

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: P477938

Luminaire Tested: **IFLD-S-SA6B-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477938
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

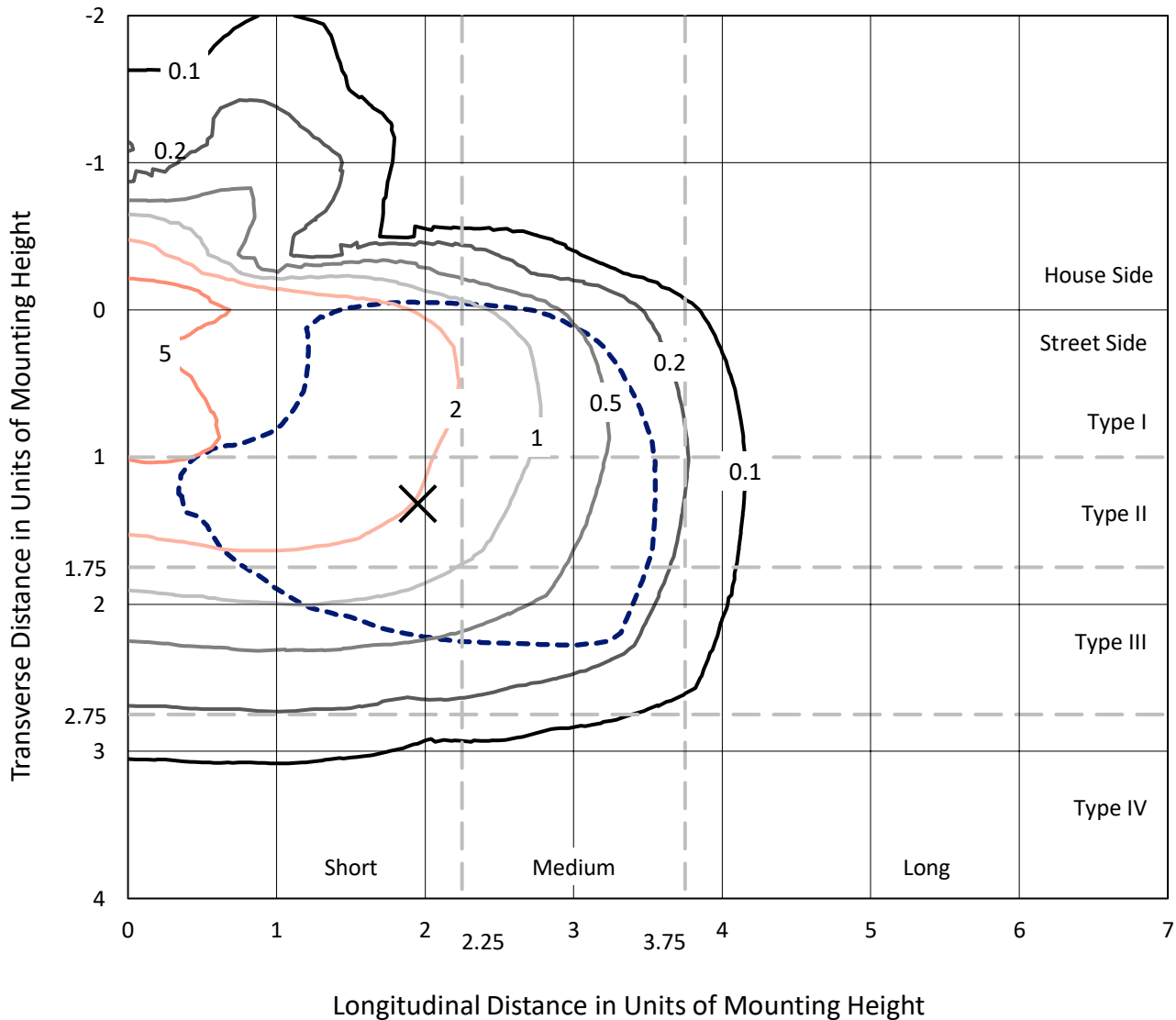
Lumens per Lamp: N/A
Luminaire Lumens: 26053.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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: P477938
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

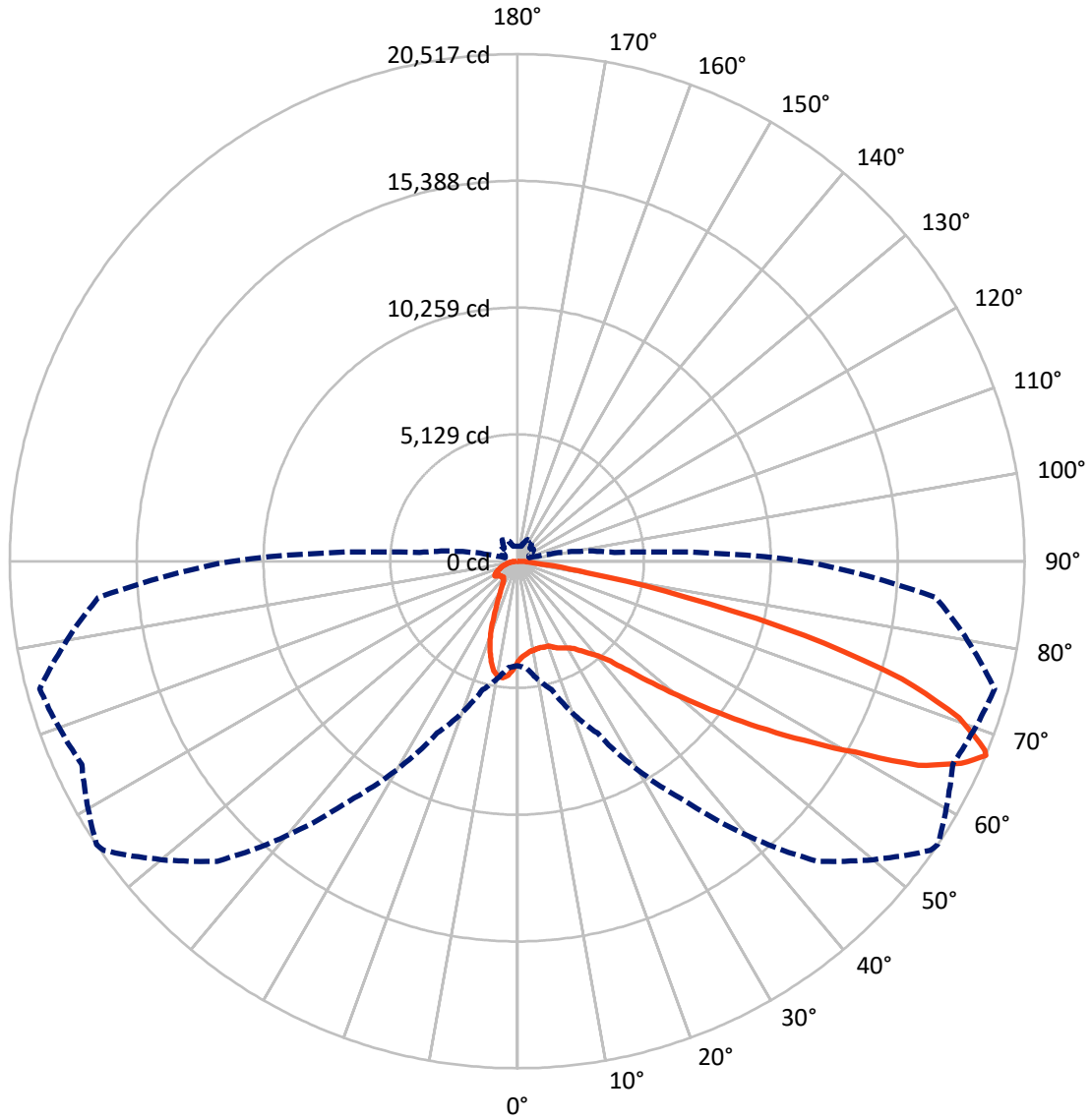
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P477938
CATALOG NUMBER: IFLD-S-SA6B-830-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477938
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T3R

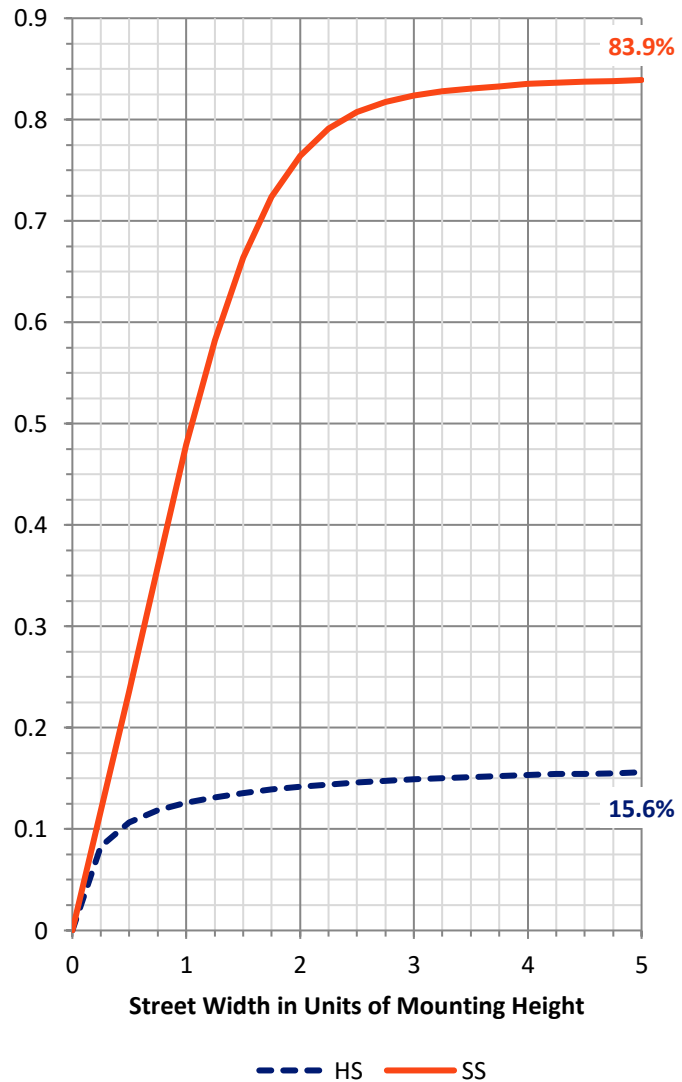
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4124.6	0.0	4124.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	21929.3	0.0	21929.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	26053.9	0.0	26053.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.5	1.5
10°-20°	1065.5	4.1
20°-30°	1670.9	6.4
30°-40°	2385.3	9.2
40°-50°	3600.1	13.8
50°-60°	5730.7	22.0
60°-70°	7326.3	28.1
70°-80°	3572.1	13.7
80°-90°	312.5	1.2
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°	26053.9	100.0
0°-180°	26053.9	100.0

Coefficient of Utilization

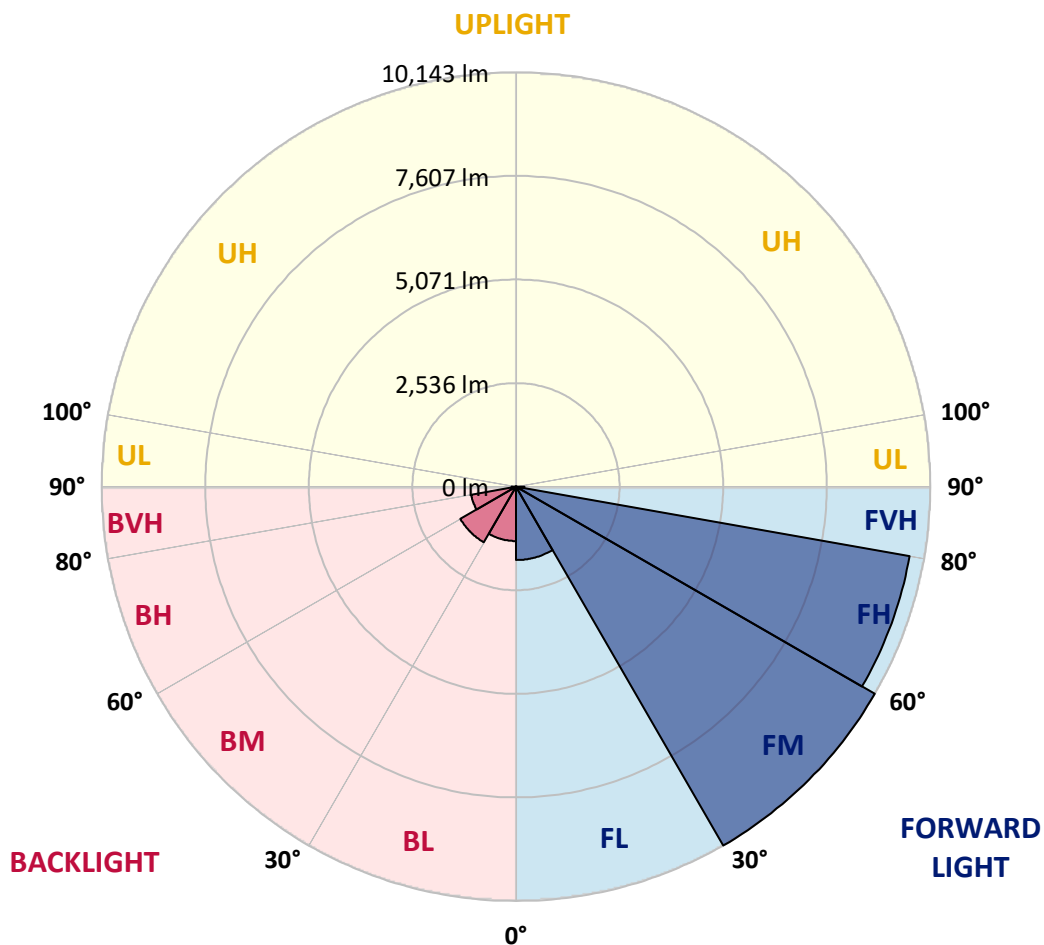


REPORT NUMBER: P477938
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1795.4	6.9			
FM (30°-60°)	10142.6	38.9			
FH (60°-80°)	9783.8	37.6			G4/12000
FVH (80°-90°)	207.5	0.8			G2/225
BL (0°-30°)	1331.5	5.1	B3/2500		
BM (30°-60°)	1573.6	6.0	B2/2500		
BH (60°-80°)	1114.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	105.0	0.4			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: P477938
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9
2.5°	3724.0	3708.7	3727.0	3708.7	3791.2	3840.1	3855.4	3876.7	3953.1	4026.4
5°	3568.2	3501.0	3574.3	3598.7	3604.8	3687.3	3772.9	3788.1	3827.9	3947.0
7.5°	3308.5	3384.9	3357.4	3430.7	3507.1	3589.6	3730.1	3690.4	3837.0	3950.1
10°	3253.5	3259.6	3290.2	3317.7	3384.9	3491.8	3687.3	3662.9	3812.6	4053.9
12.5°	3308.5	3308.5	3299.4	3278.0	3354.3	3458.2	3614.0	3626.2	3861.5	4084.5
15°	3501.0	3537.6	3439.9	3455.2	3424.6	3458.2	3595.7	3623.2	3879.8	4108.9
17.5°	3971.4	3959.2	3843.1	3681.2	3546.8	3525.4	3620.1	3650.7	3861.5	4179.2
20°	4429.7	4405.2	4203.6	4035.6	3769.8	3644.6	3659.8	3662.9	3892.0	4225.0
22.5°	4939.9	5004.0	4784.1	4441.9	4112.0	3800.4	3739.3	3788.1	3962.3	4249.4
25°	5740.3	5602.8	5413.4	4964.3	4432.7	4041.7	3870.6	3895.1	4029.5	4310.5
27.5°	6317.6	6262.7	5966.3	5602.8	4881.8	4231.1	3940.9	3986.7	4151.7	4307.5
30°	6873.6	6873.6	6693.4	6149.6	5355.3	4548.8	4090.6	4069.2	4093.6	4301.4
32.5°	7524.4	7435.8	7176.1	6815.6	5951.1	4839.0	4209.7	4215.8	4215.8	4414.4
35°	7866.5	8010.1	7836.0	7249.4	6406.2	5321.7	4496.9	4451.1	4417.5	4539.7
37.5°	8367.5	8453.1	8269.8	7924.6	6971.4	5712.8	4750.5	4713.8	4518.3	4637.4
40°	8670.0	8654.7	8648.6	8489.7	7719.9	6174.1	5123.2	5028.5	4765.7	4982.6
42.5°	8841.0	8810.5	9186.2	9088.5	8425.6	6852.3	5590.6	5538.6	5248.4	5596.7
45°	9033.5	9259.6	9568.1	9843.1	9247.3	7805.4	6381.8	6308.5	6048.8	6491.8
47.5°	9201.5	9479.5	9873.6	10166.9	9989.7	8841.0	7359.4	7377.7	7206.6	7661.8
50°	9482.6	9510.1	10044.7	10637.4	10774.8	9797.2	8673.0	8642.5	8566.1	9204.6
52.5°	9397.0	9479.5	10154.7	10912.3	11138.4	10808.4	10084.4	10176.1	10075.2	10878.7
55°	8004.0	8251.4	10087.5	11202.5	11999.9	11951.0	11899.0	11837.9	11831.8	12760.5
57.5°	7371.6	7573.2	8886.9	11523.3	12922.5	13282.9	13619.0	13686.2	13683.1	14804.3
60°	6956.1	7163.9	8401.1	11349.2	13707.6	15027.3	15671.9	15681.1	15662.8	16988.6
62.5°	6143.5	6345.1	7561.0	10396.0	13924.5	16637.3	18073.1	18192.3	17352.1	18870.5
65°	5165.9	5330.9	6403.2	8938.8	13347.1	17660.7	19878.6	19738.1	18775.7	19945.8
67°	4225.0	4335.0	5379.8	7674.0	11837.9	17168.8	20401.0	20517.1	19432.6	19991.6
67.5°	3956.2	4057.0	5043.7	7243.3	11263.6	16796.1	20419.3	20401.0	19444.8	20000.8
70°	2746.4	2789.2	3436.8	4982.6	8297.3	14190.3	18928.5	18971.3	18629.1	18916.3
72.5°	1820.8	1884.9	2297.3	3140.5	4891.0	10325.7	15821.6	16279.9	16062.9	15510.0
75°	1173.1	1209.8	1503.0	1869.6	2407.3	5880.8	11688.3	11993.8	11495.8	9592.6
77.5°	656.8	696.5	907.3	1136.4	1173.1	2447.0	6565.1	6943.9	5883.8	4075.3
80°	409.4	461.3	684.3	675.1	559.1	898.2	2706.7	2899.2	2352.3	1402.2
82.5°	308.6	348.3	528.5	473.5	314.7	400.2	1014.2	1087.6	861.5	540.7
85°	210.8	265.8	381.9	293.3	165.0	192.5	403.3	433.8	394.1	262.7
87.5°	76.4	113.0	198.6	146.6	73.3	58.0	131.4	146.6	140.5	119.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477938
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4053.9	0°	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9
4090.6	2.5°	4148.6	4191.4	4212.8	4338.0	4390.0	4380.8	4393.0	4411.4	4429.7	4454.1
4142.5	5°	4182.2	4313.6	4383.9	4530.5	4628.3	4585.5	4640.5	4625.2	4603.8	4600.8
4237.2	7.5°	4292.2	4460.2	4671.0	4710.7	4753.5	4646.6	4554.9	4429.7	4399.1	4292.2
4316.7	10°	4487.7	4625.2	4881.8	4897.1	4707.7	4432.7	4228.1	3968.4	3965.3	3809.5
4438.8	12.5°	4674.1	4829.9	5037.6	4949.0	4496.9	4121.1	3788.1	3504.0	3384.9	3305.5
4512.2	15°	4790.2	5046.8	5156.8	4774.9	4127.2	3620.1	3189.4	2883.9	2761.7	2703.6
4603.8	17.5°	4897.1	5254.5	5205.6	4469.4	3672.1	3103.8	2590.6	2324.8	2291.2	2248.4
4750.5	20°	5043.7	5330.9	5031.5	4072.3	3155.8	2437.9	2111.0	1982.7	2013.2	2031.5
4765.7	22.5°	5181.2	5370.6	4811.6	3638.5	2492.8	1930.7	1768.8	1796.3	1842.1	1903.2
4802.4	25°	5242.3	5434.8	4515.2	3039.7	1897.1	1625.2	1588.6	1634.4	1710.8	1713.8
4854.3	27.5°	5282.0	5388.9	4157.8	2456.2	1500.0	1420.6	1475.5	1509.1	1518.3	1555.0
4964.3	30°	5352.3	5294.2	3705.7	1756.6	1258.6	1261.7	1332.0	1332.0	1332.0	1359.5
5074.3	32.5°	5474.5	5230.1	3177.2	1283.1	1084.5	1182.3	1163.9	1157.8	1145.6	1112.0
5214.8	35°	5550.9	5055.9	2508.1	950.1	974.5	1084.5	1078.4	983.7	824.8	745.4
5572.2	37.5°	5709.7	4967.4	1845.2	733.2	910.4	1035.6	1002.0	772.9	598.8	522.4
6015.2	40°	6051.9	4909.3	1277.0	641.5	867.6	1011.2	895.1	659.9	458.2	323.8
6699.5	42.5°	6470.4	4912.4	867.6	604.9	870.7	1063.1	861.5	565.2	323.8	259.7
7612.9	45°	7032.5	4866.5	595.7	604.9	925.7	1148.7	882.9	513.2	314.7	329.9
8758.6	47.5°	7637.4	4906.3	443.0	549.9	934.8	1151.7	806.5	504.1	302.4	381.9
10005.0	50°	8343.1	4946.0	366.6	507.1	937.9	1115.1	742.4	491.8	314.7	403.3
11434.7	52.5°	9070.2	5071.2	311.6	479.6	974.5	1099.8	742.4	510.2	314.7	351.3
13255.4	55°	10154.7	5392.0	449.1	598.8	1108.9	1200.6	913.4	714.9	439.9	452.1
14999.8	57.5°	11352.2	5721.9	501.0	629.3	1139.5	1081.5	983.7	788.2	464.4	467.4
16356.2	60°	12140.4	5734.1	498.0	614.0	1066.2	934.8	962.3	830.9	473.5	400.2
17196.3	62.5°	12455.0	5361.4	519.3	614.0	992.9	873.7	986.8	895.1	488.8	501.0
17434.6	65°	12097.6	4591.6	501.0	549.9	873.7	782.1	992.9	907.3	534.6	504.1
17006.9	67°	11538.6	3956.2	510.2	522.4	812.6	742.4	1044.8	953.1	620.2	604.9
16783.9	67.5°	11379.7	3788.1	507.1	507.1	791.2	730.1	1057.0	953.1	632.4	626.3
14813.5	70°	10029.4	3070.2	519.3	501.0	699.6	693.5	1124.2	1005.1	727.1	733.2
10881.7	72.5°	7634.3	2327.9	516.3	501.0	607.9	662.9	1133.4	1038.7	791.2	733.2
6094.6	75°	4338.0	1393.1	455.2	436.9	479.6	577.4	1060.1	989.8	769.8	656.8
2434.8	77.5°	1793.3	717.9	418.5	394.1	397.1	470.5	882.9	922.6	733.2	559.1
812.6	80°	669.0	430.7	336.0	314.7	305.5	345.2	629.3	736.2	626.3	458.2
357.4	82.5°	348.3	268.8	229.1	229.1	207.7	220.0	339.1	488.8	473.5	314.7
143.6	85°	177.2	152.7	131.4	128.3	116.1	103.9	171.1	290.2	271.9	174.1
64.2	87.5°	94.7	85.5	55.0	51.9	42.8	27.5	30.5	58.0	94.7	76.4
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>
4053.9
4478.6
4628.3
4328.9
3803.4
3287.1
2691.4
2269.8
2010.2
1869.6
1744.4
1588.6
1390.0
1093.7
782.1
519.3
314.7
253.6
336.0
424.6
467.4
360.5
476.6
452.1
412.4
507.1
494.9
595.7
614.0
678.2
650.7
586.6
528.5
418.5
247.5
143.6
55.0
0.0

F REPORT)