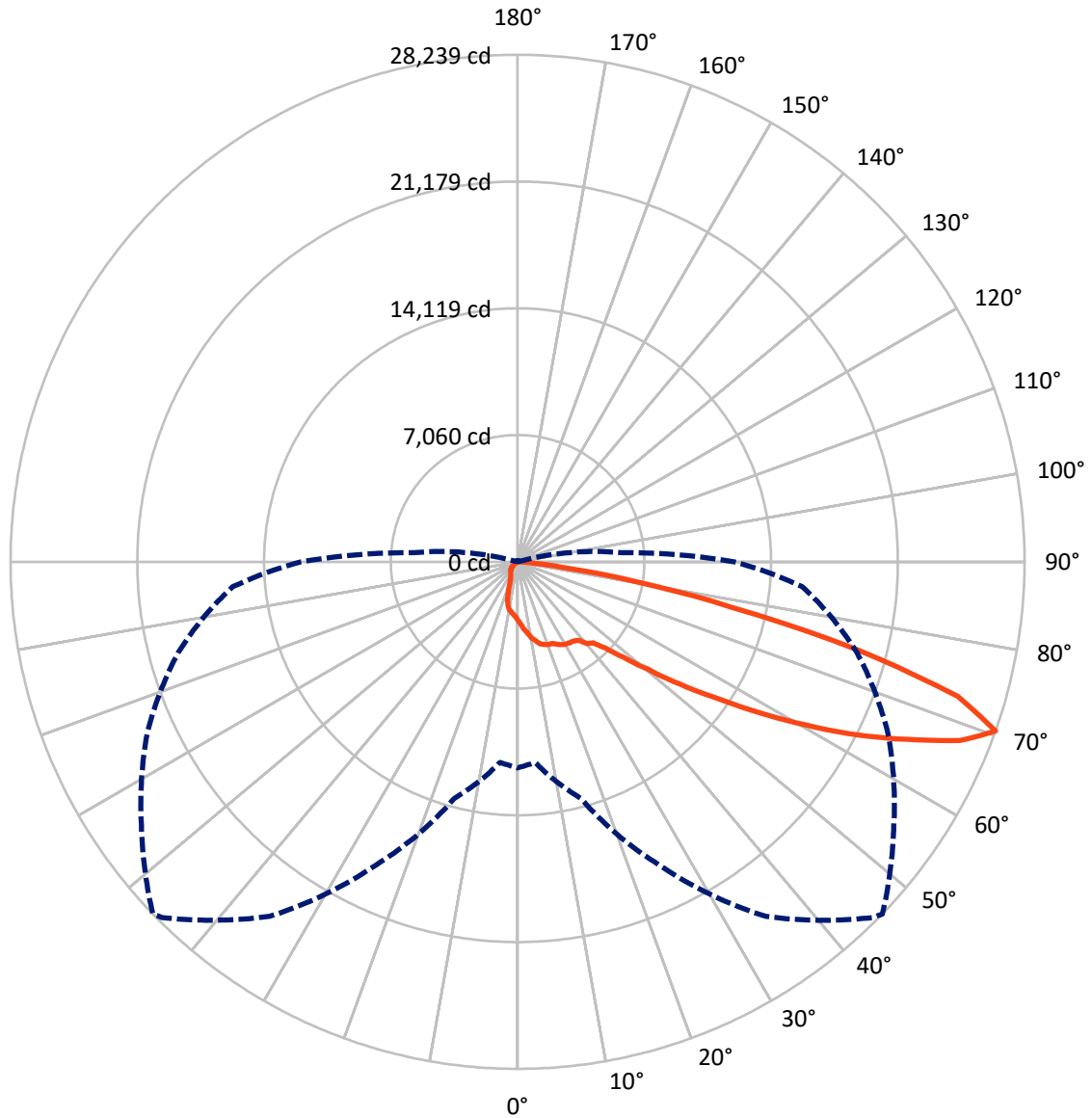
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P575332
CATALOG NUMBER: EPH-VN-06-735-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575332
 CATALOG NUMBER: EPH-VN-06-735-U-T4W-HSS

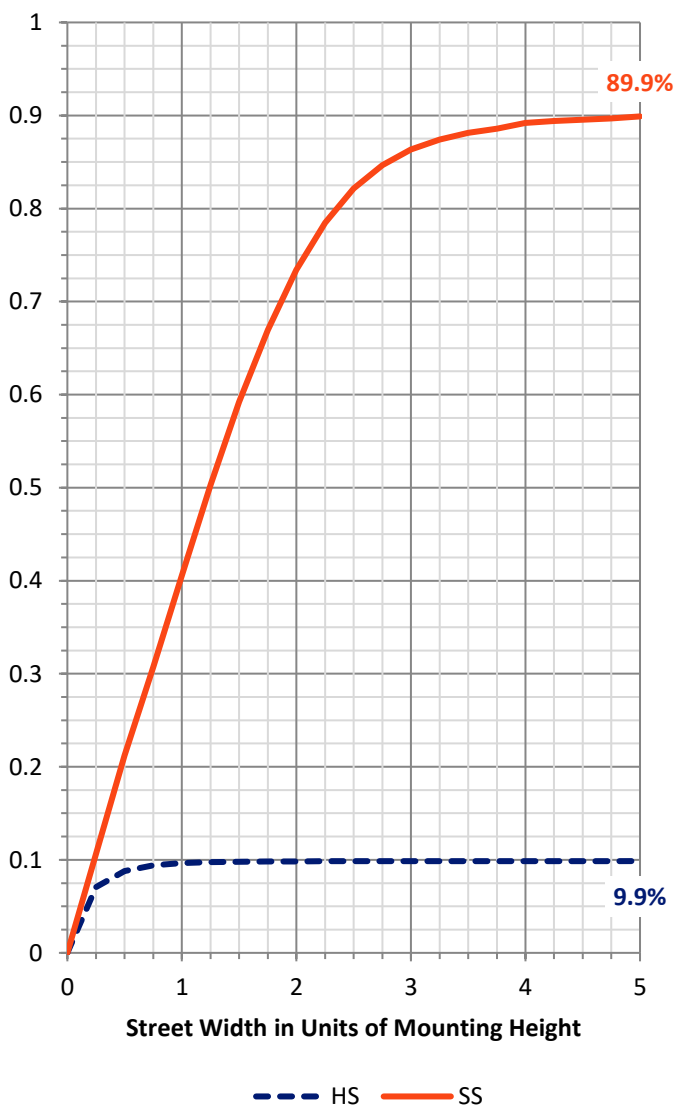
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3310.8	0.0	3310.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	29962.4	0.0	29962.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	33273.2	0.0	33273.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	1.0
10°-20°	983.6	3.0
20°-30°	1575.5	4.7
30°-40°	2248.8	6.8
40°-50°	3883.0	11.7
50°-60°	7434.4	22.3
60°-70°	11009.2	33.1
70°-80°	5452.7	16.4
80°-90°	360.3	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°	33273.2	100.0
0°-180°	33273.2	100.0

Coefficient of Utilization

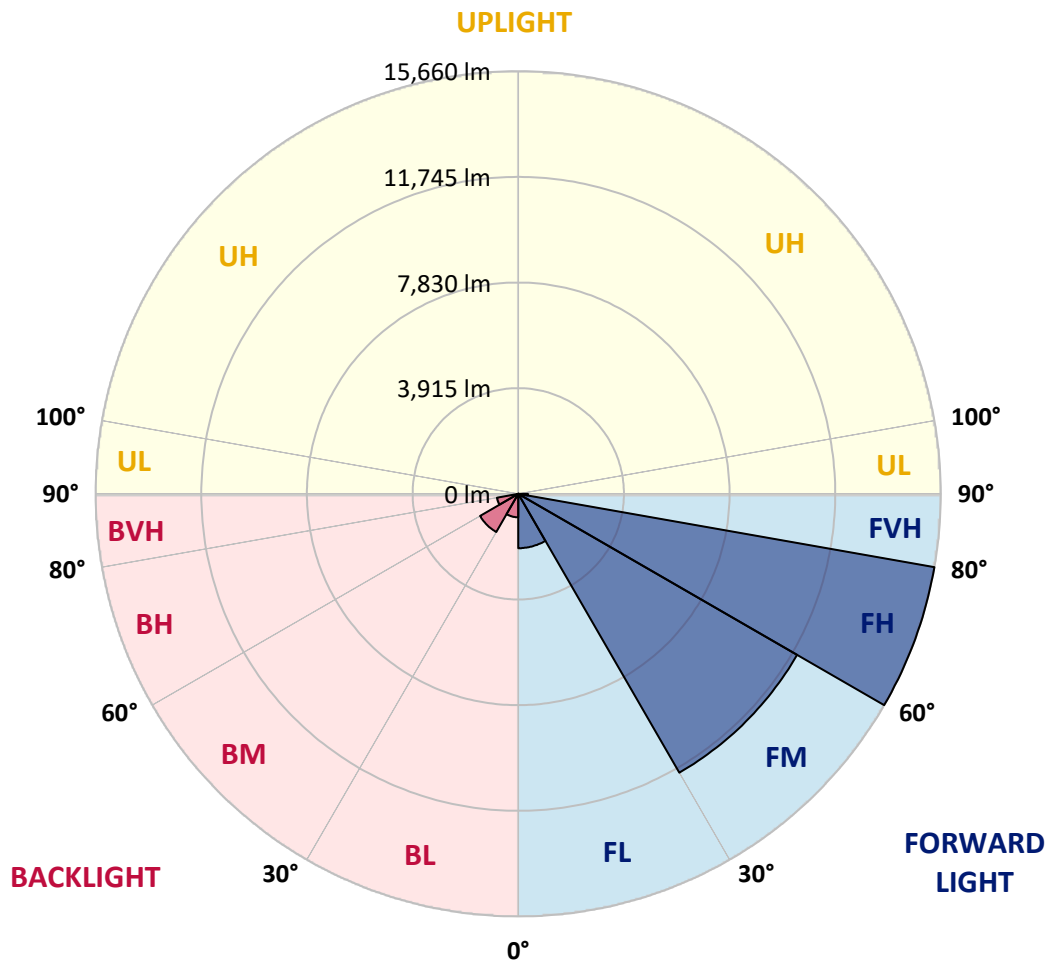


REPORT NUMBER: P575332
 CATALOG NUMBER: EPH-VN-06-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2014.9	6.1			
FM (30°-60°)	11931.7	35.9			
FH (60°-80°)	15660.1	47.1			G5
FVH (80°-90°)	355.7	1.1			G3/500
BL (0°-30°)	869.8	2.6	B2/1000		
BM (30°-60°)	1634.5	4.9	B2/2500		
BH (60°-80°)	801.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.6	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-G5
 Type IV Short





REPORT NUMBER: P575332
 CATALOG NUMBER: EPH-VN-06-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4
2.5°	3644.8	3620.8	3582.5	3568.1	3529.8	3510.7	3481.9	3467.6	3414.9	3362.2
5°	4090.2	4032.7	4051.9	3994.4	3869.9	3769.3	3764.5	3654.3	3534.6	3438.8
7.5°	4540.4	4492.5	4420.6	4339.2	4200.3	4051.9	4008.8	3903.4	3735.8	3568.1
10°	4880.4	4846.9	4784.6	4669.7	4478.1	4310.5	4315.3	4138.1	3960.9	3769.3
12.5°	5091.2	5105.5	5014.5	4899.6	4732.0	4521.2	4516.4	4396.7	4195.5	3994.4
15°	5301.9	5354.6	5215.7	5081.6	4866.1	4712.8	4741.5	4597.9	4401.5	4171.6
17.5°	5335.4	5349.8	5321.1	5124.7	4966.6	4837.3	4842.1	4746.3	4597.9	4348.8
20°	5278.0	5268.4	5234.9	5091.2	4985.8	4909.2	4914.0	4890.0	4808.6	4607.4
22.5°	5110.3	5110.3	5067.2	4971.4	4923.5	4995.4	4937.9	5028.9	4942.7	4823.0
25°	4976.2	5028.9	5005.0	4942.7	4961.9	5057.6	5086.4	5172.6	5158.2	5009.7
27.5°	5119.9	5057.6	5072.0	5000.2	5072.0	5215.7	5230.1	5292.3	5287.5	5167.8
30°	5215.7	5273.2	5163.0	5005.0	5081.6	5325.9	5316.3	5397.7	5436.0	5292.3
32.5°	5522.2	5474.3	5383.3	5172.6	5182.2	5321.1	5364.2	5469.5	5493.5	5407.3
35°	6149.6	6077.8	5680.3	5364.2	5316.3	5383.3	5412.1	5618.0	5661.1	5565.3
37.5°	7117.1	6954.3	6475.3	5776.1	5560.5	5546.2	5546.2	5819.2	5982.0	5761.7
40°	8501.2	8271.4	7754.1	6537.6	5881.4	5938.9	5996.4	6144.8	6125.7	5982.0
42.5°	10263.8	10086.5	9526.2	7816.4	6494.5	6207.1	6159.2	6360.4	6662.1	6604.6
45°	11734.1	11743.7	11384.5	9569.3	7552.9	6824.9	6858.5	7011.7	7519.4	7476.3
47.5°	12806.9	12672.8	12620.2	11260.0	9095.1	7998.4	7950.5	8055.8	8716.8	8989.8
50°	13784.0	13693.0	13568.5	12902.7	10948.6	9468.7	9420.8	9430.4	10441.0	10824.1
52.5°	14995.7	15110.7	14698.8	14291.7	13348.2	11379.7	11327.0	11140.2	12395.1	12921.9
55°	16490.0	16274.5	15809.9	16020.7	15642.3	13443.9	13348.2	13127.8	14622.1	14842.5
57.5°	16820.5	16657.7	17136.6	17883.7	18247.7	15867.4	15829.1	15431.6	16494.8	16293.7
60°	17644.3	17687.4	18353.1	19837.8	20470.0	18664.4	18477.6	17778.4	18310.0	18348.3
62.5°	18492.0	18391.4	19880.9	21308.2	22280.4	21313.0	21250.7	19861.8	20465.3	19976.7
65°	17869.4	18022.6	20153.9	22543.9	24627.3	23904.1	23851.4	21868.6	22199.0	21590.8
67.5°	15656.7	15345.3	18329.2	21978.7	25834.2	26619.7	26562.2	24057.3	23176.1	21581.2
70°	11475.5	11207.3	13640.3	18611.7	24105.2	28008.6	28238.5	25580.4	22778.5	19569.6
72.5°	5622.8	5627.6	7643.9	12620.2	19071.5	25527.7	25642.6	23453.9	19569.6	14425.8
75°	1661.9	1681.1	2830.6	6187.9	12328.0	19387.6	19516.9	17802.3	13563.7	7452.4
77.5°	608.3	608.3	938.7	2322.9	6149.6	12237.0	12227.4	10929.5	6868.0	2524.0
80°	316.1	330.5	488.5	948.3	2662.9	6374.7	6614.2	5349.8	2610.2	1063.3
82.5°	129.3	143.7	268.2	488.5	1278.8	2236.7	2447.4	2097.8	1135.1	742.4
85°	38.3	43.1	129.3	273.0	502.9	560.4	622.6	704.0	713.6	574.7
87.5°	4.8	4.8	52.7	91.0	110.2	119.7	138.9	138.9	364.0	402.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575332

CATALOG NUMBER: EPH-VN-06-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3266.4	0°	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4
3328.7	2.5°	3290.3	3266.4	3228.1	3141.9	3122.7	3060.4	3055.7	2998.2	3017.3	2979.0
3309.5	5°	3266.4	3213.7	3108.3	3041.3	2974.2	2931.1	2902.4	2878.5	2873.7	2854.5
3395.7	7.5°	3309.5	3237.7	3074.8	2969.4	2854.5	2816.2	2753.9	2749.1	2715.6	2682.1
3534.6	10°	3453.2	3323.9	3146.7	2969.4	2821.0	2696.5	2552.8	2447.4	2409.1	2322.9
3716.6	12.5°	3568.1	3453.2	3194.6	3012.6	2787.5	2504.9	2188.8	1944.5	1829.6	1719.4
3865.1	15°	3731.0	3563.3	3285.6	3022.1	2658.1	2169.6	1652.4	1379.4	1274.0	1250.0
4085.4	17.5°	3908.2	3731.0	3400.5	2998.2	2394.7	1676.3	1216.5	1058.5	1077.6	1106.4
4248.2	20°	4104.5	3889.0	3486.7	2916.8	1978.0	1216.5	996.2	991.4	1020.1	1063.3
4526.0	22.5°	4310.5	4123.7	3592.1	2672.5	1475.1	977.0	957.9	957.9	977.0	1029.7
4717.6	25°	4540.4	4291.3	3644.8	2294.1	1058.5	900.4	910.0	929.2	938.7	981.8
4890.0	27.5°	4717.6	4478.1	3659.1	1839.1	862.1	833.4	857.3	881.3	895.6	929.2
5052.9	30°	4880.4	4712.8	3582.5	1369.8	790.3	775.9	785.5	819.0	847.7	876.5
5210.9	32.5°	5086.4	4846.9	3405.3	972.3	747.2	723.2	718.4	732.8	766.3	799.8
5378.5	35°	5297.1	5072.0	3122.7	780.7	708.8	675.3	656.2	641.8	656.2	680.1
5627.6	37.5°	5603.6	5412.1	2768.3	718.4	680.1	632.2	593.9	560.4	536.4	531.6
5953.3	40°	6039.5	5795.2	2313.3	675.3	646.6	589.1	531.6	474.2	421.5	387.9
6585.5	42.5°	6700.4	6360.4	1820.0	651.4	622.6	541.2	459.8	378.4	311.3	277.8
7471.5	45°	7643.9	7107.5	1336.3	627.4	593.9	483.7	378.4	282.6	215.5	196.4
9114.3	47.5°	9066.4	8007.9	957.9	589.1	555.6	421.5	296.9	201.2	158.1	148.5
11130.6	50°	10924.7	9076.0	747.2	546.0	507.7	354.4	220.3	148.5	124.5	119.7
13285.9	52.5°	12874.0	10153.6	656.2	507.7	435.8	282.6	162.8	119.7	105.4	100.6
15225.6	55°	14540.7	10848.1	569.9	450.2	349.6	210.7	129.3	105.4	91.0	76.6
17376.1	57.5°	16226.6	11197.7	450.2	373.6	258.6	158.1	110.2	91.0	76.6	62.3
19502.6	60°	17596.4	11446.7	320.9	277.8	182.0	124.5	95.8	81.4	62.3	47.9
21504.6	62.5°	18496.8	10733.1	234.7	210.7	134.1	105.4	81.4	67.1	47.9	33.5
22318.8	65°	18051.4	9746.5	182.0	148.5	100.6	81.4	67.1	47.9	33.5	19.2
20628.1	67.5°	16197.9	7940.9	148.5	110.2	76.6	62.3	52.7	38.3	19.2	4.8
15915.3	70°	12083.7	5819.2	119.7	81.4	62.3	47.9	38.3	23.9	9.6	4.8
9013.7	72.5°	6609.4	3185.0	95.8	67.1	47.9	38.3	28.7	19.2	9.6	0.0
3074.8	75°	2184.0	847.7	71.8	47.9	28.7	23.9	19.2	14.4	4.8	0.0
718.4	77.5°	526.8	220.3	57.5	43.1	23.9	14.4	9.6	4.8	4.8	0.0
210.7	80°	162.8	91.0	43.1	28.7	19.2	14.4	4.8	0.0	0.0	0.0
95.8	82.5°	67.1	43.1	19.2	19.2	14.4	4.8	0.0	0.0	0.0	0.0
43.1	85°	33.5	23.9	14.4	9.6	9.6	4.8	0.0	0.0	0.0	0.0
23.9	87.5°	23.9	9.6	4.8	4.8	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°
3266.4
2964.7
2844.9
2682.1
2332.5
1762.5
1245.3
1101.6
1072.8
1020.1
986.6
943.5
876.5
799.8
699.3
546.0
392.7
277.8
201.2
153.3
124.5
105.4
76.6
57.5
43.1
33.5
14.4
4.8
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

F REPORT)