

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: P477318

Luminaire Tested: **IFLD-M-SA4A-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477318
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

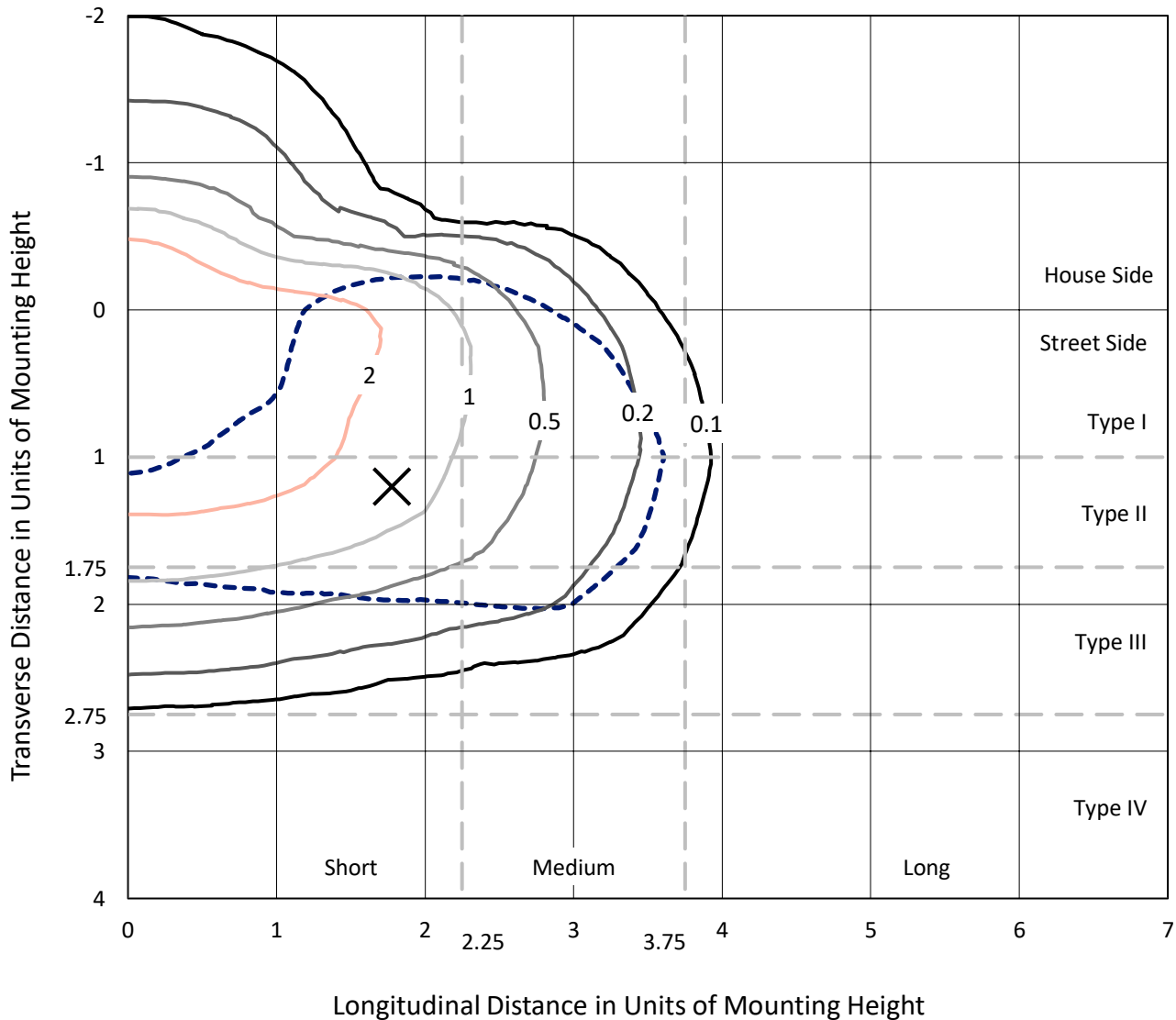
Lumens per Lamp: N/A
Luminaire Lumens: 17127.8 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6
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: P477318
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

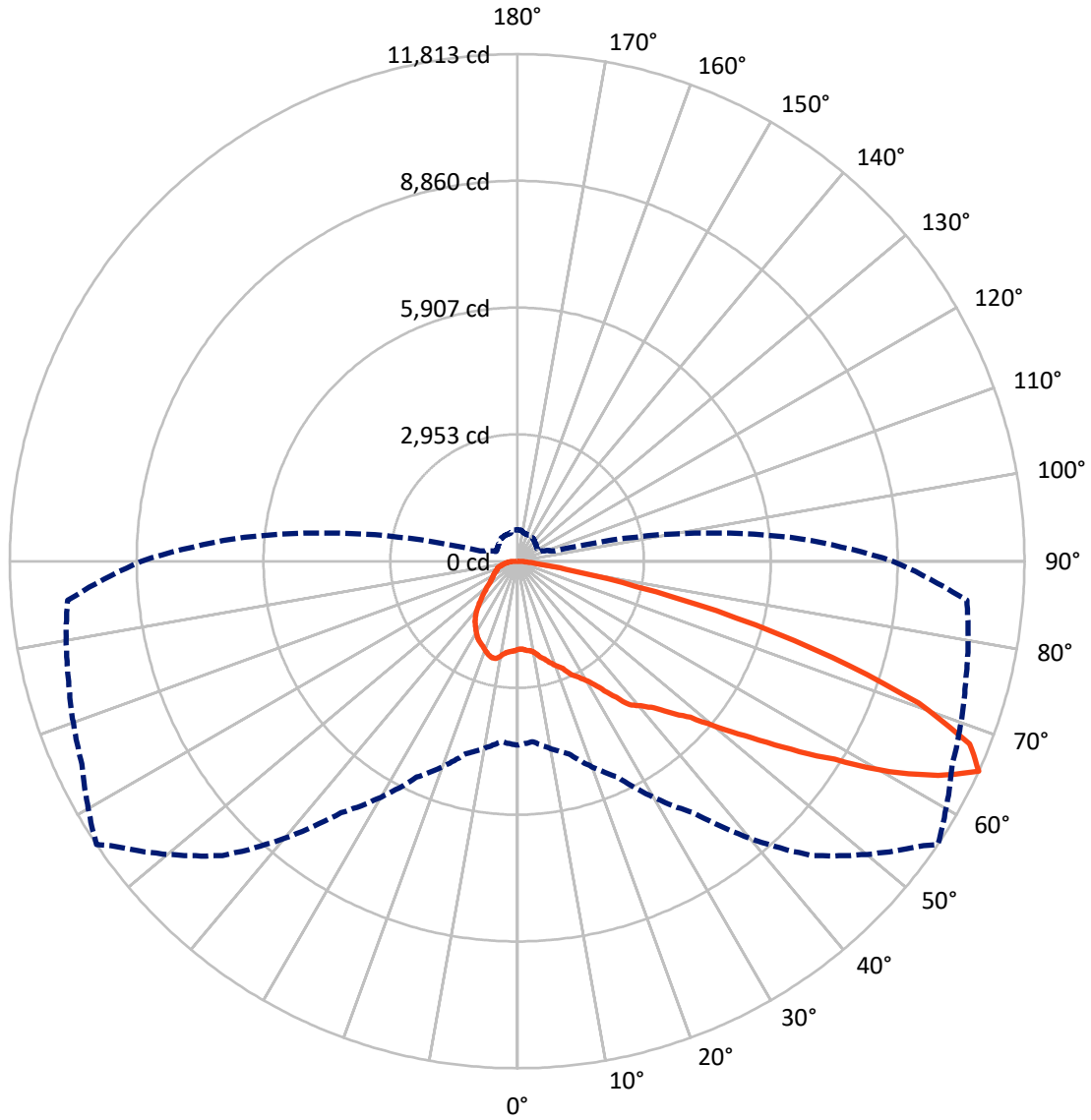
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P477318
CATALOG NUMBER: IFLD-M-SA4A-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477318
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3841.2	0.0	3841.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	13286.6	0.0	13286.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	17127.8	0.0	17127.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	1.2
10°-20°	661.5	3.9
20°-30°	1177.9	6.9
30°-40°	1763.8	10.3
40°-50°	2613.4	15.3
50°-60°	4026.8	23.5
60°-70°	4558.9	26.6
70°-80°	1892.0	11.0
80°-90°	229.9	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°	17127.8	100.0
0°-180°	17127.8	100.0

Coefficient of Utilization

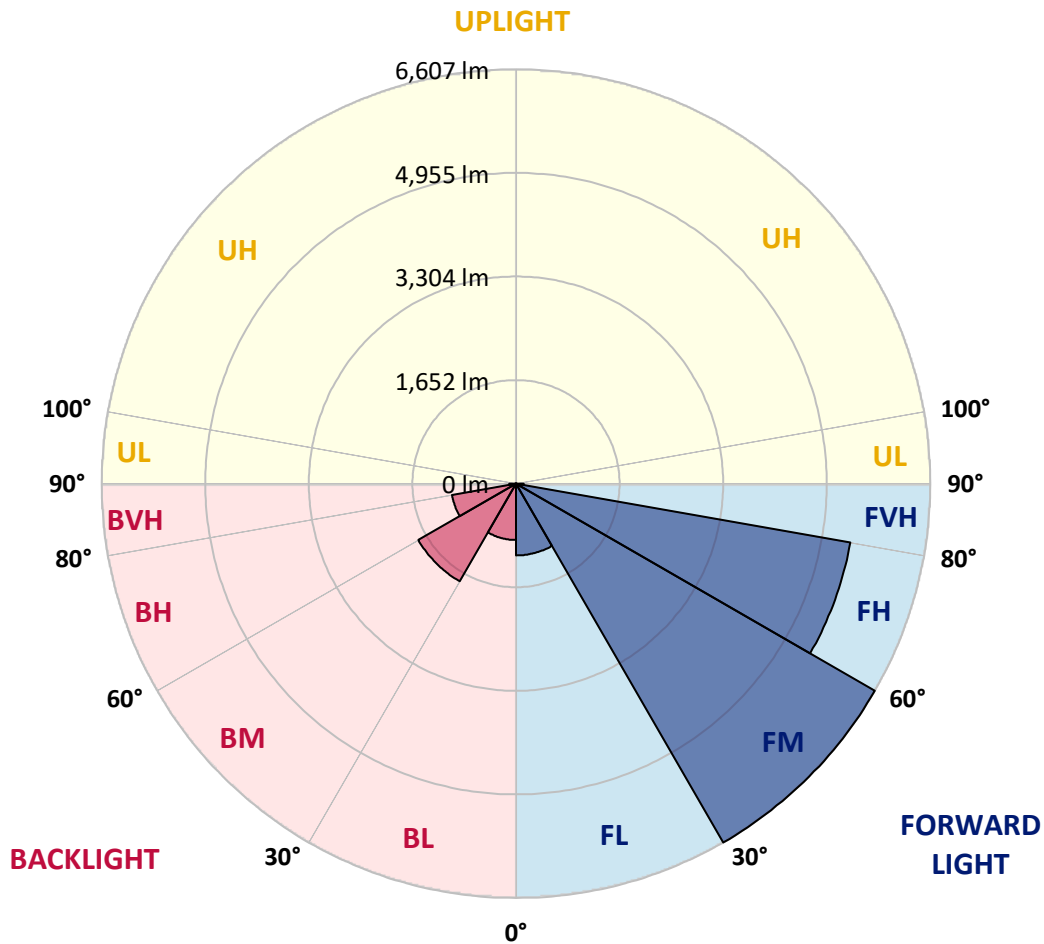


REPORT NUMBER: P477318
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.6	6.7			
FM (30°-60°)	6607.2	38.6			
FH (60°-80°)	5413.6	31.6			G3/7500
FVH (80°-90°)	121.2	0.7			G2/225
BL (0°-30°)	898.5	5.2	B2/1000		
BM (30°-60°)	1796.9	10.5	B2/2500		
BH (60°-80°)	1037.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	108.6	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: P477318
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8
2.5°	2002.1	2012.8	2005.6	2027.2	2045.1	2045.1	2059.4	2048.7	2063.0	2082.7
5°	2068.4	2025.4	2048.7	2059.4	2054.0	2063.0	2048.7	2084.5	2061.2	2098.8
7.5°	2084.5	2100.6	2120.4	2102.4	2118.6	2109.6	2111.4	2106.0	2093.5	2123.9
10°	2202.8	2179.5	2224.3	2197.4	2193.8	2190.3	2183.1	2156.2	2186.7	2188.5
12.5°	2339.0	2317.5	2315.7	2294.2	2322.9	2270.9	2281.7	2267.3	2272.7	2279.9
15°	2437.6	2428.6	2469.9	2444.8	2407.1	2383.8	2408.9	2369.5	2389.2	2385.6
17.5°	2633.0	2631.2	2600.7	2559.5	2538.0	2503.9	2498.5	2482.4	2496.7	2489.6
20°	2769.2	2788.9	2794.3	2745.9	2663.4	2625.8	2616.8	2604.3	2620.4	2615.0
22.5°	2977.1	2946.6	2969.9	2885.7	2855.2	2765.6	2733.3	2715.4	2792.5	2772.8
25°	3109.7	3142.0	3118.7	3090.0	3021.9	2910.8	2887.5	2926.9	2957.4	2935.9
27.5°	3409.1	3376.8	3355.3	3269.3	3224.4	3107.9	3081.1	3066.7	3073.9	3086.4
30°	3636.7	3654.6	3606.2	3545.3	3432.4	3314.1	3251.3	3238.8	3213.7	3192.2
32.5°	3961.1	3934.2	3905.5	3866.1	3769.3	3613.4	3552.4	3505.8	3430.6	3330.2
35°	4117.0	4194.1	4172.6	4066.8	3993.4	3934.2	3916.3	3844.6	3781.9	3624.1
37.5°	4376.9	4409.2	4378.7	4344.7	4310.6	4247.9	4226.4	4246.1	4122.4	3862.5
40°	4545.4	4613.5	4676.2	4581.3	4574.1	4586.6	4454.0	4430.7	4176.2	4040.0
42.5°	4889.5	4918.2	4930.8	4927.2	4968.4	4968.4	4715.7	4665.5	4484.5	4373.3
45°	5344.8	5368.1	5412.9	5445.2	5398.6	5421.9	5061.6	5041.9	4880.6	4859.1
47.5°	5739.1	5794.7	5895.0	5990.0	6051.0	5972.1	5577.8	5438.0	5396.8	5525.8
50°	6083.2	6016.9	6251.7	6348.5	6615.6	6746.4	6147.8	6092.2	6025.9	6273.2
52.5°	6117.3	6206.9	6538.5	6732.1	7282.3	7524.3	6846.8	6823.5	6742.8	7027.8
55°	6361.1	6350.3	6683.7	7103.1	7757.3	8164.2	7757.3	7743.0	7567.3	7838.0
57.5°	6319.8	6429.2	6692.6	7278.7	8185.7	8850.6	8813.0	8714.4	8468.9	8689.3
60°	6180.0	6208.7	6529.5	7273.4	8434.8	9555.0	9952.9	9972.6	9470.8	9646.4
62.5°	5387.8	5454.1	5861.0	6701.6	8257.4	10040.8	11066.0	10996.1	10594.6	10393.9
65°	4285.5	4219.2	4642.2	5550.9	7153.3	9696.6	11553.5	11813.4	11182.5	10815.1
67.5°	2627.6	2611.5	3018.3	3819.5	5352.0	8252.0	11164.6	11367.1	11019.4	10725.4
70°	1353.2	1312.0	1566.5	2131.1	3364.2	6054.6	9716.3	9915.3	10246.9	9619.6
72.5°	630.9	621.9	758.2	1048.5	1713.5	3559.6	7524.3	7667.7	8366.7	8110.4
75°	371.0	376.4	453.5	548.5	835.2	1677.6	4993.5	5271.3	6029.5	5844.9
77.5°	277.8	277.8	322.6	381.8	487.5	648.8	2464.5	2831.9	3525.6	3170.7
80°	204.3	207.9	247.3	286.8	338.8	335.2	978.6	1147.1	1616.7	1381.9
82.5°	159.5	164.9	191.8	213.3	238.4	202.5	401.5	432.0	665.0	528.7
85°	111.1	114.7	150.6	145.2	145.2	112.9	166.7	175.7	263.5	250.9
87.5°	26.9	30.5	73.5	80.7	60.9	34.1	52.0	59.1	95.0	109.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477318

CATALOG NUMBER: IFLD-M-SA4A-730-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2055.8	0°	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8
2091.7	2.5°	2064.8	2072.0	2102.4	2086.3	2095.3	2057.6	2088.1	2063.0	2084.5	2073.8
2107.8	5°	2122.1	2106.0	2123.9	2111.4	2111.4	2125.7	2147.2	2131.1	2163.4	2149.0
2120.4	7.5°	2145.4	2147.2	2158.0	2159.8	2150.8	2195.6	2197.4	2192.0	2222.5	2215.3
2206.4	10°	2202.8	2204.6	2224.3	2235.1	2226.1	2242.2	2224.3	2210.0	2208.2	2201.0
2274.5	12.5°	2294.2	2312.1	2308.6	2317.5	2319.3	2251.2	2210.0	2140.1	2131.1	2140.1
2374.9	15°	2378.5	2371.3	2374.9	2392.8	2317.5	2208.2	2134.7	2075.5	2079.1	2080.9
2505.7	17.5°	2478.8	2484.2	2489.6	2407.1	2269.1	2140.1	2075.5	2075.5	2057.6	2064.8
2597.1	20°	2593.5	2572.0	2525.4	2408.9	2184.9	2061.2	2041.5	2041.5	2020.0	2005.6
2695.7	22.5°	2683.2	2640.1	2570.2	2353.4	2109.6	2030.7	1982.3	1948.3	1923.2	1894.5
2805.0	25°	2740.5	2717.2	2581.0	2296.0	2054.0	1950.1	1878.4	1826.4	1794.1	1756.5
2891.1	27.5°	2828.3	2783.5	2611.5	2229.7	1993.1	1869.4	1758.3	1677.6	1616.7	1577.3
3021.9	30°	2946.6	2882.1	2589.9	2134.7	1899.9	1729.6	1598.8	1494.8	1424.9	1392.7
3145.6	32.5°	3043.4	2959.2	2572.0	2048.7	1795.9	1588.0	1414.2	1308.4	1269.0	1227.8
3353.5	35°	3228.0	3061.3	2559.5	2000.3	1702.7	1446.4	1263.6	1172.2	1122.0	1061.1
3477.2	37.5°	3369.6	3238.8	2529.0	1899.9	1582.6	1308.4	1148.9	1066.4	991.2	926.6
3763.9	40°	3591.9	3486.1	2530.8	1758.3	1441.1	1190.1	1059.3	973.2	878.3	822.7
4188.7	42.5°	4009.5	3729.9	2541.6	1645.4	1281.5	1093.3	978.6	876.5	781.5	734.9
4672.7	45°	4522.1	4065.1	2475.2	1543.2	1118.4	1001.9	881.8	779.7	718.7	684.7
5330.5	47.5°	5111.8	4393.1	2385.6	1351.4	982.2	905.1	792.2	733.1	688.3	668.5
6178.2	50°	5771.4	4862.7	2360.5	1175.8	876.5	822.7	749.2	704.4	673.9	650.6
7133.6	52.5°	6621.0	5409.3	2310.3	994.8	785.1	756.4	733.1	702.6	675.7	656.0
8024.4	55°	7432.9	6015.1	2256.6	846.0	720.5	724.1	736.7	709.8	686.5	656.0
9022.7	57.5°	8347.0	6633.5	2057.6	736.7	672.1	708.0	733.1	702.6	679.3	656.0
10044.3	60°	8911.6	6981.2	1668.7	641.7	629.1	677.5	711.6	679.3	654.2	663.2
10513.9	62.5°	9141.0	6798.4	1258.2	582.5	598.6	636.3	677.5	665.0	647.0	681.1
10508.6	65°	8750.3	6377.2	899.8	532.3	557.4	595.1	647.0	661.4	666.8	733.1
9651.8	67.5°	7786.0	5552.7	661.4	491.1	514.4	570.0	668.5	691.8	688.3	770.7
8099.6	70°	6230.2	4342.9	516.2	457.0	498.3	589.7	699.0	699.0	673.9	770.7
6178.2	72.5°	4532.9	3061.3	444.5	417.6	457.0	541.3	695.4	693.6	661.4	704.4
3934.2	75°	2744.1	1781.6	392.5	378.2	392.5	464.2	665.0	654.2	609.4	605.8
1892.7	77.5°	1367.6	896.2	320.8	335.2	342.3	388.9	584.3	600.4	539.5	525.2
747.4	80°	577.1	390.7	267.1	288.6	288.6	328.0	485.7	496.5	448.1	421.2
295.7	82.5°	263.5	224.0	227.6	250.9	234.8	254.5	385.4	397.9	363.8	319.0
125.5	85°	111.1	127.3	173.9	197.2	173.9	164.9	265.3	279.6	236.6	197.2
53.8	87.5°	50.2	69.9	109.3	143.4	87.8	77.1	141.6	147.0	118.3	87.8
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>
2055.8
2054.0
2129.3
2204.6
2201.0
2143.7
2106.0
2066.6
1984.1
1878.4
1763.7
1595.2
1410.6
1226.0
1055.7
928.4
828.1
738.4
691.8
665.0
654.2
654.2
654.2
654.2
656.0
672.1
733.1
776.1
754.6
679.3
598.6
516.2
412.2
311.9
199.0
82.4
0.0

F REPORT)