

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: P477400

Luminaire Tested: **IFLD-M-SA4E-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477400
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

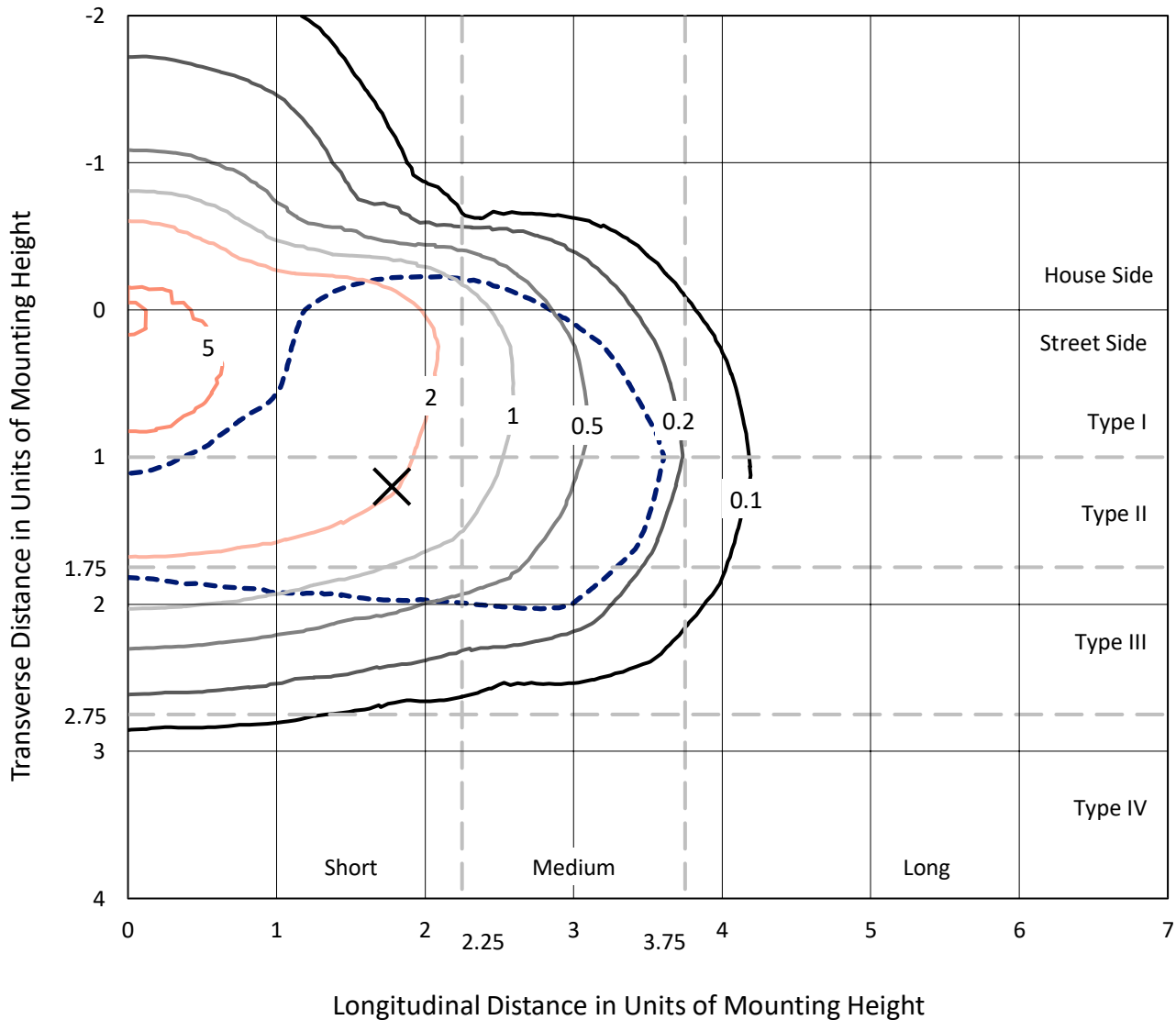
Lumens per Lamp: N/A
Luminaire Lumens: 36875.1 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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: P477400
 CATALOG NUMBER: IFLD-M-SA4E-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

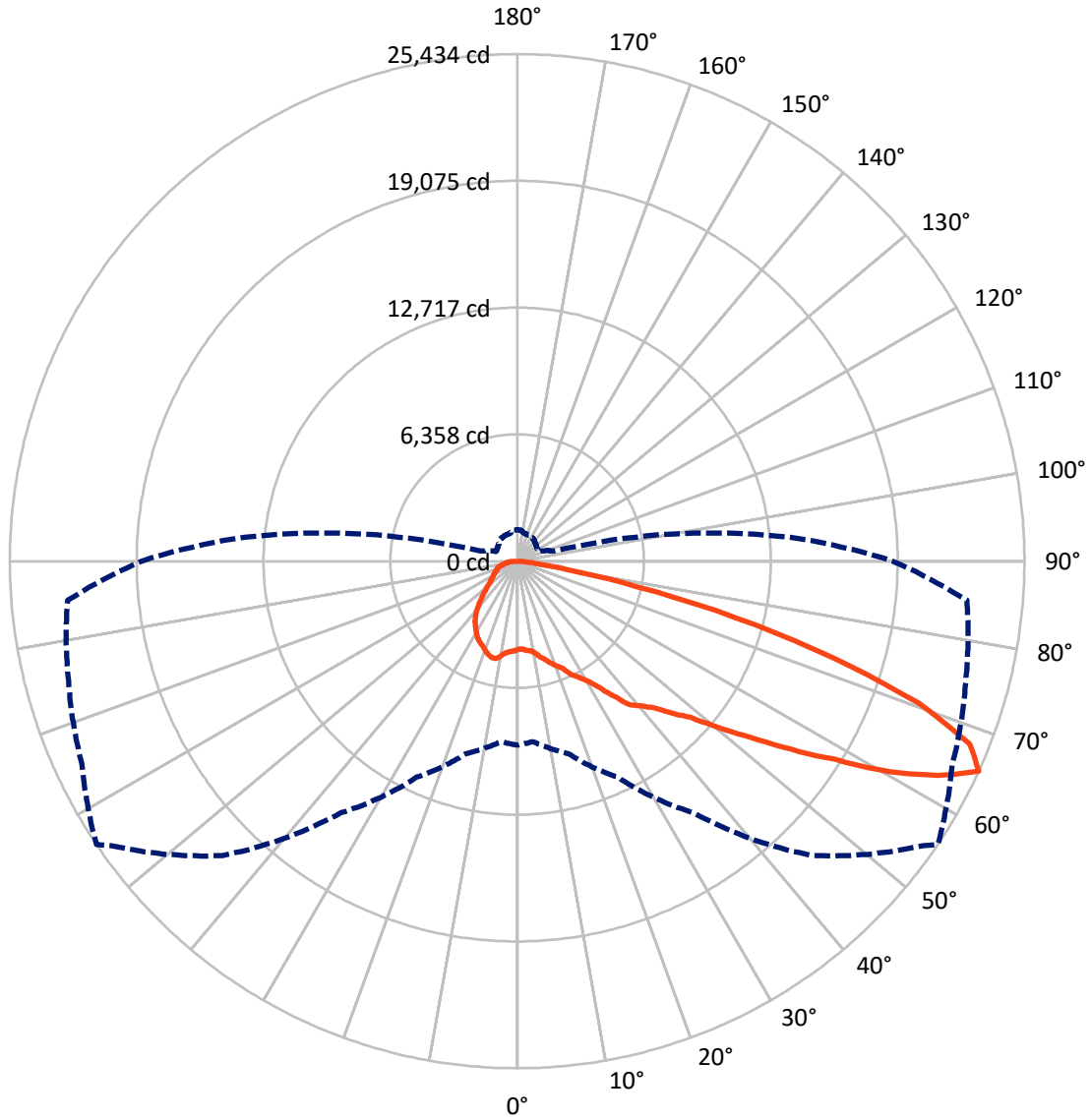
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

REPORT NUMBER: P477400
CATALOG NUMBER: IFLD-M-SA4E-740-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477400
 CATALOG NUMBER: IFLD-M-SA4E-740-U-T3

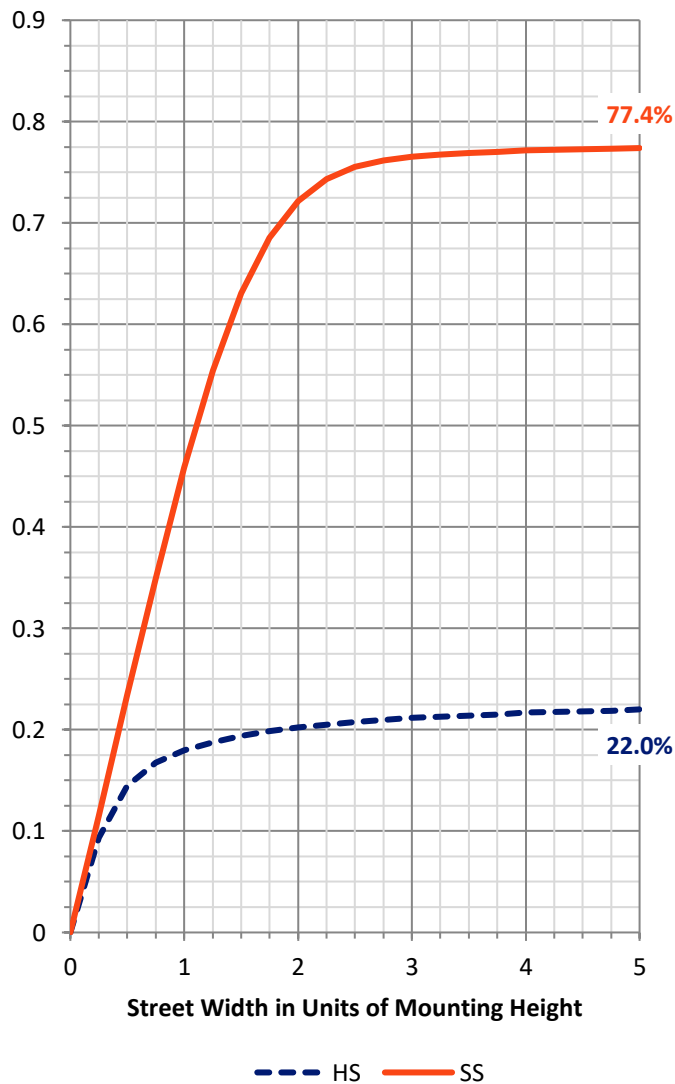
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8269.9	0.0	8269.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	28605.2	0.0	28605.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	36875.1	0.0	36875.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	1.2
10°-20°	1424.2	3.9
20°-30°	2535.9	6.9
30°-40°	3797.4	10.3
40°-50°	5626.4	15.3
50°-60°	8669.5	23.5
60°-70°	9814.9	26.6
70°-80°	4073.3	11.0
80°-90°	494.9	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°	36875.1	100.0
0°-180°	36875.1	100.0

Coefficient of Utilization

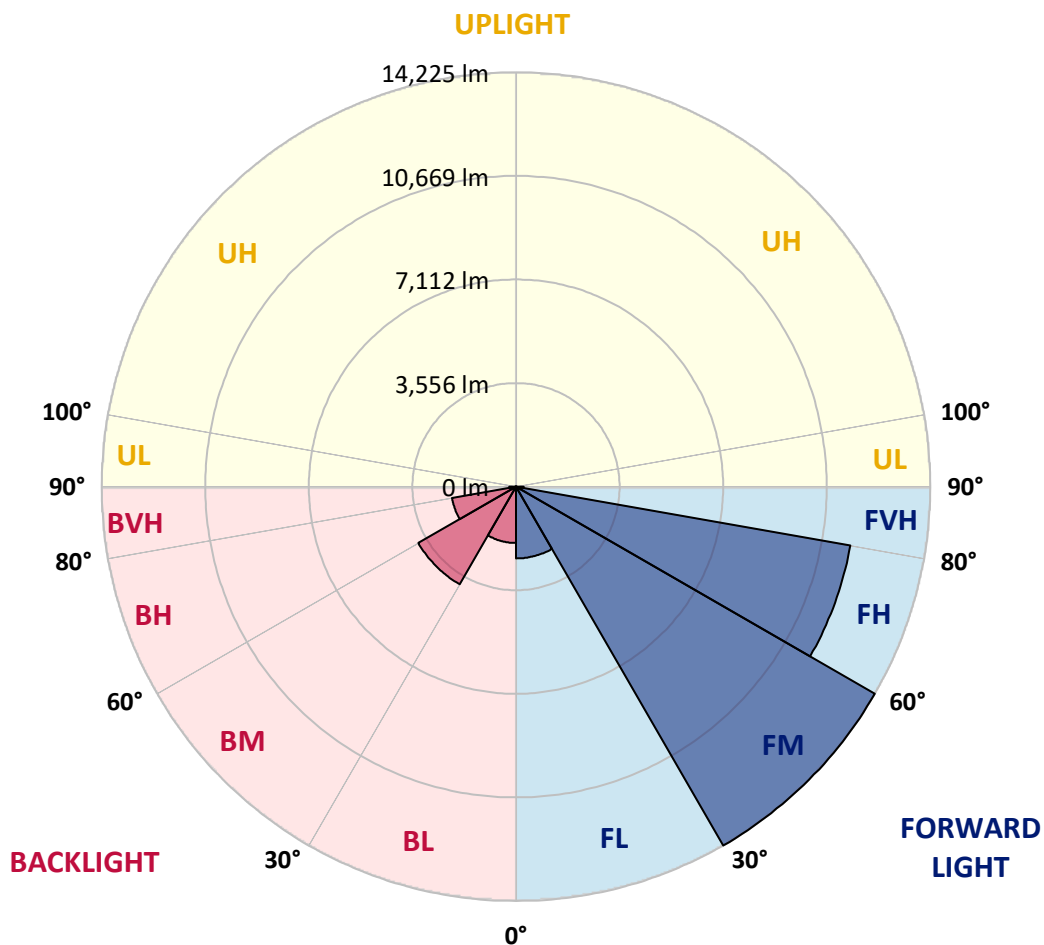


REPORT NUMBER: P477400
 CATALOG NUMBER: IFLD-M-SA4E-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2464.3	6.7			
FM (30°-60°)	14224.8	38.6			
FH (60°-80°)	11655.1	31.6			G4/12000
FVH (80°-90°)	261.0	0.7			G3/500
BL (0°-30°)	1934.4	5.2	B3/2500		
BM (30°-60°)	3868.5	10.5	B3/5000		
BH (60°-80°)	2233.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	233.8	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: P477400
 CATALOG NUMBER: IFLD-M-SA4E-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1
2.5°	4310.3	4333.5	4318.0	4364.3	4402.9	4402.9	4433.8	4410.6	4441.5	4483.9
5°	4453.1	4360.5	4410.6	4433.8	4422.2	4441.5	4410.6	4487.8	4437.6	4518.7
7.5°	4487.8	4522.5	4565.0	4526.4	4561.1	4541.8	4545.7	4534.1	4507.1	4572.7
10°	4742.5	4692.3	4788.8	4730.9	4723.2	4715.5	4700.0	4642.2	4707.8	4711.6
12.5°	5035.8	4989.5	4985.6	4939.3	5001.0	4889.1	4912.3	4881.4	4893.0	4908.4
15°	5248.0	5228.7	5317.5	5263.4	5182.4	5132.2	5186.3	5101.4	5143.8	5136.1
17.5°	5668.6	5664.7	5599.1	5510.4	5464.1	5390.8	5379.2	5344.5	5375.3	5359.9
20°	5961.9	6004.3	6015.9	5911.7	5734.2	5653.2	5633.9	5606.9	5641.6	5630.0
22.5°	6409.5	6343.9	6394.1	6212.7	6147.1	5954.2	5884.7	5846.1	6012.0	5969.6
25°	6695.1	6764.5	6714.3	6652.6	6506.0	6266.7	6216.6	6301.5	6367.1	6320.7
27.5°	7339.5	7270.0	7223.7	7038.5	6942.0	6691.2	6633.3	6602.4	6617.9	6644.9
30°	7829.5	7868.1	7763.9	7632.7	7389.6	7135.0	6999.9	6972.9	6918.9	6872.6
32.5°	8528.0	8470.1	8408.4	8323.5	8115.1	7779.4	7648.2	7547.9	7385.8	7169.7
35°	8863.7	9029.6	8983.3	8755.7	8597.4	8470.1	8431.5	8277.2	8142.1	7802.5
37.5°	9423.2	9492.7	9427.1	9353.8	9280.5	9145.4	9099.1	9141.5	8875.3	8315.8
40°	9786.0	9932.6	10067.7	9863.1	9847.7	9874.7	9589.2	9539.0	8991.0	8697.8
42.5°	10526.9	10588.6	10615.6	10607.9	10696.6	10696.6	10152.6	10044.5	9654.8	9415.5
45°	11507.0	11557.2	11653.6	11723.1	11622.8	11672.9	10897.3	10854.9	10507.6	10461.3
47.5°	12355.9	12475.6	12691.7	12896.2	13027.4	12857.6	12008.6	11707.7	11618.9	11896.7
50°	13096.8	12954.1	13459.6	13667.9	14242.9	14524.6	13235.8	13116.1	12973.4	13505.9
52.5°	13170.2	13363.1	14077.0	14493.7	15678.4	16199.3	14740.7	14690.5	14516.9	15130.4
55°	13694.9	13671.8	14389.5	15292.5	16701.0	17576.9	16701.0	16670.1	16291.9	16874.6
57.5°	13606.2	13841.6	14408.8	15670.7	17623.2	19054.9	18973.8	18761.6	18232.9	18707.6
60°	13305.2	13367.0	14057.7	15659.1	18159.6	20571.4	21428.0	21470.5	20390.0	20768.2
62.5°	11599.6	11742.4	12618.3	14428.1	17777.6	21617.1	23824.4	23673.9	22809.5	22377.3
65°	9226.4	9083.7	9994.3	11950.8	15400.5	20876.2	24873.9	25433.5	24075.2	23284.1
67.5°	5657.0	5622.3	6498.3	8223.1	11522.4	17766.0	24036.6	24472.6	23724.0	23091.2
70°	2913.4	2824.7	3372.6	4588.1	7243.0	13035.1	20918.7	21347.0	22060.9	20710.3
72.5°	1358.3	1339.0	1632.3	2257.4	3689.0	7663.6	16199.3	16508.0	18013.0	17461.2
75°	798.8	810.4	976.3	1180.8	1798.2	3611.9	10750.7	11348.8	12981.1	12583.6
77.5°	598.1	598.1	694.6	821.9	1049.6	1396.9	5305.9	6096.9	7590.3	6826.3
80°	439.9	447.6	532.5	617.4	729.3	721.6	2106.9	2469.6	3480.7	2975.1
82.5°	343.4	355.0	412.9	459.2	513.2	436.0	864.4	930.0	1431.6	1138.4
85°	239.2	247.0	324.1	312.6	312.6	243.1	358.9	378.2	567.2	540.2
87.5°	57.9	65.6	158.2	173.6	131.2	73.3	111.9	127.3	204.5	235.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477400
 CATALOG NUMBER: IFLD-M-SA4E-740-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4426.1	0°	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1	4426.1
4503.2	2.5°	4445.4	4460.8	4526.4	4491.7	4511.0	4429.9	4495.5	4441.5	4487.8	4464.7
4538.0	5°	4568.8	4534.1	4572.7	4545.7	4545.7	4576.6	4622.9	4588.1	4657.6	4626.7
4565.0	7.5°	4619.0	4622.9	4646.0	4649.9	4630.6	4727.1	4730.9	4719.3	4784.9	4769.5
4750.2	10°	4742.5	4746.3	4788.8	4811.9	4792.7	4827.4	4788.8	4757.9	4754.1	4738.6
4896.8	12.5°	4939.3	4977.9	4970.2	4989.5	4993.3	4846.7	4757.9	4607.4	4588.1	4607.4
5112.9	15°	5120.7	5105.2	5112.9	5151.5	4989.5	4754.1	4595.9	4468.5	4476.2	4480.1
5394.6	17.5°	5336.7	5348.3	5359.9	5182.4	4885.3	4607.4	4468.5	4468.5	4429.9	4445.4
5591.4	20°	5583.7	5537.4	5437.1	5186.3	4703.9	4437.6	4395.2	4395.2	4348.9	4318.0
5803.7	22.5°	5776.7	5684.0	5533.5	5066.6	4541.8	4372.0	4267.9	4194.5	4140.5	4078.8
6039.1	25°	5900.1	5850.0	5556.7	4943.1	4422.2	4198.4	4044.0	3932.1	3862.7	3781.6
6224.3	27.5°	6089.2	5992.7	5622.3	4800.4	4291.0	4024.7	3785.5	3611.9	3480.7	3395.8
6506.0	30°	6343.9	6205.0	5576.0	4595.9	4090.3	3723.8	3442.1	3218.3	3067.8	2998.3
6772.2	32.5°	6552.3	6370.9	5537.4	4410.6	3866.5	3418.9	3044.6	2816.9	2732.0	2643.3
7219.9	35°	6949.7	6590.9	5510.4	4306.4	3665.9	3114.1	2720.5	2523.7	2415.6	2284.4
7486.1	37.5°	7254.6	6972.9	5444.8	4090.3	3407.3	2816.9	2473.5	2296.0	2133.9	1995.0
8103.5	40°	7733.1	7505.4	5448.7	3785.5	3102.5	2562.3	2280.6	2095.3	1890.8	1771.2
9018.1	42.5°	8632.2	8030.2	5471.8	3542.4	2759.1	2353.9	2106.9	1887.0	1682.4	1582.1
10059.9	45°	9735.8	8751.8	5329.0	3322.4	2407.9	2157.1	1898.5	1678.6	1547.4	1474.1
11476.1	47.5°	11005.4	9458.0	5136.1	2909.5	2114.6	1948.7	1705.6	1578.3	1481.8	1439.3
13301.4	50°	12425.4	10469.0	5082.1	2531.4	1887.0	1771.2	1613.0	1516.5	1450.9	1400.8
15358.1	52.5°	14254.5	11645.9	4974.0	2141.6	1690.2	1628.4	1578.3	1512.7	1454.8	1412.3
17275.9	55°	16002.5	12950.2	4858.3	1821.4	1551.2	1559.0	1586.0	1528.1	1477.9	1412.3
19425.3	57.5°	17970.5	14281.5	4429.9	1586.0	1447.1	1524.2	1578.3	1512.7	1462.5	1412.3
21624.8	60°	19186.0	15030.1	3592.6	1381.5	1354.4	1458.6	1532.0	1462.5	1408.5	1427.8
22635.8	62.5°	19680.0	14636.5	2708.9	1254.1	1288.8	1369.9	1458.6	1431.6	1393.0	1466.4
22624.3	65°	18838.8	13729.7	1937.1	1146.1	1200.1	1281.1	1393.0	1423.9	1435.5	1578.3
20779.7	67.5°	16762.7	11954.6	1423.9	1057.3	1107.5	1227.1	1439.3	1489.5	1481.8	1659.3
17438.0	70°	13413.3	9349.9	1111.3	984.0	1072.8	1269.6	1504.9	1504.9	1450.9	1659.3
13301.4	72.5°	9759.0	6590.9	957.0	899.1	984.0	1165.4	1497.2	1493.4	1423.9	1516.5
8470.1	75°	5907.9	3835.7	845.1	814.2	845.1	999.4	1431.6	1408.5	1312.0	1304.3
4074.9	77.5°	2944.3	1929.4	690.7	721.6	737.0	837.4	1258.0	1292.7	1161.5	1130.6
1609.1	80°	1242.5	841.2	575.0	621.3	621.3	706.2	1045.7	1068.9	964.7	906.8
636.7	82.5°	567.2	482.4	490.1	540.2	505.5	548.0	829.6	856.7	783.3	686.9
270.1	85°	239.2	274.0	374.3	424.5	374.3	355.0	571.1	602.0	509.4	424.5
115.8	87.5°	108.0	150.5	235.4	308.7	189.1	165.9	304.8	316.4	254.7	189.1
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°
4426.1
4422.2
4584.3
4746.3
4738.6
4615.1
4534.1
4449.2
4271.7
4044.0
3797.1
3434.3
3036.9
2639.4
2272.8
1998.9
1782.8
1589.8
1489.5
1431.6
1408.5
1408.5
1408.5
1408.5
1412.3
1447.1
1578.3
1670.9
1624.6
1462.5
1288.8
1111.3
887.5
671.4
428.3
177.5
0.0

F REPORT)