

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: P477430

Luminaire Tested: **IFLD-S-SA6A-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477430
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

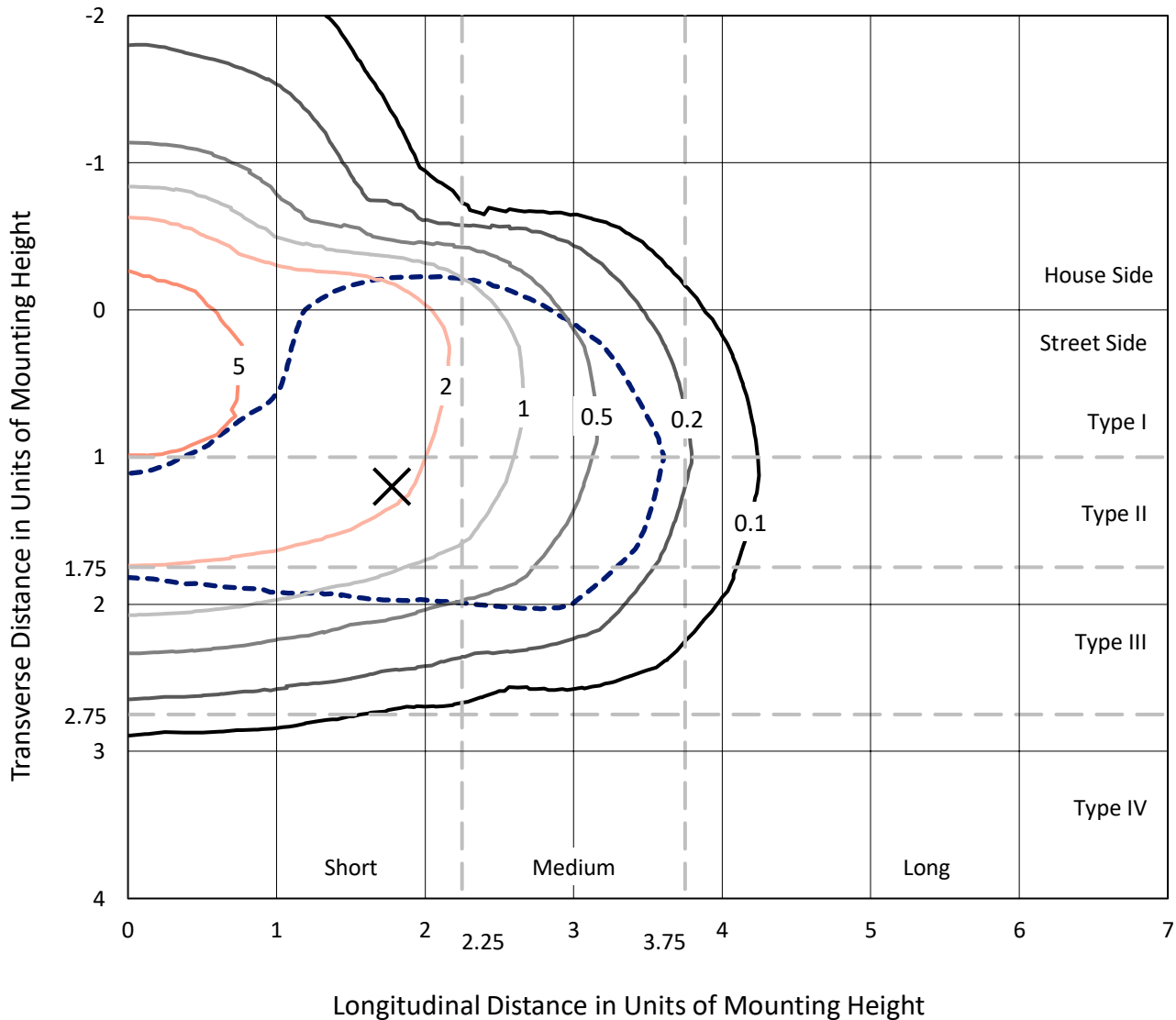
Lumens per Lamp: N/A
Luminaire Lumens: 28119.3 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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: P477430
 CATALOG NUMBER: IFLD-S-SA6A-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

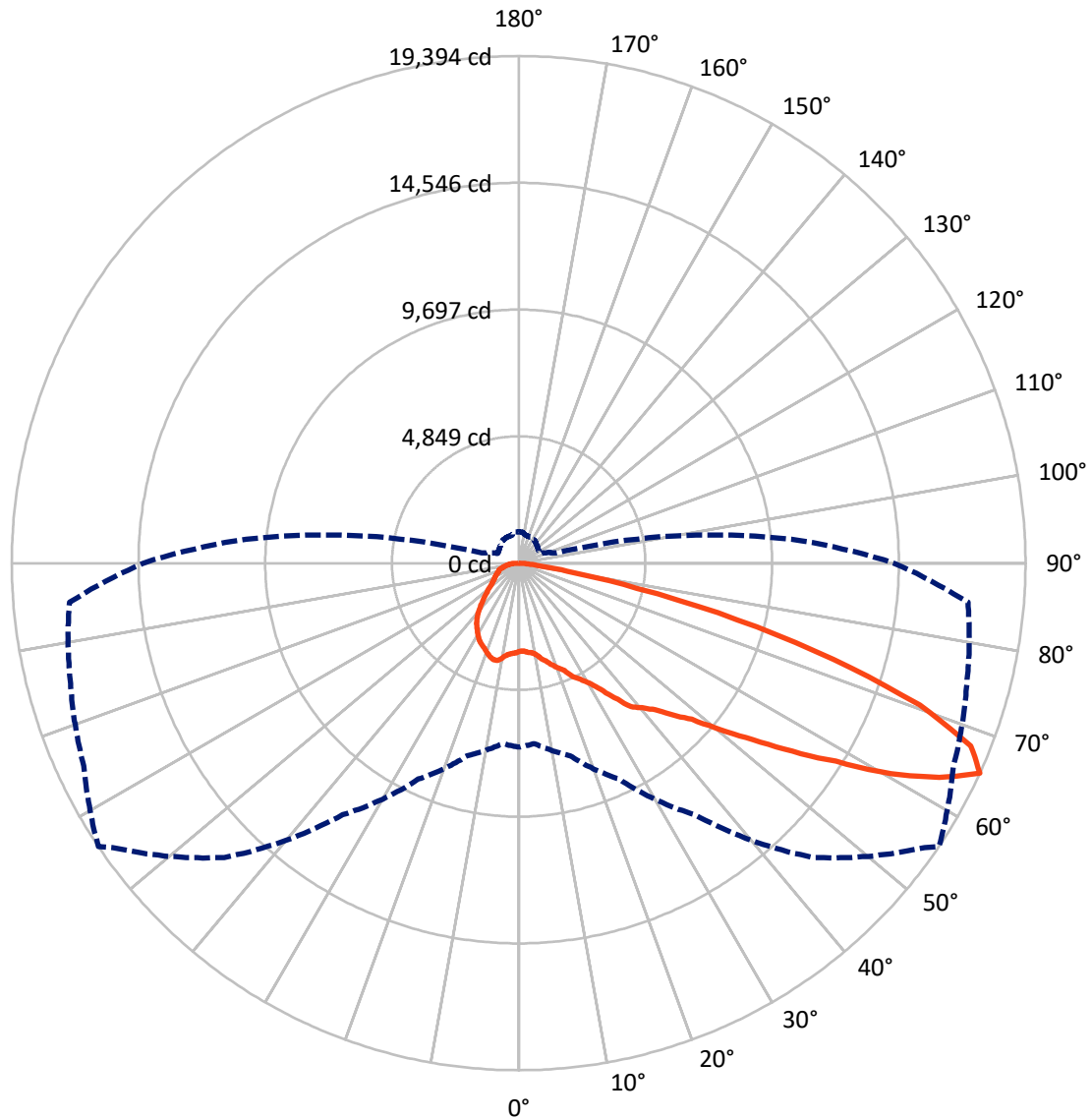
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P477430
CATALOG NUMBER: IFLD-S-SA6A-750-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477430
 CATALOG NUMBER: IFLD-S-SA6A-750-U-T3

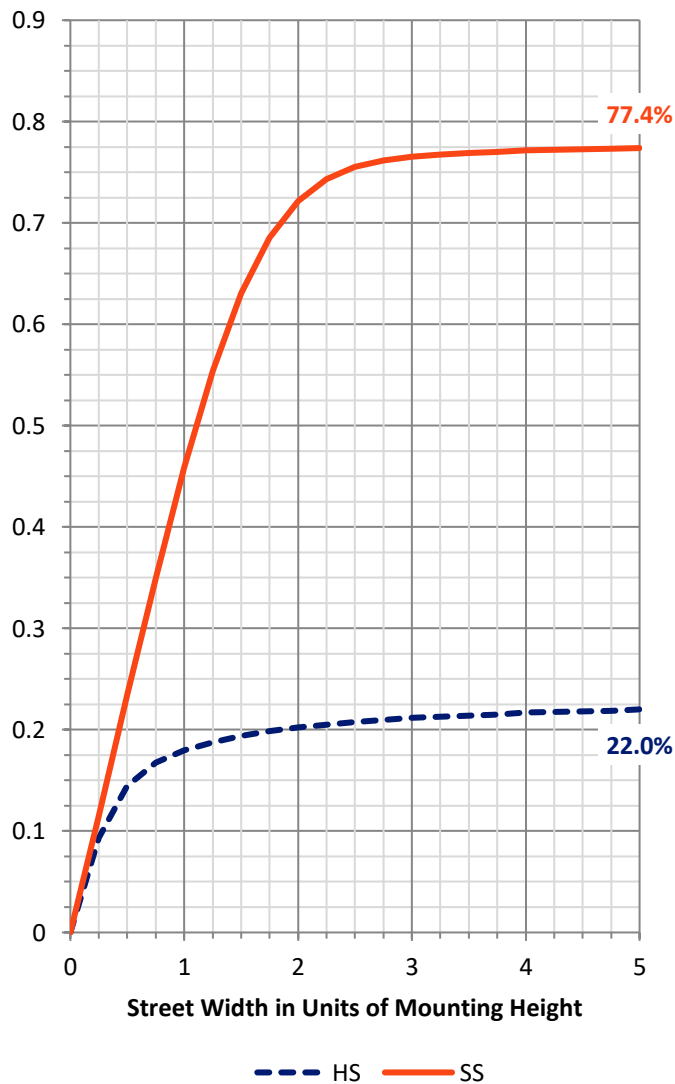
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6306.3	0.0	6306.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	21813.1	0.0	21813.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	28119.3	0.0	28119.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.5	1.2
10°-20°	1086.0	3.9
20°-30°	1933.8	6.9
30°-40°	2895.8	10.3
40°-50°	4290.4	15.3
50°-60°	6611.0	23.5
60°-70°	7484.4	26.6
70°-80°	3106.1	11.0
80°-90°	377.4	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°	28119.3	100.0
0°-180°	28119.3	100.0

Coefficient of Utilization

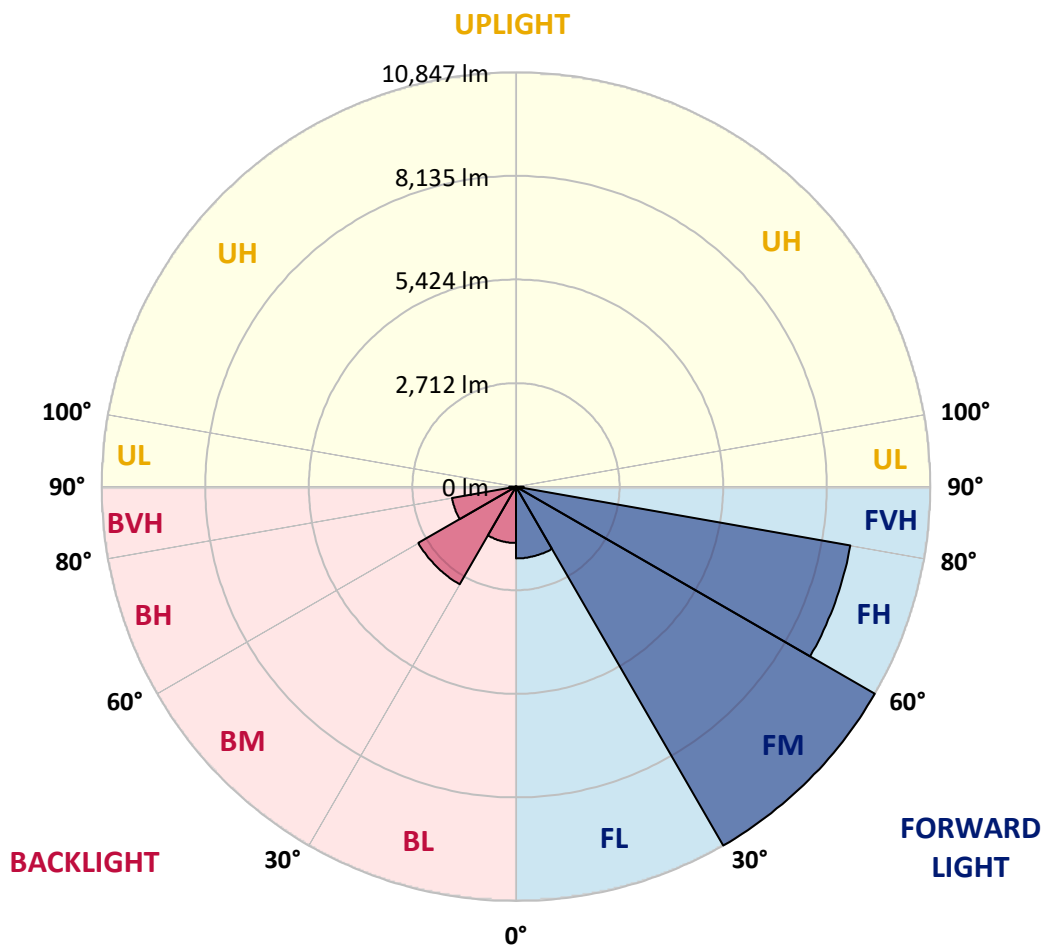


REPORT NUMBER: P477430
 CATALOG NUMBER: IFLD-S-SA6A-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1879.2	6.7			
FM (30°-60°)	10847.2	38.6			
FH (60°-80°)	8887.6	31.6			G4/12000
FVH (80°-90°)	199.0	0.7			G2/225
BL (0°-30°)	1475.1	5.2	B3/2500		
BM (30°-60°)	2950.0	10.5	B3/5000		
BH (60°-80°)	1702.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	178.3	0.6			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: P477430
 CATALOG NUMBER: IFLD-S-SA6A-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1
2.5°	3286.8	3304.5	3292.7	3328.0	3357.5	3357.5	3381.0	3363.4	3386.9	3419.3
5°	3395.7	3325.1	3363.4	3381.0	3372.2	3386.9	3363.4	3422.2	3383.9	3445.7
7.5°	3422.2	3448.7	3481.1	3451.6	3478.1	3463.4	3466.3	3457.5	3436.9	3486.9
10°	3616.4	3578.2	3651.7	3607.6	3601.7	3595.8	3584.0	3539.9	3589.9	3592.9
12.5°	3840.0	3804.7	3801.8	3766.5	3813.6	3728.2	3745.9	3722.3	3731.2	3742.9
15°	4001.9	3987.2	4054.9	4013.7	3951.9	3913.6	3954.8	3890.1	3922.4	3916.6
17.5°	4322.6	4319.7	4269.7	4202.0	4166.7	4110.8	4101.9	4075.5	4099.0	4087.2
20°	4546.3	4578.6	4587.5	4508.0	4372.7	4310.9	4296.1	4275.5	4302.0	4293.2
22.5°	4887.6	4837.6	4875.8	4737.5	4687.5	4540.4	4487.4	4458.0	4584.5	4552.1
25°	5105.3	5158.3	5120.1	5073.0	4961.2	4778.7	4740.5	4805.2	4855.2	4819.9
27.5°	5596.8	5543.8	5508.5	5367.2	5293.7	5102.4	5058.3	5034.7	5046.5	5067.1
30°	5970.5	5999.9	5920.4	5820.4	5635.0	5440.8	5337.8	5317.2	5276.0	5240.7
32.5°	6503.1	6458.9	6411.8	6347.1	6188.2	5932.2	5832.2	5755.7	5632.1	5467.3
35°	6759.1	6885.6	6850.3	6676.7	6556.0	6458.9	6429.5	6311.8	6208.8	5949.9
37.5°	7185.7	7238.7	7188.7	7132.8	7076.9	6973.9	6938.6	6970.9	6767.9	6341.2
40°	7462.3	7574.2	7677.1	7521.2	7509.4	7530.0	7312.3	7274.0	6856.2	6632.5
42.5°	8027.3	8074.4	8095.0	8089.1	8156.8	8156.8	7741.9	7659.5	7362.3	7179.9
45°	8774.7	8813.0	8886.5	8939.5	8863.0	8901.3	8309.8	8277.4	8012.6	7977.3
47.5°	9422.1	9513.3	9678.1	9834.0	9934.1	9804.6	9157.3	8927.7	8860.1	9071.9
50°	9987.1	9878.2	10263.7	10422.6	10861.0	11075.8	10093.0	10001.8	9892.9	10299.0
52.5°	10043.0	10190.1	10734.5	11052.3	11955.6	12352.9	11240.6	11202.3	11069.9	11537.8
55°	10443.2	10425.5	10972.8	11661.4	12735.4	13403.4	12735.4	12711.9	12423.5	12867.8
57.5°	10375.5	10555.0	10987.5	11949.8	13438.7	14530.4	14468.6	14306.7	13903.6	14265.6
60°	10146.0	10193.0	10719.8	11940.9	13847.7	15686.8	16340.1	16372.4	15548.5	15836.9
62.5°	8845.3	8954.2	9622.2	11002.2	13556.4	16484.2	18167.4	18052.6	17393.5	17063.9
65°	7035.7	6926.8	7621.2	9113.1	11743.8	15919.3	18967.8	19394.4	18358.7	17755.4
67.5°	4313.8	4287.3	4955.3	6270.6	8786.5	13547.6	18329.2	18661.7	18090.9	17608.3
70°	2221.6	2154.0	2571.8	3498.7	5523.2	9940.0	15951.6	16278.3	16822.6	15792.7
72.5°	1035.8	1021.1	1244.7	1721.4	2813.1	5843.9	12352.9	12588.3	13735.9	13315.1
75°	609.1	617.9	744.5	900.4	1371.2	2754.2	8198.0	8654.1	9898.8	9595.7
77.5°	456.1	456.1	529.7	626.8	800.4	1065.2	4046.0	4649.3	5788.0	5205.4
80°	335.5	341.3	406.1	470.8	556.1	550.3	1606.6	1883.2	2654.2	2268.7
82.5°	261.9	270.7	314.9	350.2	391.4	332.5	659.1	709.2	1091.7	868.1
85°	182.4	188.3	247.2	238.3	238.3	185.4	273.7	288.4	432.6	412.0
87.5°	44.1	50.0	120.6	132.4	100.0	55.9	85.3	97.1	156.0	179.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477430
 CATALOG NUMBER: IFLD-S-SA6A-750-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3375.1	0°	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1	3375.1
3434.0	2.5°	3389.8	3401.6	3451.6	3425.1	3439.9	3378.1	3428.1	3386.9	3422.2	3404.5
3460.5	5°	3484.0	3457.5	3486.9	3466.3	3466.3	3489.9	3525.2	3498.7	3551.7	3528.1
3481.1	7.5°	3522.2	3525.2	3542.8	3545.8	3531.1	3604.6	3607.6	3598.8	3648.8	3637.0
3622.3	10°	3616.4	3619.4	3651.7	3669.4	3654.7	3681.1	3651.7	3628.2	3625.2	3613.5
3734.1	12.5°	3766.5	3795.9	3790.0	3804.7	3807.7	3695.9	3628.2	3513.4	3498.7	3513.4
3898.9	15°	3904.8	3893.0	3898.9	3928.3	3804.7	3625.2	3504.6	3407.5	3413.4	3416.3
4113.7	17.5°	4069.6	4078.4	4087.2	3951.9	3725.3	3513.4	3407.5	3407.5	3378.1	3389.8
4263.8	20°	4257.9	4222.6	4146.1	3954.8	3587.0	3383.9	3351.6	3351.6	3316.3	3292.7
4425.6	22.5°	4405.0	4334.4	4219.6	3863.6	3463.4	3333.9	3254.5	3198.6	3157.4	3110.3
4605.1	25°	4499.2	4460.9	4237.3	3769.4	3372.2	3201.5	3083.8	2998.5	2945.5	2883.7
4746.4	27.5°	4643.4	4569.8	4287.3	3660.5	3272.1	3069.1	2886.7	2754.2	2654.2	2589.5
4961.2	30°	4837.6	4731.6	4252.0	3504.6	3119.1	2839.6	2624.8	2454.1	2339.3	2286.4
5164.2	32.5°	4996.5	4858.2	4222.6	3363.4	2948.4	2607.1	2321.7	2148.1	2083.3	2015.7
5505.5	35°	5299.6	5025.9	4202.0	3283.9	2795.4	2374.6	2074.5	1924.4	1842.0	1742.0
5708.6	37.5°	5532.0	5317.2	4152.0	3119.1	2598.3	2148.1	1886.2	1750.8	1627.2	1521.3
6179.4	40°	5896.9	5723.3	4154.9	2886.7	2365.8	1953.9	1739.1	1597.8	1441.9	1350.6
6876.8	42.5°	6582.5	6123.5	4172.6	2701.3	2103.9	1795.0	1606.6	1438.9	1283.0	1206.5
7671.3	45°	7424.1	6673.7	4063.7	2533.5	1836.2	1644.9	1447.7	1280.0	1180.0	1124.1
8751.2	47.5°	8392.2	7212.2	3916.6	2218.7	1612.5	1486.0	1300.6	1203.5	1129.9	1097.6
10143.0	50°	9475.1	7983.2	3875.4	1930.3	1438.9	1350.6	1230.0	1156.4	1106.4	1068.2
11711.4	52.5°	10869.8	8880.7	3793.0	1633.1	1288.8	1241.8	1203.5	1153.5	1109.3	1077.0
13173.9	55°	12202.8	9875.2	3704.7	1388.9	1182.9	1188.8	1209.4	1165.3	1127.0	1077.0
14812.9	57.5°	13703.5	10890.4	3378.1	1209.4	1103.5	1162.3	1203.5	1153.5	1115.2	1077.0
16490.1	60°	14630.4	11461.3	2739.5	1053.4	1032.8	1112.3	1168.2	1115.2	1074.0	1088.7
17261.1	62.5°	15007.1	11161.1	2065.7	956.3	982.8	1044.6	1112.3	1091.7	1062.3	1118.2
17252.3	65°	14365.6	10469.6	1477.2	873.9	915.1	976.9	1062.3	1085.8	1094.6	1203.5
15845.7	67.5°	12782.5	9116.1	1085.8	806.3	844.5	935.7	1097.6	1135.8	1129.9	1265.3
13297.4	70°	10228.4	7129.8	847.5	750.4	818.0	968.1	1147.6	1147.6	1106.4	1265.3
10143.0	72.5°	7441.7	5025.9	729.8	685.6	750.4	888.7	1141.7	1138.8	1085.8	1156.4
6458.9	75°	4505.1	2924.9	644.4	620.9	644.4	762.1	1091.7	1074.0	1000.5	994.6
3107.3	77.5°	2245.2	1471.3	526.7	550.3	562.0	638.5	959.3	985.8	885.7	862.2
1227.0	80°	947.5	641.5	438.4	473.8	473.8	538.5	797.4	815.1	735.6	691.5
485.5	82.5°	432.6	367.8	373.7	412.0	385.5	417.8	632.7	653.2	597.3	523.8
206.0	85°	182.4	208.9	285.4	323.7	285.4	270.7	435.5	459.0	388.4	323.7
88.3	87.5°	82.4	114.8	179.5	235.4	144.2	126.5	232.5	241.3	194.2	144.2
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°
3375.1
3372.2
3495.8
3619.4
3613.5
3519.3
3457.5
3392.8
3257.4
3083.8
2895.5
2618.9
2315.8
2012.7
1733.2
1524.2
1359.5
1212.3
1135.8
1091.7
1074.0
1074.0
1074.0
1074.0
1077.0
1103.5
1203.5
1274.1
1238.8
1115.2
982.8
847.5
676.8
512.0
326.6
135.4
0.0

F REPORT)