

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: P477649

Luminaire Tested: **IFLD-S-SA3A-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477649
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

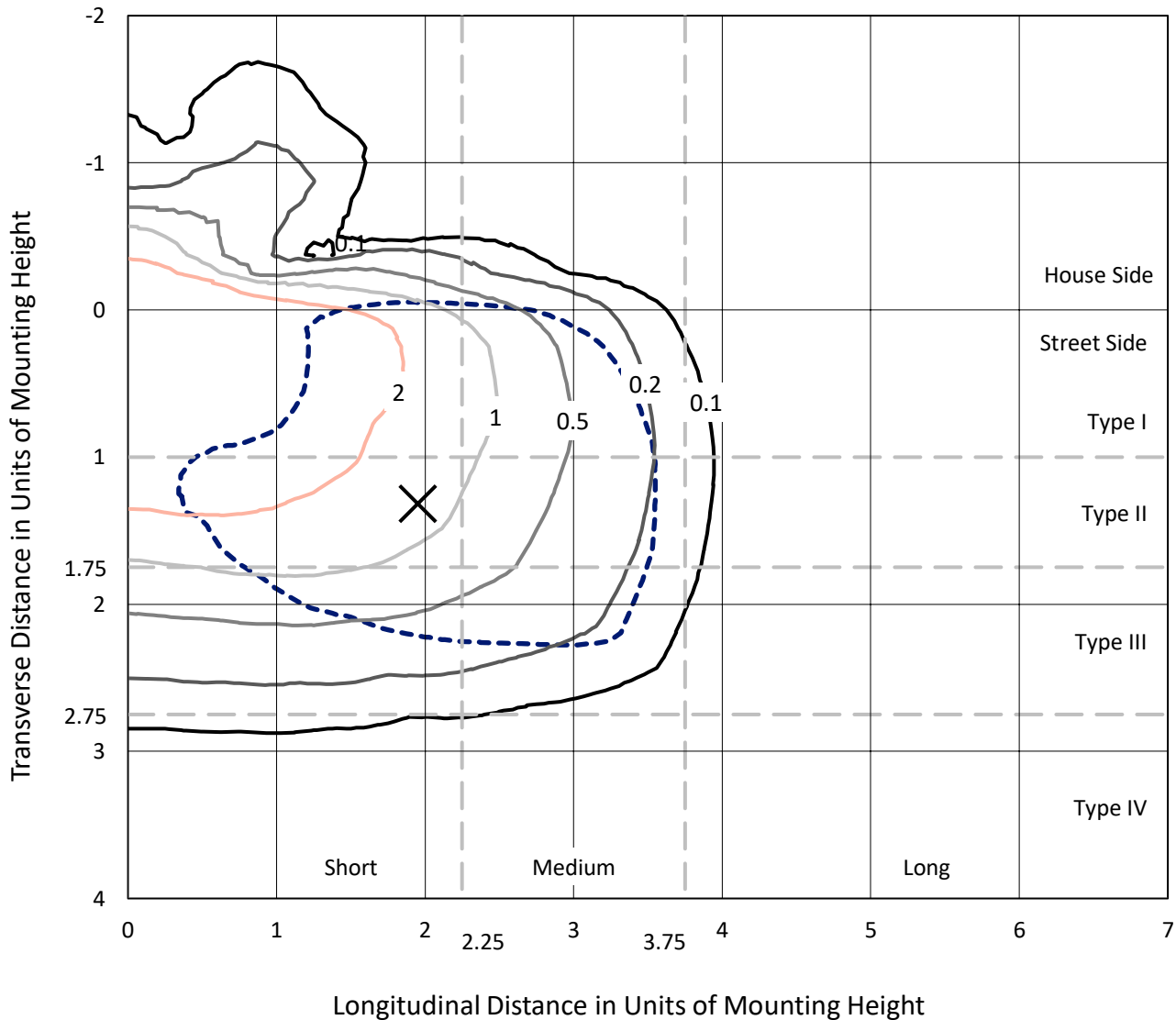
Lumens per Lamp: N/A
Luminaire Lumens: 11302.6 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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: P477649
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

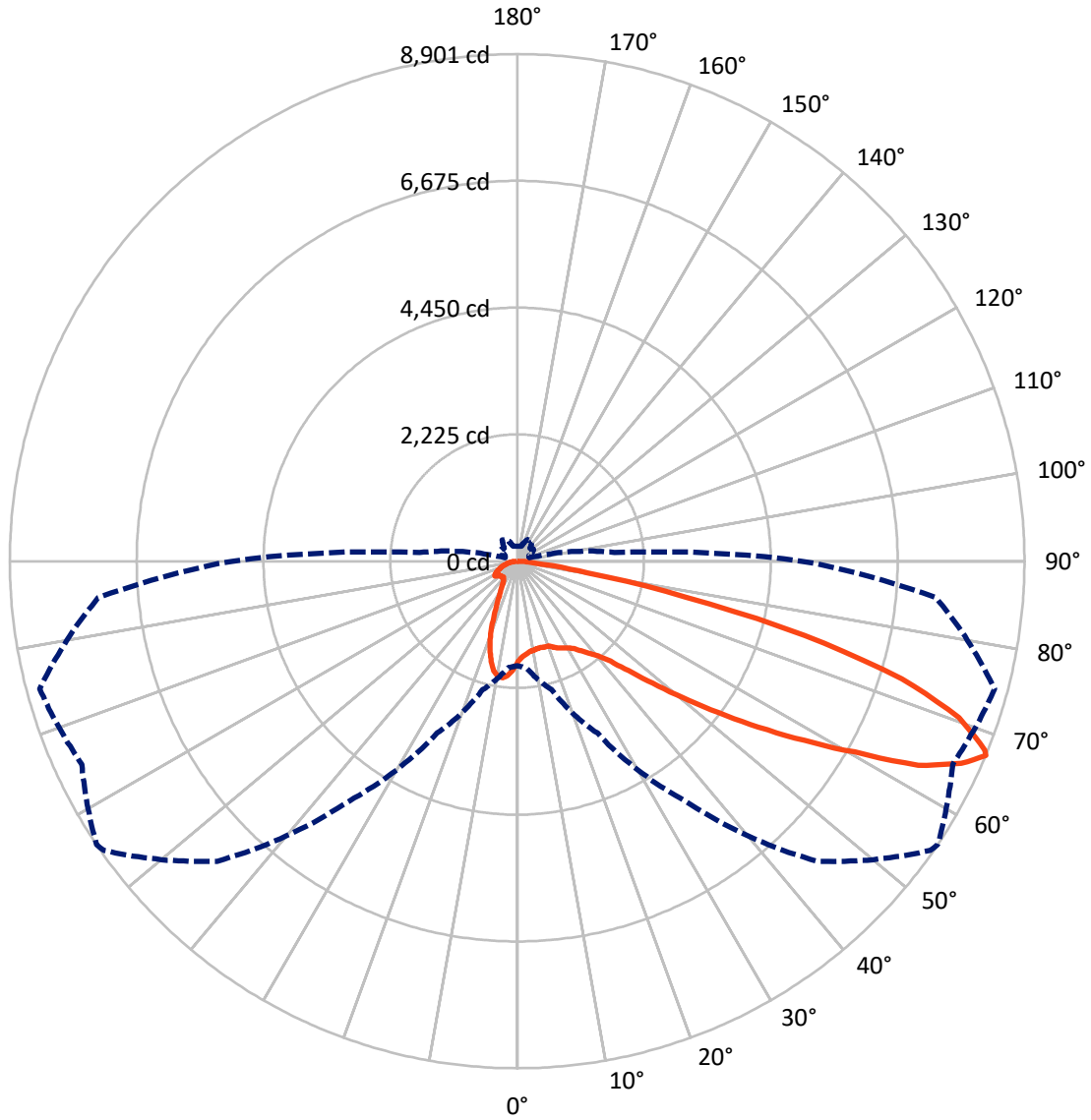
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

REPORT NUMBER: P477649
CATALOG NUMBER: IFLD-S-SA3A-727-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477649
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1789.3	0.0	1789.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	9513.2	0.0	9513.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	11302.6	0.0	11302.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	1.5
10°-20°	462.2	4.1
20°-30°	724.9	6.4
30°-40°	1034.8	9.2
40°-50°	1561.8	13.8
50°-60°	2486.1	22.0
60°-70°	3178.3	28.1
70°-80°	1549.6	13.7
80°-90°	135.6	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°	11302.6	100.0
0°-180°	11302.6	100.0

Coefficient of Utilization

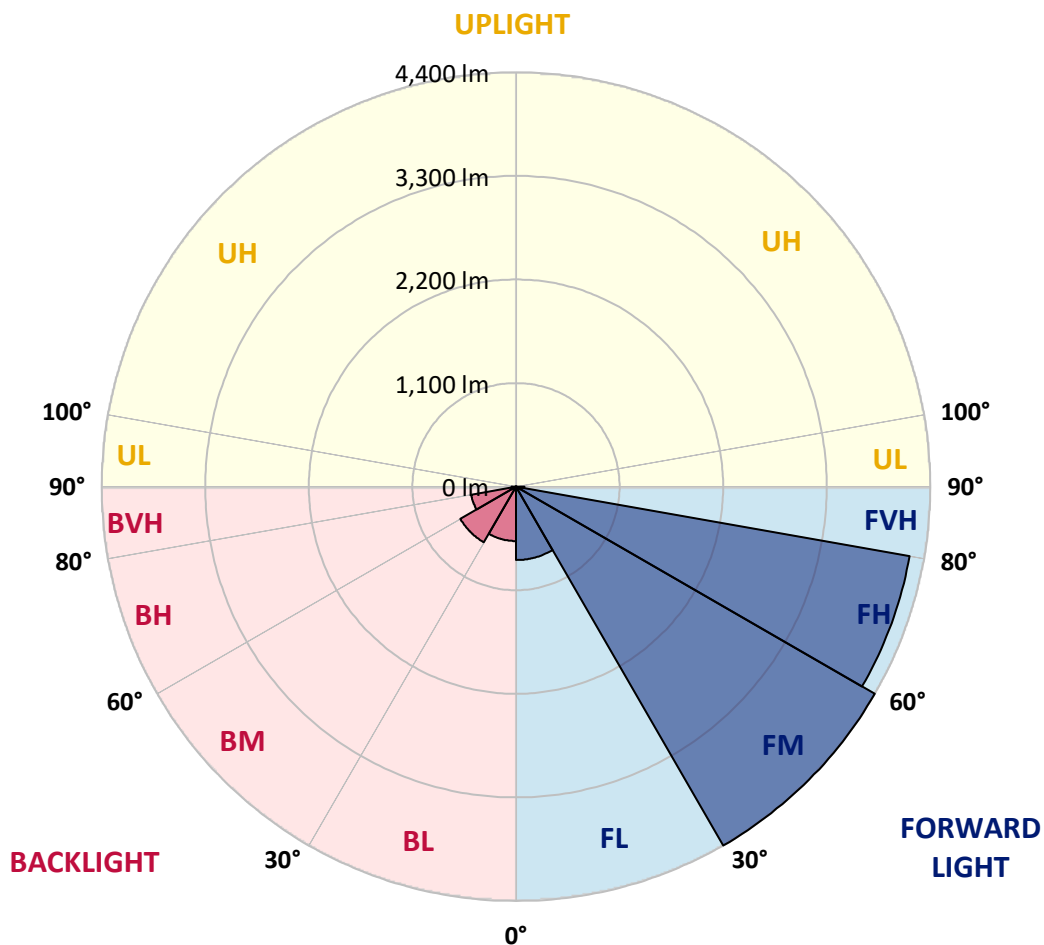


REPORT NUMBER: P477649
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.9	6.9			
FM (30°-60°)	4400.0	38.9			
FH (60°-80°)	4244.4	37.6			G2/5000
FVH (80°-90°)	90.0	0.8			G1/100
BL (0°-30°)	577.6	5.1	B2/1000		
BM (30°-60°)	682.6	6.0	B1/1000		
BH (60°-80°)	483.5	4.3	B1/500		G1/500
BVH (80°-90°)	45.5	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: P477649
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6
2.5°	1615.5	1608.9	1616.8	1608.9	1644.7	1665.9	1672.5	1681.8	1714.9	1746.7
5°	1547.9	1518.8	1550.6	1561.2	1563.8	1599.6	1636.7	1643.3	1660.6	1712.3
7.5°	1435.3	1468.4	1456.5	1488.3	1521.4	1557.2	1618.2	1600.9	1664.6	1713.6
10°	1411.4	1414.1	1427.3	1439.3	1468.4	1514.8	1599.6	1589.0	1654.0	1758.6
12.5°	1435.3	1435.3	1431.3	1422.0	1455.2	1500.2	1567.8	1573.1	1675.2	1771.9
15°	1518.8	1534.7	1492.3	1498.9	1485.6	1500.2	1559.9	1571.8	1683.1	1782.5
17.5°	1722.9	1717.6	1667.2	1597.0	1538.7	1529.4	1570.5	1583.7	1675.2	1813.0
20°	1921.7	1911.1	1823.6	1750.7	1635.4	1581.1	1587.7	1589.0	1688.4	1832.9
22.5°	2143.0	2170.8	2075.4	1927.0	1783.8	1648.6	1622.1	1643.3	1718.9	1843.5
25°	2490.2	2430.6	2348.4	2153.6	1923.0	1753.3	1679.1	1689.7	1748.0	1870.0
27.5°	2740.7	2716.8	2588.3	2430.6	2117.8	1835.5	1709.6	1729.5	1801.1	1868.6
30°	2981.9	2981.9	2903.7	2667.8	2323.2	1973.3	1774.6	1765.3	1775.9	1866.0
32.5°	3264.2	3225.7	3113.1	2956.7	2581.6	2099.2	1826.2	1828.9	1828.9	1915.0
35°	3412.6	3474.9	3399.3	3144.9	2779.1	2308.6	1950.8	1930.9	1916.4	1969.4
37.5°	3629.9	3667.1	3587.5	3437.8	3024.3	2478.3	2060.8	2044.9	1960.1	2011.8
40°	3761.1	3754.5	3751.9	3683.0	3349.0	2678.4	2222.5	2181.4	2067.4	2161.5
42.5°	3835.4	3822.1	3985.1	3942.7	3655.1	2972.6	2425.3	2402.7	2276.8	2427.9
45°	3918.9	4016.9	4150.8	4270.1	4011.6	3386.1	2768.5	2736.7	2624.1	2816.2
47.5°	3991.7	4112.3	4283.3	4410.5	4333.7	3835.4	3192.6	3200.6	3126.3	3323.8
50°	4113.7	4125.6	4357.5	4614.6	4674.3	4250.2	3762.5	3749.2	3716.1	3993.1
52.5°	4076.6	4112.3	4405.2	4733.9	4832.0	4688.8	4374.8	4414.5	4370.8	4719.3
55°	3472.2	3579.6	4376.1	4859.8	5205.7	5184.5	5162.0	5135.5	5132.8	5535.7
57.5°	3197.9	3285.4	3855.2	4999.0	5605.9	5762.3	5908.1	5937.3	5935.9	6422.3
60°	3017.7	3107.8	3644.5	4923.4	5946.5	6519.1	6798.7	6802.7	6794.7	7369.9
62.5°	2665.1	2752.6	3280.1	4509.9	6040.6	7217.5	7840.4	7892.0	7527.6	8186.3
65°	2241.1	2312.6	2777.8	3877.8	5790.2	7661.5	8623.6	8562.6	8145.2	8652.8
67°	1832.9	1880.6	2333.8	3329.1	5135.5	7448.1	8850.2	8900.6	8430.1	8672.6
67.5°	1716.2	1760.0	2188.0	3142.2	4886.3	7286.4	8858.2	8850.2	8435.4	8676.6
70°	1191.4	1210.0	1490.9	2161.5	3599.5	6155.9	8211.4	8230.0	8081.6	8206.1
72.5°	789.9	817.7	996.6	1362.4	2121.8	4479.5	6863.6	7062.4	6968.3	6728.5
75°	508.9	524.8	652.0	811.1	1044.3	2551.2	5070.5	5203.1	4987.0	4161.4
77.5°	284.9	302.2	393.6	493.0	508.9	1061.6	2848.0	3012.4	2552.5	1767.9
80°	177.6	200.1	296.9	292.9	242.5	389.6	1174.2	1257.7	1020.5	608.3
82.5°	133.9	151.1	229.3	205.4	136.5	173.6	440.0	471.8	373.7	234.6
85°	91.4	115.3	165.7	127.2	71.6	83.5	174.9	188.2	171.0	114.0
87.5°	33.1	49.0	86.1	63.6	31.8	25.2	57.0	63.6	61.0	51.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477649
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1758.6	0°	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6
1774.6	2.5°	1799.7	1818.3	1827.6	1881.9	1904.4	1900.5	1905.8	1913.7	1921.7	1932.3
1797.1	5°	1814.3	1871.3	1901.8	1965.4	2007.8	1989.2	2013.1	2006.5	1997.2	1995.9
1838.2	7.5°	1862.0	1934.9	2026.4	2043.6	2062.1	2015.8	1976.0	1921.7	1908.4	1862.0
1872.6	10°	1946.8	2006.5	2117.8	2124.4	2042.3	1923.0	1834.2	1721.5	1720.2	1652.6
1925.6	12.5°	2027.7	2095.3	2185.4	2147.0	1950.8	1787.8	1643.3	1520.1	1468.4	1434.0
1957.4	15°	2078.0	2189.4	2237.1	2071.4	1790.5	1570.5	1383.6	1251.1	1198.1	1172.9
1997.2	17.5°	2124.4	2279.5	2258.3	1938.9	1593.0	1346.5	1123.8	1008.5	994.0	975.4
2060.8	20°	2188.0	2312.6	2182.7	1766.6	1369.0	1057.6	915.8	860.1	873.4	881.3
2067.4	22.5°	2247.7	2329.8	2087.3	1578.4	1081.4	837.6	767.3	779.3	799.1	825.7
2083.3	25°	2274.2	2357.7	1958.8	1318.7	823.0	705.0	689.1	709.0	742.2	743.5
2105.9	27.5°	2291.4	2337.8	1803.7	1065.5	650.7	616.3	640.1	654.7	658.7	674.6
2153.6	30°	2321.9	2296.7	1607.6	762.0	546.0	547.3	577.8	577.8	577.8	589.8
2201.3	32.5°	2374.9	2268.9	1378.3	556.6	470.5	512.9	504.9	502.3	497.0	482.4
2262.3	35°	2408.0	2193.3	1088.1	412.2	422.8	470.5	467.8	426.7	357.8	323.4
2417.3	37.5°	2477.0	2154.9	800.5	318.1	394.9	449.3	434.7	335.3	259.8	226.6
2609.5	40°	2625.4	2129.7	554.0	278.3	376.4	438.7	388.3	286.3	198.8	140.5
2906.3	42.5°	2806.9	2131.1	376.4	262.4	377.7	461.2	373.7	245.2	140.5	112.6
3302.6	45°	3050.8	2111.2	258.4	262.4	401.6	498.3	383.0	222.6	136.5	143.1
3799.6	47.5°	3313.2	2128.4	192.2	238.6	405.5	499.6	349.9	218.7	131.2	165.7
4340.3	50°	3619.3	2145.6	159.0	220.0	406.9	483.7	322.0	213.4	136.5	174.9
4960.5	52.5°	3934.8	2200.0	135.2	208.1	422.8	477.1	322.0	221.3	136.5	152.4
5750.4	55°	4405.2	2339.1	194.8	259.8	481.1	520.8	396.3	310.1	190.8	196.1
6507.1	57.5°	4924.7	2482.3	217.3	273.0	494.3	469.1	426.7	341.9	201.4	202.8
7095.6	60°	5266.7	2487.6	216.0	266.4	462.5	405.5	417.5	360.5	205.4	173.6
7460.0	62.5°	5403.2	2325.9	225.3	266.4	430.7	379.0	428.1	388.3	212.0	217.3
7563.4	65°	5248.1	1991.9	217.3	238.6	379.0	339.3	430.7	393.6	231.9	218.7
7377.8	67°	5005.6	1716.2	221.3	226.6	352.5	322.0	453.2	413.5	269.0	262.4
7281.1	67.5°	4936.7	1643.3	220.0	220.0	343.2	316.7	458.5	413.5	274.3	271.7
6426.3	70°	4350.9	1331.9	225.3	217.3	303.5	300.8	487.7	436.0	315.4	318.1
4720.7	72.5°	3311.9	1009.9	224.0	217.3	263.7	287.6	491.7	450.6	343.2	318.1
2643.9	75°	1881.9	604.3	197.5	189.5	208.1	250.5	459.9	429.4	334.0	284.9
1056.2	77.5°	777.9	311.4	181.6	171.0	172.3	204.1	383.0	400.2	318.1	242.5
352.5	80°	290.2	186.9	145.8	136.5	132.5	149.8	273.0	319.4	271.7	198.8
155.1	82.5°	151.1	116.6	99.4	99.4	90.1	95.4	147.1	212.0	205.4	136.5
62.3	85°	76.9	66.3	57.0	55.7	50.4	45.1	74.2	125.9	118.0	75.5
27.8	87.5°	41.1	37.1	23.9	22.5	18.6	11.9	13.3	25.2	41.1	33.1
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>
1758.6
1942.9
2007.8
1877.9
1650.0
1426.0
1167.6
984.7
872.0
811.1
756.7
689.1
603.0
474.5
339.3
225.3
136.5
110.0
145.8
184.2
202.8
156.4
206.7
196.1
178.9
220.0
214.7
258.4
266.4
294.2
282.3
254.5
229.3
181.6
107.3
62.3
23.9
0.0

F REPORT)