

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: P477259

Luminaire Tested: **IFLD-S-SA3A-727-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477259  
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-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

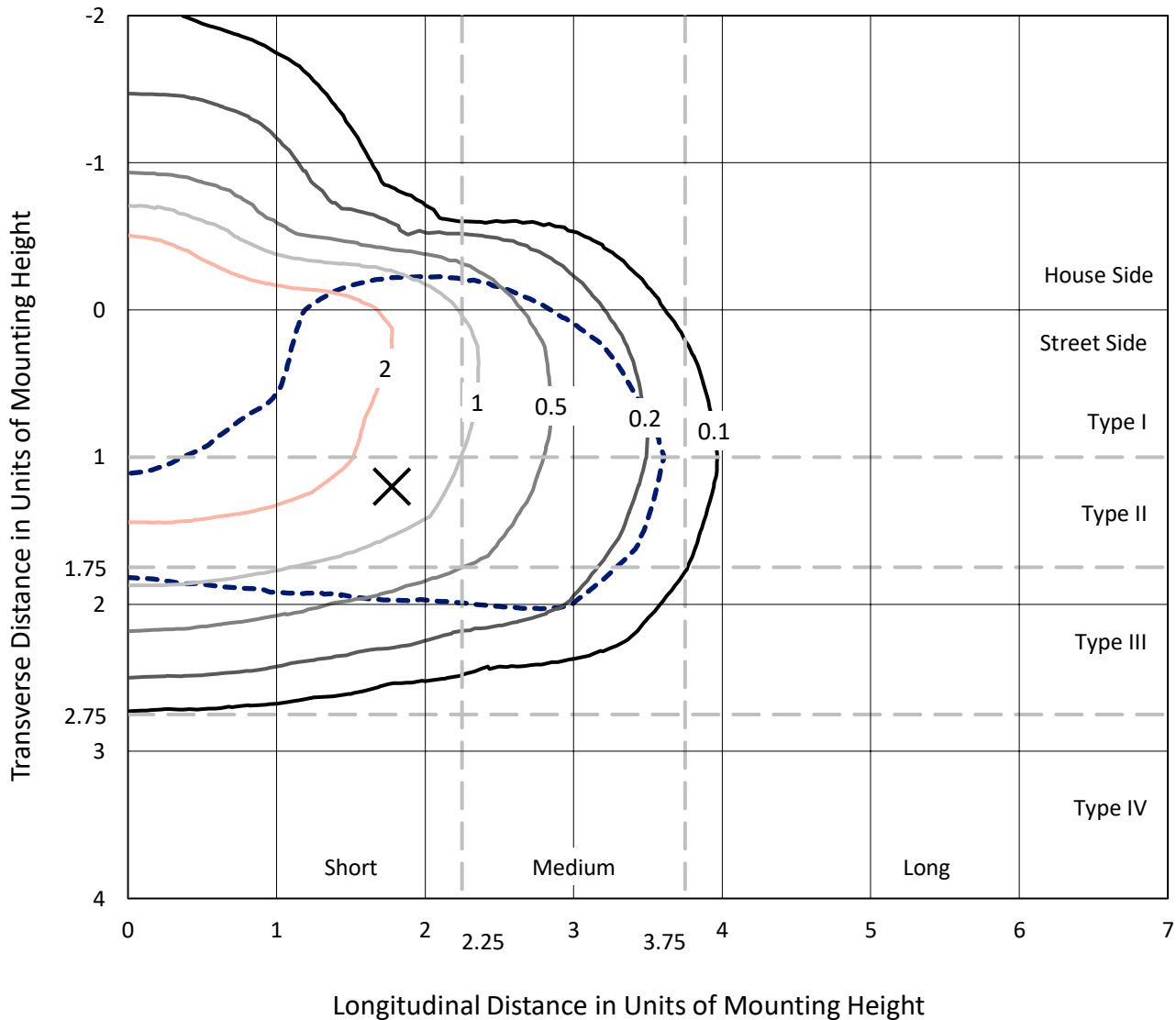
Lumens per Lamp: N/A  
Luminaire Lumens: 11719.4 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P477259  
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

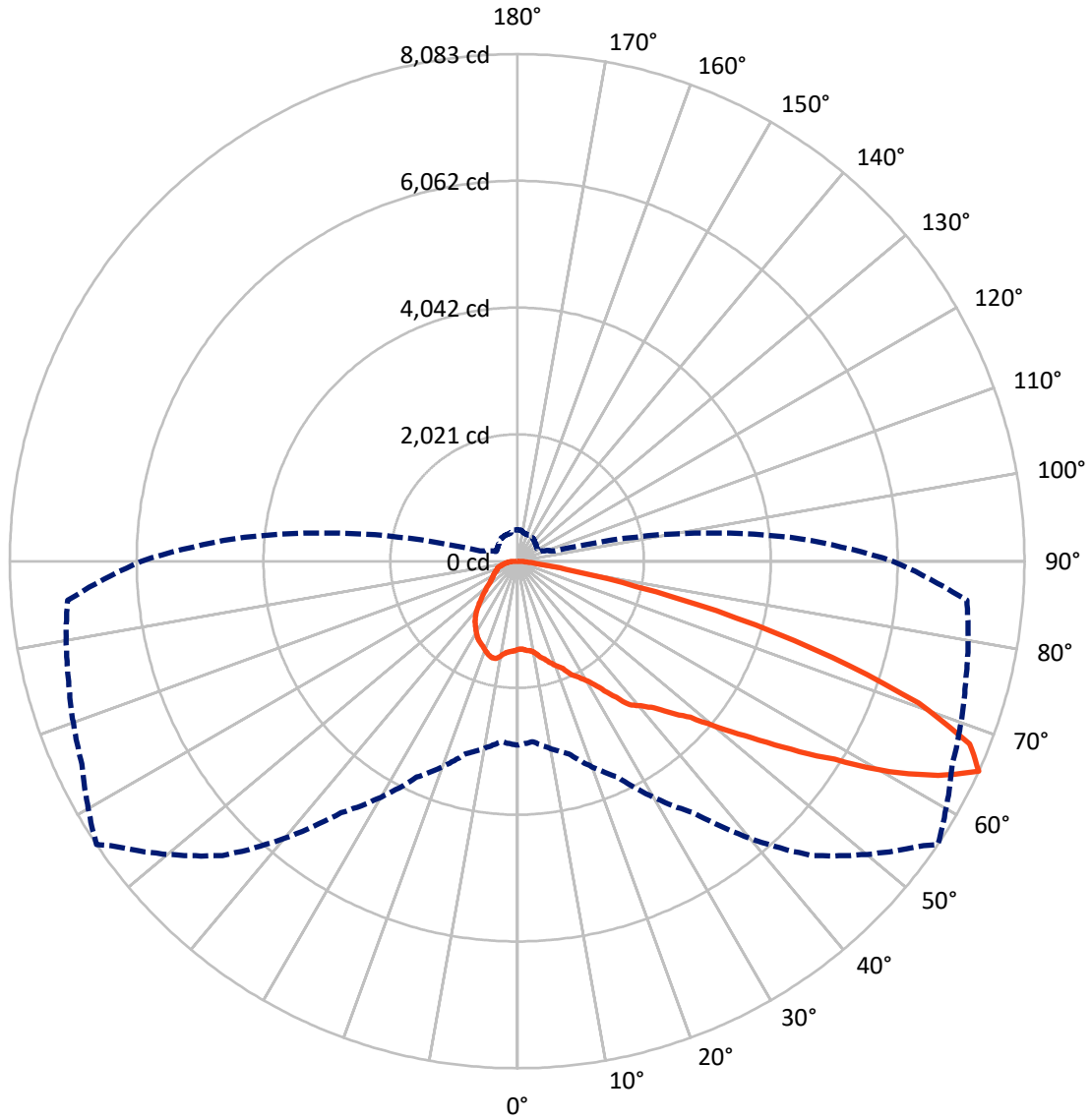
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P477259  
CATALOG NUMBER: IFLD-S-SA3A-727-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P477259  
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3

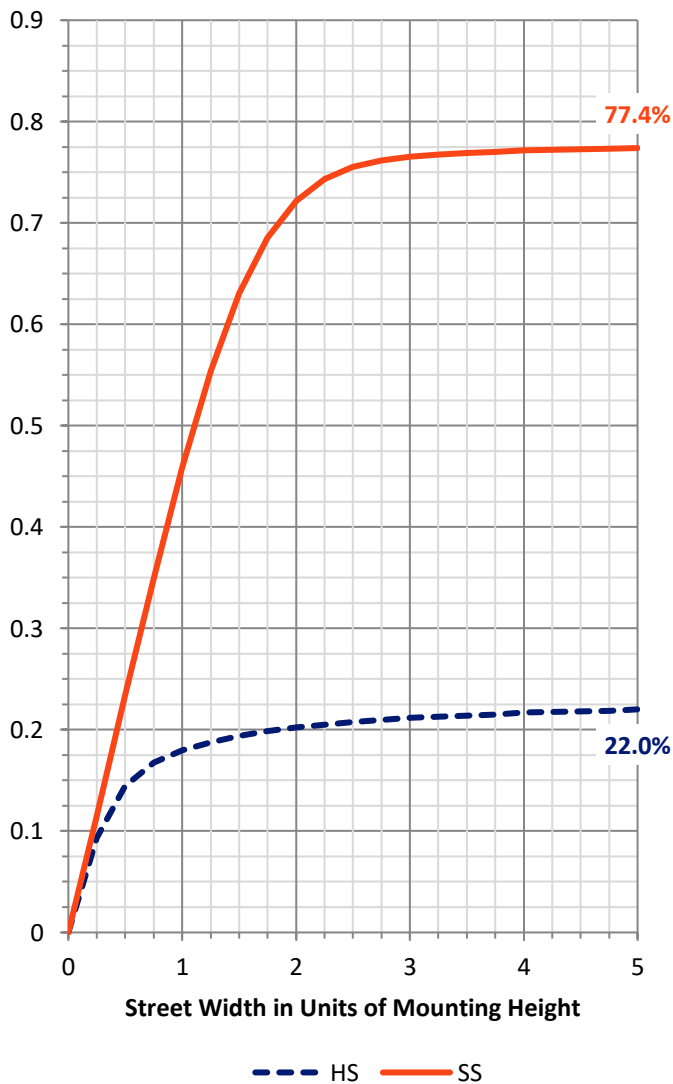
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2628.3	0.0	2628.3
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	9091.1	0.0	9091.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	11719.4	0.0	11719.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.4	1.2
10°-20°	452.6	3.9
20°-30°	805.9	6.9
30°-40°	1206.9	10.3
40°-50°	1788.1	15.3
50°-60°	2755.3	23.5
60°-70°	3119.3	26.6
70°-80°	1294.5	11.0
80°-90°	157.3	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°	11719.4	100.0
0°-180°	11719.4	100.0

**Coefficient of Utilization**

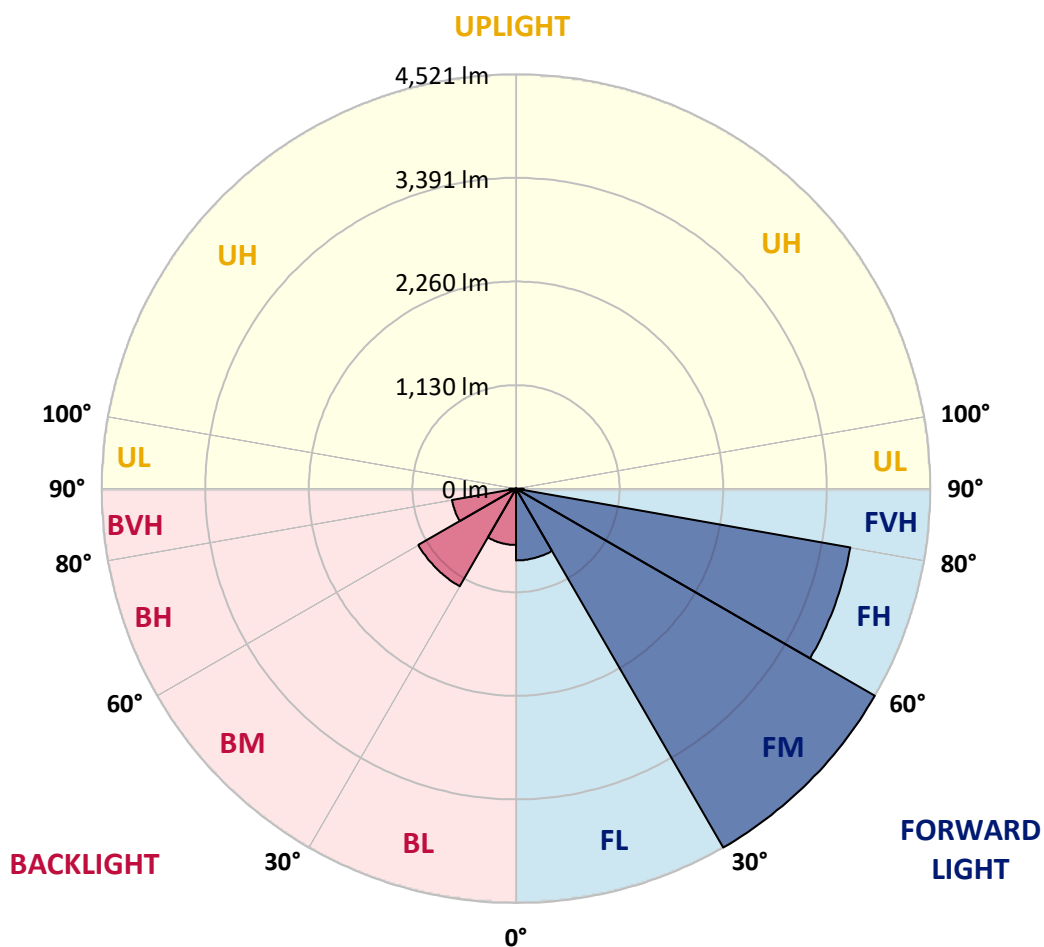


REPORT NUMBER: P477259  
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.2	6.7			
FM (30°-60°)	4520.8	38.6			
FH (60°-80°)	3704.1	31.6			G2/5000
FVH (80°-90°)	83.0	0.7			G1/100
BL (0°-30°)	614.8	5.2	B2/1000		
BM (30°-60°)	1229.5	10.5	B2/2500		
BH (60°-80°)	709.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	74.3	0.6			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: P477259  
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7
2.5°	1369.9	1377.2	1372.3	1387.0	1399.3	1399.3	1409.1	1401.8	1411.6	1425.1
5°	1415.2	1385.8	1401.8	1409.1	1405.4	1411.6	1401.8	1426.3	1410.3	1436.1
7.5°	1426.3	1437.3	1450.8	1438.5	1449.6	1443.4	1444.7	1441.0	1432.4	1453.3
10°	1507.2	1491.3	1521.9	1503.5	1501.1	1498.6	1493.7	1475.3	1496.2	1497.4
12.5°	1600.4	1585.7	1584.5	1569.8	1589.4	1553.8	1561.2	1551.4	1555.0	1560.0
15°	1667.9	1661.7	1690.0	1672.8	1647.0	1631.1	1648.3	1621.3	1634.8	1632.3
17.5°	1801.6	1800.3	1779.5	1751.3	1736.6	1713.3	1709.6	1698.5	1708.3	1703.4
20°	1894.8	1908.2	1911.9	1878.8	1822.4	1796.6	1790.5	1781.9	1793.0	1789.3
22.5°	2037.0	2016.2	2032.1	1974.5	1953.6	1892.3	1870.2	1858.0	1910.7	1897.2
25°	2127.8	2149.8	2133.9	2114.3	2067.7	1991.6	1975.7	2002.7	2023.5	2008.8
27.5°	2332.6	2310.5	2295.8	2236.9	2206.3	2126.5	2108.1	2098.3	2103.2	2111.8
30°	2488.3	2500.6	2467.5	2425.8	2348.5	2267.6	2224.7	2216.1	2198.9	2184.2
32.5°	2710.3	2691.9	2672.3	2645.3	2579.1	2472.4	2430.7	2398.8	2347.3	2278.6
35°	2817.0	2869.7	2855.0	2782.7	2732.4	2691.9	2679.6	2630.6	2587.7	2479.7
37.5°	2994.8	3016.9	2996.0	2972.7	2949.4	2906.5	2891.8	2905.3	2820.7	2642.8
40°	3110.1	3156.7	3199.6	3134.6	3129.7	3138.3	3047.6	3031.6	2857.5	2764.3
42.5°	3345.6	3365.2	3373.8	3371.3	3399.5	3399.5	3226.6	3192.3	3068.4	2992.4
45°	3657.1	3673.0	3703.7	3725.7	3693.9	3709.8	3463.3	3449.8	3339.4	3324.7
47.5°	3926.9	3964.9	4033.6	4098.6	4140.3	4086.3	3816.5	3720.8	3692.6	3780.9
50°	4162.3	4117.0	4277.6	4343.8	4526.6	4616.1	4206.5	4168.5	4123.1	4292.3
52.5°	4185.6	4247.0	4473.8	4606.3	4982.8	5148.3	4684.8	4668.8	4613.6	4808.6
55°	4352.4	4345.1	4573.2	4860.1	5307.8	5586.2	5307.8	5298.0	5177.8	5363.0
57.5°	4324.2	4399.0	4579.3	4980.3	5600.9	6055.9	6030.1	5962.7	5794.6	5945.5
60°	4228.6	4248.2	4467.7	4976.6	5771.3	6537.8	6810.1	6823.6	6480.2	6600.4
62.5°	3686.5	3731.9	4010.3	4585.4	5649.9	6870.2	7571.7	7523.8	7249.1	7111.8
65°	2932.3	2886.9	3176.3	3798.1	4894.5	6634.7	7905.2	8083.1	7651.4	7400.0
67.5°	1797.9	1786.8	2065.2	2613.4	3662.0	5646.3	7639.1	7777.7	7539.8	7338.7
70°	925.9	897.7	1071.9	1458.2	2301.9	4142.7	6648.2	6784.3	7011.2	6582.0
72.5°	431.7	425.6	518.8	717.4	1172.4	2435.6	5148.3	5246.5	5724.7	5549.4
75°	253.9	257.5	310.3	375.3	571.5	1147.9	3416.7	3606.8	4125.5	3999.2
77.5°	190.1	190.1	220.7	261.2	333.6	443.9	1686.3	1937.7	2412.3	2169.5
80°	139.8	142.3	169.2	196.2	231.8	229.3	669.6	784.9	1106.2	945.5
82.5°	109.1	112.8	131.2	145.9	163.1	138.6	274.7	295.6	455.0	361.8
85°	76.0	78.5	103.0	99.3	99.3	77.3	114.1	120.2	180.3	171.7
87.5°	18.4	20.8	50.3	55.2	41.7	23.3	35.6	40.5	65.0	74.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477259  
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1406.7	0°	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7	1406.7
1431.2	2.5°	1412.8	1417.7	1438.5	1427.5	1433.6	1407.9	1428.7	1411.6	1426.3	1418.9
1442.2	5°	1452.0	1441.0	1453.3	1444.7	1444.7	1454.5	1469.2	1458.2	1480.2	1470.4
1450.8	7.5°	1468.0	1469.2	1476.6	1477.8	1471.7	1502.3	1503.5	1499.9	1520.7	1515.8
1509.7	10°	1507.2	1508.4	1521.9	1529.3	1523.2	1534.2	1521.9	1512.1	1510.9	1506.0
1556.3	12.5°	1569.8	1582.0	1579.6	1585.7	1586.9	1540.3	1512.1	1464.3	1458.2	1464.3
1625.0	15°	1627.4	1622.5	1625.0	1637.2	1585.7	1510.9	1460.6	1420.1	1422.6	1423.8
1714.5	17.5°	1696.1	1699.8	1703.4	1647.0	1552.6	1464.3	1420.1	1420.1	1407.9	1412.8
1777.0	20°	1774.6	1759.9	1728.0	1648.3	1495.0	1410.3	1396.8	1396.8	1382.1	1372.3
1844.5	22.5°	1835.9	1806.5	1758.6	1610.2	1443.4	1389.5	1356.4	1333.1	1315.9	1296.3
1919.3	25°	1875.1	1859.2	1766.0	1571.0	1405.4	1334.3	1285.2	1249.7	1227.6	1201.9
1978.1	27.5°	1935.2	1904.6	1786.8	1525.6	1363.7	1279.1	1203.1	1147.9	1106.2	1079.2
2067.7	30°	2016.2	1972.0	1772.1	1460.6	1300.0	1183.5	1093.9	1022.8	975.0	952.9
2152.3	32.5°	2082.4	2024.8	1759.9	1401.8	1228.8	1086.6	967.6	895.3	868.3	840.1
2294.6	35°	2208.7	2094.7	1751.3	1368.6	1165.1	989.7	864.6	802.1	767.7	726.0
2379.2	37.5°	2305.6	2216.1	1730.4	1300.0	1082.9	895.3	786.1	729.7	678.2	634.0
2575.4	40°	2457.7	2385.3	1731.6	1203.1	986.0	814.3	724.8	665.9	600.9	562.9
2866.0	42.5°	2743.4	2552.1	1739.0	1125.8	876.9	748.1	669.6	599.7	534.7	502.8
3197.2	45°	3094.2	2781.4	1693.6	1055.9	765.3	685.5	603.4	533.5	491.8	468.5
3647.3	47.5°	3497.6	3005.9	1632.3	924.7	672.1	619.3	542.1	501.6	470.9	457.4
4227.3	50°	3948.9	3327.2	1615.1	804.5	599.7	562.9	512.6	482.0	461.1	445.2
4881.0	52.5°	4530.2	3701.2	1580.8	680.6	537.2	517.5	501.6	480.7	462.3	448.9
5490.5	55°	5085.8	4115.7	1544.0	578.9	493.0	495.5	504.0	485.6	469.7	448.9
6173.6	57.5°	5711.2	4538.8	1407.9	504.0	459.9	484.4	501.6	480.7	464.8	448.9
6872.6	60°	6097.6	4776.7	1141.8	439.0	430.5	463.6	486.9	464.8	447.6	453.8
7193.9	62.5°	6254.5	4651.7	860.9	398.6	409.6	435.4	463.6	455.0	442.7	466.0
7190.3	65°	5987.2	4363.5	615.6	364.2	381.4	407.2	442.7	452.5	456.2	501.6
6604.1	67.5°	5327.4	3799.3	452.5	336.0	352.0	390.0	457.4	473.4	470.9	527.3
5542.0	70°	4262.9	2971.5	353.2	312.7	340.9	403.5	478.3	478.3	461.1	527.3
4227.3	72.5°	3101.5	2094.7	304.1	285.7	312.7	370.4	475.8	474.6	452.5	482.0
2691.9	75°	1877.6	1219.0	268.6	258.8	268.6	317.6	455.0	447.6	417.0	414.5
1295.1	77.5°	935.7	613.2	219.5	229.3	234.2	266.1	399.8	410.8	369.1	359.3
511.4	80°	394.9	267.4	182.7	197.4	197.4	224.4	332.3	339.7	306.6	288.2
202.4	82.5°	180.3	153.3	155.8	171.7	160.7	174.1	263.7	272.3	249.0	218.3
85.8	85°	76.0	87.1	119.0	134.9	119.0	112.8	181.5	191.3	161.9	134.9
36.8	87.5°	34.3	47.8	74.8	98.1	60.1	52.7	96.9	100.6	80.9	60.1
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





180°  
1406.7  
1405.4  
1456.9  
1508.4  
1506.0  
1466.7  
1441.0  
1414.0  
1357.6  
1285.2  
1206.8  
1091.5  
965.2  
838.8  
722.3  
635.3  
566.6  
505.3  
473.4  
455.0  
447.6  
447.6  
447.6  
447.6  
448.9  
459.9  
**501.6**  
531.0  
516.3  
464.8  
409.6  
353.2  
282.1  
213.4  
136.1  
56.4  
0.0

F REPORT)