

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: P637110

Luminaire Tested: **IFLD-L-SA8A-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637110
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33600.5 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

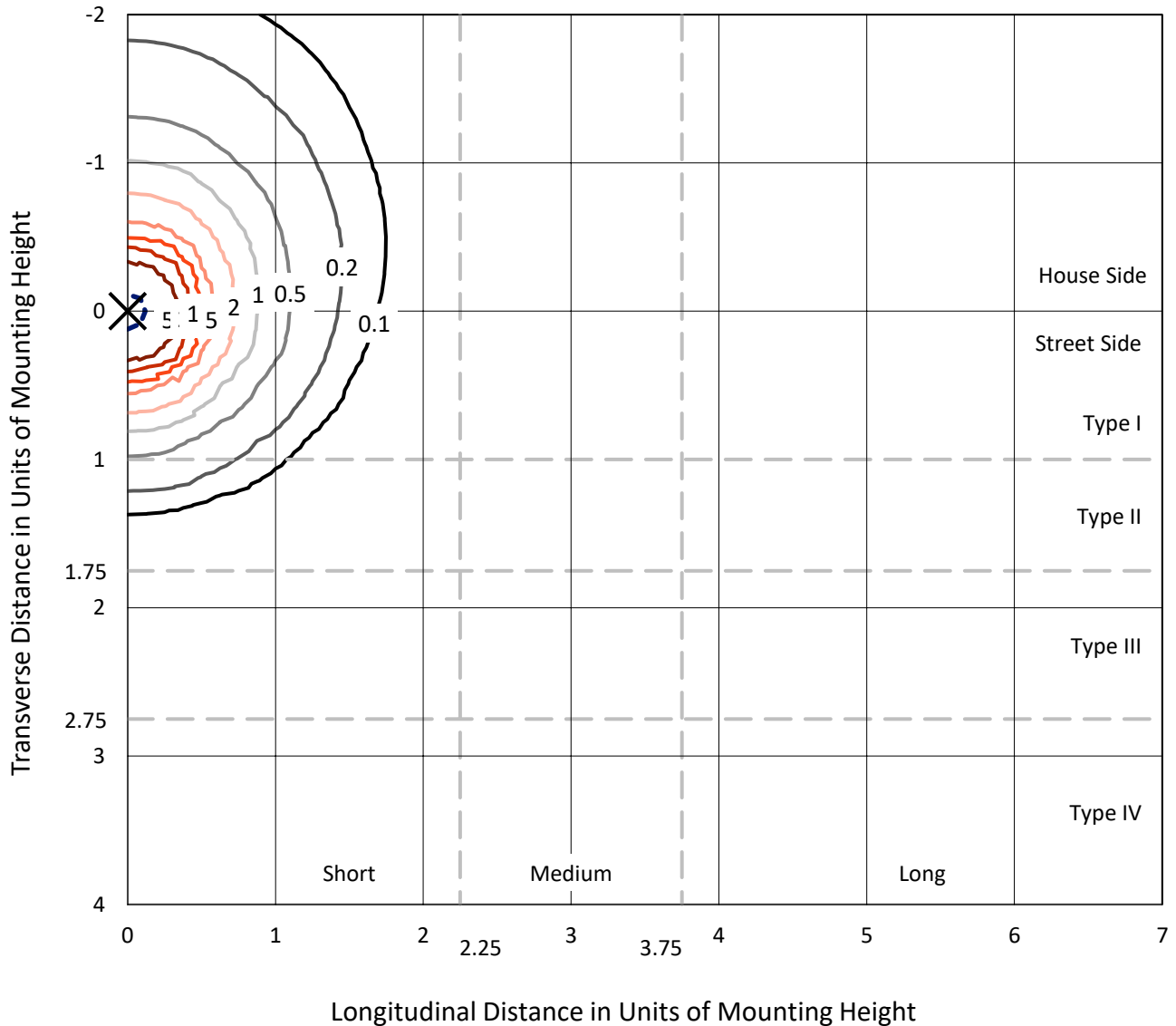
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

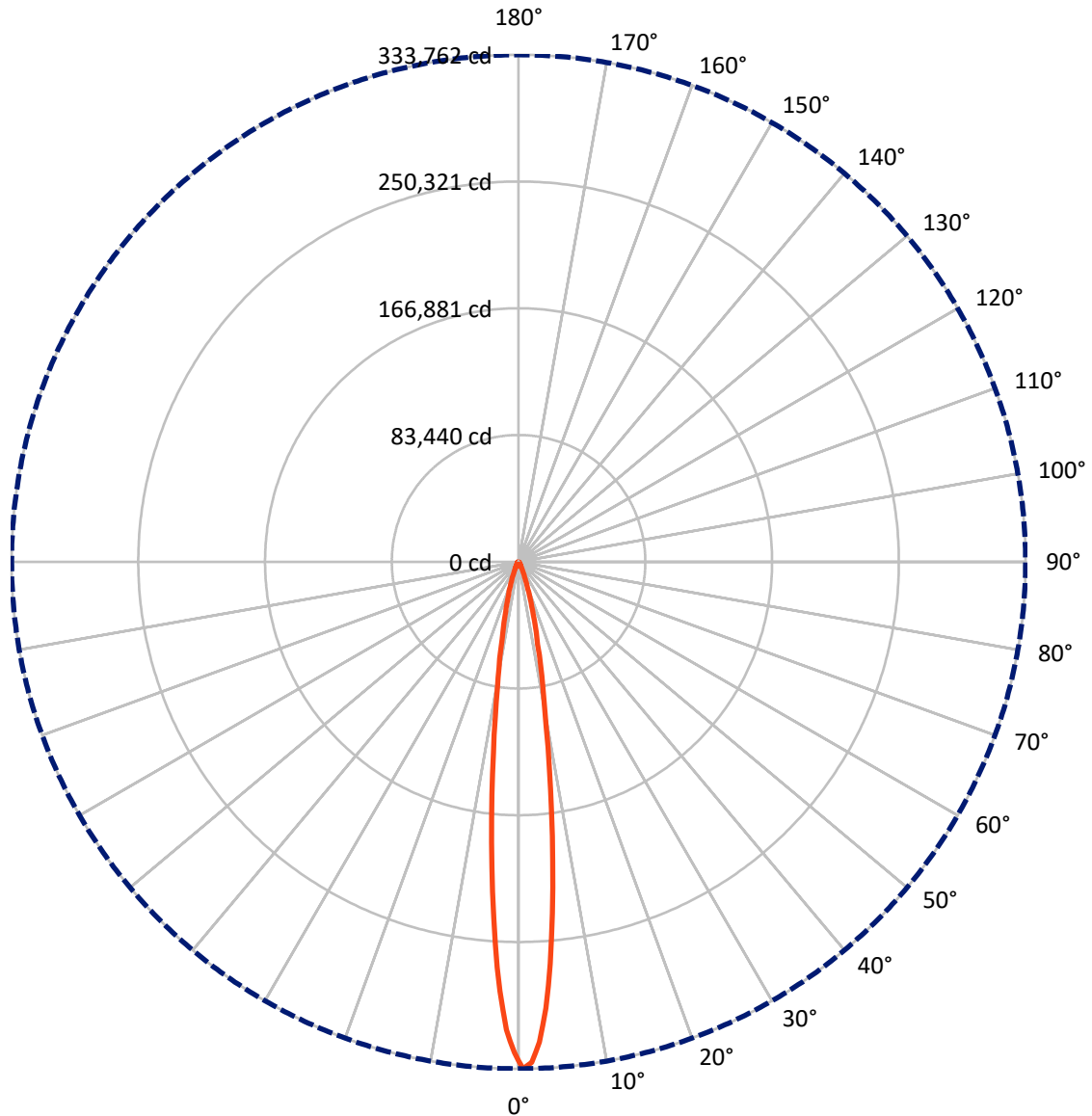
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 834.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17209.5	0.0	17209.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	16390.9	0.0	16390.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	33600.5	0.0	33600.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16962.5	50.5
10°-20°	10859.3	32.3
20°-30°	3264.1	9.7
30°-40°	1062.8	3.2
40°-50°	618.4	1.8
50°-60°	410.7	1.2
60°-70°	247.2	0.7
70°-80°	127.1	0.4
80°-90°	48.3	0.1
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°	33600.5	100.0
0°-180°	33600.5	100.0

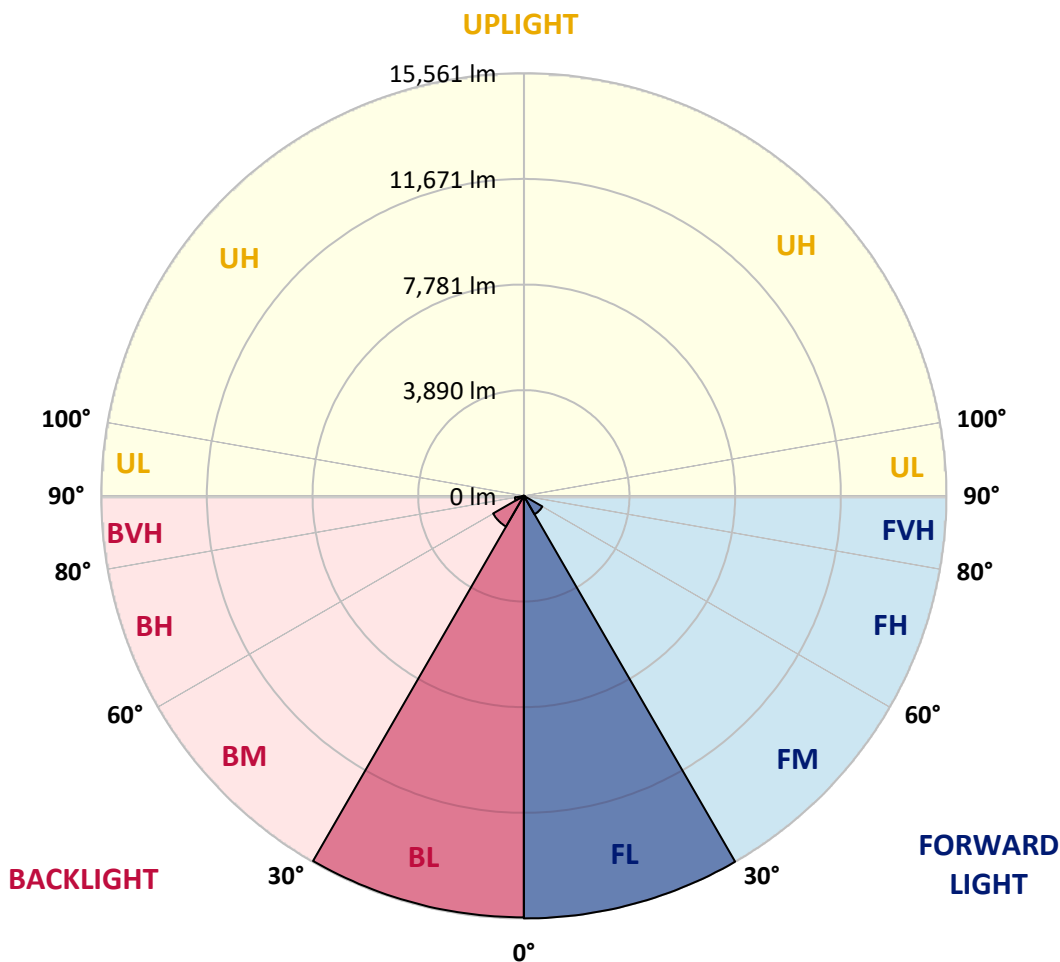


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15561.4	46.3			
FM (30°-60°)	785.3	2.3			
FH (60°-80°)	37.0	0.1			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	15524.5	46.2	B5		
BM (30°-60°)	1306.6	3.9	B2/2500		
BH (60°-80°)	337.4	1.0	B1/500		G0/660
BVH (80°-90°)	41.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	333761.7	333761.7	333761.7	333761.7	333761.7	333761.7	333761.7	333761.7	333761.7	333761.7
1°	329765.4	328759.0	326160.7	328008.8	329633.7	329161.6	329128.6	328953.0	328707.8	330632.8
2°	316583.4	315932.0	312089.4	313674.0	315983.3	314299.8	315353.8	314427.9	314446.2	316744.5
3°	294362.2	294717.2	288587.3	291467.4	294676.9	290596.4	291862.7	294241.4	291749.2	290999.0
4°	265480.4	262399.0	259050.4	261978.1	262808.9	260433.8	262768.6	265681.7	262219.7	262373.4
5°	232507.1	230230.9	226267.5	228075.3	226015.0	226765.2	230263.8	231464.2	229048.8	226007.6
6°	198604.4	196986.8	192031.7	194637.3	193905.4	193480.9	197898.0	194238.4	195555.9	193715.1
7°	165199.3	162176.4	159742.8	162238.6	162399.7	161122.4	166857.1	166191.0	163794.0	163237.7
8°	136870.1	133854.6	131794.2	133653.3	134868.3	132862.8	135559.9	137331.2	135457.5	135625.8
9°	110392.7	109862.0	106996.5	109426.5	110747.7	108599.5	111585.7	112226.2	110473.2	111325.9
10°	90641.7	90023.2	87735.9	88720.4	90908.8	88347.1	91212.6	91421.2	90023.2	90422.1
12.5°	56014.3	55765.4	55703.2	55845.9	55816.6	56270.4	57002.4	56168.0	56058.2	54678.5
15°	36204.7	36574.3	36193.7	36925.6	37031.8	37460.0	37013.5	36340.1	35055.6	34418.8
17.5°	22594.5	23066.6	23718.0	24790.3	25862.6	25987.0	25394.2	24603.7	23981.5	23300.9
20°	12999.0	13229.6	13130.7	14415.3	17189.3	17943.2	17178.3	16347.6	15597.3	14909.3
22.5°	8076.8	7992.6	8146.3	8578.2	9482.1	11813.3	11187.5	10356.7	9811.5	9244.2
25°	4951.5	5043.0	4984.4	5222.3	5628.5	6616.6	6759.3	6400.7	6122.6	5829.8
27.5°	3187.5	3187.5	3213.2	3344.9	3623.0	3590.1	4351.3	4073.2	3923.1	3780.4
30°	2214.1	2221.4	2221.4	2298.2	2360.5	2250.7	2448.3	2806.9	2737.4	2627.6
32.5°	1643.2	1665.1	1683.4	1723.7	1672.5	1555.3	1602.9	2020.1	1979.9	1939.6
35°	1251.6	1269.9	1313.8	1335.8	1262.6	1189.4	1145.5	1485.8	1504.1	1493.1
37.5°	911.2	922.2	1002.7	1086.9	1002.7	936.9	911.2	1141.8	1229.6	1218.7
40°	699.0	702.6	717.3	812.4	812.4	761.2	768.5	852.7	1006.4	1006.4
42.5°	600.2	600.2	614.8	600.2	603.8	658.7	677.0	688.0	852.7	852.7
45°	519.7	519.7	527.0	490.4	453.8	567.2	581.9	585.5	717.3	735.6
47.5°	435.5	435.5	450.1	402.6	384.3	450.1	490.4	501.4	618.5	633.1
50°	322.0	325.7	369.6	329.4	340.3	347.7	424.5	431.8	523.3	556.3
52.5°	215.9	215.9	223.2	256.2	296.4	285.5	344.0	369.6	417.2	461.1
55°	175.7	175.7	172.0	164.7	219.6	237.9	252.5	307.4	340.3	395.2
57.5°	120.8	128.1	117.1	135.4	142.7	179.3	190.3	241.5	259.8	333.0
60°	14.6	18.3	25.6	98.8	95.2	120.8	142.7	190.3	212.3	256.2
62.5°	3.7	3.7	7.3	18.3	65.9	80.5	113.4	131.7	153.7	197.6
65°	0.0	0.0	3.7	7.3	14.6	43.9	58.6	76.9	109.8	139.1
67.5°	0.0	0.0	3.7	7.3	7.3	18.3	29.3	47.6	58.6	102.5
70°	0.0	0.0	3.7	7.3	7.3	14.6	18.3	22.0	40.3	54.9
72.5°	0.0	0.0	3.7	7.3	11.0	14.6	18.3	18.3	18.3	36.6
75°	0.0	0.0	3.7	7.3	11.0	14.6	18.3	18.3	14.6	14.6
77.5°	0.0	0.0	3.7	7.3	14.6	18.3	22.0	18.3	11.0	11.0
80°	0.0	0.0	3.7	11.0	18.3	25.6	29.3	22.0	11.0	7.3
82.5°	0.0	0.0	7.3	14.6	22.0	29.3	40.3	32.9	14.6	7.3
85°	0.0	0.0	3.7	11.0	22.0	29.3	58.6	40.3	18.3	3.7
87.5°	0.0	0.0	0.0	3.7	3.7	7.3	22.0	14.6	7.3	3.7
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°
333761.7	0°	333761.7	333761.7	333761.7	333761.7	333761.7	333761.7	333761.7	333761.7
328411.4	1°	330705.9	330936.5	330182.6	331350.0	330940.2	328539.4	327745.3	326804.8
315394.1	2°	314427.9	315602.7	315661.2	316956.7	316938.4	314138.8	313271.5	314870.7
292521.4	3°	291635.8	293004.5	291771.2	294073.1	293381.4	289985.3	289103.3	290918.5
263588.4	4°	262801.5	262541.7	262117.2	260807.1	262420.9	260104.4	258358.8	260821.7
230040.6	5°	229579.4	229001.2	228174.1	227786.2	228986.6	227504.4	223914.3	227511.8
197045.4	6°	197286.9	194798.3	194677.6	194461.7	194582.4	190432.4	190681.3	193360.1
161323.7	7°	163029.1	163486.6	162553.4	164050.1	162908.3	160097.7	159014.5	161836.1
136365.1	8°	135413.6	134835.3	134121.7	136357.7	134377.9	132533.4	131270.9	133499.6
111465.0	9°	111256.4	110257.3	109532.7	109419.2	109726.6	106264.6	106967.3	108654.4
90641.7	10°	90674.6	89035.1	89434.0	89540.1	89203.4	86934.5	86956.4	87538.3
55593.4	12.5°	55395.8	54590.7	54792.0	54901.7	55586.1	54788.3	53661.1	52848.7
35051.9	15°	34817.7	34239.5	35421.5	36215.7	36054.7	35344.7	34814.0	34078.5
23300.9	17.5°	23084.9	23842.5	23846.1	24570.7	24643.9	23934.0	23524.1	22861.7
15154.5	20°	15099.6	15414.4	16069.4	16581.8	16878.2	16336.6	15846.2	15392.4
9449.2	22.5°	9449.2	9998.1	10408.0	11074.0	11344.8	10949.6	10601.9	10232.3
5899.3	25°	5800.5	6192.1	6532.4	7110.7	7480.3	7290.0	6971.6	6711.8
3809.7	27.5°	3868.2	4032.9	4201.3	4600.2	4984.4	4878.3	4750.2	4592.8
2686.2	30°	2726.4	2741.1	2920.4	3143.6	3399.8	3465.7	3407.1	3326.6
1972.5	32.5°	2009.1	2067.7	2151.9	2290.9	2462.9	2620.3	2591.0	2554.4
1507.8	35°	1551.7	1639.5	1709.0	1815.2	1906.7	2056.7	2082.3	2071.3
1240.6	37.5°	1266.2	1343.1	1412.6	1474.8	1551.7	1654.2	1734.7	1738.3
1024.7	40°	1050.3	1119.8	1211.3	1258.9	1313.8	1390.7	1489.5	1496.8
867.3	42.5°	885.6	951.5	1043.0	1101.5	1141.8	1215.0	1313.8	1328.4
742.9	45°	761.2	801.5	896.6	966.1	1006.4	1054.0	1160.1	1174.7
640.4	47.5°	662.4	702.6	761.2	860.0	896.6	940.5	1024.7	1050.3
567.2	50°	581.9	622.1	673.4	761.2	816.1	852.7	922.2	958.8
494.0	52.5°	516.0	556.3	611.2	680.7	742.9	775.8	841.7	889.3
402.6	55°	431.8	501.4	541.6	603.8	688.0	717.3	768.5	830.7
351.3	57.5°	376.9	435.5	494.0	545.3	629.5	666.1	717.3	775.8
278.1	60°	318.4	373.3	442.8	486.7	567.2	614.8	669.7	724.6
212.3	62.5°	252.5	325.7	373.3	435.5	512.3	574.6	618.5	673.4
164.7	65°	186.6	267.2	322.0	387.9	461.1	527.0	563.6	622.1
117.1	67.5°	135.4	208.6	274.5	336.7	406.2	472.1	508.7	559.9
73.2	70°	106.1	153.7	226.9	281.8	355.0	409.9	450.1	483.1
47.6	72.5°	62.2	117.1	183.0	245.2	311.1	347.7	376.9	406.2
22.0	75°	40.3	91.5	150.0	204.9	252.5	285.5	311.1	336.7
11.0	77.5°	25.6	65.9	120.8	172.0	194.0	234.2	256.2	270.8
7.3	80°	14.6	51.2	106.1	139.1	157.4	183.0	204.9	223.2
7.3	82.5°	11.0	43.9	87.8	117.1	117.1	146.4	157.4	157.4
3.7	85°	7.3	36.6	69.5	109.8	87.8	109.8	102.5	102.5
3.7	87.5°	7.3	25.6	32.9	47.6	40.3	47.6	47.6	54.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
333761.7
323079.3
308096.8
282856.3
251906.8
218033.3
185594.4
154161.8
127135.5
103384.5
83578.6
52354.6
33701.5
22697.0
15235.0
10034.7
6561.7
4501.3
3271.7
2525.1
2034.8
1712.7
1485.8
1317.5
1171.1
1054.0
962.5
889.3
834.4
779.5
739.2
699.0
633.1
563.6
494.0
413.5
336.7
263.5
201.3
146.4
98.8
54.9
0.0

(END OF REPORT)