

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: P477333

Luminaire Tested: **IFLD-S-SA2B-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477333
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

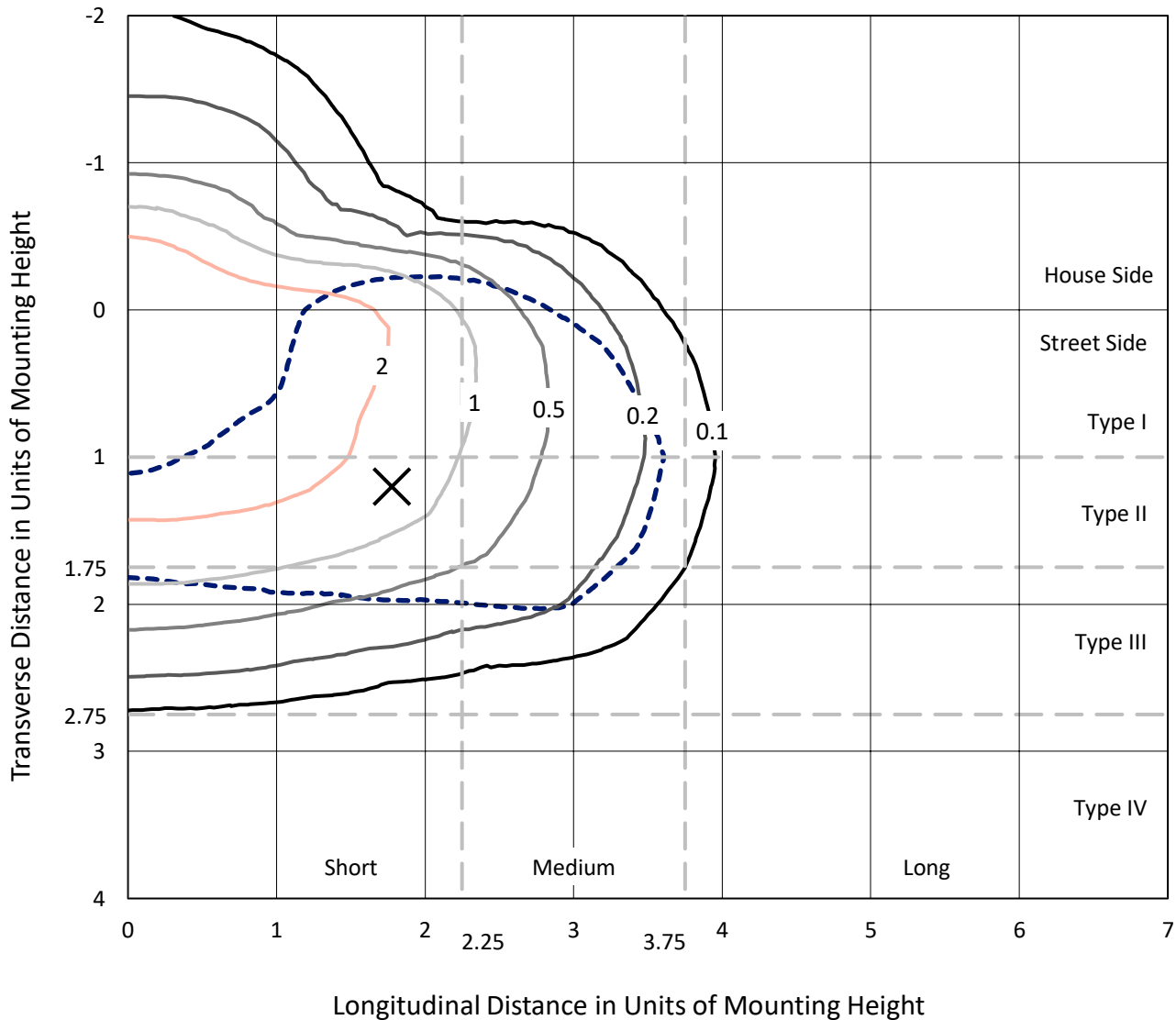
Lumens per Lamp: N/A
Luminaire Lumens: 11469.9 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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: P477333
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

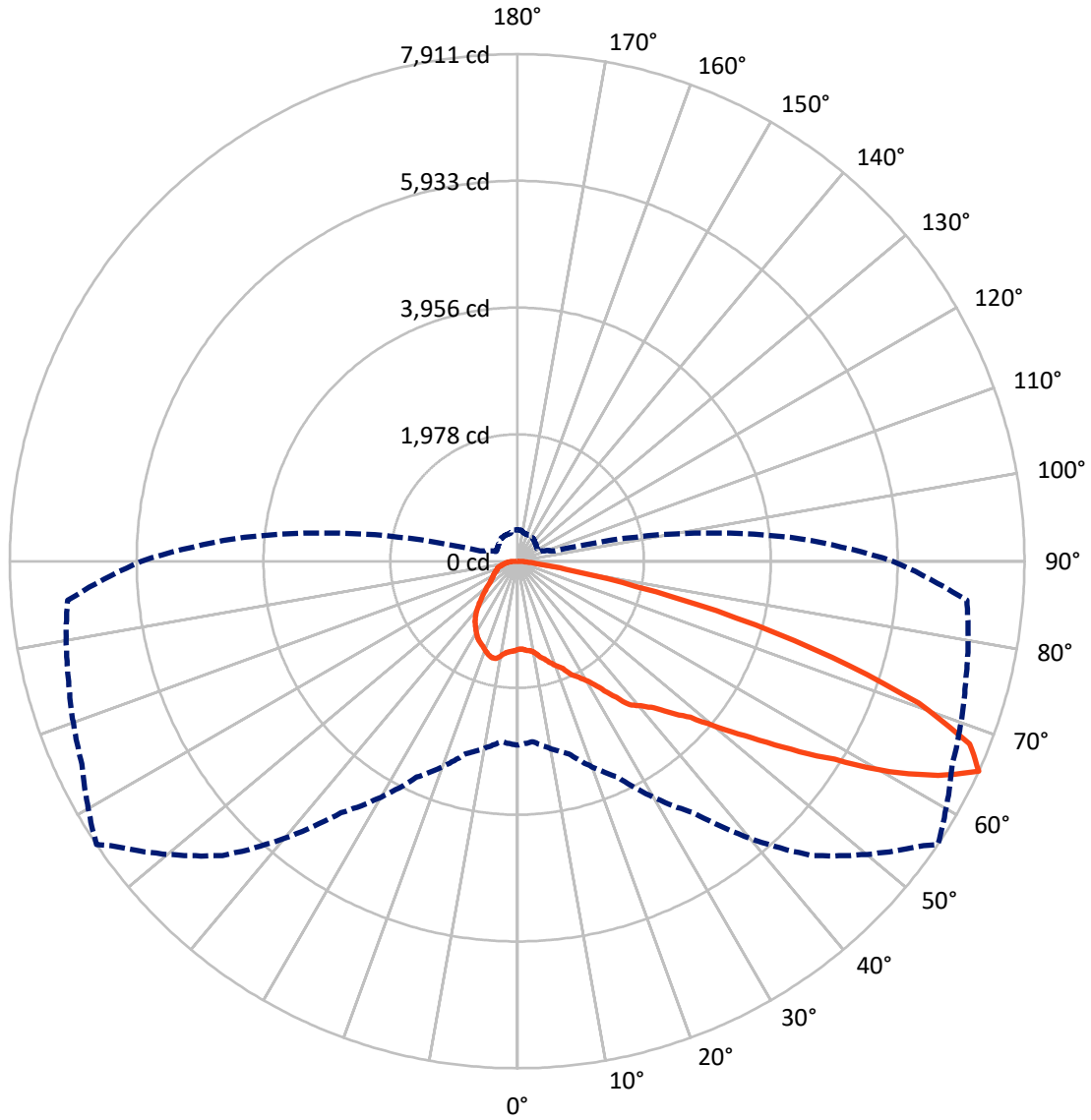
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

REPORT NUMBER: P477333
CATALOG NUMBER: IFLD-S-SA2B-735-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477333

CATALOG NUMBER: IFLD-S-SA2B-735-U-T3

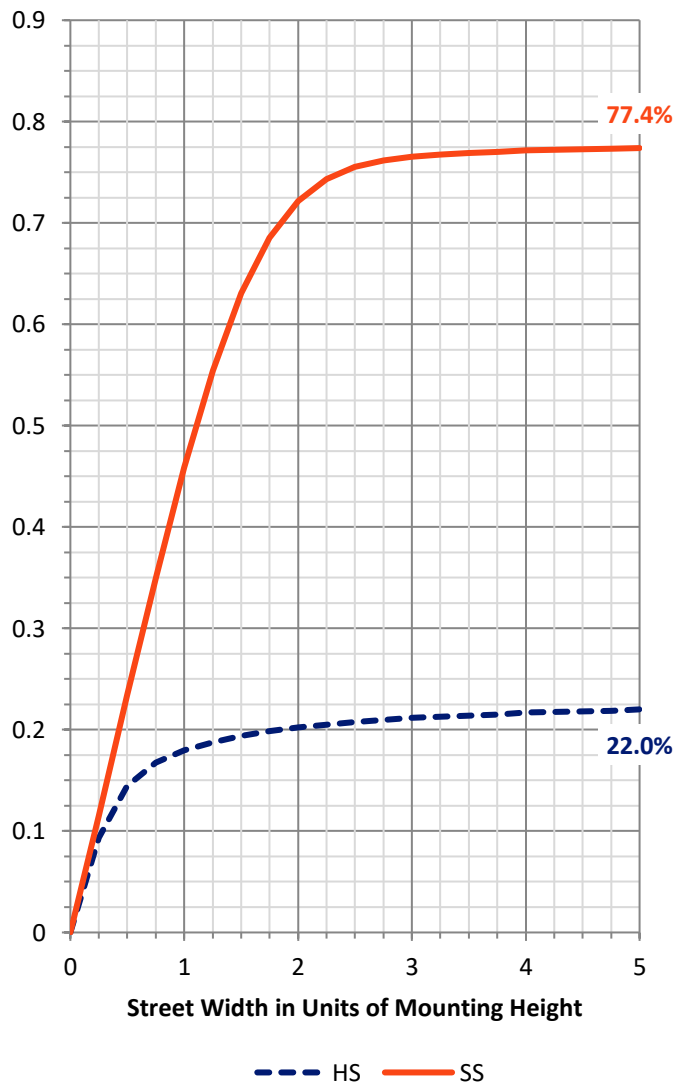
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2572.3	0.0	2572.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	8897.6	0.0	8897.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	11469.9	0.0	11469.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.2
10°-20°	443.0	3.9
20°-30°	788.8	6.9
30°-40°	1181.2	10.3
40°-50°	1750.1	15.3
50°-60°	2696.6	23.5
60°-70°	3052.9	26.6
70°-80°	1267.0	11.0
80°-90°	153.9	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°	11469.9	100.0
0°-180°	11469.9	100.0

Coefficient of Utilization

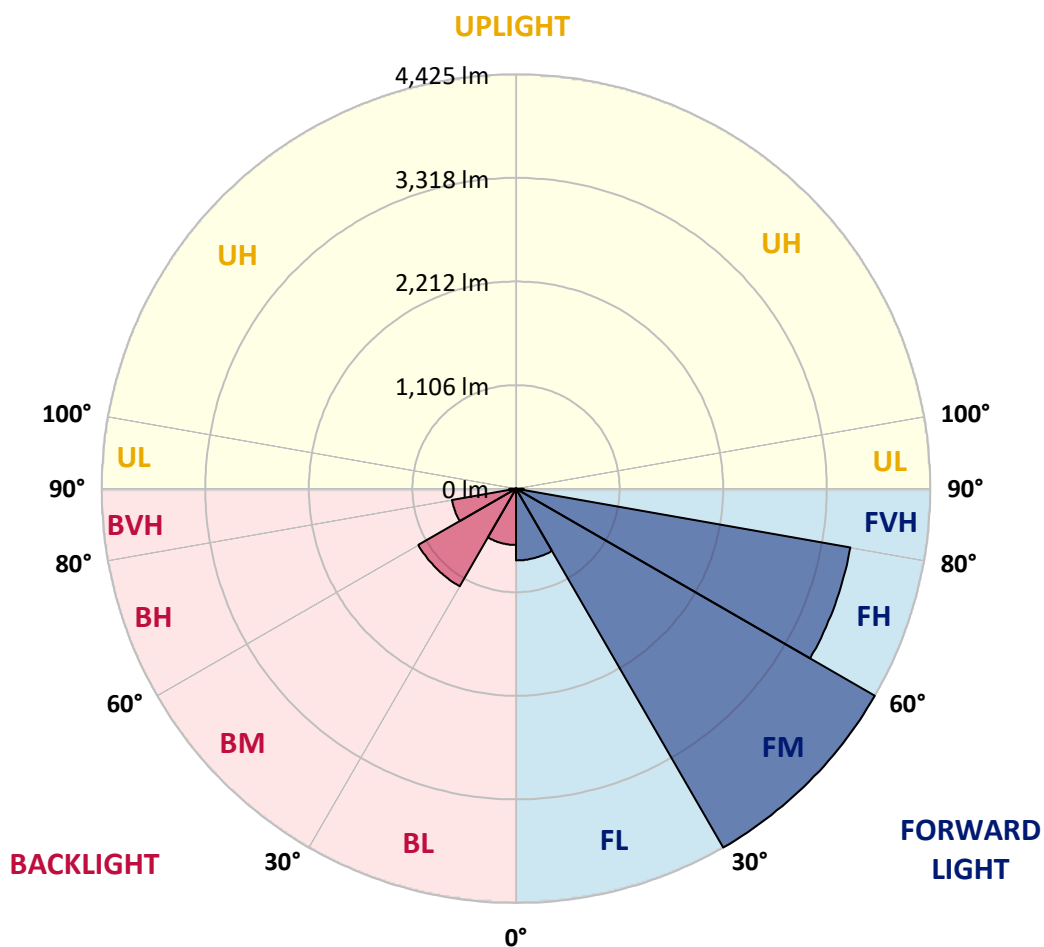


REPORT NUMBER: P477333
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.5	6.7			
FM (30°-60°)	4424.6	38.6			
FH (60°-80°)	3625.3	31.6			G2/5000
FVH (80°-90°)	81.2	0.7			G1/100
BL (0°-30°)	601.7	5.2	B2/1000		
BM (30°-60°)	1203.3	10.5	B2/2500		
BH (60°-80°)	694.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	72.7	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: P477333
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7
2.5°	1340.7	1347.9	1343.1	1357.5	1369.5	1369.5	1379.1	1371.9	1381.5	1394.7
5°	1385.1	1356.3	1371.9	1379.1	1375.5	1381.5	1371.9	1395.9	1380.3	1405.5
7.5°	1395.9	1406.7	1419.9	1407.9	1418.7	1412.7	1413.9	1410.3	1401.9	1422.3
10°	1475.1	1459.5	1489.5	1471.5	1469.1	1466.7	1461.9	1443.9	1464.3	1465.5
12.5°	1566.4	1552.0	1550.8	1536.4	1555.6	1520.7	1528.0	1518.3	1522.0	1526.8
15°	1632.4	1626.4	1654.0	1637.2	1612.0	1596.4	1613.2	1586.8	1600.0	1597.6
17.5°	1763.2	1762.0	1741.6	1714.0	1699.6	1676.8	1673.2	1662.4	1672.0	1667.2
20°	1854.4	1867.6	1871.2	1838.8	1783.6	1758.4	1752.4	1744.0	1754.8	1751.2
22.5°	1993.7	1973.3	1988.9	1932.4	1912.0	1852.0	1830.4	1818.4	1870.0	1856.8
25°	2082.5	2104.1	2088.5	2069.3	2023.7	1949.2	1933.6	1960.1	1980.5	1966.1
27.5°	2282.9	2261.3	2246.9	2189.3	2159.3	2081.3	2063.3	2053.7	2058.5	2066.9
30°	2435.4	2447.4	2415.0	2374.1	2298.5	2219.3	2177.3	2168.9	2152.1	2137.7
32.5°	2652.6	2634.6	2615.4	2589.0	2524.2	2419.8	2378.9	2347.7	2297.3	2230.1
35°	2757.0	2808.6	2794.2	2723.4	2674.2	2634.6	2622.6	2574.6	2532.6	2427.0
37.5°	2931.1	2952.7	2932.3	2909.5	2886.7	2844.7	2830.3	2843.5	2760.6	2586.6
40°	3043.9	3089.5	3131.5	3067.9	3063.1	3071.5	2982.7	2967.1	2796.6	2705.4
42.5°	3274.4	3293.6	3302.0	3299.6	3327.2	3327.2	3157.9	3124.3	3003.1	2928.7
45°	3579.2	3594.8	3624.8	3646.4	3615.2	3630.8	3389.6	3376.4	3268.4	3253.9
47.5°	3843.3	3880.5	3947.7	4011.3	4052.1	3999.3	3735.3	3641.6	3614.0	3700.5
50°	4073.7	4029.3	4186.6	4251.4	4430.2	4517.8	4116.9	4079.7	4035.3	4201.0
52.5°	4096.5	4156.6	4378.6	4508.2	4876.7	5038.8	4585.1	4569.5	4515.4	4706.3
55°	4259.8	4252.6	4475.8	4756.7	5194.8	5467.3	5194.8	5185.2	5067.6	5248.8
57.5°	4232.2	4305.4	4481.8	4874.3	5481.7	5927.0	5901.8	5835.7	5671.3	5818.9
60°	4138.6	4157.8	4372.6	4870.7	5648.5	6398.7	6665.1	6678.3	6342.3	6459.9
62.5°	3608.0	3652.4	3924.9	4487.8	5529.7	6723.9	7410.5	7363.7	7094.8	6960.4
65°	2869.9	2825.4	3108.7	3717.3	4790.3	6493.5	7737.0	7911.0	7488.5	7242.5
67.5°	1759.6	1748.8	2021.3	2557.8	3584.0	5526.1	7476.5	7612.2	7379.3	7182.5
70°	906.2	878.6	1049.0	1427.1	2252.9	4054.5	6506.7	6639.9	6862.0	6441.9
72.5°	422.5	416.5	507.7	702.2	1147.5	2383.7	5038.8	5134.8	5602.9	5431.2
75°	248.5	252.1	303.7	367.3	559.3	1123.5	3344.0	3530.0	4037.7	3914.1
77.5°	186.0	186.0	216.0	255.7	326.5	434.5	1650.4	1896.4	2360.9	2123.3
80°	136.8	139.2	165.6	192.0	226.9	224.5	655.4	768.2	1082.6	925.4
82.5°	106.8	110.4	128.4	142.8	159.6	135.6	268.9	289.3	445.3	354.1
85°	74.4	76.8	100.8	97.2	97.2	75.6	111.6	117.6	176.4	168.0
87.5°	18.0	20.4	49.2	54.0	40.8	22.8	34.8	39.6	63.6	73.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477333
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1376.7	0°	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7	1376.7
1400.7	2.5°	1382.7	1387.5	1407.9	1397.1	1403.1	1377.9	1398.3	1381.5	1395.9	1388.7
1411.5	5°	1421.1	1410.3	1422.3	1413.9	1413.9	1423.5	1437.9	1427.1	1448.7	1439.1
1419.9	7.5°	1436.7	1437.9	1445.1	1446.3	1440.3	1470.3	1471.5	1467.9	1488.3	1483.5
1477.5	10°	1475.1	1476.3	1489.5	1496.7	1490.7	1501.5	1489.5	1479.9	1478.7	1473.9
1523.2	12.5°	1536.4	1548.4	1546.0	1552.0	1553.2	1507.5	1479.9	1433.1	1427.1	1433.1
1590.4	15°	1592.8	1588.0	1590.4	1602.4	1552.0	1478.7	1429.5	1389.9	1392.3	1393.5
1678.0	17.5°	1660.0	1663.6	1667.2	1612.0	1519.5	1433.1	1389.9	1389.9	1377.9	1382.7
1739.2	20°	1736.8	1722.4	1691.2	1613.2	1463.1	1380.3	1367.1	1367.1	1352.7	1343.1
1805.2	22.5°	1796.8	1768.0	1721.2	1576.0	1412.7	1359.9	1327.5	1304.7	1287.9	1268.7
1878.4	25°	1835.2	1819.6	1728.4	1537.6	1375.5	1305.9	1257.9	1223.1	1201.5	1176.3
1936.0	27.5°	1894.0	1864.0	1748.8	1493.1	1334.7	1251.9	1177.5	1123.5	1082.6	1056.2
2023.7	30°	1973.3	1930.0	1734.4	1429.5	1272.3	1158.3	1070.6	1001.0	954.2	932.6
2106.5	32.5°	2038.1	1981.7	1722.4	1371.9	1202.7	1063.4	947.0	876.2	849.8	822.2
2245.7	35°	2161.7	2050.1	1714.0	1339.5	1140.3	968.6	846.2	785.0	751.4	710.6
2328.5	37.5°	2256.5	2168.9	1693.6	1272.3	1059.8	876.2	769.4	714.2	663.8	620.5
2520.6	40°	2405.4	2334.5	1694.8	1177.5	965.0	797.0	709.4	651.7	588.1	550.9
2805.0	42.5°	2685.0	2497.8	1702.0	1101.9	858.2	732.2	655.4	586.9	523.3	492.1
3129.1	45°	3028.3	2722.2	1657.6	1033.4	749.0	671.0	590.5	522.1	481.3	458.5
3569.6	47.5°	3423.2	2941.9	1597.6	905.0	657.8	606.1	530.5	490.9	460.9	447.7
4137.4	50°	3864.9	3256.3	1580.8	787.4	586.9	550.9	501.7	471.7	451.3	435.7
4777.1	52.5°	4433.8	3622.4	1547.2	666.2	525.7	506.5	490.9	470.5	452.5	439.3
5373.6	55°	4977.5	4028.1	1511.1	566.5	482.5	484.9	493.3	475.3	459.7	439.3
6042.2	57.5°	5589.7	4442.2	1377.9	493.3	450.1	474.1	490.9	470.5	454.9	439.3
6726.3	60°	5967.8	4675.1	1117.5	429.7	421.3	453.7	476.5	454.9	438.1	444.1
7040.8	62.5°	6121.4	4552.6	842.6	390.1	400.9	426.1	453.7	445.3	433.3	456.1
7037.2	65°	5859.7	4270.6	602.5	356.5	373.3	398.5	433.3	442.9	446.5	490.9
6463.5	67.5°	5214.0	3718.5	442.9	328.9	344.5	381.7	447.7	463.3	460.9	516.1
5424.0	70°	4172.2	2908.3	345.7	306.1	333.7	394.9	468.1	468.1	451.3	516.1
4137.4	72.5°	3035.5	2050.1	297.7	279.7	306.1	362.5	465.7	464.5	442.9	471.7
2634.6	75°	1837.6	1193.1	262.9	253.3	262.9	310.9	445.3	438.1	408.1	405.7
1267.5	77.5°	915.8	600.1	214.8	224.5	229.3	260.5	391.3	402.1	361.3	351.7
500.5	80°	386.5	261.7	178.8	193.2	193.2	219.7	325.3	332.5	300.1	282.1
198.0	82.5°	176.4	150.0	152.4	168.0	157.2	170.4	258.1	266.5	243.7	213.6
84.0	85°	74.4	85.2	116.4	132.0	116.4	110.4	177.6	187.2	158.4	132.0
36.0	87.5°	33.6	46.8	73.2	96.0	58.8	51.6	94.8	98.4	79.2	58.8
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°
1376.7
1375.5
1425.9
1476.3
1473.9
1435.5
1410.3
1383.9
1328.7
1257.9
1181.1
1068.2
944.6
821.0
707.0
621.7
554.5
494.5
463.3
445.3
438.1
438.1
438.1
438.1
439.3
450.1
490.9
519.7
505.3
454.9
400.9
345.7
276.1
208.8
133.2
55.2
0.0

F REPORT)