

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: P477685

Luminaire Tested: **IFLD-S-SA2C-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477685
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

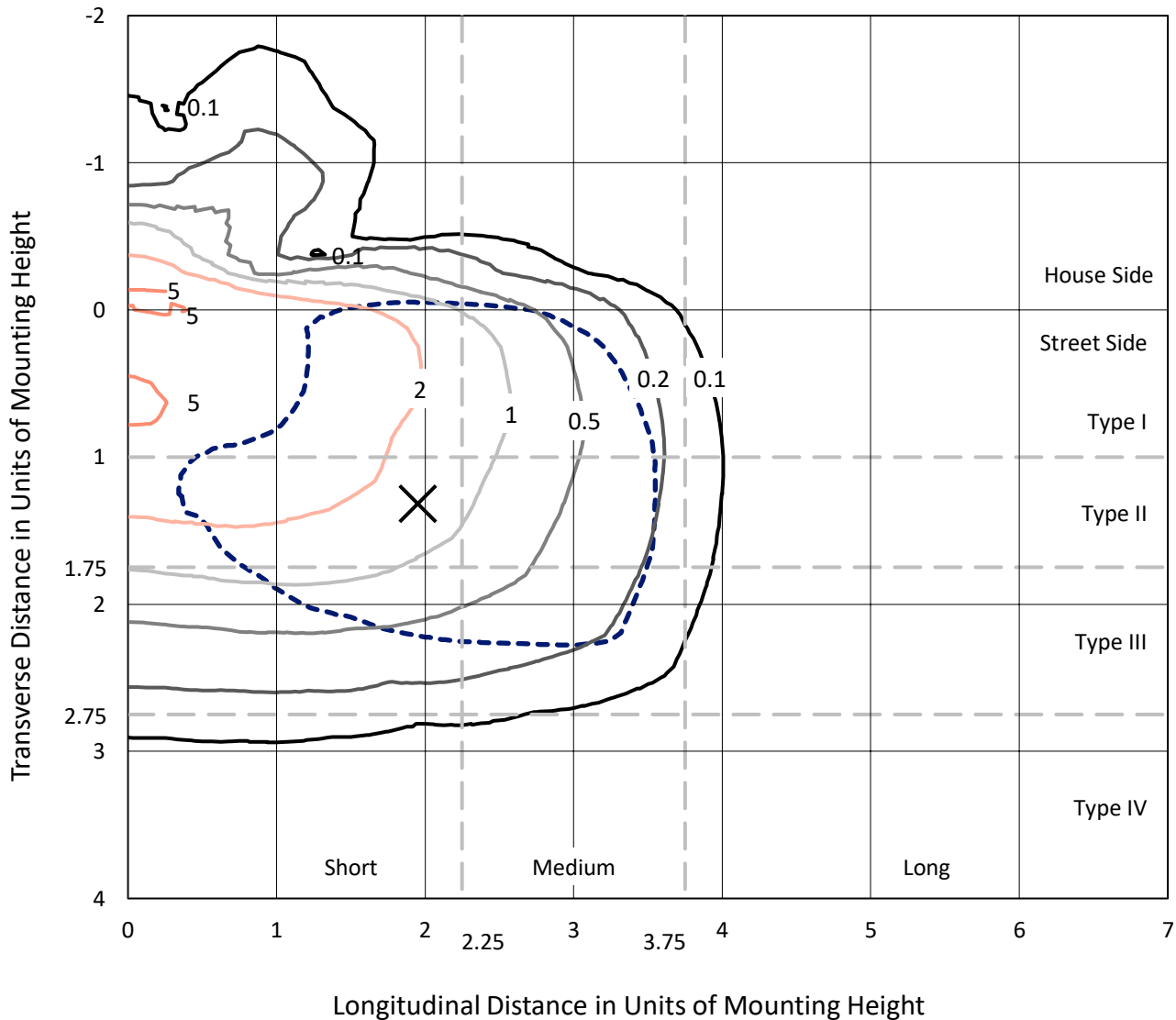
Lumens per Lamp: N/A
Luminaire Lumens: 12713.6 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (A_{in}): 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: P477685
 CATALOG NUMBER: IFLD-S-SA2C-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

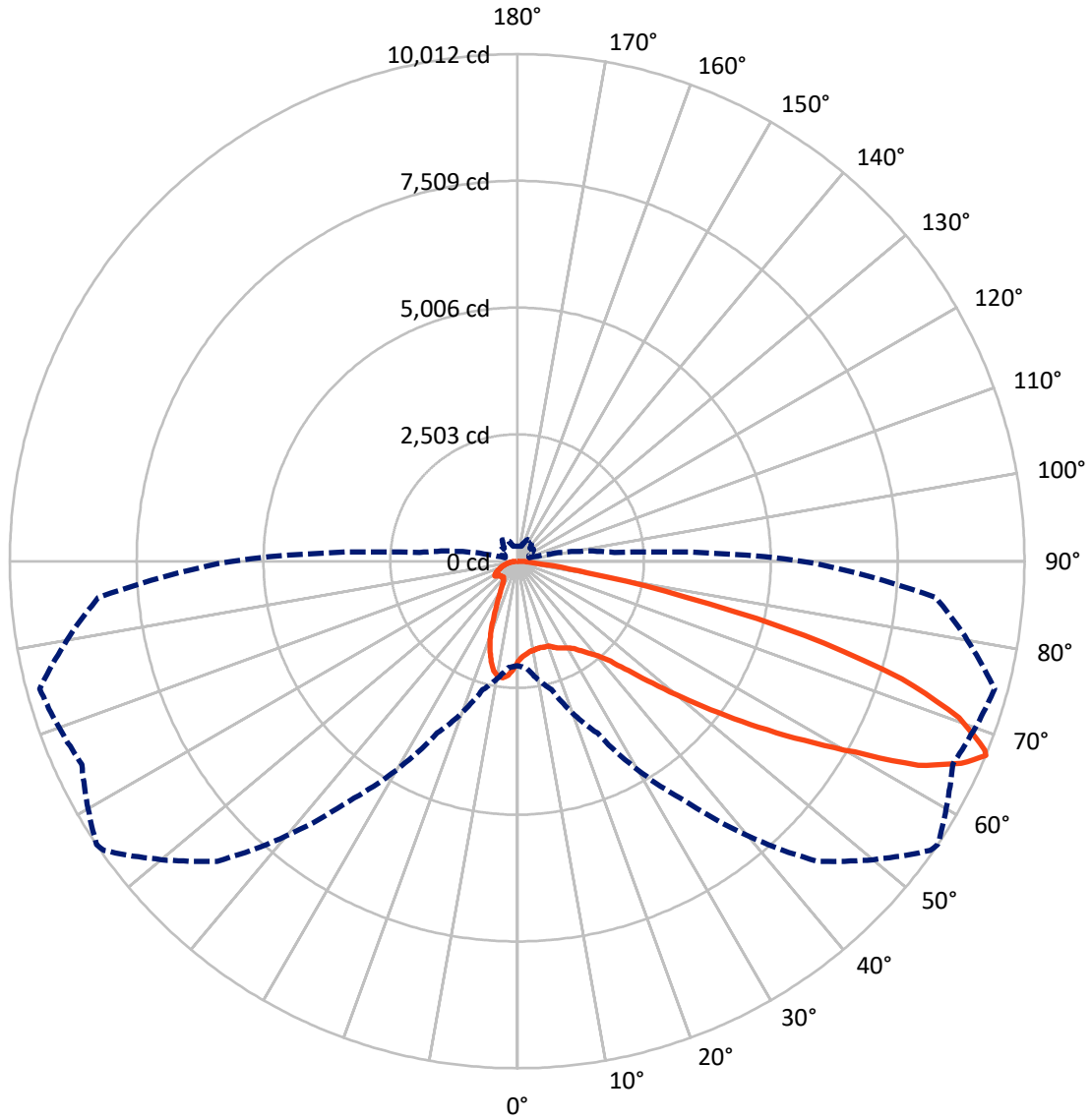
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

REPORT NUMBER: P477685
CATALOG NUMBER: IFLD-S-SA2C-730-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477685
 CATALOG NUMBER: IFLD-S-SA2C-730-U-T3R

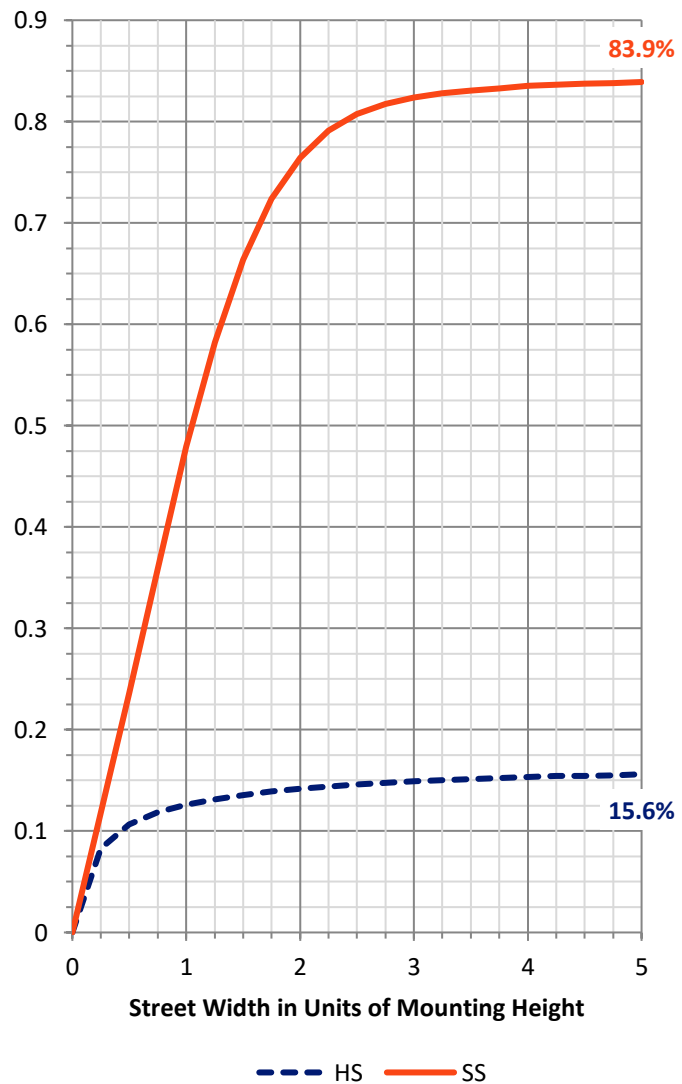
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2012.7	0.0	2012.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	10700.9	0.0	10700.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	12713.6	0.0	12713.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.5
10°-20°	519.9	4.1
20°-30°	815.4	6.4
30°-40°	1164.0	9.2
40°-50°	1756.7	13.8
50°-60°	2796.4	22.0
60°-70°	3575.0	28.1
70°-80°	1743.1	13.7
80°-90°	152.5	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°	12713.6	100.0
0°-180°	12713.6	100.0

Coefficient of Utilization

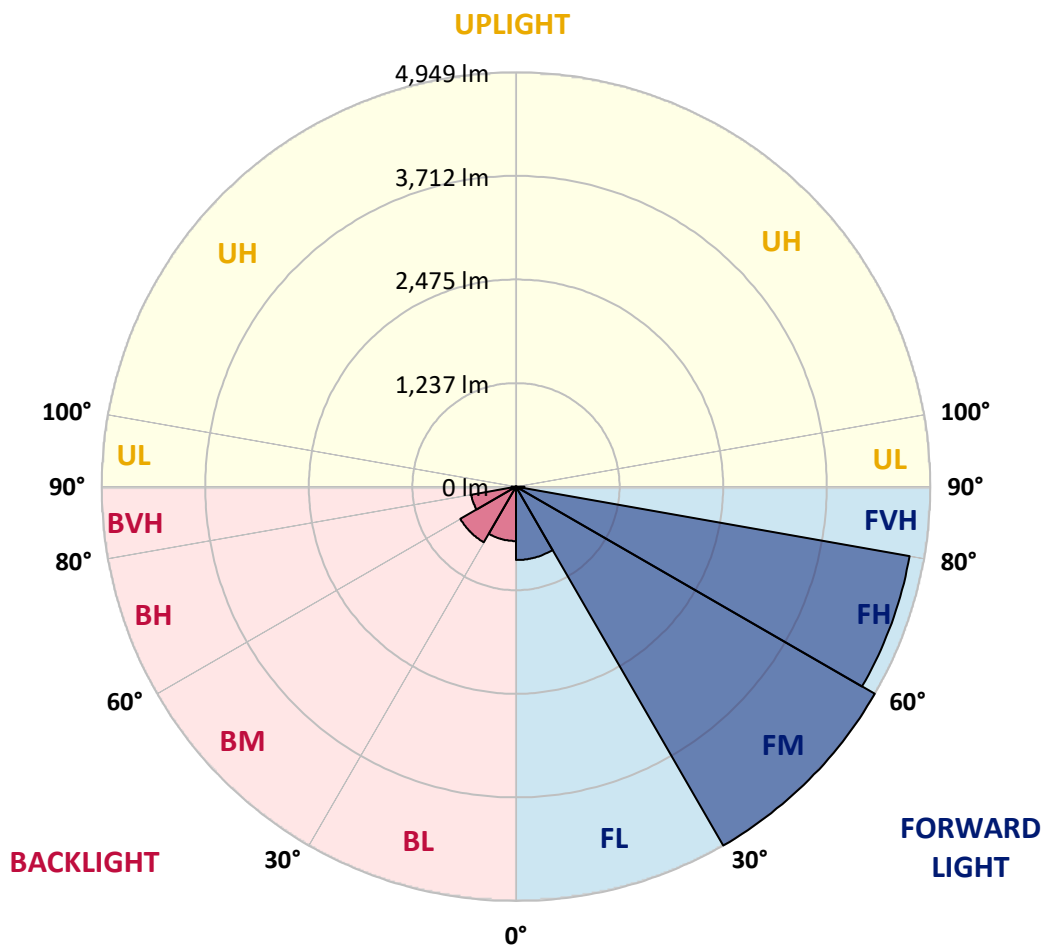


REPORT NUMBER: P477685
 CATALOG NUMBER: IFLD-S-SA2C-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.1	6.9			
FM (30°-60°)	4949.3	38.9			
FH (60°-80°)	4774.2	37.6			G2/5000
FVH (80°-90°)	101.3	0.8			G2/225
BL (0°-30°)	649.8	5.1	B2/1000		
BM (30°-60°)	767.9	6.0	B1/1000		
BH (60°-80°)	543.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	51.2	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-G2
 Type III Short





REPORT NUMBER: P477685
 CATALOG NUMBER: IFLD-S-SA2C-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2
2.5°	1817.2	1809.7	1818.7	1809.7	1850.0	1873.9	1881.3	1891.7	1929.0	1964.8
5°	1741.2	1708.4	1744.2	1756.1	1759.1	1799.3	1841.1	1848.5	1867.9	1926.0
7.5°	1614.5	1651.7	1638.3	1674.1	1711.4	1751.6	1820.2	1800.8	1872.4	1927.5
10°	1587.6	1590.6	1605.5	1618.9	1651.7	1703.9	1799.3	1787.4	1860.4	1978.2
12.5°	1614.5	1614.5	1610.0	1599.6	1636.8	1687.5	1763.5	1769.5	1884.3	1993.1
15°	1708.4	1726.3	1678.6	1686.0	1671.1	1687.5	1754.6	1768.0	1893.2	2005.0
17.5°	1938.0	1932.0	1875.3	1796.3	1730.7	1720.3	1766.5	1781.4	1884.3	2039.3
20°	2161.6	2149.6	2051.2	1969.3	1839.6	1778.4	1785.9	1787.4	1899.2	2061.7
22.5°	2410.5	2441.8	2334.5	2167.5	2006.5	1854.5	1824.7	1848.5	1933.5	2073.6
25°	2801.1	2734.0	2641.6	2422.4	2163.1	1972.2	1888.8	1900.7	1966.3	2103.4
27.5°	3082.8	3056.0	2911.4	2734.0	2382.2	2064.7	1923.0	1945.4	2025.9	2101.9
30°	3354.1	3354.1	3266.2	3000.8	2613.3	2219.7	1996.1	1985.7	1997.6	2099.0
32.5°	3671.7	3628.4	3501.7	3325.8	2903.9	2361.3	2054.2	2057.2	2057.2	2154.1
35°	3838.6	3908.7	3823.7	3537.5	3126.1	2596.9	2194.4	2172.0	2155.6	2215.2
37.5°	4083.1	4124.9	4035.4	3867.0	3401.9	2787.7	2318.1	2300.2	2204.8	2262.9
40°	4230.7	4223.2	4220.3	4142.7	3767.1	3012.8	2500.0	2453.7	2325.5	2431.4
42.5°	4314.2	4299.3	4482.6	4434.9	4111.4	3343.7	2728.0	2702.7	2561.1	2731.0
45°	4408.1	4518.4	4669.0	4803.1	4512.4	3808.8	3114.1	3078.4	2951.7	3167.8
47.5°	4490.1	4625.7	4818.0	4961.2	4874.7	4314.2	3591.2	3600.1	3516.6	3738.8
50°	4627.2	4640.6	4901.5	5190.7	5257.8	4780.8	4232.2	4217.3	4180.0	4491.6
52.5°	4585.5	4625.7	4955.2	5324.9	5435.2	5274.2	4920.9	4965.6	4916.4	5308.5
55°	3905.7	4026.5	4922.4	5466.5	5855.6	5831.7	5806.4	5776.6	5773.6	6226.8
57.5°	3597.1	3695.5	4336.5	5623.0	6305.8	6481.7	6645.7	6678.5	6677.0	7224.1
60°	3394.4	3495.8	4099.5	5538.1	6688.9	7332.9	7647.5	7651.9	7643.0	8290.0
62.5°	2997.9	3096.3	3689.6	5073.0	6794.8	8118.5	8819.2	8877.3	8467.4	9208.3
65°	2520.8	2601.3	3124.6	4361.9	6513.0	8617.9	9700.2	9631.6	9162.0	9733.0
67°	2061.7	2115.3	2625.2	3744.7	5776.6	8377.9	9955.1	10011.8	9482.5	9755.4
67.5°	1930.5	1979.7	2461.2	3534.5	5496.3	8196.0	9964.1	9955.1	9488.5	9759.8
70°	1340.2	1361.0	1677.1	2431.4	4048.8	6924.5	9236.6	9257.4	9090.5	9230.6
72.5°	888.5	919.8	1121.0	1532.5	2386.7	5038.7	7720.5	7944.1	7838.3	7568.4
75°	572.4	590.3	733.4	912.3	1174.7	2869.7	5703.5	5852.6	5609.6	4680.9
77.5°	320.5	339.9	442.7	554.6	572.4	1194.1	3203.6	3388.4	2871.2	1988.6
80°	199.8	225.1	333.9	329.5	272.8	438.3	1320.8	1414.7	1147.9	684.2
82.5°	150.6	169.9	257.9	231.1	153.5	195.3	494.9	530.7	420.4	263.9
85°	102.9	129.7	186.3	143.1	80.5	93.9	196.8	211.7	192.3	128.2
87.5°	37.3	55.2	96.9	71.6	35.8	28.3	64.1	71.6	68.6	58.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477685
 CATALOG NUMBER: IFLD-S-SA2C-730-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1978.2	0°	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2
1996.1	2.5°	2024.4	2045.3	2055.7	2116.8	2142.2	2137.7	2143.7	2152.6	2161.6	2173.5
2021.4	5°	2040.8	2104.9	2139.2	2210.8	2258.5	2237.6	2264.4	2257.0	2246.5	2245.0
2067.6	7.5°	2094.5	2176.5	2279.3	2298.7	2319.6	2267.4	2222.7	2161.6	2146.7	2094.5
2106.4	10°	2189.9	2257.0	2382.2	2389.6	2297.2	2163.1	2063.2	1936.5	1935.0	1858.9
2166.0	12.5°	2280.8	2356.8	2458.2	2415.0	2194.4	2011.0	1848.5	1709.9	1651.7	1613.0
2201.8	15°	2337.5	2462.7	2516.4	2330.0	2014.0	1766.5	1556.3	1407.3	1347.6	1319.3
2246.5	17.5°	2389.6	2564.1	2540.2	2180.9	1791.9	1514.6	1264.1	1134.4	1118.0	1097.2
2318.1	20°	2461.2	2601.3	2455.2	1987.1	1539.9	1189.6	1030.1	967.5	982.4	991.3
2325.5	22.5°	2528.3	2620.7	2347.9	1775.5	1216.4	942.1	863.1	876.6	898.9	928.7
2343.4	25°	2558.1	2652.0	2203.3	1483.3	925.7	793.1	775.2	797.5	834.8	836.3
2368.8	27.5°	2577.5	2629.7	2028.9	1198.5	731.9	693.2	720.0	736.4	740.9	758.8
2422.4	30°	2611.8	2583.4	1808.3	857.2	614.2	615.7	650.0	650.0	650.0	663.4
2476.1	32.5°	2671.4	2552.1	1550.4	626.1	529.2	576.9	568.0	565.0	559.0	542.6
2544.7	35°	2708.7	2467.2	1223.9	463.6	475.5	529.2	526.2	480.0	402.5	363.7
2719.1	37.5°	2786.2	2423.9	900.4	357.8	444.2	505.4	489.0	377.2	292.2	254.9
2935.3	40°	2953.1	2395.6	623.1	313.1	423.4	493.4	436.8	322.0	223.6	158.0
3269.2	42.5°	3157.4	2397.1	423.4	295.2	424.9	518.8	420.4	275.8	158.0	126.7
3714.9	45°	3431.7	2374.7	290.7	295.2	451.7	560.5	430.8	250.4	153.5	161.0
4273.9	47.5°	3726.8	2394.1	216.2	268.3	456.2	562.0	393.6	246.0	147.6	186.3
4882.1	50°	4071.2	2413.5	178.9	247.5	457.7	544.1	362.2	240.0	153.5	196.8
5579.8	52.5°	4426.0	2474.6	152.1	234.0	475.5	536.7	362.2	249.0	153.5	171.4
6468.3	55°	4955.2	2631.1	219.1	292.2	541.1	585.9	445.7	348.8	214.7	220.6
7319.5	57.5°	5539.6	2792.1	244.5	307.1	556.0	527.7	480.0	384.6	226.6	228.1
7981.4	60°	5924.2	2798.1	243.0	299.6	520.3	456.2	469.6	405.5	231.1	195.3
8391.3	62.5°	6077.7	2616.2	253.4	299.6	484.5	426.3	481.5	436.8	238.5	244.5
8507.6	65°	5903.3	2240.6	244.5	268.3	426.3	381.6	484.5	442.7	260.9	246.0
8298.9	67°	5630.5	1930.5	249.0	254.9	396.5	362.2	509.8	465.1	302.6	295.2
8190.1	67.5°	5553.0	1848.5	247.5	247.5	386.1	356.3	515.8	465.1	308.6	305.6
7228.6	70°	4894.1	1498.2	253.4	244.5	341.4	338.4	548.6	490.5	354.8	357.8
5310.0	72.5°	3725.3	1135.9	251.9	244.5	296.7	323.5	553.1	506.8	386.1	357.8
2974.0	75°	2116.8	679.8	222.1	213.2	234.0	281.7	517.3	483.0	375.7	320.5
1188.1	77.5°	875.1	350.3	204.2	192.3	193.8	229.6	430.8	450.2	357.8	272.8
396.5	80°	326.5	210.2	164.0	153.5	149.1	168.5	307.1	359.3	305.6	223.6
174.4	82.5°	169.9	131.2	111.8	111.8	101.4	107.3	165.5	238.5	231.1	153.5
70.1	85°	86.5	74.5	64.1	62.6	56.6	50.7	83.5	141.6	132.7	85.0
31.3	87.5°	46.2	41.7	26.8	25.3	20.9	13.4	14.9	28.3	46.2	37.3
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°
1978.2
2185.4
2258.5
2112.4
1856.0
1604.0
1313.3
1107.6
980.9
912.3
851.2
775.2
678.3
533.7
381.6
253.4
153.5
123.7
164.0
207.2
228.1
175.9
232.6
220.6
201.2
247.5
241.5
290.7
299.6
330.9
317.5
286.2
257.9
204.2
120.7
70.1
26.8
0.0

F REPORT)