

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: P477791

Luminaire Tested: **IFLD-L-SA7A-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477791
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

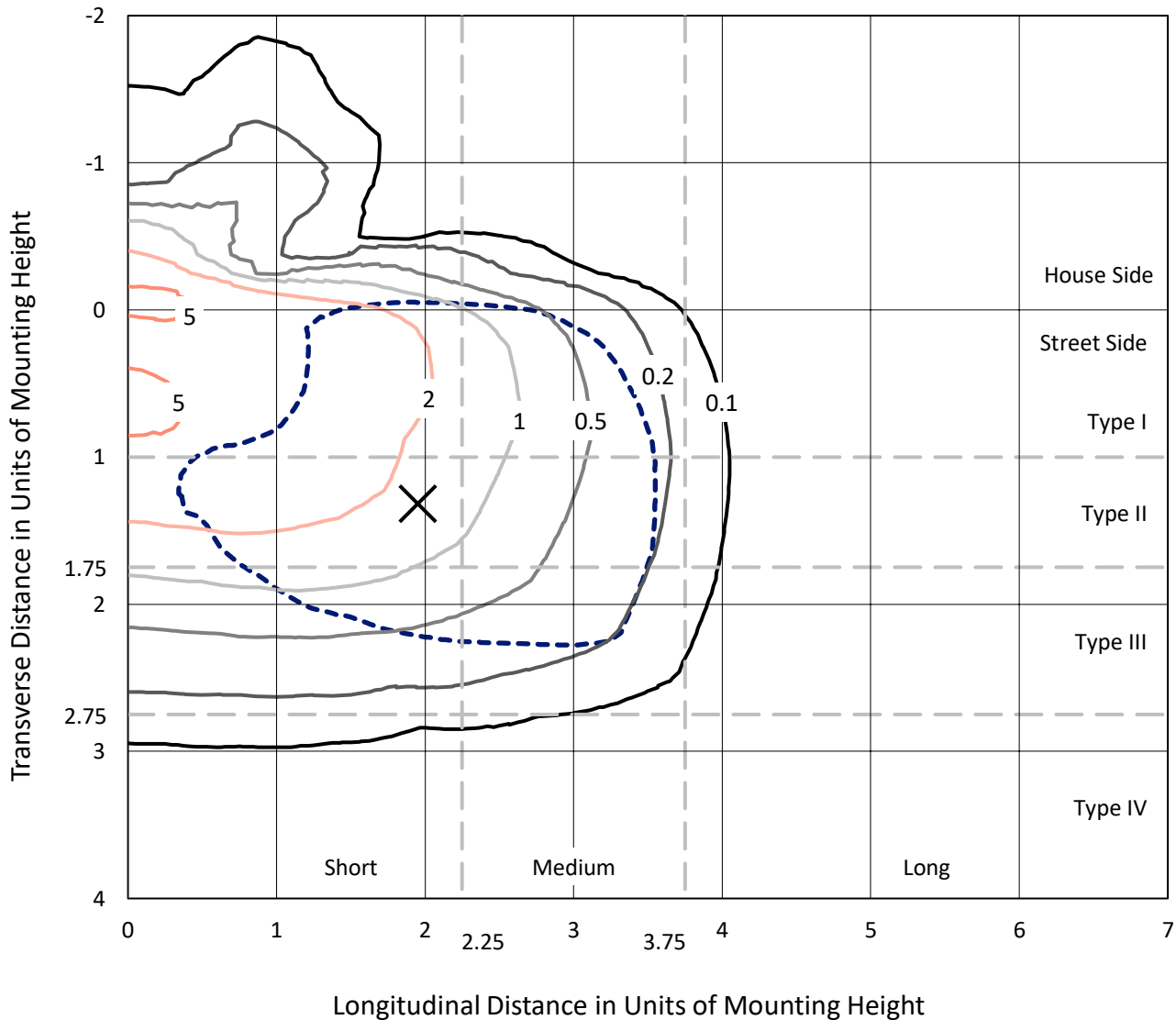
Lumens per Lamp: N/A
Luminaire Lumens: 30746.4 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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: P477791
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

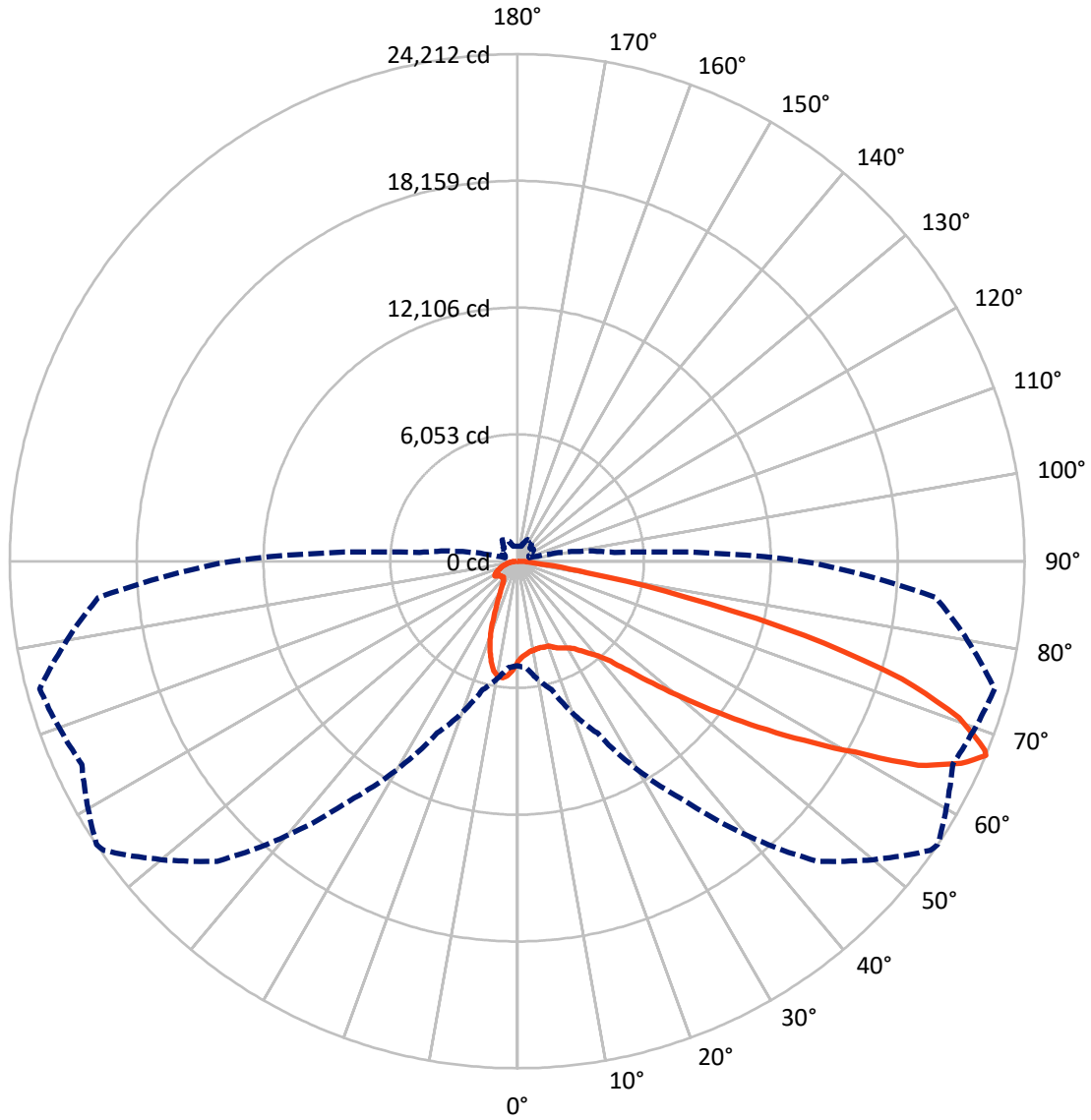
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P477791
CATALOG NUMBER: IFLD-L-SA7A-740-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477791
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4867.5	0.0	4867.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	25878.9	0.0	25878.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	30746.4	0.0	30746.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.9	1.5
10°-20°	1257.3	4.1
20°-30°	1971.9	6.4
30°-40°	2814.9	9.2
40°-50°	4248.5	13.8
50°-60°	6762.9	22.0
60°-70°	8645.8	28.1
70°-80°	4215.4	13.7
80°-90°	368.8	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°	30746.4	100.0
0°-180°	30746.4	100.0

Coefficient of Utilization

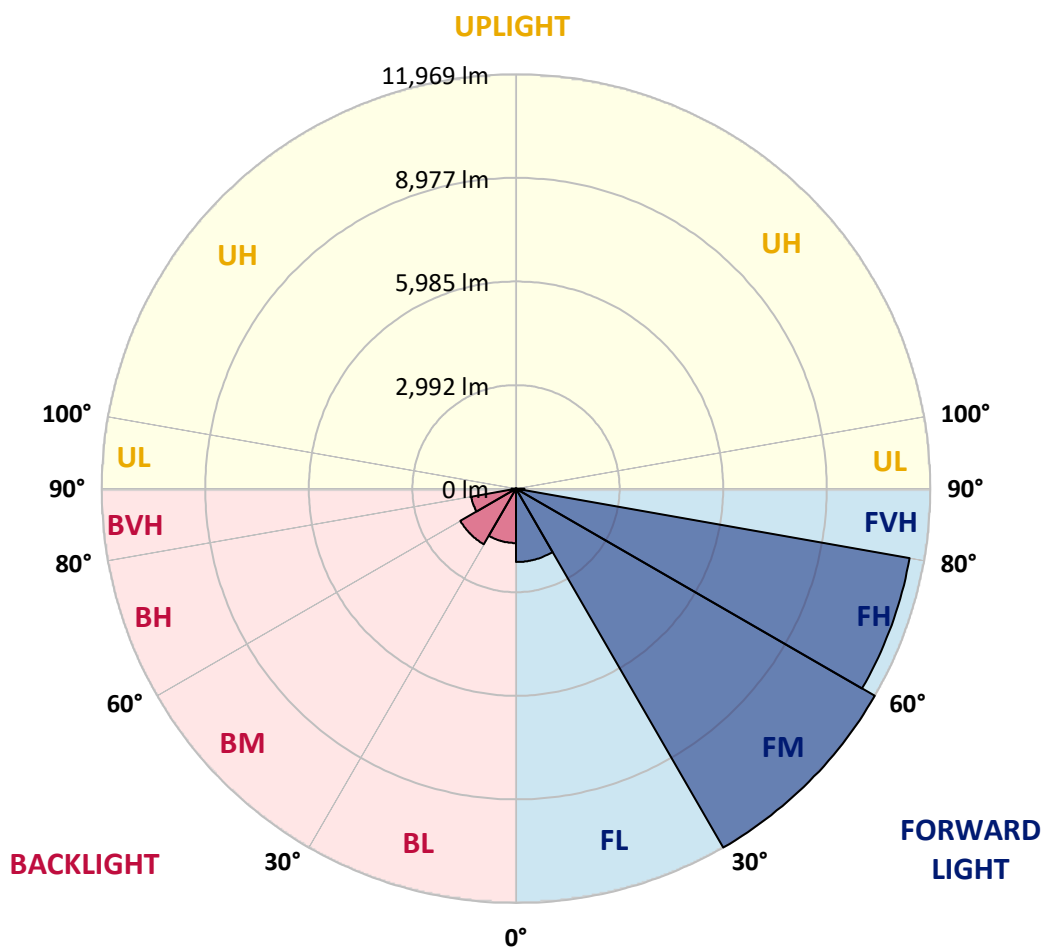


REPORT NUMBER: P477791
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2118.8	6.9			
FM (30°-60°)	11969.3	38.9			
FH (60°-80°)	11546.0	37.6			G4/12000
FVH (80°-90°)	244.9	0.8			G3/500
BL (0°-30°)	1571.4	5.1	B3/2500		
BM (30°-60°)	1857.0	6.0	B2/2500		
BH (60°-80°)	1315.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	123.9	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: P477791
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1
2.5°	4394.7	4376.7	4398.3	4376.7	4474.0	4531.7	4549.7	4575.0	4665.1	4751.6
5°	4210.8	4131.5	4218.0	4246.9	4254.1	4351.4	4452.4	4470.4	4517.3	4657.9
7.5°	3904.4	3994.5	3962.1	4048.6	4138.7	4236.1	4401.9	4355.0	4528.1	4661.5
10°	3839.5	3846.7	3882.8	3915.2	3994.5	4120.7	4351.4	4322.6	4499.3	4784.1
12.5°	3904.4	3904.4	3893.6	3868.3	3958.5	4081.1	4264.9	4279.3	4556.9	4820.1
15°	4131.5	4174.8	4059.4	4077.4	4041.4	4081.1	4243.3	4275.7	4578.6	4849.0
17.5°	4686.7	4672.3	4535.3	4344.2	4185.6	4160.4	4272.1	4308.2	4556.9	4931.9
20°	5227.5	5198.7	4960.7	4762.4	4448.8	4301.0	4319.0	4322.6	4593.0	4985.9
22.5°	5829.6	5905.3	5645.7	5241.9	4852.6	4484.8	4412.7	4470.4	4675.9	5014.8
25°	6774.1	6611.9	6388.4	5858.4	5231.1	4769.6	4567.7	4596.6	4755.2	5086.9
27.5°	7455.5	7390.6	7040.9	6611.9	5761.1	4993.2	4650.7	4704.7	4899.4	5083.3
30°	8111.6	8111.6	7898.9	7257.2	6319.9	5368.1	4827.3	4802.1	4830.9	5076.1
32.5°	8879.5	8775.0	8468.5	8043.1	7022.9	5710.6	4967.9	4975.1	4975.1	5209.5
35°	9283.3	9452.8	9247.3	8555.1	7560.0	6280.2	5306.8	5252.7	5213.1	5357.3
37.5°	9874.6	9975.5	9759.2	9351.8	8227.0	6741.7	5606.0	5562.8	5332.0	5472.6
40°	10231.5	10213.4	10206.2	10018.8	9110.3	7286.0	6045.9	5934.1	5624.1	5880.0
42.5°	10433.4	10397.3	10840.7	10725.4	9943.1	8086.4	6597.5	6536.2	6193.7	6604.7
45°	10660.5	10927.3	11291.4	11615.9	10912.8	9211.2	7531.2	7444.7	7138.2	7661.0
47.5°	10858.8	11186.8	11651.9	11998.0	11788.9	10433.4	8684.9	8706.5	8504.6	9041.8
50°	11190.4	11222.9	11853.8	12553.2	12715.4	11561.8	10235.1	10199.0	10108.9	10862.4
52.5°	11089.5	11186.8	11983.6	12877.7	13144.4	12755.1	11900.7	12008.8	11889.8	12838.0
55°	9445.5	9737.6	11904.3	13220.2	14161.1	14103.4	14042.1	13970.0	13962.8	15058.8
57.5°	8699.3	8937.2	10487.4	13598.7	15249.9	15675.3	16071.8	16151.2	16147.6	17470.6
60°	8209.0	8454.1	9914.2	13393.2	16176.4	17733.8	18494.5	18505.3	18483.7	20048.3
62.5°	7250.0	7487.9	8922.8	12268.4	16432.4	19633.8	21328.2	21468.8	20477.4	22269.1
65°	6096.3	6291.0	7556.4	10548.7	15751.0	20841.5	23458.8	23293.0	22157.4	23538.1
67°	4985.9	5115.7	6348.7	9056.2	13970.0	20261.0	24075.3	24212.3	22932.5	23592.2
67.5°	4668.7	4787.7	5952.1	8547.9	13292.3	19821.2	24096.9	24075.3	22946.9	23603.0
70°	3241.0	3291.5	4055.8	5880.0	9791.6	16746.0	22337.6	22388.1	21984.3	22323.2
72.5°	2148.7	2224.4	2711.1	3706.1	5771.9	12185.5	18671.2	19211.9	18956.0	18303.4
75°	1384.4	1427.6	1773.7	2206.4	2840.9	6940.0	13793.4	14153.9	13566.3	11320.2
77.5°	775.1	822.0	1070.7	1341.1	1384.4	2887.7	7747.5	8194.5	6943.6	4809.3
80°	483.1	544.4	807.6	796.7	659.7	1059.9	3194.2	3421.3	2776.0	1654.8
82.5°	364.1	411.0	623.7	558.8	371.3	472.3	1196.9	1283.4	1016.7	638.1
85°	248.8	313.6	450.6	346.1	194.7	227.1	475.9	511.9	465.1	310.0
87.5°	90.1	133.4	234.3	173.0	86.5	68.5	155.0	173.0	165.8	140.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477791
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4784.1	0°	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1	4784.1
4827.3	2.5°	4895.8	4946.3	4971.5	5119.3	5180.6	5169.8	5184.2	5205.9	5227.5	5256.3
4888.6	5°	4935.5	5090.5	5173.4	5346.5	5461.8	5411.4	5476.3	5458.2	5433.0	5429.4
5000.4	7.5°	5065.3	5263.5	5512.3	5559.2	5609.6	5483.5	5375.3	5227.5	5191.4	5065.3
5094.1	10°	5296.0	5458.2	5761.1	5779.1	5555.6	5231.1	4989.6	4683.1	4679.5	4495.6
5238.3	12.5°	5515.9	5699.8	5944.9	5840.4	5306.8	4863.4	4470.4	4135.1	3994.5	3900.8
5324.8	15°	5652.9	5955.7	6085.5	5634.9	4870.6	4272.1	3763.8	3403.3	3259.1	3190.6
5433.0	17.5°	5779.1	6200.9	6143.2	5274.4	4333.4	3662.9	3057.2	2743.5	2703.9	2653.4
5606.0	20°	5952.1	6291.0	5937.7	4805.7	3724.1	2876.9	2491.2	2339.8	2375.8	2397.4
5624.1	22.5°	6114.4	6337.9	5678.1	4293.8	2941.8	2278.5	2087.4	2119.8	2173.9	2246.0
5667.3	25°	6186.5	6413.6	5328.4	3587.1	2238.8	1917.9	1874.7	1928.8	2018.9	2022.5
5728.6	27.5°	6233.3	6359.5	4906.6	2898.6	1770.1	1676.4	1741.3	1781.0	1791.8	1835.0
5858.4	30°	6316.3	6247.8	4373.1	2073.0	1485.3	1488.9	1571.9	1571.9	1571.9	1604.3
5988.2	32.5°	6460.5	6172.0	3749.4	1514.2	1279.8	1395.2	1373.6	1366.4	1351.9	1312.3
6154.0	35°	6550.6	5966.6	2959.8	1121.2	1150.0	1279.8	1272.6	1160.9	973.4	879.7
6575.8	37.5°	6738.1	5862.0	2177.5	865.2	1074.3	1222.2	1182.5	912.1	706.6	616.5
7098.6	40°	7141.8	5793.5	1507.0	757.1	1023.9	1193.3	1056.3	778.7	540.8	382.1
7906.1	42.5°	7635.7	5797.1	1023.9	713.8	1027.5	1254.6	1016.7	667.0	382.1	306.4
8984.1	45°	8299.1	5743.0	703.0	713.8	1092.4	1355.5	1041.9	605.7	371.3	389.4
10336.0	47.5°	9012.9	5789.9	522.7	648.9	1103.2	1359.1	951.8	594.9	356.9	450.6
11806.9	50°	9845.7	5836.8	432.6	598.5	1106.8	1315.9	876.1	580.4	371.3	475.9
13494.1	52.5°	10703.7	5984.6	367.7	566.0	1150.0	1297.9	876.1	602.1	371.3	414.6
15642.8	55°	11983.6	6363.1	530.0	706.6	1308.7	1416.8	1077.9	843.6	519.1	533.6
17701.4	57.5°	13396.8	6752.5	591.2	742.7	1344.7	1276.2	1160.9	930.1	548.0	551.6
19302.1	60°	14326.9	6766.9	587.6	724.6	1258.2	1103.2	1135.6	980.6	558.8	472.3
20293.5	62.5°	14698.3	6327.1	612.9	724.6	1171.7	1031.1	1164.5	1056.3	576.8	591.2
20574.7	65°	14276.5	5418.6	591.2	648.9	1031.1	922.9	1171.7	1070.7	630.9	594.9
20070.0	67°	13616.7	4668.7	602.1	616.5	959.0	876.1	1233.0	1124.8	731.8	713.8
19806.8	67.5°	13429.3	4470.4	598.5	598.5	933.7	861.6	1247.4	1124.8	746.3	739.1
17481.5	70°	11835.8	3623.2	612.9	591.2	825.6	818.4	1326.7	1186.1	858.0	865.2
12841.6	72.5°	9009.3	2747.1	609.3	591.2	717.4	782.3	1337.5	1225.8	933.7	865.2
7192.3	75°	5119.3	1644.0	537.2	515.5	566.0	681.4	1251.0	1168.1	908.5	775.1
2873.3	77.5°	2116.2	847.2	493.9	465.1	468.7	555.2	1041.9	1088.8	865.2	659.7
959.0	80°	789.5	508.3	396.6	371.3	360.5	407.4	742.7	868.8	739.1	540.8
421.8	82.5°	411.0	317.3	270.4	270.4	245.2	259.6	400.2	576.8	558.8	371.3
169.4	85°	209.1	180.3	155.0	151.4	137.0	122.6	201.9	342.5	320.9	205.5
75.7	87.5°	111.8	100.9	64.9	61.3	50.5	32.4	36.1	68.5	111.8	90.1
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°
4784.1
5285.2
5461.8
5108.5
4488.4
3879.2
3176.2
2678.6
2372.2
2206.4
2058.6
1874.7
1640.4
1290.7
922.9
612.9
371.3
299.2
396.6
501.1
551.6
425.4
562.4
533.6
486.7
598.5
584.0
703.0
724.6
800.3
767.9
692.2
623.7
493.9
292.0
169.4
64.9
0.0

F REPORT)