

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: P637919

Luminaire Tested: **IFLD-L-SA7C-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637919
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37380.3 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

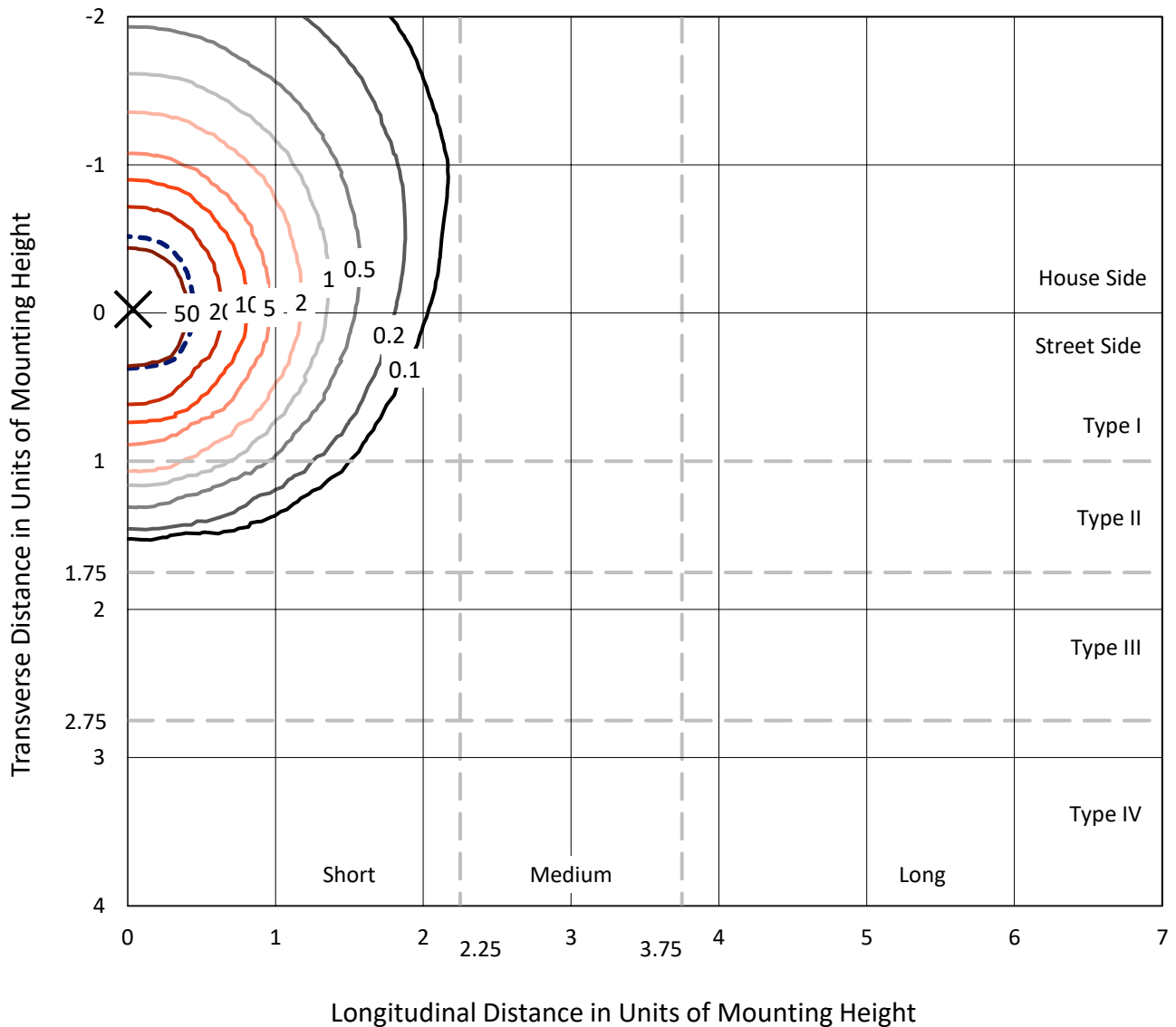
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

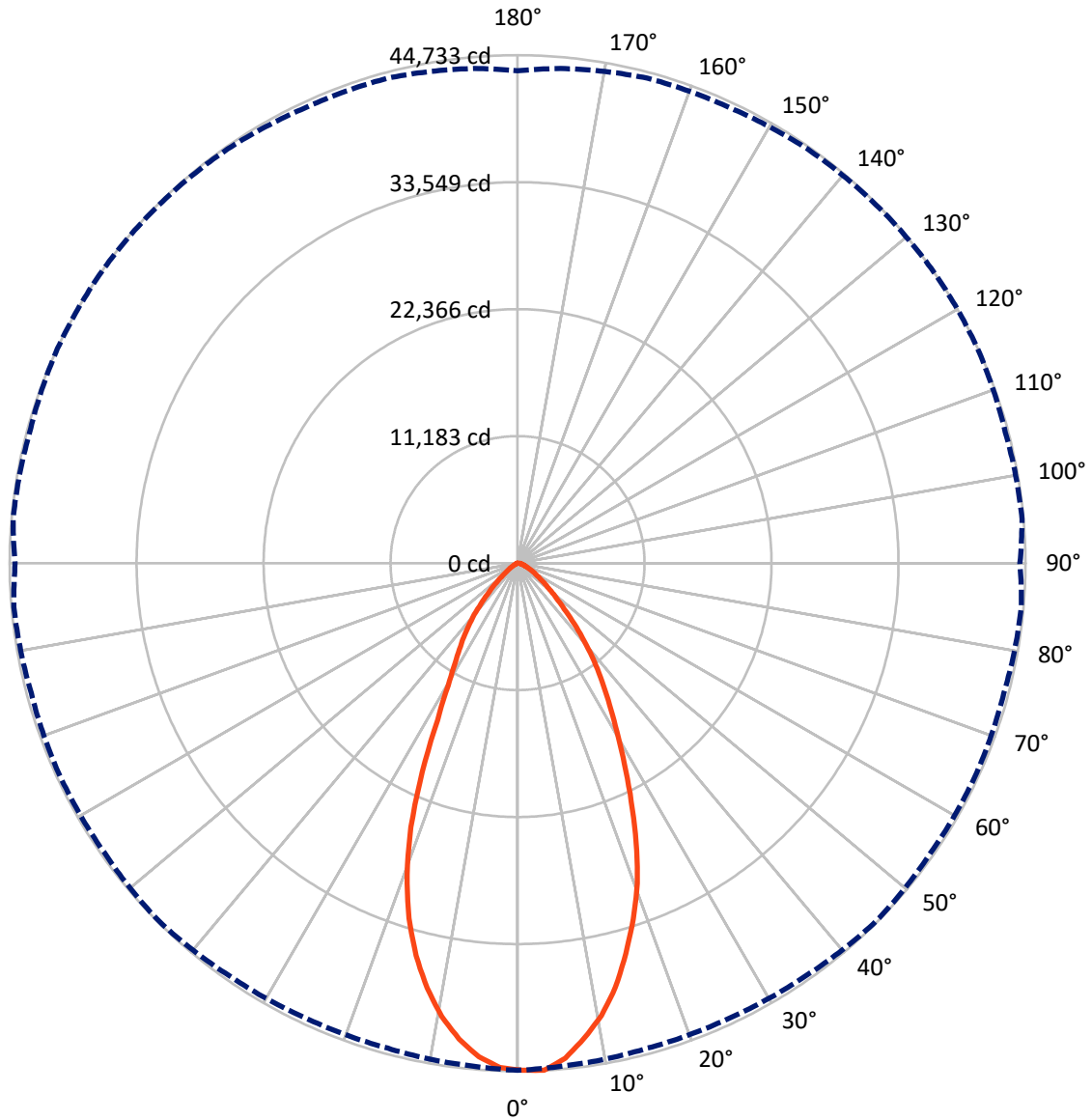
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 111.7 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	21211.1	0.0	21211.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	16169.2	0.0	16169.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	37380.3	0.0	37380.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4055.3	10.8
10°-20°	9667.0	25.9
20°-30°	9845.7	26.3
30°-40°	7341.9	19.6
40°-50°	3835.6	10.3
50°-60°	1613.3	4.3
60°-70°	658.9	1.8
70°-80°	277.3	0.7
80°-90°	85.4	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°	37380.3	100.0
0°-180°	37380.3	100.0



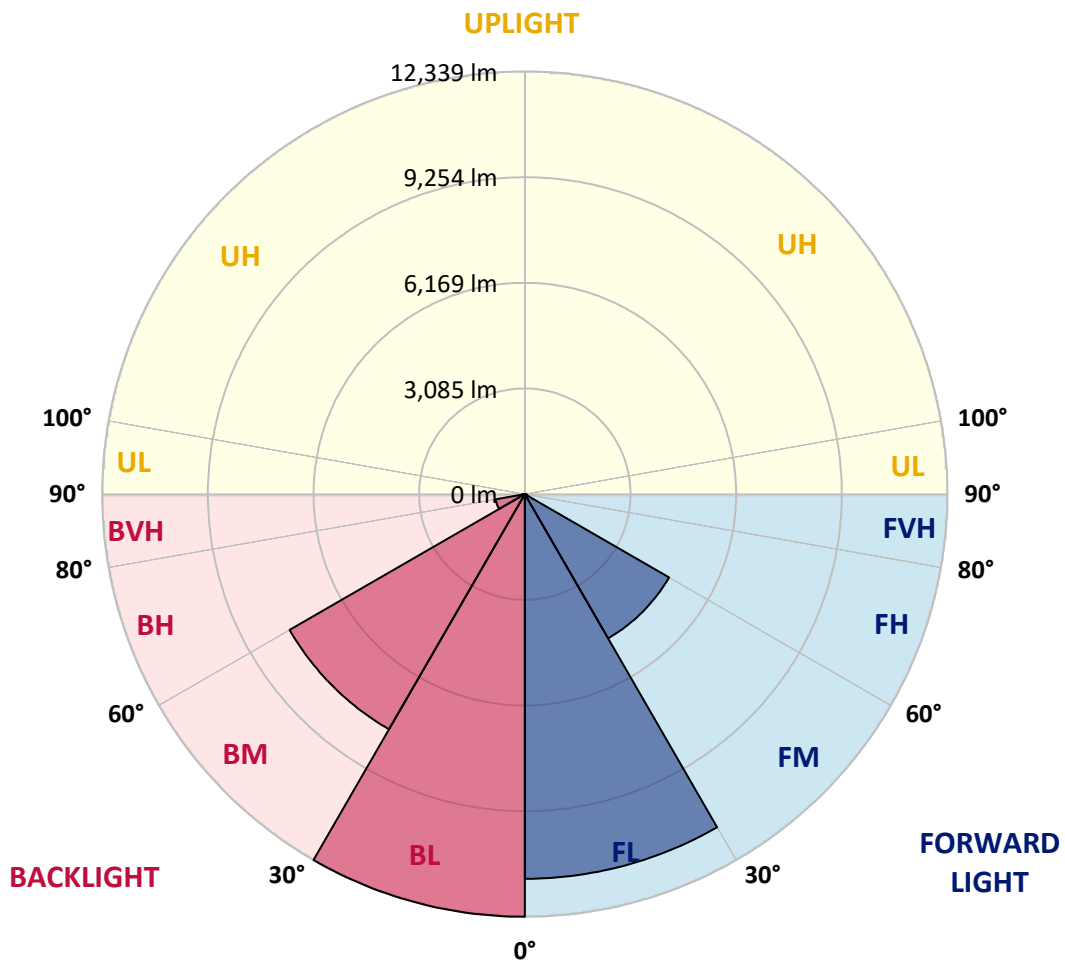
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11229.5	30.0			
FM (30°-60°)	4861.4	13.0			
FH (60°-80°)	70.3	0.2			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	12338.5	33.0	B5		
BM (30°-60°)	7929.3	21.2	B4/8500		
BH (60°-80°)	865.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	77.5	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°	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4
2.5°	44665.2	44482.8	44223.5	44199.5	44333.9	44626.8	44439.6	44449.2	44333.9	44530.8
5°	43964.2	43791.3	43613.7	43378.4	43575.3	43700.1	43604.1	43498.4	43349.6	43541.6
7.5°	42638.9	42542.9	42278.8	42173.2	42293.2	42432.5	42226.0	42197.2	41990.7	42240.4
10°	40612.6	40574.2	40314.9	40252.5	40358.1	40569.4	40478.2	40459.0	40329.3	40305.3
12.5°	38509.5	38360.6	38038.9	38019.7	38178.2	38495.1	38250.2	38014.9	38086.9	38149.4
15°	33093.2	32934.7	33731.8	34985.0	35642.9	35618.9	35690.9	35407.6	35321.2	35350.0
17.5°	26308.4	26039.5	26327.6	28267.5	31393.4	33208.4	32709.1	32099.2	31772.7	31556.6
20°	22707.1	22721.6	22668.7	23168.1	25117.6	29256.6	29136.6	27960.2	27532.8	27355.2
22.5°	20517.6	20436.0	20320.7	20479.2	21002.6	23432.2	25060.0	23979.6	23830.7	23633.9
25°	18371.2	18371.2	18232.0	18390.4	18539.3	18572.9	20205.5	20647.2	20359.1	20359.1
27.5°	16513.0	16416.9	16354.5	16426.6	16229.7	15283.8	15490.2	17751.8	17554.9	17434.9
30°	14669.1	14640.3	14534.7	14630.7	13900.9	12834.9	12402.7	14981.2	15187.7	15144.5
32.5°	12109.8	12225.1	12695.6	12844.5	11596.1	10736.6	10323.6	12436.4	13262.2	13228.6
35°	8230.1	8326.1	8863.9	10640.5	9613.0	8998.4	8878.3	9891.5	11250.3	11380.0
37.5°	6554.3	6539.9	6693.5	7010.5	7725.9	7577.1	7543.4	7807.5	9176.0	9233.6
40°	5401.9	5382.7	5377.9	5118.6	4940.9	6299.8	6208.6	6050.1	7236.1	7351.4
42.5°	4355.1	4374.3	4388.7	3822.1	3562.8	4859.3	4806.5	4643.2	5675.6	5810.0
45°	3418.8	3414.0	3442.8	2847.4	2775.4	3106.7	3591.7	3462.0	4283.1	4427.1
47.5°	1771.8	1834.2	2223.2	2204.0	2237.6	2204.0	2717.8	2684.1	3221.9	3452.4
50°	1190.8	1210.0	1243.6	1248.4	1762.2	1623.0	1843.8	2088.7	2256.8	2612.1
52.5°	921.9	936.3	849.9	797.1	1080.4	1200.4	1210.0	1445.3	1575.0	1935.1
55°	513.8	576.2	619.4	624.2	595.4	888.3	883.5	1070.8	1171.6	1411.7
57.5°	67.2	81.6	124.8	403.3	398.5	494.6	619.4	777.9	835.5	1032.4
60°	4.8	9.6	14.4	62.4	264.1	288.1	422.5	485.0	581.0	725.1
62.5°	0.0	0.0	4.8	14.4	52.8	168.1	220.9	254.5	340.9	475.4
65°	0.0	0.0	4.8	9.6	19.2	62.4	86.4	139.2	201.7	292.9
67.5°	0.0	0.0	4.8	9.6	14.4	24.0	38.4	62.4	105.6	177.7
70°	0.0	0.0	4.8	9.6	14.4	19.2	28.8	38.4	57.6	96.0
72.5°	0.0	0.0	4.8	4.8	9.6	24.0	24.0	28.8	38.4	52.8
75°	0.0	0.0	4.8	9.6	14.4	24.0	24.0	24.0	28.8	33.6
77.5°	0.0	0.0	4.8	9.6	14.4	24.0	19.2	24.0	24.0	24.0
80°	0.0	0.0	4.8	9.6	14.4	24.0	28.8	24.0	19.2	19.2
82.5°	0.0	0.0	4.8	14.4	14.4	33.6	33.6	33.6	14.4	14.4
85°	0.0	0.0	9.6	14.4	24.0	38.4	38.4	28.8	14.4	9.6
87.5°	0.0	0.0	4.8	9.6	9.6	19.2	28.8	24.0	9.6	4.8
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°
44660.4	0°	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4	44660.4
44242.7	2.5°	44598.0	44478.0	44703.7	44732.5	44636.4	44516.4	44237.9	44213.9	43728.9
43263.1	5°	43752.9	43556.0	43700.1	43796.1	43762.5	43632.9	43517.6	43412.0	42975.0
41673.8	7.5°	42178.0	42105.9	42173.2	42245.2	42384.4	42245.2	42197.2	42086.7	41654.6
40108.4	10°	40430.2	40295.7	40550.2	40516.6	40478.2	40439.8	40238.1	40257.3	39748.3
37976.5	12.5°	38283.8	38058.1	38303.0	38331.8	38303.0	38168.6	37942.9	38038.9	37573.2
35095.5	15°	35398.0	35374.0	35551.6	35666.9	35748.5	35604.5	35527.6	35575.7	35297.2
31388.6	17.5°	31854.4	32166.5	32747.5	32944.3	32949.1	33098.0	33054.8	32997.2	32790.7
27283.2	20°	27686.5	28286.7	29179.8	30096.9	30361.0	30236.2	30178.6	30284.2	29976.9
23427.4	22.5°	23840.3	24354.1	25391.3	26731.0	27504.0	27580.9	27566.5	27475.2	27355.2
20339.9	25°	20575.2	21031.4	22025.3	23249.7	24733.5	24954.3	24963.9	24935.1	24829.5
17540.5	27.5°	17819.0	18371.2	18918.6	20013.4	21593.2	22505.5	22390.2	22356.6	22318.2
15178.1	30°	15322.2	16018.4	16532.2	17214.0	18630.5	19864.6	19984.6	19927.0	19835.7
13223.8	32.5°	13343.9	13756.8	14409.8	14870.8	15888.8	17286.1	17747.0	17703.8	17622.2
11461.6	35°	11624.9	11788.1	12301.9	12815.7	13492.7	14846.8	15528.6	15432.6	15418.2
9339.3	37.5°	9574.6	10121.9	10405.2	10923.8	11399.2	12450.8	13391.9	13348.7	13353.5
7509.8	40°	7730.7	8047.6	8609.4	9046.4	9483.3	10251.6	11298.4	11327.2	11317.6
5814.8	42.5°	5934.9	6242.2	6832.8	7308.2	7697.1	8172.5	9171.2	9204.8	9248.0
4528.0	45°	4633.6	4830.5	5262.6	5757.2	6170.2	6458.3	7216.9	7433.0	7437.8
3510.0	47.5°	3596.5	3822.1	4129.4	4604.8	5008.2	5214.6	5766.8	6059.7	6045.3
2693.7	50°	2823.4	3029.9	3279.5	3654.1	4091.0	4254.3	4662.4	4950.5	4936.1
2031.1	52.5°	2160.8	2424.8	2645.7	2933.8	3361.2	3500.4	3793.3	4124.6	4076.6
1488.5	55°	1637.4	1906.3	2112.7	2352.8	2741.8	2919.4	3121.1	3385.2	3394.8
1152.4	57.5°	1234.0	1512.5	1699.8	1944.7	2237.6	2434.5	2588.1	2871.4	2866.6
787.5	60°	883.5	1123.6	1349.3	1603.8	1829.4	2055.1	2160.8	2429.7	2439.3
557.0	62.5°	638.6	864.3	1080.4	1301.3	1502.9	1723.8	1819.8	2031.1	2059.9
364.9	65°	446.6	605.0	854.7	1022.8	1248.4	1411.7	1536.5	1719.0	1752.6
216.1	67.5°	288.1	437.0	677.0	825.9	1032.4	1171.6	1301.3	1445.3	1488.5
139.2	70°	172.9	331.3	504.2	662.6	849.9	974.7	1099.6	1224.4	1248.4
67.2	72.5°	110.4	230.5	364.9	537.8	681.8	816.3	926.7	1018.0	945.9
43.2	75°	62.4	158.5	288.1	422.5	552.2	681.8	773.1	821.1	657.8
28.8	77.5°	38.4	115.2	235.3	340.9	427.3	547.4	605.0	633.8	470.6
19.2	80°	24.0	86.4	196.9	278.5	278.5	403.3	470.6	494.6	340.9
14.4	82.5°	19.2	62.4	153.7	211.3	187.3	302.5	369.7	374.5	240.1
9.6	85°	14.4	48.0	96.0	139.2	129.6	211.3	216.1	240.1	158.5
9.6	87.5°	9.6	28.8	57.6	81.6	72.0	100.8	115.2	129.6	86.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
44660.4
43349.6
42624.5
41563.4
39575.5
37438.7
34961.0
32483.4
29756.0
27124.7
24474.2
22092.5
19720.5
17406.1
15259.7
13199.8
11149.5
9104.0
7313.0
5992.5
4936.1
4081.4
3394.8
2857.0
2415.2
2050.3
1743.0
1483.7
1229.2
878.7
624.2
441.8
316.9
220.9
144.1
76.8
0.0

(END OF REPORT)