

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: P477245

Luminaire Tested: **IFLD-L-SA7A-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477245
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

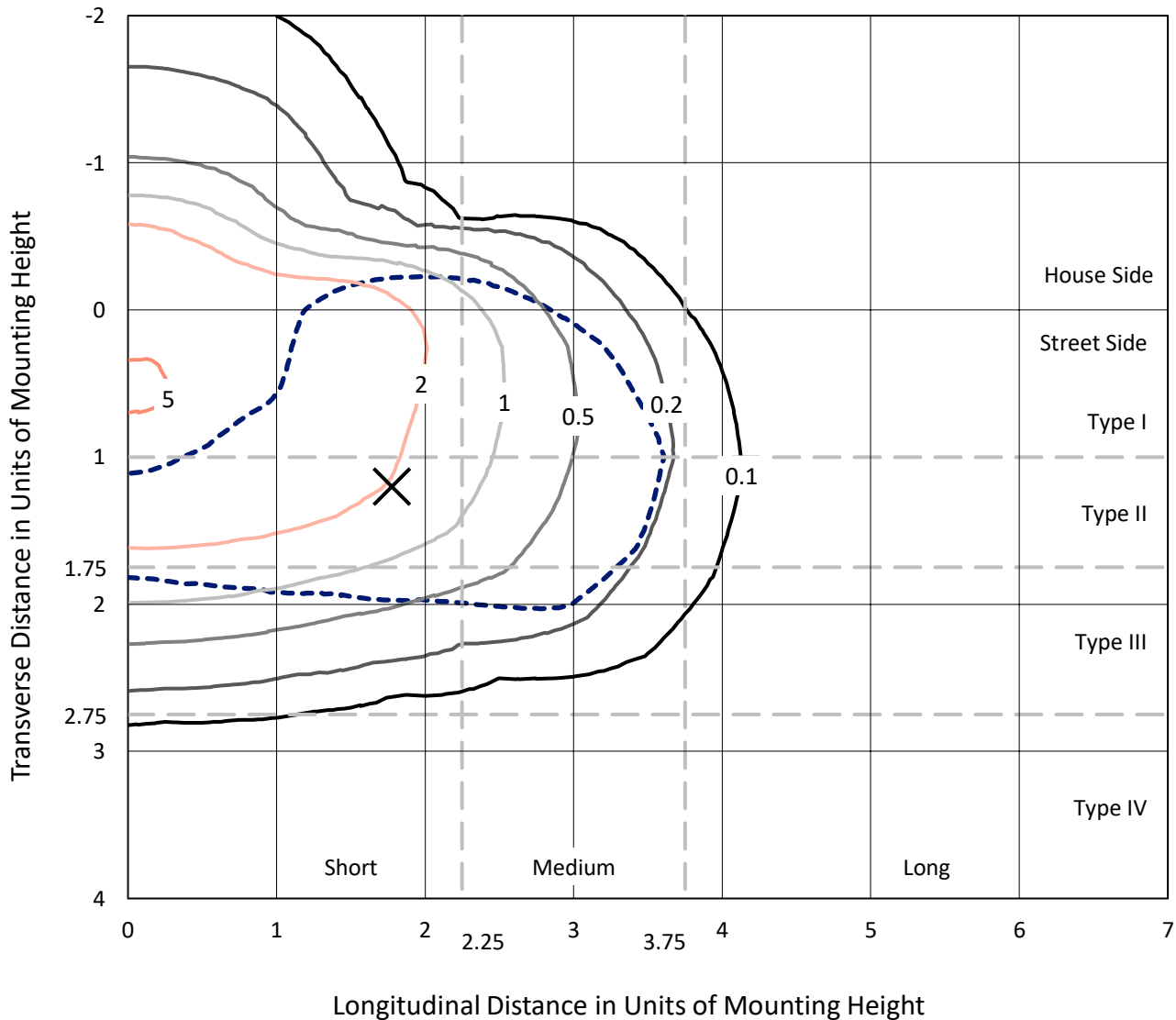
Lumens per Lamp: N/A
Luminaire Lumens: 23483 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 217.6
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: P477245
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

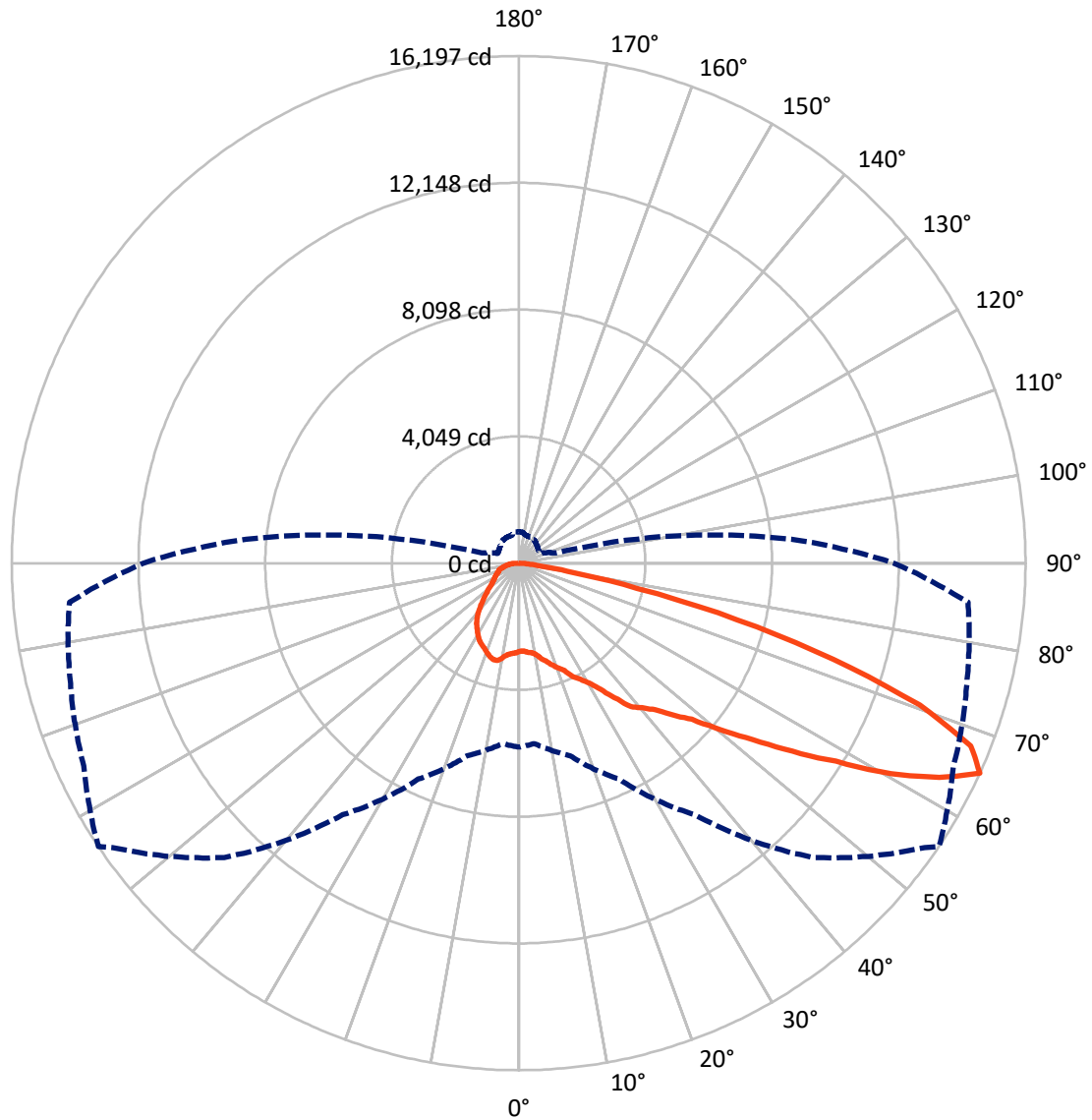
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

REPORT NUMBER: P477245
CATALOG NUMBER: IFLD-L-SA7A-722-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477245
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T3

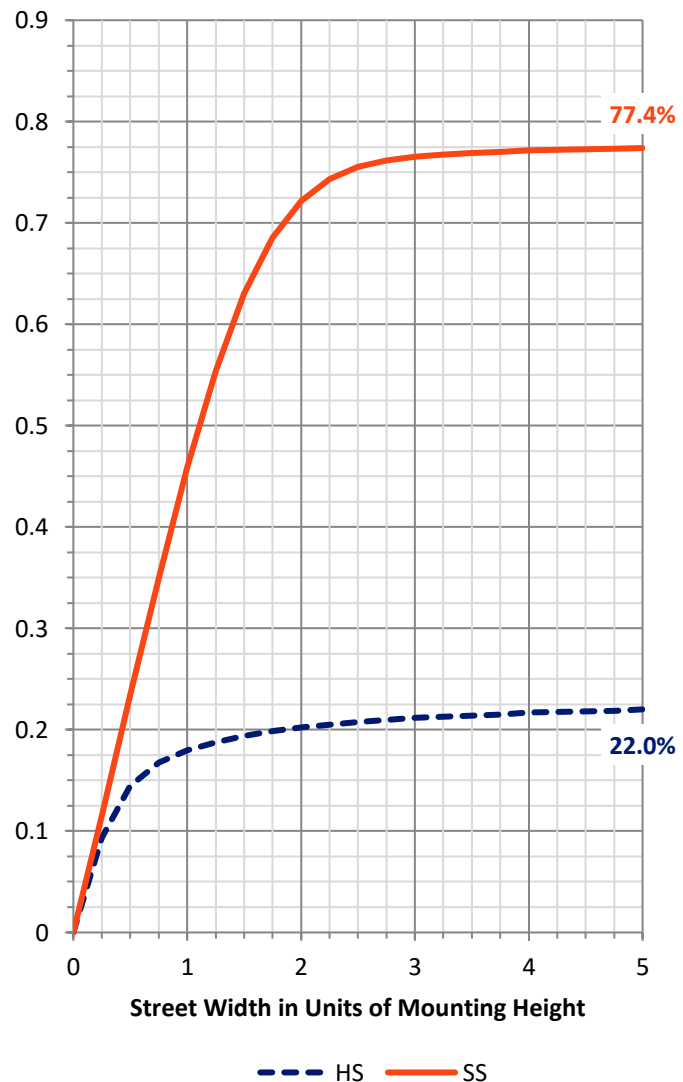
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5266.5	0.0	5266.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18216.5	0.0	18216.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	23483.0	0.0	23483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	1.2
10°-20°	907.0	3.9
20°-30°	1614.9	6.9
30°-40°	2418.3	10.3
40°-50°	3583.0	15.3
50°-60°	5520.9	23.5
60°-70°	6250.4	26.6
70°-80°	2594.0	11.0
80°-90°	315.1	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°	23483.0	100.0
0°-180°	23483.0	100.0

Coefficient of Utilization

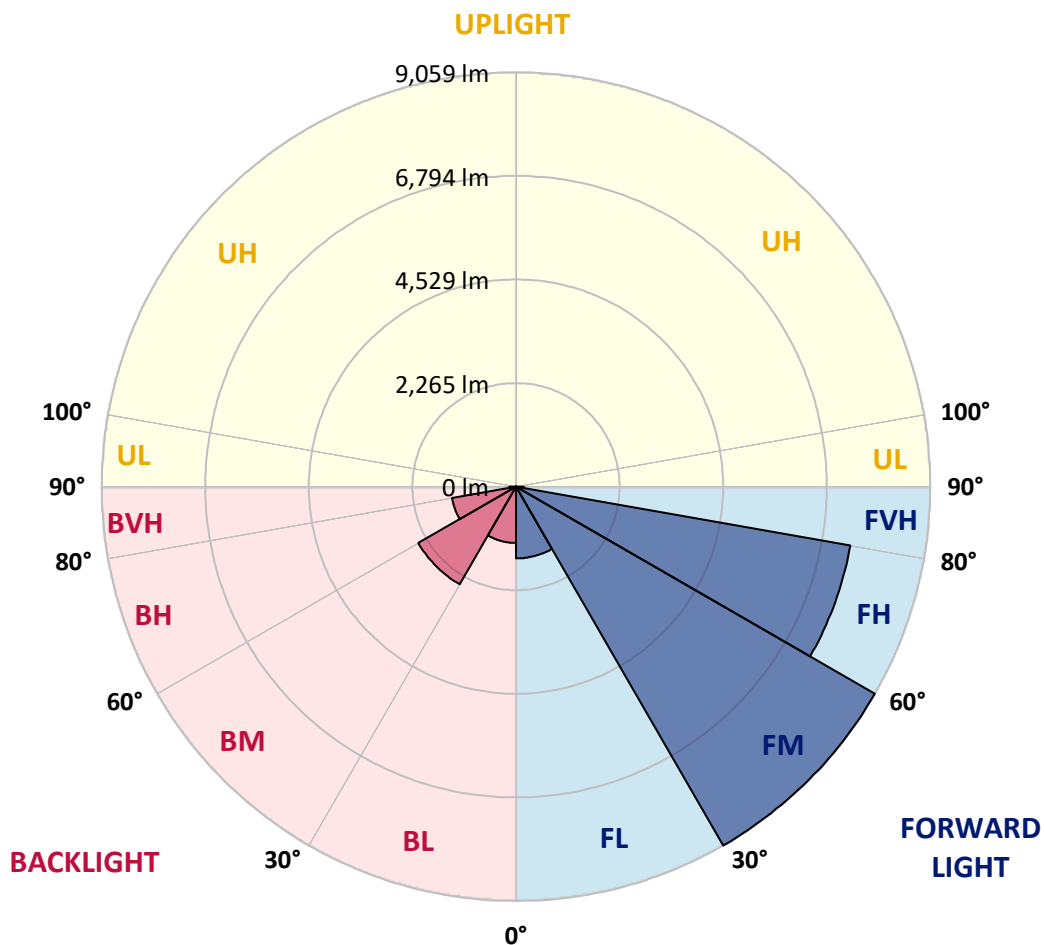


REPORT NUMBER: P477245
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.3	6.7			
FM (30°-60°)	9058.7	38.6			
FH (60°-80°)	7422.2	31.6			G3/7500
FVH (80°-90°)	166.2	0.7			G2/225
BL (0°-30°)	1231.9	5.2	B3/2500		
BM (30°-60°)	2463.6	10.5	B2/2500		
BH (60°-80°)	1422.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	148.9	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-G3
 Type III Short





REPORT NUMBER: P477245
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6
2.5°	2744.9	2759.6	2749.8	2779.3	2803.9	2803.9	2823.5	2808.8	2828.5	2855.5
5°	2835.8	2776.9	2808.8	2823.5	2816.2	2828.5	2808.8	2857.9	2826.0	2877.6
7.5°	2857.9	2880.1	2907.1	2882.5	2904.6	2892.3	2894.8	2887.4	2870.2	2912.0
10°	3020.1	2988.2	3049.6	3012.8	3007.8	3002.9	2993.1	2956.2	2998.0	3000.5
12.5°	3206.9	3177.4	3174.9	3145.5	3184.8	3113.5	3128.3	3108.6	3116.0	3125.8
15°	3342.1	3329.8	3386.3	3351.9	3300.3	3268.3	3302.7	3248.7	3275.7	3270.8
17.5°	3609.9	3607.4	3565.7	3509.2	3479.7	3433.0	3425.6	3403.5	3423.1	3413.3
20°	3796.7	3823.7	3831.1	3764.7	3651.7	3600.1	3587.8	3570.6	3592.7	3585.3
22.5°	4081.7	4039.9	4071.9	3956.4	3914.6	3791.8	3747.5	3722.9	3828.6	3801.6
25°	4263.6	4307.8	4275.9	4236.5	4143.2	3990.8	3958.9	4012.9	4054.7	4025.2
27.5°	4674.0	4629.7	4600.2	4482.3	4420.8	4261.1	4224.3	4204.6	4214.4	4231.6
30°	4986.0	5010.6	4944.3	4860.7	4705.9	4543.7	4457.7	4440.5	4406.1	4376.6
32.5°	5430.8	5394.0	5354.7	5300.6	5167.9	4954.1	4870.5	4806.7	4703.4	4565.8
35°	5644.6	5750.3	5720.8	5575.8	5475.1	5394.0	5369.4	5271.1	5185.1	4968.8
37.5°	6000.9	6045.2	6003.4	5956.7	5910.0	5824.0	5794.5	5821.6	5652.0	5295.7
40°	6231.9	6325.3	6411.3	6281.1	6271.3	6288.5	6106.6	6074.7	5725.7	5539.0
42.5°	6703.8	6743.1	6760.3	6755.4	6811.9	6811.9	6465.4	6396.6	6148.4	5996.0
45°	7327.9	7359.9	7421.3	7465.6	7401.7	7433.6	6939.7	6912.6	6691.5	6662.0
47.5°	7868.6	7944.7	8082.4	8212.6	8296.1	8188.0	7647.4	7455.7	7399.2	7576.1
50°	8340.4	8249.5	8571.4	8704.1	9070.2	9249.6	8428.8	8352.7	8261.7	8600.9
52.5°	8387.1	8509.9	8964.6	9230.0	9984.4	10316.1	9387.2	9355.3	9244.7	9635.4
55°	8721.3	8706.5	9163.6	9738.6	10635.6	11193.4	10635.6	10615.9	10375.1	10746.2
57.5°	8664.8	8814.7	9175.9	9979.5	11222.9	12134.6	12083.0	11947.8	11611.2	11913.4
60°	8473.1	8512.4	8952.3	9972.1	11564.5	13100.3	13645.9	13672.9	12984.8	13225.7
62.5°	7386.9	7477.8	8035.7	9188.2	11321.2	13766.3	15171.9	15076.1	14525.6	14250.4
65°	5875.6	5784.7	6364.6	7610.5	9807.4	13294.5	15840.3	16196.7	15331.7	14827.9
67.5°	3602.5	3580.4	4138.2	5236.7	7337.8	11313.8	15307.1	15584.8	15108.0	14705.0
70°	1855.3	1798.8	2147.8	2921.8	4612.5	8301.1	13321.5	13594.3	14048.9	13188.8
72.5°	865.0	852.7	1039.5	1437.6	2349.3	4880.4	10316.1	10512.7	11471.1	11119.7
75°	508.7	516.1	621.7	752.0	1145.1	2300.1	6846.3	7227.2	8266.7	8013.5
77.5°	380.9	380.9	442.3	523.4	668.4	889.6	3378.9	3882.7	4833.7	4347.1
80°	280.1	285.1	339.1	393.2	464.4	459.5	1341.7	1572.7	2216.6	1894.6
82.5°	218.7	226.1	262.9	292.4	326.8	277.7	550.5	592.2	911.7	724.9
85°	152.4	157.3	206.4	199.0	199.0	154.8	228.5	240.8	361.2	344.0
87.5°	36.9	41.8	100.8	110.6	83.6	46.7	71.3	81.1	130.2	149.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477245
 CATALOG NUMBER: IFLD-L-SA7A-722-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2818.6	0°	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6	2818.6
2867.8	2.5°	2830.9	2840.7	2882.5	2860.4	2872.7	2821.1	2862.9	2828.5	2857.9	2843.2
2889.9	5°	2909.5	2887.4	2912.0	2894.8	2894.8	2914.5	2944.0	2921.8	2966.1	2946.4
2907.1	7.5°	2941.5	2944.0	2958.7	2961.2	2948.9	3010.3	3012.8	3005.4	3047.2	3037.3
3025.0	10°	3020.1	3022.6	3049.6	3064.4	3052.1	3074.2	3049.6	3030.0	3027.5	3017.7
3118.4	12.5°	3145.5	3170.0	3165.1	3177.4	3179.9	3086.5	3030.0	2934.1	2921.8	2934.1
3256.0	15°	3261.0	3251.1	3256.0	3280.6	3177.4	3027.5	2926.8	2845.7	2850.6	2853.0
3435.4	17.5°	3398.6	3405.9	3413.3	3300.3	3111.1	2934.1	2845.7	2845.7	2821.1	2830.9
3560.8	20°	3555.8	3526.4	3462.5	3302.7	2995.6	2826.0	2799.0	2799.0	2769.5	2749.8
3695.9	22.5°	3678.7	3619.7	3523.9	3226.6	2892.3	2784.2	2717.9	2671.2	2636.8	2597.5
3845.8	25°	3757.3	3725.4	3538.6	3147.9	2816.2	2673.6	2575.3	2504.1	2459.8	2408.2
3963.8	27.5°	3877.8	3816.3	3580.4	3057.0	2732.6	2563.1	2410.7	2300.1	2216.6	2162.5
4143.2	30°	4039.9	3951.5	3550.9	2926.8	2604.8	2371.4	2192.0	2049.5	1953.6	1909.4
4312.7	32.5°	4172.6	4057.2	3526.4	2808.8	2462.3	2177.2	1938.9	1793.9	1739.8	1683.3
4597.8	35°	4425.8	4197.2	3509.2	2742.4	2334.5	1983.1	1732.5	1607.1	1538.3	1454.8
4767.3	37.5°	4619.9	4440.5	3467.4	2604.8	2169.9	1793.9	1575.2	1462.1	1358.9	1270.5
5160.5	40°	4924.6	4779.6	3469.8	2410.7	1975.7	1631.7	1452.3	1334.4	1204.1	1127.9
5742.9	42.5°	5497.2	5113.8	3484.6	2255.9	1757.0	1499.0	1341.7	1201.7	1071.4	1007.5
6406.4	45°	6200.0	5573.4	3393.7	2115.8	1533.4	1373.7	1209.0	1069.0	985.4	938.7
7308.3	47.5°	7008.5	6023.1	3270.8	1852.9	1346.6	1241.0	1086.2	1005.1	943.6	916.6
8470.6	50°	7912.8	6666.9	3236.4	1612.0	1201.7	1127.9	1027.2	965.8	924.0	892.0
9780.4	52.5°	9077.6	7416.4	3167.6	1363.9	1076.3	1037.0	1005.1	963.3	926.4	899.4
11001.7	55°	10190.8	8247.0	3093.9	1159.9	987.9	992.8	1010.0	973.1	941.2	899.4
12370.5	57.5°	11444.1	9094.8	2821.1	1010.0	921.5	970.7	1005.1	963.3	931.4	899.4
13771.2	60°	12218.1	9571.5	2287.8	879.7	862.5	928.9	975.6	931.4	896.9	909.2
14415.1	62.5°	12532.7	9320.9	1725.1	798.7	820.8	872.4	928.9	911.7	887.1	933.8
14407.7	65°	11997.0	8743.4	1233.6	729.8	764.2	815.9	887.1	906.8	914.1	1005.1
13233.0	67.5°	10674.9	7613.0	906.8	673.3	705.3	781.5	916.6	948.6	943.6	1056.7
11104.9	70°	8541.9	5954.3	707.7	626.6	683.2	808.5	958.4	958.4	924.0	1056.7
8470.6	72.5°	6214.7	4197.2	609.4	572.6	626.6	742.1	953.5	951.0	906.8	965.8
5394.0	75°	3762.3	2442.6	538.2	518.5	538.2	636.5	911.7	896.9	835.5	830.6
2595.0	77.5°	1875.0	1228.7	439.9	459.5	469.4	533.3	801.1	823.2	739.7	720.0
1024.7	80°	791.3	535.7	366.2	395.6	395.6	449.7	666.0	680.7	614.3	577.5
405.5	82.5°	361.2	307.2	312.1	344.0	321.9	348.9	528.3	545.5	498.9	437.4
172.0	85°	152.4	174.5	238.4	270.3	238.4	226.1	363.7	383.4	324.4	270.3
73.7	87.5°	68.8	95.8	149.9	196.6	120.4	105.7	194.1	201.5	162.2	120.4
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>
2818.6
2816.2
2919.4
3022.6
3017.7
2939.0
2887.4
2833.4
2720.3
2575.3
2418.1
2187.1
1934.0
1680.9
1447.4
1272.9
1135.3
1012.4
948.6
911.7
896.9
896.9
896.9
896.9
899.4
921.5
<i>1005.1</i>
1064.0
1034.6
931.4
820.8
707.7
565.2
427.6
272.8
113.0
0.0

F REPORT)