

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: P477338

Luminaire Tested: **IFLD-S-SA3B-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477338
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

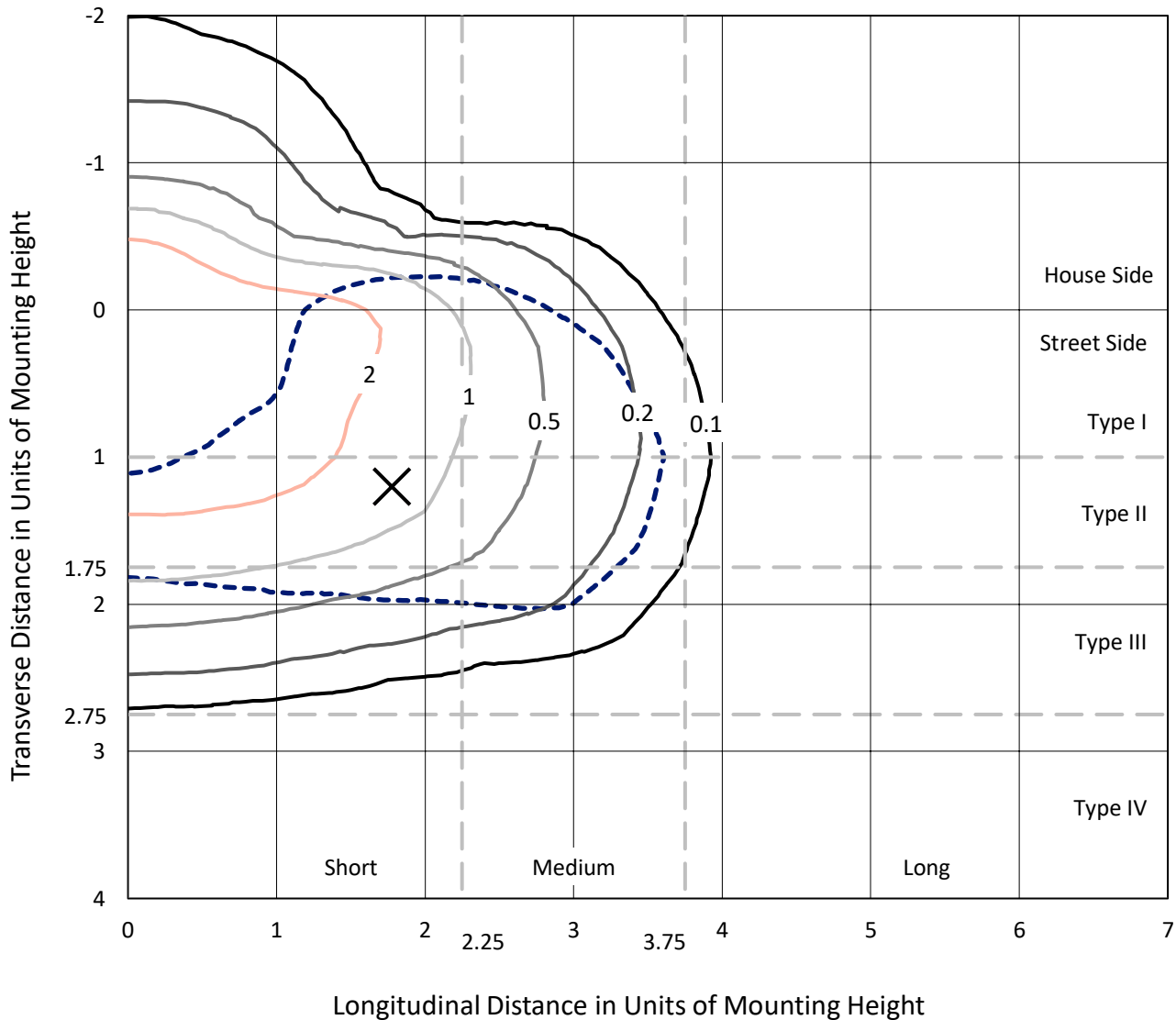
Lumens per Lamp: N/A
Luminaire Lumens: 17093.6 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4
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: P477338
 CATALOG NUMBER: IFLD-S-SA3B-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

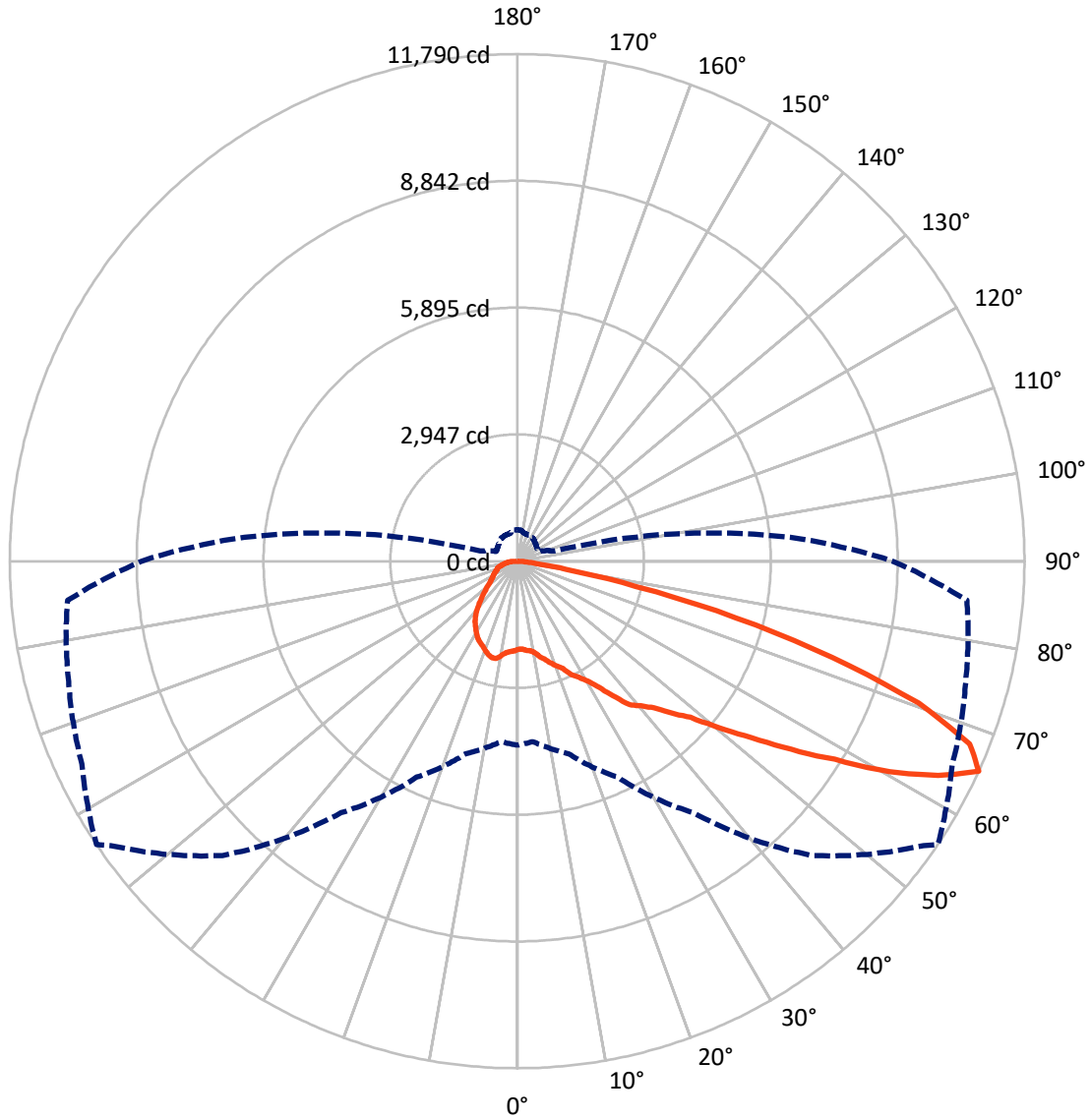
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477338
CATALOG NUMBER: IFLD-S-SA3B-735-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477338
 CATALOG NUMBER: IFLD-S-SA3B-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3833.5	0.0	3833.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	13260.0	0.0	13260.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	17093.6	0.0	17093.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	1.2
10°-20°	660.2	3.9
20°-30°	1175.5	6.9
30°-40°	1760.3	10.3
40°-50°	2608.1	15.3
50°-60°	4018.8	23.5
60°-70°	4549.7	26.6
70°-80°	1888.2	11.0
80°-90°	229.4	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°	17093.6	100.0
0°-180°	17093.6	100.0

Coefficient of Utilization



REPORT NUMBER: P477338

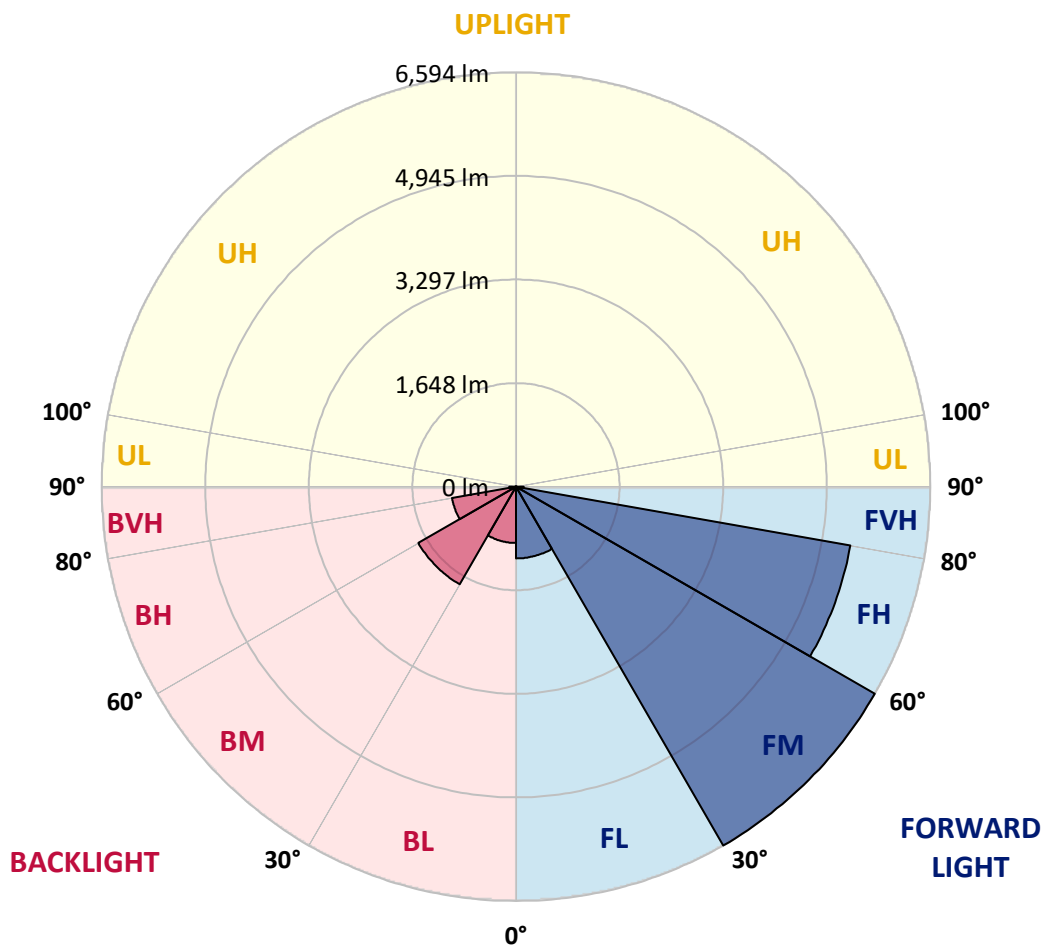
CATALOG NUMBER: IFLD-S-SA3B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1142.3	6.7			
FM (30°-60°)	6594.0	38.6			
FH (60°-80°)	5402.7	31.6			G3/7500
FVH (80°-90°)	121.0	0.7			G2/225
BL (0°-30°)	896.7	5.2	B2/1000		
BM (30°-60°)	1793.3	10.5	B2/2500		
BH (60°-80°)	1035.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	108.4	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: P477338
 CATALOG NUMBER: IFLD-S-SA3B-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7
2.5°	1998.1	2008.8	2001.6	2023.1	2041.0	2041.0	2055.3	2044.6	2058.9	2078.5
5°	2064.2	2021.3	2044.6	2055.3	2049.9	2058.9	2044.6	2080.3	2057.1	2094.6
7.5°	2080.3	2096.4	2116.1	2098.2	2114.3	2105.4	2107.2	2101.8	2089.3	2119.7
10°	2198.4	2175.1	2219.9	2193.0	2189.5	2185.9	2178.7	2151.9	2182.3	2184.1
12.5°	2334.3	2312.9	2311.1	2289.6	2318.2	2266.4	2277.1	2262.8	2268.2	2275.3
15°	2432.7	2423.8	2464.9	2439.9	2402.3	2379.1	2404.1	2364.8	2384.4	2380.8
17.5°	2627.7	2625.9	2595.5	2554.4	2532.9	2498.9	2493.5	2477.4	2491.8	2484.6
20°	2763.6	2783.3	2788.7	2740.4	2658.1	2620.5	2611.6	2599.1	2615.2	2609.8
22.5°	2971.1	2940.7	2964.0	2879.9	2849.5	2760.1	2727.9	2710.0	2786.9	2767.2
25°	3103.5	3135.7	3112.5	3083.8	3015.9	2905.0	2881.7	2921.1	2951.5	2930.0
27.5°	3402.2	3370.0	3348.6	3262.7	3218.0	3101.7	3074.9	3060.6	3067.7	3080.3
30°	3629.4	3647.3	3599.0	3538.2	3425.5	3307.4	3244.8	3232.3	3207.3	3185.8
32.5°	3953.2	3926.3	3897.7	3858.4	3761.8	3606.2	3545.3	3498.8	3423.7	3323.5
35°	4108.8	4185.7	4164.3	4058.7	3985.4	3926.3	3908.5	3836.9	3774.3	3616.9
37.5°	4368.2	4400.4	4370.0	4336.0	4302.0	4239.4	4217.9	4237.6	4114.2	3854.8
40°	4536.3	4604.3	4666.9	4572.1	4564.9	4577.5	4445.1	4421.8	4167.8	4031.9
42.5°	4879.8	4908.4	4920.9	4917.3	4958.5	4958.5	4706.2	4656.2	4475.5	4364.6
45°	5334.1	5357.4	5402.1	5434.3	5387.8	5411.0	5051.5	5031.8	4870.8	4849.3
47.5°	5727.6	5783.1	5883.3	5978.1	6038.9	5960.2	5566.6	5427.1	5386.0	5514.8
50°	6071.1	6004.9	6239.2	6335.8	6602.3	6732.9	6135.5	6080.0	6013.8	6260.7
52.5°	6105.1	6194.5	6525.4	6718.6	7267.8	7509.2	6833.1	6809.8	6729.3	7013.8
55°	6348.3	6337.6	6670.3	7088.9	7741.8	8147.8	7741.8	7727.5	7552.2	7822.3
57.5°	6307.2	6416.3	6679.3	7264.2	8169.3	8832.9	8795.4	8697.0	8451.9	8671.9
60°	6167.7	6196.3	6516.5	7258.8	8417.9	9535.9	9933.0	9952.7	9451.8	9627.1
62.5°	5377.0	5443.2	5849.3	6688.2	8240.9	10020.7	11043.8	10974.1	10573.4	10373.1
65°	4276.9	4210.8	4632.9	5539.8	7139.0	9677.2	11530.4	11789.8	11160.1	10793.4
67.5°	2622.3	2606.2	3012.3	3811.9	5341.3	8235.5	11142.2	11344.4	10997.3	10704.0
70°	1350.5	1309.4	1563.4	2126.8	3357.5	6042.5	9696.9	9895.5	10226.4	9600.3
72.5°	629.6	620.7	756.6	1046.4	1710.1	3552.5	7509.2	7652.3	8350.0	8094.2
75°	370.3	375.6	452.6	547.4	833.6	1674.3	4983.5	5260.8	6017.4	5833.2
77.5°	277.3	277.3	322.0	381.0	486.5	647.5	2459.6	2826.3	3518.5	3164.3
80°	203.9	207.5	246.8	286.2	338.1	334.5	976.7	1144.8	1613.5	1379.1
82.5°	159.2	164.6	191.4	212.9	237.9	202.1	400.7	431.1	663.6	527.7
85°	110.9	114.5	150.3	144.9	144.9	112.7	166.4	175.3	262.9	250.4
87.5°	26.8	30.4	73.3	80.5	60.8	34.0	51.9	59.0	94.8	109.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477338
 CATALOG NUMBER: IFLD-S-SA3B-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2051.7	0°	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7	2051.7
2087.5	2.5°	2060.7	2067.8	2098.2	2082.1	2091.1	2053.5	2083.9	2058.9	2080.3	2069.6
2103.6	5°	2117.9	2101.8	2119.7	2107.2	2107.2	2121.5	2142.9	2126.8	2159.0	2144.7
2116.1	7.5°	2141.2	2142.9	2153.7	2155.5	2146.5	2191.2	2193.0	2187.7	2218.1	2210.9
2202.0	10°	2198.4	2200.2	2219.9	2230.6	2221.6	2237.7	2219.9	2205.6	2203.8	2196.6
2269.9	12.5°	2289.6	2307.5	2303.9	2312.9	2314.7	2246.7	2205.6	2135.8	2126.8	2135.8
2370.1	15°	2373.7	2366.5	2370.1	2388.0	2312.9	2203.8	2130.4	2071.4	2075.0	2076.8
2500.7	17.5°	2473.9	2479.2	2484.6	2402.3	2264.6	2135.8	2071.4	2071.4	2053.5	2060.7
2591.9	20°	2588.3	2566.9	2520.4	2404.1	2180.5	2057.1	2037.4	2037.4	2015.9	2001.6
2690.3	22.5°	2677.8	2634.9	2565.1	2348.7	2105.4	2026.7	1978.4	1944.4	1919.3	1890.7
2799.4	25°	2735.0	2711.8	2575.8	2291.4	2049.9	1946.2	1874.6	1822.8	1790.6	1753.0
2885.3	27.5°	2822.7	2778.0	2606.2	2225.2	1989.1	1865.7	1754.8	1674.3	1613.5	1574.1
3015.9	30°	2940.7	2876.3	2584.8	2130.4	1896.1	1726.2	1595.6	1491.8	1422.1	1389.9
3139.3	32.5°	3037.3	2953.3	2566.9	2044.6	1792.3	1584.8	1411.3	1305.8	1266.4	1225.3
3346.8	35°	3221.6	3055.2	2554.4	1996.3	1699.3	1443.5	1261.1	1169.9	1119.8	1059.0
3470.2	37.5°	3362.9	3232.3	2524.0	1896.1	1579.5	1305.8	1146.6	1064.3	989.2	924.8
3756.4	40°	3584.7	3479.2	2525.7	1754.8	1438.2	1187.7	1057.2	971.3	876.5	821.0
4180.3	42.5°	4001.5	3722.4	2536.5	1642.1	1279.0	1091.1	976.7	874.7	779.9	733.4
4663.3	45°	4513.1	4056.9	2470.3	1540.1	1116.2	999.9	880.1	778.1	717.3	683.3
5319.8	47.5°	5101.6	4384.3	2380.8	1348.7	980.2	903.3	790.6	731.6	686.9	667.2
6165.9	50°	5759.8	4852.9	2355.8	1173.4	874.7	821.0	747.7	703.0	672.6	649.3
7119.3	52.5°	6607.7	5398.5	2305.7	992.8	783.5	754.9	731.6	701.2	674.4	654.7
8008.3	55°	7418.0	6003.1	2252.1	844.3	719.1	722.7	735.2	708.4	685.1	654.7
9004.7	57.5°	8330.3	6620.2	2053.5	735.2	670.8	706.6	731.6	701.2	677.9	654.7
10024.3	60°	8893.8	6967.2	1665.3	640.4	627.9	676.2	710.1	677.9	652.9	661.8
10492.9	62.5°	9122.7	6784.8	1255.7	581.3	597.4	635.0	676.2	663.6	645.7	679.7
10487.5	65°	8732.8	6364.4	898.0	531.3	556.3	593.9	645.7	660.1	665.4	731.6
9632.5	67.5°	7770.4	5541.6	660.1	490.1	513.4	568.8	667.2	690.5	686.9	769.2
8083.4	70°	6217.8	4334.2	515.2	456.1	497.3	588.5	697.6	697.6	672.6	769.2
6165.9	72.5°	4523.8	3055.2	443.6	416.8	456.1	540.2	694.0	692.3	660.1	703.0
3926.3	75°	2738.6	1778.0	391.7	377.4	391.7	463.3	663.6	652.9	608.2	604.6
1888.9	77.5°	1364.8	894.4	320.2	334.5	341.7	388.2	583.1	599.2	538.4	524.1
745.9	80°	576.0	390.0	266.5	288.0	288.0	327.3	484.8	495.5	447.2	420.4
295.1	82.5°	262.9	223.6	227.2	250.4	234.3	254.0	384.6	397.1	363.1	318.4
125.2	85°	110.9	127.0	173.5	196.8	173.5	164.6	264.7	279.0	236.1	196.8
53.7	87.5°	50.1	69.8	109.1	143.1	87.6	76.9	141.3	146.7	118.1	87.6
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>
2051.7
2049.9
2125.1
2200.2
2196.6
2139.4
2101.8
2062.4
1980.2
1874.6
1760.1
1592.0
1407.8
1223.5
1053.6
926.6
826.4
737.0
690.5
663.6
652.9
652.9
652.9
652.9
654.7
670.8
731.6
774.5
753.1
677.9
597.4
515.2
411.4
311.2
198.6
82.3
0.0

F REPORT)