

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: P477365

Luminaire Tested: **IFLD-L-SA7D-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477365
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

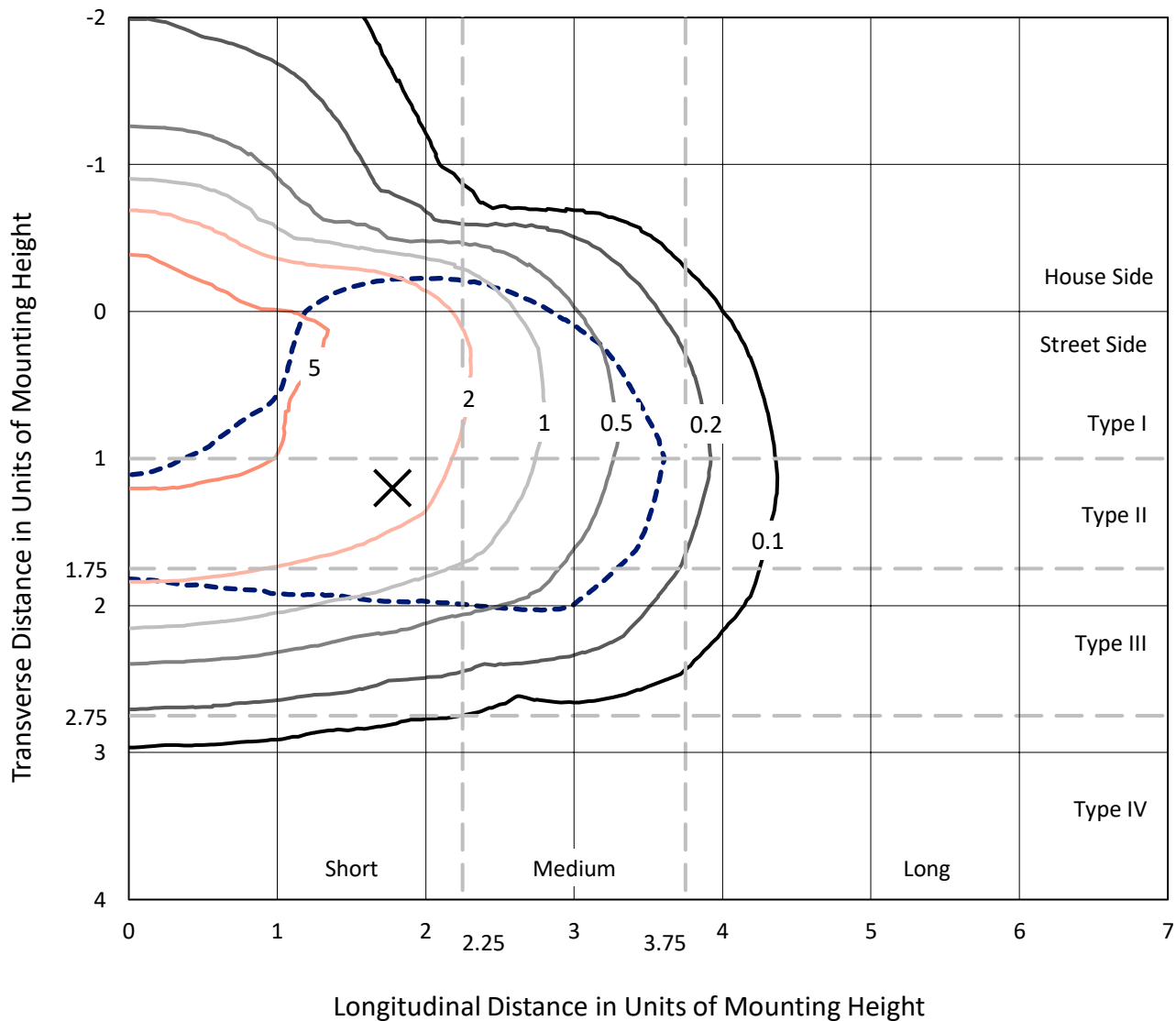
Lumens per Lamp: N/A
Luminaire Lumens: 49001.8 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): 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: P477365
 CATALOG NUMBER: IFLD-L-SA7D-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

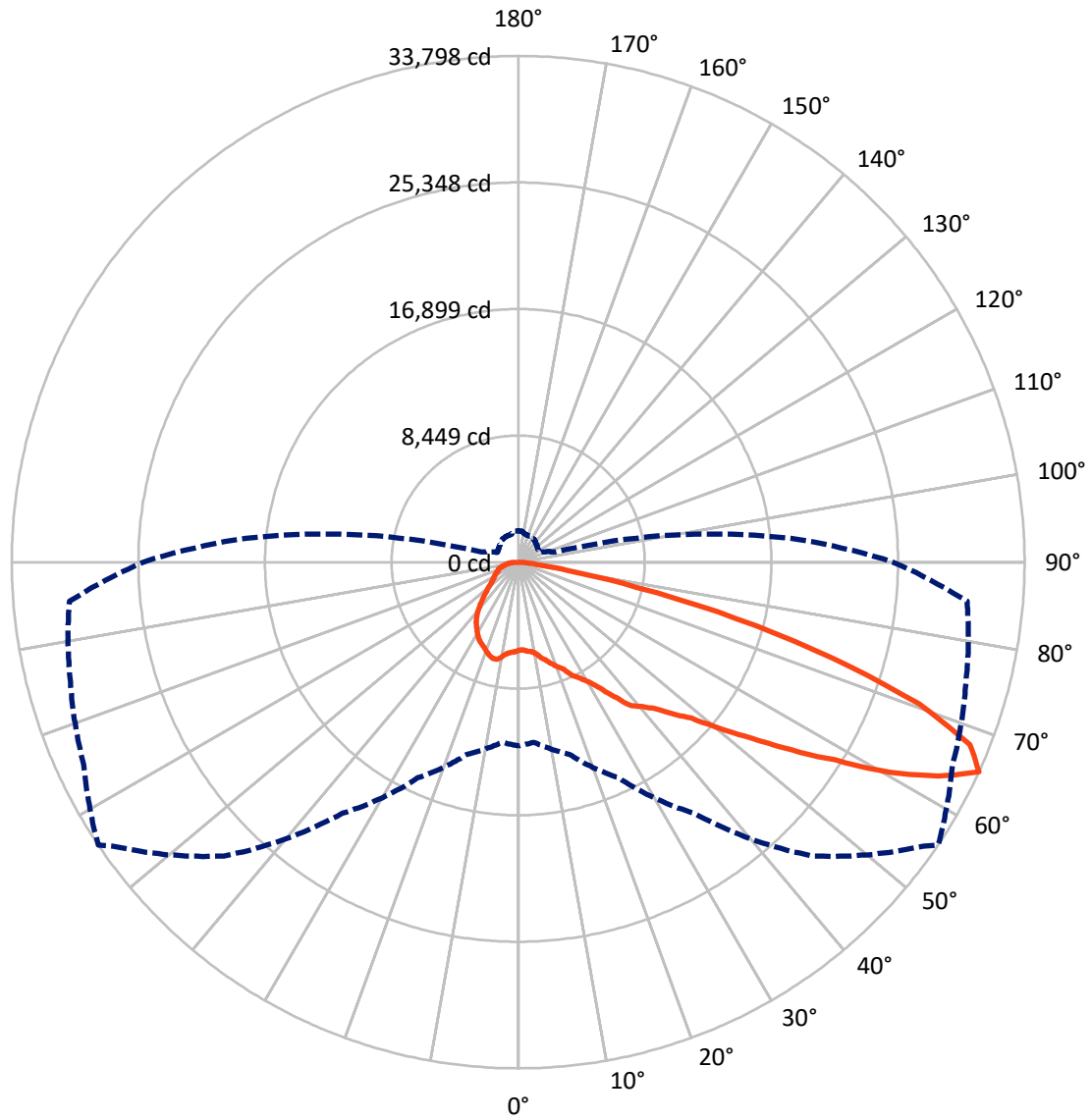
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

REPORT NUMBER: P477365
CATALOG NUMBER: IFLD-L-SA7D-735-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477365
 CATALOG NUMBER: IFLD-L-SA7D-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10989.5	0.0	10989.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	38012.3	0.0	38012.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	49001.8	0.0	49001.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.8	1.2
10°-20°	1892.6	3.9
20°-30°	3369.9	6.9
30°-40°	5046.3	10.3
40°-50°	7476.7	15.3
50°-60°	11520.5	23.5
60°-70°	13042.6	26.6
70°-80°	5412.8	11.0
80°-90°	657.6	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°	49001.8	100.0
0°-180°	49001.8	100.0

Coefficient of Utilization

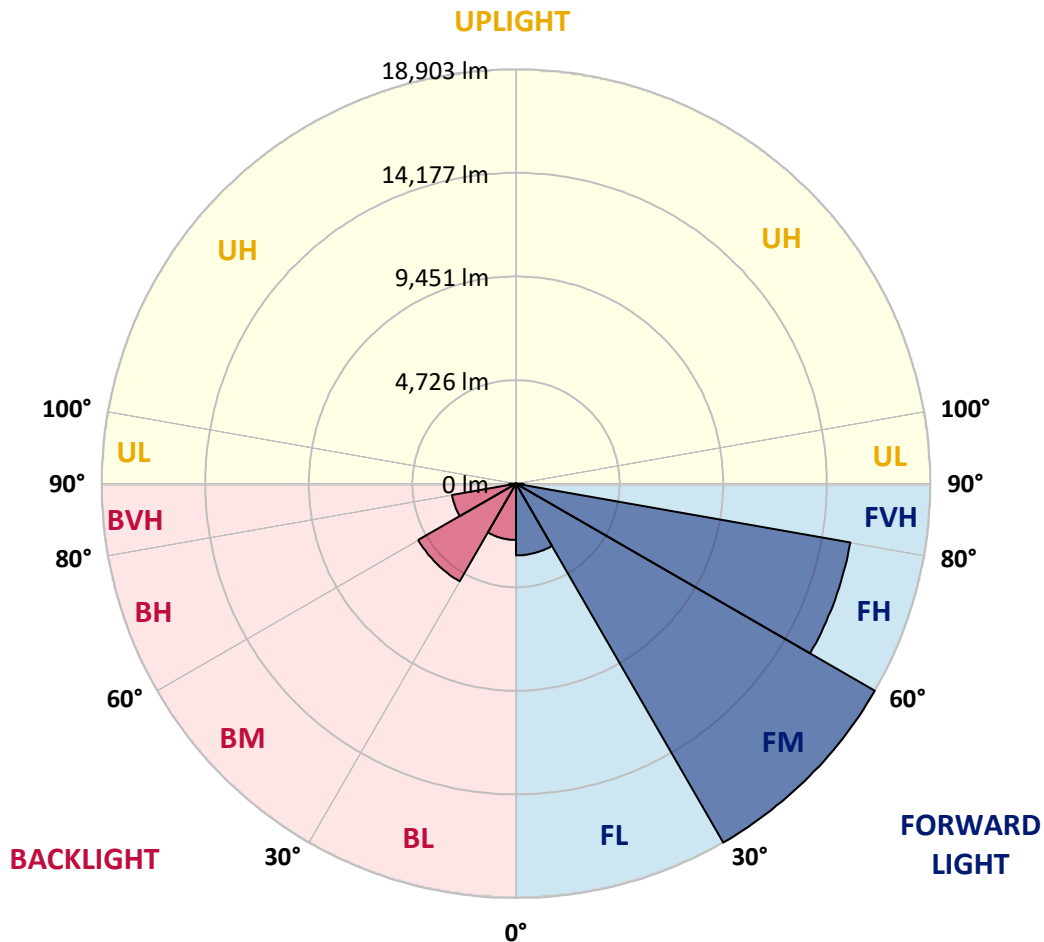


REPORT NUMBER: P477365
 CATALOG NUMBER: IFLD-L-SA7D-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3274.7	6.7			
FM (30°-60°)	18902.8	38.6			
FH (60°-80°)	15487.9	31.6			G5
FVH (80°-90°)	346.9	0.7			G3/500
BL (0°-30°)	2570.5	5.2	B4/5000		
BM (30°-60°)	5140.7	10.5	B4/8500		
BH (60°-80°)	2967.6	6.1	B4/5000		G4/5000
BVH (80°-90°)	310.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





REPORT NUMBER: P477365
 CATALOG NUMBER: IFLD-L-SA7D-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6
2.5°	5727.8	5758.5	5738.0	5799.6	5850.9	5850.9	5891.9	5861.1	5902.1	5958.5
5°	5917.5	5794.4	5861.1	5891.9	5876.5	5902.1	5861.1	5963.7	5897.0	6004.7
7.5°	5963.7	6009.8	6066.2	6014.9	6061.1	6035.5	6040.6	6025.2	5989.3	6076.5
10°	6302.1	6235.4	6363.6	6286.7	6276.5	6266.2	6245.7	6168.8	6255.9	6261.1
12.5°	6691.8	6630.3	6625.2	6563.6	6645.7	6497.0	6527.7	6486.7	6502.1	6522.6
15°	6973.8	6948.2	7066.1	6994.4	6886.7	6820.0	6891.8	6779.0	6835.4	6825.1
17.5°	7532.8	7527.7	7440.5	7322.5	7261.0	7163.6	7148.2	7102.0	7143.1	7122.6
20°	7922.5	7978.9	7994.3	7855.8	7620.0	7512.3	7486.6	7450.7	7496.9	7481.5
22.5°	8517.3	8430.1	8496.8	8255.8	8168.6	7912.2	7819.9	7768.7	7989.2	7932.7
25°	8896.8	8989.1	8922.4	8840.4	8645.5	8327.6	8260.9	8373.7	8460.9	8399.4
27.5°	9753.1	9660.8	9599.3	9353.2	9225.0	8891.7	8814.7	8773.7	8794.2	8830.1
30°	10404.4	10455.6	10317.2	10142.8	9819.8	9481.4	9301.9	9266.0	9194.2	9132.7
32.5°	11332.5	11255.6	11173.5	11060.7	10783.8	10337.7	10163.4	10030.0	9814.7	9527.5
35°	11778.6	11999.1	11937.6	11635.0	11424.8	11255.6	11204.3	10999.2	10819.7	10368.5
37.5°	12522.2	12614.5	12527.3	12429.9	12332.4	12153.0	12091.4	12147.8	11794.0	11050.5
40°	13004.2	13199.0	13378.5	13106.7	13086.2	13122.1	12742.7	12676.0	11947.8	11558.1
42.5°	13988.7	14070.8	14106.7	14096.4	14214.3	14214.3	13491.3	13347.7	12829.8	12511.9
45°	15291.2	15357.8	15486.0	15578.3	15445.0	15511.7	14481.0	14424.6	13963.1	13901.5
47.5°	16419.3	16578.3	16865.4	17137.2	17311.5	17085.9	15957.8	15557.8	15439.9	15809.1
50°	17403.8	17214.1	17885.9	18162.8	18926.8	19301.1	17588.4	17429.5	17239.8	17947.4
52.5°	17501.3	17757.7	18706.3	19260.1	20834.4	21526.6	19588.3	19521.6	19290.9	20106.2
55°	18198.7	18167.9	19121.7	20321.6	22193.2	23357.3	22193.2	22152.2	21649.7	22424.0
57.5°	18080.7	18393.5	19147.3	20824.1	23418.8	25321.2	25213.5	24931.5	24229.0	24859.7
60°	17680.7	17762.8	18680.7	20808.7	24131.6	27336.4	28474.8	28531.2	27095.4	27598.0
62.5°	15414.2	15604.0	16768.0	19172.9	23623.9	28726.1	31659.2	31459.2	30310.6	29736.3
65°	12260.6	12070.9	13281.1	15880.9	20465.2	27741.5	33054.0	33797.5	31992.5	30941.3
67.5°	7517.4	7471.2	8635.3	10927.4	15311.7	23608.5	31941.2	32520.7	31525.9	30684.9
70°	3871.5	3753.6	4481.7	6097.0	9624.9	17321.8	27798.0	28367.1	29315.8	27521.0
72.5°	1805.0	1779.4	2169.1	2999.8	4902.2	10183.9	21526.6	21936.8	23936.7	23203.4
75°	1061.5	1076.8	1297.3	1569.1	2389.6	4799.6	14286.1	15080.9	17250.0	16721.8
77.5°	794.8	794.8	923.0	1092.2	1394.8	1856.3	7050.8	8102.0	10086.4	9071.1
80°	584.6	594.8	707.6	820.5	969.2	958.9	2799.8	3281.8	4625.3	3953.6
82.5°	456.4	471.8	548.7	610.2	682.0	579.4	1148.6	1235.8	1902.4	1512.7
85°	317.9	328.2	430.7	415.4	415.4	323.1	476.9	502.5	753.8	717.9
87.5°	76.9	87.2	210.2	230.8	174.3	97.4	148.7	169.2	271.8	312.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477365
 CATALOG NUMBER: IFLD-L-SA7D-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5881.6	0°	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6
5984.2	2.5°	5907.3	5927.8	6014.9	5968.8	5994.4	5886.7	5973.9	5902.1	5963.7	5932.9
6030.3	5°	6071.3	6025.2	6076.5	6040.6	6040.6	6081.6	6143.1	6097.0	6189.3	6148.3
6066.2	7.5°	6138.0	6143.1	6173.9	6179.0	6153.4	6281.6	6286.7	6271.3	6358.5	6338.0
6312.4	10°	6302.1	6307.2	6363.6	6394.4	6368.8	6414.9	6363.6	6322.6	6317.5	6297.0
6507.2	12.5°	6563.6	6614.9	6604.6	6630.3	6635.4	6440.6	6322.6	6122.6	6097.0	6122.6
6794.4	15°	6804.6	6784.1	6794.4	6845.6	6630.3	6317.5	6107.2	5938.0	5948.3	5953.4
7168.7	17.5°	7091.8	7107.2	7122.6	6886.7	6491.8	6122.6	5938.0	5938.0	5886.7	5907.3
7430.2	20°	7420.0	7358.4	7225.1	6891.8	6250.8	5897.0	5840.6	5840.6	5779.1	5738.0
7712.3	22.5°	7676.4	7553.3	7353.3	6732.8	6035.5	5809.8	5671.4	5573.9	5502.2	5420.1
8025.0	25°	7840.4	7773.8	7384.1	6568.7	5876.5	5579.1	5374.0	5225.3	5133.0	5025.3
8271.2	27.5°	8091.7	7963.5	7471.2	6379.0	5702.1	5348.3	5030.4	4799.6	4625.3	4512.5
8645.5	30°	8430.1	8245.5	7409.7	6107.2	5435.5	4948.4	4574.0	4276.6	4076.6	3984.3
8999.3	32.5°	8707.1	8466.0	7358.4	5861.1	5138.1	4543.3	4045.9	3743.3	3630.5	3512.6
9594.2	35°	9235.2	8758.3	7322.5	5722.7	4871.4	4138.2	3615.1	3353.6	3210.0	3035.7
9948.0	37.5°	9640.3	9266.0	7235.4	5435.5	4527.9	3743.3	3286.9	3051.1	2835.7	2651.1
10768.4	40°	10276.2	9973.6	7240.5	5030.4	4122.8	3404.9	3030.5	2784.4	2512.6	2353.7
11983.7	42.5°	11470.9	10671.0	7271.3	4707.3	3666.4	3128.0	2799.8	2507.5	2235.7	2102.4
13368.2	45°	12937.5	11629.9	7081.5	4415.1	3199.8	2866.5	2522.9	2230.6	2056.3	1958.8
15250.2	47.5°	14624.6	12568.3	6825.1	3866.4	2810.0	2589.6	2266.5	2097.3	1969.1	1912.7
17675.6	50°	16511.6	13911.8	6753.3	3363.9	2507.5	2353.7	2143.4	2015.2	1928.1	1861.4
20408.8	52.5°	18942.2	15475.8	6609.8	2845.9	2246.0	2163.9	2097.3	2010.1	1933.2	1876.8
22957.3	55°	21265.1	17209.0	6455.9	2420.3	2061.4	2071.6	2107.5	2030.6	1964.0	1876.8
25813.5	57.5°	23880.3	18978.1	5886.7	2107.5	1922.9	2025.5	2097.3	2010.1	1943.4	1876.8
28736.3	60°	25495.6	19972.9	4774.0	1835.8	1799.9	1938.3	2035.7	1943.4	1871.7	1897.3
30079.8	62.5°	26151.9	19449.8	3599.7	1666.5	1712.7	1820.4	1938.3	1902.4	1851.1	1948.6
30064.5	65°	25034.1	18244.8	2574.2	1523.0	1594.8	1702.4	1851.1	1892.2	1907.6	2097.3
27613.3	67.5°	22275.3	15886.0	1892.2	1405.0	1471.7	1630.6	1912.7	1979.3	1969.1	2205.0
23172.7	70°	17824.3	12424.7	1476.8	1307.6	1425.5	1687.1	1999.9	1999.9	1928.1	2205.0
17675.6	72.5°	12968.3	8758.3	1271.7	1194.8	1307.6	1548.6	1989.6	1984.5	1892.2	2015.2
11255.6	75°	7850.7	5097.1	1123.0	1082.0	1123.0	1328.1	1902.4	1871.7	1743.5	1733.2
5415.0	77.5°	3912.5	2563.9	917.9	958.9	979.4	1112.7	1671.7	1717.8	1543.5	1502.5
2138.3	80°	1651.2	1117.9	764.0	825.6	825.6	938.4	1389.6	1420.4	1282.0	1205.0
846.1	82.5°	753.8	641.0	651.2	717.9	671.7	728.2	1102.5	1138.4	1040.9	912.8
358.9	85°	317.9	364.1	497.4	564.1	497.4	471.8	758.9	799.9	676.9	564.1
153.8	87.5°	143.6	200.0	312.8	410.2	251.3	220.5	405.1	420.5	338.4	251.3
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>
5881.6
5876.5
6091.9
6307.2
6297.0
6132.9
6025.2
5912.4
5676.5
5374.0
5045.8
4563.8
4035.6
3507.4
3020.3
2656.2
2369.1
2112.7
1979.3
1902.4
1871.7
1871.7
1871.7
1871.7
1876.8
1922.9
2097.3
2220.3
2158.8
1943.4
1712.7
1476.8
1179.4
892.2
569.2
235.9
0.0

F REPORT)