

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: P477651

Luminaire Tested: **IFLD-S-SA3C-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477651
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

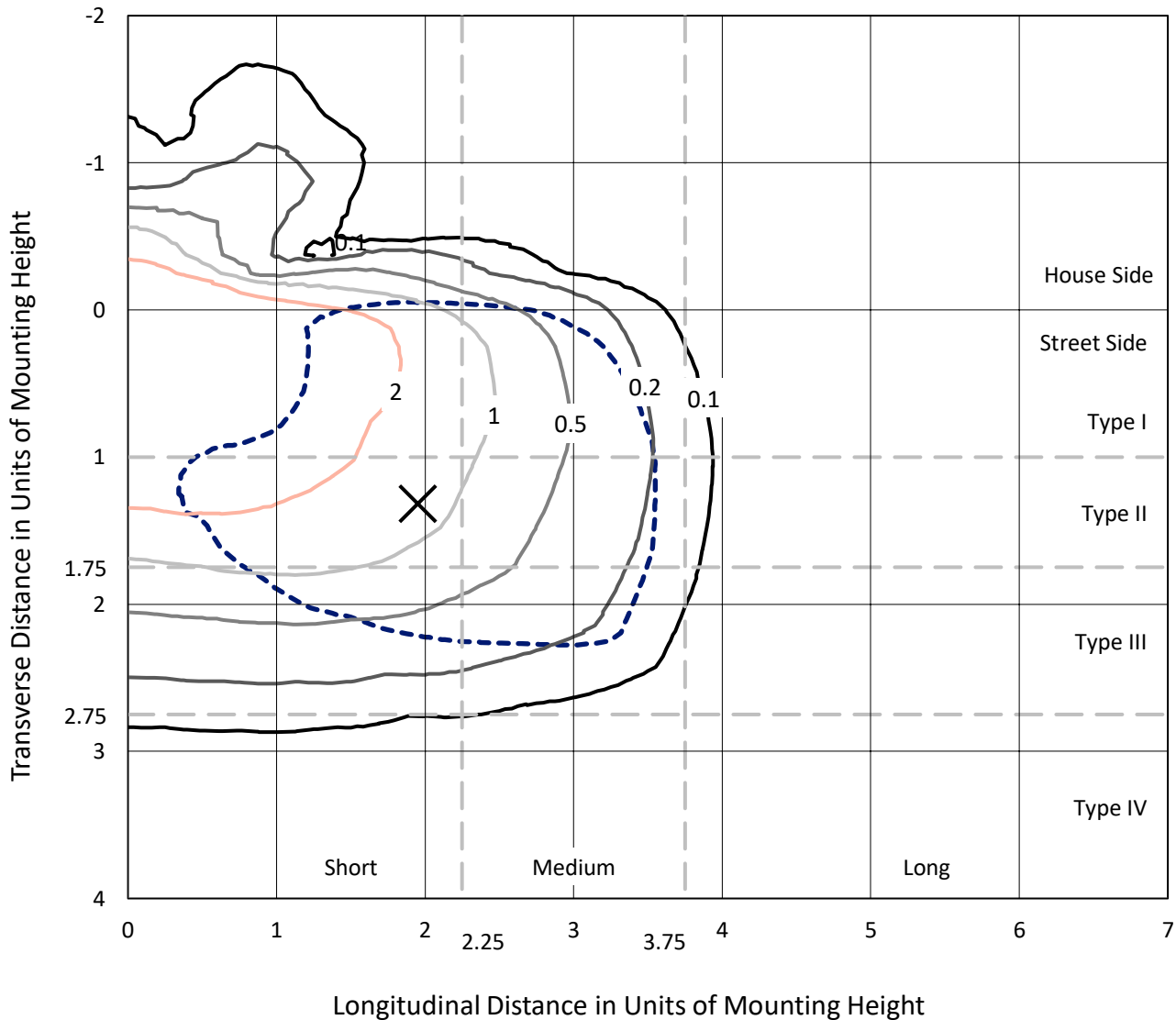
Lumens per Lamp: N/A
Luminaire Lumens: 17400.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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: P477651
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

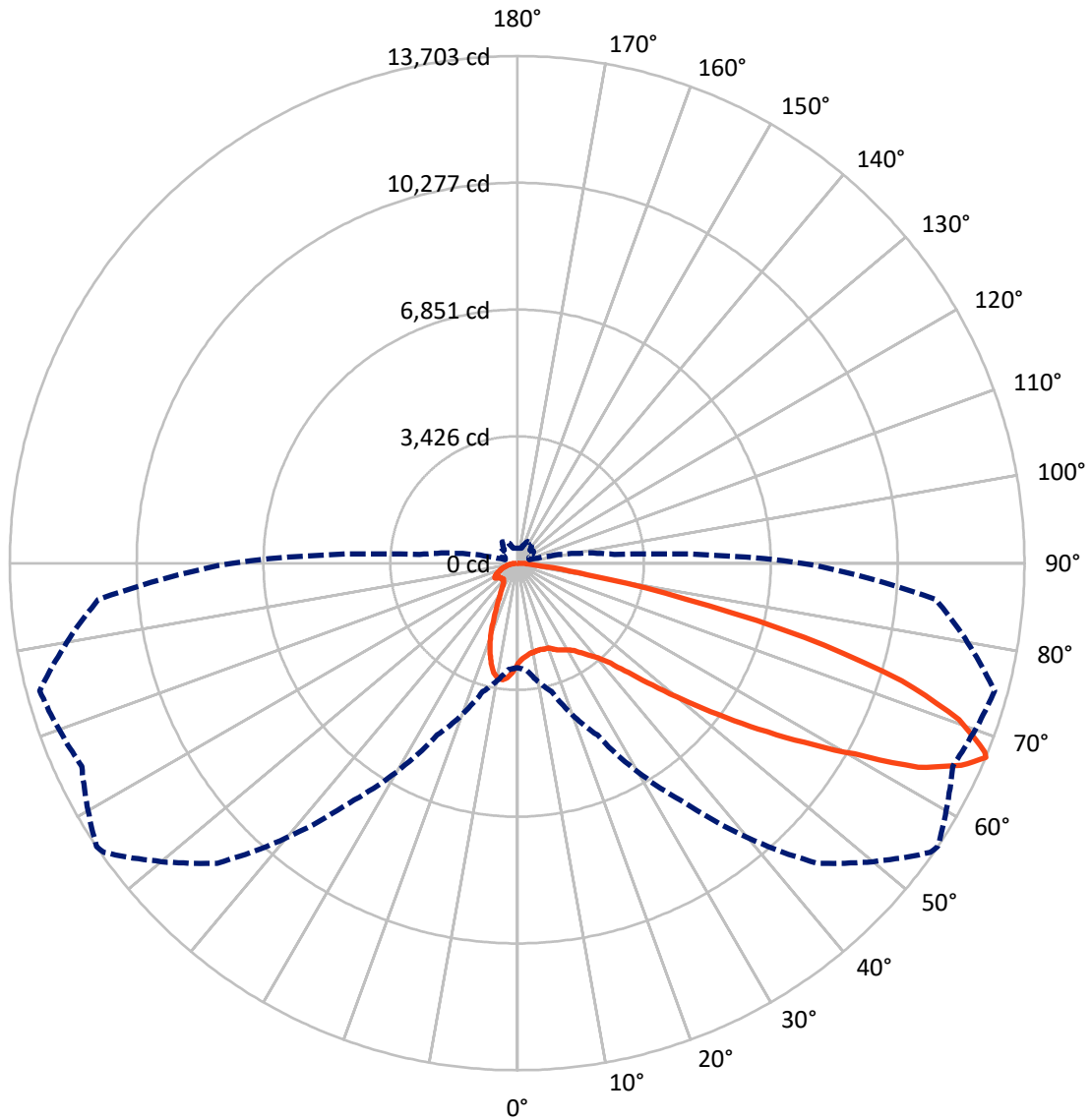
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477651
CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477651
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R

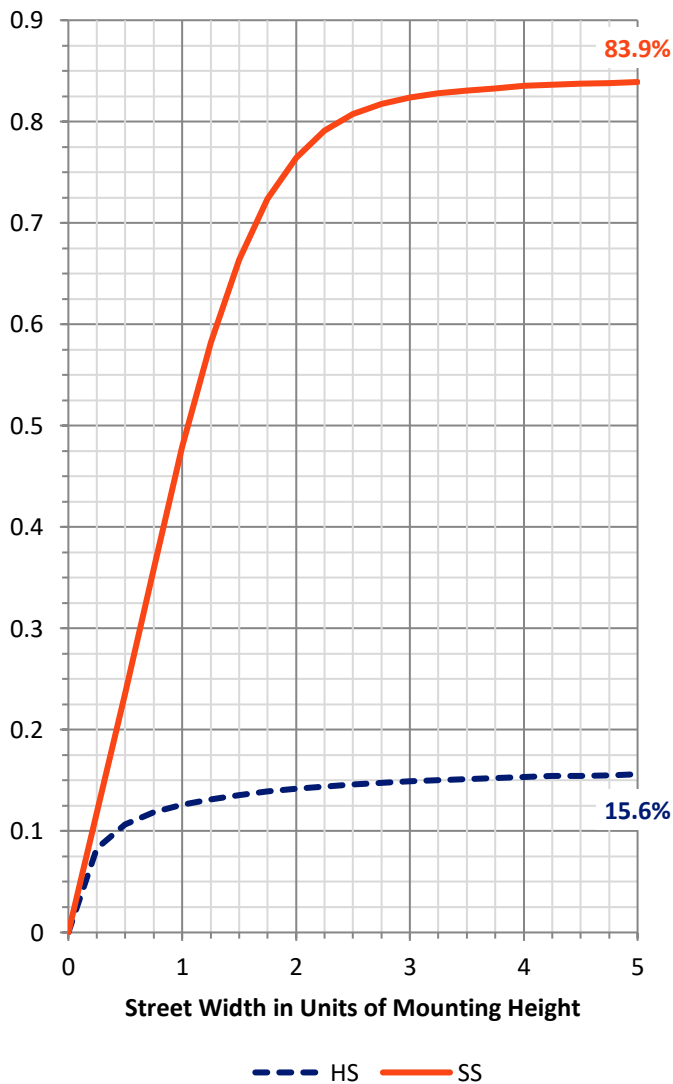
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2754.7	0.0	2754.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	14646.2	0.0	14646.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	17400.9	0.0	17400.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.8	1.5
10°-20°	711.6	4.1
20°-30°	1116.0	6.4
30°-40°	1593.1	9.2
40°-50°	2404.4	13.8
50°-60°	3827.4	22.0
60°-70°	4893.1	28.1
70°-80°	2385.7	13.7
80°-90°	208.7	1.2
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°	17400.9	100.0
0°-180°	17400.9	100.0

Coefficient of Utilization

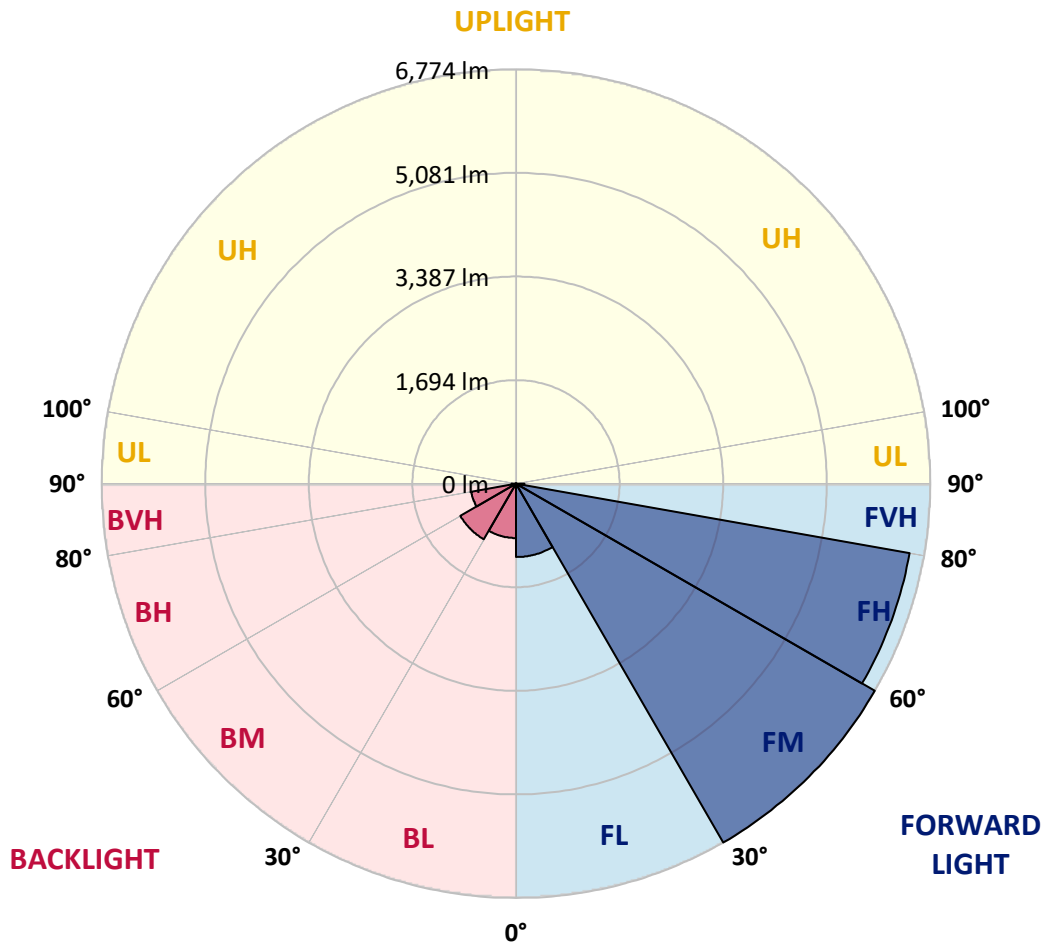


REPORT NUMBER: P477651
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.1	6.9			
FM (30°-60°)	6774.0	38.9			
FH (60°-80°)	6534.4	37.6			G3/7500
FVH (80°-90°)	138.6	0.8			G2/225
BL (0°-30°)	889.3	5.1	B2/1000		
BM (30°-60°)	1051.0	6.0	B2/2500		
BH (60°-80°)	744.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	70.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





REPORT NUMBER: P477651
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5
2.5°	2487.2	2477.0	2489.2	2477.0	2532.1	2564.7	2574.9	2589.2	2640.2	2689.2
5°	2383.1	2338.2	2387.2	2403.5	2407.6	2462.7	2519.8	2530.0	2556.5	2636.1
7.5°	2209.7	2260.7	2242.3	2291.3	2342.3	2397.4	2491.3	2464.7	2562.7	2638.2
10°	2173.0	2177.0	2197.4	2215.8	2260.7	2332.1	2462.7	2446.4	2546.3	2707.5
12.5°	2209.7	2209.7	2203.6	2189.3	2240.3	2309.7	2413.7	2421.9	2579.0	2727.9
15°	2338.2	2362.7	2297.4	2307.6	2287.2	2309.7	2401.5	2419.8	2591.2	2744.3
17.5°	2652.4	2644.3	2566.7	2458.6	2368.8	2354.6	2417.8	2438.2	2579.0	2791.2
20°	2958.5	2942.2	2807.5	2695.3	2517.8	2434.1	2444.3	2446.4	2599.4	2821.8
22.5°	3299.2	3342.1	3195.2	2966.7	2746.3	2538.2	2497.4	2530.0	2646.3	2838.1
25°	3833.8	3742.0	3615.5	3315.6	2960.5	2699.4	2585.1	2601.4	2691.2	2878.9
27.5°	4219.4	4182.7	3984.8	3742.0	3260.5	2825.9	2632.0	2662.6	2772.8	2876.9
30°	4590.8	4590.8	4470.4	4107.2	3576.7	3038.1	2732.0	2717.7	2734.1	2872.8
32.5°	5025.4	4966.2	4792.8	4552.0	3974.6	3231.9	2811.6	2815.7	2815.7	2948.3
35°	5253.9	5349.8	5233.5	4841.7	4278.6	3554.3	3003.4	2972.8	2950.3	3031.9
37.5°	5588.5	5645.6	5523.2	5292.6	4656.1	3815.4	3172.7	3148.2	3017.7	3097.2
40°	5790.5	5780.3	5776.2	5670.1	5155.9	4123.5	3421.7	3358.4	3182.9	3327.8
42.5°	5904.7	5884.3	6135.3	6070.0	5627.3	4576.5	3733.8	3699.1	3505.3	3737.9
45°	6033.3	6184.3	6390.3	6574.0	6176.1	5213.1	4262.3	4213.3	4039.9	4335.7
47.5°	6145.5	6331.2	6594.4	6790.3	6671.9	5904.7	4915.2	4927.4	4813.2	5117.2
50°	6333.2	6351.6	6708.6	7104.5	7196.3	6543.4	5792.5	5772.1	5721.1	6147.5
52.5°	6276.1	6331.2	6782.1	7288.1	7439.1	7218.7	6735.2	6796.4	6729.0	7265.7
55°	5345.7	5511.0	6737.2	7481.9	8014.5	7981.8	7947.1	7906.3	7902.2	8522.5
57.5°	4923.3	5058.0	5935.4	7696.2	8630.6	8871.4	9095.8	9140.7	9138.7	9887.5
60°	4645.9	4784.6	5610.9	7579.9	9155.0	10036.4	10466.9	10473.1	10460.8	11346.3
62.5°	4103.1	4237.8	5049.8	6943.3	9299.9	11111.7	12070.7	12150.2	11589.1	12603.2
65°	3450.2	3560.4	4276.6	5970.0	8914.2	11795.2	13276.5	13182.6	12539.9	13321.4
67°	2821.8	2895.2	3593.0	5125.3	7906.3	11466.7	13625.4	13702.9	12978.6	13352.0
67.5°	2642.2	2709.6	3368.6	4837.6	7522.7	11217.8	13637.6	13625.4	12986.8	13358.1
70°	1834.3	1862.8	2295.4	3327.8	5541.6	9477.4	12642.0	12670.5	12442.0	12633.8
72.5°	1216.0	1258.9	1534.3	2097.5	3266.6	6896.4	10566.9	10873.0	10728.1	10358.8
75°	783.5	808.0	1003.8	1248.7	1607.8	3927.7	7806.3	8010.4	7677.8	6406.7
77.5°	438.7	465.2	606.0	759.0	783.5	1634.3	4384.7	4637.7	3929.7	2721.8
80°	273.4	308.1	457.0	450.9	373.4	599.9	1807.7	1936.3	1571.1	936.5
82.5°	206.1	232.6	353.0	316.3	210.2	267.3	677.4	726.4	575.4	361.1
85°	140.8	177.5	255.0	195.9	110.2	128.5	269.3	289.7	263.2	175.5
87.5°	51.0	75.5	132.6	97.9	49.0	38.8	87.7	97.9	93.9	79.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477651
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2707.5	0°	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5
2732.0	2.5°	2770.8	2799.3	2813.6	2897.3	2932.0	2925.8	2934.0	2946.3	2958.5	2974.8
2766.7	5°	2793.2	2881.0	2927.9	3025.8	3091.1	3062.6	3099.3	3089.1	3074.8	3072.8
2830.0	7.5°	2866.7	2978.9	3119.7	3146.2	3174.8	3103.4	3042.1	2958.5	2938.1	2866.7
2883.0	10°	2997.3	3089.1	3260.5	3270.7	3144.2	2960.5	2823.8	2650.4	2648.4	2544.3
2964.6	12.5°	3121.7	3225.8	3364.5	3305.4	3003.4	2752.4	2530.0	2340.3	2260.7	2207.6
3013.6	15°	3199.3	3370.6	3444.1	3189.1	2756.5	2417.8	2130.1	1926.1	1844.5	1805.7
3074.8	17.5°	3270.7	3509.4	3476.7	2985.0	2452.5	2073.0	1730.2	1552.7	1530.3	1501.7
3172.7	20°	3368.6	3560.4	3360.4	2719.8	2107.7	1628.2	1409.9	1324.2	1344.6	1356.8
3182.9	22.5°	3460.4	3586.9	3213.5	2430.0	1664.9	1289.5	1181.4	1199.7	1230.3	1271.1
3207.4	25°	3501.2	3629.8	3015.6	2030.1	1267.1	1085.5	1061.0	1091.6	1142.6	1144.6
3242.1	27.5°	3527.7	3599.2	2776.9	1640.4	1001.8	948.8	985.5	1007.9	1014.0	1038.5
3315.6	30°	3574.7	3535.9	2474.9	1173.2	840.6	842.7	889.6	889.6	889.6	908.0
3389.0	32.5°	3656.3	3493.1	2122.0	856.9	724.3	789.6	777.4	773.3	765.1	742.7
3482.9	35°	3707.3	3376.8	1675.1	634.5	650.9	724.3	720.2	657.0	550.9	497.8
3721.6	37.5°	3813.4	3317.6	1232.4	489.7	608.0	691.7	669.2	516.2	399.9	348.9
4017.4	40°	4041.9	3278.8	852.9	428.5	579.5	675.4	597.8	440.7	306.1	216.3
4474.5	42.5°	4321.4	3280.9	579.5	404.0	581.5	710.0	575.4	377.5	216.3	173.4
5084.5	45°	4696.9	3250.3	397.9	404.0	618.2	767.2	589.7	342.8	210.2	220.4
5849.7	47.5°	5100.9	3276.8	295.8	367.3	624.3	769.2	538.6	336.7	202.0	255.0
6682.1	50°	5572.2	3303.3	244.8	338.7	626.4	744.7	495.8	328.5	210.2	269.3
7637.0	52.5°	6057.8	3387.0	208.1	320.3	650.9	734.5	495.8	340.7	210.2	234.6
8853.0	55°	6782.1	3601.2	299.9	399.9	740.6	801.9	610.1	477.4	293.8	302.0
10018.1	57.5°	7581.9	3821.6	334.6	420.3	761.0	722.3	657.0	526.4	310.1	312.2
10924.0	60°	8108.3	3829.7	332.6	410.1	712.1	624.3	642.7	555.0	316.3	267.3
11485.1	62.5°	8318.5	3580.8	346.9	410.1	663.1	583.5	659.0	597.8	326.5	334.6
11644.2	65°	8079.7	3066.6	334.6	367.3	583.5	522.3	663.1	606.0	357.1	336.7
11358.6	67°	7706.4	2642.2	340.7	348.9	542.7	495.8	697.8	636.6	414.2	404.0
11209.6	67.5°	7600.3	2530.0	338.7	338.7	528.4	487.6	706.0	636.6	422.4	418.3
9893.6	70°	6698.4	2050.5	346.9	334.6	467.2	463.2	750.8	671.3	485.6	489.7
7267.7	72.5°	5098.8	1554.7	344.8	334.6	406.0	442.8	757.0	693.7	528.4	489.7
4070.5	75°	2897.3	930.4	304.0	291.8	320.3	385.6	708.0	661.1	514.2	438.7
1626.2	77.5°	1197.7	479.5	279.5	263.2	265.2	314.2	589.7	616.2	489.7	373.4
542.7	80°	446.8	287.7	224.4	210.2	204.0	230.6	420.3	491.7	418.3	306.1
238.7	82.5°	232.6	179.5	153.0	153.0	138.7	146.9	226.5	326.5	316.3	210.2
95.9	85°	118.3	102.0	87.7	85.7	77.5	69.4	114.3	193.8	181.6	116.3
42.8	87.5°	63.3	57.1	36.7	34.7	28.6	18.4	20.4	38.8	63.3	51.0
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>
2707.5
2991.1
3091.1
2891.2
2540.2
2195.4
1797.5
1516.0
1342.5
1248.7
1165.0
1061.0
928.4
730.4
522.3
346.9
210.2
169.3
224.4
283.6
312.2
240.8
318.3
302.0
275.4
338.7
330.5
397.9
410.1
453.0
434.6
391.7
353.0
279.5
165.3
95.9
36.7
0.0

F REPORT)