

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: P477286

Luminaire Tested: **IFLD-L-SA7C-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477286
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

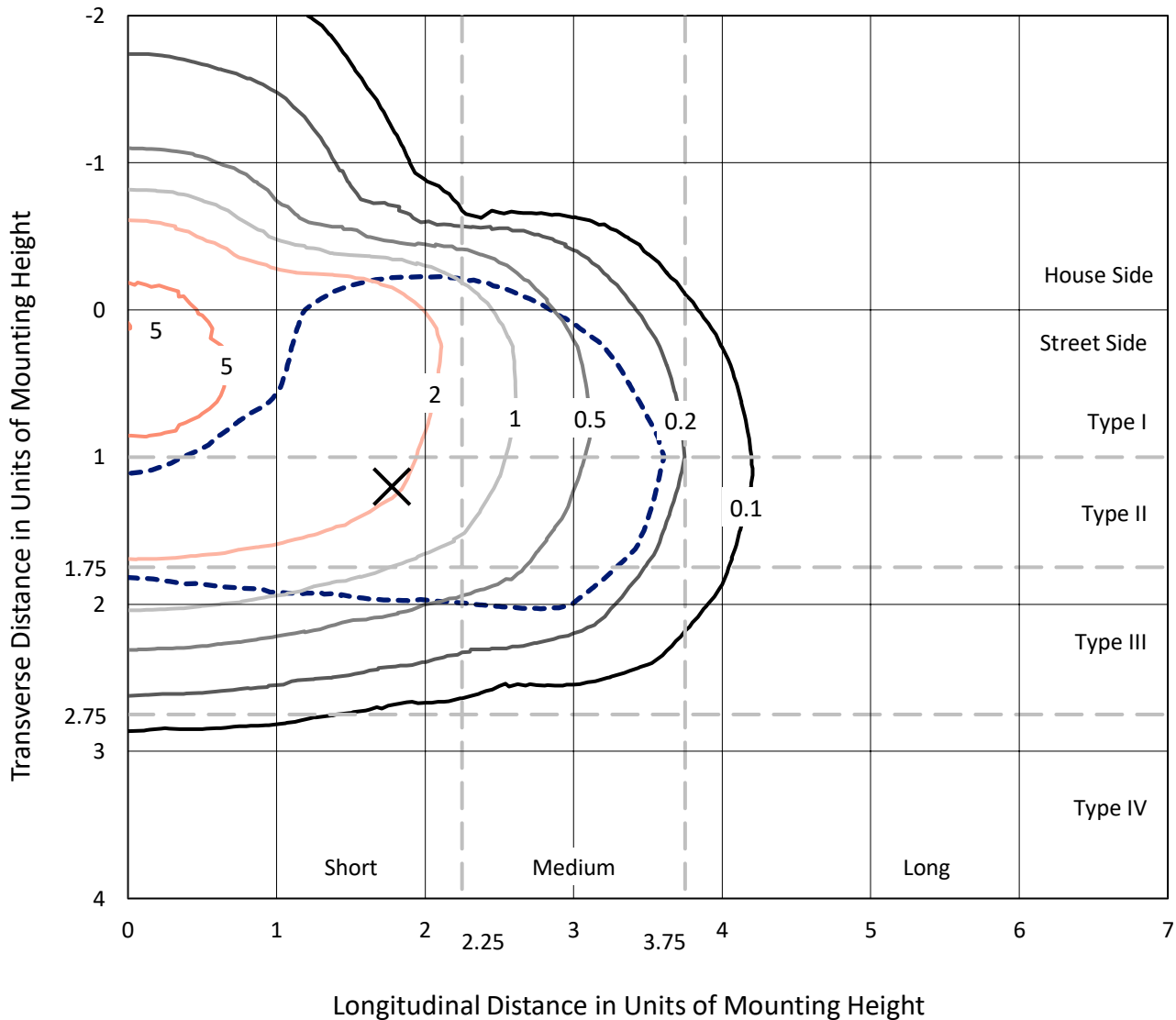
Lumens per Lamp: N/A
Luminaire Lumens: 37760.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 369
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: P477286
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

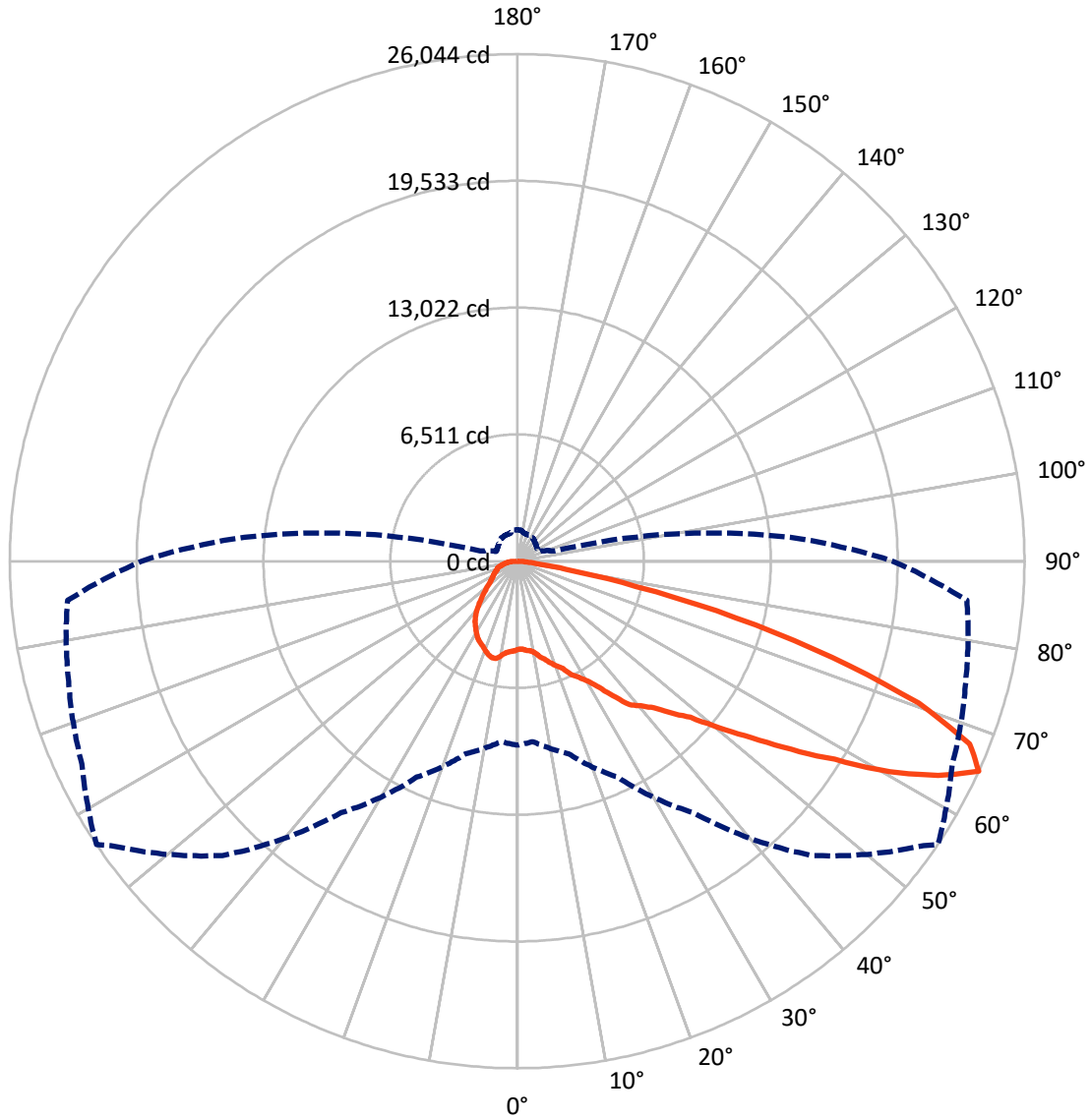
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477286
CATALOG NUMBER: IFLD-L-SA7C-727-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477286
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T3

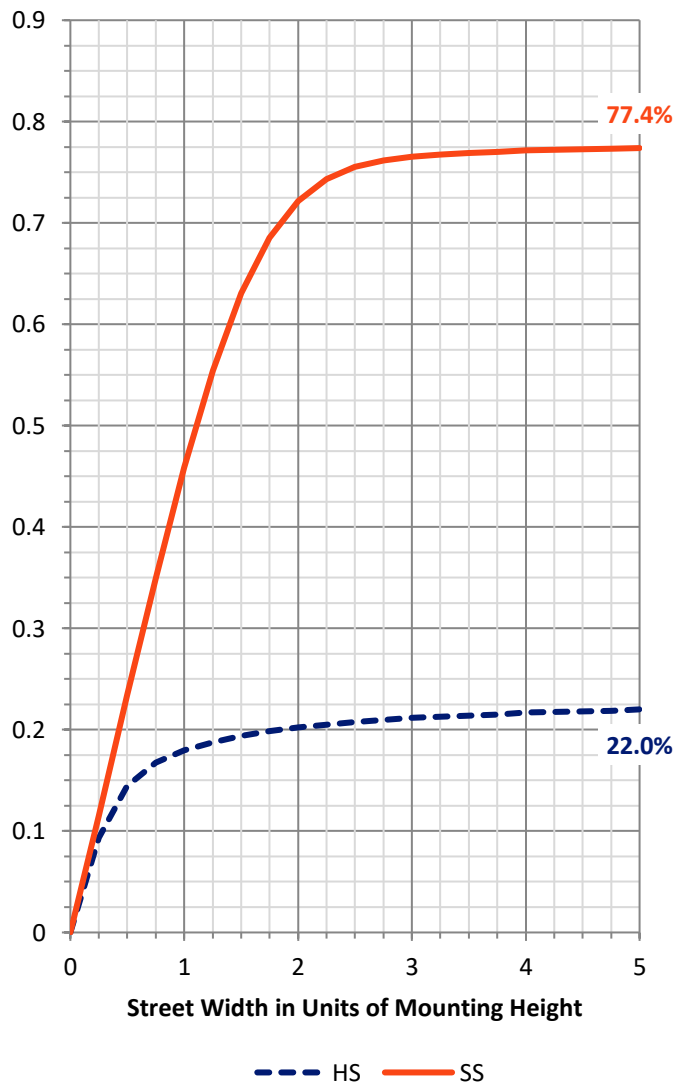
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8468.5	0.0	8468.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	29292.1	0.0	29292.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	37760.5	0.0	37760.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.1	1.2
10°-20°	1458.4	3.9
20°-30°	2596.8	6.9
30°-40°	3888.6	10.3
40°-50°	5761.5	15.3
50°-60°	8877.6	23.5
60°-70°	10050.6	26.6
70°-80°	4171.1	11.0
80°-90°	506.7	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°	37760.5	100.0
0°-180°	37760.5	100.0

Coefficient of Utilization

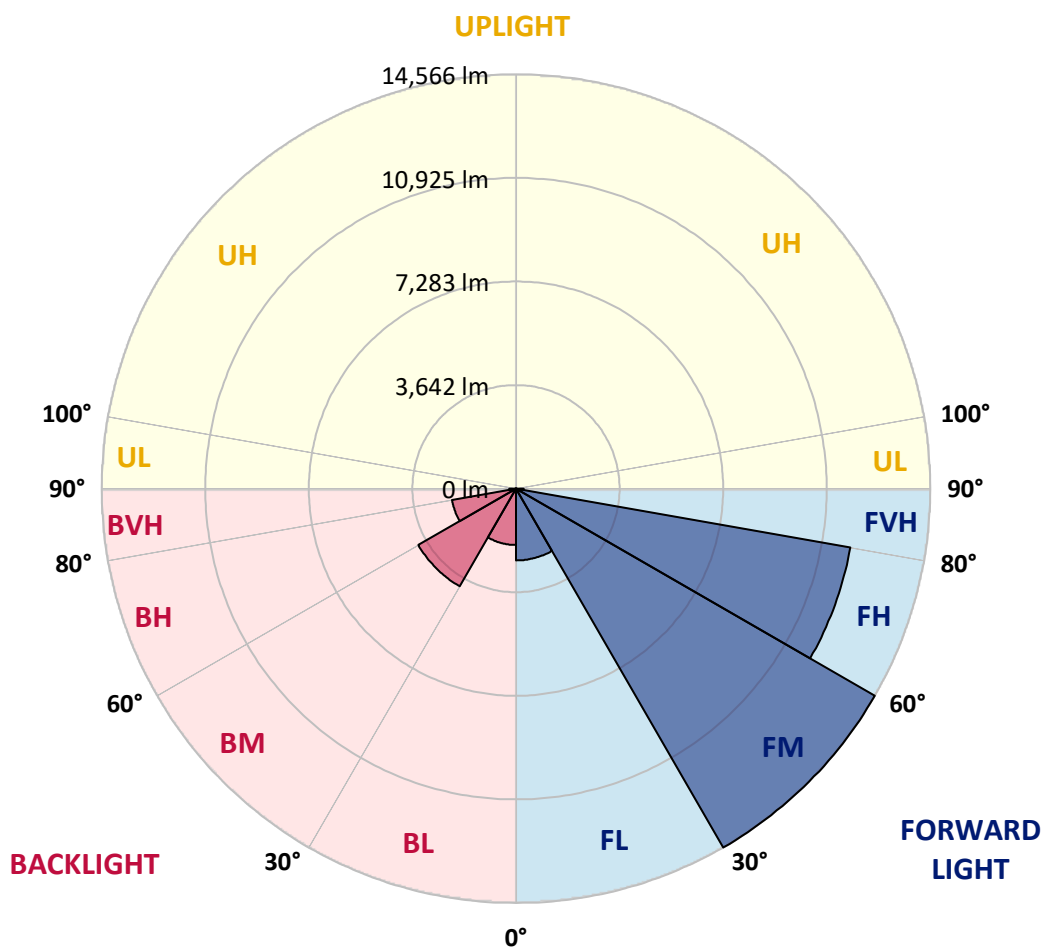


REPORT NUMBER: P477286
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2523.5	6.7			
FM (30°-60°)	14566.4	38.6			
FH (60°-80°)	11934.9	31.6			G4/12000
FVH (80°-90°)	267.3	0.7			G3/500
BL (0°-30°)	1980.8	5.2	B3/2500		
BM (30°-60°)	3961.4	10.5	B3/5000		
BH (60°-80°)	2286.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	239.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





REPORT NUMBER: P477286
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3
2.5°	4413.8	4437.5	4421.7	4469.1	4508.6	4508.6	4540.2	4516.5	4548.1	4591.6
5°	4560.0	4465.2	4516.5	4540.2	4528.4	4548.1	4516.5	4595.6	4544.2	4627.2
7.5°	4595.6	4631.1	4674.6	4635.1	4670.6	4650.9	4654.8	4643.0	4615.3	4682.5
10°	4856.4	4805.0	4903.8	4844.5	4836.6	4828.7	4812.9	4753.6	4820.8	4824.7
12.5°	5156.7	5109.3	5105.3	5057.9	5121.1	5006.5	5030.2	4998.6	5010.5	5026.3
15°	5374.0	5354.2	5445.1	5389.8	5306.8	5255.5	5310.8	5223.8	5267.3	5259.4
17.5°	5804.7	5800.8	5733.6	5642.7	5595.3	5520.2	5508.4	5472.8	5504.4	5488.6
20°	6105.0	6148.5	6160.3	6053.7	5871.9	5788.9	5769.2	5741.5	5777.1	5765.2
22.5°	6563.4	6496.2	6547.6	6361.9	6294.7	6097.1	6026.0	5986.5	6156.4	6112.9
25°	6855.8	6926.9	6875.6	6812.3	6662.2	6417.2	6365.8	6452.8	6519.9	6472.5
27.5°	7515.7	7444.6	7397.2	7207.5	7108.7	6851.9	6792.6	6761.0	6776.8	6804.4
30°	8017.5	8057.1	7950.4	7816.0	7567.1	7306.3	7168.0	7140.3	7085.0	7037.6
32.5°	8732.8	8673.5	8610.3	8523.3	8309.9	7966.2	7831.8	7729.1	7563.1	7341.8
35°	9076.5	9246.4	9199.0	8965.9	8803.9	8673.5	8634.0	8475.9	8337.6	7989.9
37.5°	9649.5	9720.6	9653.4	9578.4	9503.3	9365.0	9317.6	9361.0	9088.4	8515.4
40°	10020.9	10171.1	10309.4	10100.0	10084.2	10111.8	9819.4	9768.0	9206.9	8906.6
42.5°	10779.6	10842.8	10870.5	10862.6	10953.5	10953.5	10396.3	10285.7	9886.6	9641.6
45°	11783.3	11834.7	11933.4	12004.6	11901.8	11953.2	11159.0	11115.5	10759.9	10712.4
47.5°	12652.6	12775.1	12996.4	13205.8	13340.2	13166.3	12297.0	11988.8	11897.9	12182.4
50°	13411.3	13265.1	13782.7	13996.1	14584.9	14873.3	13553.6	13431.1	13284.9	13830.2
52.5°	13486.4	13684.0	14415.0	14841.7	16054.8	16588.3	15094.6	15043.3	14865.4	15493.7
55°	14023.8	14000.1	14735.0	15659.7	17102.0	17999.0	17102.0	17070.4	16683.1	17279.8
57.5°	13932.9	14173.9	14754.8	16046.9	18046.4	19512.4	19429.4	19212.1	18670.7	19156.7
60°	13624.7	13687.9	14395.2	16035.1	18595.6	21065.3	21942.5	21986.0	20879.6	21266.8
62.5°	11878.1	12024.3	12921.3	14774.6	18204.4	22136.2	24396.4	24242.3	23357.2	22914.6
65°	9448.0	9301.8	10234.3	12237.7	15770.3	21377.5	25471.2	26044.2	24653.2	23843.2
67.5°	5792.9	5757.3	6654.3	8420.6	11799.1	18192.6	24613.7	25060.2	24293.7	23645.6
70°	2983.4	2892.5	3453.6	4698.3	7416.9	13348.1	21420.9	21859.5	22590.6	21207.6
72.5°	1390.9	1371.2	1671.5	2311.6	3777.6	7847.6	16588.3	16904.4	18445.5	17880.4
75°	818.0	829.8	999.7	1209.2	1841.4	3698.6	11008.8	11621.3	13292.8	12885.8
77.5°	612.5	612.5	711.3	841.7	1074.8	1430.4	5433.3	6243.3	7772.5	6990.2
80°	450.5	458.4	545.3	632.2	746.8	738.9	2157.5	2528.9	3564.2	3046.6
82.5°	351.7	363.5	422.8	470.2	525.5	446.5	885.1	952.3	1466.0	1165.7
85°	245.0	252.9	331.9	320.1	320.1	248.9	367.5	387.2	580.9	553.2
87.5°	59.3	67.2	162.0	177.8	134.4	75.1	114.6	130.4	209.4	241.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477286
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4532.3	0°	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3
4611.4	2.5°	4552.1	4567.9	4635.1	4599.5	4619.3	4536.3	4603.5	4548.1	4595.6	4571.9
4646.9	5°	4678.5	4643.0	4682.5	4654.8	4654.8	4686.4	4733.9	4698.3	4769.4	4737.8
4674.6	7.5°	4729.9	4733.9	4757.6	4761.5	4741.8	4840.6	4844.5	4832.7	4899.8	4884.0
4864.3	10°	4856.4	4860.3	4903.8	4927.5	4907.7	4943.3	4903.8	4872.2	4868.2	4852.4
5014.4	12.5°	5057.9	5097.4	5089.5	5109.3	5113.2	4963.1	4872.2	4718.1	4698.3	4718.1
5235.7	15°	5243.6	5227.8	5235.7	5275.2	5109.3	4868.2	4706.2	4575.8	4583.7	4587.7
5524.2	17.5°	5464.9	5476.7	5488.6	5306.8	5002.6	4718.1	4575.8	4575.8	4536.3	4552.1
5725.7	20°	5717.8	5670.4	5567.6	5310.8	4816.8	4544.2	4500.7	4500.7	4453.3	4421.7
5943.0	22.5°	5915.4	5820.5	5666.4	5188.3	4650.9	4477.0	4370.3	4295.3	4239.9	4176.7
6184.1	25°	6041.8	5990.4	5690.1	5061.8	4528.4	4299.2	4141.1	4026.6	3955.4	3872.4
6373.7	27.5°	6235.4	6136.6	5757.3	4915.6	4394.0	4121.4	3876.4	3698.6	3564.2	3477.3
6662.2	30°	6496.2	6354.0	5709.9	4706.2	4188.6	3813.2	3524.7	3295.5	3141.4	3070.3
6934.8	32.5°	6709.6	6523.9	5670.4	4516.5	3959.4	3501.0	3117.7	2884.6	2797.6	2706.8
7393.2	35°	7116.6	6749.1	5642.7	4409.8	3753.9	3188.8	2785.8	2584.3	2473.6	2339.3
7665.9	37.5°	7428.8	7140.3	5575.5	4188.6	3489.2	2884.6	2532.9	2351.1	2185.2	2042.9
8298.1	40°	7918.8	7685.6	5579.5	3876.4	3177.0	2623.8	2335.3	2145.6	1936.2	1813.7
9234.6	42.5°	8839.4	8223.0	5603.2	3627.5	2825.3	2410.4	2157.5	1932.3	1722.8	1620.1
10301.5	45°	9969.6	8961.9	5457.0	3402.2	2465.7	2208.9	1944.1	1718.9	1584.5	1509.5
11751.7	47.5°	11269.6	9685.1	5259.4	2979.4	2165.4	1995.5	1746.6	1616.2	1517.4	1473.9
13620.7	50°	12723.7	10720.3	5204.1	2592.2	1932.3	1813.7	1651.7	1552.9	1485.8	1434.4
15726.9	52.5°	14596.7	11925.5	5093.4	2193.1	1730.7	1667.5	1616.2	1549.0	1489.7	1446.2
17690.7	55°	16386.8	13261.1	4974.9	1865.1	1588.5	1596.4	1624.1	1564.8	1513.4	1446.2
19891.7	57.5°	18402.0	14624.4	4536.3	1624.1	1481.8	1560.8	1616.2	1549.0	1497.6	1446.2
22144.1	60°	19646.7	15391.0	3678.8	1414.6	1387.0	1493.7	1568.7	1497.6	1442.3	1462.0
23179.3	62.5°	20152.5	14987.9	2773.9	1284.2	1319.8	1402.8	1493.7	1466.0	1426.5	1501.6
23167.5	65°	19291.1	14059.3	1983.6	1173.6	1228.9	1311.9	1426.5	1458.1	1469.9	1616.2
21278.7	67.5°	17165.2	12241.7	1458.1	1082.7	1134.1	1256.6	1473.9	1525.3	1517.4	1699.1
17856.7	70°	13735.3	9574.4	1138.0	1007.6	1098.5	1300.0	1541.1	1541.1	1485.8	1699.1
13620.7	72.5°	9993.3	6749.1	980.0	920.7	1007.6	1193.3	1533.2	1529.2	1458.1	1552.9
8673.5	75°	6049.7	3927.8	865.4	833.8	865.4	1023.4	1466.0	1442.3	1343.5	1335.6
4172.8	77.5°	3015.0	1975.7	707.3	738.9	754.7	857.5	1288.2	1323.7	1189.4	1157.8
1647.8	80°	1272.4	861.4	588.8	636.2	636.2	723.1	1070.8	1094.6	987.9	928.6
652.0	82.5°	580.9	493.9	501.8	553.2	517.6	561.1	849.6	877.2	802.1	703.4
276.6	85°	245.0	280.6	383.3	434.7	383.3	363.5	584.8	616.4	521.6	434.7
118.5	87.5°	110.6	154.1	241.0	316.1	193.6	169.9	312.2	324.0	260.8	193.6
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>
4532.3
4528.4
4694.4
4860.3
4852.4
4726.0
4643.0
4556.0
4374.3
4141.1
3888.2
3516.8
3109.8
2702.8
2327.4
2046.9
1825.6
1628.0
1525.3
1466.0
1442.3
1442.3
1442.3
1442.3
1446.2
1481.8
1616.2
1711.0
1663.6
1497.6
1319.8
1138.0
908.8
687.6
438.6
181.8
0.0

F REPORT)