

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: P477722

Luminaire Tested: **IFLD-S-SA2A-735-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477722
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

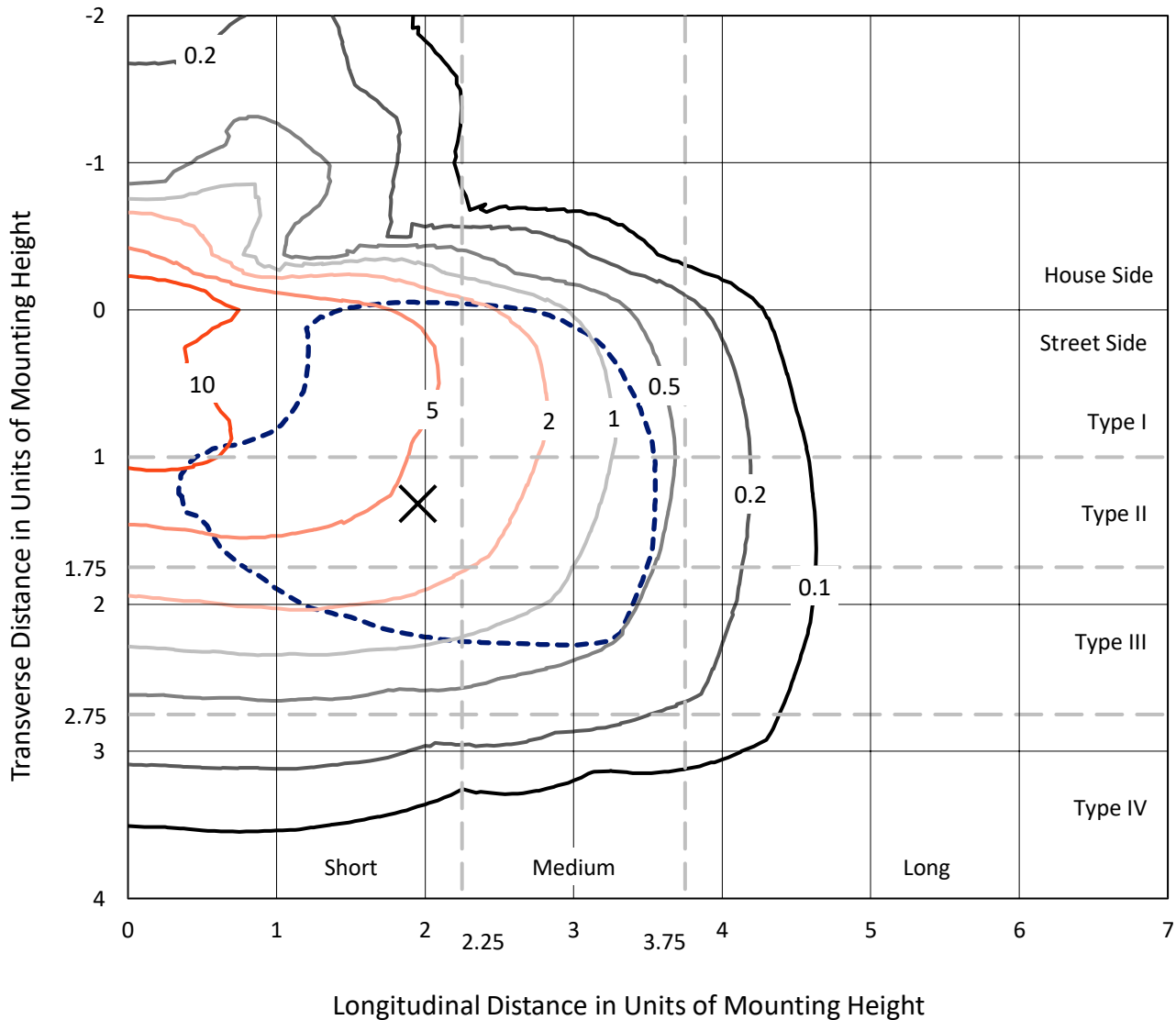
Lumens per Lamp: N/A
Luminaire Lumens: 8944.5 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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: P477722
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

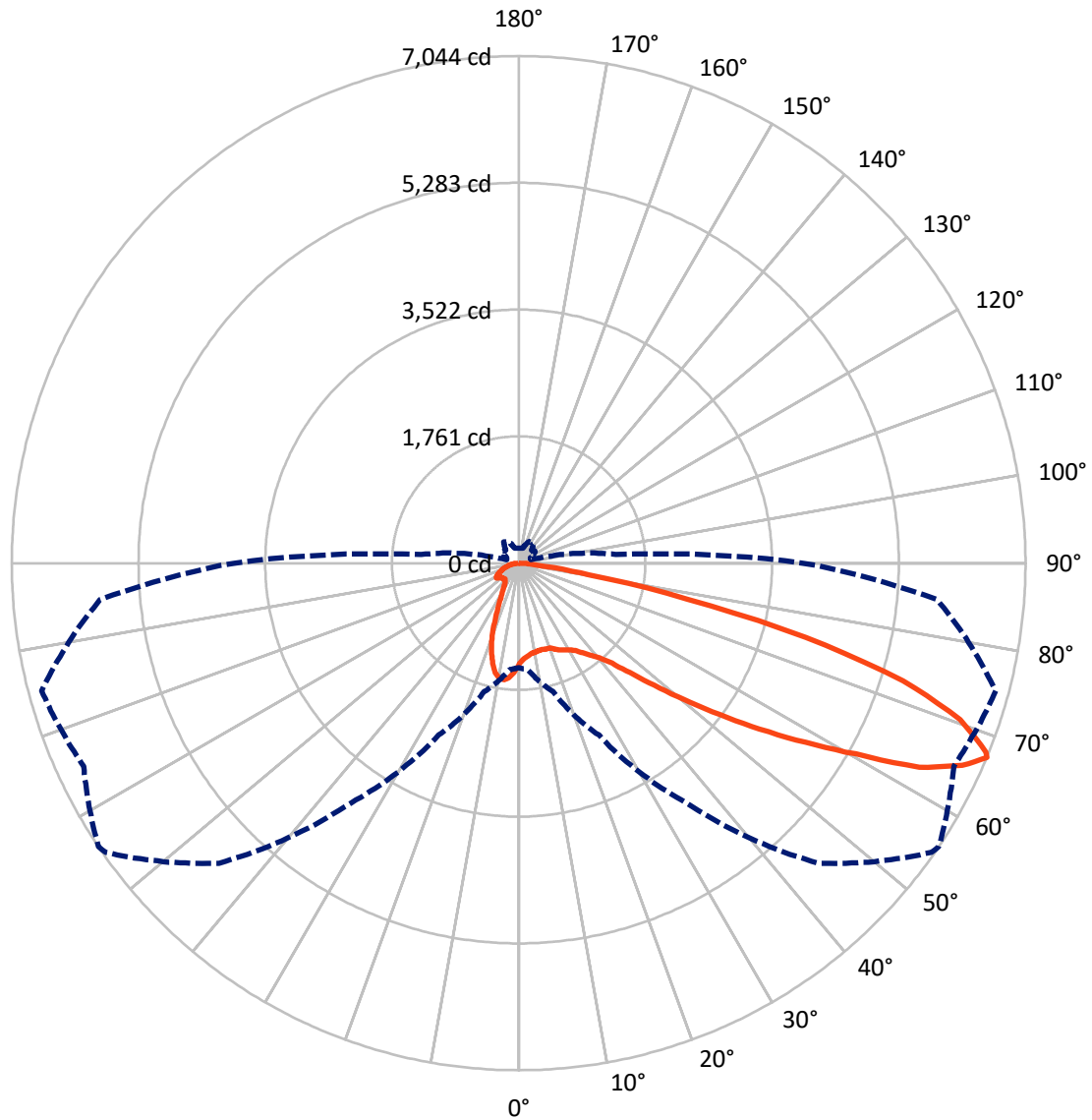
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type III - Short - N/A

REPORT NUMBER: P477722
CATALOG NUMBER: IFLD-S-SA2A-735-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477722
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T3R

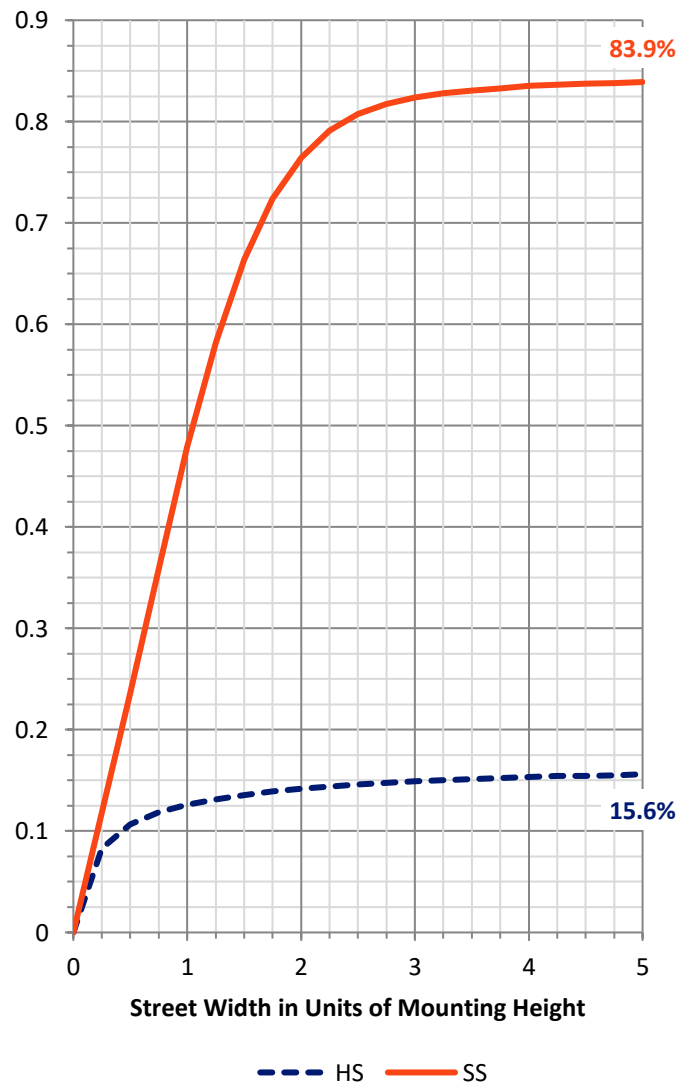
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1416.0	0.0	1416.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	7528.5	0.0	7528.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	8944.5	0.0	8944.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	1.5
10°-20°	365.8	4.1
20°-30°	573.7	6.4
30°-40°	818.9	9.2
40°-50°	1235.9	13.8
50°-60°	1967.4	22.0
60°-70°	2515.2	28.1
70°-80°	1226.3	13.7
80°-90°	107.3	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°	8944.5	100.0
0°-180°	8944.5	100.0

Coefficient of Utilization

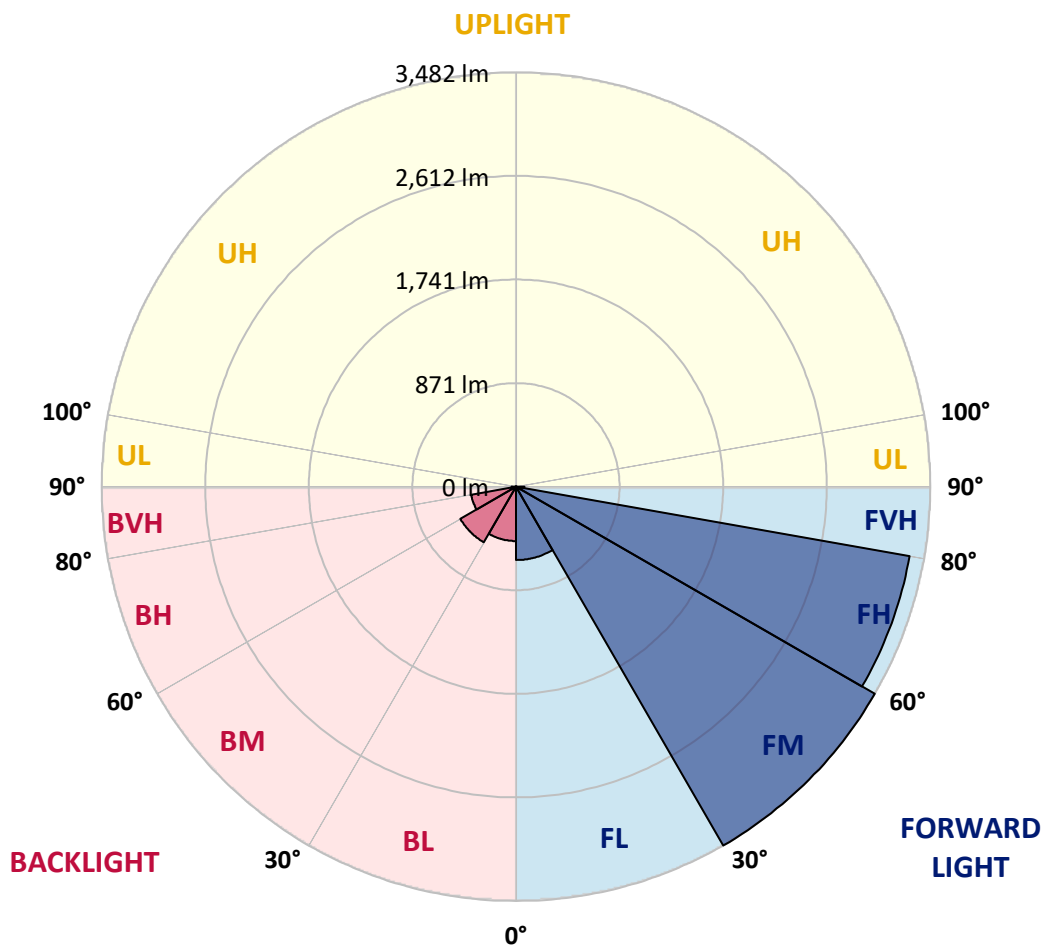


REPORT NUMBER: P477722
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.4	6.9			
FM (30°-60°)	3482.0	38.9			
FH (60°-80°)	3358.9	37.6			G2/5000
FVH (80°-90°)	71.2	0.8			G1/100
BL (0°-30°)	457.1	5.1	B1/500		
BM (30°-60°)	540.2	6.0	B1/1000		
BH (60°-80°)	382.6	4.3	B1/500		G1/500
BVH (80°-90°)	36.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





REPORT NUMBER: P477722
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7
2.5°	1278.5	1273.2	1279.5	1273.2	1301.6	1318.3	1323.6	1330.9	1357.1	1382.3
5°	1225.0	1201.9	1227.1	1235.5	1237.6	1265.9	1295.3	1300.5	1314.1	1355.0
7.5°	1135.8	1162.1	1152.6	1177.8	1204.0	1232.3	1280.6	1266.9	1317.3	1356.1
10°	1117.0	1119.1	1129.5	1139.0	1162.1	1198.8	1265.9	1257.5	1308.9	1391.7
12.5°	1135.8	1135.8	1132.7	1125.4	1151.6	1187.2	1240.7	1244.9	1325.7	1402.2
15°	1201.9	1214.5	1180.9	1186.2	1175.7	1187.2	1234.4	1243.9	1332.0	1410.6
17.5°	1363.4	1359.2	1319.4	1263.8	1217.6	1210.3	1242.8	1253.3	1325.7	1434.7
20°	1520.7	1512.4	1443.1	1385.5	1294.2	1251.2	1256.5	1257.5	1336.2	1450.5
22.5°	1695.9	1717.9	1642.4	1524.9	1411.7	1304.7	1283.7	1300.5	1360.3	1458.9
25°	1970.7	1923.5	1858.5	1704.3	1521.8	1387.6	1328.8	1337.2	1383.4	1479.8
27.5°	2168.9	2150.0	2048.3	1923.5	1676.0	1452.6	1352.9	1368.7	1425.3	1478.8
30°	2359.8	2359.8	2297.9	2111.2	1838.5	1561.7	1404.3	1397.0	1405.4	1476.7
32.5°	2583.2	2552.8	2463.6	2339.9	2043.0	1661.3	1445.2	1447.3	1447.3	1515.5
35°	2700.6	2749.9	2690.2	2488.8	2199.3	1827.0	1543.8	1528.1	1516.6	1558.5
37.5°	2872.6	2902.0	2839.1	2720.6	2393.3	1961.2	1630.9	1618.3	1551.2	1592.1
40°	2976.5	2971.2	2969.1	2914.6	2650.3	2119.6	1758.8	1726.3	1636.1	1710.6
42.5°	3035.2	3024.7	3153.7	3120.2	2892.6	2352.4	1919.3	1901.5	1801.8	1921.4
45°	3101.3	3178.9	3284.8	3379.2	3174.7	2679.7	2190.9	2165.8	2076.6	2228.7
47.5°	3159.0	3254.4	3389.7	3490.4	3429.5	3035.2	2526.5	2532.8	2474.1	2630.4
50°	3255.4	3264.9	3448.4	3651.9	3699.1	3363.5	2977.5	2967.0	2940.8	3160.0
52.5°	3226.1	3254.4	3486.2	3746.3	3823.9	3710.6	3462.1	3493.5	3458.9	3734.7
55°	2747.8	2832.8	3463.1	3845.9	4119.7	4102.9	4085.0	4064.1	4062.0	4380.8
57.5°	2530.7	2600.0	3050.9	3956.0	4436.4	4560.1	4675.5	4698.6	4697.5	5082.4
60°	2388.1	2459.4	2884.2	3896.3	4705.9	5159.0	5380.3	5383.4	5377.2	5832.3
62.5°	2109.1	2178.3	2595.8	3569.0	4780.4	5711.7	6204.7	6245.6	5957.1	6478.4
65°	1773.5	1830.1	2198.3	3068.8	4582.2	6063.1	6824.5	6776.2	6445.9	6847.6
67°	1450.5	1488.2	1846.9	2634.6	4064.1	5894.2	7003.8	7043.7	6671.4	6863.3
67.5°	1358.2	1392.8	1731.6	2486.7	3866.9	5766.3	7010.1	7003.8	6675.6	6866.4
70°	942.9	957.5	1179.9	1710.6	2848.5	4871.6	6498.3	6513.0	6395.5	6494.1
72.5°	625.1	647.1	788.7	1078.2	1679.1	3544.9	5431.7	5589.0	5514.5	5324.7
75°	402.7	415.3	516.0	641.9	826.4	2018.9	4012.7	4117.6	3946.6	3293.2
77.5°	225.5	239.1	311.5	390.2	402.7	840.1	2253.9	2383.9	2020.0	1399.1
80°	140.5	158.4	234.9	231.8	191.9	308.3	929.2	995.3	807.6	481.4
82.5°	105.9	119.6	181.4	162.6	108.0	137.4	348.2	373.4	295.8	185.6
85°	72.4	91.2	131.1	100.7	56.6	66.1	138.4	148.9	135.3	90.2
87.5°	26.2	38.8	68.2	50.3	25.2	19.9	45.1	50.3	48.2	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477722
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1391.7	0°	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7	1391.7
1404.3	2.5°	1424.3	1438.9	1446.3	1489.3	1507.1	1504.0	1508.2	1514.5	1520.7	1529.1
1422.2	5°	1435.8	1480.9	1505.0	1555.4	1588.9	1574.2	1593.1	1587.9	1580.5	1579.5
1454.7	7.5°	1473.6	1531.2	1603.6	1617.2	1631.9	1595.2	1563.7	1520.7	1510.3	1473.6
1481.9	10°	1540.7	1587.9	1676.0	1681.2	1616.2	1521.8	1451.5	1362.4	1361.3	1307.8
1523.9	12.5°	1604.7	1658.1	1729.5	1699.0	1543.8	1414.8	1300.5	1203.0	1162.1	1134.8
1549.1	15°	1644.5	1732.6	1770.4	1639.3	1416.9	1242.8	1094.9	990.1	948.1	928.2
1580.5	17.5°	1681.2	1803.9	1787.1	1534.4	1260.6	1065.6	889.4	798.1	786.6	771.9
1630.9	20°	1731.6	1830.1	1727.4	1398.0	1083.4	836.9	724.7	680.7	691.2	697.4
1636.1	22.5°	1778.8	1843.8	1651.8	1249.1	855.8	662.8	607.3	616.7	632.4	653.4
1648.7	25°	1799.7	1865.8	1550.1	1043.5	651.3	558.0	545.4	561.1	587.3	588.4
1666.5	27.5°	1813.4	1850.1	1427.4	843.2	515.0	487.7	506.6	518.1	521.2	533.8
1704.3	30°	1837.5	1817.6	1272.2	603.1	432.1	433.2	457.3	457.3	457.3	466.7
1742.0	32.5°	1879.4	1795.5	1090.7	440.5	372.3	405.9	399.6	397.5	393.3	381.8
1790.3	35°	1905.7	1735.8	861.1	326.2	334.6	372.3	370.2	337.7	283.2	255.9
1913.0	37.5°	1960.2	1705.3	633.5	251.7	312.5	355.5	344.0	265.3	205.6	179.3
2065.1	40°	2077.7	1685.4	438.4	220.2	297.9	347.2	307.3	226.5	157.3	111.2
2300.0	42.5°	2221.3	1686.5	297.9	207.7	298.9	365.0	295.8	194.0	111.2	89.1
2613.6	45°	2414.3	1670.7	204.5	207.7	317.8	394.3	303.1	176.2	108.0	113.3
3006.9	47.5°	2622.0	1684.4	152.1	188.8	320.9	395.4	276.9	173.1	103.8	131.1
3434.8	50°	2864.2	1698.0	125.9	174.1	322.0	382.8	254.9	168.9	108.0	138.4
3925.6	52.5°	3113.9	1741.0	107.0	164.7	334.6	377.6	254.9	175.1	108.0	120.6
4550.7	55°	3486.2	1851.1	154.2	205.6	380.7	412.2	313.6	245.4	151.0	155.2
5149.6	57.5°	3897.3	1964.4	172.0	216.1	391.2	371.3	337.7	270.6	159.4	160.5
5615.2	60°	4167.9	1968.6	171.0	210.8	366.0	320.9	330.4	285.3	162.6	137.4
5903.6	62.5°	4275.9	1840.6	178.3	210.8	340.9	300.0	338.8	307.3	167.8	172.0
5985.5	65°	4153.2	1576.3	172.0	188.8	300.0	268.5	340.9	311.5	183.5	173.1
5838.6	67°	3961.3	1358.2	175.1	179.3	279.0	254.9	358.7	327.2	212.9	207.7
5762.1	67.5°	3906.7	1300.5	174.1	174.1	271.6	250.7	362.9	327.2	217.1	215.0
5085.6	70°	3443.2	1054.0	178.3	172.0	240.2	238.1	386.0	345.1	249.6	251.7
3735.8	72.5°	2620.9	799.2	177.2	172.0	208.7	227.6	389.1	356.6	271.6	251.7
2092.3	75°	1489.3	478.2	156.3	150.0	164.7	198.2	363.9	339.8	264.3	225.5
835.9	77.5°	615.6	246.5	143.7	135.3	136.3	161.5	303.1	316.7	251.7	191.9
279.0	80°	229.7	147.9	115.4	108.0	104.9	118.5	216.1	252.8	215.0	157.3
122.7	82.5°	119.6	92.3	78.7	78.7	71.3	75.5	116.4	167.8	162.6	108.0
49.3	85°	60.8	52.4	45.1	44.0	39.9	35.7	58.7	99.6	93.3	59.8
22.0	87.5°	32.5	29.4	18.9	17.8	14.7	9.4	10.5	19.9	32.5	26.2
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°
1391.7
1537.5
1588.9
1486.1
1305.7
1128.5
924.0
779.3
690.1
641.9
598.9
545.4
477.2
375.5
268.5
178.3
108.0
87.0
115.4
145.8
160.5
123.8
163.6
155.2
141.6
174.1
169.9
204.5
210.8
232.8
223.4
201.4
181.4
143.7
85.0
49.3
18.9
0.0

F REPORT)