

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: P637808

Luminaire Tested: **IFLD-L-SA8C-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637808
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31467.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

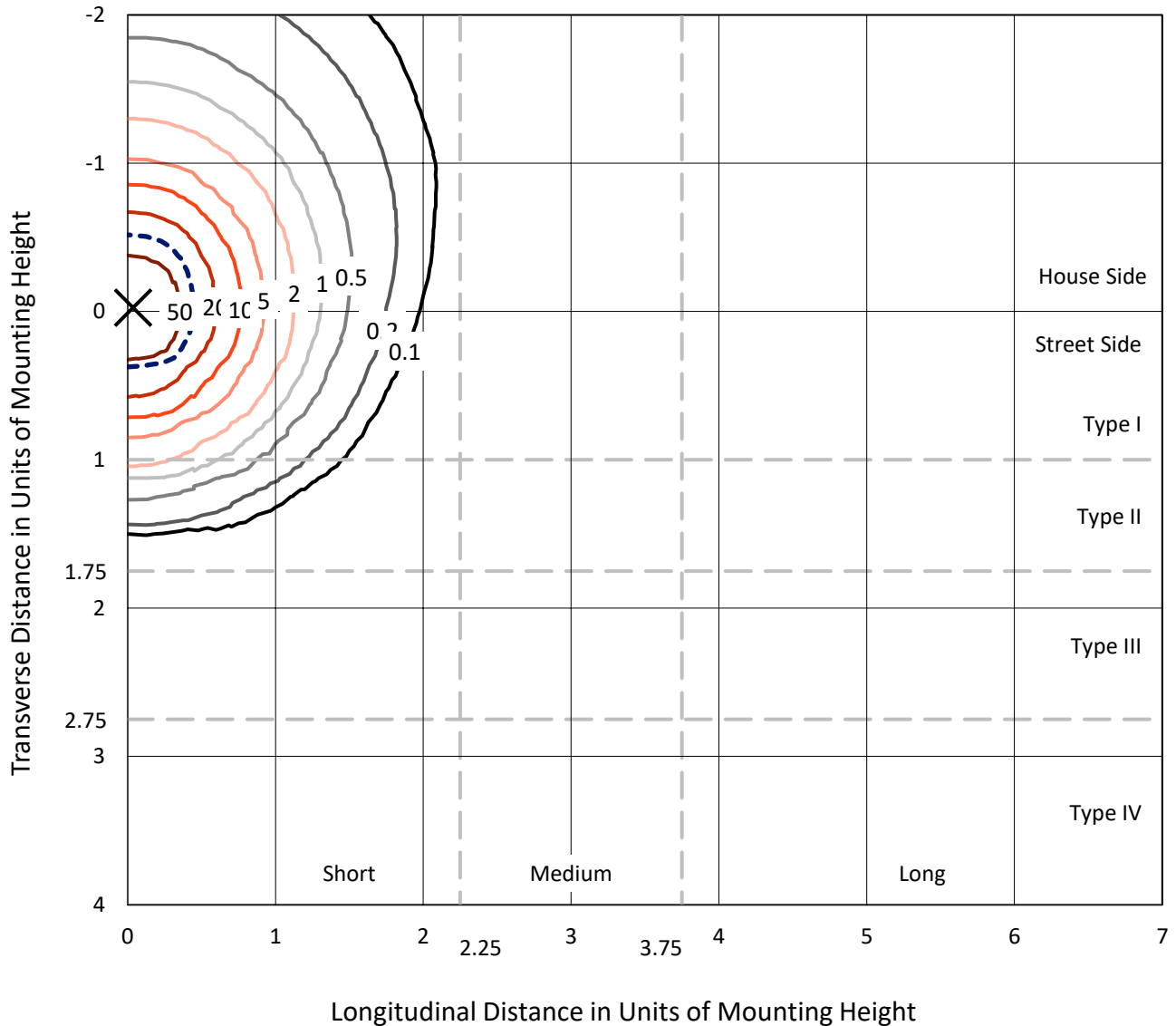
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

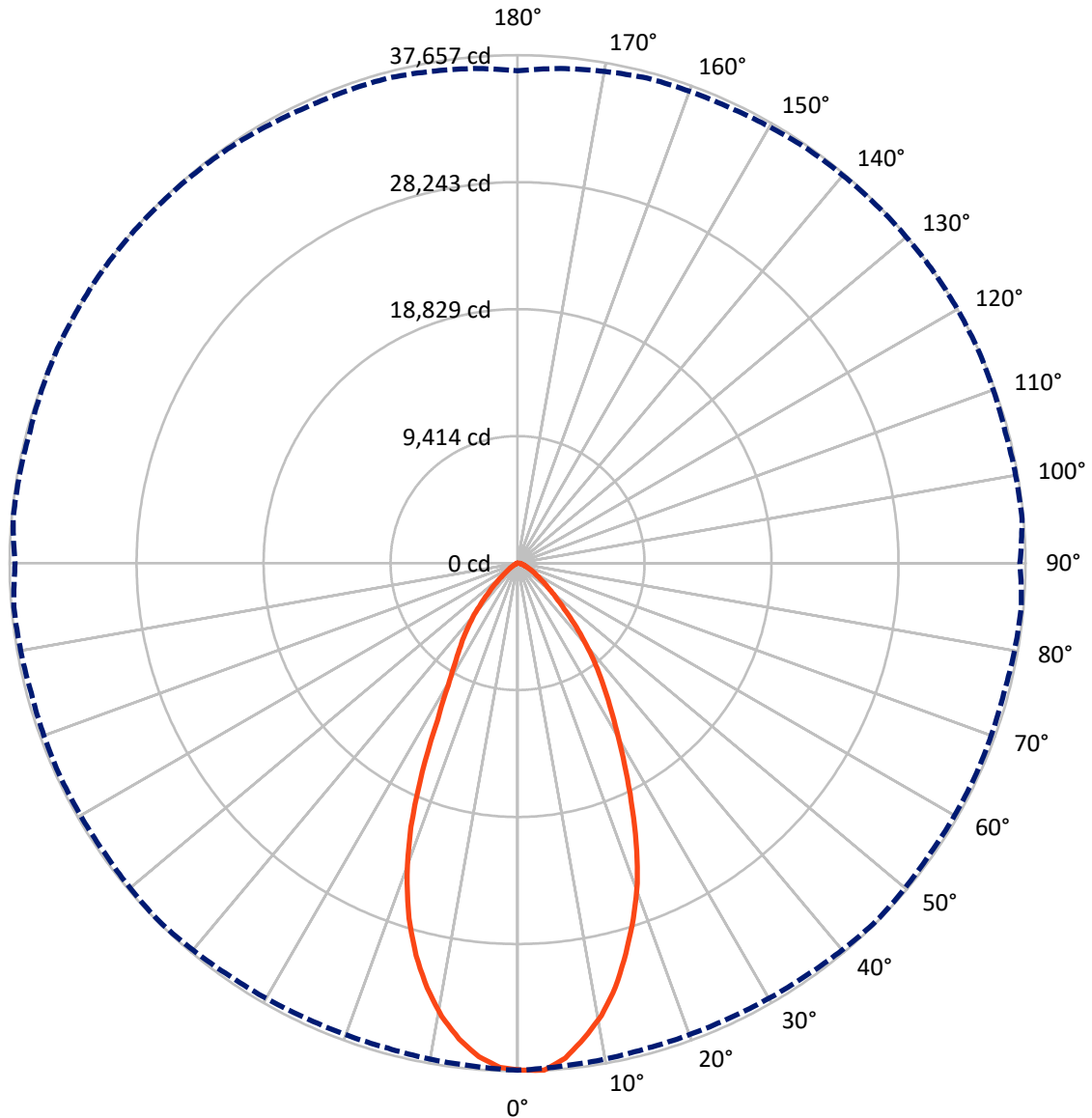
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 94 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17856.1	0.0	17856.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13611.8	0.0	13611.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	31467.9	0.0	31467.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3413.9	10.8
10°-20°	8138.0	25.9
20°-30°	8288.4	26.3
30°-40°	6180.6	19.6
40°-50°	3228.9	10.3
50°-60°	1358.1	4.3
60°-70°	554.7	1.8
70°-80°	233.4	0.7
80°-90°	71.9	0.2
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°	31467.9	100.0
0°-180°	31467.9	100.0



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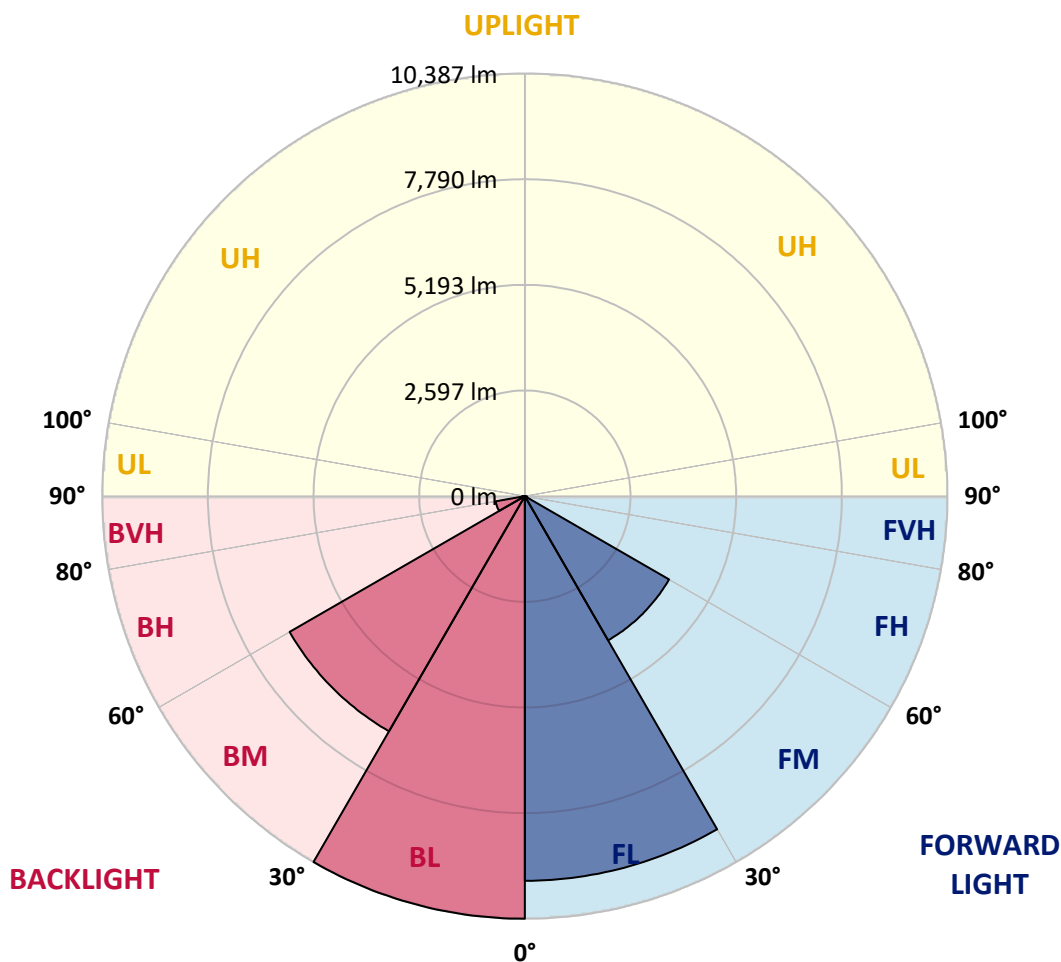
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9453.4	30.0			
FM (30°-60°)	4092.5	13.0			
FH (60°-80°)	59.2	0.2			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	10386.9	33.0	B5		
BM (30°-60°)	6675.1	21.2	B4/8500		
BH (60°-80°)	728.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	65.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5
2.5°	37600.6	37447.0	37228.7	37208.5	37321.7	37568.2	37410.6	37418.7	37321.7	37487.4
5°	37010.4	36864.9	36715.3	36517.3	36683.0	36788.1	36707.2	36618.3	36493.0	36654.7
7.5°	35894.8	35813.9	35591.6	35502.7	35603.7	35721.0	35547.1	35522.9	35349.1	35559.3
10°	34189.0	34156.6	33938.3	33885.8	33974.7	34152.6	34075.8	34059.6	33950.5	33930.3
12.5°	32418.5	32293.2	32022.3	32006.2	32139.6	32406.3	32200.2	32002.1	32062.8	32115.3
15°	27858.9	27725.5	28396.5	29451.5	30005.3	29985.1	30045.7	29807.2	29734.4	29758.7
17.5°	22147.2	21920.9	22163.4	23796.5	26427.9	27955.9	27535.5	27022.1	26747.3	26565.4
20°	19115.6	19127.7	19083.2	19503.6	21144.8	24629.1	24528.1	23537.8	23178.0	23028.4
22.5°	17272.3	17203.6	17106.6	17240.0	17680.6	19726.0	21096.3	20186.8	20061.5	19895.7
25°	15465.5	15465.5	15348.2	15481.6	15606.9	15635.2	17009.6	17381.5	17138.9	17138.9
27.5°	13901.1	13820.3	13767.7	13828.4	13662.6	12866.3	13040.1	14944.0	14778.3	14677.2
30°	12348.9	12324.7	12235.7	12316.6	11702.2	10804.8	10441.0	12611.7	12785.5	12749.1
32.5°	10194.4	10291.4	10687.6	10812.9	9761.9	9038.4	8690.7	10469.3	11164.6	11136.3
35°	6928.3	7009.2	7461.9	8957.5	8092.5	7575.1	7474.0	8326.9	9470.9	9580.0
37.5°	5517.6	5505.5	5634.8	5901.6	6503.9	6378.6	6350.3	6572.6	7724.7	7773.2
40°	4547.5	4531.3	4527.3	4309.0	4159.4	5303.4	5226.6	5093.2	6091.6	6188.6
42.5°	3666.3	3682.4	3694.6	3217.6	2999.3	4090.7	4046.2	3908.8	4777.9	4891.1
45°	2878.0	2874.0	2898.3	2397.0	2336.4	2615.3	3023.6	2914.4	3605.6	3726.9
47.5°	1491.6	1544.1	1871.5	1855.4	1883.7	1855.4	2287.9	2259.6	2712.3	2906.3
50°	1002.5	1018.6	1046.9	1051.0	1483.5	1366.3	1552.2	1758.4	1899.8	2199.0
52.5°	776.1	788.2	715.5	671.0	909.5	1010.6	1018.6	1216.7	1325.8	1629.0
55°	432.5	485.1	521.4	525.5	501.2	747.8	743.8	901.4	986.3	1188.4
57.5°	56.6	68.7	105.1	339.5	335.5	416.3	521.4	654.8	703.3	869.1
60°	4.0	8.1	12.1	52.5	222.3	242.5	355.7	408.3	489.1	610.4
62.5°	0.0	0.0	4.0	12.1	44.5	141.5	185.9	214.2	287.0	400.2
65°	0.0	0.0	4.0	8.1	16.2	52.5	72.8	117.2	169.8	246.6
67.5°	0.0	0.0	4.0	8.1	12.1	20.2	32.3	52.5	88.9	149.6
70°	0.0	0.0	4.0	8.1	12.1	16.2	24.3	32.3	48.5	80.8
72.5°	0.0	0.0	4.0	4.0	8.1	20.2	20.2	24.3	32.3	44.5
75°	0.0	0.0	4.0	8.1	12.1	20.2	20.2	20.2	24.3	28.3
77.5°	0.0	0.0	4.0	8.1	12.1	20.2	16.2	20.2	20.2	20.2
80°	0.0	0.0	4.0	8.1	12.1	20.2	24.3	20.2	16.2	16.2
82.5°	0.0	0.0	4.0	12.1	12.1	28.3	28.3	28.3	12.1	12.1
85°	0.0	0.0	8.1	12.1	20.2	32.3	32.3	24.3	12.1	8.1
87.5°	0.0	0.0	4.0	8.1	8.1	16.2	24.3	20.2	8.1	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
37596.5	0°	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5	37596.5
37244.9	2.5°	37544.0	37442.9	37632.9	37657.2	37576.3	37475.3	37240.8	37220.6	36812.3
36420.3	5°	36832.6	36666.8	36788.1	36868.9	36840.6	36731.5	36634.5	36545.6	36177.7
35082.3	7.5°	35506.7	35446.1	35502.7	35563.3	35680.5	35563.3	35522.9	35429.9	35066.1
33764.5	10°	34035.4	33922.2	34136.4	34108.1	34075.8	34043.4	33873.7	33889.8	33461.4
31969.8	12.5°	32228.5	32038.5	32244.7	32268.9	32244.7	32131.5	31941.5	32022.3	31630.2
29544.5	15°	29799.1	29778.9	29928.5	30025.5	30094.2	29972.9	29908.3	29948.7	29714.2
26423.9	17.5°	26816.0	27078.7	27567.8	27733.6	27737.6	27862.9	27826.5	27778.0	27604.2
22967.8	20°	23307.3	23812.6	24564.5	25336.5	25558.9	25453.8	25405.2	25494.2	25235.5
19721.9	22.5°	20069.5	20502.1	21375.2	22502.9	23153.7	23218.4	23206.3	23129.5	23028.4
17122.8	25°	17320.8	17704.9	18541.6	19572.3	20821.4	21007.3	21015.4	20991.2	20902.2
14766.2	27.5°	15000.6	15465.5	15926.3	16847.9	18177.8	18945.8	18848.8	18820.5	18788.2
12777.4	30°	12898.7	13484.8	13917.3	14491.3	15683.7	16722.6	16823.7	16775.1	16698.3
11132.2	32.5°	11233.3	11580.9	12130.7	12518.7	13375.7	14551.9	14940.0	14903.6	14834.9
9648.7	35°	9786.2	9923.6	10356.1	10788.6	11358.6	12498.5	13072.5	12991.6	12979.5
7862.1	37.5°	8060.2	8521.0	8759.5	9196.0	9596.2	10481.4	11273.7	11237.3	11241.4
6322.0	40°	6507.9	6774.7	7247.7	7615.5	7983.4	8630.1	9511.3	9535.6	9527.5
4895.1	42.5°	4996.2	5254.9	5752.1	6152.2	6479.7	6879.8	7720.6	7748.9	7785.3
3811.8	45°	3900.7	4066.5	4430.3	4846.6	5194.2	5436.8	6075.4	6257.3	6261.4
2954.9	47.5°	3027.6	3217.6	3476.3	3876.5	4216.0	4389.8	4854.7	5101.3	5089.1
2267.7	50°	2376.8	2550.6	2760.8	3076.1	3444.0	3581.4	3925.0	4167.5	4155.4
1709.9	52.5°	1819.0	2041.3	2227.3	2469.8	2829.5	2946.8	3193.3	3472.3	3431.8
1253.1	55°	1378.4	1604.8	1778.6	1980.7	2308.1	2457.7	2627.4	2849.8	2857.8
970.1	57.5°	1038.8	1273.3	1430.9	1637.1	1883.7	2049.4	2178.7	2417.2	2413.2
662.9	60°	743.8	945.9	1135.9	1350.1	1540.1	1730.1	1819.0	2045.4	2053.4
468.9	62.5°	537.6	727.6	909.5	1095.4	1265.2	1451.2	1532.0	1709.9	1734.1
307.2	65°	375.9	509.3	719.5	861.0	1051.0	1188.4	1293.5	1447.1	1475.4
181.9	67.5°	242.5	367.8	570.0	695.3	869.1	986.3	1095.4	1216.7	1253.1
117.2	70°	145.5	278.9	424.4	557.8	715.5	820.6	925.7	1030.8	1051.0
56.6	72.5°	93.0	194.0	307.2	452.7	574.0	687.2	780.1	856.9	796.3
36.4	75°	52.5	133.4	242.5	355.7	464.9	574.0	650.8	691.2	553.8
24.3	77.5°	32.3	97.0	198.1	287.0	359.8	460.8	509.3	533.6	396.1
16.2	80°	20.2	72.8	165.7	234.4	234.4	339.5	396.1	416.3	287.0
12.1	82.5°	16.2	52.5	129.4	177.9	157.6	254.7	311.2	315.3	202.1
8.1	85°	12.1	40.4	80.8	117.2	109.1	177.9	181.9	202.1	133.4
8.1	87.5°	8.1	24.3	48.5	68.7	60.6	84.9	97.0	109.1	72.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
37596.5
36493.0
35882.6
34989.3
33315.8
31517.1
29431.3
27345.5
25049.5
22834.4
20603.1
18598.2
16601.3
14653.0
12846.1
11112.0
9386.0
7664.0
6156.3
5044.7
4155.4
3435.9
2857.8
2405.1
2033.2
1726.0
1467.3
1249.0
1034.8
739.7
525.5
371.9
266.8
185.9
121.3
64.7
0.0

(END OF REPORT)