

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: P637804

Luminaire Tested: **IFLD-L-SA7D-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637804
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30297.2 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

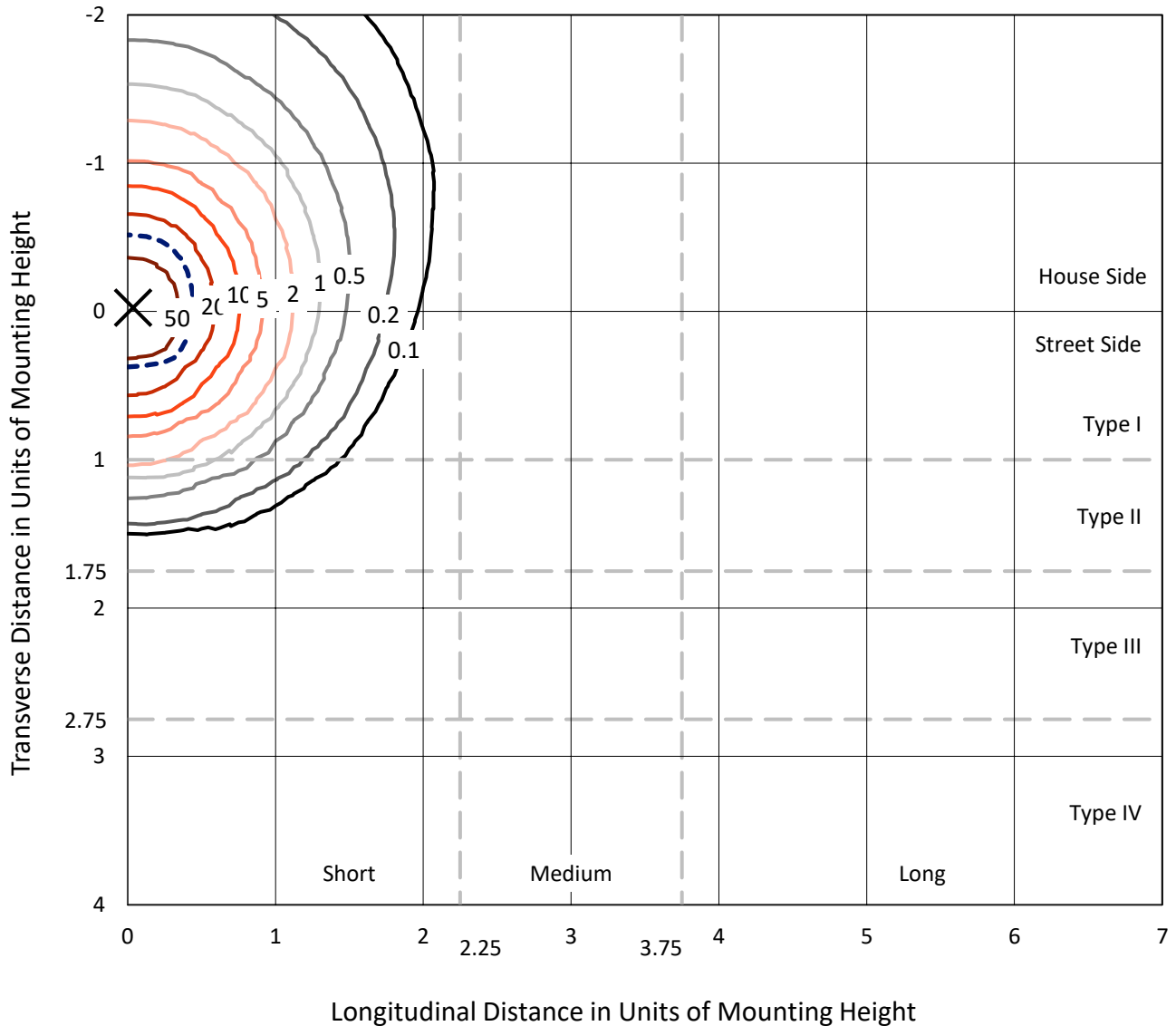
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

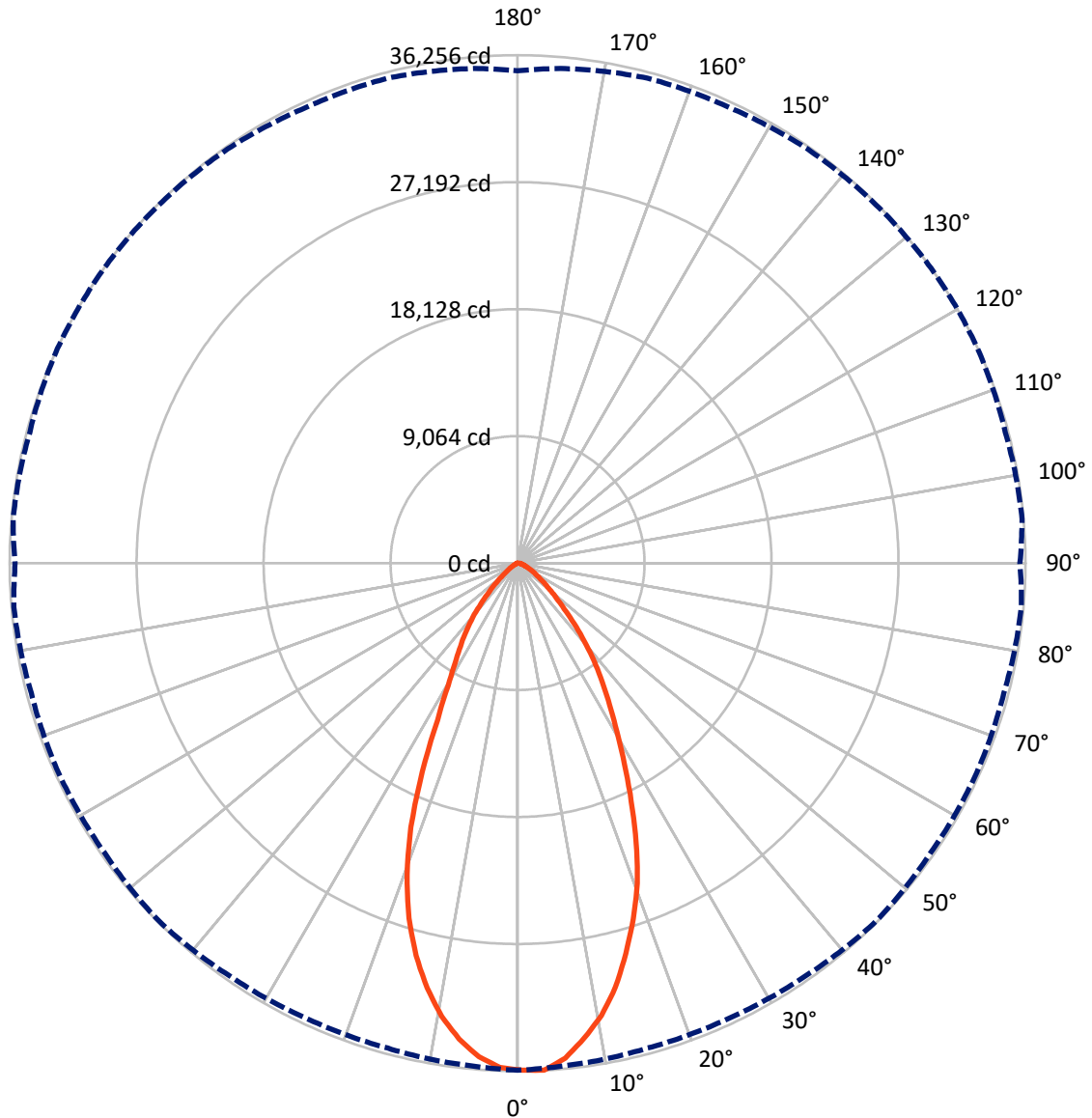
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 90.5 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	17191.8	0.0	17191.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13105.4	0.0	13105.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	30297.2	0.0	30297.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3286.9	10.8
10°-20°	7835.2	25.9
20°-30°	7980.0	26.3
30°-40°	5950.7	19.6
40°-50°	3108.8	10.3
50°-60°	1307.6	4.3
60°-70°	534.0	1.8
70°-80°	224.7	0.7
80°-90°	69.3	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°	30297.2	100.0
0°-180°	30297.2	100.0



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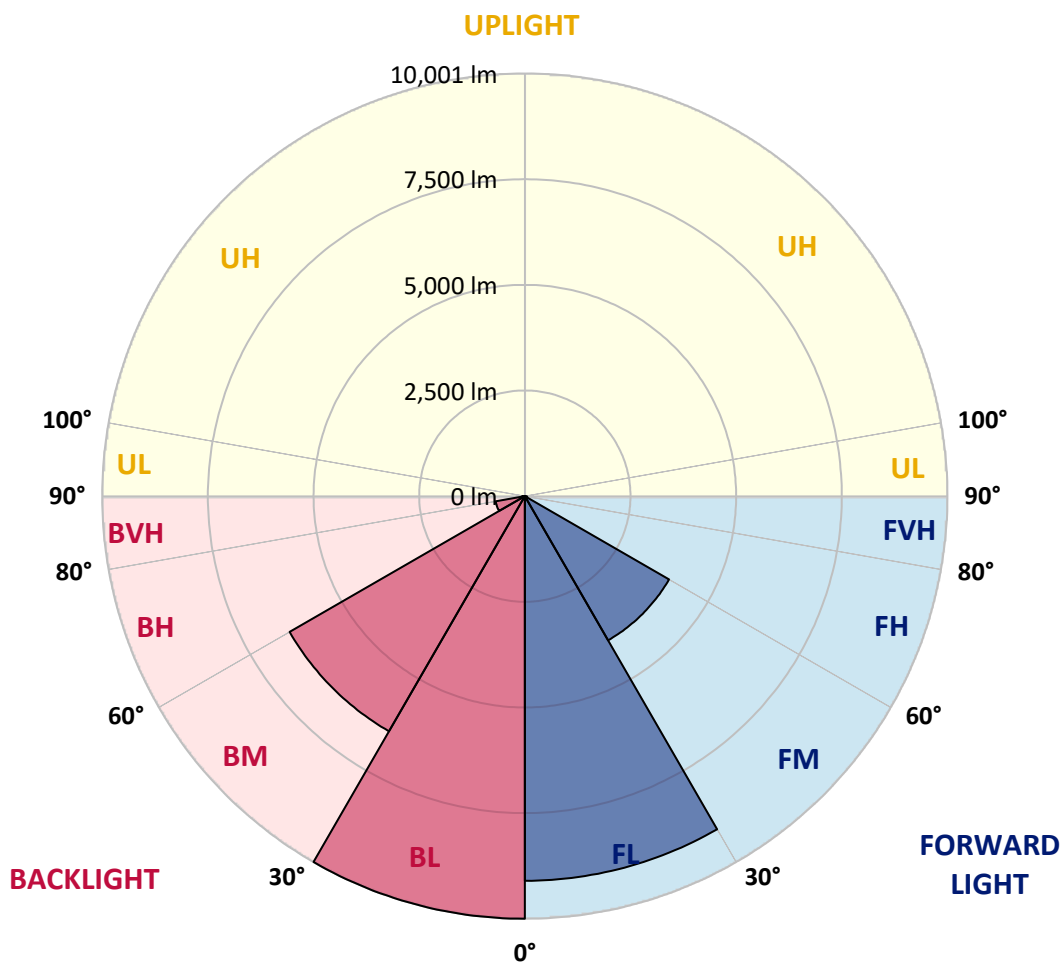
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9101.6	30.0			
FM (30°-60°)	3940.3	13.0			
FH (60°-80°)	57.0	0.2			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	10000.5	33.0	B5		
BM (30°-60°)	6426.8	21.2	B4/8500		
BH (60°-80°)	701.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	62.8	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°	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8
2.5°	36201.7	36053.8	35843.6	35824.2	35933.1	36170.5	36018.8	36026.6	35933.1	36092.7
5°	35633.5	35493.4	35349.4	35158.7	35318.2	35419.4	35341.6	35256.0	35135.3	35291.0
7.5°	34559.3	34481.5	34267.5	34181.8	34279.1	34392.0	34224.6	34201.3	34033.9	34236.3
10°	32917.0	32885.9	32675.7	32625.1	32710.7	32882.0	32808.0	32792.5	32687.4	32667.9
12.5°	31212.4	31091.7	30831.0	30815.4	30943.8	31200.7	31002.2	30811.5	30869.9	30920.5
15°	26822.4	26694.0	27340.0	28355.8	28889.0	28869.5	28927.9	28698.3	28628.2	28651.6
17.5°	21323.3	21105.3	21338.8	22911.1	25444.7	26915.8	26511.1	26016.8	25752.2	25577.0
20°	18404.4	18416.1	18373.3	18778.0	20358.1	23712.8	23615.5	22662.1	22315.7	22171.7
22.5°	16629.7	16563.6	16470.2	16598.6	17022.8	18992.1	20311.4	19435.7	19315.1	19155.5
25°	14890.1	14890.1	14777.2	14905.7	15026.3	15053.5	16376.8	16734.8	16501.3	16501.3
27.5°	13384.0	13306.1	13255.5	13313.9	13154.3	12387.7	12555.0	14388.0	14228.5	14131.2
30°	11889.5	11866.2	11780.5	11858.4	11266.8	10402.8	10052.6	12142.5	12309.8	12274.8
32.5°	9815.2	9908.6	10290.0	10410.6	9398.7	8702.1	8367.4	10079.8	10749.2	10722.0
35°	6670.6	6748.4	7184.3	8624.3	7791.4	7293.3	7196.0	8017.1	9118.5	9223.6
37.5°	5312.3	5300.7	5425.2	5682.1	6261.9	6141.3	6114.0	6328.1	7437.3	7484.0
40°	4378.3	4362.7	4358.8	4148.7	4004.7	5106.1	5032.1	4903.7	5865.0	5958.4
42.5°	3529.9	3545.4	3557.1	3097.9	2887.7	3938.5	3895.7	3763.4	4600.1	4709.1
45°	2771.0	2767.1	2790.4	2307.8	2249.5	2518.0	2911.1	2806.0	3471.5	3588.3
47.5°	1436.1	1486.7	1801.9	1786.3	1813.6	1786.3	2202.8	2175.5	2611.4	2798.2
50°	965.2	980.7	1008.0	1011.9	1428.3	1315.4	1494.5	1692.9	1829.2	2117.1
52.5°	747.2	758.9	688.9	646.0	875.7	973.0	980.7	1171.4	1276.5	1568.4
55°	416.4	467.0	502.0	505.9	482.6	720.0	716.1	867.9	949.6	1144.2
57.5°	54.5	66.2	101.2	326.9	323.0	400.9	502.0	630.5	677.2	836.7
60°	3.9	7.8	11.7	50.6	214.0	233.5	342.5	393.1	470.9	587.7
62.5°	0.0	0.0	3.9	11.7	42.8	136.2	179.0	206.3	276.3	385.3
65°	0.0	0.0	3.9	7.8	15.6	50.6	70.1	112.9	163.5	237.4
67.5°	0.0	0.0	3.9	7.8	11.7	19.5	31.1	50.6	85.6	144.0
70°	0.0	0.0	3.9	7.8	11.7	15.6	23.4	31.1	46.7	77.8
72.5°	0.0	0.0	3.9	3.9	7.8	19.5	19.5	23.4	31.1	42.8
75°	0.0	0.0	3.9	7.8	11.7	19.5	19.5	19.5	23.4	27.2
77.5°	0.0	0.0	3.9	7.8	11.7	19.5	15.6	19.5	19.5	19.5
80°	0.0	0.0	3.9	7.8	11.7	19.5	23.4	19.5	15.6	15.6
82.5°	0.0	0.0	3.9	11.7	11.7	27.2	27.2	27.2	11.7	11.7
85°	0.0	0.0	7.8	11.7	19.5	31.1	31.1	23.4	11.7	7.8
87.5°	0.0	0.0	3.9	7.8	7.8	15.6	23.4	19.5	7.8	3.9
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°
36197.8	0°	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8	36197.8
35859.2	2.5°	36147.2	36049.9	36232.8	36256.2	36178.3	36081.0	35855.3	35835.9	35442.8
35065.3	5°	35462.2	35302.7	35419.4	35497.3	35470.0	35364.9	35271.5	35185.9	34831.8
33777.1	7.5°	34185.7	34127.3	34181.8	34240.2	34353.1	34240.2	34201.3	34111.8	33761.5
32508.3	10°	32769.1	32660.1	32866.4	32839.2	32808.0	32776.9	32613.4	32629.0	32216.5
30780.4	12.5°	31029.5	30846.5	31045.0	31068.4	31045.0	30936.1	30753.1	30831.0	30453.5
28445.3	15°	28690.5	28671.0	28815.0	28908.4	28974.6	28857.8	28795.6	28834.5	28608.7
25440.8	17.5°	25818.3	26071.3	26542.2	26701.8	26705.6	26826.3	26791.3	26744.6	26577.2
22113.3	20°	22440.2	22926.7	23650.6	24393.9	24608.0	24506.8	24460.1	24545.7	24296.6
18988.2	22.5°	19322.9	19739.3	20579.9	21665.7	22292.3	22354.6	22342.9	22269.0	22171.7
16485.7	25°	16676.4	17046.2	17851.8	18844.2	20046.8	20225.8	20233.6	20210.2	20124.6
14216.8	27.5°	14442.5	14890.1	15333.8	16221.1	17501.5	18240.9	18147.5	18120.3	18089.2
12302.0	30°	12418.8	12983.1	13399.5	13952.2	15100.3	16100.4	16197.7	16151.0	16077.1
10718.1	32.5°	10815.4	11150.1	11679.3	12053.0	12878.0	14010.5	14384.2	14349.1	14283.0
9289.8	35°	9422.1	9554.4	9970.8	10387.3	10936.0	12033.5	12586.1	12508.3	12496.6
7569.6	37.5°	7760.3	8204.0	8433.6	8853.9	9239.2	10091.5	10854.3	10819.3	10823.1
6086.8	40°	6265.8	6522.7	6978.0	7332.2	7686.3	8309.0	9157.4	9180.8	9173.0
4713.0	42.5°	4810.3	5059.4	5538.1	5923.3	6238.6	6623.9	7433.4	7460.6	7495.6
3670.0	45°	3755.6	3915.2	4265.4	4666.3	5001.0	5234.5	5849.4	6024.5	6028.4
2844.9	47.5°	2915.0	3097.9	3347.0	3732.3	4059.2	4226.5	4674.1	4911.5	4899.8
2183.3	50°	2288.4	2455.7	2658.1	2961.7	3315.8	3448.2	3779.0	4012.5	4000.8
1646.2	52.5°	1751.3	1965.4	2144.4	2377.9	2724.3	2837.1	3074.5	3343.1	3304.2
1206.5	55°	1327.1	1545.1	1712.4	1907.0	2222.2	2366.2	2529.7	2743.7	2751.5
934.0	57.5°	1000.2	1225.9	1377.7	1576.2	1813.6	1973.2	2097.7	2327.3	2323.4
638.3	60°	716.1	910.7	1093.6	1299.9	1482.8	1665.7	1751.3	1969.3	1977.0
451.5	62.5°	517.6	700.5	875.7	1054.7	1218.1	1397.2	1475.0	1646.2	1669.6
295.8	65°	361.9	490.4	692.7	829.0	1011.9	1144.2	1245.4	1393.3	1420.5
175.1	67.5°	233.5	354.2	548.7	669.4	836.7	949.6	1054.7	1171.4	1206.5
112.9	70°	140.1	268.5	408.6	537.1	688.9	790.0	891.2	992.4	1011.9
54.5	72.5°	89.5	186.8	295.8	435.9	552.6	661.6	751.1	825.1	766.7
35.0	75°	50.6	128.4	233.5	342.5	447.6	552.6	626.6	665.5	533.2
23.4	77.5°	31.1	93.4	190.7	276.3	346.4	443.7	490.4	513.7	381.4
15.6	80°	19.5	70.1	159.6	225.7	225.7	326.9	381.4	400.9	276.3
11.7	82.5°	15.6	50.6	124.5	171.2	151.8	245.2	299.7	303.6	194.6
7.8	85°	11.7	38.9	77.8	112.9	105.1	171.2	175.1	194.6	128.4
7.8	87.5°	7.8	23.4	46.7	66.2	58.4	81.7	93.4	105.1	70.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
36197.8
35135.3
34547.7
33687.6
32076.4
30344.5
28336.3
26328.1
24117.6
21984.9
19836.6
17906.3
15983.7
14107.8
12368.2
10698.6
9036.8
7378.9
5927.2
4857.0
4000.8
3308.0
2751.5
2315.6
1957.6
1661.8
1412.7
1202.6
996.3
712.2
505.9
358.0
256.9
179.0
116.8
62.3
0.0

(END OF REPORT)