

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: P477516

Luminaire Tested: **IFLD-M-SA4D-827-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477516  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-827-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

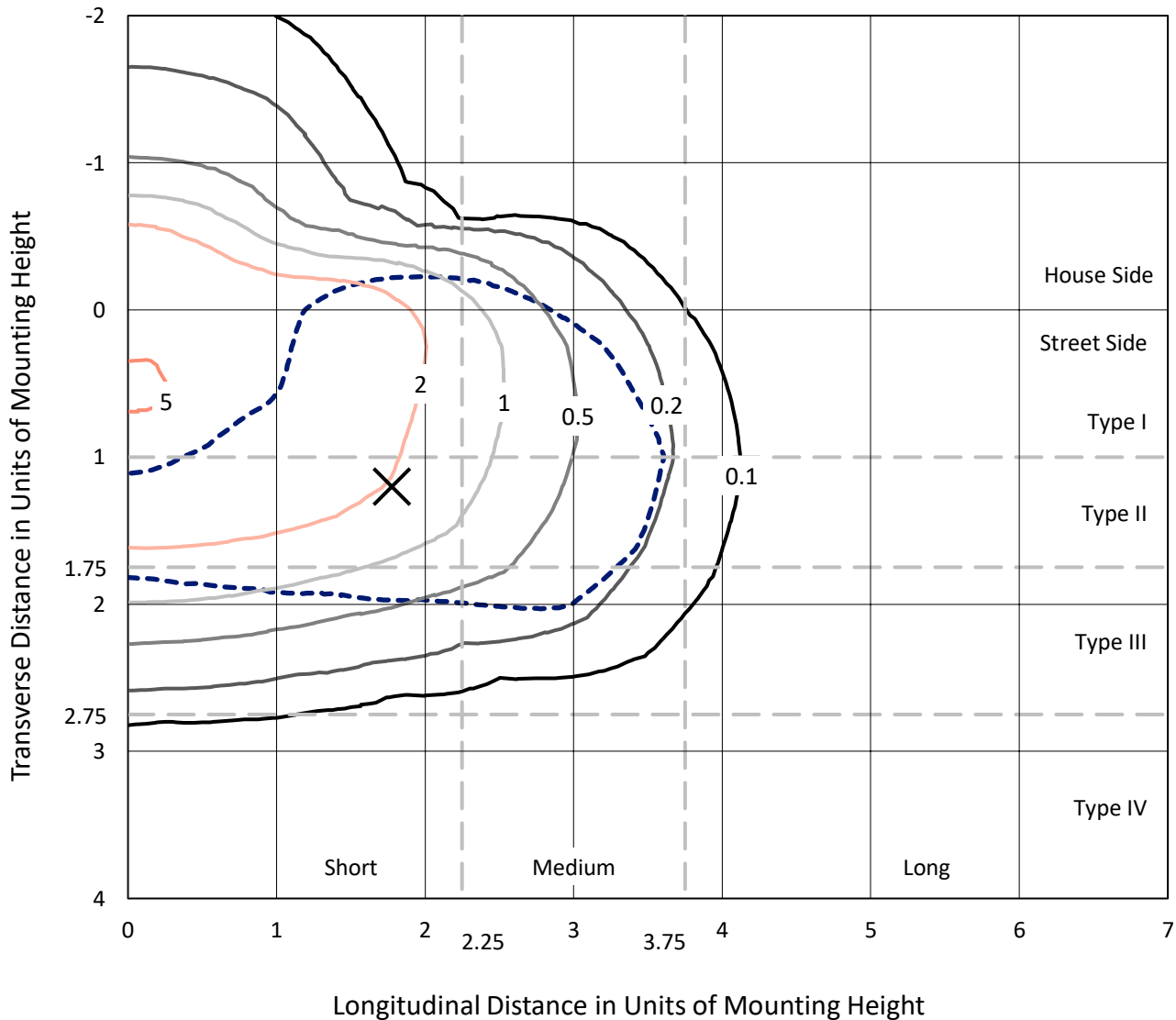
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23422.7 lumens  
Efficiency: N/A  
Efficacy: 93.8 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): 249.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P477516  
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

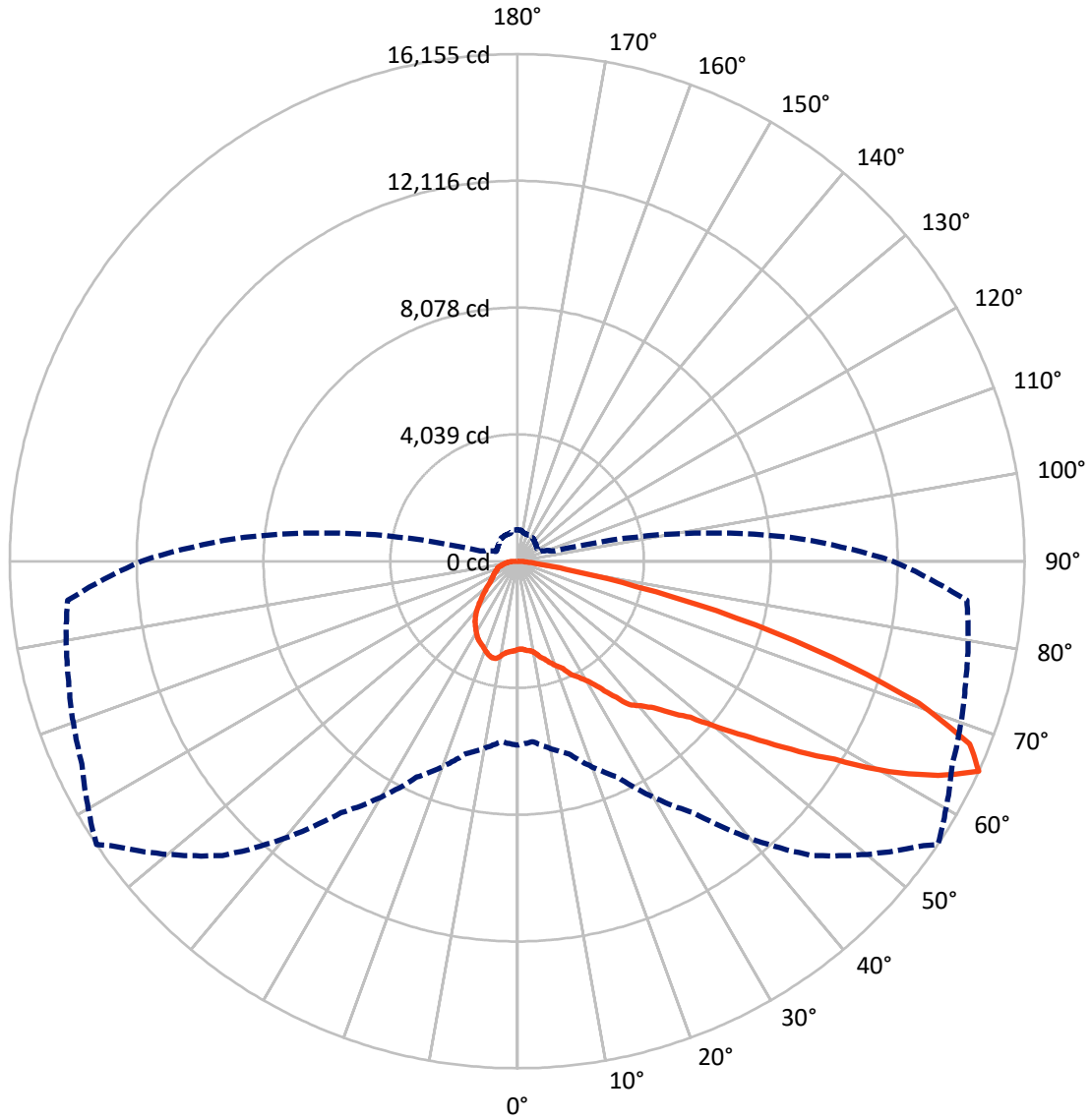
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P477516  
CATALOG NUMBER: IFLD-M-SA4D-827-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P477516  
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T3

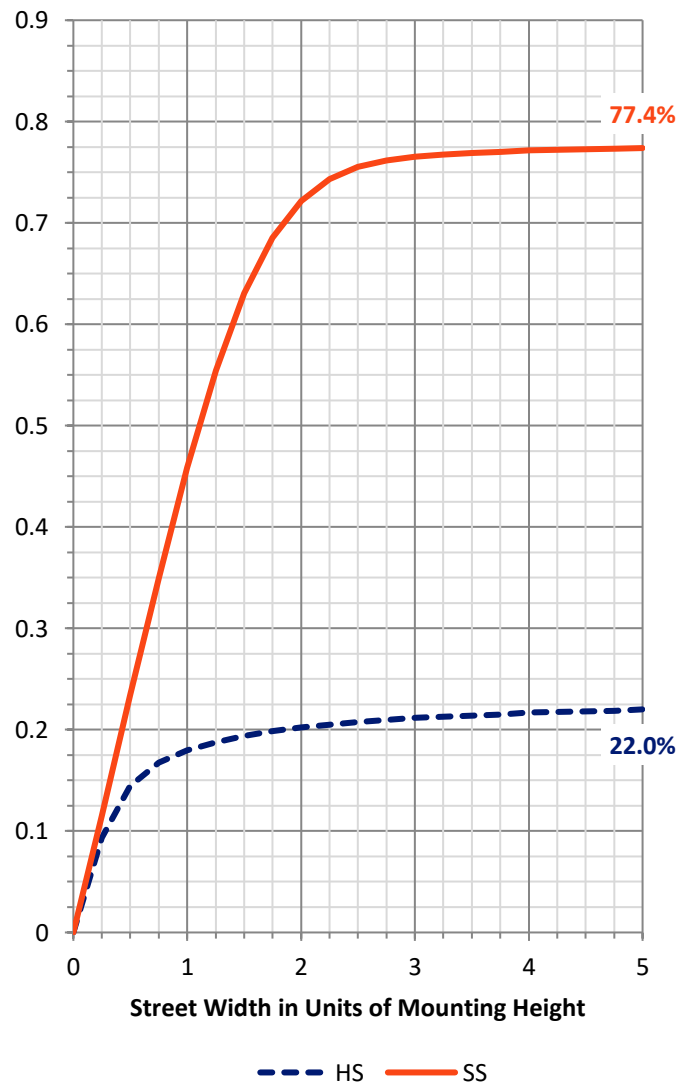
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5253.0	0.0	5253.0
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	18169.8	0.0	18169.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	23422.7	0.0	23422.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.6	1.2
10°-20°	904.7	3.9
20°-30°	1610.8	6.9
30°-40°	2412.1	10.3
40°-50°	3573.8	15.3
50°-60°	5506.8	23.5
60°-70°	6234.3	26.6
70°-80°	2587.3	11.0
80°-90°	314.3	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°	23422.7	100.0
0°-180°	23422.7	100.0

**Coefficient of Utilization**

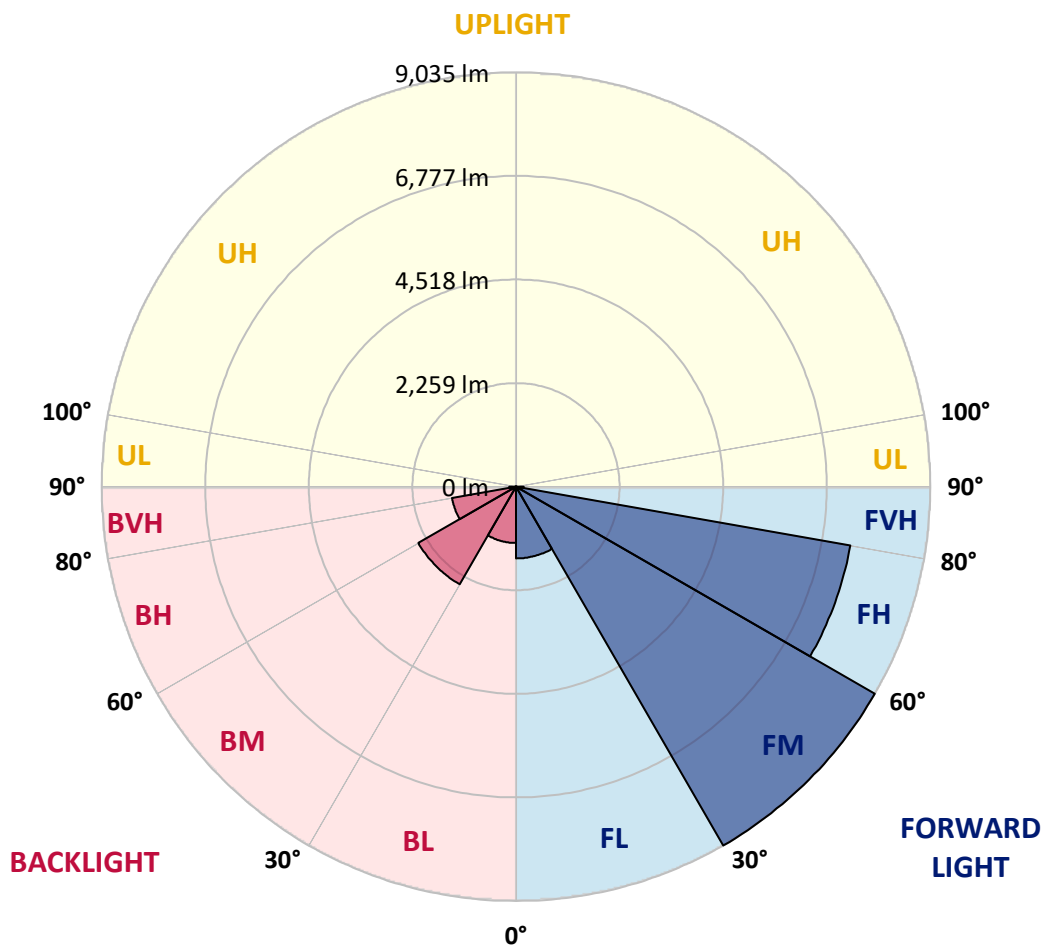


REPORT NUMBER: P477516  
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1565.3	6.7			
FM (30°-60°)	9035.5	38.6			
FH (60°-80°)	7403.2	31.6			G3/7500
FVH (80°-90°)	165.8	0.7			G2/225
BL (0°-30°)	1228.7	5.2	B3/2500		
BM (30°-60°)	2457.2	10.5	B2/2500		
BH (60°-80°)	1418.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	148.5	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: P477516  
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4
2.5°	2737.9	2752.6	2742.8	2772.2	2796.7	2796.7	2816.3	2801.6	2821.2	2848.2
5°	2828.6	2769.7	2801.6	2816.3	2808.9	2821.2	2801.6	2850.6	2818.7	2870.2
7.5°	2850.6	2872.7	2899.6	2875.1	2897.2	2884.9	2887.4	2880.0	2862.9	2904.5
10°	3012.4	2980.5	3041.8	3005.0	3000.1	2995.2	2985.4	2948.7	2990.3	2992.8
12.5°	3198.7	3169.3	3166.8	3137.4	3176.6	3105.5	3120.2	3100.6	3108.0	3117.8
15°	3333.5	3321.2	3377.6	3343.3	3291.8	3259.9	3294.3	3240.3	3267.3	3262.4
17.5°	3600.6	3598.2	3556.5	3500.2	3470.7	3424.2	3416.8	3394.8	3414.4	3404.6
20°	3786.9	3813.9	3821.2	3755.1	3642.3	3590.8	3578.6	3561.4	3583.5	3576.1
22.5°	4071.3	4029.6	4061.4	3946.2	3904.6	3782.0	3737.9	3713.4	3818.8	3791.8
25°	4252.6	4296.8	4264.9	4225.7	4132.5	3980.6	3948.7	4002.6	4044.3	4014.9
27.5°	4662.0	4617.8	4588.4	4470.8	4409.5	4250.2	4213.4	4193.8	4203.6	4220.8
30°	4973.3	4997.8	4931.6	4848.2	4693.8	4532.1	4446.3	4429.1	4394.8	4365.4
32.5°	5416.9	5380.1	5340.9	5287.0	5154.6	4941.4	4858.1	4794.3	4691.4	4554.1
35°	5630.1	5735.5	5706.1	5561.5	5461.0	5380.1	5355.6	5257.6	5171.8	4956.1
37.5°	5985.6	6029.7	5988.0	5941.4	5894.9	5809.1	5779.7	5806.6	5637.5	5282.1
40°	6216.0	6309.1	6394.9	6265.0	6255.2	6272.3	6090.9	6059.1	5711.0	5524.7
42.5°	6686.6	6725.8	6742.9	6738.0	6794.4	6794.4	6448.8	6380.2	6132.6	5980.6
45°	7309.1	7341.0	7402.3	7446.4	7382.7	7414.5	6921.9	6894.9	6674.3	6644.9
47.5°	7848.4	7924.4	8061.6	8191.5	8274.9	8167.0	7627.8	7436.6	7380.2	7556.7
50°	8319.0	8228.3	8549.4	8681.7	9047.0	9225.9	8407.2	8331.2	8240.6	8578.8
52.5°	8365.6	8488.1	8941.6	9206.3	9958.8	10289.7	9363.1	9331.3	9221.0	9610.7
55°	8698.9	8684.2	9140.1	9713.7	10608.3	11164.7	10608.3	10588.7	10348.5	10718.6
57.5°	8642.5	8792.0	9152.4	9953.9	11194.1	12103.5	12052.0	11917.2	11581.4	11882.9
60°	8451.3	8490.6	8929.3	9946.5	11534.8	13066.7	13610.9	13637.8	12951.5	13191.7
62.5°	7368.0	7458.7	8015.1	9164.6	11292.2	13731.0	15133.0	15037.4	14488.4	14213.8
65°	5860.5	5769.9	6348.3	7591.0	9782.3	13260.4	15799.7	16155.1	15292.3	14789.9
67.5°	3593.3	3571.2	4127.6	5223.3	7318.9	11284.8	15267.8	15544.8	15069.3	14667.3
70°	1850.6	1794.2	2142.2	2914.3	4600.7	8279.8	13287.3	13559.4	14012.9	13155.0
72.5°	862.8	850.5	1036.8	1433.9	2343.2	4867.9	10289.7	10485.7	11441.7	11091.2
75°	507.4	514.7	620.1	750.0	1142.2	2294.2	6828.7	7208.6	8245.5	7993.0
77.5°	379.9	379.9	441.2	522.1	666.7	887.3	3370.2	3872.7	4821.3	4336.0
80°	279.4	284.3	338.2	392.2	463.3	458.4	1338.3	1568.7	2210.9	1889.8
82.5°	218.1	225.5	262.3	291.7	326.0	277.0	549.0	590.7	909.4	723.1
85°	152.0	156.9	205.9	198.5	198.5	154.4	228.0	240.2	360.3	343.2
87.5°	36.8	41.7	100.5	110.3	83.3	46.6	71.1	80.9	129.9	149.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477516  
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2811.4	0°	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4
2860.4	2.5°	2823.7	2833.5	2875.1	2853.1	2865.3	2813.8	2855.5	2821.2	2850.6	2835.9
2882.5	5°	2902.1	2880.0	2904.5	2887.4	2887.4	2907.0	2936.4	2914.3	2958.5	2938.9
2899.6	7.5°	2933.9	2936.4	2951.1	2953.6	2941.3	3002.6	3005.0	2997.7	3039.3	3029.5
3017.3	10°	3012.4	3014.8	3041.8	3056.5	3044.2	3066.3	3041.8	3022.2	3019.7	3009.9
3110.4	12.5°	3137.4	3161.9	3157.0	3169.3	3171.7	3078.6	3022.2	2926.6	2914.3	2926.6
3247.7	15°	3252.6	3242.8	3247.7	3272.2	3169.3	3019.7	2919.2	2838.4	2843.3	2845.7
3426.6	17.5°	3389.9	3397.2	3404.6	3291.8	3103.1	2926.6	2838.4	2838.4	2813.8	2823.7
3551.6	20°	3546.7	3517.3	3453.6	3294.3	2987.9	2818.7	2791.8	2791.8	2762.4	2742.8
3686.4	22.5°	3669.3	3610.4	3514.9	3218.3	2884.9	2777.1	2710.9	2664.3	2630.0	2590.8
3835.9	25°	3747.7	3715.8	3529.6	3139.8	2808.9	2666.8	2568.7	2497.7	2453.5	2402.1
3953.6	27.5°	3867.8	3806.5	3571.2	3049.2	2725.6	2556.5	2404.5	2294.2	2210.9	2157.0
4132.5	30°	4029.6	3941.3	3541.8	2919.2	2598.2	2365.3	2186.4	2044.2	1948.6	1904.5
4301.7	32.5°	4161.9	4046.7	3517.3	2801.6	2456.0	2171.7	1933.9	1789.3	1735.4	1679.0
4586.0	35°	4414.4	4186.5	3500.2	2735.4	2328.5	1978.0	1728.0	1603.0	1534.4	1451.0
4755.1	37.5°	4608.0	4429.1	3458.5	2598.2	2164.3	1789.3	1571.1	1458.4	1355.5	1267.2
5147.3	40°	4912.0	4767.4	3460.9	2404.5	1970.7	1627.5	1448.6	1330.9	1201.0	1125.0
5728.2	42.5°	5483.1	5100.7	3475.6	2250.1	1752.5	1495.2	1338.3	1198.6	1068.7	1004.9
6390.0	45°	6184.1	5559.1	3384.9	2110.4	1529.5	1370.2	1205.9	1066.2	982.9	936.3
7289.5	47.5°	6990.5	6007.6	3262.4	1848.1	1343.2	1237.8	1083.4	1002.5	941.2	914.3
8448.9	50°	7892.5	6649.8	3228.1	1607.9	1198.6	1125.0	1024.6	963.3	921.6	889.7
9755.3	52.5°	9054.3	7397.4	3159.4	1360.4	1073.6	1034.4	1002.5	960.8	924.1	897.1
10973.5	55°	10164.7	8225.8	3085.9	1156.9	985.3	990.2	1007.4	970.6	938.8	897.1
12338.8	57.5°	11414.7	9071.5	2813.8	1007.4	919.2	968.2	1002.5	960.8	929.0	897.1
13735.9	60°	12186.8	9547.0	2282.0	877.5	860.3	926.5	973.1	929.0	894.6	906.9
14378.1	62.5°	12500.5	9297.0	1720.7	796.6	818.7	870.1	926.5	909.4	884.8	931.4
14370.7	65°	11966.2	8721.0	1230.4	728.0	762.3	813.8	884.8	904.5	911.8	1002.5
13199.1	67.5°	10647.5	7593.5	904.5	671.6	703.5	779.4	914.3	946.1	941.2	1054.0
11076.5	70°	8520.0	5939.0	705.9	625.0	681.4	806.4	955.9	955.9	921.6	1054.0
8448.9	72.5°	6198.8	4186.5	607.9	571.1	625.0	740.2	951.0	948.6	904.5	963.3
5380.1	75°	3752.6	2436.4	536.8	517.2	536.8	634.8	909.4	894.6	833.4	828.5
2588.3	77.5°	1870.2	1225.5	438.7	458.4	468.2	531.9	799.1	821.1	737.8	718.2
1022.1	80°	789.2	534.3	365.2	394.6	394.6	448.5	664.2	679.0	612.8	576.0
404.4	82.5°	360.3	306.4	311.3	343.2	321.1	348.1	527.0	544.1	497.6	436.3
171.6	85°	152.0	174.0	237.8	269.6	237.8	225.5	362.8	382.4	323.5	269.6
73.5	87.5°	68.6	95.6	149.5	196.1	120.1	105.4	193.6	201.0	161.8	120.1
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>
2811.4
2808.9
2911.9
3014.8
3009.9
2931.5
2880.0
2826.1
2713.4
2568.7
2411.9
2181.5
1929.0
1676.5
1443.7
1269.7
1132.4
1009.8
946.1
909.4
894.6
894.6
894.6
894.6
897.1
919.2
<i>1002.5</i>
1061.3
1031.9
929.0
818.7
705.9
563.7
426.5
272.1
112.7
0.0

F REPORT)