

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: STREETWORKS

Report Number: P477520

Luminaire Tested: **IFLD-L-SA7C-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477520
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

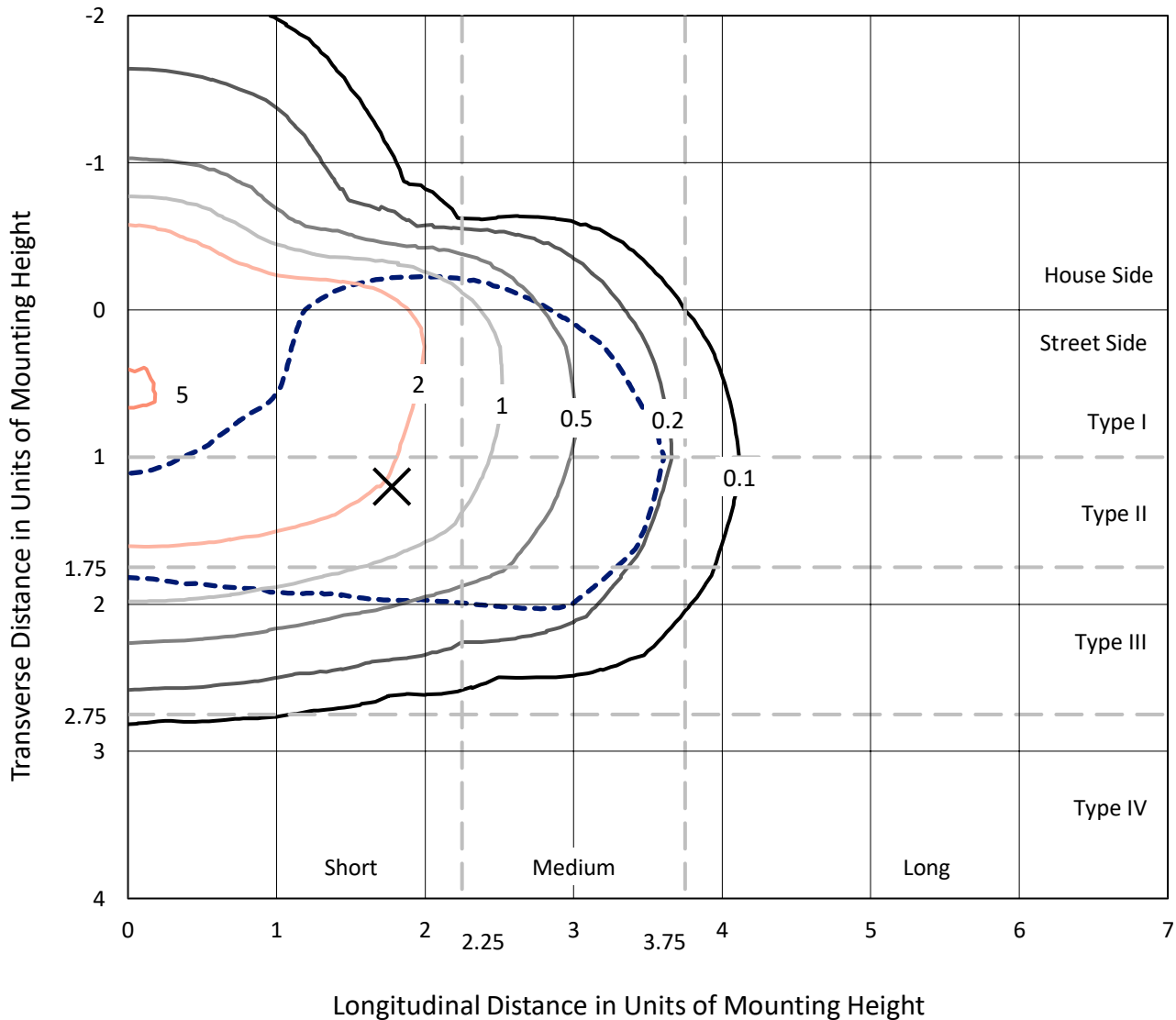
Lumens per Lamp: N/A
Luminaire Lumens: 33191.1 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 369
Input Voltage (V): 120
Input Current (A_{in}): 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: P477520
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

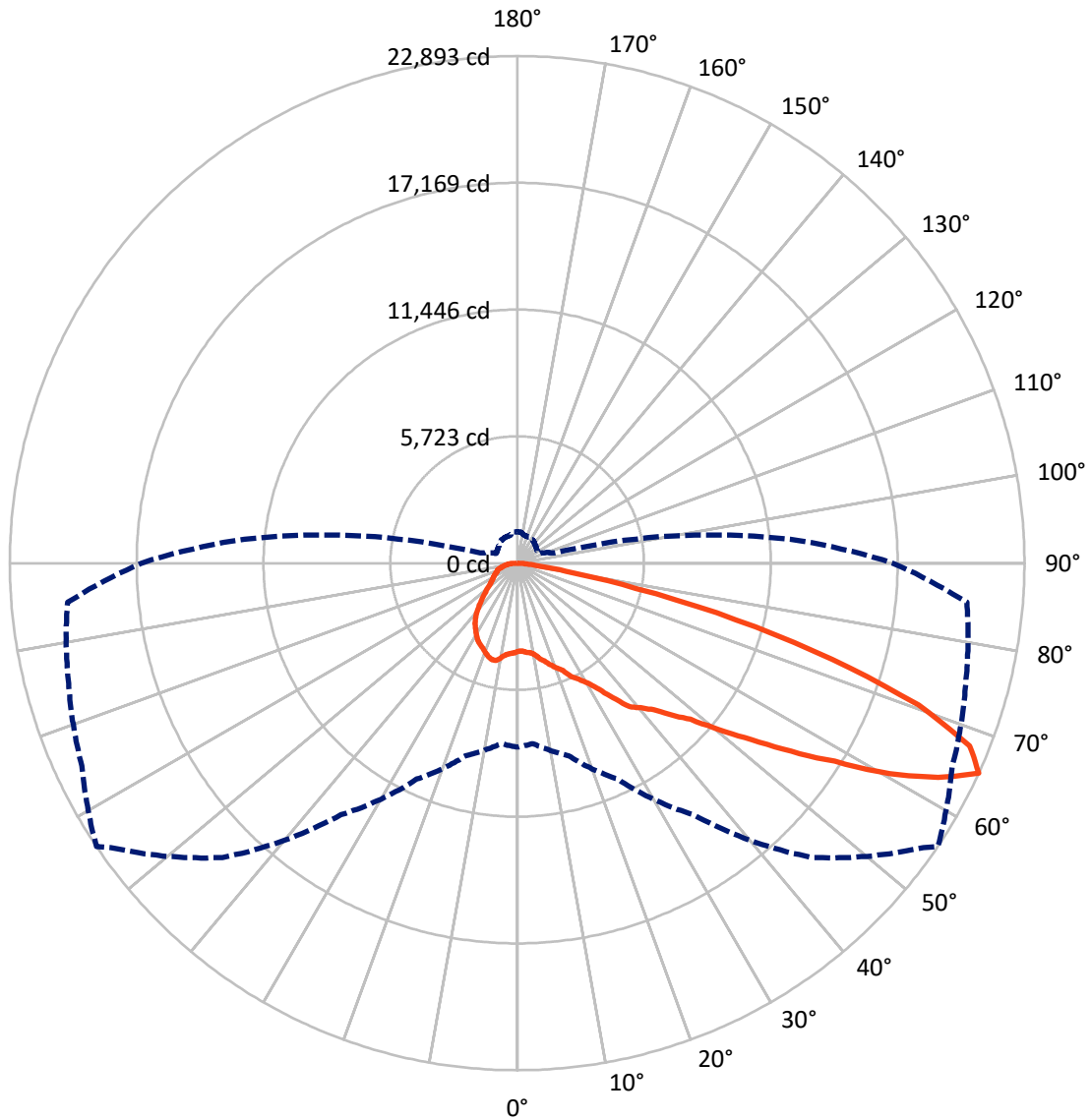
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P477520
CATALOG NUMBER: IFLD-L-SA7C-827-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477520
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T3

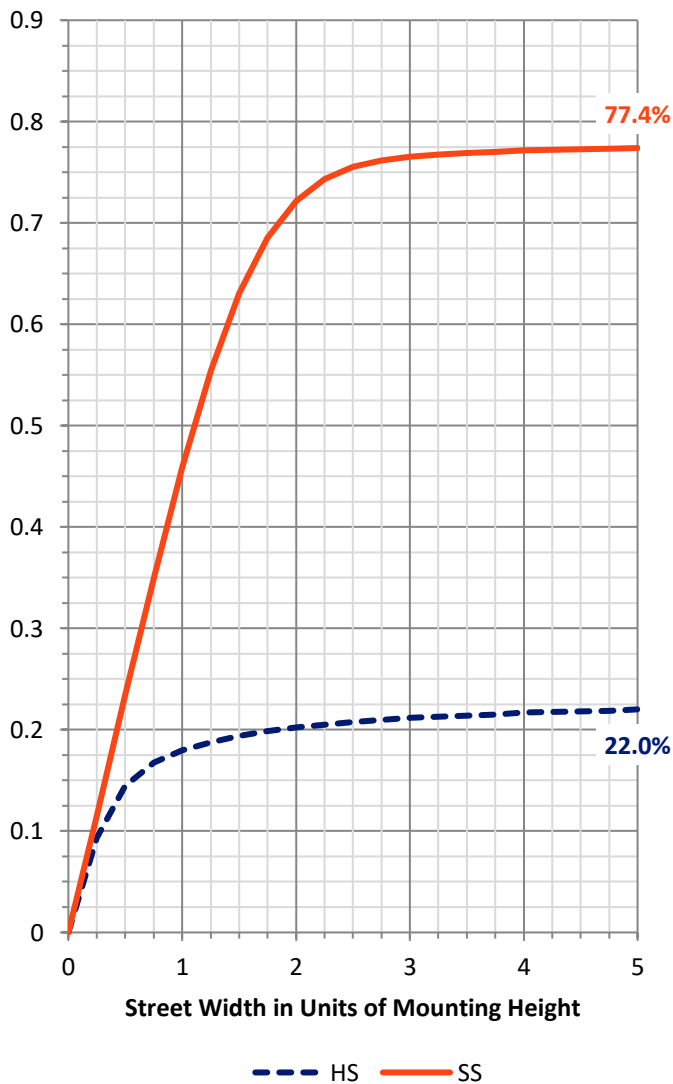
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7443.7	0.0	7443.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	25747.4	0.0	25747.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	33191.1	0.0	33191.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	1.2
10°-20°	1281.9	3.9
20°-30°	2282.6	6.9
30°-40°	3418.1	10.3
40°-50°	5064.3	15.3
50°-60°	7803.4	23.5
60°-70°	8834.4	26.6
70°-80°	3666.4	11.0
80°-90°	445.4	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°	33191.1	100.0
0°-180°	33191.1	100.0

Coefficient of Utilization



REPORT NUMBER: P477520

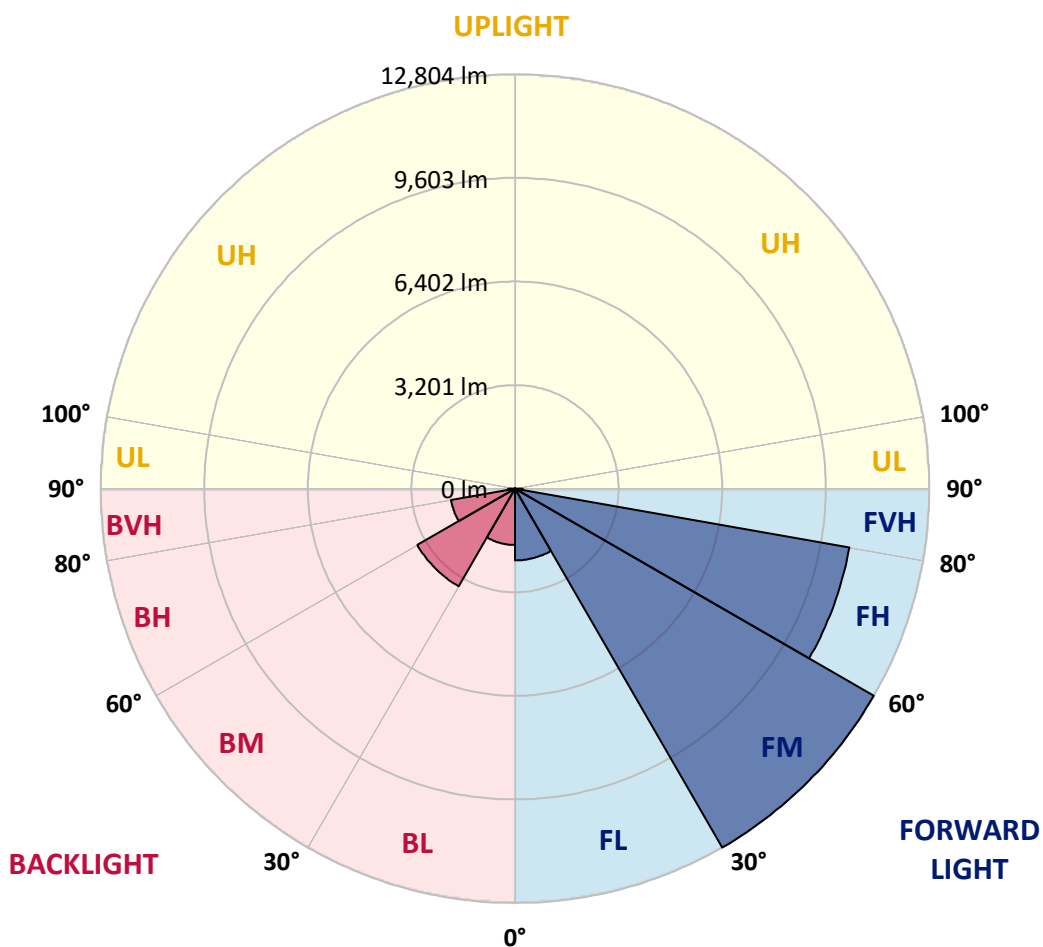
CATALOG NUMBER: IFLD-L-SA7C-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.1	6.7			
FM (30°-60°)	12803.7	38.6			
FH (60°-80°)	10490.7	31.6			G4/12000
FVH (80°-90°)	234.9	0.7			G3/500
BL (0°-30°)	1741.1	5.2	B3/2500		
BM (30°-60°)	3482.0	10.5	B3/5000		
BH (60°-80°)	2010.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	210.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P477520
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9
2.5°	3879.7	3900.5	3886.6	3928.3	3963.0	3963.0	3990.8	3970.0	3997.8	4036.0
5°	4008.2	3924.8	3970.0	3990.8	3980.4	3997.8	3970.0	4039.5	3994.3	4067.2
7.5°	4039.5	4070.7	4108.9	4074.2	4105.5	4088.1	4091.6	4081.1	4056.8	4115.9
10°	4268.7	4223.5	4310.4	4258.3	4251.3	4244.4	4230.5	4178.4	4237.4	4240.9
12.5°	4532.7	4491.0	4487.5	4445.8	4501.4	4400.7	4421.5	4393.7	4404.2	4418.0
15°	4723.7	4706.3	4786.2	4737.6	4664.7	4619.5	4668.1	4591.7	4629.9	4623.0
17.5°	5102.3	5098.8	5039.8	4959.9	4918.2	4852.2	4841.8	4810.5	4838.3	4824.4
20°	5366.3	5404.5	5414.9	5321.1	5161.3	5088.4	5071.0	5046.7	5078.0	5067.6
22.5°	5769.2	5710.1	5755.3	5592.0	5533.0	5359.3	5296.8	5262.1	5411.4	5373.2
25°	6026.2	6088.7	6043.6	5988.0	5856.0	5640.7	5595.5	5671.9	5731.0	5689.3
27.5°	6606.2	6543.7	6502.0	6335.3	6248.5	6022.7	5970.6	5942.8	5956.7	5981.0
30°	7047.3	7082.1	6988.3	6870.2	6651.4	6422.1	6300.6	6276.3	6227.6	6186.0
32.5°	7676.0	7623.9	7568.3	7491.9	7304.4	7002.2	6884.1	6793.8	6647.9	6453.4
35°	7978.2	8127.5	8085.9	7880.9	7738.5	7623.9	7589.2	7450.2	7328.7	7023.0
37.5°	8481.8	8544.3	8485.3	8419.3	8353.3	8231.7	8190.1	8228.3	7988.6	7485.0
40°	8808.3	8940.3	9061.9	8877.8	8863.9	8888.2	8631.2	8586.0	8092.8	7828.8
42.5°	9475.2	9530.8	9555.1	9548.1	9628.0	9628.0	9138.3	9041.0	8690.2	8474.9
45°	10357.4	10402.6	10489.4	10551.9	10461.6	10506.8	9808.6	9770.4	9457.8	9416.1
47.5°	11121.5	11229.2	11423.7	11607.8	11725.9	11573.1	10808.9	10538.0	10458.1	10708.2
50°	11788.4	11659.9	12114.9	12302.5	12820.0	13073.5	11913.4	11805.8	11677.3	12156.6
52.5°	11854.4	12028.1	12670.6	13045.7	14112.1	14580.9	13268.0	13222.9	13066.6	13618.8
55°	12326.8	12305.9	12952.0	13764.7	15032.5	15820.9	15032.5	15004.7	14664.3	15188.8
57.5°	12246.9	12458.8	12969.3	14105.1	15862.6	17151.2	17078.3	16887.2	16411.4	16838.6
60°	11976.0	12031.5	12653.3	14094.7	16345.4	18516.2	19287.3	19325.5	18353.0	18693.3
62.5°	10440.8	10569.3	11357.7	12986.7	16001.5	19457.5	21444.2	21308.7	20530.7	20141.7
65°	8304.7	8176.2	8995.9	10756.8	13862.0	18790.6	22388.9	22892.6	21670.0	20957.9
67.5°	5091.9	5060.6	5849.1	7401.6	10371.3	15991.1	21635.2	22027.7	21353.9	20784.3
70°	2622.3	2542.5	3035.7	4129.8	6519.4	11732.8	18828.8	19214.3	19856.9	18641.2
72.5°	1222.6	1205.2	1469.2	2031.9	3320.5	6898.0	14580.9	14858.8	16213.4	15716.7
75°	719.0	729.4	878.7	1062.8	1618.6	3251.0	9676.6	10215.0	11684.2	11326.5
77.5°	538.4	538.4	625.2	739.8	944.7	1257.3	4775.8	5487.8	6832.0	6144.3
80°	396.0	402.9	479.3	555.7	656.5	649.5	1896.4	2222.9	3132.9	2677.9
82.5°	309.1	319.5	371.6	413.3	462.0	392.5	778.0	837.1	1288.6	1024.6
85°	215.3	222.3	291.8	281.3	281.3	218.8	323.0	340.4	510.6	486.3
87.5°	52.1	59.0	142.4	156.3	118.1	66.0	100.7	114.6	184.1	211.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477520
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3983.9	0°	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9	3983.9
4053.4	2.5°	4001.3	4015.1	4074.2	4042.9	4060.3	3987.4	4046.4	3997.8	4039.5	4018.6
4084.6	5°	4112.4	4081.1	4115.9	4091.6	4091.6	4119.3	4161.0	4129.8	4192.3	4164.5
4108.9	7.5°	4157.6	4161.0	4181.9	4185.3	4168.0	4254.8	4258.3	4247.9	4306.9	4293.0
4275.6	10°	4268.7	4272.2	4310.4	4331.2	4313.8	4345.1	4310.4	4282.6	4279.1	4265.2
4407.6	12.5°	4445.8	4480.6	4473.6	4491.0	4494.5	4362.5	4282.6	4147.1	4129.8	4147.1
4602.1	15°	4609.1	4595.2	4602.1	4636.9	4491.0	4279.1	4136.7	4022.1	4029.0	4032.5
4855.7	17.5°	4803.6	4814.0	4824.4	4664.7	4397.2	4147.1	4022.1	4022.1	3987.4	4001.3
5032.8	20°	5025.9	4984.2	4893.9	4668.1	4234.0	3994.3	3956.1	3956.1	3914.4	3886.6
5223.9	22.5°	5199.5	5116.2	4980.7	4560.5	4088.1	3935.3	3841.5	3775.5	3726.9	3671.3
5435.7	25°	5310.7	5265.5	5001.6	4449.3	3980.4	3779.0	3640.0	3539.3	3476.8	3403.8
5602.4	27.5°	5480.9	5394.0	5060.6	4320.8	3862.3	3622.7	3407.3	3251.0	3132.9	3056.5
5856.0	30°	5710.1	5585.1	5018.9	4136.7	3681.7	3351.7	3098.2	2896.7	2761.3	2698.8
6095.7	32.5°	5897.7	5734.4	4984.2	3970.0	3480.3	3077.4	2740.4	2535.5	2459.1	2379.2
6498.6	35°	6255.4	5932.4	4959.9	3876.2	3299.6	2803.0	2448.7	2271.5	2174.3	2056.2
6738.2	37.5°	6529.8	6276.3	4900.8	3681.7	3066.9	2535.5	2226.4	2066.6	1920.7	1795.7
7293.9	40°	6960.5	6755.6	4904.3	3407.3	2792.5	2306.3	2052.7	1886.0	1701.9	1594.2
8117.1	42.5°	7769.8	7228.0	4925.2	3188.5	2483.4	2118.7	1896.4	1698.4	1514.4	1424.1
9054.9	45°	8763.2	7877.5	4796.6	2990.5	2167.3	1941.6	1708.9	1510.9	1392.8	1326.8
10329.6	47.5°	9905.9	8513.1	4623.0	2618.9	1903.4	1754.0	1535.2	1420.6	1333.8	1295.5
11972.5	50°	11184.1	9423.1	4574.3	2278.5	1698.4	1594.2	1451.8	1365.0	1306.0	1260.8
13823.8	52.5°	12830.4	10482.4	4477.1	1927.7	1521.3	1465.7	1420.6	1361.5	1309.4	1271.2
15550.0	55°	14403.8	11656.4	4372.9	1639.4	1396.3	1403.2	1427.5	1375.4	1330.3	1271.2
17484.6	57.5°	16175.2	12854.7	3987.4	1427.5	1302.5	1372.0	1420.6	1361.5	1316.4	1271.2
19464.4	60°	17269.3	13528.5	3233.7	1243.4	1219.1	1312.9	1378.9	1316.4	1267.8	1285.1
20374.4	62.5°	17713.9	13174.3	2438.3	1128.8	1160.1	1233.0	1312.9	1288.6	1253.9	1319.9
20364.0	65°	16956.7	12358.0	1743.6	1031.6	1080.2	1153.1	1253.9	1281.7	1292.1	1420.6
18703.8	67.5°	15088.1	10760.3	1281.7	951.7	996.8	1104.5	1295.5	1340.7	1333.8	1493.5
15695.9	70°	12073.2	8415.8	1000.3	885.7	965.6	1142.7	1354.6	1354.6	1306.0	1493.5
11972.5	72.5°	8784.0	5932.4	861.4	809.3	885.7	1048.9	1347.6	1344.2	1281.7	1365.0
7623.9	75°	5317.6	3452.5	760.7	732.9	760.7	899.6	1288.6	1267.8	1180.9	1174.0
3667.8	77.5°	2650.1	1736.7	621.7	649.5	663.4	753.7	1132.3	1163.6	1045.5	1017.7
1448.4	80°	1118.4	757.2	517.5	559.2	559.2	635.6	941.3	962.1	868.3	816.2
573.1	82.5°	510.6	434.2	441.1	486.3	455.0	493.2	746.8	771.1	705.1	618.2
243.1	85°	215.3	246.6	336.9	382.1	336.9	319.5	514.0	541.8	458.5	382.1
104.2	87.5°	97.3	135.5	211.9	277.9	170.2	149.4	274.4	284.8	229.2	170.2
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>
3983.9
3980.4
4126.3
4272.2
4265.2
4154.1
4081.1
4004.7
3845.0
3640.0
3417.7
3091.2
2733.5
2375.7
2045.8
1799.2
1604.7
1431.0
1340.7
1288.6
1267.8
1267.8
1267.8
1267.8
1271.2
1302.5
1420.6
1503.9
1462.3
1316.4
1160.1
1000.3
798.9
604.4
385.5
159.8
0.0

F REPORT)