

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: P477274

Luminaire Tested: **IFLD-S-SA6A-727-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477274  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

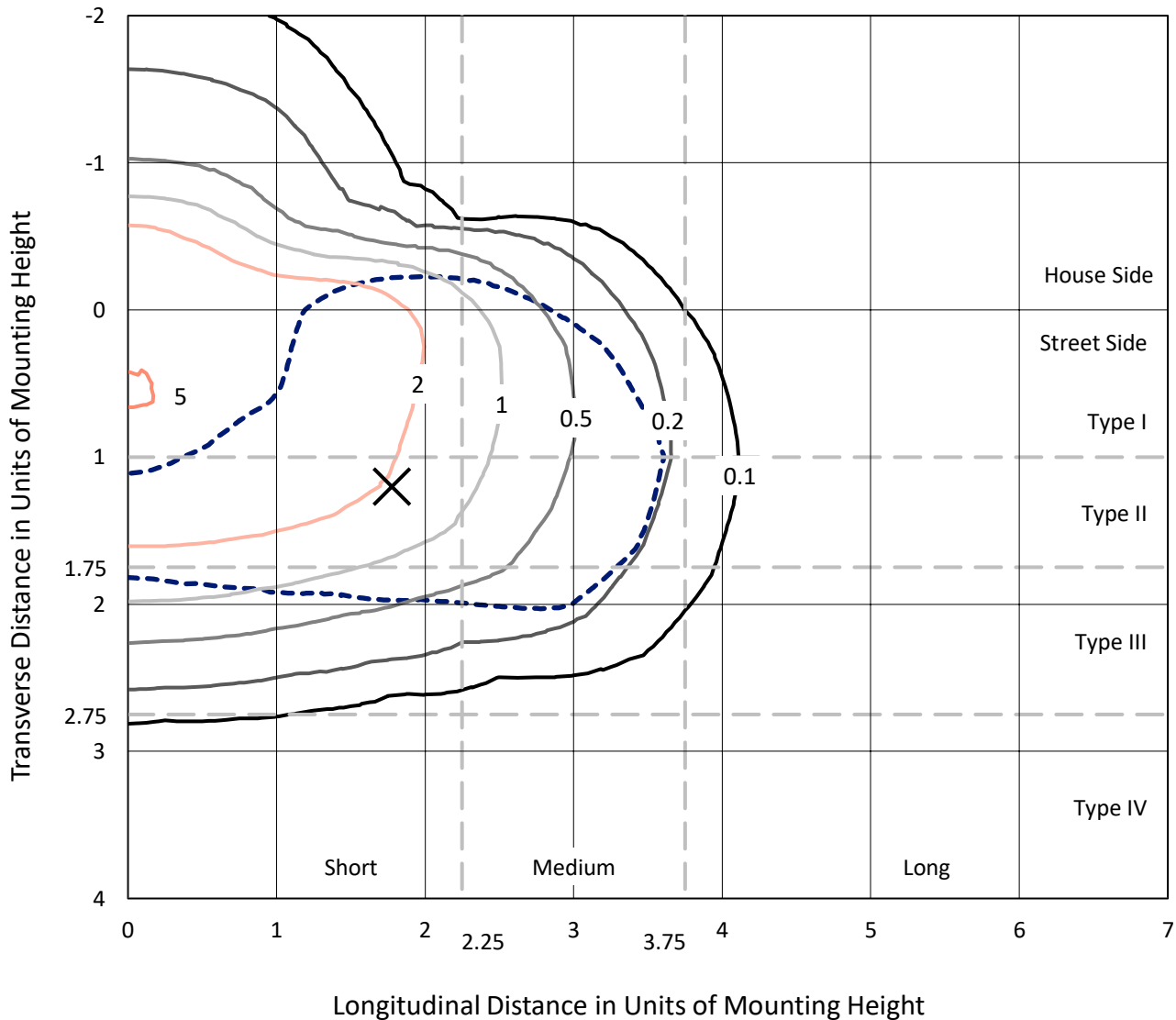
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22989.7 lumens  
Efficiency: N/A  
Efficacy: 121.3 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): 189.6  
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: P477274  
 CATALOG NUMBER: IFLD-S-SA6A-727-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

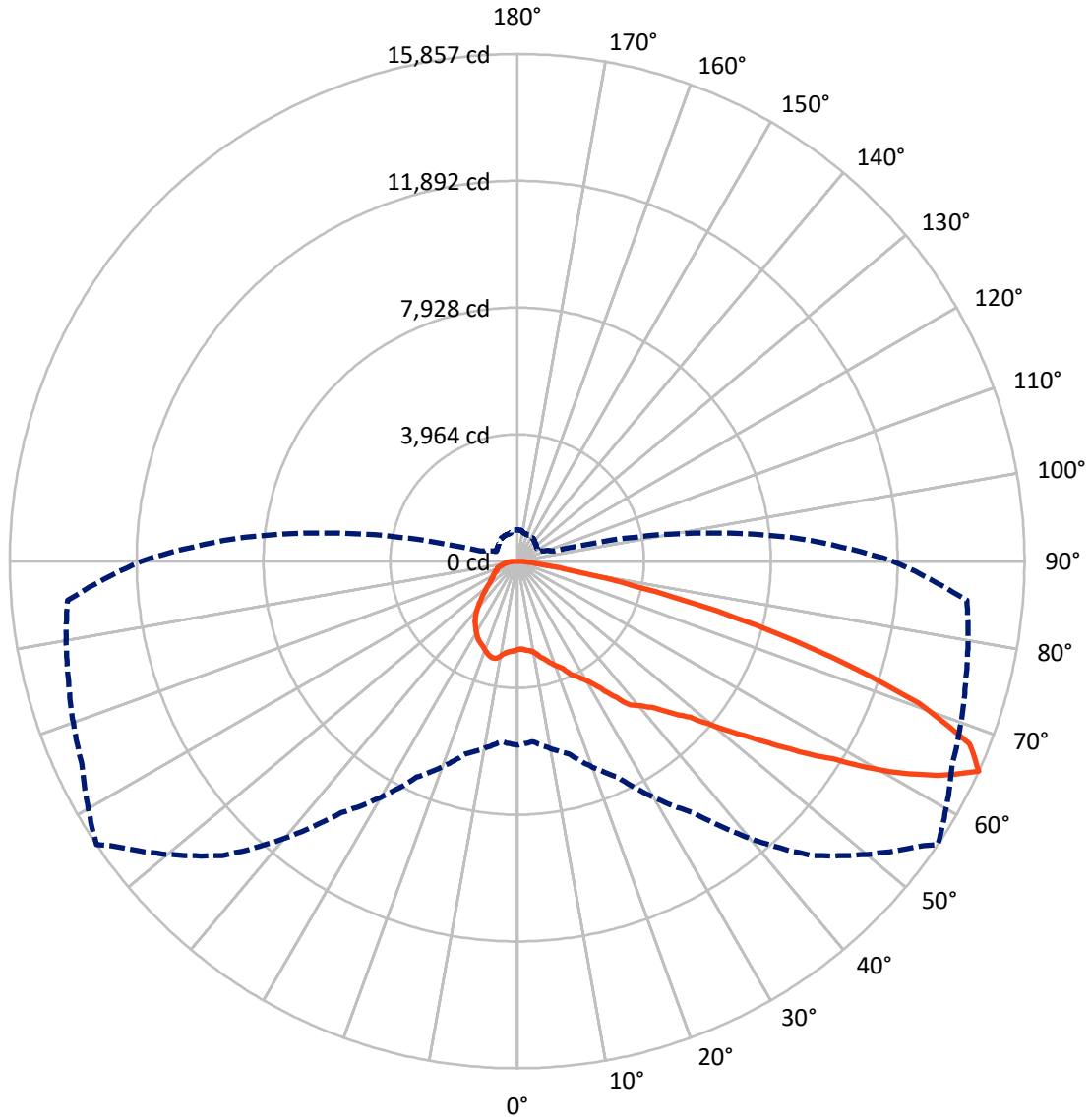
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P477274  
CATALOG NUMBER: IFLD-S-SA6A-727-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P477274  
 CATALOG NUMBER: IFLD-S-SA6A-727-U-T3

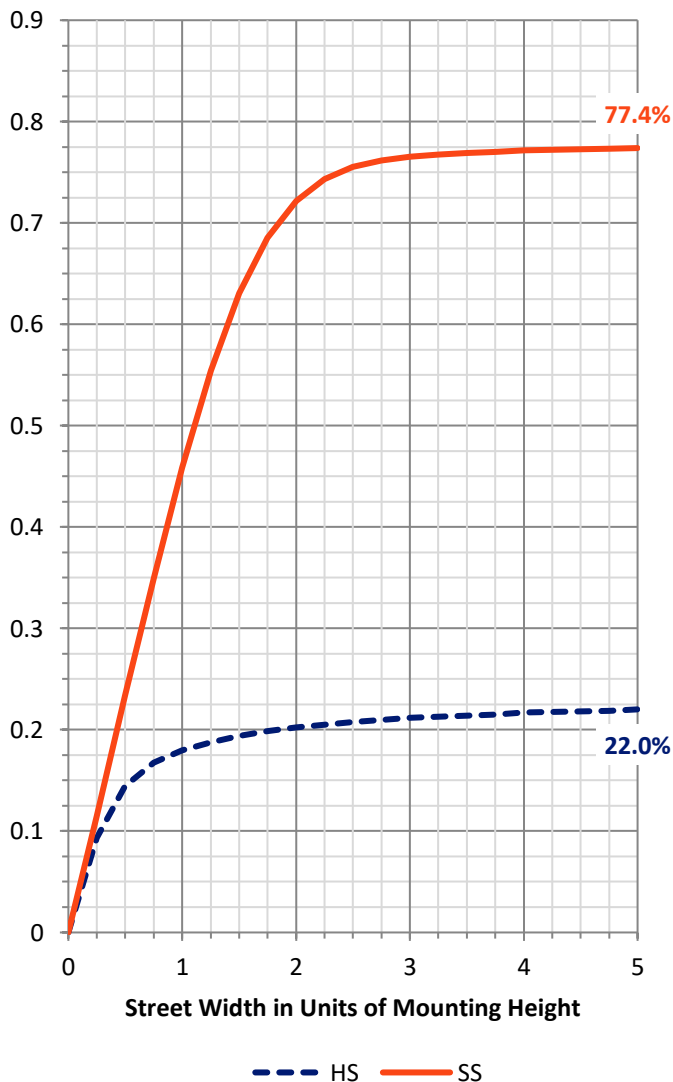
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5155.9	0.0	5155.9
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	17833.9	0.0	17833.9
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	22989.7	0.0	22989.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.4	1.2
10°-20°	887.9	3.9
20°-30°	1581.0	6.9
30°-40°	2367.5	10.3
40°-50°	3507.8	15.3
50°-60°	5405.0	23.5
60°-70°	6119.1	26.6
70°-80°	2539.5	11.0
80°-90°	308.5	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°	22989.7	100.0
0°-180°	22989.7	100.0

**Coefficient of Utilization**

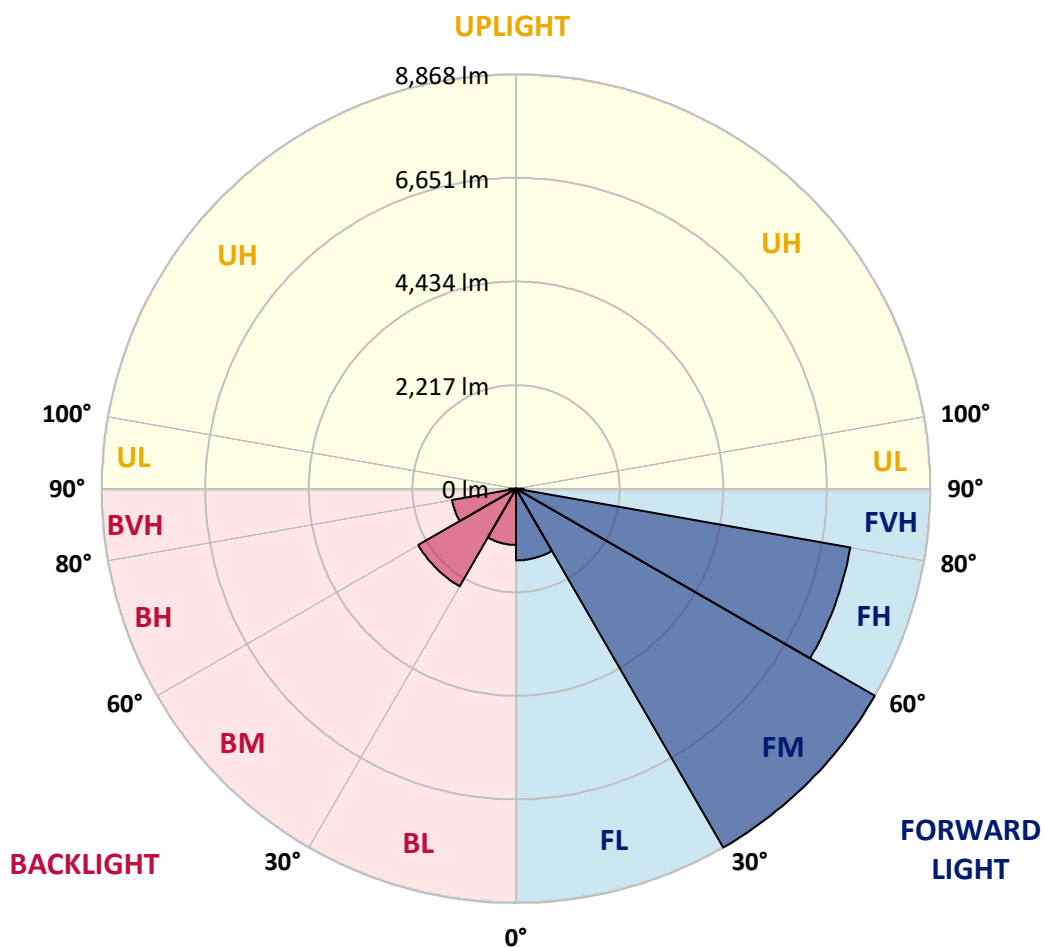


REPORT NUMBER: P477274  
 CATALOG NUMBER: IFLD-S-SA6A-727-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1536.4	6.7			
FM (30°-60°)	8868.4	38.6			
FH (60°-80°)	7266.3	31.6			G3/7500
FVH (80°-90°)	162.7	0.7			G2/225
BL (0°-30°)	1206.0	5.2	B3/2500		
BM (30°-60°)	2411.8	10.5	B2/2500		
BH (60°-80°)	1392.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	145.8	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: P477274  
 CATALOG NUMBER: IFLD-S-SA6A-727-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4
2.5°	2687.2	2701.7	2692.1	2720.9	2745.0	2745.0	2764.2	2749.8	2769.0	2795.5
5°	2776.3	2718.5	2749.8	2764.2	2757.0	2769.0	2749.8	2797.9	2766.6	2817.2
7.5°	2797.9	2819.6	2846.0	2822.0	2843.6	2831.6	2834.0	2826.8	2809.9	2850.8
10°	2956.7	2925.4	2985.6	2949.5	2944.7	2939.9	2930.2	2894.1	2935.0	2937.5
12.5°	3139.5	3110.7	3108.3	3079.4	3117.9	3048.1	3062.6	3043.3	3050.5	3060.1
15°	3271.9	3259.8	3315.2	3281.5	3231.0	3199.7	3233.4	3180.4	3206.9	3202.1
17.5°	3534.1	3531.7	3490.8	3435.4	3406.6	3360.9	3353.6	3332.0	3351.2	3341.6
20°	3716.9	3743.4	3750.6	3685.6	3575.0	3524.5	3512.4	3495.6	3517.2	3510.0
22.5°	3996.0	3955.1	3986.4	3873.3	3832.4	3712.1	3668.8	3644.7	3748.2	3721.7
25°	4174.0	4217.3	4186.0	4147.6	4056.1	3907.0	3875.7	3928.6	3969.5	3940.7
27.5°	4575.8	4532.5	4503.6	4388.1	4328.0	4171.6	4135.5	4116.3	4125.9	4142.7
30°	4881.3	4905.4	4840.4	4758.6	4607.1	4448.3	4364.1	4347.2	4313.6	4284.7
32.5°	5316.8	5280.7	5242.2	5189.3	5059.3	4850.0	4768.2	4705.7	4604.7	4469.9
35°	5526.1	5629.5	5600.6	5458.7	5360.1	5280.7	5256.6	5160.4	5076.2	4864.5
37.5°	5874.9	5918.2	5877.3	5831.6	5785.9	5701.7	5672.8	5699.3	5533.3	5184.4
40°	6101.0	6192.5	6276.7	6149.2	6139.5	6156.4	5978.3	5947.1	5605.5	5422.6
42.5°	6563.0	6601.4	6618.3	6613.5	6668.8	6668.8	6329.6	6262.2	6019.2	5870.1
45°	7174.0	7205.3	7265.4	7308.7	7246.2	7277.5	6793.9	6767.4	6550.9	6522.1
47.5°	7703.3	7777.9	7912.6	8040.1	8121.9	8016.0	7486.8	7299.1	7243.8	7417.0
50°	8165.2	8076.2	8391.3	8521.3	8879.7	9055.3	8251.8	8177.2	8088.2	8420.2
52.5°	8210.9	8331.2	8776.3	9036.1	9774.7	10099.4	9190.1	9158.8	9050.5	9433.0
55°	8538.1	8523.7	8971.1	9534.1	10412.2	10958.3	10412.2	10392.9	10157.2	10520.5
57.5°	8482.8	8629.5	8983.2	9769.8	10987.2	11879.7	11829.2	11696.9	11367.3	11663.2
60°	8295.1	8333.6	8764.2	9762.6	11321.6	12825.2	13359.3	13385.7	12712.1	12947.9
62.5°	7231.8	7320.8	7866.9	8995.2	11083.4	13477.1	14853.2	14759.4	14220.5	13951.1
65°	5752.2	5663.2	6231.0	7450.7	9601.4	13015.2	15507.6	15856.5	15009.6	14516.4
67.5°	3526.9	3505.2	4051.3	5126.7	7183.6	11076.2	14985.6	15257.4	14790.7	14396.2
70°	1816.4	1761.0	2102.6	2860.5	4515.6	8126.7	13041.7	13308.7	13753.8	12911.8
72.5°	846.8	834.8	1017.6	1407.4	2299.9	4777.9	10099.4	10291.9	11230.2	10886.1
75°	498.0	505.2	608.7	736.2	1121.1	2251.8	6702.5	7075.4	8093.0	7845.2
77.5°	372.9	372.9	433.0	512.4	654.4	870.9	3307.9	3801.1	4732.2	4255.8
80°	274.3	279.1	332.0	384.9	454.7	449.9	1313.6	1539.7	2170.0	1854.9
82.5°	214.1	221.3	257.4	286.3	320.0	271.9	538.9	579.8	892.5	709.7
85°	149.2	154.0	202.1	194.9	194.9	151.6	223.7	235.8	353.6	336.8
87.5°	36.1	40.9	98.6	108.3	81.8	45.7	69.8	79.4	127.5	146.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477274  
 CATALOG NUMBER: IFLD-S-SA6A-727-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2759.4	0°	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4
2807.5	2.5°	2771.5	2781.1	2822.0	2800.3	2812.3	2761.8	2802.7	2769.0	2797.9	2783.5
2829.2	5°	2848.4	2826.8	2850.8	2834.0	2834.0	2853.2	2882.1	2860.5	2903.8	2884.5
2846.0	7.5°	2879.7	2882.1	2896.6	2899.0	2886.9	2947.1	2949.5	2942.3	2983.2	2973.5
2961.5	10°	2956.7	2959.1	2985.6	3000.0	2988.0	3009.6	2985.6	2966.3	2963.9	2954.3
3052.9	12.5°	3079.4	3103.4	3098.6	3110.7	3113.1	3021.7	2966.3	2872.5	2860.5	2872.5
3187.7	15°	3192.5	3182.8	3187.7	3211.7	3110.7	2963.9	2865.3	2785.9	2790.7	2793.1
3363.3	17.5°	3327.2	3334.4	3341.6	3231.0	3045.7	2872.5	2785.9	2785.9	2761.8	2771.5
3486.0	20°	3481.2	3452.3	3389.7	3233.4	2932.6	2766.6	2740.2	2740.2	2711.3	2692.1
3618.3	22.5°	3601.4	3543.7	3449.9	3158.8	2831.6	2725.7	2660.8	2615.1	2581.4	2542.9
3765.0	25°	3678.4	3647.2	3464.3	3081.8	2757.0	2617.5	2521.3	2451.5	2408.2	2357.7
3880.5	27.5°	3796.3	3736.2	3505.2	2992.8	2675.2	2509.2	2360.1	2251.8	2170.0	2117.1
4056.1	30°	3955.1	3868.5	3476.3	2865.3	2550.1	2321.6	2146.0	2006.4	1912.6	1869.3
4222.1	32.5°	4085.0	3971.9	3452.3	2749.8	2410.6	2131.5	1898.2	1756.2	1703.3	1648.0
4501.2	35°	4332.8	4109.1	3435.4	2684.8	2285.5	1941.5	1696.1	1573.4	1506.0	1424.2
4667.2	37.5°	4522.9	4347.2	3394.5	2550.1	2124.3	1756.2	1542.1	1431.4	1330.4	1243.8
5052.1	40°	4821.2	4679.2	3397.0	2360.1	1934.2	1597.4	1421.8	1306.3	1178.8	1104.3
5622.3	42.5°	5381.7	5006.4	3411.4	2208.5	1720.1	1467.5	1313.6	1176.4	1048.9	986.4
6271.9	45°	6069.8	5456.3	3322.4	2071.4	1501.2	1344.8	1183.6	1046.5	964.7	919.0
7154.8	47.5°	6861.3	5896.6	3202.1	1814.0	1318.4	1214.9	1063.4	984.0	923.8	897.4
8292.7	50°	7746.6	6526.9	3168.4	1578.2	1176.4	1104.3	1005.6	945.5	904.6	873.3
9575.0	52.5°	8886.9	7260.6	3101.0	1335.2	1053.7	1015.2	984.0	943.1	907.0	880.5
10770.7	55°	9976.7	8073.8	3028.9	1135.5	967.1	971.9	988.8	952.7	921.4	880.5
12110.7	57.5°	11203.7	8903.8	2761.8	988.8	902.2	950.3	984.0	943.1	911.8	880.5
13482.0	60°	11961.5	9370.5	2239.8	861.3	844.4	909.4	955.1	911.8	878.1	890.1
14112.3	62.5°	12269.4	9125.1	1688.9	781.9	803.5	854.0	909.4	892.5	868.5	914.2
14105.1	65°	11745.0	8559.7	1207.7	714.5	748.2	798.7	868.5	887.7	894.9	984.0
12955.1	67.5°	10450.7	7453.1	887.7	659.2	690.5	765.0	897.4	928.6	923.8	1034.5
10871.7	70°	8362.5	5829.2	692.9	613.5	668.8	791.5	938.3	938.3	904.6	1034.5
8292.7	72.5°	6084.2	4109.1	596.6	560.5	613.5	726.5	933.4	931.0	887.7	945.5
5280.7	75°	3683.2	2391.3	526.9	507.6	526.9	623.1	892.5	878.1	818.0	813.2
2540.5	77.5°	1835.6	1202.9	430.6	449.9	459.5	522.1	784.3	805.9	724.1	704.9
1003.2	80°	774.7	524.5	358.5	387.3	387.3	440.3	652.0	666.4	601.4	565.4
397.0	82.5°	353.6	300.7	305.5	336.8	315.2	341.6	517.2	534.1	488.4	428.2
168.4	85°	149.2	170.8	233.4	264.6	233.4	221.3	356.1	375.3	317.6	264.6
72.2	87.5°	67.4	93.8	146.8	192.5	117.9	103.4	190.1	197.3	158.8	117.9
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°  
2759.4  
2757.0  
2858.1  
2959.1  
2954.3  
2877.3  
2826.8  
2773.9  
2663.2  
2521.3  
2367.3  
2141.1  
1893.3  
1645.5  
1417.0  
1246.2  
1111.5  
991.2  
928.6  
892.5  
878.1  
878.1  
878.1  
878.1  
880.5  
902.2  
*984.0*  
1041.7  
1012.8  
911.8  
803.5  
692.9  
553.3  
418.6  
267.0  
110.7  
0.0

F REPORT)