

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: P477369

Luminaire Tested: **IFLD-L-SA8C-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477369
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

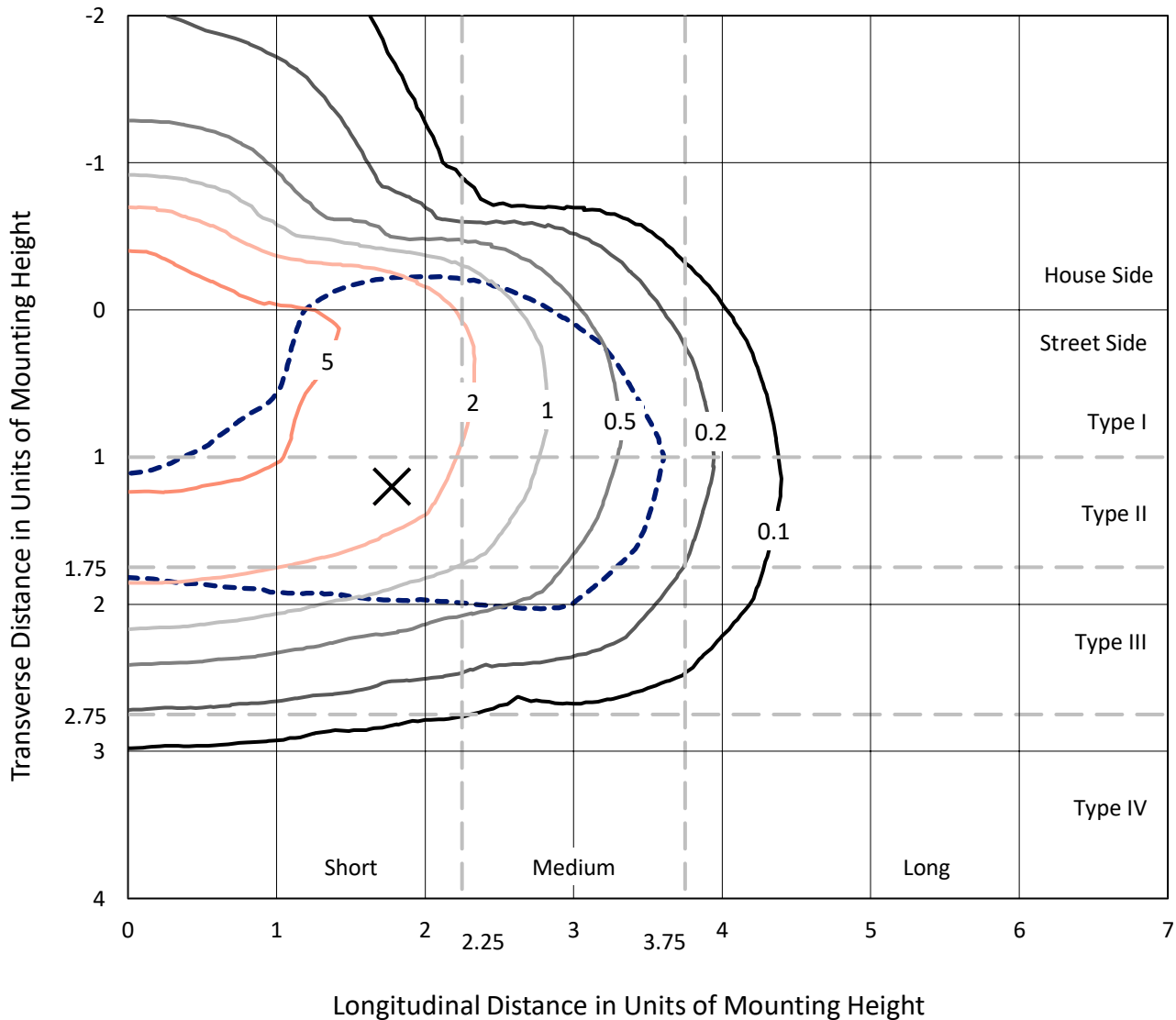
Lumens per Lamp: N/A
Luminaire Lumens: 50895.3 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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: P477369
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

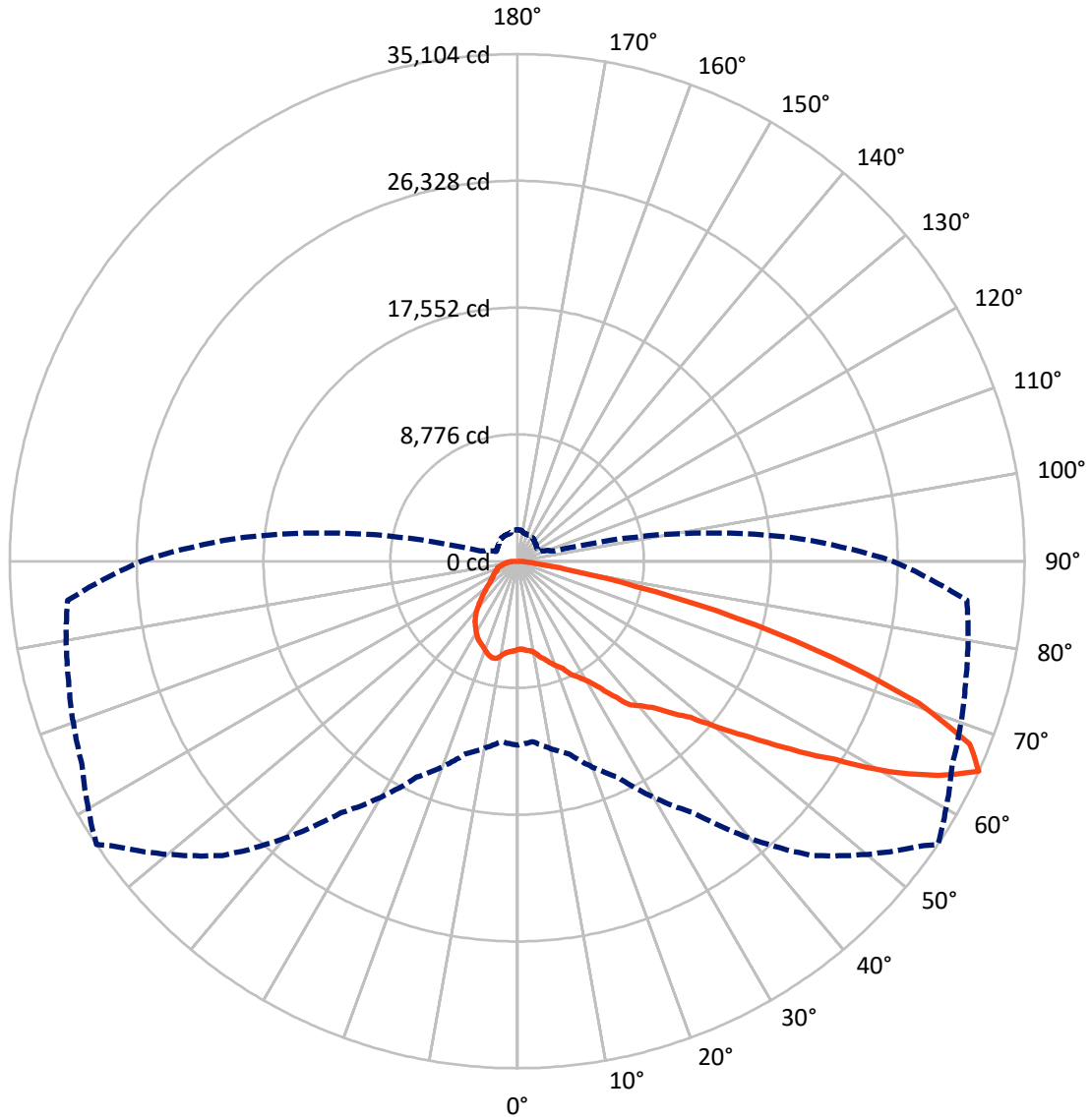
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477369
CATALOG NUMBER: IFLD-L-SA8C-735-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477369

CATALOG NUMBER: IFLD-L-SA8C-735-U-T3

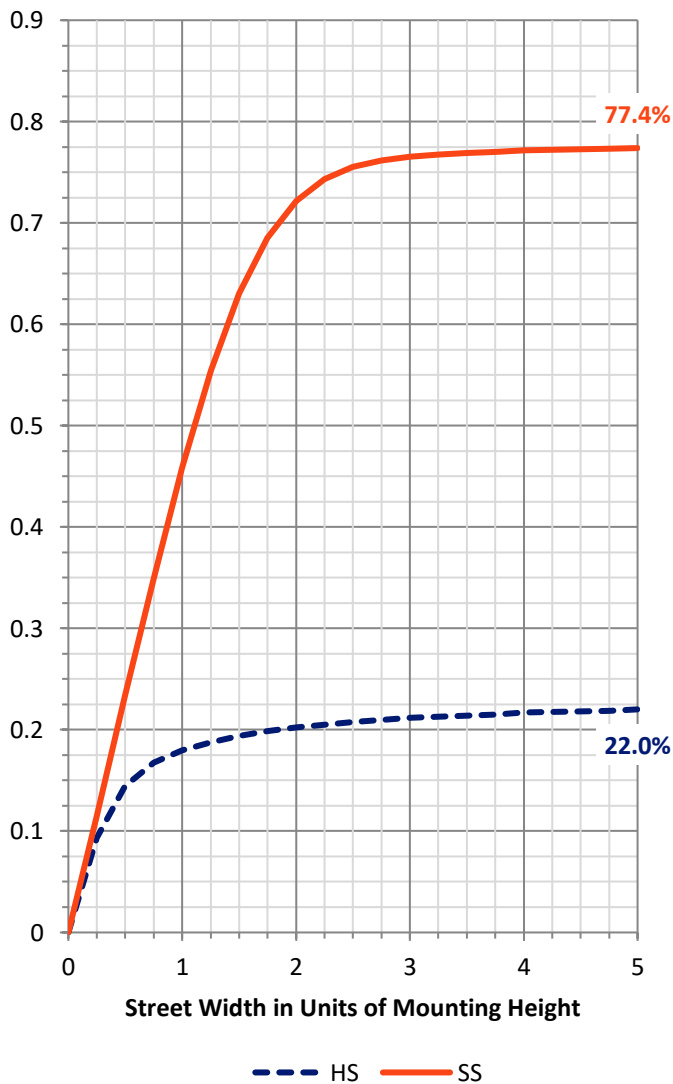
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11414.2	0.0	11414.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	39481.2	0.0	39481.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	50895.3	0.0	50895.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.4	1.2
10°-20°	1965.7	3.9
20°-30°	3500.1	6.9
30°-40°	5241.3	10.3
40°-50°	7765.6	15.3
50°-60°	11965.7	23.5
60°-70°	13546.6	26.6
70°-80°	5622.0	11.0
80°-90°	683.0	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°	50895.3	100.0
0°-180°	50895.3	100.0

Coefficient of Utilization

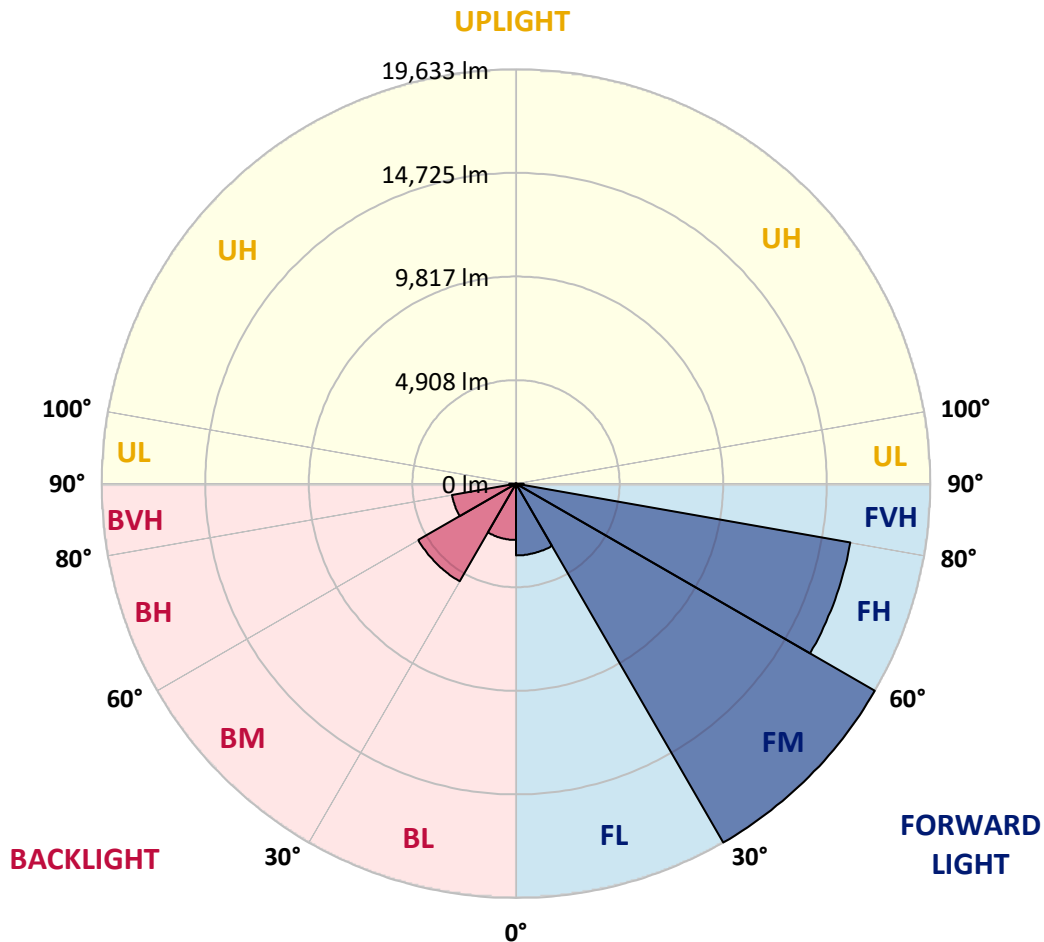


REPORT NUMBER: P477369
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3401.3	6.7			
FM (30°-60°)	19633.2	38.6			
FH (60°-80°)	16086.4	31.6			G5
FVH (80°-90°)	360.3	0.7			G3/500
BL (0°-30°)	2669.9	5.2	B4/5000		
BM (30°-60°)	5339.4	10.5	B4/8500		
BH (60°-80°)	3082.2	6.1	B4/5000		G4/5000
BVH (80°-90°)	322.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





REPORT NUMBER: P477369
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9
2.5°	5949.1	5981.1	5959.8	6023.7	6076.9	6076.9	6119.5	6087.6	6130.2	6188.8
5°	6146.2	6018.4	6087.6	6119.5	6103.6	6130.2	6087.6	6194.1	6124.9	6236.7
7.5°	6194.1	6242.0	6300.6	6247.4	6295.3	6268.7	6274.0	6258.0	6220.7	6311.3
10°	6545.6	6476.4	6609.5	6529.6	6519.0	6508.3	6487.0	6407.1	6497.7	6503.0
12.5°	6950.4	6886.5	6881.2	6817.2	6902.5	6748.0	6780.0	6737.4	6753.3	6774.6
15°	7243.3	7216.7	7339.2	7264.6	7152.8	7083.5	7158.1	7040.9	7099.5	7088.9
17.5°	7823.9	7818.5	7728.0	7605.5	7541.6	7440.4	7424.4	7376.5	7419.1	7397.8
20°	8228.6	8287.2	8303.2	8159.4	7914.4	7802.6	7775.9	7738.6	7786.6	7770.6
22.5°	8846.4	8755.9	8825.1	8574.8	8484.3	8218.0	8122.1	8068.9	8297.9	8239.3
25°	9240.6	9336.4	9267.2	9182.0	8979.6	8649.4	8580.1	8697.3	8787.9	8723.9
27.5°	10130.0	10034.1	9970.2	9714.6	9581.4	9235.2	9155.4	9112.7	9134.0	9171.3
30°	10806.4	10859.7	10715.9	10534.8	10199.2	9847.7	9661.3	9624.0	9549.5	9485.6
32.5°	11770.4	11690.5	11605.3	11488.1	11200.5	10737.2	10556.1	10417.6	10193.9	9895.7
35°	12233.8	12462.8	12398.9	12084.6	11866.3	11690.5	11637.3	11424.2	11237.8	10769.1
37.5°	13006.0	13101.9	13011.4	12910.2	12809.0	12622.6	12558.6	12617.2	12249.7	11477.5
40°	13506.7	13709.1	13895.5	13613.2	13591.9	13629.2	13235.0	13165.8	12409.5	12004.7
42.5°	14529.3	14614.5	14651.8	14641.1	14763.6	14763.6	14012.6	13863.5	13325.6	12995.4
45°	15882.1	15951.3	16084.4	16180.3	16041.8	16111.1	15040.6	14982.0	14502.6	14438.7
47.5°	17053.8	17218.9	17517.1	17799.4	17980.5	17746.1	16574.4	16159.0	16036.5	16420.0
50°	18076.4	17879.3	18577.0	18864.6	19658.2	20047.0	18268.1	18103.0	17905.9	18640.9
52.5°	18177.6	18443.9	19429.2	20004.4	21639.4	22358.4	20345.2	20276.0	20036.3	20883.1
55°	18901.9	18869.9	19860.6	21106.8	23050.8	24259.8	23050.8	23008.2	22486.3	23290.5
57.5°	18779.4	19104.3	19887.2	21628.8	24323.7	26299.7	26187.8	25894.9	25165.2	25820.3
60°	18364.0	18449.2	19402.5	21612.8	25064.0	28392.8	29575.1	29633.7	28142.5	28664.4
62.5°	16009.9	16206.9	17415.9	19913.8	24536.8	29836.1	32882.6	32674.9	31481.8	30885.3
65°	12734.4	12537.3	13794.3	16494.5	21256.0	28813.5	34331.2	35103.5	33228.8	32136.9
67.5°	7807.9	7759.9	8968.9	11349.7	15903.4	24520.8	33175.5	33777.3	32744.1	31870.6
70°	4021.1	3898.6	4654.9	6332.6	9996.9	17991.1	28872.1	29463.3	30448.6	28584.5
72.5°	1874.7	1848.1	2252.9	3115.7	5091.6	10577.4	22358.4	22784.5	24861.7	24100.0
75°	1102.5	1118.5	1347.5	1629.7	2481.9	4985.1	14838.2	15663.7	17916.6	17368.0
77.5°	825.5	825.5	958.7	1134.4	1448.7	1928.0	7323.2	8415.0	10476.2	9421.6
80°	607.2	617.8	735.0	852.2	1006.6	996.0	2908.0	3408.6	4804.0	4106.3
82.5°	474.0	490.0	569.9	633.8	708.4	601.8	1193.0	1283.6	1975.9	1571.2
85°	330.2	340.9	447.4	431.4	431.4	335.5	495.3	521.9	782.9	745.6
87.5°	79.9	90.5	218.4	239.7	181.1	101.2	154.5	175.8	282.3	324.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477369
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6108.9	0°	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9	6108.9
6215.4	2.5°	6135.5	6156.8	6247.4	6199.4	6226.1	6114.2	6204.8	6130.2	6194.1	6162.2
6263.3	5°	6306.0	6258.0	6311.3	6274.0	6274.0	6316.6	6380.5	6332.6	6428.5	6385.8
6300.6	7.5°	6375.2	6380.5	6412.5	6417.8	6391.2	6524.3	6529.6	6513.7	6604.2	6582.9
6556.3	10°	6545.6	6550.9	6609.5	6641.5	6614.9	6662.8	6609.5	6566.9	6561.6	6540.3
6758.7	12.5°	6817.2	6870.5	6859.9	6886.5	6891.8	6689.4	6566.9	6359.2	6332.6	6359.2
7056.9	15°	7067.6	7046.3	7056.9	7110.2	6886.5	6561.6	6343.2	6167.5	6178.1	6183.5
7445.7	17.5°	7365.8	7381.8	7397.8	7152.8	6742.7	6359.2	6167.5	6167.5	6114.2	6135.5
7717.3	20°	7706.7	7642.8	7504.3	7158.1	6492.4	6124.9	6066.3	6066.3	6002.4	5959.8
8010.3	22.5°	7973.0	7845.2	7637.4	6993.0	6268.7	6034.3	5890.5	5789.3	5714.8	5629.6
8335.2	25°	8143.4	8074.2	7669.4	6822.6	6103.6	5794.7	5581.6	5427.2	5331.3	5219.5
8590.8	27.5°	8404.4	8271.2	7759.9	6625.5	5922.5	5555.0	5224.8	4985.1	4804.0	4686.9
8979.6	30°	8755.9	8564.2	7696.0	6343.2	5645.5	5139.6	4750.8	4441.9	4234.2	4138.3
9347.1	32.5°	9043.5	8793.2	7642.8	6087.6	5336.6	4718.8	4202.2	3888.0	3770.8	3648.3
9964.9	35°	9592.1	9096.8	7605.5	5943.8	5059.7	4298.1	3754.8	3483.2	3334.1	3153.0
10332.4	37.5°	10012.8	9624.0	7515.0	5645.5	4702.8	3888.0	3413.9	3169.0	2945.3	2753.5
11184.5	40°	10673.3	10359.0	7520.3	5224.8	4282.1	3536.4	3147.7	2892.0	2609.7	2444.6
12446.8	42.5°	11914.2	11083.4	7552.2	4889.2	3808.1	3248.8	2908.0	2604.4	2322.1	2183.6
13884.8	45°	13437.4	12079.3	7355.2	4585.7	3323.4	2977.2	2620.4	2316.8	2135.7	2034.5
15839.4	47.5°	15189.7	13054.0	7088.9	4015.8	2918.6	2689.6	2354.1	2178.3	2045.2	1986.6
18358.6	50°	17149.6	14449.4	7014.3	3493.8	2604.4	2444.6	2226.3	2093.1	2002.6	1933.3
21197.4	52.5°	19674.2	16073.8	6865.2	2955.9	2332.8	2247.6	2178.3	2087.8	2007.9	1949.3
23844.4	55°	22086.8	17874.0	6705.4	2513.9	2141.0	2151.7	2189.0	2109.1	2039.8	1949.3
26811.0	57.5°	24803.1	19711.4	6114.2	2189.0	1997.2	2103.8	2178.3	2087.8	2018.5	1949.3
29846.8	60°	26480.7	20744.7	4958.5	1906.7	1869.4	2013.2	2114.4	2018.5	1944.0	1970.6
31242.2	62.5°	27162.5	20201.4	3738.8	1730.9	1778.9	1890.7	2013.2	1975.9	1922.7	2023.9
31226.2	65°	26001.4	18949.8	2673.6	1581.8	1656.4	1768.2	1922.7	1965.3	1981.3	2178.3
28680.4	67.5°	23136.0	16499.9	1965.3	1459.3	1528.6	1693.7	1986.6	2055.8	2045.2	2290.2
24068.1	70°	18513.1	12904.8	1533.9	1358.1	1480.6	1752.2	2077.1	2077.1	2002.6	2290.2
18358.6	72.5°	13469.4	9096.8	1320.8	1241.0	1358.1	1608.4	2066.5	2061.2	1965.3	2093.1
11690.5	75°	8154.1	5294.0	1166.4	1123.8	1166.4	1379.4	1975.9	1944.0	1810.8	1800.2
5624.2	77.5°	4063.7	2663.0	953.3	996.0	1017.3	1155.7	1736.3	1784.2	1603.1	1560.5
2220.9	80°	1715.0	1161.1	793.6	857.5	857.5	974.7	1443.3	1475.3	1331.5	1251.6
878.8	82.5°	782.9	665.7	676.4	745.6	697.7	756.3	1145.1	1182.4	1081.2	948.0
372.8	85°	330.2	378.1	516.6	585.9	516.6	490.0	788.2	830.9	703.0	585.9
159.8	87.5°	149.1	207.7	324.9	426.1	261.0	229.0	420.8	436.7	351.5	261.0
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>
6108.9
6103.6
6327.3
6550.9
6540.3
6369.9
6258.0
6140.8
5895.9
5581.6
5240.8
4740.1
4191.5
3643.0
3137.0
2758.9
2460.6
2194.3
2055.8
1975.9
1944.0
1944.0
1944.0
1944.0
1949.3
1997.2
2178.3
2306.1
2242.2
2018.5
1778.9
1533.9
1225.0
926.7
591.2
245.0
0.0

F REPORT)