

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: P477884

Luminaire Tested: **IFLD-S-SA3B-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477884
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

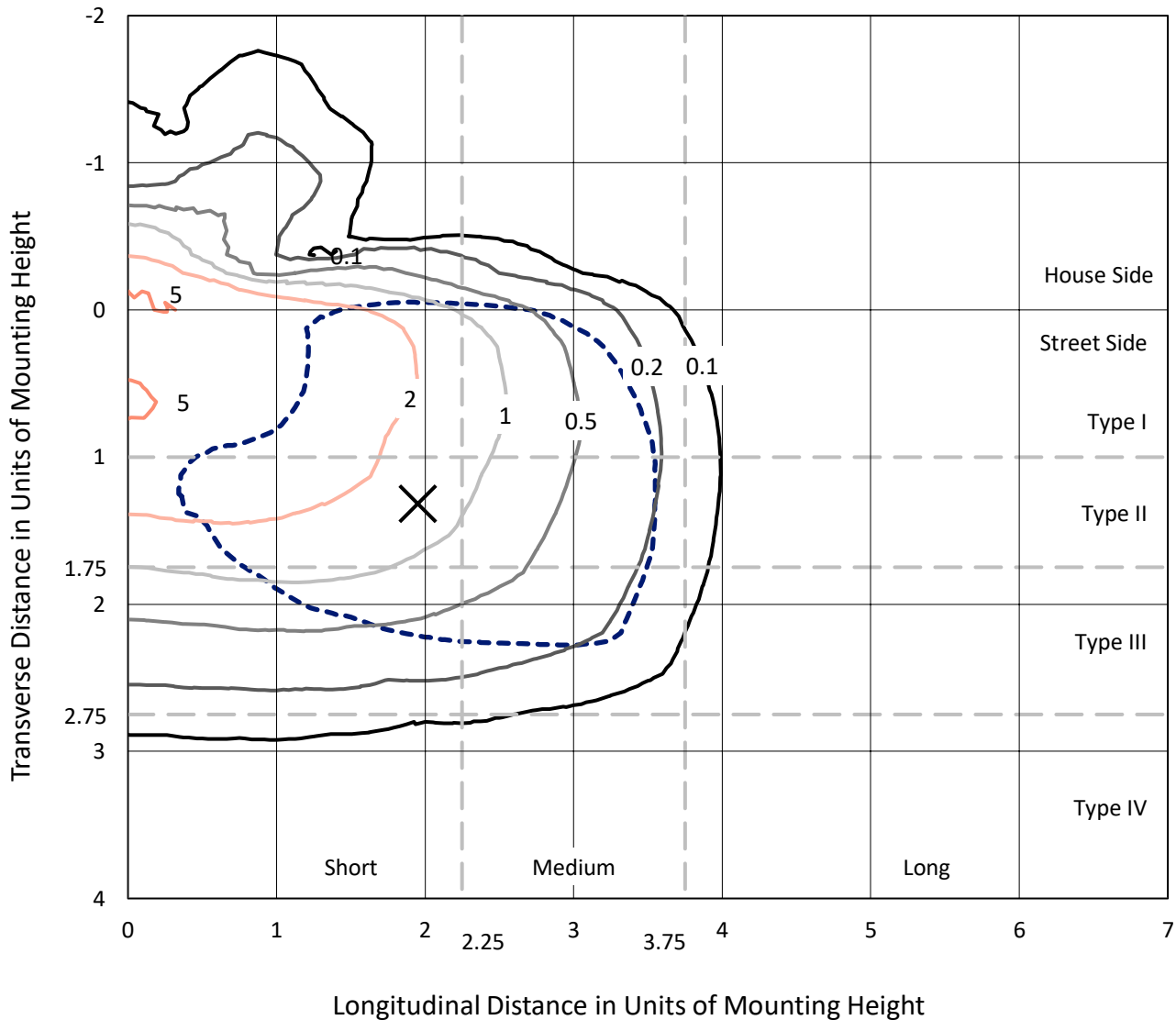
Lumens per Lamp: N/A
Luminaire Lumens: 12286.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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: P477884
 CATALOG NUMBER: IFLD-S-SA3B-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

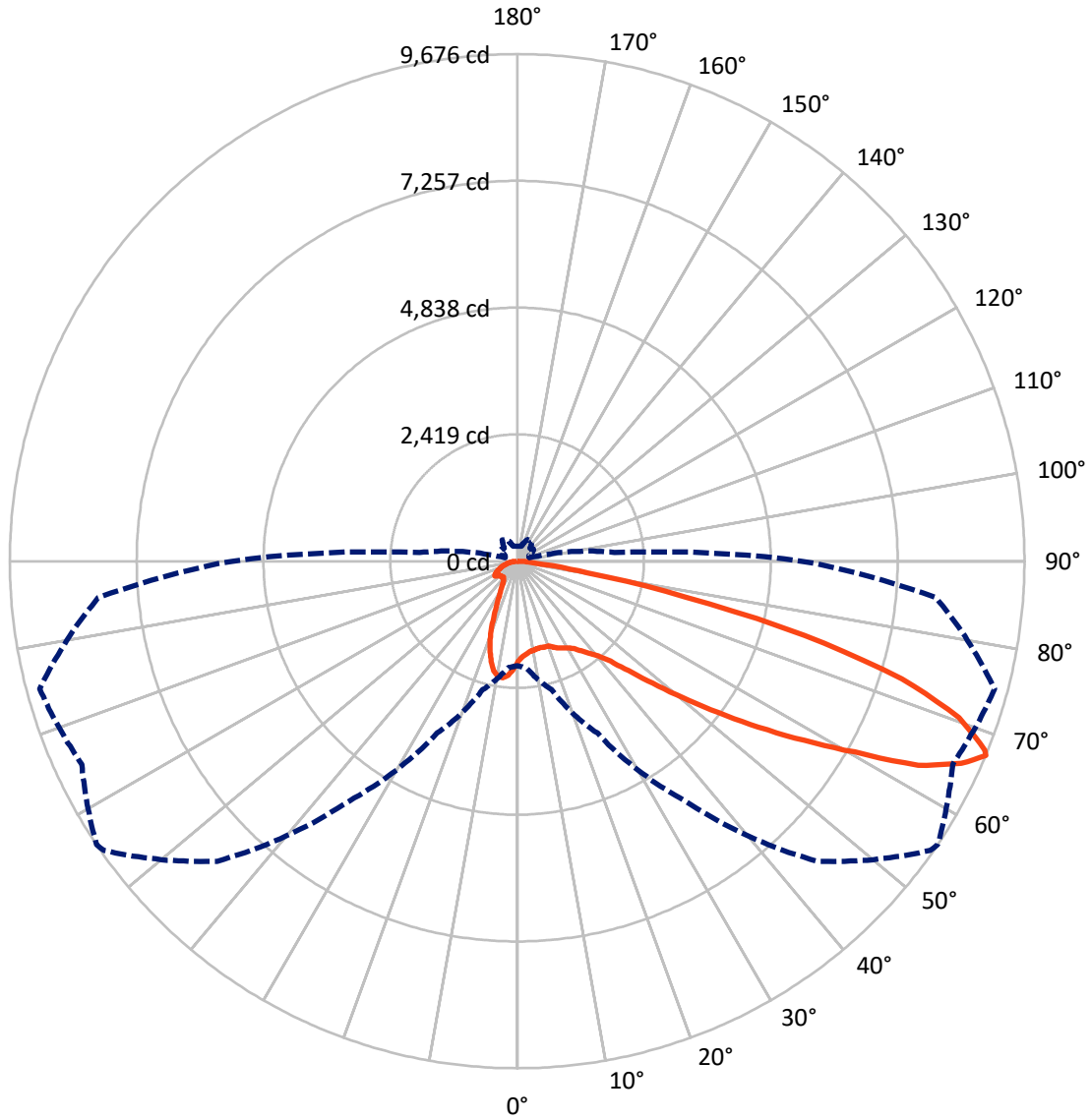
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P477884
CATALOG NUMBER: IFLD-S-SA3B-827-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477884
 CATALOG NUMBER: IFLD-S-SA3B-827-U-T3R

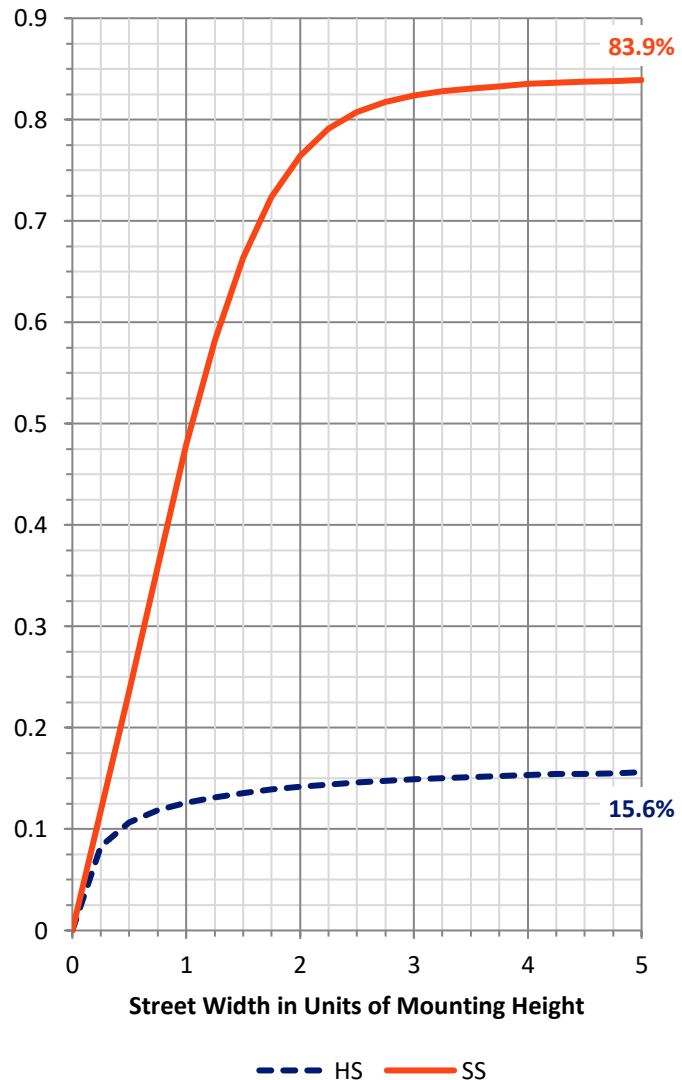
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1945.2	0.0	1945.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	10341.8	0.0	10341.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	12286.9	0.0	12286.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	1.5
10°-20°	502.5	4.1
20°-30°	788.0	6.4
30°-40°	1124.9	9.2
40°-50°	1697.8	13.8
50°-60°	2702.6	22.0
60°-70°	3455.1	28.1
70°-80°	1684.6	13.7
80°-90°	147.4	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°	12286.9	100.0
0°-180°	12286.9	100.0

Coefficient of Utilization

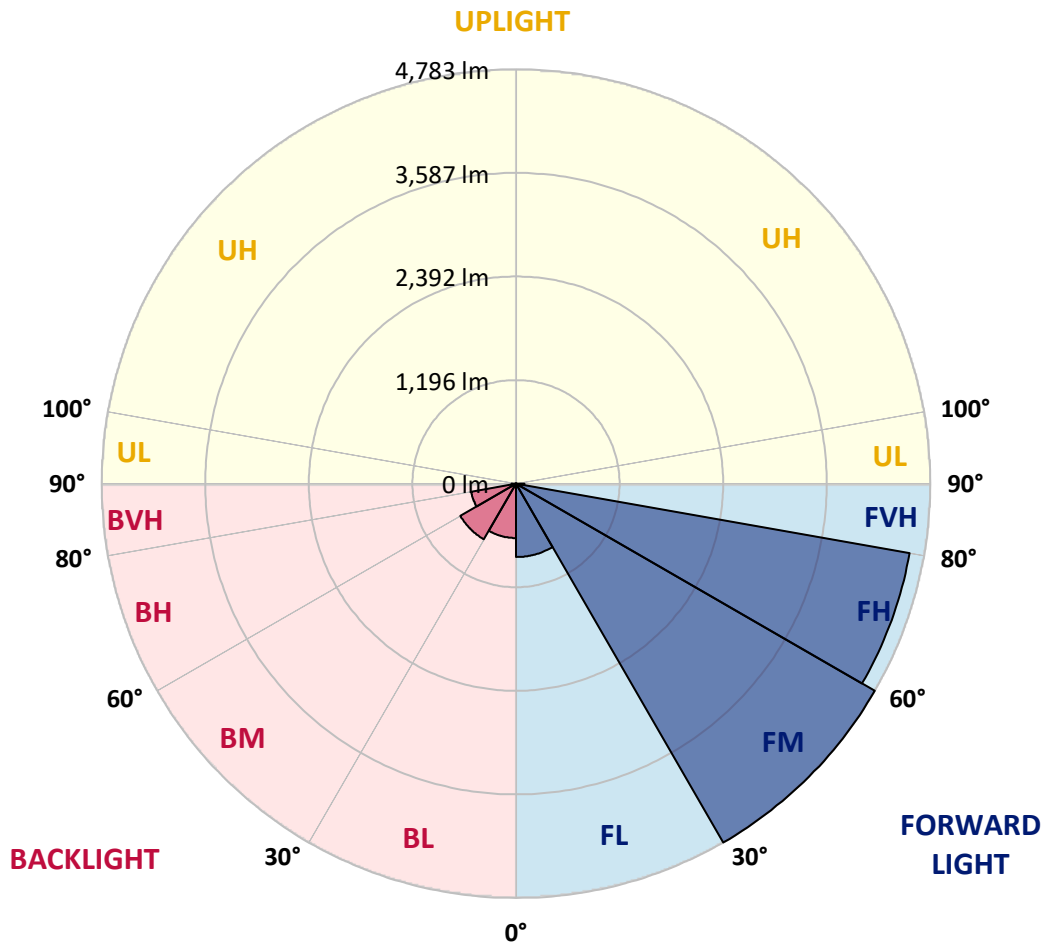


REPORT NUMBER: P477884
 CATALOG NUMBER: IFLD-S-SA3B-827-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.7	6.9			
FM (30°-60°)	4783.2	38.9			
FH (60°-80°)	4614.0	37.6			G2/5000
FVH (80°-90°)	97.9	0.8			G1/100
BL (0°-30°)	627.9	5.1	B2/1000		
BM (30°-60°)	742.1	6.0	B1/1000		
BH (60°-80°)	525.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	49.5	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: P477884
 CATALOG NUMBER: IFLD-S-SA3B-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8
2.5°	1756.2	1749.0	1757.7	1749.0	1787.9	1811.0	1818.2	1828.3	1864.3	1898.8
5°	1682.7	1651.0	1685.6	1697.1	1700.0	1738.9	1779.3	1786.5	1805.2	1861.4
7.5°	1560.3	1596.3	1583.3	1617.9	1653.9	1692.8	1759.1	1740.4	1809.5	1862.8
10°	1534.3	1537.2	1551.6	1564.6	1596.3	1646.7	1738.9	1727.4	1798.0	1911.8
12.5°	1560.3	1560.3	1556.0	1545.9	1581.9	1630.9	1704.4	1710.1	1821.0	1926.2
15°	1651.0	1668.3	1622.2	1629.4	1615.0	1630.9	1695.7	1708.7	1829.7	1937.7
17.5°	1872.9	1867.2	1812.4	1736.0	1672.7	1662.6	1707.2	1721.6	1821.0	1970.9
20°	2089.0	2077.5	1982.4	1903.2	1777.8	1718.8	1726.0	1727.4	1835.5	1992.5
22.5°	2329.6	2359.9	2256.1	2094.8	1939.2	1792.2	1763.4	1786.5	1868.6	2004.0
25°	2707.1	2642.2	2552.9	2341.1	2090.5	1906.1	1825.4	1836.9	1900.3	2032.8
27.5°	2979.4	2953.4	2813.7	2642.2	2302.2	1995.4	1858.5	1880.1	1957.9	2031.4
30°	3241.6	3241.6	3156.6	2900.1	2525.6	2145.2	1929.1	1919.0	1930.5	2028.5
32.5°	3548.5	3506.7	3384.2	3214.2	2806.5	2282.1	1985.3	1988.2	1988.2	2081.8
35°	3709.8	3777.5	3695.4	3418.8	3021.2	2509.7	2120.7	2099.1	2083.3	2140.9
37.5°	3946.1	3986.4	3900.0	3737.2	3287.7	2694.1	2240.3	2223.0	2130.8	2187.0
40°	4088.7	4081.5	4078.6	4003.7	3640.7	2911.7	2416.1	2371.4	2247.5	2349.8
42.5°	4169.4	4155.0	4332.2	4286.1	3973.5	3231.5	2636.5	2612.0	2475.1	2639.4
45°	4260.2	4366.8	4512.3	4641.9	4361.0	3681.0	3009.6	2975.1	2852.6	3061.5
47.5°	4339.4	4470.5	4656.4	4794.7	4711.1	4169.4	3470.7	3479.3	3398.6	3613.3
50°	4471.9	4484.9	4737.0	5016.5	5081.4	4620.3	4090.2	4075.7	4039.7	4340.8
52.5°	4431.6	4470.5	4788.9	5146.2	5252.8	5097.2	4755.8	4799.0	4751.4	5130.3
55°	3774.6	3891.3	4757.2	5283.1	5659.1	5636.0	5611.5	5582.7	5579.8	6017.8
57.5°	3476.4	3571.5	4191.0	5434.3	6094.2	6264.2	6422.7	6454.3	6452.9	6981.6
60°	3280.5	3378.4	3961.9	5352.2	6464.4	7086.8	7390.8	7395.1	7386.5	8011.7
62.5°	2897.3	2992.3	3565.7	4902.7	6566.7	7846.1	8523.2	8579.4	8183.2	8899.2
65°	2436.2	2514.0	3019.7	4215.5	6294.4	8328.7	9374.7	9308.4	8854.6	9406.4
67°	1992.5	2044.4	2537.1	3619.0	5582.7	8096.8	9621.0	9675.8	9164.3	9428.0
67.5°	1865.7	1913.3	2378.6	3415.9	5311.9	7921.0	9629.7	9621.0	9170.1	9432.3
70°	1295.2	1315.4	1620.8	2349.8	3912.9	6692.1	8926.6	8946.8	8785.4	8920.8
72.5°	858.7	888.9	1083.4	1481.0	2306.6	4869.6	7461.4	7677.5	7575.2	7314.4
75°	553.2	570.5	708.8	881.7	1135.3	2773.4	5512.1	5656.2	5421.4	4523.8
77.5°	309.8	328.5	427.9	535.9	553.2	1154.0	3096.1	3274.7	2774.8	1921.9
80°	193.1	217.5	322.7	318.4	263.6	423.6	1276.5	1367.2	1109.3	661.3
82.5°	145.5	164.2	249.2	223.3	148.4	188.7	478.3	512.9	406.3	255.0
85°	99.4	125.3	180.1	138.3	77.8	90.8	190.2	204.6	185.9	123.9
87.5°	36.0	53.3	93.6	69.2	34.6	27.4	62.0	69.2	66.3	56.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477884
 CATALOG NUMBER: IFLD-S-SA3B-827-U-T3R

CANDELA DISTRIBUTION (continued):

85°	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1911.8	0°	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8	1911.8
1929.1	2.5°	1956.5	1976.6	1986.7	2045.8	2070.3	2066.0	2071.7	2080.4	2089.0
1953.6	5°	1972.3	2034.3	2067.4	2136.6	2182.7	2162.5	2188.4	2181.2	2171.1
1998.3	7.5°	2024.2	2103.4	2202.8	2221.6	2241.7	2191.3	2148.1	2089.0	2074.6
2035.7	10°	2116.4	2181.2	2302.2	2309.4	2220.1	2090.5	1993.9	1871.5	1870.0
2093.3	12.5°	2204.3	2277.8	2375.7	2333.9	2120.7	1943.5	1786.5	1652.5	1596.3
2127.9	15°	2259.0	2380.0	2431.9	2251.8	1946.4	1707.2	1504.1	1360.0	1302.4
2171.1	17.5°	2309.4	2478.0	2455.0	2107.7	1731.7	1463.8	1221.7	1096.4	1080.5
2240.3	20°	2378.6	2514.0	2372.8	1920.5	1488.2	1149.7	995.5	935.0	949.4
2247.5	22.5°	2443.4	2532.8	2269.1	1715.9	1175.6	910.5	834.2	847.1	868.7
2264.8	25°	2472.2	2563.0	2129.4	1433.5	894.7	766.5	749.2	770.8	806.8
2289.3	27.5°	2491.0	2541.4	1960.8	1158.3	707.4	669.9	695.9	711.7	716.0
2341.1	30°	2524.1	2496.7	1747.6	828.4	593.6	595.0	628.1	628.1	628.1
2393.0	32.5°	2581.7	2466.5	1498.3	605.1	511.4	557.6	548.9	546.0	540.3
2459.3	35°	2617.8	2384.4	1182.8	448.1	459.6	511.4	508.6	463.9	389.0
2627.8	37.5°	2692.7	2342.6	870.2	345.8	429.3	488.4	472.6	364.5	282.4
2836.7	40°	2854.0	2315.2	602.2	302.5	409.2	476.9	422.1	311.2	216.1
3159.5	42.5°	3051.4	2316.7	409.2	285.3	410.6	501.4	406.3	266.5	152.7
3590.2	45°	3316.5	2295.0	280.9	285.3	436.5	541.7	416.4	242.0	148.4
4130.5	47.5°	3601.8	2313.8	208.9	259.3	440.9	543.1	380.3	237.7	142.6
4718.3	50°	3934.6	2332.5	172.9	239.2	442.3	525.9	350.1	232.0	148.4
5392.6	52.5°	4277.4	2391.6	147.0	226.2	459.6	518.7	350.1	240.6	148.4
6251.2	55°	4788.9	2542.8	211.8	282.4	523.0	566.2	430.8	337.1	207.5
7073.9	57.5°	5353.7	2698.4	236.3	296.8	537.4	510.0	463.9	371.7	219.0
7713.5	60°	5725.4	2704.2	234.8	289.6	502.8	440.9	453.8	391.9	223.3
8109.7	62.5°	5873.7	2528.4	244.9	289.6	468.2	412.0	465.3	422.1	230.5
8222.1	65°	5705.2	2165.4	236.3	259.3	412.0	368.8	468.2	427.9	252.1
8020.4	67°	5441.5	1865.7	240.6	246.4	383.2	350.1	492.7	449.5	292.5
7915.2	67.5°	5366.6	1786.5	239.2	239.2	373.1	344.3	498.5	449.5	298.2
6986.0	70°	4729.8	1447.9	244.9	236.3	329.9	327.0	530.2	474.0	342.9
5131.8	72.5°	3600.3	1097.8	243.5	236.3	286.7	312.6	534.5	489.8	373.1
2874.2	75°	2045.8	657.0	214.7	206.0	226.2	272.3	499.9	466.8	363.1
1148.2	77.5°	845.7	338.6	197.4	185.9	187.3	221.9	416.4	435.1	345.8
383.2	80°	315.5	203.1	158.5	148.4	144.1	162.8	296.8	347.2	295.3
168.6	82.5°	164.2	126.8	108.1	108.1	98.0	103.7	159.9	230.5	223.3
67.7	85°	83.6	72.0	62.0	60.5	54.7	49.0	80.7	136.9	128.2
30.3	87.5°	44.7	40.3	25.9	24.5	20.2	13.0	14.4	27.4	44.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



<u>180°</u>
1911.8
2112.1
2182.7
2041.5
1793.7
1550.2
1269.3
1070.4
948.0
881.7
822.6
749.2
655.5
515.8
368.8
244.9
148.4
119.6
158.5
200.3
220.4
170.0
224.7
213.2
194.5
239.2
233.4
280.9
289.6
319.8
306.9
276.6
249.2
197.4
116.7
67.7
25.9
0.0

F REPORT)