

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: P477402

Luminaire Tested: **IFLD-L-SA7B-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477402
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

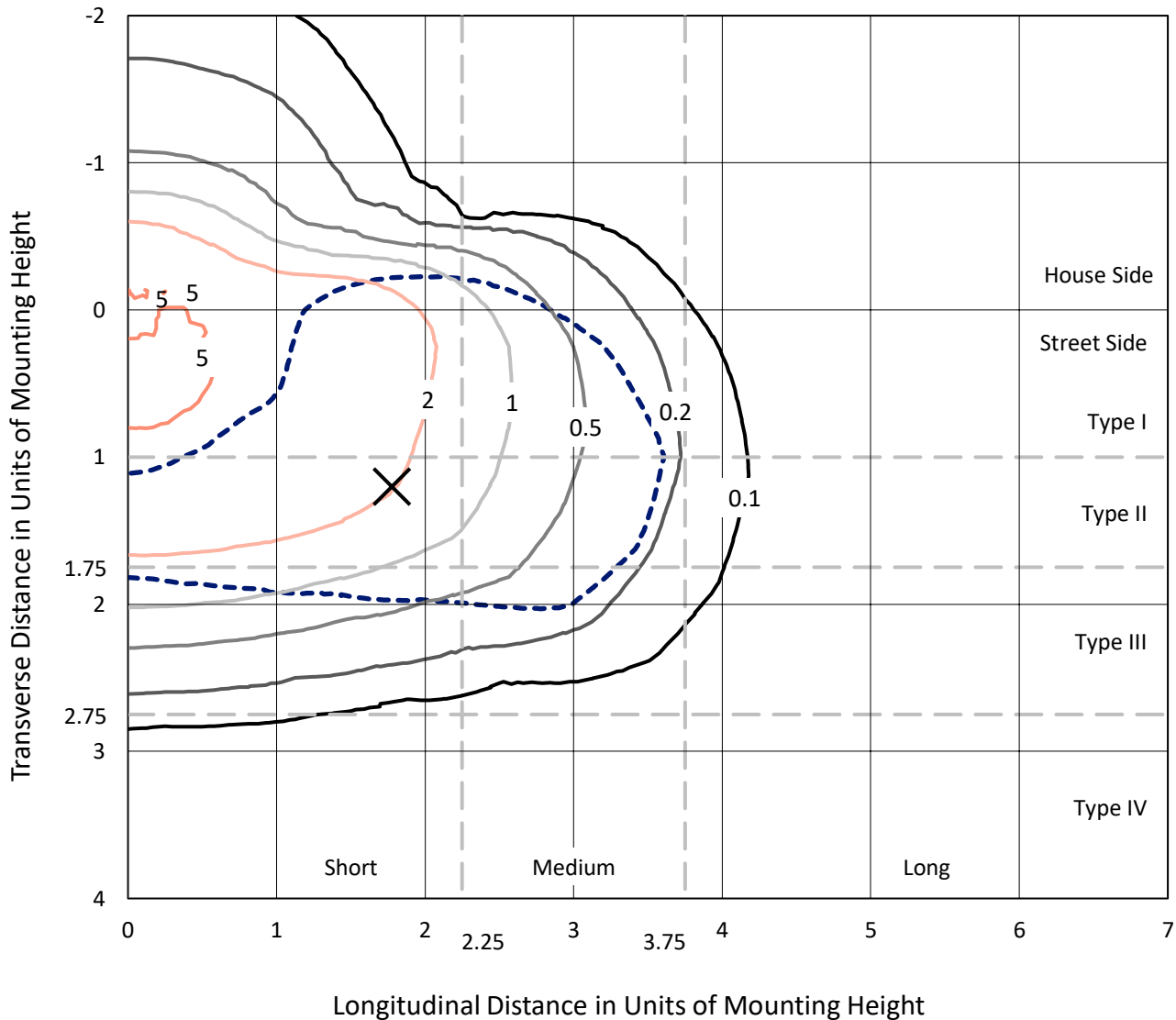
Lumens per Lamp: N/A
Luminaire Lumens: 36271.6 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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: P477402
 CATALOG NUMBER: IFLD-L-SA7B-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

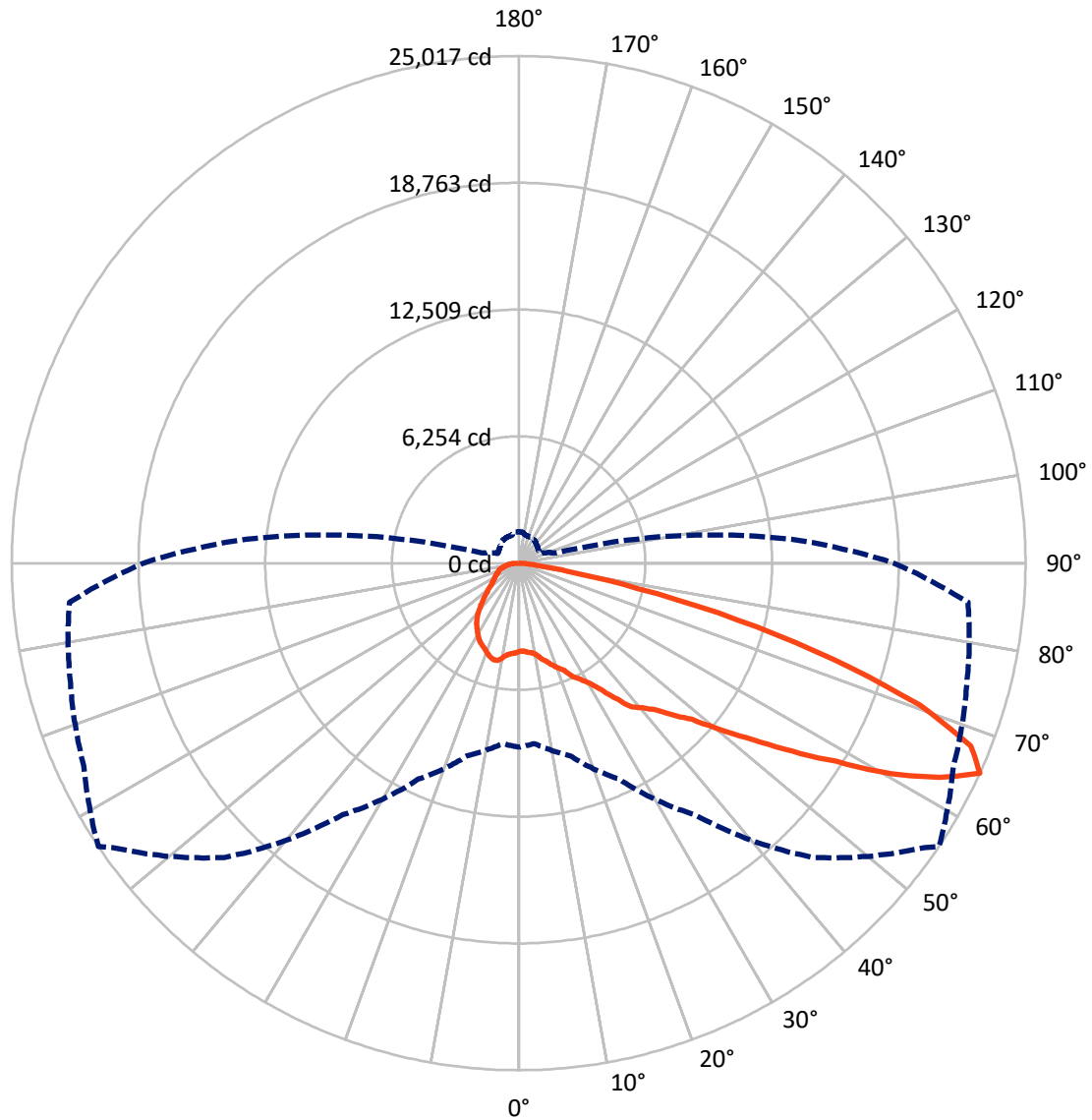
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

REPORT NUMBER: P477402
CATALOG NUMBER: IFLD-L-SA7B-740-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477402
 CATALOG NUMBER: IFLD-L-SA7B-740-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8134.6	0.0	8134.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	28137.1	0.0	28137.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	36271.6	0.0	36271.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	1.2
10°-20°	1400.9	3.9
20°-30°	2494.4	6.9
30°-40°	3735.3	10.3
40°-50°	5534.3	15.3
50°-60°	8527.6	23.5
60°-70°	9654.3	26.6
70°-80°	4006.6	11.0
80°-90°	486.8	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°	36271.6	100.0
0°-180°	36271.6	100.0

Coefficient of Utilization

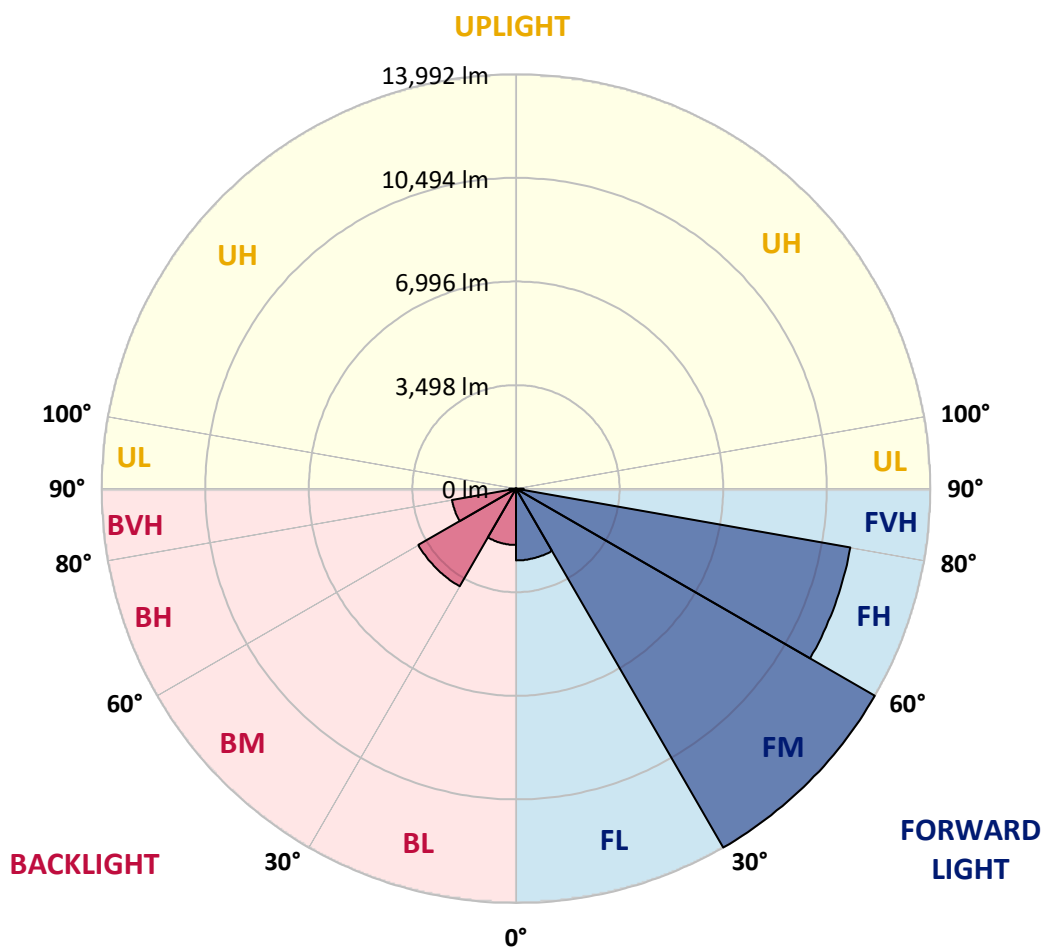


REPORT NUMBER: P477402
 CATALOG NUMBER: IFLD-L-SA7B-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2424.0	6.7			
FM (30°-60°)	13992.0	38.6			
FH (60°-80°)	11464.3	31.6			G4/12000
FVH (80°-90°)	256.8	0.7			G3/500
BL (0°-30°)	1902.7	5.2	B3/2500		
BM (30°-60°)	3805.2	10.5	B3/5000		
BH (60°-80°)	2196.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	230.0	0.6			G3/500
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: P477402
 CATALOG NUMBER: IFLD-L-SA7B-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6
2.5°	4239.8	4262.5	4247.4	4292.9	4330.9	4330.9	4361.2	4338.4	4368.8	4410.6
5°	4380.2	4289.1	4338.4	4361.2	4349.8	4368.8	4338.4	4414.4	4365.0	4444.7
7.5°	4414.4	4448.5	4490.3	4452.3	4486.5	4467.5	4471.3	4459.9	4433.3	4497.9
10°	4664.9	4615.5	4710.4	4653.5	4645.9	4638.3	4623.1	4566.2	4630.7	4634.5
12.5°	4953.3	4907.8	4904.0	4858.5	4919.2	4809.1	4831.9	4801.5	4812.9	4828.1
15°	5162.1	5143.1	5230.4	5177.3	5097.6	5048.2	5101.4	5017.9	5059.6	5052.0
17.5°	5575.8	5572.0	5507.5	5420.2	5374.7	5302.5	5291.2	5257.0	5287.4	5272.2
20°	5864.3	5906.1	5917.4	5815.0	5640.4	5560.7	5541.7	5515.1	5549.3	5537.9
22.5°	6304.6	6240.1	6289.4	6111.0	6046.5	5856.7	5788.4	5750.4	5913.6	5871.9
25°	6585.5	6653.8	6604.5	6543.7	6399.5	6164.2	6114.8	6198.3	6262.9	6217.3
27.5°	7219.4	7151.0	7105.5	6923.3	6828.4	6581.7	6524.8	6494.4	6509.6	6536.1
30°	7701.4	7739.4	7636.9	7507.8	7268.7	7018.2	6885.3	6858.8	6805.6	6760.1
32.5°	8388.4	8331.5	8270.8	8187.3	7982.3	7652.1	7523.0	7424.3	7264.9	7052.4
35°	8718.6	8881.9	8836.3	8612.4	8456.7	8331.5	8293.5	8141.7	8008.9	7674.8
37.5°	9269.0	9337.3	9272.8	9200.7	9128.6	8995.7	8950.2	8991.9	8730.0	8179.7
40°	9625.8	9770.0	9902.9	9701.7	9686.5	9713.1	9432.2	9382.9	8843.9	8555.4
42.5°	10354.6	10415.3	10441.9	10434.3	10521.6	10521.6	9986.4	9880.1	9496.8	9261.4
45°	11318.7	11368.0	11462.9	11531.2	11432.6	11481.9	10719.0	10677.2	10335.6	10290.1
47.5°	12153.7	12271.4	12484.0	12685.1	12814.2	12647.2	11812.1	11516.1	11428.8	11702.0
50°	12882.5	12742.1	13239.3	13444.3	14009.8	14286.9	13019.1	12901.5	12761.0	13284.8
52.5°	12954.6	13144.4	13846.6	14256.5	15421.8	15934.2	14499.4	14450.1	14279.3	14882.8
55°	13470.8	13448.0	14154.0	15042.2	16427.6	17289.3	16427.6	16397.3	16025.3	16598.5
57.5°	13383.5	13615.1	14173.0	15414.2	17334.8	18743.0	18663.3	18454.5	17934.5	18401.4
60°	13087.5	13148.2	13827.6	15402.8	17862.4	20234.7	21077.3	21119.1	20056.3	20428.3
62.5°	11409.8	11550.2	12411.8	14192.0	17486.6	21263.3	23434.5	23286.4	22436.2	22011.1
65°	9075.4	8935.0	9830.8	11755.2	15148.5	20534.6	24466.9	25017.2	23681.2	22903.1
67.5°	5564.4	5530.3	6391.9	8088.6	11333.9	17475.3	23643.2	24072.1	23335.8	22713.3
70°	2865.7	2778.4	3317.4	4513.0	7124.5	12821.8	20576.3	20997.6	21699.8	20371.3
72.5°	1336.1	1317.1	1605.6	2220.5	3628.7	7538.2	15934.2	16237.9	17718.2	17175.4
75°	785.7	797.1	960.3	1161.5	1768.8	3552.7	10574.7	11163.1	12768.6	12377.7
77.5°	588.3	588.3	683.2	808.5	1032.4	1374.0	5219.0	5997.2	7466.1	6714.5
80°	432.7	440.3	523.8	607.3	717.4	709.8	2072.4	2429.2	3423.7	2926.5
82.5°	337.8	349.2	406.1	451.7	504.8	428.9	850.2	914.8	1408.2	1119.7
85°	235.3	242.9	318.8	307.4	307.4	239.1	353.0	372.0	558.0	531.4
87.5°	56.9	64.5	155.6	170.8	129.1	72.1	110.1	125.3	201.2	231.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477402
 CATALOG NUMBER: IFLD-L-SA7B-740-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4353.6	0°	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6	4353.6
4429.5	2.5°	4372.6	4387.8	4452.3	4418.2	4437.1	4357.4	4422.0	4368.8	4414.4	4391.6
4463.7	5°	4494.1	4459.9	4497.9	4471.3	4471.3	4501.7	4547.2	4513.0	4581.4	4551.0
4490.3	7.5°	4543.4	4547.2	4570.0	4573.8	4554.8	4649.7	4653.5	4642.1	4706.6	4691.4
4672.5	10°	4664.9	4668.7	4710.4	4733.2	4714.2	4748.4	4710.4	4680.1	4676.3	4661.1
4816.7	12.5°	4858.5	4896.4	4888.8	4907.8	4911.6	4767.4	4680.1	4532.0	4513.0	4532.0
5029.3	15°	5036.9	5021.7	5029.3	5067.2	4907.8	4676.3	4520.6	4395.4	4403.0	4406.8
5306.3	17.5°	5249.4	5260.8	5272.2	5097.6	4805.3	4532.0	4395.4	4395.4	4357.4	4372.6
5499.9	20°	5492.3	5446.8	5348.1	5101.4	4626.9	4365.0	4323.3	4323.3	4277.7	4247.4
5708.7	22.5°	5682.1	5591.0	5443.0	4983.7	4467.5	4300.5	4198.0	4125.9	4072.8	4012.0
5940.2	25°	5803.6	5754.2	5465.8	4862.3	4349.8	4129.7	3977.9	3867.8	3799.5	3719.8
6122.4	27.5°	5989.6	5894.7	5530.3	4721.8	4220.8	3958.9	3723.5	3552.7	3423.7	3340.2
6399.5	30°	6240.1	6103.4	5484.7	4520.6	4023.4	3662.8	3385.7	3165.6	3017.6	2949.2
6661.4	32.5°	6445.0	6266.6	5446.8	4338.4	3803.3	3363.0	2994.8	2770.8	2687.3	2600.0
7101.7	35°	6836.0	6483.0	5420.2	4236.0	3605.9	3063.1	2675.9	2482.4	2376.1	2247.0
7363.6	37.5°	7135.9	6858.8	5355.7	4023.4	3351.6	2770.8	2433.0	2258.4	2099.0	1962.4
7970.9	40°	7606.5	7382.6	5359.5	3723.5	3051.7	2520.3	2243.2	2061.0	1859.9	1742.2
8870.5	42.5°	8490.9	7898.8	5382.3	3484.4	2713.9	2315.4	2072.4	1856.1	1654.9	1556.2
9895.3	45°	9576.5	8608.6	5241.8	3268.1	2368.5	2121.8	1867.5	1651.1	1522.1	1449.9
11288.3	47.5°	10825.2	9303.2	5052.0	2861.9	2080.0	1916.8	1677.7	1552.4	1457.5	1415.8
13083.7	50°	12222.0	10297.6	4998.9	2490.0	1856.1	1742.2	1586.6	1491.7	1427.2	1377.8
15106.8	52.5°	14021.2	11455.3	4892.6	2106.6	1662.5	1601.8	1552.4	1487.9	1431.0	1389.2
16993.2	55°	15740.6	12738.3	4778.7	1791.6	1525.9	1533.4	1560.0	1503.1	1453.7	1389.2
19107.4	57.5°	17676.4	14047.8	4357.4	1560.0	1423.4	1499.3	1552.4	1487.9	1438.6	1389.2
21270.9	60°	18872.1	14784.1	3533.8	1358.8	1332.3	1434.8	1506.9	1438.6	1385.4	1404.4
22265.4	62.5°	19357.9	14397.0	2664.6	1233.6	1267.8	1347.5	1434.8	1408.2	1370.2	1442.4
22254.0	65°	18530.4	13505.0	1905.4	1127.3	1180.5	1260.2	1370.2	1400.6	1412.0	1552.4
20439.7	67.5°	16488.4	11759.0	1400.6	1040.0	1089.4	1207.0	1415.8	1465.1	1457.5	1632.1
17152.6	70°	13193.7	9196.9	1093.2	967.9	1055.2	1248.8	1480.3	1480.3	1427.2	1632.1
13083.7	72.5°	9599.2	6483.0	941.3	884.4	967.9	1146.3	1472.7	1468.9	1400.6	1491.7
8331.5	75°	5811.2	3772.9	831.3	800.9	831.3	983.1	1408.2	1385.4	1290.5	1282.9
4008.2	77.5°	2896.1	1897.8	679.4	709.8	725.0	823.7	1237.4	1271.5	1142.5	1112.1
1582.8	80°	1222.2	827.5	565.6	611.1	611.1	694.6	1028.6	1051.4	948.9	892.0
626.3	82.5°	558.0	474.5	482.0	531.4	497.2	539.0	816.1	842.6	770.5	675.6
265.7	85°	235.3	269.5	368.2	417.5	368.2	349.2	561.8	592.1	501.0	417.5
113.9	87.5°	106.3	148.0	231.5	303.7	186.0	163.2	299.9	311.2	250.5	186.0
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>
4353.6
4349.8
4509.3
4668.7
4661.1
4539.6
4459.9
4376.4
4201.8
3977.9
3734.9
3378.1
2987.2
2596.2
2235.6
1966.2
1753.6
1563.8
1465.1
1408.2
1385.4
1385.4
1385.4
1385.4
1389.2
1423.4
1552.4
1643.5
1598.0
1438.6
1267.8
1093.2
873.0
660.4
421.3
174.6
0.0

F REPORT)