

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: P638108

Luminaire Tested: **IFLD-S-SA3D-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638108
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16324.7 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

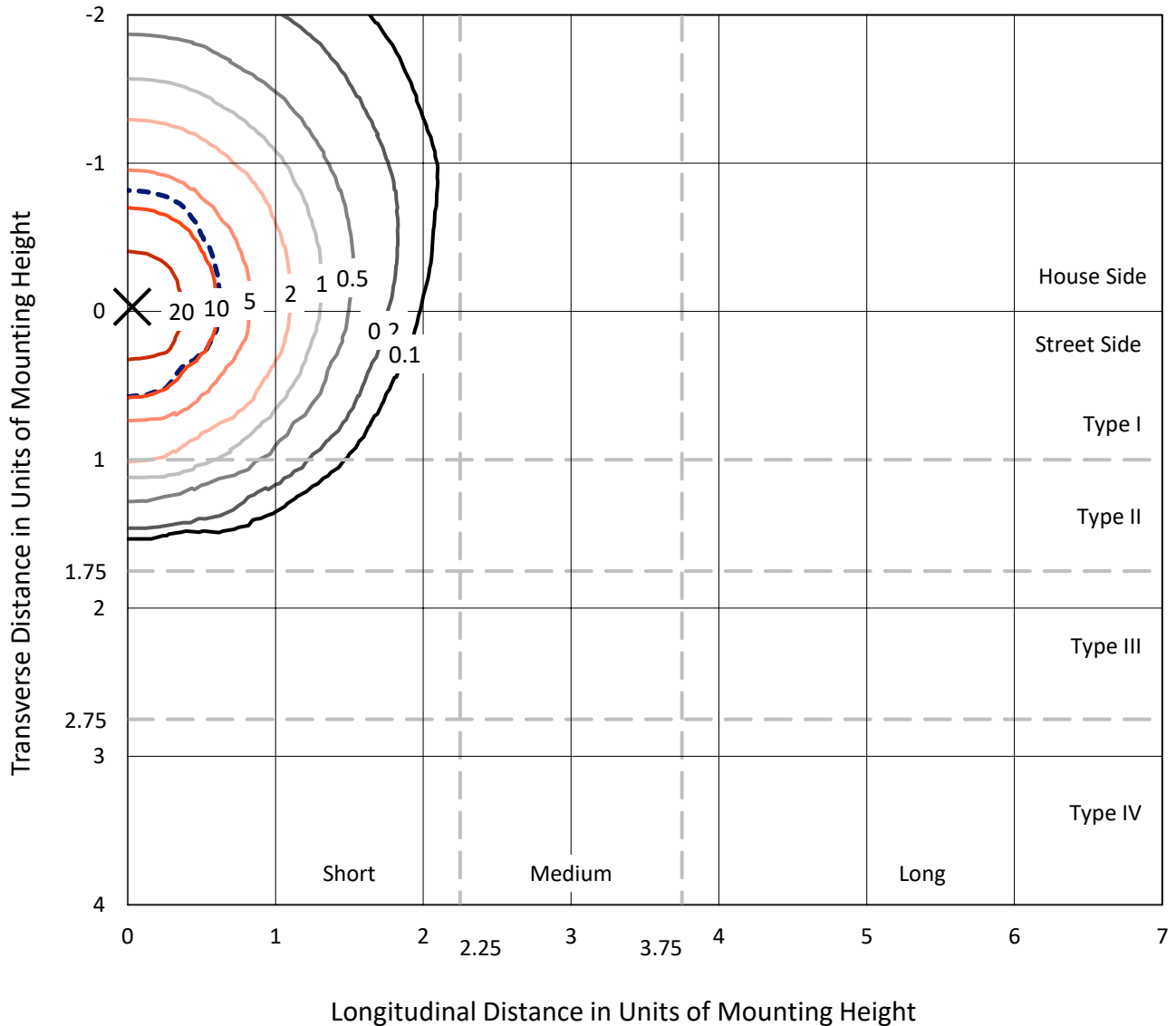
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638108
 CATALOG NUMBER: IFLD-S-SA3D-730-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

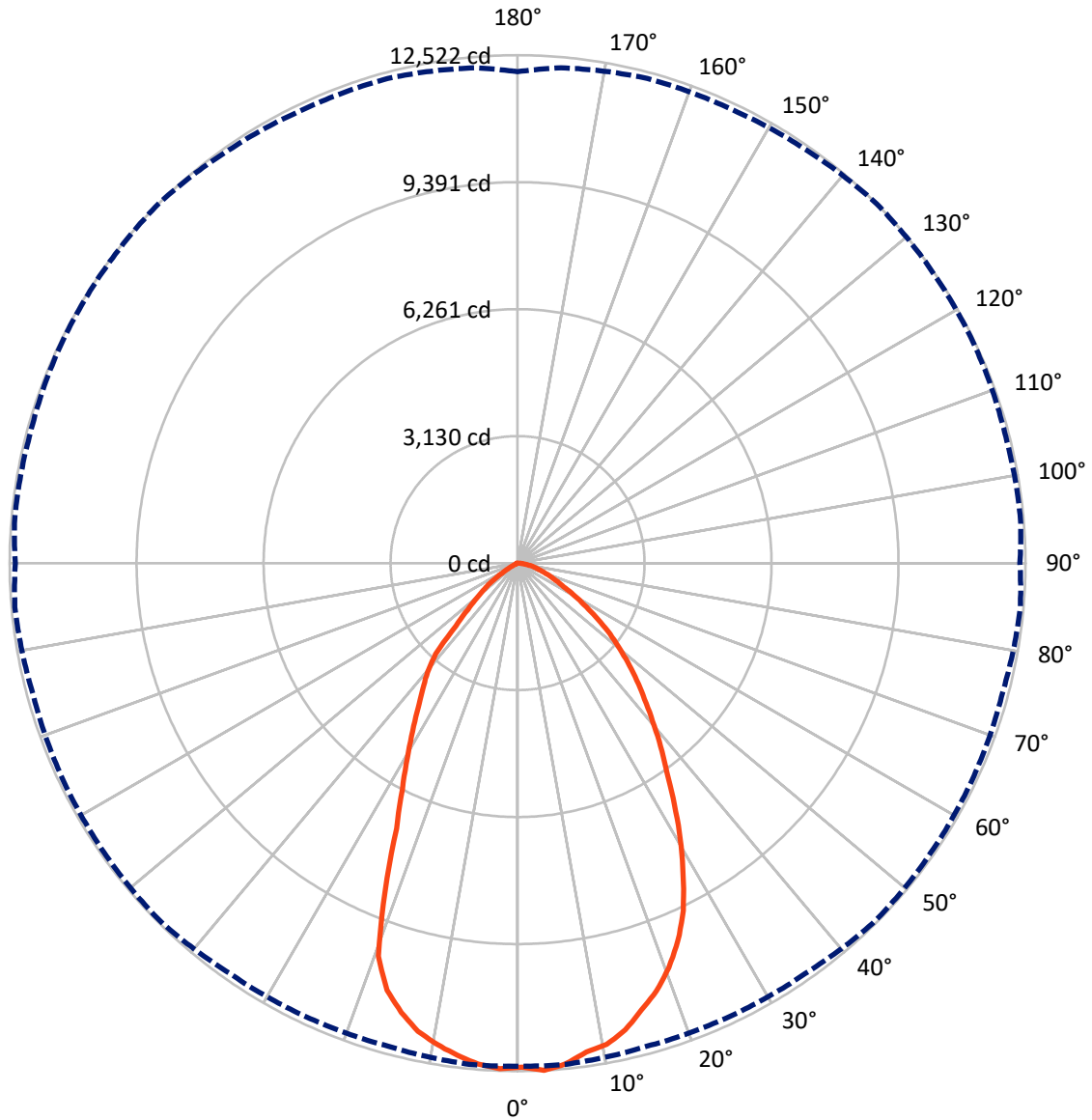
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.1 fc
 Type I - Short - N/A

REPORT NUMBER: P638108
CATALOG NUMBER: IFLD-S-SA3D-730-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638108

CATALOG NUMBER: IFLD-S-SA3D-730-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9668.3	0.0	9668.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6656.4	0.0	6656.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	16324.7	0.0	16324.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.1	7.1
10°-20°	3124.2	19.1
20°-30°	3810.2	23.3
30°-40°	3478.7	21.3
40°-50°	2514.0	15.4
50°-60°	1372.6	8.4
60°-70°	567.5	3.5
70°-80°	229.9	1.4
80°-90°	62.5	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°	16324.7	100.0
0°-180°	16324.7	100.0



REPORT NUMBER: P638108

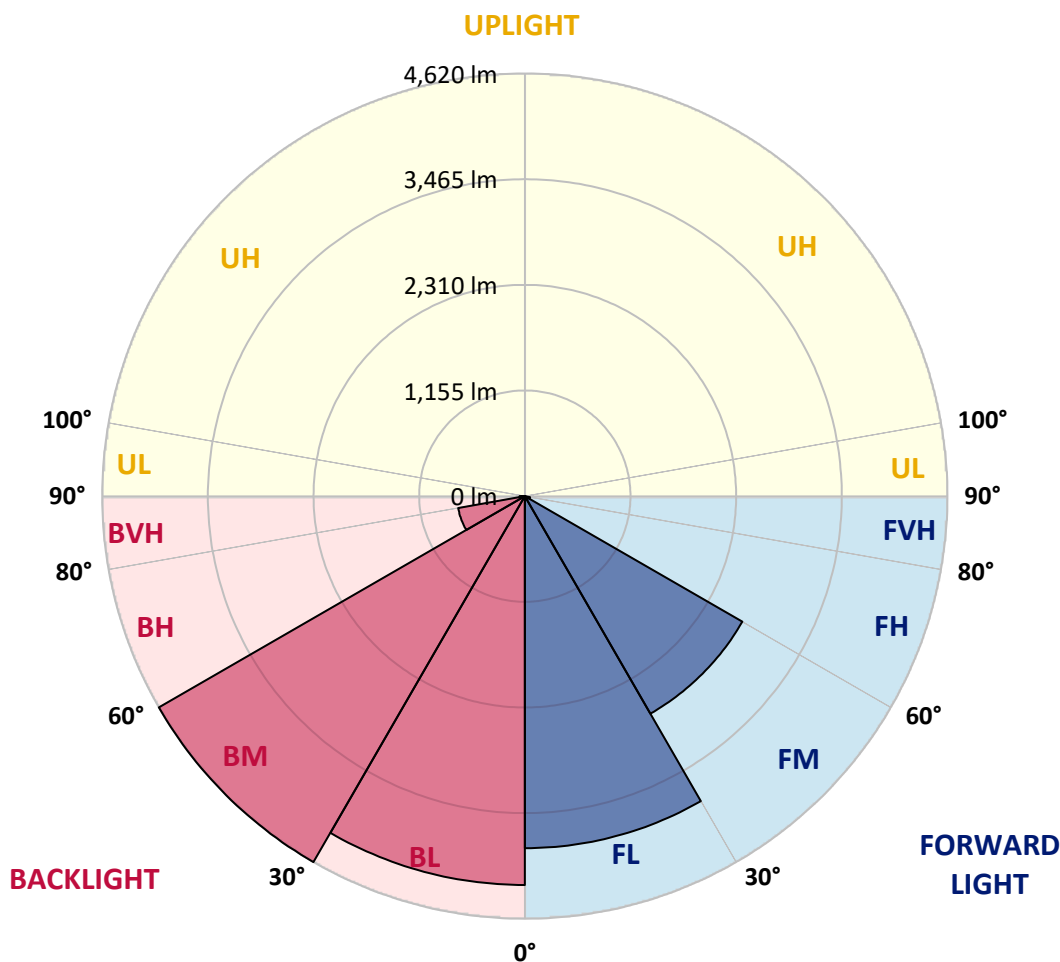
CATALOG NUMBER: IFLD-S-SA3D-730-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3848.3	23.6			
FM (30°-60°)	2745.5	16.8			
FH (60°-80°)	57.5	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	4251.2	26.0	B4/5000		
BM (30°-60°)	4619.7	28.3	B3/5000		
BH (60°-80°)	739.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	57.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





REPORT NUMBER: P638108
 CATALOG NUMBER: IFLD-S-SA3D-730-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0
2.5°	12400.0	12416.1	12328.8	12338.0	12354.1	12471.3	12441.4	12413.8	12374.8	12441.4
5°	12383.9	12393.1	12301.2	12269.0	12282.8	12388.5	12292.0	12292.0	12282.8	12271.3
7.5°	12259.8	12264.4	12193.1	12135.7	12172.5	12220.7	12149.5	12183.9	12133.4	12172.5
10°	12073.6	12043.7	11958.7	11942.6	11983.9	12029.9	11981.6	12013.8	11967.9	11997.7
12.5°	11800.0	11754.1	11685.1	11664.4	11735.7	11797.7	11758.7	11740.3	11680.5	11754.1
15°	10744.9	10710.4	10866.7	11140.3	11386.2	11439.1	11397.7	11416.1	11292.0	11312.7
17.5°	8843.7	8779.3	8947.2	9595.4	10519.6	11006.9	10970.2	10850.6	10666.7	10708.1
20°	8036.8	8018.4	8000.0	8154.0	8800.0	10278.2	10328.8	10025.3	9763.3	9705.8
22.5°	7581.6	7574.7	7556.3	7590.8	7760.9	8710.4	9289.7	9009.2	8834.5	8818.4
25°	7165.5	7154.0	7098.9	7142.6	7142.6	7197.7	7940.3	8110.4	7956.3	7938.0
27.5°	6742.6	6721.9	6712.7	6733.4	6627.6	6255.2	6443.7	7273.6	7193.1	7197.7
30°	6285.1	6278.2	6252.9	6296.6	5970.1	5508.1	5388.5	6515.0	6531.1	6526.5
32.5°	5604.6	5634.5	5749.4	5797.7	5259.8	4878.2	4678.2	5636.8	5965.5	5958.6
35°	4071.3	4071.3	4446.0	5142.5	4609.2	4321.9	4213.8	4779.3	5406.9	5429.9
37.5°	3347.1	3358.6	3432.2	3749.4	3977.0	3875.9	3843.7	4023.0	4689.7	4726.5
40°	3011.5	3011.5	3011.5	2880.5	2873.6	3492.0	3473.6	3416.1	4050.6	4131.0
42.5°	2705.8	2712.7	2717.3	2386.2	2202.3	3018.4	2977.0	2889.7	3478.2	3572.4
45°	2390.8	2402.3	2416.1	1995.4	1914.9	2172.4	2519.5	2423.0	2912.7	3034.5
47.5°	1459.8	1478.2	1790.8	1692.0	1701.2	1675.9	2055.2	2039.1	2388.5	2560.9
50°	986.2	993.1	1023.0	1073.6	1459.8	1317.2	1455.2	1687.4	1813.8	2075.9
52.5°	827.6	839.1	765.5	696.6	958.6	1029.9	1016.1	1252.9	1303.5	1627.6
55°	581.6	618.4	583.9	577.0	544.8	800.0	770.1	963.2	995.4	1236.8
57.5°	59.8	69.0	119.5	429.9	356.3	452.9	549.4	705.7	737.9	912.6
60°	4.6	4.6	11.5	59.8	259.8	271.3	379.3	434.5	496.6	636.8
62.5°	0.0	2.3	4.6	9.2	41.4	144.8	190.8	227.6	298.9	411.5
65°	0.0	0.0	2.3	6.9	9.2	55.2	73.6	119.5	163.2	255.2
67.5°	0.0	0.0	2.3	4.6	6.9	13.8	25.3	43.7	87.4	144.8
70°	0.0	0.0	2.3	4.6	6.9	11.5	18.4	27.6	39.1	78.2
72.5°	0.0	0.0	2.3	2.3	4.6	11.5	13.8	18.4	27.6	39.1
75°	0.0	0.0	2.3	2.3	6.9	13.8	11.5	13.8	18.4	25.3
77.5°	0.0	0.0	2.3	4.6	6.9	13.8	11.5	13.8	13.8	16.1
80°	0.0	0.0	2.3	4.6	9.2	16.1	13.8	13.8	11.5	11.5
82.5°	0.0	0.0	2.3	6.9	9.2	20.7	20.7	18.4	9.2	6.9
85°	0.0	0.0	4.6	9.2	13.8	23.0	23.0	18.4	6.9	4.6
87.5°	0.0	0.0	4.6	6.9	11.5	16.1	23.0	18.4	6.9	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638108

CATALOG NUMBER: IFLD-S-SA3D-730-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
12423.0	0°	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0	12423.0
12383.9	2.5°	12446.0	12432.2	12478.2	12496.6	12521.9	12425.3	12365.6	12367.9	12257.5
12243.7	5°	12317.3	12319.6	12379.4	12374.8	12400.0	12347.2	12324.2	12285.1	12188.5
12066.7	7.5°	12154.1	12133.4	12190.8	12234.5	12170.2	12206.9	12154.1	12172.5	12115.0
11910.4	10°	12027.6	11979.3	12032.2	12062.1	12064.4	12027.6	11977.1	11928.8	11908.1
11666.7	12.5°	11747.2	11685.1	11774.8	11816.1	11809.2	11738.0	11680.5	11692.0	11625.3
11239.1	15°	11361.0	11363.3	11427.6	11466.7	11429.9	11413.8	11418.4	11390.8	11333.4
10648.3	17.5°	10770.1	10804.6	10974.7	11069.0	11089.7	11057.5	11041.4	11009.2	10951.8
9705.8	20°	9786.2	9993.1	10296.6	10588.5	10646.0	10636.8	10579.3	10565.6	10533.4
8772.4	22.5°	8921.9	9075.9	9427.6	9882.8	10117.3	10140.3	10071.3	10050.6	10016.1
7938.0	25°	8027.6	8193.1	8510.4	9004.6	9489.7	9588.5	9577.0	9515.0	9478.2
7197.7	27.5°	7273.6	7439.1	7726.5	8172.4	8692.0	9009.2	9039.1	8940.3	8938.0
6538.0	30°	6593.1	6820.7	7039.1	7402.3	7905.8	8381.6	8432.2	8363.2	8370.1
5933.4	32.5°	6059.8	6248.3	6434.5	6678.2	7096.6	7650.6	7848.3	7783.9	7758.6
5429.9	35°	5515.0	5643.7	5834.5	6057.5	6342.5	6892.0	7234.5	7186.2	7160.9
4749.4	37.5°	4894.3	5115.0	5252.9	5503.5	5726.5	6163.2	6646.0	6639.1	6586.2
4170.1	40°	4257.5	4489.7	4698.9	4951.7	5124.2	5471.3	6006.9	6004.6	6011.5
3570.1	42.5°	3680.5	3894.3	4147.1	4423.0	4588.5	4841.4	5416.1	5448.3	5487.4
3075.9	45°	3158.6	3351.7	3586.2	3921.9	4121.9	4266.7	4777.0	4924.2	4921.9
2634.5	47.5°	2689.7	2871.3	3069.0	3395.4	3650.6	3781.6	4204.6	4413.8	4400.0
2160.9	50°	2257.5	2418.4	2625.3	2862.1	3204.6	3319.6	3634.5	3910.4	3889.7
1721.8	52.5°	1816.1	2039.1	2213.8	2429.9	2790.8	2903.5	3147.1	3416.1	3400.0
1292.0	55°	1416.1	1632.2	1843.7	2029.9	2333.3	2501.2	2675.9	2951.7	2947.1
1011.5	57.5°	1071.3	1308.1	1508.1	1685.1	1926.4	2133.3	2273.6	2524.1	2556.3
692.0	60°	793.1	974.7	1190.8	1388.5	1579.3	1793.1	1887.4	2133.3	2147.1
473.6	62.5°	540.2	740.2	951.7	1131.0	1273.6	1494.3	1579.3	1781.6	1806.9
303.4	65°	374.7	503.4	744.8	873.6	1048.3	1236.8	1321.8	1482.8	1533.3
174.7	67.5°	248.3	358.6	581.6	698.9	871.3	1000.0	1108.0	1239.1	1294.3
110.3	70°	135.6	264.4	416.1	551.7	701.2	825.3	931.0	1036.8	1085.1
50.6	72.5°	92.0	177.0	289.7	436.8	565.5	687.4	781.6	859.8	862.1
29.9	75°	46.0	119.5	220.7	337.9	441.4	560.9	646.0	692.0	636.8
18.4	77.5°	27.6	87.4	179.3	271.3	358.6	452.9	501.2	526.4	436.8
13.8	80°	16.1	62.1	140.2	216.1	248.3	333.3	379.3	386.2	292.0
9.2	82.5°	11.5	46.0	110.3	158.6	151.7	234.5	285.1	275.9	186.2
6.9	85°	6.9	32.2	69.0	98.9	92.0	154.0	165.5	170.1	108.0
4.6	87.5°	4.6	18.4	36.8	52.9	43.7	66.7	66.7	80.5	52.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12423.0
<i>12115.0</i>
12165.6
12018.4
11816.1
11567.9
11275.9
10926.5
10459.8
10006.9
9439.1
8933.4
8335.7
7760.9
7126.5
6629.9
6011.5
5466.7
4926.5
4404.6
3908.1
3434.5
2958.6
2542.5
2167.8
1811.5
1521.8
1287.4
1066.7
841.4
595.4
420.7
273.6
172.4
98.9
46.0
0.0

(END OF REPORT)