

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: P636789

Luminaire Tested: **IFLD-L-SA7D-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636789  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24913.3 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

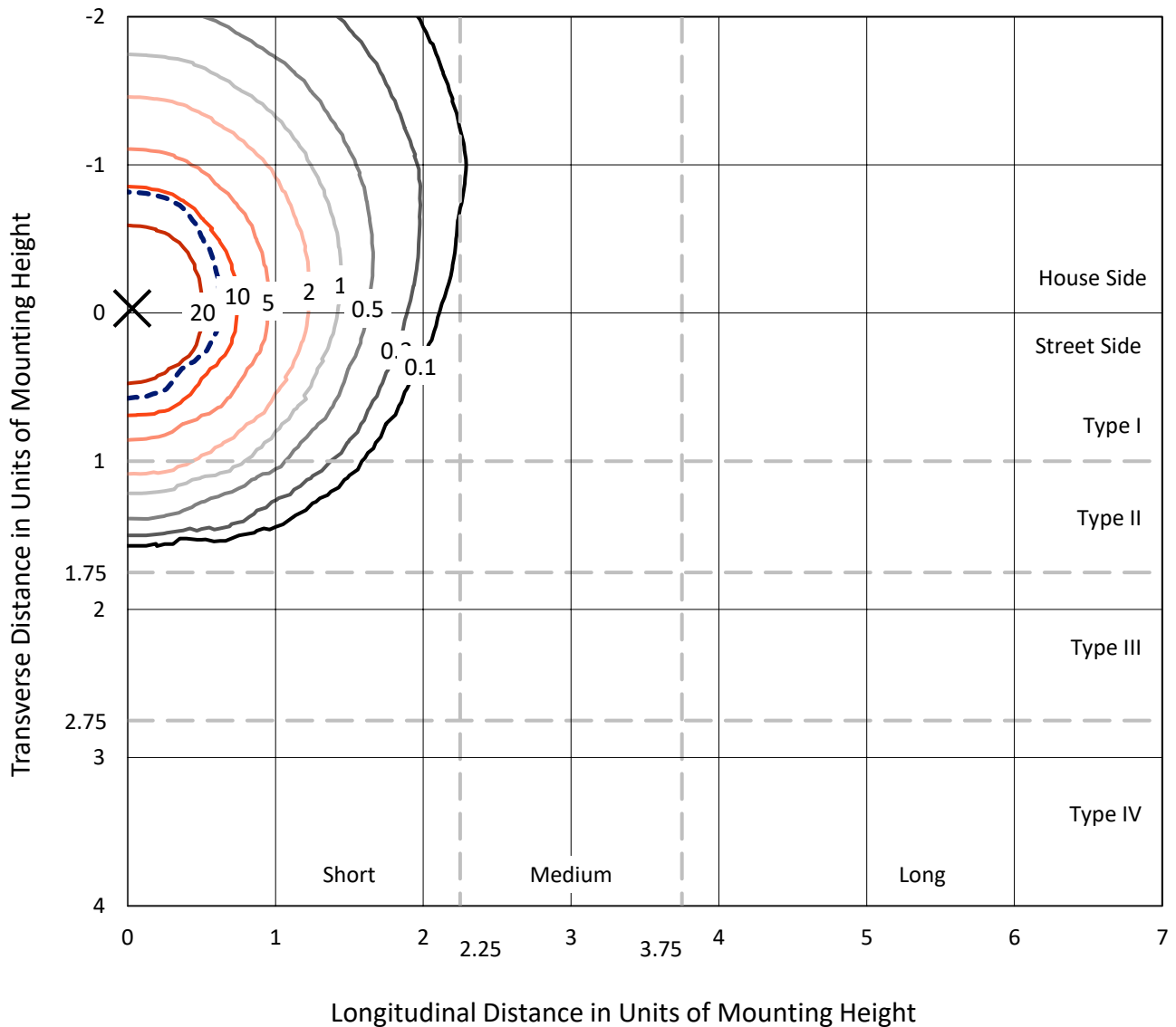
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P636789  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

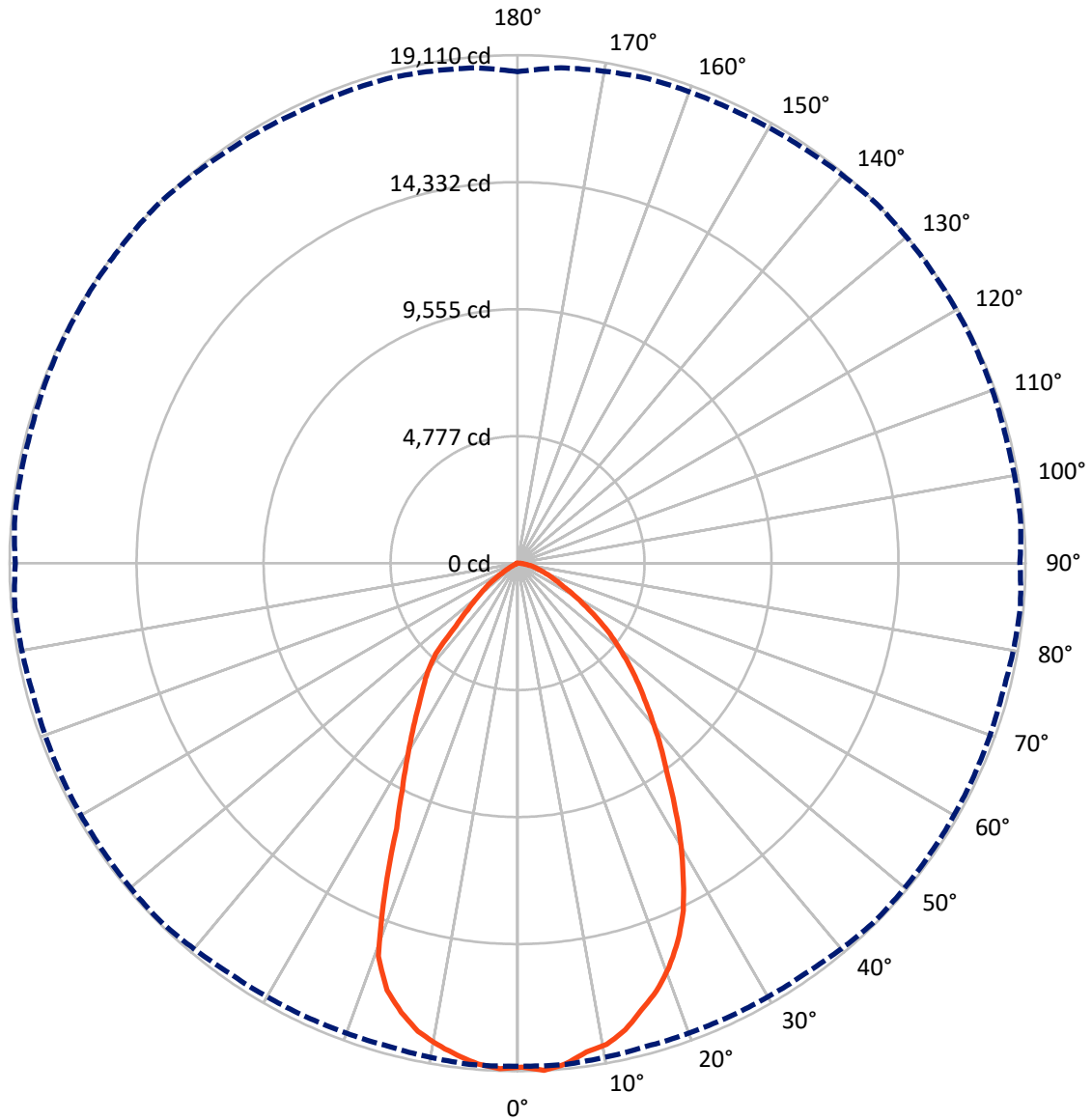
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 47.4 fc  
 Type I - Short - N/A

REPORT NUMBER: P636789  
CATALOG NUMBER: IFLD-L-SA7D-935-U-77-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P636789

CATALOG NUMBER: IFLD-L-SA7D-935-U-77-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14754.9	0.0	14754.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	10158.4	0.0	10158.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	24913.3	0.0	24913.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1778.0	7.1
10°-20°	4768.0	19.1
20°-30°	5814.8	23.3
30°-40°	5308.8	21.3
40°-50°	3836.6	15.4
50°-60°	2094.8	8.4
60°-70°	866.1	3.5
70°-80°	350.8	1.4
80°-90°	95.4	0.4
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°	24913.3	100.0
0°-180°	24913.3	100.0



REPORT NUMBER: P636789

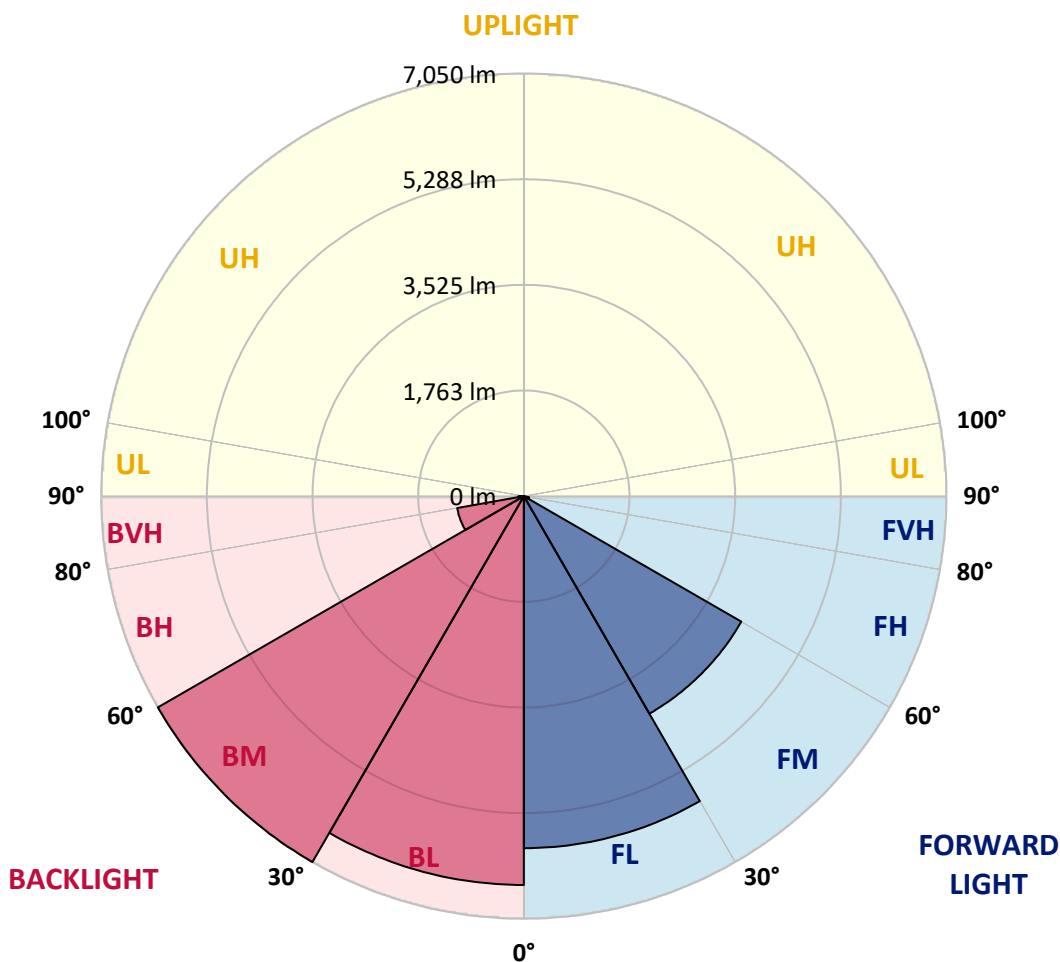
CATALOG NUMBER: IFLD-L-SA7D-935-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5873.0	23.6			
FM (30°-60°)	4190.0	16.8			
FH (60°-80°)	87.8	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	6487.8	26.0	B5		
BM (30°-60°)	7050.3	28.3	B4/8500		
BH (60°-80°)	1129.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	87.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





REPORT NUMBER: P636789  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0
2.5°	18923.9	18948.5	18815.1	18829.2	18853.7	19032.7	18987.0	18944.9	18885.3	18987.0
5°	18899.3	18913.4	18773.0	18723.9	18745.0	18906.4	18759.0	18759.0	18745.0	18727.4
7.5°	18709.9	18716.9	18608.1	18520.4	18576.6	18650.2	18541.5	18594.1	18516.9	18576.6
10°	18425.7	18380.1	18250.3	18225.7	18288.9	18359.1	18285.4	18334.5	18264.3	18309.9
12.5°	18008.2	17938.1	17832.8	17801.2	17910.0	18004.7	17945.1	17917.0	17825.8	17938.1
15°	16397.9	16345.3	16583.8	17001.3	17376.7	17457.4	17394.3	17422.3	17232.9	17264.5
17.5°	13496.5	13398.3	13654.4	14643.7	16054.1	16797.9	16741.7	16559.3	16278.6	16341.8
20°	12265.1	12237.0	12209.0	12444.0	13429.9	15685.7	15762.9	15299.8	14899.8	14812.1
22.5°	11570.4	11559.9	11531.9	11584.5	11844.1	13293.0	14177.1	13749.1	13482.5	13457.9
25°	10935.4	10917.9	10833.7	10900.4	10900.4	10984.6	12117.7	12377.4	12142.3	12114.2
27.5°	10289.9	10258.3	10244.3	10275.9	10114.5	9546.1	9833.8	11100.3	10977.5	10984.6
30°	9591.8	9581.2	9542.6	9609.3	9111.1	8405.9	8223.5	9942.6	9967.1	9960.1
32.5°	8553.3	8598.9	8774.3	8848.0	8027.0	7444.7	7139.4	8602.4	9104.1	9093.6
35°	6213.2	6213.2	6785.1	7848.1	7034.2	6595.6	6430.8	7293.8	8251.6	8286.7
37.5°	5108.1	5125.7	5237.9	5722.1	6069.4	5915.0	5865.9	6139.6	7157.0	7213.1
40°	4595.9	4595.9	4595.9	4395.9	4385.4	5329.1	5301.1	5213.4	6181.7	6304.5
42.5°	4129.3	4139.8	4146.8	3641.6	3361.0	4606.4	4543.3	4410.0	5308.1	5451.9
45°	3648.7	3666.2	3687.2	3045.2	2922.4	3315.4	3845.1	3697.8	4445.0	4631.0
47.5°	2227.8	2255.9	2733.0	2582.1	2596.2	2557.6	3136.4	3111.9	3645.1	3908.3
50°	1505.1	1515.6	1561.2	1638.4	2227.8	2010.3	2220.8	2575.1	2768.1	3168.0
52.5°	1263.0	1280.5	1168.3	1063.0	1463.0	1571.7	1550.7	1912.0	1989.2	2483.9
55°	887.6	943.7	891.1	880.6	831.5	1220.9	1175.3	1470.0	1519.1	1887.5
57.5°	91.2	105.2	182.4	656.1	543.8	691.1	838.5	1077.1	1126.2	1392.8
60°	7.0	7.0	17.5	91.2	396.4	414.0	578.9	663.1	757.8	971.8
62.5°	0.0	3.5	7.0	14.0	63.1	221.0	291.2	347.3	456.1	628.0
65°	0.0	0.0	3.5	10.5	14.0	84.2	112.3	182.4	249.1	389.4
67.5°	0.0	0.0	3.5	7.0	10.5	21.0	38.6	66.7	133.3	221.0
70°	0.0	0.0	3.5	7.0	10.5	17.5	28.1	42.1	59.6	119.3
72.5°	0.0	0.0	3.5	3.5	7.0	17.5	21.0	28.1	42.1	59.6
75°	0.0	0.0	3.5	3.5	10.5	21.0	17.5	21.0	28.1	38.6
77.5°	0.0	0.0	3.5	7.0	10.5	21.0	17.5	21.0	21.0	24.6
80°	0.0	0.0	3.5	7.0	14.0	24.6	21.0	21.0	17.5	17.5
82.5°	0.0	0.0	3.5	10.5	14.0	31.6	31.6	28.1	14.0	10.5
85°	0.0	0.0	7.0	14.0	21.0	35.1	35.1	28.1	10.5	7.0
87.5°	0.0	0.0	7.0	10.5	17.5	24.6	35.1	28.1	10.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636789

CATALOG NUMBER: IFLD-L-SA7D-935-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18959.0	0°	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0	18959.0
18899.3	2.5°	18994.1	18973.0	19043.2	19071.2	19109.8	18962.5	18871.3	18874.8	18706.4
18685.3	5°	18797.6	18801.1	18892.3	18885.3	18923.9	18843.2	18808.1	18748.5	18601.1
18415.2	7.5°	18548.5	18516.9	18604.6	18671.3	18573.1	18629.2	18548.5	18576.6	18488.9
18176.6	10°	18355.5	18281.9	18362.6	18408.2	18411.7	18355.5	18278.4	18204.7	18173.1
17804.7	12.5°	17927.5	17832.8	17969.6	18032.8	18022.3	17913.5	17825.8	17843.3	17741.6
17152.2	15°	17338.1	17341.6	17439.9	17499.5	17443.4	17418.8	17425.8	17383.7	17296.0
16250.6	17.5°	16436.5	16489.1	16748.7	16892.6	16924.1	16875.0	16850.5	16801.4	16713.7
14812.1	20°	14934.9	15250.7	15713.8	16159.3	16247.0	16233.0	16145.3	16124.3	16075.1
13387.8	22.5°	13615.8	13850.9	14387.6	15082.3	15440.1	15475.2	15370.0	15338.4	15285.8
12114.2	25°	12251.1	12503.7	12987.8	13742.1	14482.4	14633.2	14615.7	14520.9	14464.8
10984.6	27.5°	11100.3	11352.9	11791.5	12472.1	13265.0	13749.1	13794.7	13643.9	13640.4
9977.7	30°	10061.9	10409.2	10742.5	11296.8	12065.1	12791.3	12868.5	12763.3	12773.8
9055.0	32.5°	9247.9	9535.6	9819.8	10191.7	10830.2	11675.7	11977.4	11879.2	11840.6
8286.7	35°	8416.5	8612.9	8904.1	9244.4	9679.5	10518.0	11040.7	10967.0	10928.4
7248.2	37.5°	7469.2	7806.0	8016.5	8398.9	8739.2	9405.8	10142.6	10132.0	10051.3
6364.1	40°	6497.4	6851.8	7171.0	7556.9	7820.1	8349.8	9167.2	9163.7	9174.3
5448.4	42.5°	5616.8	5943.1	6329.0	6750.0	7002.6	7388.5	8265.6	8314.7	8374.4
4694.1	45°	4820.4	5115.1	5473.0	5985.2	6290.4	6511.4	7290.3	7514.8	7511.3
4020.5	47.5°	4104.7	4381.9	4683.6	5181.8	5571.2	5771.2	6416.7	6736.0	6714.9
3297.8	50°	3445.2	3690.8	4006.5	4367.9	4890.6	5066.0	5546.7	5967.7	5936.1
2627.7	52.5°	2771.6	3111.9	3378.5	3708.3	4259.1	4431.0	4802.9	5213.4	5188.8
1971.7	55°	2161.1	2490.9	2813.7	3097.8	3560.9	3817.1	4083.7	4504.7	4497.7
1543.7	57.5°	1634.9	1996.2	2301.5	2571.6	2940.0	3255.7	3469.7	3852.1	3901.3
1056.0	60°	1210.4	1487.5	1817.3	2119.0	2410.2	2736.5	2880.3	3255.7	3276.8
722.7	62.5°	824.5	1129.7	1452.4	1726.1	1943.6	2280.4	2410.2	2719.0	2757.5
463.1	65°	571.9	768.3	1136.7	1333.2	1599.8	1887.5	2017.3	2262.9	2340.1
266.6	67.5°	378.9	547.3	887.6	1066.5	1329.7	1526.1	1691.0	1891.0	1975.2
168.4	70°	207.0	403.5	635.0	842.0	1070.0	1259.5	1420.9	1582.3	1655.9
77.2	72.5°	140.3	270.1	442.0	666.6	863.0	1049.0	1192.8	1312.1	1315.6
45.6	75°	70.2	182.4	336.8	515.7	673.6	856.0	985.8	1056.0	971.8
28.1	77.5°	42.1	133.3	273.6	414.0	547.3	691.1	764.8	803.4	666.6
21.0	80°	24.6	94.7	214.0	329.8	378.9	508.7	578.9	589.4	445.6
14.0	82.5°	17.5	70.2	168.4	242.1	231.5	357.8	435.0	421.0	284.2
10.5	85°	10.5	49.1	105.2	150.9	140.3	235.1	252.6	259.6	164.9
7.0	87.5°	7.0	28.1	56.1	80.7	66.7	101.7	101.7	122.8	80.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
18959.0
18488.9
18566.0
18341.5
18032.8
17653.9
17208.3
16675.1
15962.9
15271.7
14405.2
13633.3
12721.2
11844.1
10875.8
10118.0
9174.3
8342.8
7518.3
6721.9
5964.1
5241.4
4515.2
3880.2
3308.3
2764.6
2322.5
1964.7
1627.9
1284.0
908.7
642.0
417.5
263.1
150.9
70.2
0.0

(END OF REPORT)