

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: P477766

Luminaire Tested: **IFLD-S-SA3A-740-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477766  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

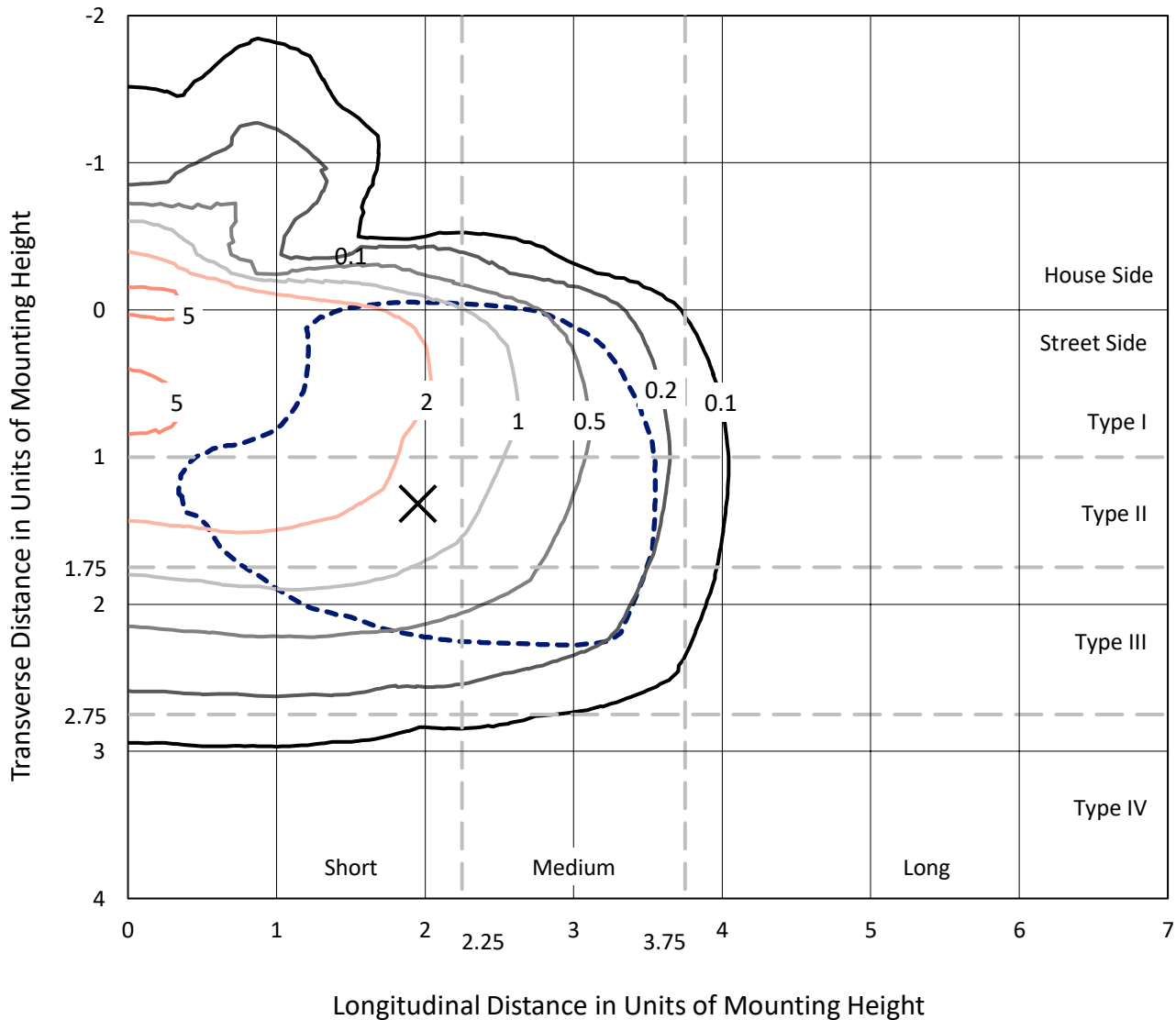
Lumens per Lamp: N/A  
Luminaire Lumens: 13515 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8  
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: P477766  
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

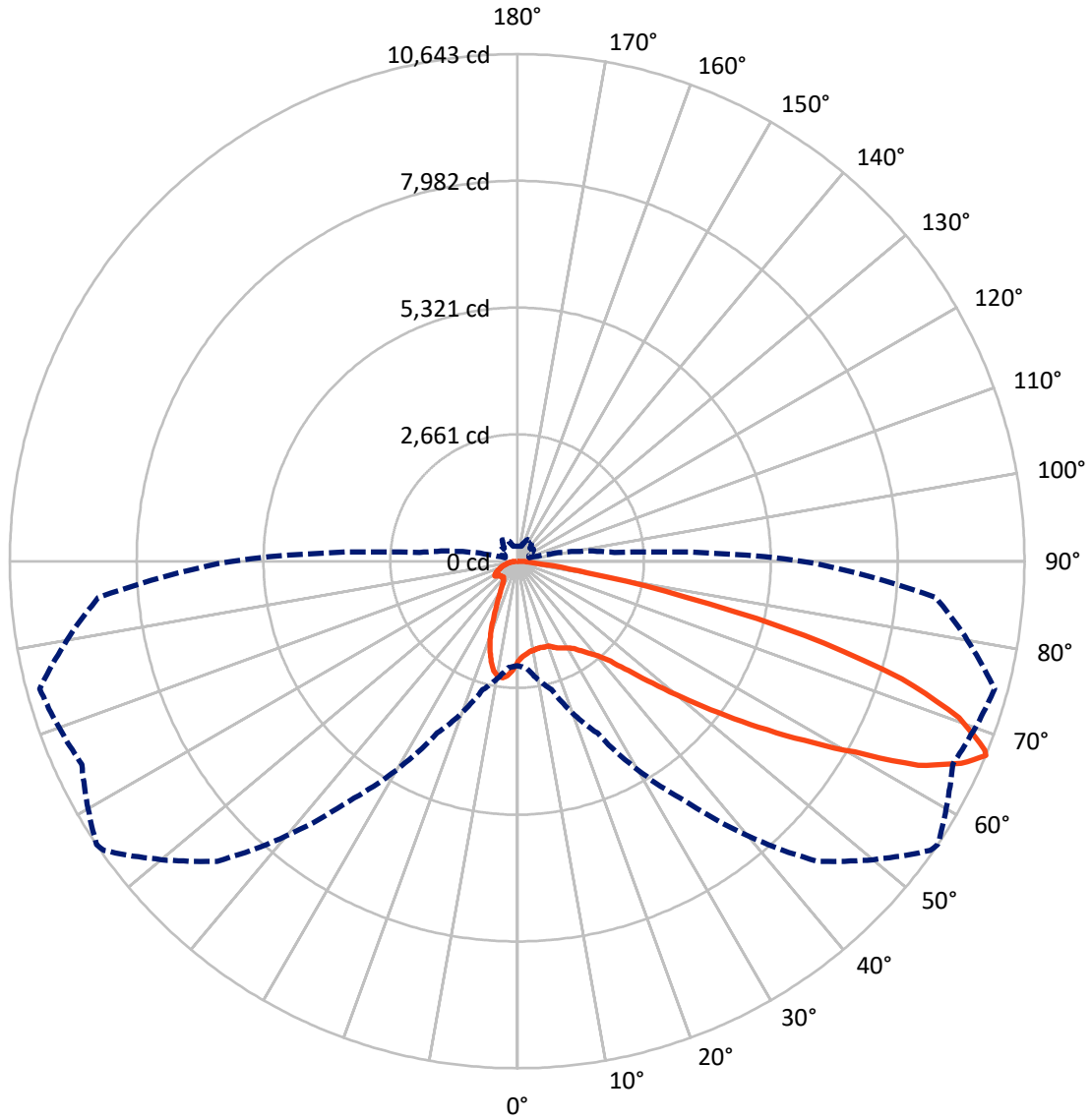
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P477766  
CATALOG NUMBER: IFLD-S-SA3A-740-U-T3R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P477766  
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2139.6	0.0	2139.6
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	11375.4	0.0	11375.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	13515.0	0.0	13515.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.6	1.5
10°-20°	552.7	4.1
20°-30°	866.8	6.4
30°-40°	1237.3	9.2
40°-50°	1867.5	13.8
50°-60°	2972.7	22.0
60°-70°	3800.4	28.1
70°-80°	1852.9	13.7
80°-90°	162.1	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°	13515.0	100.0
0°-180°	13515.0	100.0

**Coefficient of Utilization**

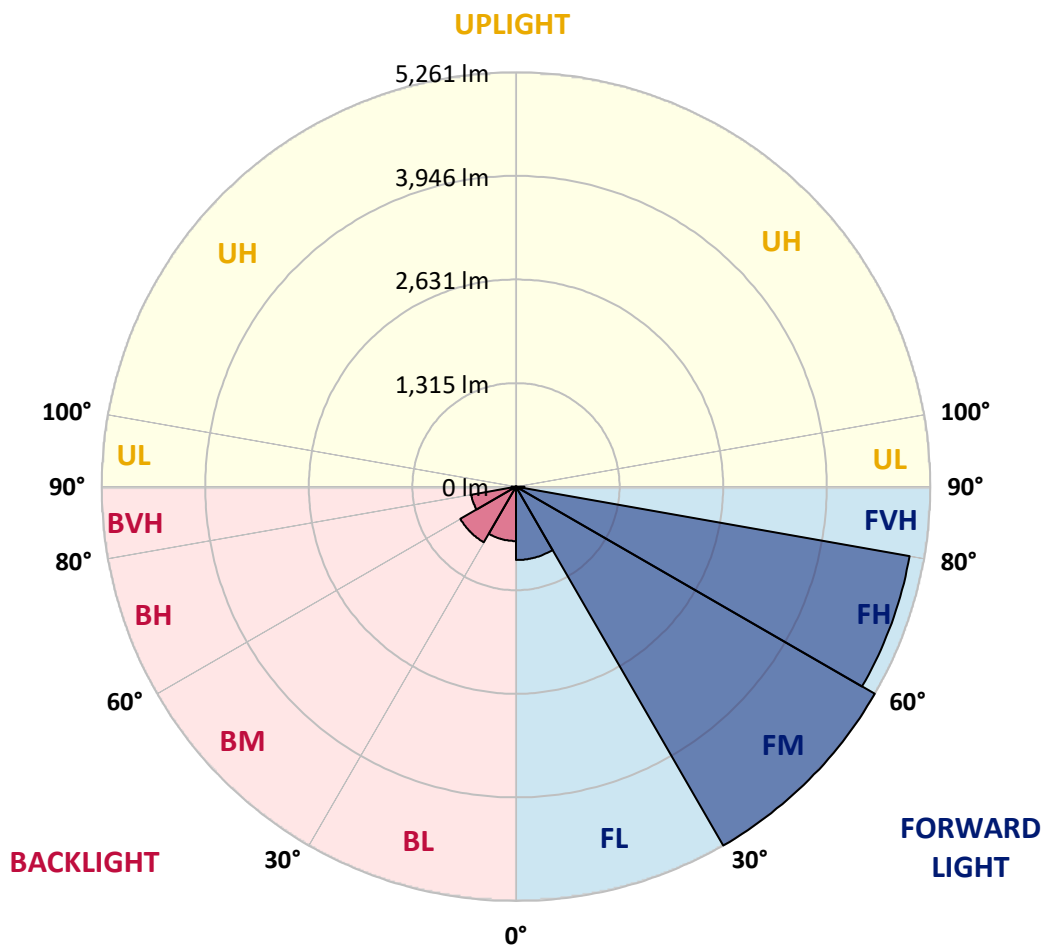


REPORT NUMBER: P477766  
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.3	6.9			
FM (30°-60°)	5261.3	38.9			
FH (60°-80°)	5075.2	37.6			G3/7500
FVH (80°-90°)	107.6	0.8			G2/225
BL (0°-30°)	690.7	5.1	B2/1000		
BM (30°-60°)	816.3	6.0	B1/1000		
BH (60°-80°)	578.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	54.4	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: P477766  
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9
2.5°	1931.7	1923.8	1933.3	1923.8	1966.6	1992.0	1999.9	2011.0	2050.6	2088.6
5°	1850.9	1816.1	1854.1	1866.8	1869.9	1912.7	1957.1	1965.0	1985.6	2047.4
7.5°	1716.2	1755.8	1741.6	1779.6	1819.2	1862.0	1934.9	1914.3	1990.4	2049.0
10°	1687.7	1690.9	1706.7	1721.0	1755.8	1811.3	1912.7	1900.1	1977.7	2102.9
12.5°	1716.2	1716.2	1711.5	1700.4	1740.0	1793.9	1874.7	1881.0	2003.1	2118.7
15°	1816.1	1835.1	1784.4	1792.3	1776.4	1793.9	1865.2	1879.4	2012.6	2131.4
17.5°	2060.1	2053.8	1993.5	1909.6	1839.8	1828.7	1877.9	1893.7	2003.1	2167.9
20°	2297.8	2285.1	2180.5	2093.4	1955.5	1890.5	1898.5	1900.1	2018.9	2191.6
22.5°	2562.5	2595.7	2481.6	2304.1	2133.0	1971.4	1939.7	1965.0	2055.4	2204.3
25°	2977.6	2906.3	2808.1	2575.1	2299.4	2096.6	2007.8	2020.5	2090.2	2236.0
27.5°	3277.2	3248.6	3094.9	2906.3	2532.3	2194.8	2044.3	2068.0	2153.6	2234.4
30°	3565.6	3565.6	3472.1	3190.0	2778.0	2359.6	2121.9	2110.8	2123.5	2231.3
32.5°	3903.1	3857.1	3722.5	3535.5	3087.0	2510.2	2183.7	2186.9	2186.9	2289.9
35°	4080.6	4155.1	4064.7	3760.5	3323.1	2760.5	2332.7	2308.9	2291.5	2354.9
37.5°	4340.5	4384.9	4289.8	4110.7	3616.3	2963.4	2464.2	2445.2	2343.8	2405.6
40°	4497.4	4489.4	4486.3	4403.9	4004.5	3202.7	2657.5	2608.4	2472.1	2584.6
42.5°	4586.1	4570.3	4765.2	4714.5	4370.6	3554.5	2900.0	2873.1	2722.5	2903.2
45°	4685.9	4803.2	4963.3	5105.9	4796.9	4048.9	3310.4	3272.4	3137.7	3367.5
47.5°	4773.1	4917.3	5121.7	5273.9	5182.0	4586.1	3817.5	3827.0	3738.3	3974.4
50°	4918.9	4933.2	5210.5	5517.9	5589.2	5082.1	4499.0	4483.1	4443.5	4774.7
52.5°	4874.5	4917.3	5267.5	5660.5	5777.8	5606.7	5231.1	5278.6	5226.3	5643.1
55°	4151.9	4280.3	5232.7	5811.1	6224.7	6199.3	6172.4	6140.7	6137.5	6619.3
57.5°	3823.9	3928.5	4609.9	5977.5	6703.3	6890.3	7064.6	7099.4	7097.9	7679.4
60°	3608.4	3716.1	4357.9	5887.1	7110.5	7795.1	8129.5	8134.2	8124.7	8812.5
62.5°	3186.8	3291.4	3922.1	5392.7	7223.0	8630.3	9375.1	9436.9	9001.1	9788.7
65°	2679.7	2765.3	3321.5	4636.8	6923.5	9161.1	10311.6	10238.7	9739.5	10346.5
67°	2191.6	2248.7	2790.6	3980.8	6140.7	8906.0	10582.6	10642.8	10080.3	10370.2
67.5°	2052.2	2104.5	2616.3	3757.3	5842.8	8712.7	10592.1	10582.6	10086.6	10375.0
70°	1424.6	1446.8	1782.8	2584.6	4304.0	7360.9	9818.8	9841.0	9663.5	9812.4
72.5°	944.5	977.8	1191.7	1629.1	2537.1	5356.3	8207.1	8444.8	8332.3	8045.5
75°	608.5	627.5	779.7	969.8	1248.7	3050.5	6063.0	6221.5	5963.2	4975.9
77.5°	340.7	361.3	470.7	589.5	608.5	1269.3	3405.5	3602.0	3052.1	2114.0
80°	212.3	239.3	355.0	350.2	290.0	465.9	1404.0	1503.9	1220.2	727.4
82.5°	160.1	180.7	274.2	245.6	163.2	207.6	526.1	564.2	446.9	280.5
85°	109.3	137.9	198.1	152.1	85.6	99.8	209.2	225.0	204.4	136.3
87.5°	39.6	58.6	103.0	76.1	38.0	30.1	68.1	76.1	72.9	61.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477766  
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2102.9	0°	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9
2121.9	2.5°	2152.0	2174.2	2185.3	2250.3	2277.2	2272.5	2278.8	2288.3	2297.8	2310.5
2148.8	5°	2169.4	2237.6	2274.0	2350.1	2400.8	2378.6	2407.2	2399.2	2388.1	2386.6
2198.0	7.5°	2226.5	2313.7	2423.0	2443.6	2465.8	2410.3	2362.8	2297.8	2282.0	2226.5
2239.2	10°	2327.9	2399.2	2532.3	2540.3	2442.0	2299.4	2193.2	2058.5	2056.9	1976.1
2302.6	12.5°	2424.6	2505.4	2613.2	2567.2	2332.7	2137.8	1965.0	1817.6	1755.8	1714.6
2340.6	15°	2484.8	2617.9	2675.0	2476.9	2140.9	1877.9	1654.4	1496.0	1432.6	1402.5
2388.1	17.5°	2540.3	2725.7	2700.3	2318.4	1904.8	1610.1	1343.8	1206.0	1188.5	1166.3
2464.2	20°	2616.3	2765.3	2610.0	2112.4	1637.0	1264.6	1095.0	1028.5	1044.3	1053.8
2472.1	22.5°	2687.6	2785.9	2495.9	1887.4	1293.1	1001.5	917.5	931.8	955.6	987.3
2491.1	25°	2719.3	2819.2	2342.2	1576.8	984.1	843.1	824.0	847.8	887.4	889.0
2518.1	27.5°	2739.9	2795.4	2156.8	1274.1	778.1	736.9	765.4	782.8	787.6	806.6
2575.1	30°	2776.4	2746.3	1922.2	911.2	652.9	654.5	690.9	690.9	690.9	705.2
2632.2	32.5°	2839.8	2713.0	1648.1	665.6	562.6	613.3	603.8	600.6	594.3	576.8
2705.1	35°	2879.4	2622.7	1301.0	492.8	505.5	562.6	559.4	510.3	427.9	386.7
2890.5	37.5°	2961.8	2576.7	957.2	380.3	472.2	537.2	519.8	400.9	310.6	271.0
3120.3	40°	3139.3	2546.6	662.4	332.8	450.1	524.5	464.3	342.3	237.7	168.0
3475.2	42.5°	3356.4	2548.2	450.1	313.8	451.6	551.5	446.9	293.2	168.0	134.7
3949.1	45°	3648.0	2524.4	309.0	313.8	480.2	595.8	458.0	266.2	163.2	171.1
4543.3	47.5°	3961.7	2545.0	229.8	285.2	484.9	597.4	418.4	261.5	156.9	198.1
5189.9	50°	4327.8	2565.6	190.2	263.1	486.5	578.4	385.1	255.1	163.2	209.2
5931.5	52.5°	4705.0	2630.6	161.6	248.8	505.5	570.5	385.1	264.6	163.2	182.2
6876.0	55°	5267.5	2797.0	233.0	310.6	575.2	622.8	473.8	370.8	228.2	234.5
7780.9	57.5°	5888.7	2968.1	259.9	326.4	591.1	561.0	510.3	408.9	240.9	242.5
8484.5	60°	6297.6	2974.5	258.3	318.5	553.1	484.9	499.2	431.0	245.6	207.6
8920.3	62.5°	6460.8	2781.1	269.4	318.5	515.0	453.2	511.9	464.3	253.6	259.9
9043.9	65°	6275.4	2381.8	259.9	285.2	453.2	405.7	515.0	470.7	277.3	261.5
8822.0	67°	5985.4	2052.2	264.6	271.0	421.5	385.1	542.0	494.4	321.7	313.8
8706.3	67.5°	5903.0	1965.0	263.1	263.1	410.4	378.7	548.3	494.4	328.0	324.9
7684.2	70°	5202.6	1592.6	269.4	259.9	362.9	359.7	583.2	521.4	377.2	380.3
5644.7	72.5°	3960.2	1207.5	267.8	259.9	315.4	343.9	587.9	538.8	410.4	380.3
3161.5	75°	2250.3	722.6	236.1	226.6	248.8	299.5	549.9	513.4	399.3	340.7
1263.0	77.5°	930.2	372.4	217.1	204.4	206.0	244.0	458.0	478.6	380.3	290.0
421.5	80°	347.0	223.4	174.3	163.2	158.5	179.1	326.4	381.9	324.9	237.7
185.4	82.5°	180.7	139.5	118.9	118.9	107.8	114.1	175.9	253.6	245.6	163.2
74.5	85°	91.9	79.2	68.1	66.6	60.2	53.9	88.7	150.5	141.0	90.3
33.3	87.5°	49.1	44.4	28.5	26.9	22.2	14.3	15.8	30.1	49.1	39.6
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>
2102.9
2323.2
2400.8
2245.5
1972.9
1705.1
1396.1
1177.4
1042.7
969.8
904.9
824.0
721.0
567.3
405.7
269.4
163.2
131.5
174.3
220.3
242.5
187.0
247.2
234.5
213.9
263.1
256.7
309.0
318.5
351.8
337.5
304.3
274.2
217.1
128.4
74.5
28.5
0.0

F REPORT)