

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: P477492

Luminaire Tested: **IFLD-S-SA2E-827-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477492  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-827-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

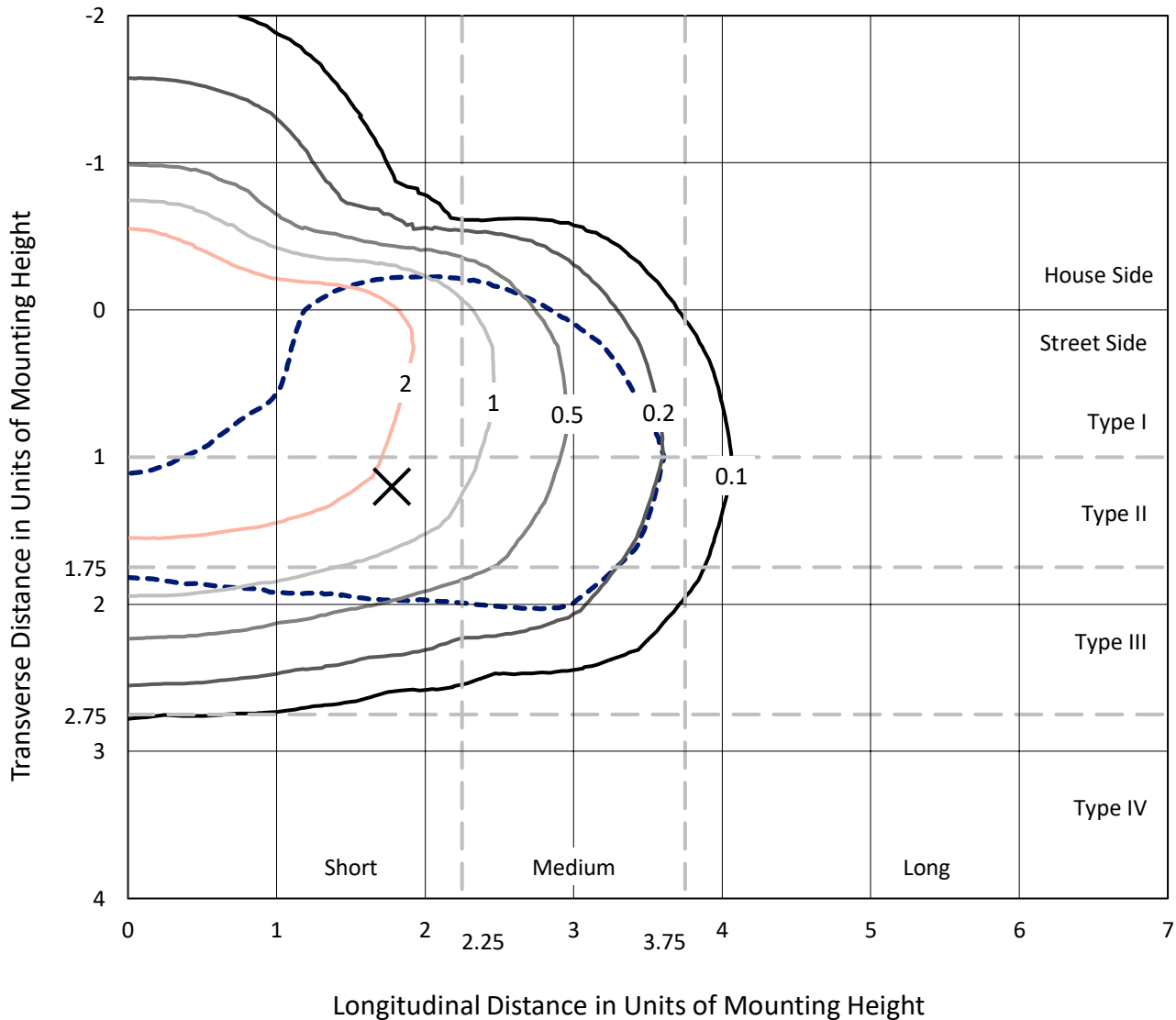
Lumens per Lamp: N/A  
Luminaire Lumens: 13551.3 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2  
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: P477492  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

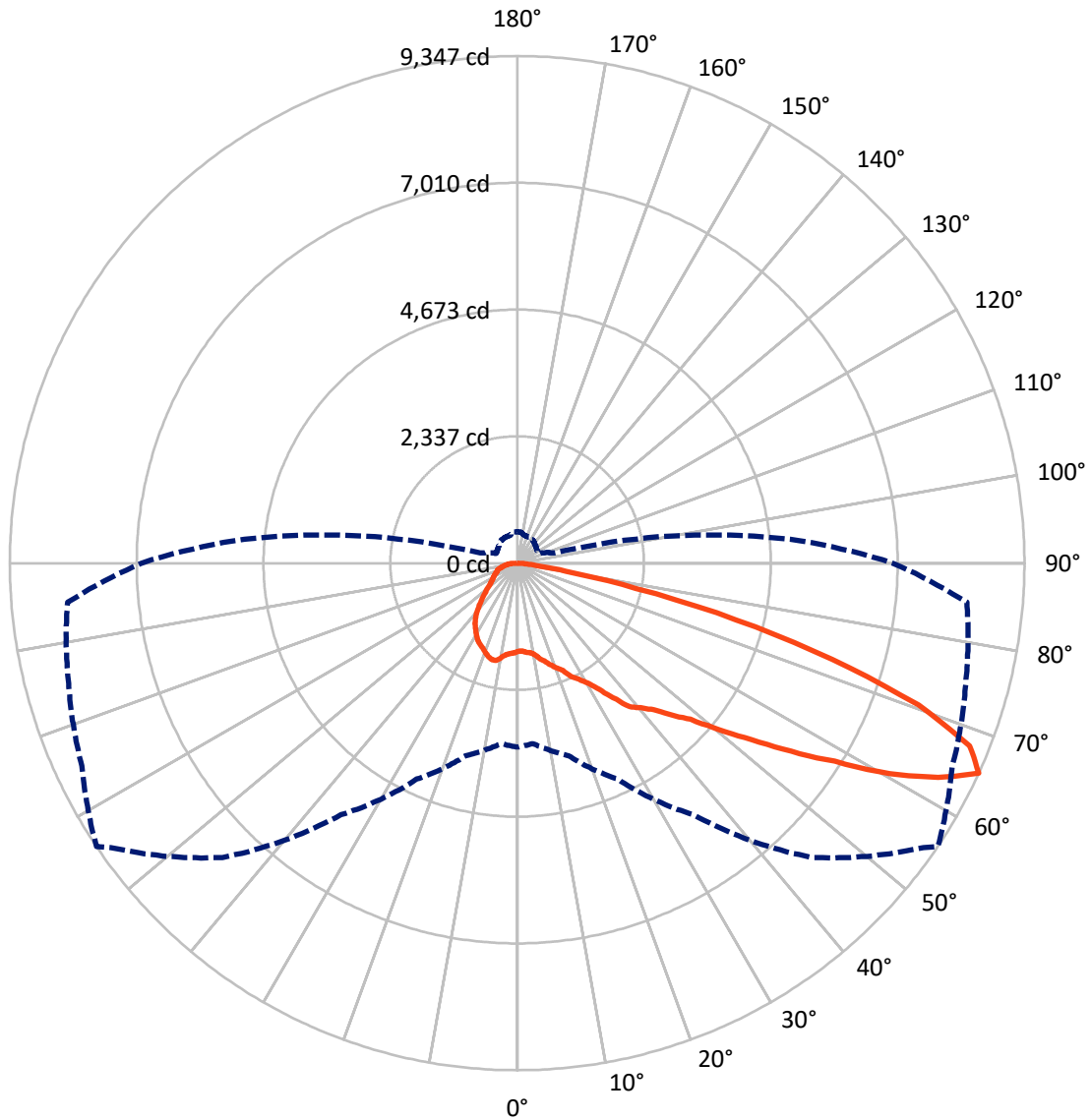
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P477492  
CATALOG NUMBER: IFLD-S-SA2E-827-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P477492  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-T3

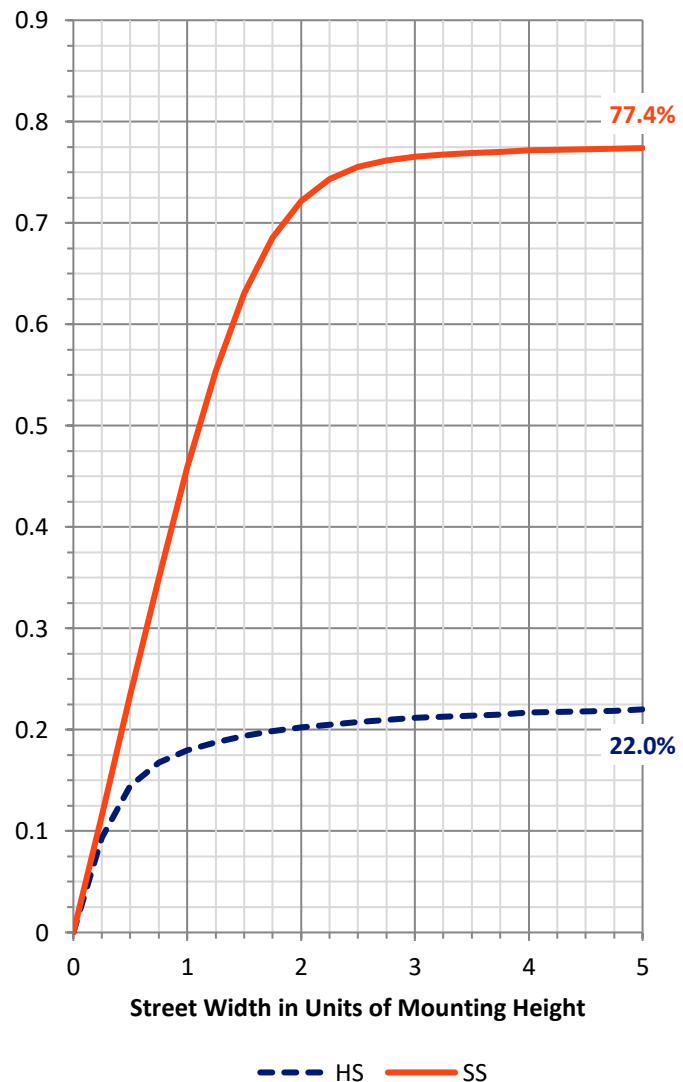
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3039.1	0.0	3039.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10512.1	0.0	10512.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	13551.3	0.0	13551.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.2	1.2
10°-20°	523.4	3.9
20°-30°	931.9	6.9
30°-40°	1395.5	10.3
40°-50°	2067.6	15.3
50°-60°	3186.0	23.5
60°-70°	3606.9	26.6
70°-80°	1496.9	11.0
80°-90°	181.9	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°	13551.3	100.0
0°-180°	13551.3	100.0

**Coefficient of Utilization**

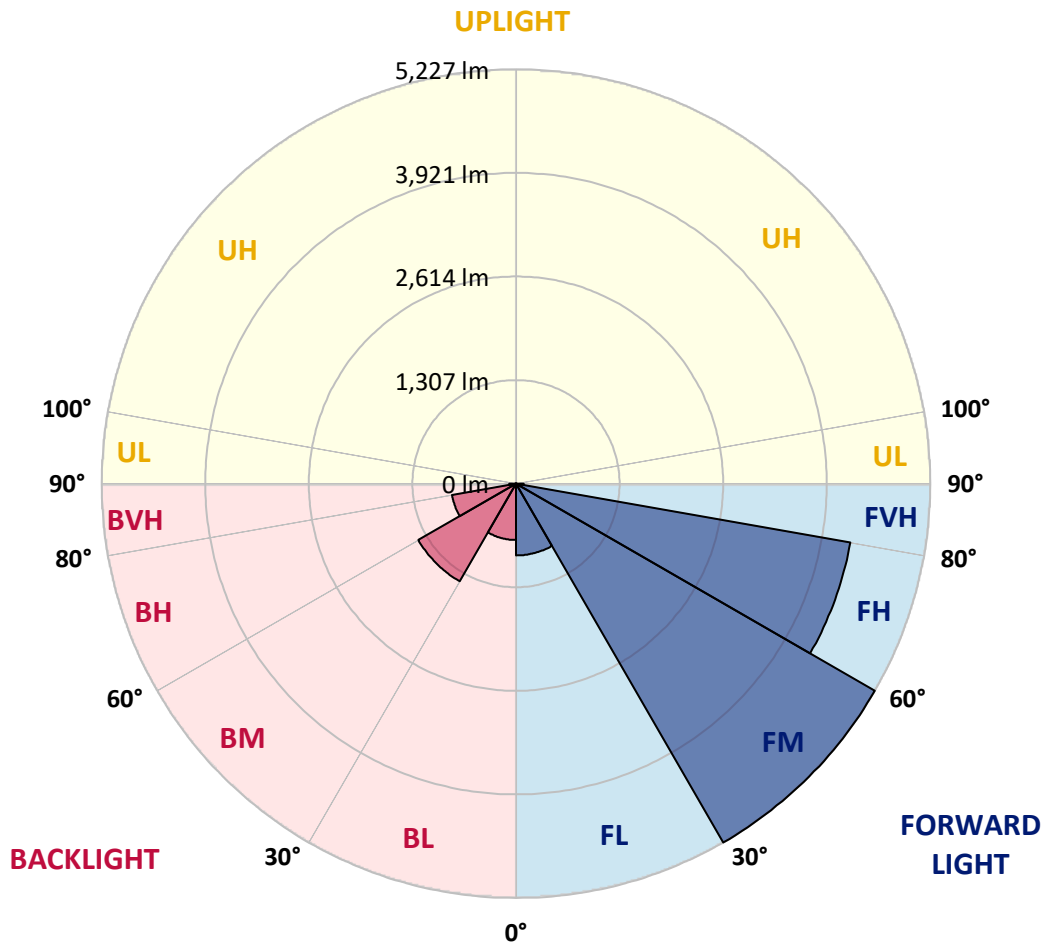


REPORT NUMBER: P477492  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.6	6.7			
FM (30°-60°)	5227.5	38.6			
FH (60°-80°)	4283.1	31.6			G2/5000
FVH (80°-90°)	95.9	0.7			G1/100
BL (0°-30°)	710.9	5.2	B2/1000		
BM (30°-60°)	1421.6	10.5	B2/2500		
BH (60°-80°)	820.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	85.9	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: P477492  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5
2.5°	1584.0	1592.5	1586.8	1603.8	1618.0	1618.0	1629.4	1620.9	1632.2	1647.8
5°	1636.5	1602.4	1620.9	1629.4	1625.1	1632.2	1620.9	1649.2	1630.8	1660.6
7.5°	1649.2	1662.0	1677.6	1663.4	1676.2	1669.1	1670.5	1666.2	1656.3	1680.4
10°	1742.8	1724.4	1759.8	1738.6	1735.7	1732.9	1727.2	1705.9	1730.1	1731.5
12.5°	1850.6	1833.6	1832.2	1815.1	1837.8	1796.7	1805.2	1793.9	1798.1	1803.8
15°	1928.6	1921.5	1954.1	1934.3	1904.5	1886.0	1905.9	1874.7	1890.3	1887.5
17.5°	2083.2	2081.7	2057.6	2025.0	2008.0	1981.1	1976.8	1964.0	1975.4	1969.7
20°	2190.9	2206.5	2210.8	2172.5	2107.3	2077.5	2070.4	2060.5	2073.2	2069.0
22.5°	2355.4	2331.3	2349.8	2283.1	2259.0	2188.1	2162.6	2148.4	2209.4	2193.8
25°	2460.4	2485.9	2467.5	2444.8	2390.9	2303.0	2284.5	2315.7	2339.8	2322.8
27.5°	2697.2	2671.7	2654.6	2586.6	2551.1	2459.0	2437.7	2426.3	2432.0	2441.9
30°	2877.3	2891.5	2853.2	2805.0	2715.6	2622.0	2572.4	2562.5	2542.6	2525.6
32.5°	3134.0	3112.7	3090.0	3058.8	2982.2	2858.8	2810.6	2773.8	2714.2	2634.8
35°	3257.3	3318.3	3301.3	3217.6	3159.5	3112.7	3098.5	3041.8	2992.1	2867.4
37.5°	3463.0	3488.5	3464.4	3437.4	3410.5	3360.8	3343.8	3359.4	3261.6	3056.0
40°	3596.2	3650.1	3699.8	3624.6	3618.9	3628.9	3523.9	3505.5	3304.1	3196.4
42.5°	3868.5	3891.2	3901.1	3898.3	3930.9	3930.9	3731.0	3691.3	3548.0	3460.1
45°	4228.7	4247.1	4282.6	4308.1	4271.3	4289.7	4004.7	3989.1	3861.4	3844.4
47.5°	4540.7	4584.7	4664.1	4739.2	4787.4	4725.0	4413.1	4302.5	4269.8	4371.9
50°	4813.0	4760.5	4946.3	5022.8	5234.1	5337.7	4864.0	4820.1	4767.6	4963.3
52.5°	4839.9	4910.8	5173.2	5326.3	5761.7	5953.1	5417.1	5398.6	5334.8	5560.3
55°	5032.8	5024.3	5288.0	5619.8	6137.4	6459.4	6137.4	6126.1	5987.1	6201.3
57.5°	5000.1	5086.7	5295.1	5758.8	6476.4	7002.5	6972.7	6894.7	6700.4	6874.9
60°	4889.5	4912.2	5166.1	5754.6	6673.5	7559.8	7874.6	7890.2	7493.1	7632.1
62.5°	4262.7	4315.2	4637.1	5302.2	6533.1	7944.1	8755.2	8699.9	8382.3	8223.4
65°	3390.6	3338.2	3672.8	4391.8	5659.6	7671.8	9140.9	9346.6	8847.4	8556.7
67.5°	2078.9	2066.1	2388.0	3021.9	4234.4	6528.8	8833.2	8993.5	8718.4	8485.8
70°	1070.7	1038.0	1239.4	1686.1	2661.7	4790.3	7687.4	7844.8	8107.2	7610.8
72.5°	499.2	492.1	599.8	829.6	1355.7	2816.3	5953.1	6066.5	6619.6	6416.8
75°	293.5	297.8	358.8	433.9	660.8	1327.3	3950.8	4170.6	4770.4	4624.4
77.5°	219.8	219.8	255.3	302.1	385.7	513.3	1949.9	2240.6	2789.4	2508.6
80°	161.7	164.5	195.7	226.9	268.0	265.2	774.3	907.6	1279.1	1093.3
82.5°	126.2	130.5	151.7	168.8	188.6	160.2	317.6	341.8	526.1	418.3
85°	87.9	90.8	119.1	114.9	114.9	89.3	131.9	139.0	208.5	198.5
87.5°	21.3	24.1	58.1	63.8	48.2	26.9	41.1	46.8	75.2	86.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477492  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1626.5	0°	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5
1654.9	2.5°	1633.6	1639.3	1663.4	1650.6	1657.7	1628.0	1652.1	1632.2	1649.2	1640.7
1667.7	5°	1679.0	1666.2	1680.4	1670.5	1670.5	1681.8	1698.9	1686.1	1711.6	1700.3
1677.6	7.5°	1697.4	1698.9	1707.4	1708.8	1701.7	1737.1	1738.6	1734.3	1758.4	1752.7
1745.7	10°	1742.8	1744.2	1759.8	1768.3	1761.3	1774.0	1759.8	1748.5	1747.1	1741.4
1799.5	12.5°	1815.1	1829.3	1826.5	1833.6	1835.0	1781.1	1748.5	1693.2	1686.1	1693.2
1879.0	15°	1881.8	1876.1	1879.0	1893.1	1833.6	1747.1	1688.9	1642.1	1645.0	1646.4
1982.5	17.5°	1961.2	1965.5	1969.7	1904.5	1795.3	1693.2	1642.1	1642.1	1628.0	1633.6
2054.8	20°	2052.0	2034.9	1998.1	1905.9	1728.6	1630.8	1615.2	1615.2	1598.2	1586.8
2132.8	22.5°	2122.9	2088.8	2033.5	1861.9	1669.1	1606.7	1568.4	1541.5	1521.6	1498.9
2219.3	25°	2168.2	2149.8	2042.0	1816.6	1625.1	1542.9	1486.1	1445.0	1419.5	1389.7
2287.4	27.5°	2237.7	2202.3	2066.1	1764.1	1576.9	1479.1	1391.1	1327.3	1279.1	1247.9
2390.9	30°	2331.3	2280.3	2049.1	1688.9	1503.2	1368.4	1264.9	1182.7	1127.4	1101.8
2488.7	32.5°	2407.9	2341.2	2034.9	1620.9	1420.9	1256.4	1118.9	1035.2	1004.0	971.4
2653.2	35°	2554.0	2422.1	2025.0	1582.6	1347.2	1144.4	999.7	927.4	887.7	839.5
2751.1	37.5°	2666.0	2562.5	2000.9	1503.2	1252.2	1035.2	909.0	843.8	784.2	733.1
2978.0	40°	2841.8	2758.2	2002.3	1391.1	1140.1	941.6	838.1	770.0	694.9	650.9
3314.1	42.5°	3172.2	2951.0	2010.8	1301.8	1013.9	865.0	774.3	693.4	618.3	581.4
3696.9	45°	3577.8	3216.2	1958.4	1221.0	884.9	792.7	697.7	616.9	568.6	541.7
4217.4	47.5°	4044.4	3475.7	1887.5	1069.2	777.1	716.1	626.8	580.0	544.5	528.9
4888.1	50°	4566.2	3847.3	1867.6	930.3	693.4	650.9	592.8	557.3	533.2	514.8
5644.0	52.5°	5238.4	4279.8	1827.9	787.0	621.1	598.4	580.0	555.9	534.6	519.0
6348.7	55°	5880.8	4759.1	1785.4	669.3	570.1	572.9	582.8	561.6	543.1	519.0
7138.6	57.5°	6604.0	5248.3	1628.0	582.8	531.8	560.1	580.0	555.9	537.5	519.0
7946.9	60°	7050.7	5523.4	1320.2	507.7	497.7	536.0	563.0	537.5	517.6	524.7
8318.5	62.5°	7232.2	5378.8	995.5	460.9	473.6	503.4	536.0	526.1	511.9	538.9
8314.2	65°	6923.1	5045.5	711.9	421.2	441.0	470.8	511.9	523.3	527.5	580.0
7636.4	67.5°	6160.1	4393.2	523.3	388.6	407.0	450.9	528.9	547.4	544.5	609.8
6408.3	70°	4929.2	3436.0	408.4	361.6	394.2	466.5	553.1	553.1	533.2	609.8
4888.1	72.5°	3586.3	2422.1	351.7	330.4	361.6	428.3	550.2	548.8	523.3	557.3
3112.7	75°	2171.1	1409.6	310.6	299.2	310.6	367.3	526.1	517.6	482.1	479.3
1497.5	77.5°	1082.0	709.0	253.8	265.2	270.9	307.7	462.3	475.1	426.8	415.5
591.3	80°	456.6	309.1	211.3	228.3	228.3	259.5	384.3	392.8	354.5	333.2
234.0	82.5°	208.5	177.3	180.1	198.5	185.8	201.4	304.9	314.8	287.9	252.4
99.3	85°	87.9	100.7	137.6	156.0	137.6	130.5	209.9	221.2	187.2	156.0
42.5	87.5°	39.7	55.3	86.5	113.4	69.5	61.0	112.0	116.3	93.6	69.5
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°  
1626.5  
1625.1  
1684.7  
1744.2  
1741.4  
1696.0  
1666.2  
1635.0  
1569.8  
1486.1  
1395.4  
1262.1  
1116.0  
970.0  
835.2  
734.6  
655.2  
584.2  
547.4  
526.1  
517.6  
517.6  
517.6  
517.6  
519.0  
531.8  
*580.0*  
614.0  
597.0  
537.5  
473.6  
408.4  
326.2  
246.7  
157.4  
65.2  
0.0

F REPORT)