

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: P477753

Luminaire Tested: **IFLD-L-SA7B-735-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477753
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

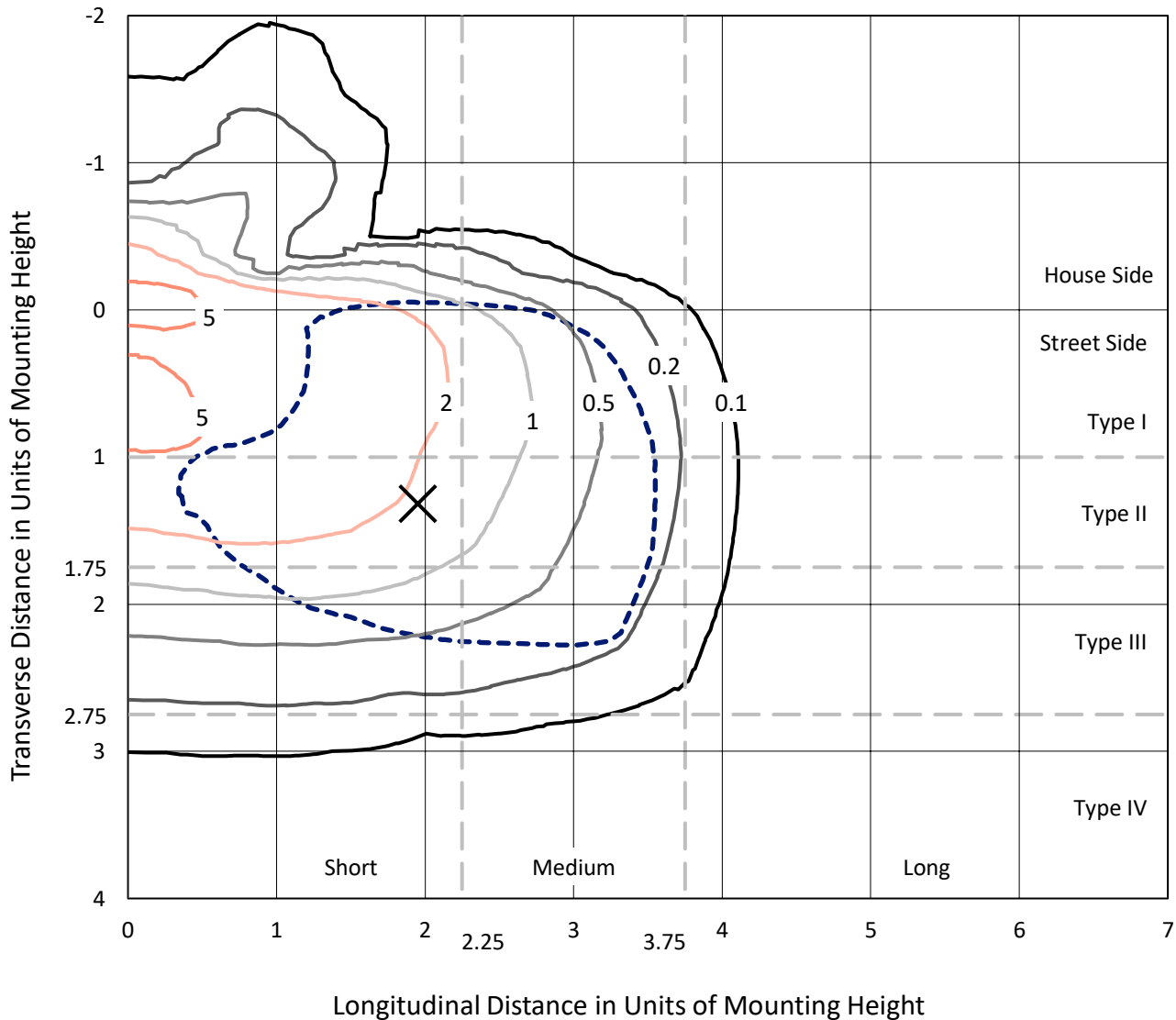
Lumens per Lamp: N/A
Luminaire Lumens: 34502.4 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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: P477753
 CATALOG NUMBER: IFLD-L-SA7B-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

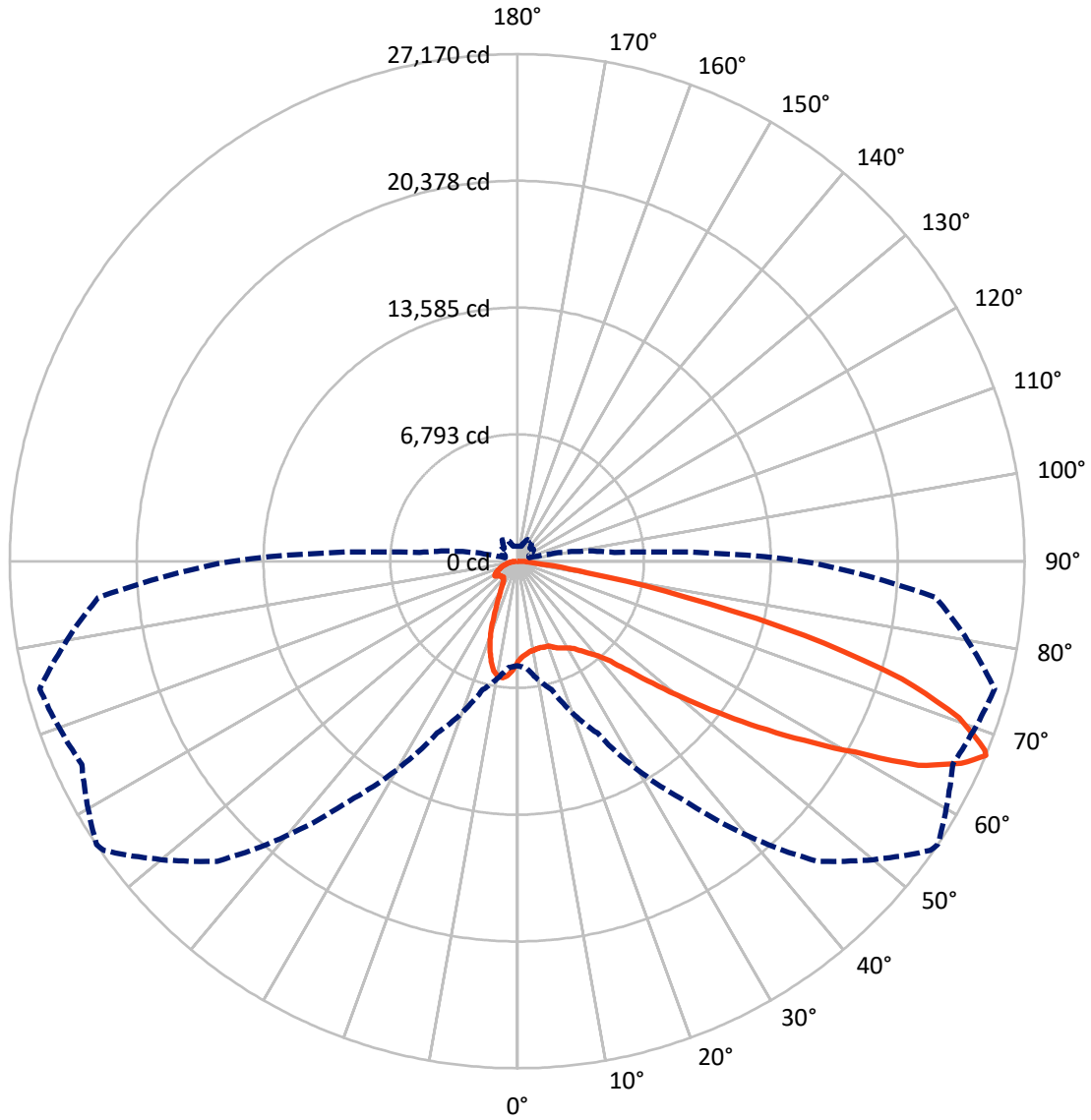
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

REPORT NUMBER: P477753
CATALOG NUMBER: IFLD-L-SA7B-735-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477753
 CATALOG NUMBER: IFLD-L-SA7B-735-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5462.1	0.0	5462.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	29040.3	0.0	29040.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	34502.4	0.0	34502.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.2	1.5
10°-20°	1410.9	4.1
20°-30°	2212.8	6.4
30°-40°	3158.8	9.2
40°-50°	4767.5	13.8
50°-60°	7589.0	22.0
60°-70°	9702.0	28.1
70°-80°	4730.4	13.7
80°-90°	413.8	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°	34502.4	100.0
0°-180°	34502.4	100.0

Coefficient of Utilization

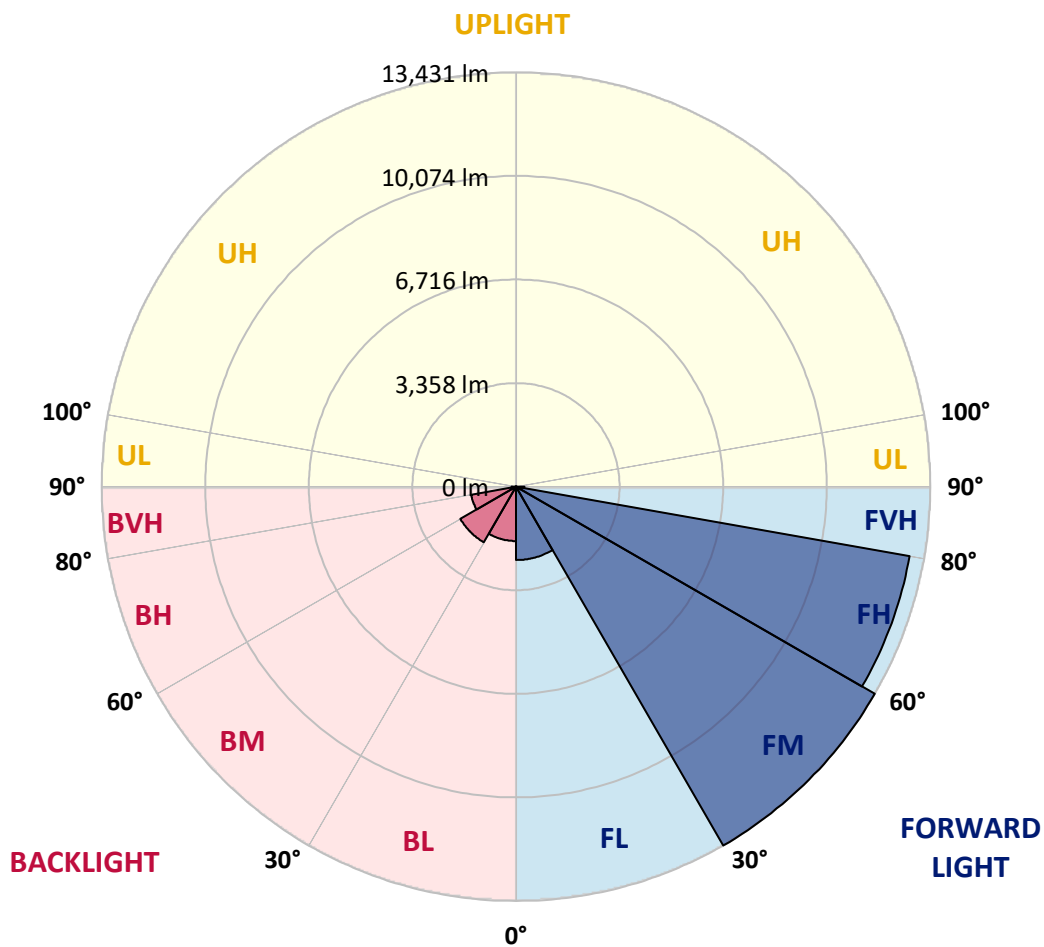


REPORT NUMBER: P477753
 CATALOG NUMBER: IFLD-L-SA7B-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2377.6	6.9			
FM (30°-60°)	13431.5	38.9			
FH (60°-80°)	12956.4	37.6			G5
FVH (80°-90°)	274.8	0.8			G3/500
BL (0°-30°)	1763.3	5.1	B3/2500		
BM (30°-60°)	2083.8	6.0	B2/2500		
BH (60°-80°)	1475.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	139.0	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-G5
 Type III Short





REPORT NUMBER: P477753
 CATALOG NUMBER: IFLD-L-SA7B-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5
2.5°	4931.6	4911.3	4935.6	4911.3	5020.6	5085.3	5105.5	5133.8	5235.0	5332.1
5°	4725.2	4636.2	4733.3	4765.7	4773.8	4883.0	4996.3	5016.5	5069.1	5226.9
7.5°	4381.4	4482.5	4446.1	4543.2	4644.3	4753.6	4939.6	4887.1	5081.2	5230.9
10°	4308.5	4316.6	4357.1	4393.5	4482.5	4624.1	4883.0	4850.6	5048.9	5368.5
12.5°	4381.4	4381.4	4369.2	4340.9	4442.0	4579.6	4785.9	4802.1	5113.6	5408.9
15°	4636.2	4684.8	4555.3	4575.5	4535.1	4579.6	4761.6	4798.1	5137.9	5441.3
17.5°	5259.2	5243.1	5089.3	4874.9	4696.9	4668.6	4794.0	4834.5	5113.6	5534.3
20°	5866.1	5833.7	5566.7	5344.2	4992.2	4826.4	4846.6	4850.6	5154.1	5595.0
22.5°	6541.7	6626.7	6335.4	5882.3	5445.3	5032.7	4951.8	5016.5	5247.1	5627.4
25°	7601.6	7419.6	7168.8	6574.1	5870.1	5352.3	5125.7	5158.1	5336.1	5708.3
27.5°	8366.3	8293.4	7901.0	7419.6	6464.8	5603.1	5218.8	5279.5	5497.9	5704.3
30°	9102.5	9102.5	8863.9	8143.7	7091.9	6023.9	5417.0	5388.7	5421.1	5696.2
32.5°	9964.3	9846.9	9503.1	9025.7	7880.8	6408.2	5574.8	5582.9	5582.9	5845.9
35°	10417.4	10607.5	10376.9	9600.2	8483.6	7047.4	5955.1	5894.4	5849.9	6011.7
37.5°	11080.8	11194.1	10951.4	10494.2	9232.0	7565.2	6290.9	6242.3	5983.4	6141.2
40°	11481.3	11461.1	11453.0	11242.7	10223.2	8176.1	6784.4	6659.0	6311.1	6598.3
42.5°	11707.9	11667.4	12165.0	12035.6	11157.7	9074.2	7403.4	7334.6	6950.3	7411.5
45°	11962.8	12262.1	12670.7	13034.8	12246.0	10336.4	8451.2	8354.1	8010.2	8596.8
47.5°	12185.3	12553.4	13075.3	13463.7	13229.0	11707.9	9745.8	9770.1	9543.5	10146.3
50°	12557.5	12593.9	13301.9	14086.7	14268.7	12974.2	11485.4	11444.9	11343.8	12189.3
52.5°	12444.2	12553.4	13447.5	14450.8	14750.2	14313.2	13354.4	13475.8	13342.3	14406.3
55°	10599.4	10927.1	13358.5	14835.1	15891.0	15826.3	15757.5	15676.6	15668.5	16898.4
57.5°	9762.0	10029.0	11768.6	15259.9	17112.8	17590.2	18035.2	18124.2	18120.1	19604.9
60°	9211.8	9486.9	11125.3	15029.3	18152.5	19900.2	20753.8	20765.9	20741.7	22497.5
62.5°	8135.7	8402.7	10012.8	13767.1	18439.7	22032.2	23933.6	24091.4	22978.9	24989.5
65°	6841.1	7059.5	8479.5	11837.4	17675.1	23387.5	26324.6	26138.5	24864.1	26413.6
67°	5595.0	5740.7	7124.3	10162.5	15676.6	22736.1	27016.4	27170.1	25733.9	26474.3
67.5°	5239.0	5372.5	6679.2	9592.1	14916.0	22242.6	27040.6	27016.4	25750.1	26486.4
70°	3637.0	3693.6	4551.3	6598.3	10987.8	18791.7	25066.4	25123.0	24669.9	25050.2
72.5°	2411.2	2496.1	3042.3	4158.9	6477.0	13674.0	20952.0	21558.9	21271.6	20539.4
75°	1553.5	1602.0	1990.4	2475.9	3187.9	7787.7	15478.4	15882.9	15223.5	12703.1
77.5°	869.8	922.4	1201.5	1505.0	1553.5	3240.5	8693.9	9195.6	7791.8	5396.8
80°	542.1	610.9	906.2	894.1	740.3	1189.4	3584.4	3839.3	3115.1	1856.9
82.5°	408.6	461.2	699.9	627.1	416.7	530.0	1343.1	1440.2	1140.9	716.1
85°	279.1	352.0	505.7	388.4	218.5	254.9	534.0	574.5	521.9	347.9
87.5°	101.1	149.7	263.0	194.2	97.1	76.9	174.0	194.2	186.1	157.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477753
 CATALOG NUMBER: IFLD-L-SA7B-735-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5368.5	0°	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5	5368.5
5417.0	2.5°	5493.9	5550.5	5578.8	5744.7	5813.5	5801.4	5817.5	5841.8	5866.1	5898.5
5485.8	5°	5538.4	5712.4	5805.4	5999.6	6129.0	6072.4	6145.2	6125.0	6096.7	6092.6
5611.2	7.5°	5684.0	5906.5	6185.7	6238.3	6294.9	6153.3	6032.0	5866.1	5825.6	5684.0
5716.4	10°	5943.0	6125.0	6464.8	6485.1	6234.2	5870.1	5599.1	5255.2	5251.2	5044.8
5878.2	12.5°	6189.7	6396.1	6671.2	6553.8	5955.1	5457.5	5016.5	4640.3	4482.5	4377.3
5975.3	15°	6343.5	6683.3	6828.9	6323.2	5465.6	4794.0	4223.6	3819.0	3657.2	3580.3
6096.7	17.5°	6485.1	6958.4	6893.7	5918.7	4862.8	4110.3	3430.6	3078.7	3034.2	2977.5
6290.9	20°	6679.2	7059.5	6663.1	5392.8	4179.1	3228.4	2795.5	2625.6	2666.0	2690.3
6311.1	22.5°	6861.3	7112.1	6371.8	4818.3	3301.2	2556.8	2342.4	2378.8	2439.5	2520.4
6359.6	25°	6942.2	7197.1	5979.4	4025.3	2512.3	2152.2	2103.7	2164.4	2265.5	2269.6
6428.4	27.5°	6994.8	7136.4	5506.0	3252.6	1986.4	1881.2	1954.0	1998.5	2010.7	2059.2
6574.1	30°	7087.8	7011.0	4907.3	2326.2	1666.8	1670.8	1763.9	1763.9	1763.9	1800.3
6719.7	32.5°	7249.7	6926.0	4207.4	1699.1	1436.2	1565.6	1541.4	1533.3	1517.1	1472.6
6905.8	35°	7350.8	6695.4	3321.4	1258.2	1290.5	1436.2	1428.1	1302.7	1092.3	987.1
7379.1	37.5°	7561.2	6578.1	2443.5	970.9	1205.6	1371.5	1326.9	1023.5	792.9	691.8
7965.7	40°	8014.3	6501.2	1691.1	849.6	1148.9	1339.1	1185.4	873.8	606.8	428.8
8871.9	42.5°	8568.5	6505.3	1148.9	801.0	1153.0	1407.9	1140.9	748.4	428.8	343.9
10081.6	45°	9312.9	6444.6	788.9	801.0	1225.8	1521.1	1169.2	679.7	416.7	436.9
11598.7	47.5°	10113.9	6497.2	586.6	728.2	1237.9	1525.2	1068.0	667.5	400.5	505.7
13249.3	50°	11048.5	6549.8	485.5	671.6	1242.0	1476.6	983.1	651.3	416.7	534.0
15142.6	52.5°	12011.3	6715.7	412.6	635.2	1290.5	1456.4	983.1	675.6	416.7	465.2
17553.8	55°	13447.5	7140.4	594.7	792.9	1468.5	1589.9	1209.6	946.7	582.6	598.7
19863.8	57.5°	15033.4	7577.4	663.5	833.4	1509.0	1432.1	1302.7	1043.8	614.9	619.0
21660.0	60°	16077.1	7593.5	659.4	813.2	1411.9	1237.9	1274.4	1100.4	627.1	530.0
22772.5	62.5°	16493.8	7100.0	687.7	813.2	1314.8	1157.0	1306.7	1185.4	647.3	663.5
23088.1	65°	16020.5	6080.5	663.5	728.2	1157.0	1035.7	1314.8	1201.5	708.0	667.5
22521.7	67°	15280.1	5239.0	675.6	691.8	1076.1	983.1	1383.6	1262.2	821.3	801.0
22226.4	67.5°	15069.8	5016.5	671.6	671.6	1047.8	966.9	1399.8	1262.2	837.4	829.3
19617.0	70°	13281.6	4065.8	687.7	663.5	926.4	918.3	1488.8	1331.0	962.8	970.9
14410.3	72.5°	10109.9	3082.7	683.7	663.5	805.1	877.9	1500.9	1375.5	1047.8	970.9
8070.9	75°	5744.7	1844.8	602.8	578.5	635.2	764.6	1403.8	1310.8	1019.5	869.8
3224.3	77.5°	2374.8	950.7	554.2	521.9	525.9	623.0	1169.2	1221.8	970.9	740.3
1076.1	80°	886.0	570.4	445.0	416.7	404.6	457.2	833.4	975.0	829.3	606.8
473.3	82.5°	461.2	356.0	303.4	303.4	275.1	291.3	449.1	647.3	627.1	416.7
190.1	85°	234.6	202.3	174.0	169.9	153.7	137.5	226.6	384.3	360.1	230.6
85.0	87.5°	125.4	113.3	72.8	68.8	56.6	36.4	40.5	76.9	125.4	101.1
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



<u>180°</u>
5368.5
5930.8
6129.0
5732.6
5036.7
4353.0
3564.2
3005.9
2662.0
2475.9
2310.0
2103.7
1840.7
1448.3
1035.7
687.7
416.7
335.8
445.0
562.3
619.0
477.4
631.1
598.7
546.2
671.6
655.4
788.9
813.2
898.1
861.7
776.8
699.9
554.2
327.7
190.1
72.8
0.0

F REPORT)