

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: P477901

Luminaire Tested: **IFLD-S-SA6D-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477901
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

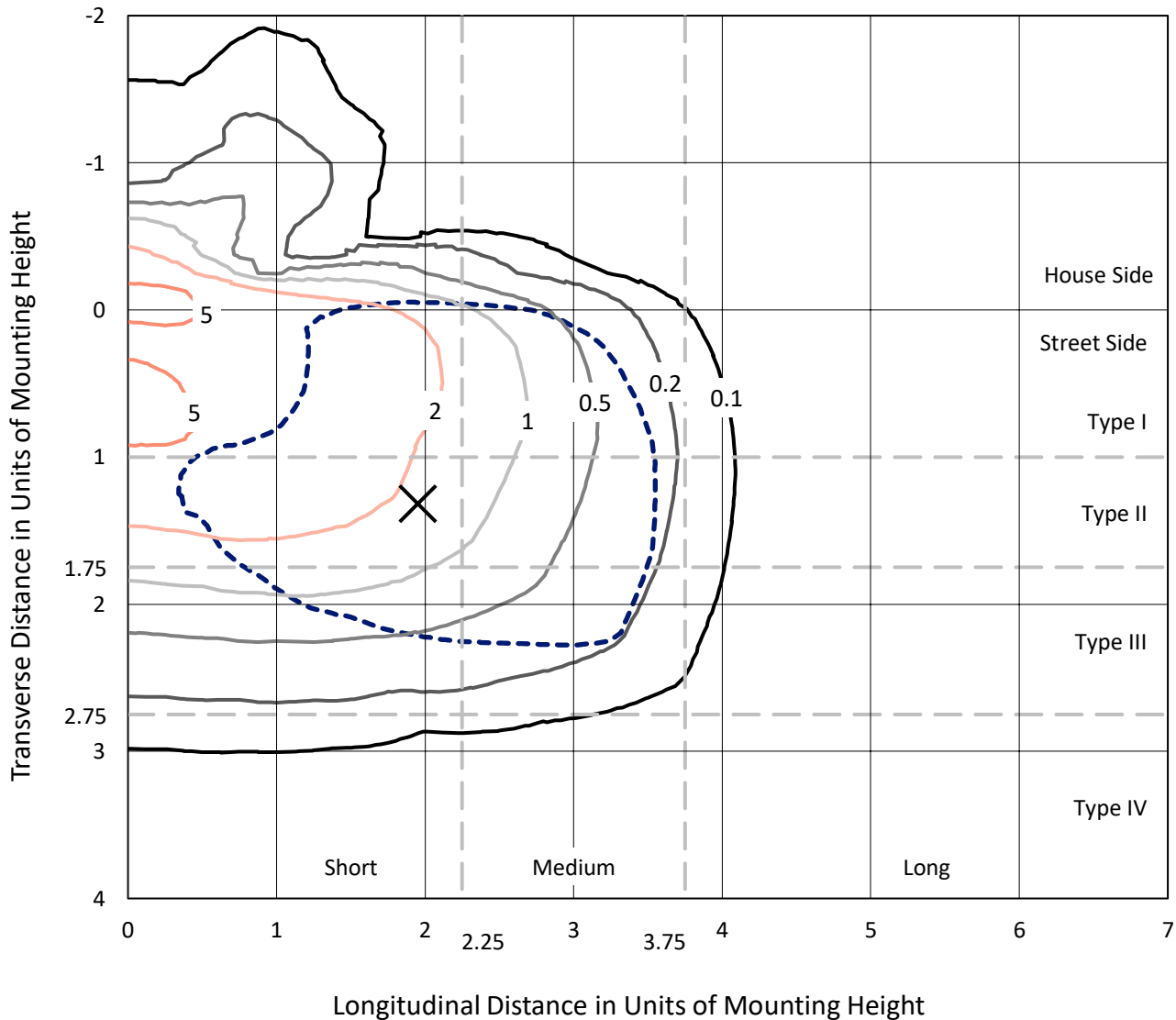
Lumens per Lamp: N/A
Luminaire Lumens: 33015.1 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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: P477901
 CATALOG NUMBER: IFLD-S-SA6D-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

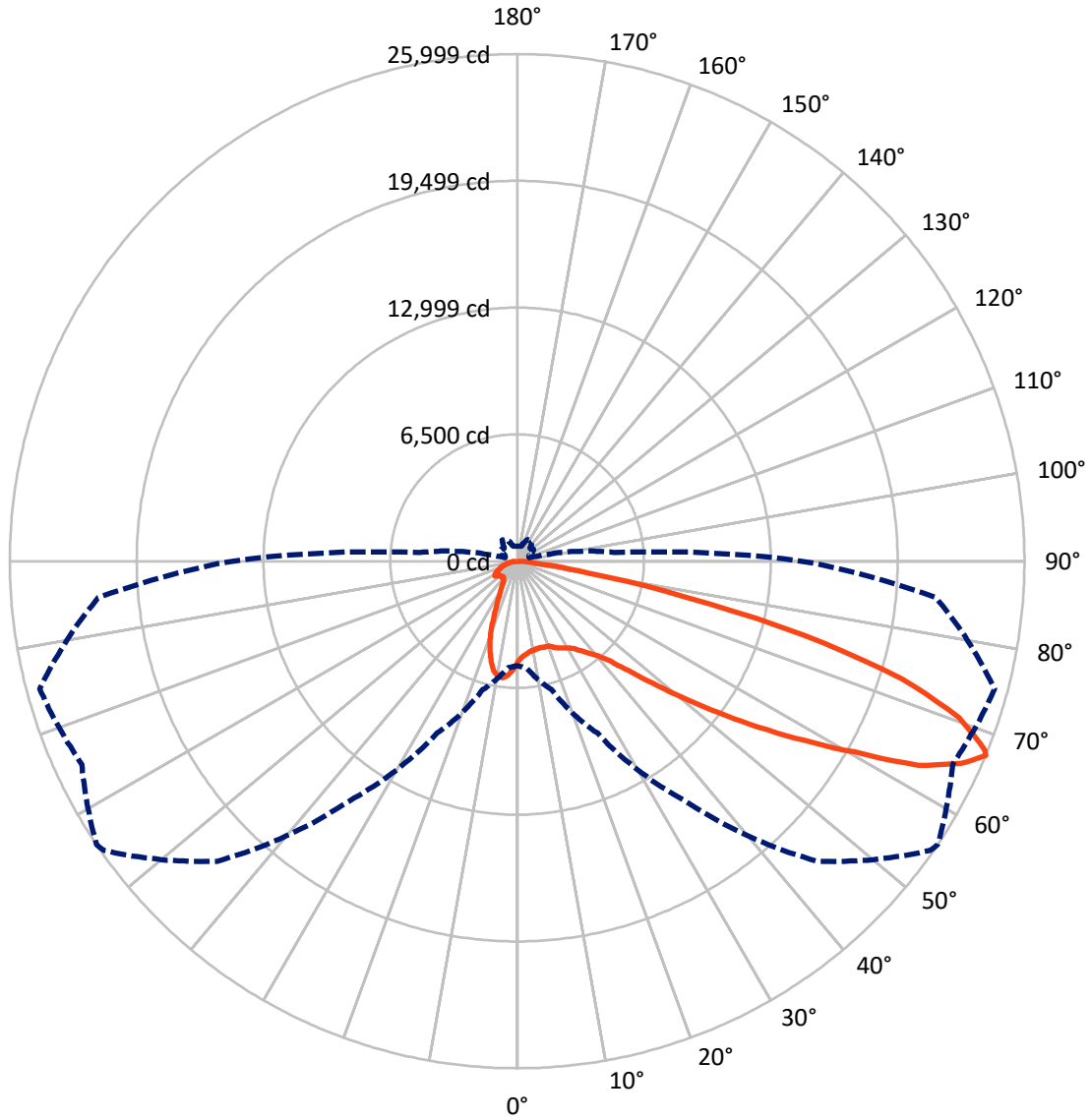
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

REPORT NUMBER: P477901
CATALOG NUMBER: IFLD-S-SA6D-827-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477901
 CATALOG NUMBER: IFLD-S-SA6D-827-U-T3R

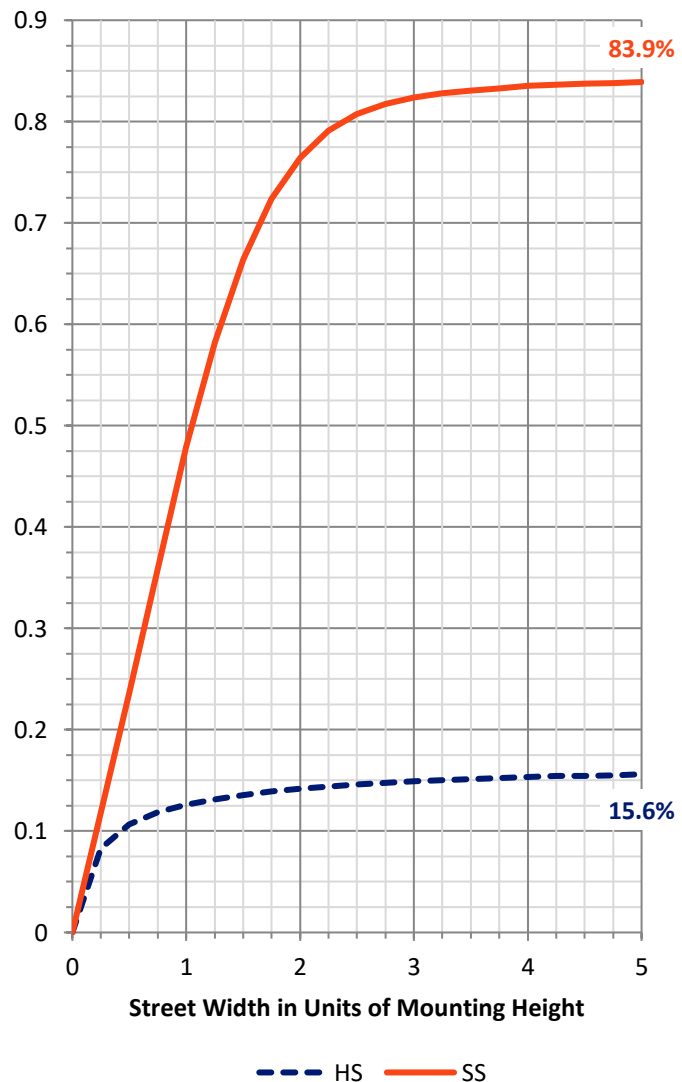
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5226.6	0.0	5226.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	27788.5	0.0	27788.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	33015.1	0.0	33015.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.9	1.5
10°-20°	1350.1	4.1
20°-30°	2117.4	6.4
30°-40°	3022.6	9.2
40°-50°	4562.0	13.8
50°-60°	7261.9	22.0
60°-70°	9283.8	28.1
70°-80°	4526.5	13.7
80°-90°	396.0	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°	33015.1	100.0
0°-180°	33015.1	100.0

Coefficient of Utilization

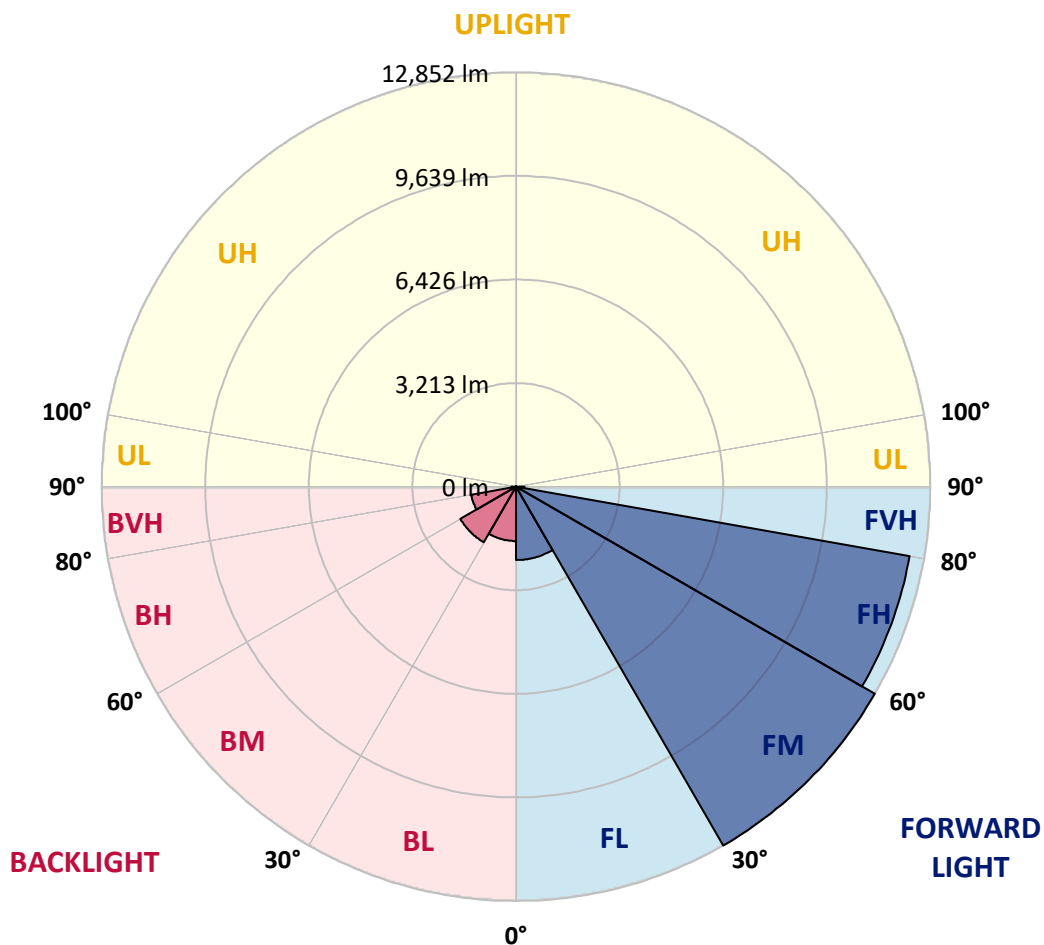


REPORT NUMBER: P477901
 CATALOG NUMBER: IFLD-S-SA6D-827-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2275.1	6.9			
FM (30°-60°)	12852.5	38.9			
FH (60°-80°)	12397.9	37.6			G5
FVH (80°-90°)	263.0	0.8			G3/500
BL (0°-30°)	1687.3	5.1	B3/2500		
BM (30°-60°)	1994.0	6.0	B2/2500		
BH (60°-80°)	1412.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	133.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





REPORT NUMBER: P477901
 CATALOG NUMBER: IFLD-S-SA6D-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
2.5°	4719.0	4699.6	4722.8	4699.6	4804.1	4866.1	4885.4	4912.5	5009.3	5102.2
5°	4521.5	4436.4	4529.3	4560.3	4568.0	4672.5	4780.9	4800.3	4850.6	5001.6
7.5°	4192.5	4289.3	4254.4	4347.3	4444.1	4548.6	4726.7	4676.4	4862.2	5005.4
10°	4122.8	4130.6	4169.3	4204.1	4289.3	4424.8	4672.5	4641.6	4831.2	5137.1
12.5°	4192.5	4192.5	4180.9	4153.8	4250.6	4382.2	4579.6	4595.1	4893.2	5175.8
15°	4436.4	4482.8	4359.0	4378.3	4339.6	4382.2	4556.4	4591.2	4916.4	5206.7
17.5°	5032.5	5017.1	4870.0	4664.8	4494.4	4467.3	4587.4	4626.1	4893.2	5295.8
20°	5613.2	5582.3	5326.8	5113.8	4777.0	4618.3	4637.7	4641.6	4931.9	5353.9
22.5°	6259.7	6341.0	6062.3	5628.7	5210.6	4815.8	4738.3	4800.3	5020.9	5384.8
25°	7274.0	7099.8	6859.7	6290.7	5617.1	5121.6	4904.8	4935.8	5106.1	5462.2
27.5°	8005.6	7935.9	7560.4	7099.8	6186.2	5361.6	4993.8	5051.9	5260.9	5458.4
30°	8710.2	8710.2	8481.8	7792.7	6786.2	5764.2	5183.5	5156.4	5187.4	5450.6
32.5°	9534.7	9422.5	9093.4	8636.6	7541.1	6132.0	5334.5	5342.2	5342.2	5593.9
35°	9968.3	10150.3	9929.6	9186.3	8117.9	6743.6	5698.4	5640.3	5597.7	5752.6
37.5°	10603.2	10711.6	10479.3	10041.9	8834.0	7239.1	6019.7	5973.2	5725.5	5876.5
40°	10986.4	10967.1	10959.3	10758.0	9782.5	7823.7	6492.0	6372.0	6039.1	6313.9
42.5°	11203.2	11164.5	11640.7	11516.8	10676.7	8683.1	7084.3	7018.5	6650.7	7092.0
45°	11447.1	11733.6	12124.6	12473.0	11718.1	9890.9	8086.9	7994.0	7665.0	8226.3
47.5°	11660.0	12012.3	12511.7	12883.3	12658.8	11203.2	9325.7	9348.9	9132.1	9708.9
50°	12016.2	12051.0	12728.5	13479.5	13653.7	12414.9	10990.3	10951.6	10854.8	11663.9
52.5°	11907.8	12012.3	12867.8	13827.9	14114.3	13696.3	12778.8	12894.9	12767.2	13785.3
55°	10142.5	10456.1	12782.7	14195.6	15206.0	15144.1	15078.3	15000.8	14993.1	16169.9
57.5°	9341.2	9596.7	11261.3	14602.1	16375.1	16831.9	17257.8	17342.9	17339.0	18759.8
60°	8814.7	9077.9	10645.8	14381.5	17370.0	19042.4	19859.2	19870.8	19847.6	21527.7
62.5°	7785.0	8040.5	9581.2	13173.6	17644.9	21082.5	22901.9	23052.9	21988.3	23912.3
65°	6546.2	6755.2	8114.0	11327.1	16913.2	22379.3	25189.8	25011.7	23792.3	25275.0
67°	5353.9	5493.2	6817.2	9724.4	15000.8	21756.1	25851.8	25998.9	24624.6	25333.0
67.5°	5013.2	5140.9	6391.3	9178.6	14273.1	21283.8	25875.0	25851.8	24640.1	25344.7
70°	3480.2	3534.4	4355.1	6313.9	10514.1	17981.7	23985.9	24040.1	23606.5	23970.4
72.5°	2307.2	2388.5	2911.1	3979.6	6197.8	13084.6	20048.9	20629.6	20354.7	19654.0
75°	1486.5	1533.0	1904.6	2369.2	3050.5	7452.0	14811.2	15198.3	14567.3	12155.5
77.5°	832.3	882.6	1149.7	1440.1	1486.5	3100.8	8319.2	8799.2	7455.9	5164.2
80°	518.7	584.5	867.1	855.5	708.4	1138.1	3429.9	3673.8	2980.8	1776.9
82.5°	391.0	441.3	669.7	600.0	398.7	507.1	1285.2	1378.1	1091.7	685.2
85°	267.1	336.8	483.9	371.6	209.0	243.9	511.0	549.7	499.4	332.9
87.5°	96.8	143.2	251.6	185.8	92.9	73.6	166.5	185.8	178.1	151.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477901
 CATALOG NUMBER: IFLD-S-SA6D-827-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5137.1	0°	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1	5137.1
5183.5	2.5°	5257.1	5311.3	5338.4	5497.1	5562.9	5551.3	5566.8	5590.0	5613.2	5644.2
5249.3	5°	5299.7	5466.1	5555.2	5741.0	5864.8	5810.7	5880.3	5861.0	5833.9	5830.0
5369.3	7.5°	5439.0	5651.9	5919.0	5969.4	6023.6	5888.1	5771.9	5613.2	5574.5	5439.0
5470.0	10°	5686.8	5861.0	6186.2	6205.5	5965.5	5617.1	5357.7	5028.7	5024.8	4827.4
5624.8	12.5°	5922.9	6120.3	6383.6	6271.3	5698.4	5222.2	4800.3	4440.3	4289.3	4188.6
5717.7	15°	6070.0	6395.2	6534.6	6050.7	5230.0	4587.4	4041.5	3654.4	3499.6	3426.0
5833.9	17.5°	6205.5	6658.4	6596.5	5663.5	4653.2	3933.1	3282.8	2946.0	2903.4	2849.2
6019.7	20°	6391.3	6755.2	6375.8	5160.3	3998.9	3089.2	2675.0	2512.4	2551.1	2574.3
6039.1	22.5°	6565.5	6805.5	6097.1	4610.6	3158.9	2446.6	2241.4	2276.3	2334.3	2411.7
6085.5	25°	6643.0	6886.8	5721.6	3851.8	2404.0	2059.5	2013.0	2071.1	2167.9	2171.7
6151.3	27.5°	6693.3	6828.8	5268.7	3112.4	1900.8	1800.1	1869.8	1912.4	1924.0	1970.4
6290.7	30°	6782.3	6708.8	4695.7	2225.9	1594.9	1598.8	1687.8	1687.8	1687.8	1722.7
6430.0	32.5°	6937.2	6627.5	4026.0	1625.9	1374.3	1498.1	1474.9	1467.2	1451.7	1409.1
6608.1	35°	7033.9	6406.8	3178.2	1203.9	1234.9	1374.3	1366.5	1246.5	1045.2	944.6
7061.0	37.5°	7235.2	6294.5	2338.2	929.1	1153.6	1312.3	1269.7	979.4	758.8	662.0
7622.4	40°	7668.8	6221.0	1618.2	812.9	1099.4	1281.4	1134.3	836.2	580.7	410.3
8489.5	42.5°	8199.2	6224.9	1099.4	766.5	1103.3	1347.2	1091.7	716.2	410.3	329.1
9647.0	45°	8911.5	6166.8	754.9	766.5	1173.0	1455.6	1118.8	650.4	398.7	418.1
11098.7	47.5°	9678.0	6217.1	561.3	696.8	1184.6	1459.4	1022.0	638.7	383.2	483.9
12678.1	50°	10572.2	6267.5	464.5	642.6	1188.5	1413.0	940.7	623.3	398.7	511.0
14489.9	52.5°	11493.6	6426.2	394.9	607.8	1234.9	1393.6	940.7	646.5	398.7	445.2
16797.1	55°	12867.8	6832.6	569.1	758.8	1405.2	1521.4	1157.5	905.9	557.5	572.9
19007.5	57.5°	14385.3	7250.7	634.9	797.5	1444.0	1370.4	1246.5	998.8	588.4	592.3
20726.3	60°	15384.1	7266.2	631.0	778.1	1351.0	1184.6	1219.4	1053.0	600.0	507.1
21790.9	62.5°	15782.8	6793.9	658.1	778.1	1258.1	1107.2	1250.4	1134.3	619.4	634.9
22092.9	65°	15329.9	5818.4	634.9	696.8	1107.2	991.0	1258.1	1149.7	677.5	638.7
21550.9	67°	14621.5	5013.2	646.5	662.0	1029.7	940.7	1323.9	1207.8	785.9	766.5
21268.3	67.5°	14420.2	4800.3	642.6	642.6	1002.6	925.2	1339.4	1207.8	801.3	793.6
18771.4	70°	12709.1	3890.5	658.1	634.9	886.5	878.8	1424.6	1273.6	921.3	929.1
13789.2	72.5°	9674.1	2949.8	654.2	634.9	770.4	840.0	1436.2	1316.2	1002.6	929.1
7723.0	75°	5497.1	1765.3	576.8	553.6	607.8	731.7	1343.3	1254.3	975.5	832.3
3085.3	77.5°	2272.4	909.7	530.4	499.4	503.3	596.2	1118.8	1169.1	929.1	708.4
1029.7	80°	847.8	545.8	425.8	398.7	387.1	437.4	797.5	933.0	793.6	580.7
452.9	82.5°	441.3	340.7	290.3	290.3	263.2	278.7	429.7	619.4	600.0	398.7
181.9	85°	224.5	193.6	166.5	162.6	147.1	131.6	216.8	367.8	344.5	220.7
81.3	87.5°	120.0	108.4	69.7	65.8	54.2	34.8	38.7	73.6	120.0	96.8
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



<u>180°</u>
5137.1
5675.2
5864.8
5485.5
4819.6
4165.4
3410.5
2876.3
2547.2
2369.2
2210.4
2013.0
1761.4
1385.9
991.0
658.1
398.7
321.3
425.8
538.1
592.3
456.8
603.9
572.9
522.6
642.6
627.1
754.9
778.1
859.4
824.6
743.3
669.7
530.4
313.6
181.9
69.7
0.0

F REPORT)