

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: P477219

Luminaire Tested: **IFLD-S-SA2E-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477219
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

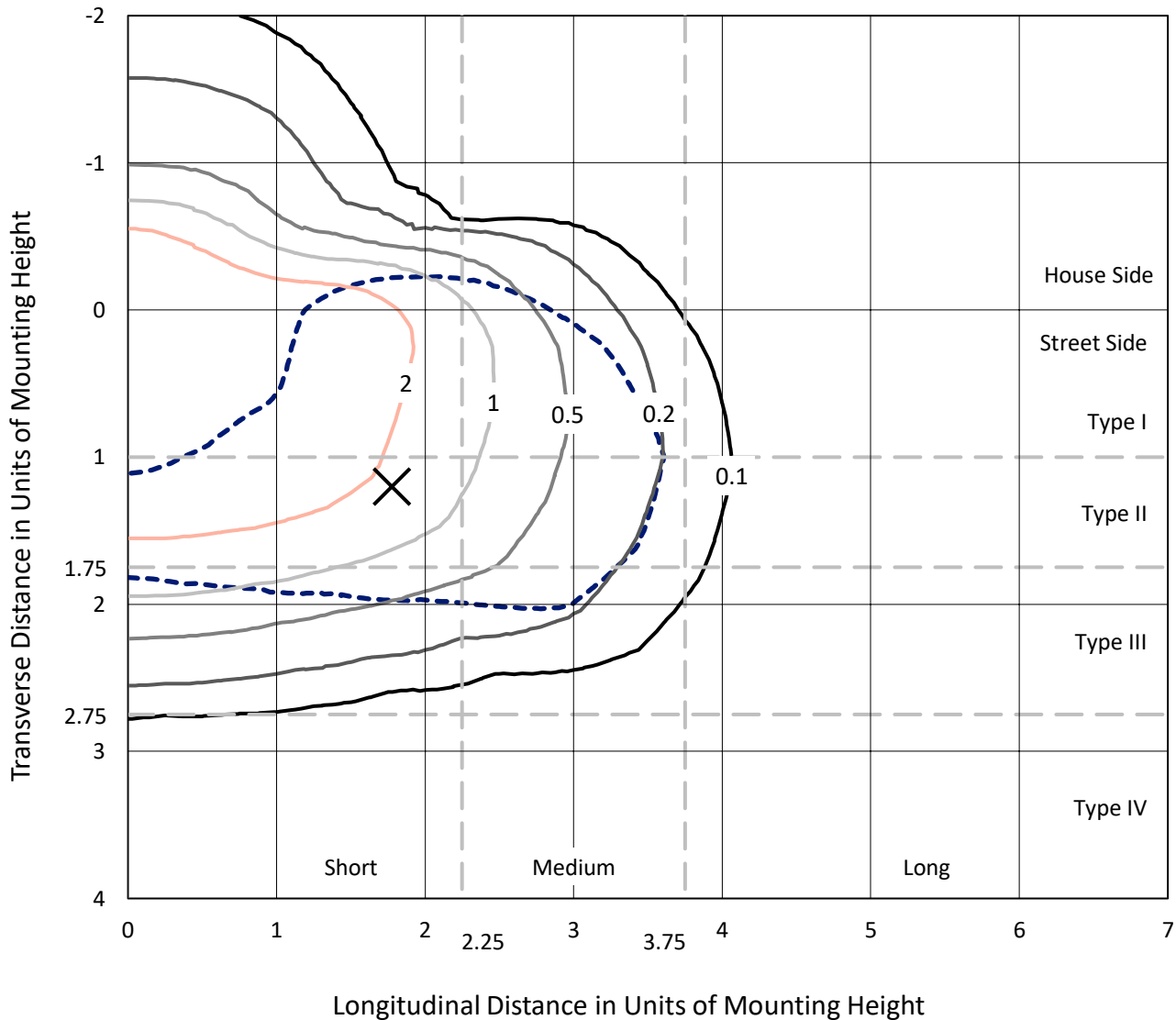
Lumens per Lamp: N/A
Luminaire Lumens: 13578.9 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (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: P477219
 CATALOG NUMBER: IFLD-S-SA2E-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

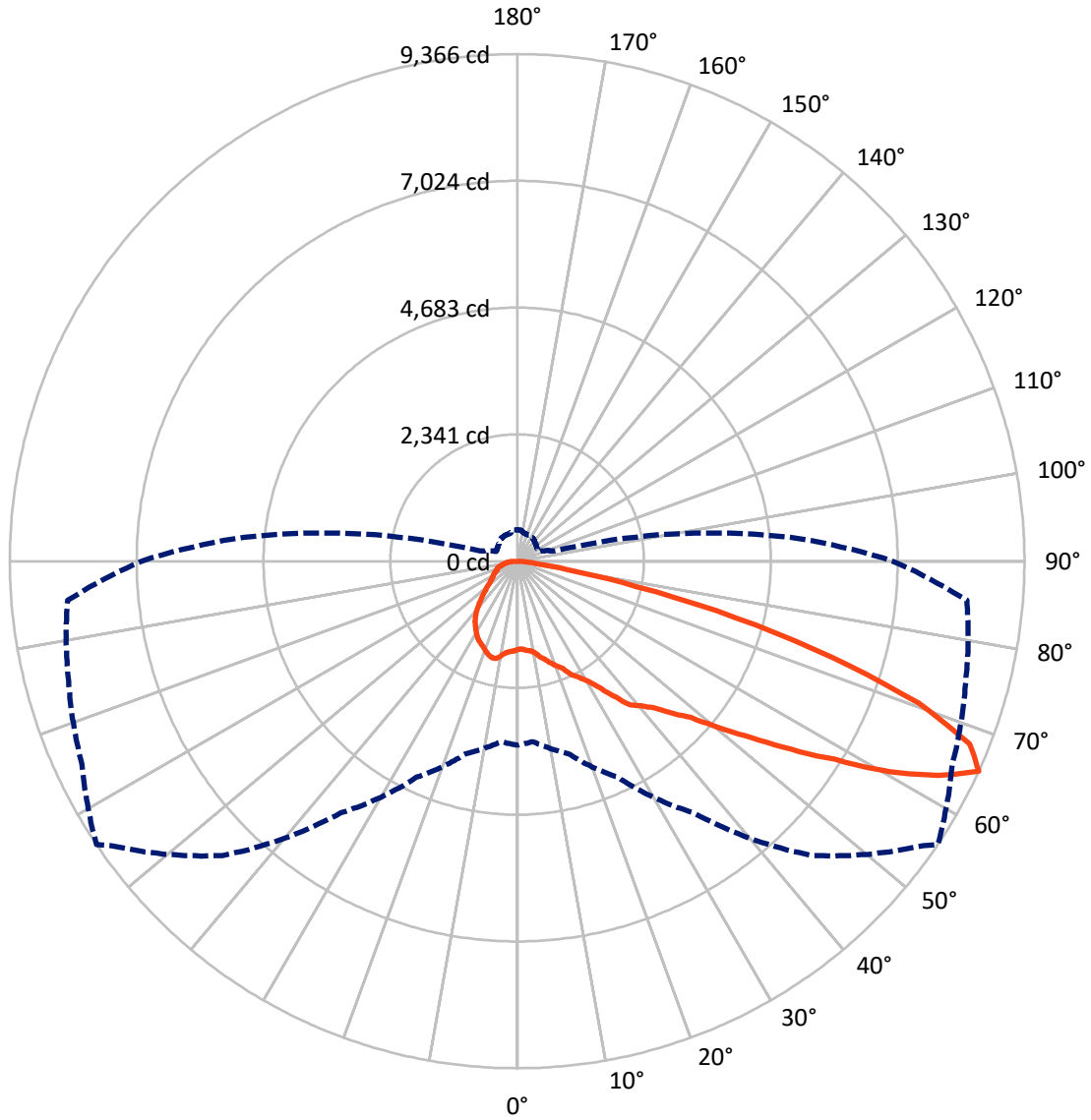
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P477219
CATALOG NUMBER: IFLD-S-SA2E-722-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477219
 CATALOG NUMBER: IFLD-S-SA2E-722-U-T3

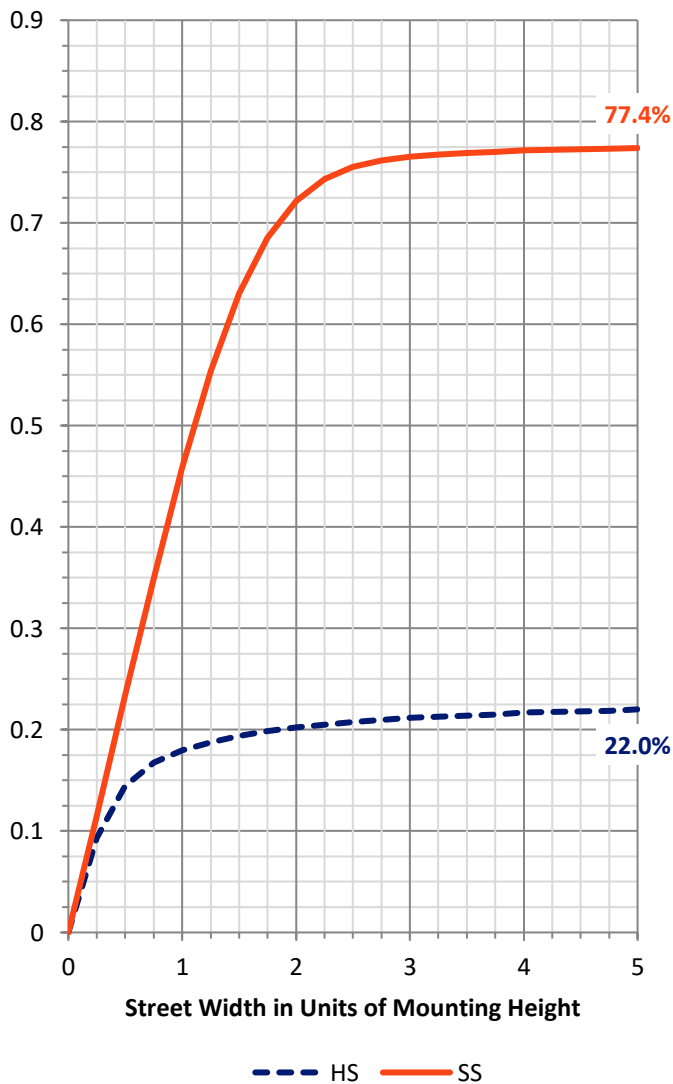
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3045.3	0.0	3045.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	10533.6	0.0	10533.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	13578.9	0.0	13578.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	1.2
10°-20°	524.5	3.9
20°-30°	933.8	6.9
30°-40°	1398.4	10.3
40°-50°	2071.9	15.3
50°-60°	3192.5	23.5
60°-70°	3614.2	26.6
70°-80°	1499.9	11.0
80°-90°	182.2	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°	13578.9	100.0
0°-180°	13578.9	100.0

Coefficient of Utilization



REPORT NUMBER: P477219

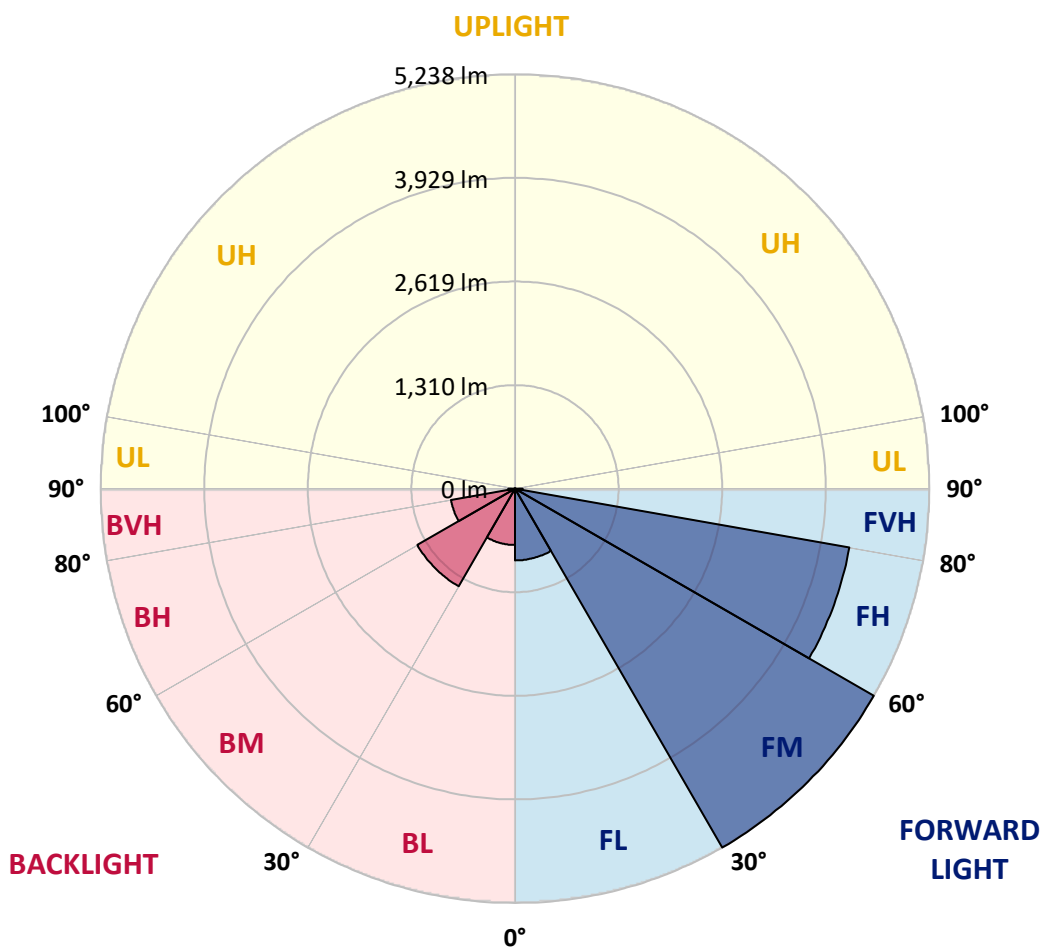
CATALOG NUMBER: IFLD-S-SA2E-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.5	6.7			
FM (30°-60°)	5238.1	38.6			
FH (60°-80°)	4291.9	31.6			G2/5000
FVH (80°-90°)	96.1	0.7			G1/100
BL (0°-30°)	712.3	5.2	B2/1000		
BM (30°-60°)	1424.5	10.5	B2/2500		
BH (60°-80°)	822.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	86.1	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: P477219
 CATALOG NUMBER: IFLD-S-SA2E-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1587.2	1595.8	1590.1	1607.1	1621.3	1621.3	1632.7	1624.2	1635.5	1651.2
5°	1639.8	1605.7	1624.2	1632.7	1628.4	1635.5	1624.2	1652.6	1634.1	1664.0
7.5°	1652.6	1665.4	1681.0	1666.8	1679.6	1672.5	1673.9	1669.6	1659.7	1683.9
10°	1746.4	1727.9	1763.4	1742.1	1739.3	1736.4	1730.7	1709.4	1733.6	1735.0
12.5°	1854.4	1837.3	1835.9	1818.8	1841.6	1800.4	1808.9	1797.5	1801.8	1807.5
15°	1932.5	1925.4	1958.1	1938.2	1908.4	1889.9	1909.8	1878.5	1894.2	1891.3
17.5°	2087.4	2086.0	2061.8	2029.1	2012.1	1985.1	1980.8	1968.0	1979.4	1973.7
20°	2195.4	2211.0	2215.3	2176.9	2111.6	2081.7	2074.6	2064.7	2077.5	2073.2
22.5°	2360.2	2336.1	2354.6	2287.8	2263.6	2192.6	2167.0	2152.8	2213.9	2198.2
25°	2465.4	2491.0	2472.5	2449.8	2395.8	2307.7	2289.2	2320.4	2344.6	2327.6
27.5°	2702.7	2677.1	2660.1	2591.9	2556.3	2464.0	2442.7	2431.3	2437.0	2446.9
30°	2883.2	2897.4	2859.0	2810.7	2721.2	2627.4	2577.6	2567.7	2547.8	2530.8
32.5°	3140.4	3119.0	3096.3	3065.0	2988.3	2864.7	2816.4	2779.4	2719.7	2640.2
35°	3264.0	3325.1	3308.0	3224.2	3165.9	3119.0	3104.8	3048.0	2998.3	2873.2
37.5°	3470.0	3495.6	3471.4	3444.4	3417.4	3367.7	3350.7	3366.3	3268.2	3062.2
40°	3603.6	3657.6	3707.3	3632.0	3626.3	3636.3	3531.1	3512.6	3310.9	3202.9
42.5°	3876.4	3899.2	3909.1	3906.3	3938.9	3938.9	3738.6	3698.8	3555.3	3467.2
45°	4237.3	4255.8	4291.3	4316.9	4280.0	4298.4	4012.8	3997.2	3869.3	3852.3
47.5°	4550.0	4594.0	4673.6	4748.9	4797.2	4734.7	4422.1	4311.2	4278.6	4380.9
50°	4822.8	4770.2	4956.4	5033.1	5244.8	5348.5	4873.9	4829.9	4777.3	4973.4
52.5°	4849.8	4920.8	5183.7	5337.2	5773.4	5965.2	5428.1	5409.6	5345.7	5571.6
55°	5043.0	5034.5	5298.8	5631.3	6150.0	6472.5	6150.0	6138.6	5999.3	6213.9
57.5°	5010.4	5097.0	5305.9	5770.6	6489.6	7016.8	6986.9	6908.8	6714.1	6888.9
60°	4899.5	4922.3	5176.6	5766.3	6687.1	7575.2	7890.7	7906.3	7508.4	7647.7
62.5°	4271.4	4324.0	4646.6	5313.0	6546.4	7960.3	8773.1	8717.7	8399.4	8240.2
65°	3397.5	3345.0	3680.3	4400.8	5671.1	7687.5	9159.6	9365.6	8865.5	8574.2
67.5°	2083.1	2070.4	2392.9	3028.1	4243.0	6542.2	8851.2	9011.8	8736.1	8503.1
70°	1072.8	1040.2	1241.9	1689.5	2667.2	4800.0	7703.1	7860.8	8123.7	7626.4
72.5°	500.2	493.1	601.1	831.3	1358.5	2822.1	5965.2	6078.9	6633.1	6429.9
75°	294.1	298.4	359.5	434.8	662.2	1330.0	3958.8	4179.1	4780.2	4633.8
77.5°	220.3	220.3	255.8	302.7	386.5	514.4	1953.8	2245.1	2795.1	2513.7
80°	162.0	164.8	196.1	227.4	268.6	265.7	775.9	909.4	1281.7	1095.6
82.5°	126.5	130.7	152.0	169.1	189.0	160.6	318.3	342.5	527.2	419.2
85°	88.1	90.9	119.4	115.1	115.1	89.5	132.2	139.3	208.9	198.9
87.5°	21.3	24.2	58.3	63.9	48.3	27.0	41.2	46.9	75.3	86.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477219
 CATALOG NUMBER: IFLD-S-SA2E-722-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1629.9	0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
1658.3	2.5°	1637.0	1642.6	1666.8	1654.0	1661.1	1631.3	1655.4	1635.5	1652.6	1644.1
1671.1	5°	1682.4	1669.6	1683.9	1673.9	1673.9	1685.3	1702.3	1689.5	1715.1	1703.7
1681.0	7.5°	1700.9	1702.3	1710.9	1712.3	1705.2	1740.7	1742.1	1737.9	1762.0	1756.3
1749.2	10°	1746.4	1747.8	1763.4	1772.0	1764.8	1777.6	1763.4	1752.1	1750.6	1745.0
1803.2	12.5°	1818.8	1833.1	1830.2	1837.3	1838.7	1784.7	1752.1	1696.6	1689.5	1696.6
1882.8	15°	1885.6	1879.9	1882.8	1897.0	1837.3	1750.6	1692.4	1645.5	1648.3	1649.7
1986.5	17.5°	1965.2	1969.5	1973.7	1908.4	1799.0	1696.6	1645.5	1645.5	1631.3	1637.0
2059.0	20°	2056.1	2039.1	2002.2	1909.8	1732.2	1634.1	1618.5	1618.5	1601.4	1590.1
2137.1	22.5°	2127.2	2093.1	2037.7	1865.7	1672.5	1610.0	1571.6	1544.6	1524.7	1502.0
2223.8	25°	2172.7	2154.2	2046.2	1820.3	1628.4	1546.0	1489.2	1448.0	1422.4	1392.6
2292.0	27.5°	2242.3	2206.8	2070.4	1767.7	1580.1	1482.1	1394.0	1330.0	1281.7	1250.5
2395.8	30°	2336.1	2284.9	2053.3	1692.4	1506.2	1371.2	1267.5	1185.1	1129.7	1104.1
2493.8	32.5°	2412.8	2346.0	2039.1	1624.2	1423.8	1259.0	1121.1	1037.3	1006.0	973.4
2658.6	35°	2559.2	2427.0	2029.1	1585.8	1349.9	1146.7	1001.8	929.3	889.5	841.2
2756.7	37.5°	2671.4	2567.7	2005.0	1506.2	1254.7	1037.3	910.8	845.5	785.8	734.6
2984.0	40°	2847.6	2763.8	2006.4	1394.0	1142.5	943.5	839.8	771.6	696.3	652.2
3320.8	42.5°	3178.7	2957.0	2014.9	1304.5	1016.0	866.8	775.9	694.9	619.5	582.6
3704.5	45°	3585.1	3222.8	1962.4	1223.5	886.7	794.3	699.1	618.1	569.8	542.8
4226.0	47.5°	4052.6	3482.8	1891.3	1071.4	778.7	717.6	628.1	581.2	545.7	530.0
4898.1	50°	4575.5	3855.1	1871.4	932.2	694.9	652.2	594.0	558.4	534.3	515.8
5655.5	52.5°	5249.1	4288.5	1831.6	788.6	622.4	599.7	581.2	557.0	535.7	520.1
6361.7	55°	5892.8	4768.8	1789.0	670.7	571.2	574.1	584.0	562.7	544.2	520.1
7153.2	57.5°	6617.5	5259.0	1631.3	584.0	532.9	561.3	581.2	557.0	538.5	520.1
7963.1	60°	7065.1	5534.7	1322.9	508.7	498.8	537.1	564.1	538.5	518.7	525.8
8335.4	62.5°	7247.0	5389.8	997.5	461.8	474.6	504.4	537.1	527.2	513.0	540.0
8331.2	65°	6937.2	5055.8	713.3	422.0	441.9	471.8	513.0	524.3	528.6	581.2
7651.9	67.5°	6172.7	4402.2	524.3	389.3	407.8	451.9	530.0	548.5	545.7	611.0
6421.4	70°	4939.3	3443.0	409.2	362.3	395.0	467.5	554.2	554.2	534.3	611.0
4898.1	72.5°	3593.6	2427.0	352.4	331.1	362.3	429.1	551.3	549.9	524.3	558.4
3119.0	75°	2175.5	1412.4	311.2	299.8	311.2	368.0	527.2	518.7	483.1	480.3
1500.5	77.5°	1084.2	710.5	254.4	265.7	271.4	308.4	463.2	476.0	427.7	416.3
592.5	80°	457.6	309.8	211.7	228.8	228.8	260.0	385.1	393.6	355.2	333.9
234.5	82.5°	208.9	177.6	180.5	198.9	186.1	201.8	305.5	315.5	288.5	252.9
99.5	85°	88.1	100.9	137.8	156.3	137.8	130.7	210.3	221.7	187.6	156.3
42.6	87.5°	39.8	55.4	86.7	113.7	69.6	61.1	112.3	116.5	93.8	69.6
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>
1629.9
1628.4
1688.1
1747.8
1745.0
1699.5
1669.6
1638.4
1573.0
1489.2
1398.2
1264.7
1118.3
971.9
837.0
736.1
656.5
585.4
548.5
527.2
518.7
518.7
518.7
518.7
520.1
532.9
581.2
615.3
598.2
538.5
474.6
409.2
326.8
247.2
157.7
65.4
0.0

F REPORT)