

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: P477287

Luminaire Tested: **IFLD-L-SA7D-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477287
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

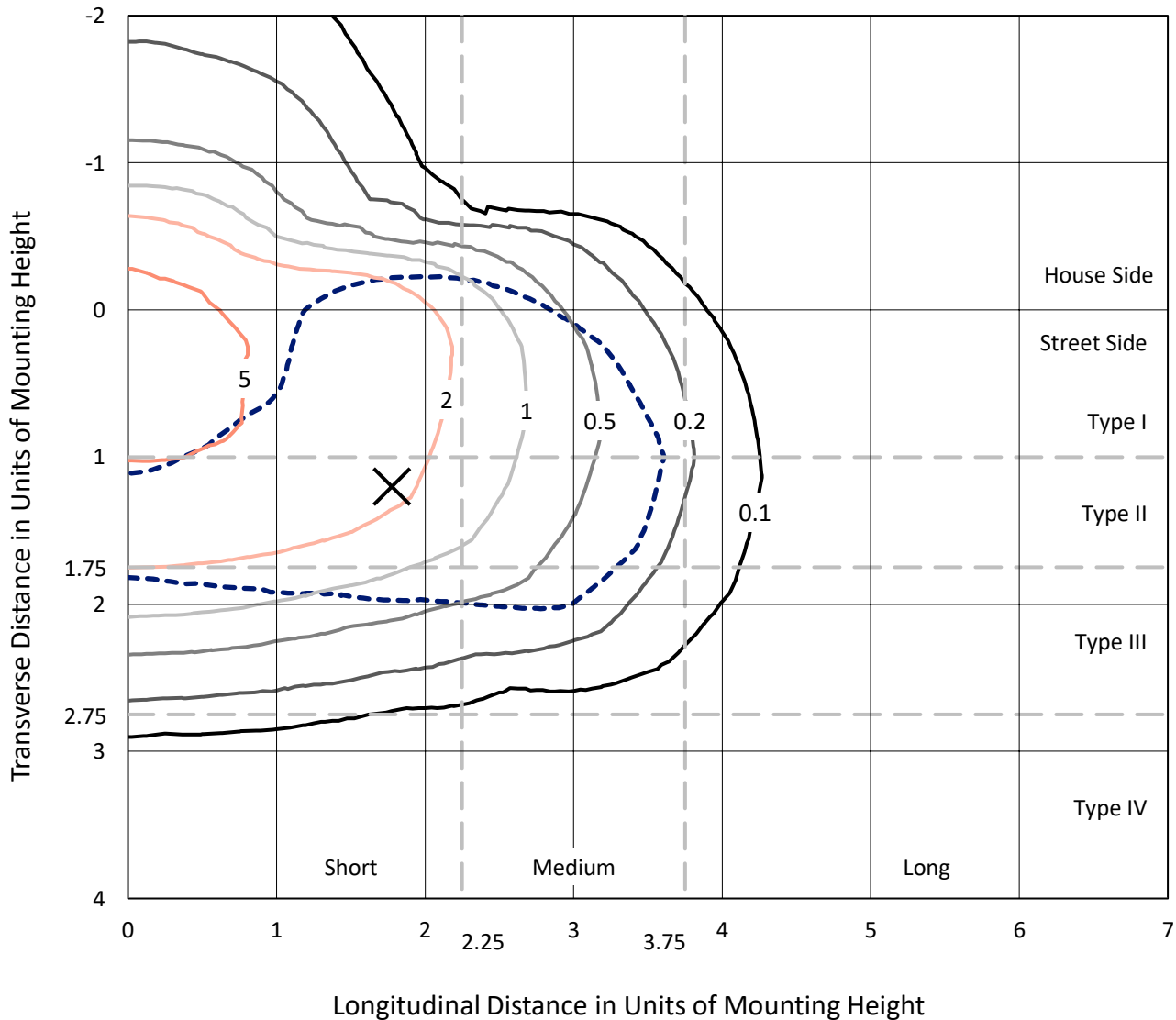
Lumens per Lamp: N/A
Luminaire Lumens: 41549.5 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (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: P477287
 CATALOG NUMBER: IFLD-L-SA7D-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

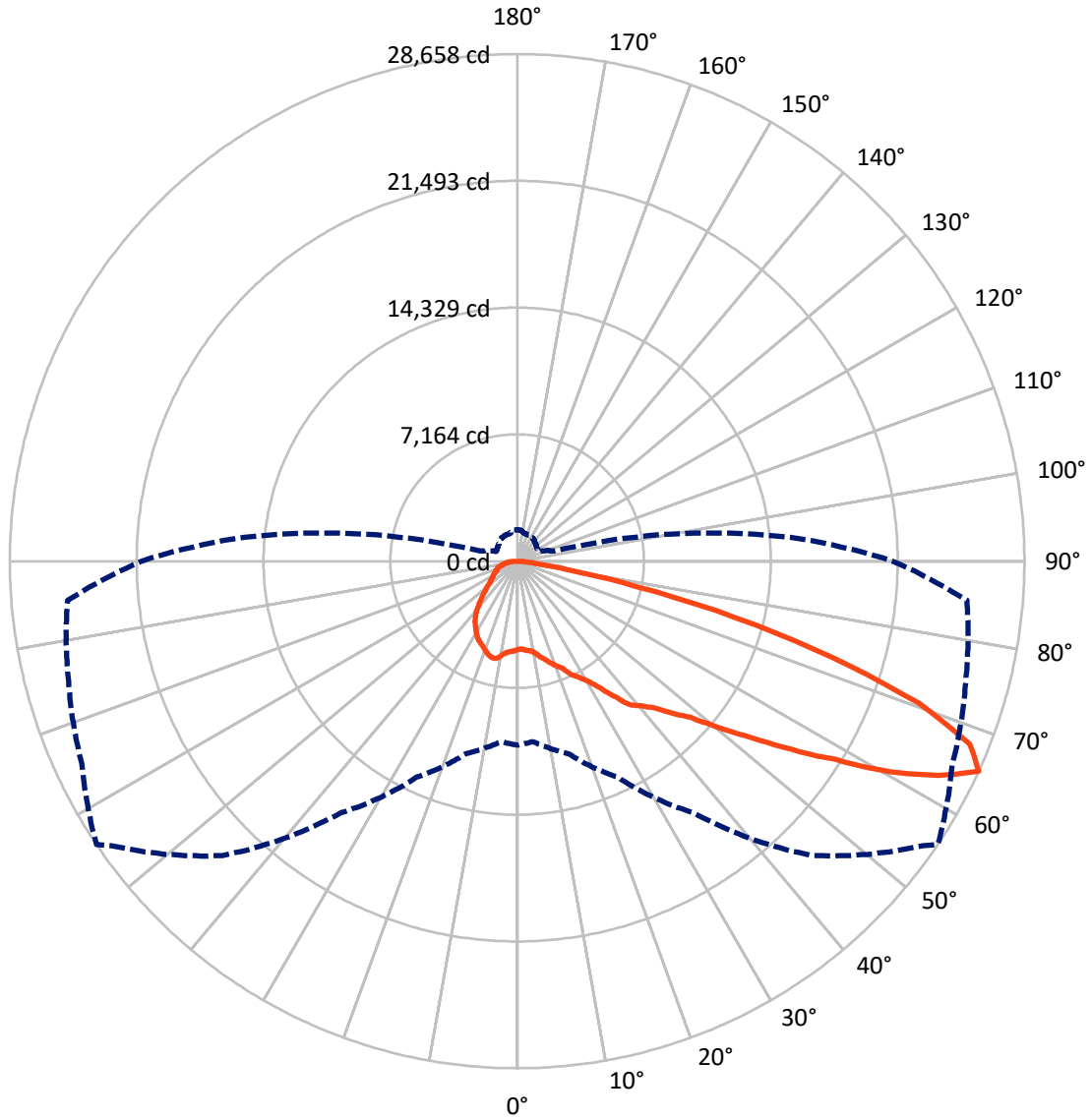
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

REPORT NUMBER: P477287
CATALOG NUMBER: IFLD-L-SA7D-727-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477287
 CATALOG NUMBER: IFLD-L-SA7D-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9318.2	0.0	9318.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	32231.3	0.0	32231.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	41549.5	0.0	41549.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.2	1.2
10°-20°	1604.8	3.9
20°-30°	2857.4	6.9
30°-40°	4278.8	10.3
40°-50°	6339.6	15.3
50°-60°	9768.4	23.5
60°-70°	11059.1	26.6
70°-80°	4589.6	11.0
80°-90°	557.6	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°	41549.5	100.0
0°-180°	41549.5	100.0

Coefficient of Utilization

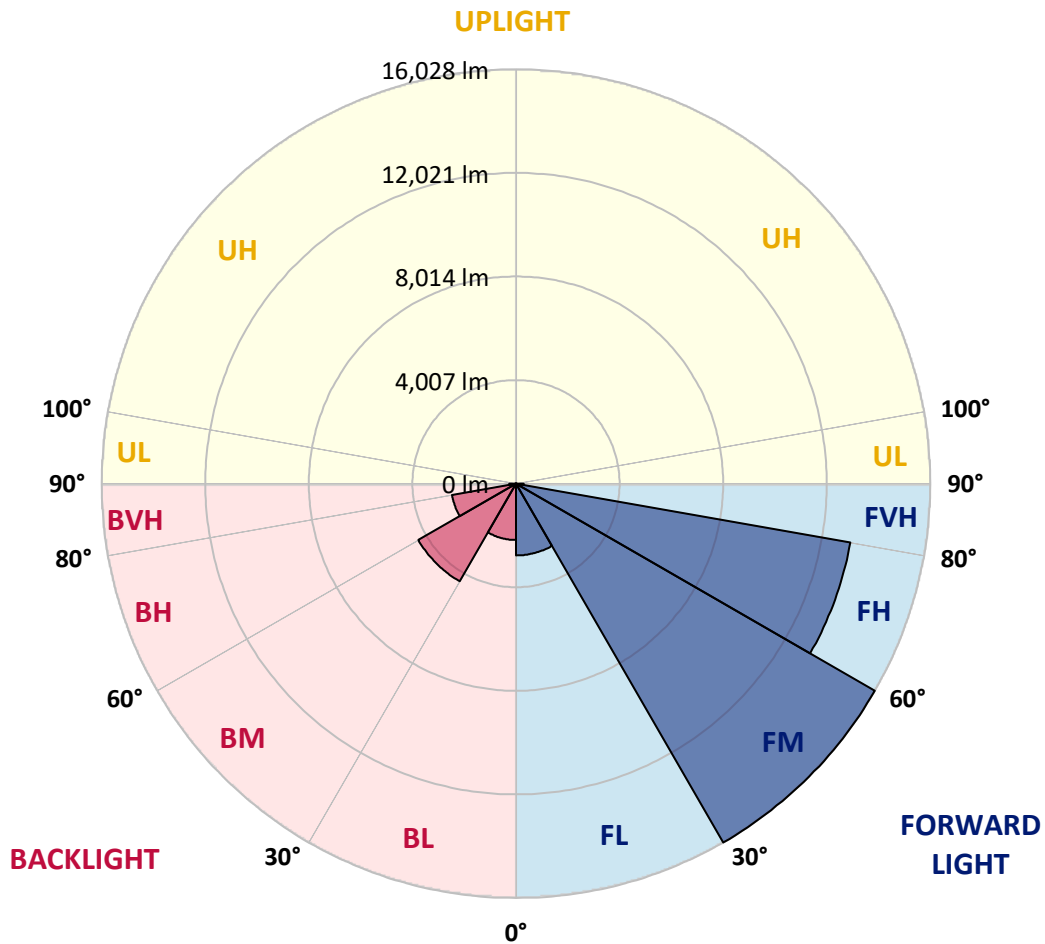


REPORT NUMBER: P477287
 CATALOG NUMBER: IFLD-L-SA7D-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2776.7	6.7			
FM (30°-60°)	16028.0	38.6			
FH (60°-80°)	13132.5	31.6			G5
FVH (80°-90°)	294.1	0.7			G3/500
BL (0°-30°)	2179.6	5.2	B3/2500		
BM (30°-60°)	4358.9	10.5	B3/5000		
BH (60°-80°)	2516.2	6.1	B4/5000		G4/5000
BVH (80°-90°)	263.5	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: P477287
 CATALOG NUMBER: IFLD-L-SA7D-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1
2.5°	4856.7	4882.8	4865.4	4917.6	4961.0	4961.0	4995.8	4969.7	5004.5	5052.3
5°	5017.6	4913.2	4969.7	4995.8	4982.8	5004.5	4969.7	5056.7	5000.2	5091.5
7.5°	5056.7	5095.8	5143.6	5100.2	5139.3	5117.6	5121.9	5108.9	5078.4	5152.3
10°	5343.7	5287.1	5395.8	5330.6	5321.9	5313.2	5295.8	5230.6	5304.5	5308.9
12.5°	5674.1	5621.9	5617.6	5565.4	5635.0	5508.9	5535.0	5500.2	5513.2	5530.6
15°	5913.2	5891.5	5991.5	5930.6	5839.3	5782.8	5843.7	5748.0	5795.8	5787.1
17.5°	6387.2	6382.8	6308.9	6208.9	6156.7	6074.1	6061.1	6021.9	6056.7	6039.3
20°	6717.6	6765.4	6778.5	6661.1	6461.1	6369.8	6348.0	6317.6	6356.7	6343.7
22.5°	7222.0	7148.1	7204.6	7000.2	6926.3	6708.9	6630.7	6587.2	6774.1	6726.3
25°	7543.7	7622.0	7565.5	7495.9	7330.7	7061.1	7004.6	7100.2	7174.1	7122.0
27.5°	8269.8	8191.6	8139.4	7930.7	7822.0	7539.4	7474.2	7439.4	7456.8	7487.2
30°	8822.0	8865.5	8748.1	8600.3	8326.4	8039.4	7887.2	7856.8	7795.9	7743.7
32.5°	9609.0	9543.8	9474.2	9378.6	9143.8	8765.5	8617.7	8504.6	8322.0	8078.5
35°	9987.3	10174.2	10122.1	9865.5	9687.3	9543.8	9500.3	9326.4	9174.2	8791.6
37.5°	10617.7	10696.0	10622.1	10539.5	10456.9	10304.7	10252.5	10300.3	10000.3	9369.9
40°	11026.4	11191.7	11343.9	11113.4	11096.0	11126.5	10804.7	10748.2	10130.8	9800.3
42.5°	11861.3	11930.8	11961.3	11952.6	12052.6	12052.6	11439.5	11317.8	10878.6	10609.0
45°	12965.6	13022.2	13130.9	13209.1	13096.1	13152.6	12278.7	12230.8	11839.5	11787.3
47.5°	13922.2	14057.0	14300.5	14530.9	14678.7	14487.4	13530.9	13191.7	13091.7	13404.8
50°	14757.0	14596.1	15165.7	15400.5	16048.4	16365.8	14913.5	14778.7	14617.9	15217.9
52.5°	14839.6	15057.0	15861.4	16331.0	17665.8	18252.8	16609.2	16552.7	16357.1	17048.4
55°	15430.9	15404.9	16213.6	17231.0	18818.0	19805.0	18818.0	18783.2	18357.1	19013.7
57.5°	15330.9	15596.2	16235.3	17657.1	19857.2	21470.3	21379.0	21139.8	20544.2	21079.0
60°	14991.8	15061.4	15839.7	17644.1	20461.5	23179.0	24144.3	24192.1	22974.7	23400.8
62.5°	13070.0	13230.9	14217.9	16257.1	20031.1	24357.3	26844.4	26674.8	25700.8	25213.9
65°	10396.0	10235.1	11261.2	13465.7	17352.7	23522.5	28027.0	28657.5	27127.0	26235.6
67.5°	6374.1	6335.0	7322.0	9265.5	12983.0	20018.0	27083.5	27574.8	26731.3	26018.2
70°	3282.7	3182.7	3800.1	5169.7	8161.1	14687.4	23570.3	24053.0	24857.3	23335.5
72.5°	1530.5	1508.7	1839.2	2543.6	4156.7	8635.1	18252.8	18600.6	20296.3	19674.6
75°	900.0	913.1	1100.0	1330.5	2026.2	4069.7	12113.4	12787.4	14626.6	14178.7
77.5°	673.9	673.9	782.6	926.1	1182.6	1574.0	5978.5	6869.8	8552.5	7691.6
80°	495.7	504.4	600.0	695.7	821.8	813.1	2374.0	2782.7	3921.9	3352.3
82.5°	387.0	400.0	465.2	517.4	578.3	491.3	973.9	1047.9	1613.1	1282.7
85°	269.6	278.3	365.2	352.2	352.2	273.9	404.4	426.1	639.2	608.7
87.5°	65.2	73.9	178.3	195.7	147.8	82.6	126.1	143.5	230.4	265.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477287
 CATALOG NUMBER: IFLD-L-SA7D-727-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4987.1	0°	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1
5074.1	2.5°	5008.9	5026.3	5100.2	5061.0	5082.8	4991.5	5065.4	5004.5	5056.7	5030.6
5113.2	5°	5148.0	5108.9	5152.3	5121.9	5121.9	5156.7	5208.9	5169.7	5248.0	5213.2
5143.6	7.5°	5204.5	5208.9	5235.0	5239.3	5217.6	5326.3	5330.6	5317.6	5391.5	5374.1
5352.3	10°	5343.7	5348.0	5395.8	5421.9	5400.2	5439.3	5395.8	5361.0	5356.7	5339.3
5517.6	12.5°	5565.4	5608.9	5600.2	5621.9	5626.3	5461.0	5361.0	5191.5	5169.7	5191.5
5761.1	15°	5769.8	5752.4	5761.1	5804.5	5621.9	5356.7	5178.4	5034.9	5043.6	5048.0
6078.5	17.5°	6013.2	6026.3	6039.3	5839.3	5504.5	5191.5	5034.9	5034.9	4991.5	5008.9
6300.2	20°	6291.5	6239.3	6126.3	5843.7	5300.2	5000.2	4952.3	4952.3	4900.2	4865.4
6539.3	22.5°	6508.9	6404.6	6235.0	5708.9	5117.6	4926.2	4808.9	4726.2	4665.4	4595.8
6804.6	25°	6648.0	6591.5	6261.1	5569.7	4982.8	4730.6	4556.7	4430.6	4352.3	4261.0
7013.3	27.5°	6861.1	6752.4	6335.0	5408.9	4834.9	4534.9	4265.4	4069.7	3921.9	3826.2
7330.7	30°	7148.1	6991.5	6282.8	5178.4	4608.8	4195.8	3878.4	3626.2	3456.6	3378.4
7630.7	32.5°	7382.9	7178.5	6239.3	4969.7	4356.7	3852.3	3430.5	3174.0	3078.4	2978.4
8135.1	35°	7830.7	7426.3	6208.9	4852.3	4130.6	3508.8	3065.3	2843.6	2721.8	2574.0
8435.1	37.5°	8174.2	7856.8	6135.0	4608.8	3839.3	3174.0	2787.0	2587.0	2404.4	2247.9
9130.7	40°	8713.3	8456.8	6139.3	4265.4	3495.8	2887.1	2569.6	2360.9	2130.5	1995.7
10161.2	42.5°	9726.4	9048.1	6165.4	3991.4	3108.8	2652.3	2374.0	2126.2	1895.7	1782.7
11335.2	45°	10969.9	9861.2	6004.5	3743.6	2713.1	2430.5	2139.2	1891.4	1743.5	1660.9
12930.9	47.5°	12400.4	10656.9	5787.1	3278.4	2382.7	2195.7	1921.8	1778.3	1669.6	1621.8
14987.4	50°	14000.5	11796.0	5726.3	2852.3	2126.2	1995.7	1817.5	1708.8	1634.8	1578.3
17304.9	52.5°	16061.4	13122.2	5604.5	2413.1	1904.4	1834.8	1778.3	1704.4	1639.2	1591.4
19465.9	55°	18031.0	14591.8	5474.1	2052.2	1747.9	1756.6	1787.0	1721.8	1665.3	1591.4
21887.7	57.5°	20248.5	16091.8	4991.5	1787.0	1630.5	1717.4	1778.3	1704.4	1647.9	1591.4
24366.0	60°	21618.1	16935.3	4048.0	1556.6	1526.1	1643.5	1726.1	1647.9	1587.0	1608.7
25505.2	62.5°	22174.6	16491.8	3052.3	1413.1	1452.2	1543.5	1643.5	1613.1	1569.6	1652.2
25492.1	65°	21226.8	15470.1	2182.7	1291.3	1352.2	1443.5	1569.6	1604.4	1617.4	1778.3
23413.8	67.5°	18887.6	13470.0	1604.4	1191.3	1247.9	1382.7	1621.8	1678.3	1669.6	1869.6
19648.5	70°	15113.5	10535.1	1252.2	1108.7	1208.7	1430.5	1695.7	1695.7	1634.8	1869.6
14987.4	72.5°	10996.0	7426.3	1078.3	1013.1	1108.7	1313.1	1687.0	1682.7	1604.4	1708.8
9543.8	75°	6656.7	4321.9	952.2	917.4	952.2	1126.1	1613.1	1587.0	1478.3	1469.6
4591.5	77.5°	3317.5	2174.0	778.3	813.1	830.5	943.5	1417.4	1456.6	1308.7	1274.0
1813.1	80°	1400.0	947.9	647.8	700.0	700.0	795.7	1178.3	1204.4	1087.0	1021.8
717.4	82.5°	639.2	543.5	552.2	608.7	569.6	617.4	934.8	965.2	882.6	773.9
304.4	85°	269.6	308.7	421.8	478.3	421.8	400.0	643.5	678.3	573.9	478.3
130.4	87.5°	121.7	169.6	265.2	347.8	213.1	187.0	343.5	356.5	287.0	213.1
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>
4987.1
4982.8
5165.4
5348.0
5339.3
5200.2
5108.9
5013.2
4813.2
4556.7
4278.4
3869.7
3421.9
2974.0
2561.0
2252.2
2008.8
1791.4
1678.3
1613.1
1587.0
1587.0
1587.0
1587.0
1591.4
1630.5
1778.3
1882.7
1830.5
1647.9
1452.2
1252.2
1000.0
756.5
482.6
200.0
0.0

F REPORT)