

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: P477953

Luminaire Tested: **IFLD-L-SA8B-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477953  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

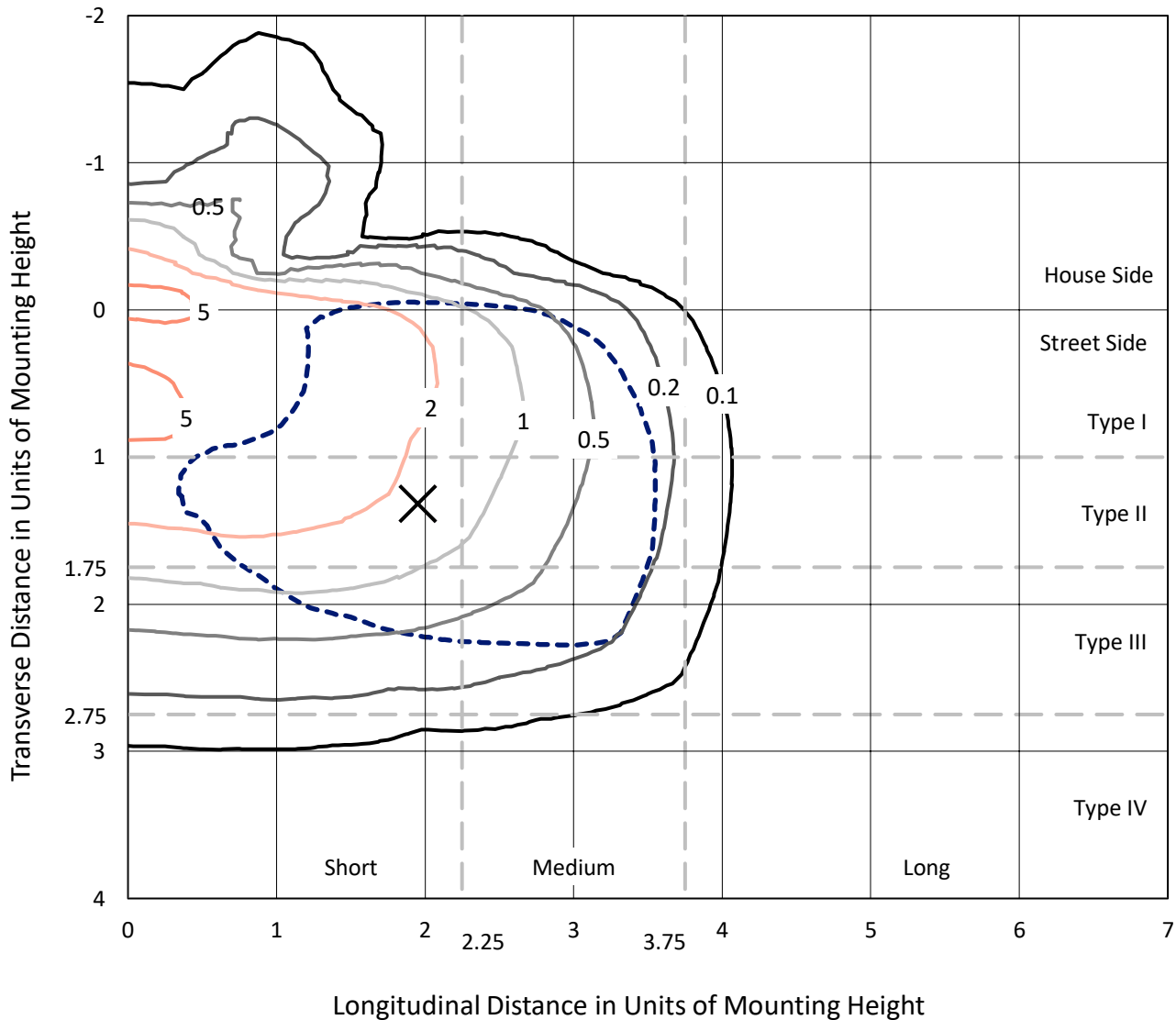
Lumens per Lamp: N/A  
Luminaire Lumens: 31766.7 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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: P477953  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

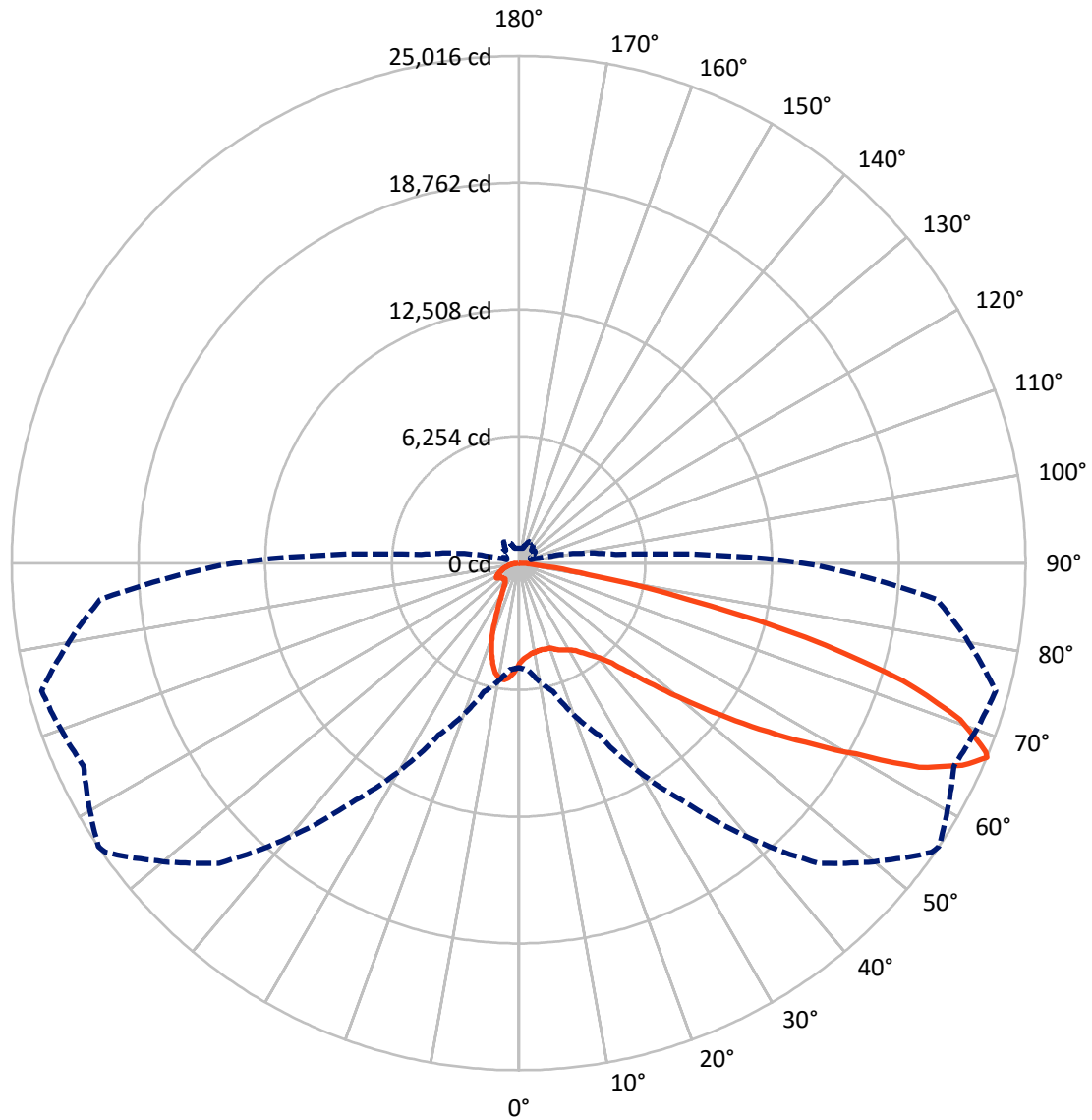
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P477953  
CATALOG NUMBER: IFLD-L-SA8B-830-U-T3R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P477953  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5029.0	0.0	5029.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	26737.7	0.0	26737.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	31766.7	0.0	31766.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.2	1.5
10°-20°	1299.1	4.1
20°-30°	2037.3	6.4
30°-40°	2908.3	9.2
40°-50°	4389.5	13.8
50°-60°	6987.3	22.0
60°-70°	8932.7	28.1
70°-80°	4355.3	13.7
80°-90°	381.0	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°	31766.7	100.0
0°-180°	31766.7	100.0

**Coefficient of Utilization**

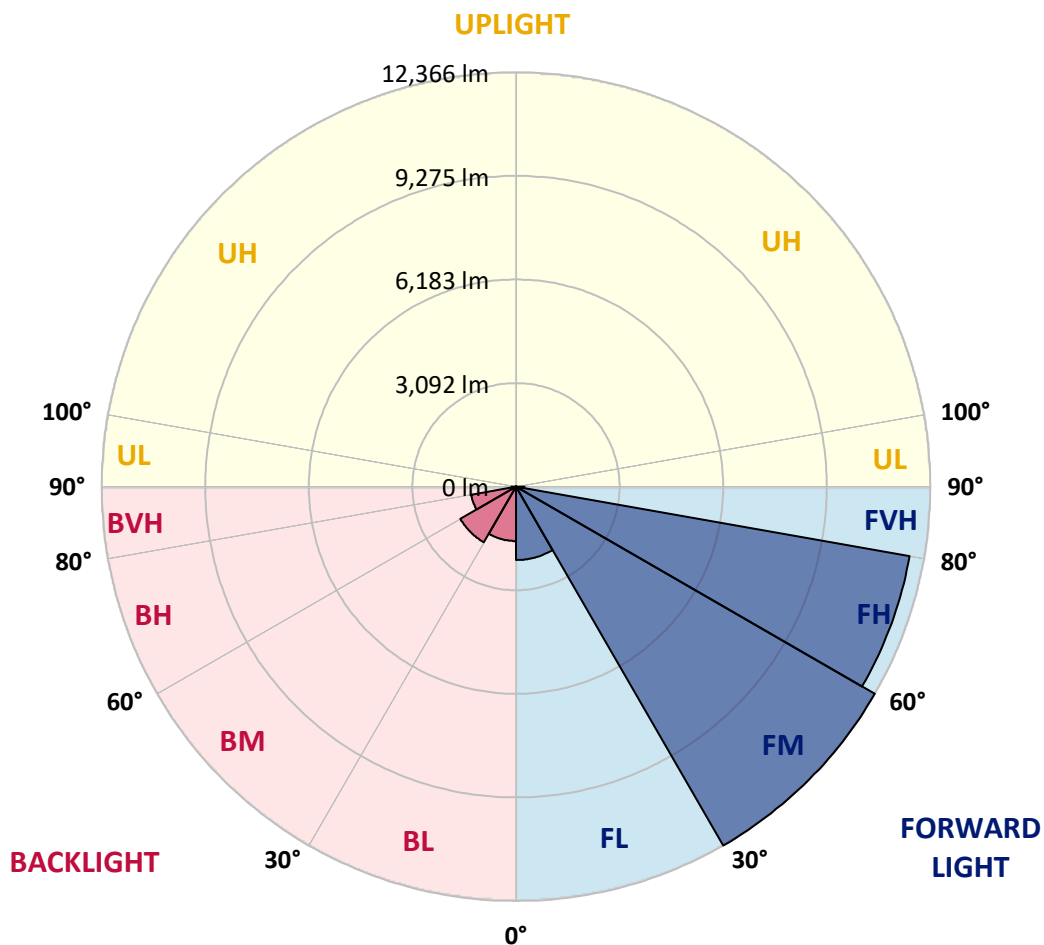


REPORT NUMBER: P477953  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-T3R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2189.1	6.9			
FM (30°-60°)	12366.5	38.9			
FH (60°-80°)	11929.1	37.6			G4/12000
FVH (80°-90°)	253.0	0.8			G3/500
BL (0°-30°)	1623.5	5.1	B3/2500		
BM (30°-60°)	1918.6	6.0	B2/2500		
BH (60°-80°)	1358.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	128.0	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-G4**  
 Type III Short





REPORT NUMBER: P477953  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8
2.5°	4540.5	4521.9	4544.3	4521.9	4622.5	4682.1	4700.7	4726.8	4819.9	4909.3
5°	4350.6	4268.6	4358.0	4387.8	4395.3	4495.8	4600.1	4618.8	4667.2	4812.4
7.5°	4034.0	4127.1	4093.6	4183.0	4276.1	4376.6	4548.0	4499.6	4678.3	4816.2
10°	3966.9	3974.4	4011.6	4045.1	4127.1	4257.4	4495.8	4466.0	4648.6	4942.8
12.5°	4034.0	4034.0	4022.8	3996.7	4089.8	4216.5	4406.4	4421.3	4708.1	4980.1
15°	4268.6	4313.3	4194.1	4212.7	4175.5	4216.5	4384.1	4417.6	4730.5	5009.9
17.5°	4842.2	4827.3	4685.8	4488.4	4324.5	4298.4	4413.9	4451.1	4708.1	5095.5
20°	5401.0	5371.2	5125.3	4920.5	4596.4	4443.7	4462.3	4466.0	4745.4	5151.4
22.5°	6023.0	6101.2	5833.0	5415.9	5013.6	4633.7	4559.2	4618.8	4831.1	5181.2
25°	6998.9	6831.3	6600.3	6052.8	5404.7	4927.9	4719.3	4749.1	4913.0	5255.7
27.5°	7702.9	7635.8	7274.5	6831.3	5952.2	5158.8	4805.0	4860.9	5062.0	5252.0
30°	8380.8	8380.8	8161.0	7498.0	6529.6	5546.2	4987.5	4961.4	4991.2	5244.5
32.5°	9174.2	9066.2	8749.6	8310.0	7255.9	5900.1	5132.8	5140.2	5140.2	5382.3
35°	9591.4	9766.4	9554.1	8839.0	7810.9	6488.6	5482.9	5427.0	5386.1	5535.1
37.5°	10202.2	10306.5	10083.0	9662.1	8500.0	6965.4	5792.1	5747.4	5509.0	5654.2
40°	10571.0	10552.4	10544.9	10351.2	9412.6	7527.8	6246.5	6131.0	5810.7	6075.1
42.5°	10779.6	10742.3	11200.5	11081.3	10273.0	8354.7	6816.4	6753.1	6399.2	6823.8
45°	11014.2	11289.9	11666.1	12001.3	11275.0	9516.9	7781.1	7691.7	7375.1	7915.2
47.5°	11219.1	11558.1	12038.6	12396.1	12180.1	10779.6	8973.0	8995.4	8786.8	9341.8
50°	11561.8	11595.3	12247.1	12969.8	13137.4	11945.4	10574.7	10537.5	10444.3	11222.8
52.5°	11457.5	11558.1	12381.2	13305.0	13580.6	13178.3	12295.6	12407.3	12284.4	13264.0
55°	9759.0	10060.7	12299.3	13658.8	14631.0	14571.4	14508.1	14433.6	14426.2	15558.5
57.5°	8987.9	9233.8	10835.4	14049.9	15755.9	16195.4	16605.2	16687.1	16683.4	18050.4
60°	8481.4	8734.7	10243.2	13837.6	16713.2	18322.3	19108.2	19119.4	19097.0	20713.6
62.5°	7490.6	7736.4	9218.9	12675.5	16977.6	20285.3	22035.9	22181.2	21156.9	23008.1
65°	6298.6	6499.8	7807.2	10898.8	16273.7	21533.1	24237.3	24065.9	22892.6	24319.2
67°	5151.4	5285.5	6559.4	9356.7	14433.6	20933.4	24874.2	25015.8	23693.5	24375.1
67.5°	4823.6	4946.5	6149.6	8831.5	13733.3	20479.0	24896.6	24874.2	23708.4	24386.3
70°	3348.6	3400.7	4190.4	6075.1	10116.6	17301.7	23078.9	23131.0	22713.8	23064.0
72.5°	2220.0	2298.2	2801.0	3829.1	5963.4	12589.8	19290.7	19849.5	19585.0	18910.8
75°	1430.3	1475.0	1832.6	2279.6	2935.1	7170.2	14251.1	14623.6	14016.4	11695.9
77.5°	800.8	849.3	1106.3	1385.6	1430.3	2983.6	8004.6	8466.5	7174.0	4968.9
80°	499.1	562.4	834.4	823.2	681.6	1095.1	3300.2	3534.8	2868.1	1709.7
82.5°	376.2	424.6	644.4	577.3	383.7	487.9	1236.6	1326.0	1050.4	659.3
85°	257.0	324.1	465.6	357.6	201.1	234.7	491.7	528.9	480.5	320.3
87.5°	93.1	137.8	242.1	178.8	89.4	70.8	160.2	178.8	171.3	145.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477953  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4942.8	0°	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8
4987.5	2.5°	5058.3	5110.4	5136.5	5289.2	5352.5	5341.4	5356.3	5378.6	5401.0	5430.8
5050.8	5°	5099.3	5259.4	5345.1	5523.9	5643.1	5590.9	5658.0	5639.3	5613.3	5609.5
5166.3	7.5°	5233.3	5438.2	5695.2	5743.6	5795.8	5665.4	5553.7	5401.0	5363.7	5233.3
5263.1	10°	5471.7	5639.3	5952.2	5970.9	5739.9	5404.7	5155.1	4838.5	4834.8	4644.8
5412.1	12.5°	5698.9	5888.9	6142.2	6034.2	5482.9	5024.8	4618.8	4272.3	4127.1	4030.2
5501.5	15°	5840.5	6153.4	6287.5	5821.9	5032.2	4413.9	3888.7	3516.2	3367.2	3296.4
5613.3	17.5°	5970.9	6406.7	6347.1	5449.4	4477.2	3784.4	3158.6	2834.6	2793.6	2741.5
5792.1	20°	6149.6	6499.8	6134.7	4965.2	3847.7	2972.4	2573.8	2417.4	2454.6	2477.0
5810.7	22.5°	6317.3	6548.2	5866.6	4436.2	3039.4	2354.1	2156.7	2190.2	2246.1	2320.6
5855.4	25°	6391.8	6626.4	5505.3	3706.2	2313.1	1981.6	1936.9	1992.8	2085.9	2089.6
5918.7	27.5°	6440.2	6570.5	5069.5	2994.7	1828.9	1732.0	1799.1	1840.1	1851.2	1895.9
6052.8	30°	6525.8	6455.1	4518.2	2141.8	1534.6	1538.3	1624.0	1624.0	1624.0	1657.5
6186.9	32.5°	6674.8	6376.9	3873.8	1564.4	1322.3	1441.5	1419.1	1411.7	1396.8	1355.8
6358.2	35°	6768.0	6164.5	3058.1	1158.4	1188.2	1322.3	1314.9	1199.4	1005.7	908.9
6794.0	37.5°	6961.7	6056.5	2249.8	894.0	1110.0	1262.7	1221.7	942.4	730.1	636.9
7334.1	40°	7378.8	5985.8	1557.0	782.2	1057.8	1232.9	1091.4	804.6	558.7	394.8
8168.5	42.5°	7889.1	5989.5	1057.8	737.5	1061.6	1296.2	1050.4	689.1	394.8	316.6
9282.2	45°	8574.5	5933.6	726.3	737.5	1128.6	1400.5	1076.5	625.8	383.7	402.3
10679.0	47.5°	9312.0	5982.0	540.1	670.5	1139.8	1404.2	983.3	614.6	368.8	465.6
12198.7	50°	10172.4	6030.5	447.0	618.3	1143.5	1359.6	905.1	599.7	383.7	491.7
13941.9	52.5°	11058.9	6183.2	379.9	584.8	1188.2	1340.9	905.1	622.0	383.7	428.4
16161.9	55°	12381.2	6574.3	547.5	730.1	1352.1	1463.8	1113.7	871.6	536.4	551.3
18288.8	57.5°	13841.4	6976.6	610.9	767.3	1389.4	1318.6	1199.4	961.0	566.2	569.9
19942.6	60°	14802.4	6991.4	607.1	748.7	1300.0	1139.8	1173.3	1013.1	577.3	487.9
20966.9	62.5°	15186.0	6537.0	633.2	748.7	1210.6	1065.3	1203.1	1091.4	596.0	610.9
21257.4	65°	14750.2	5598.4	610.9	670.5	1065.3	953.5	1210.6	1106.3	651.8	614.6
20736.0	67°	14068.6	4823.6	622.0	636.9	990.8	905.1	1273.9	1162.1	756.1	737.5
20464.1	67.5°	13874.9	4618.8	618.3	618.3	964.7	890.2	1288.8	1162.1	771.0	763.6
18061.6	70°	12228.5	3743.4	633.2	610.9	853.0	845.5	1370.7	1225.5	886.5	894.0
13267.7	72.5°	9308.3	2838.3	629.5	610.9	741.2	808.3	1381.9	1266.4	964.7	894.0
7431.0	75°	5289.2	1698.5	555.0	532.6	584.8	704.0	1292.5	1206.8	938.6	800.8
2968.7	77.5°	2186.5	875.3	510.3	480.5	484.2	573.6	1076.5	1124.9	894.0	681.6
990.8	80°	815.7	525.2	409.7	383.7	372.5	420.9	767.3	897.7	763.6	558.7
435.8	82.5°	424.6	327.8	279.4	279.4	253.3	268.2	413.5	596.0	577.3	383.7
175.1	85°	216.0	186.2	160.2	156.4	141.5	126.6	208.6	353.9	331.5	212.3
78.2	87.5°	115.5	104.3	67.0	63.3	52.1	33.5	37.2	70.8	115.5	93.1
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>
4942.8
5460.6
5643.1
5278.0
4637.4
4007.9
3281.5
2767.5
2450.9
2279.6
2126.9
1936.9
1694.8
1333.5
953.5
633.2
383.7
309.2
409.7
517.7
569.9
439.5
581.1
551.3
502.8
618.3
603.4
726.3
748.7
826.9
793.4
715.2
644.4
510.3
301.7
175.1
67.0
0.0

F REPORT)