

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: P637686

Luminaire Tested: **IFLD-L-SA7B-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637686
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34217.9 lumens
Efficiency: N/A
Efficacy: 121.8 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): 281
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



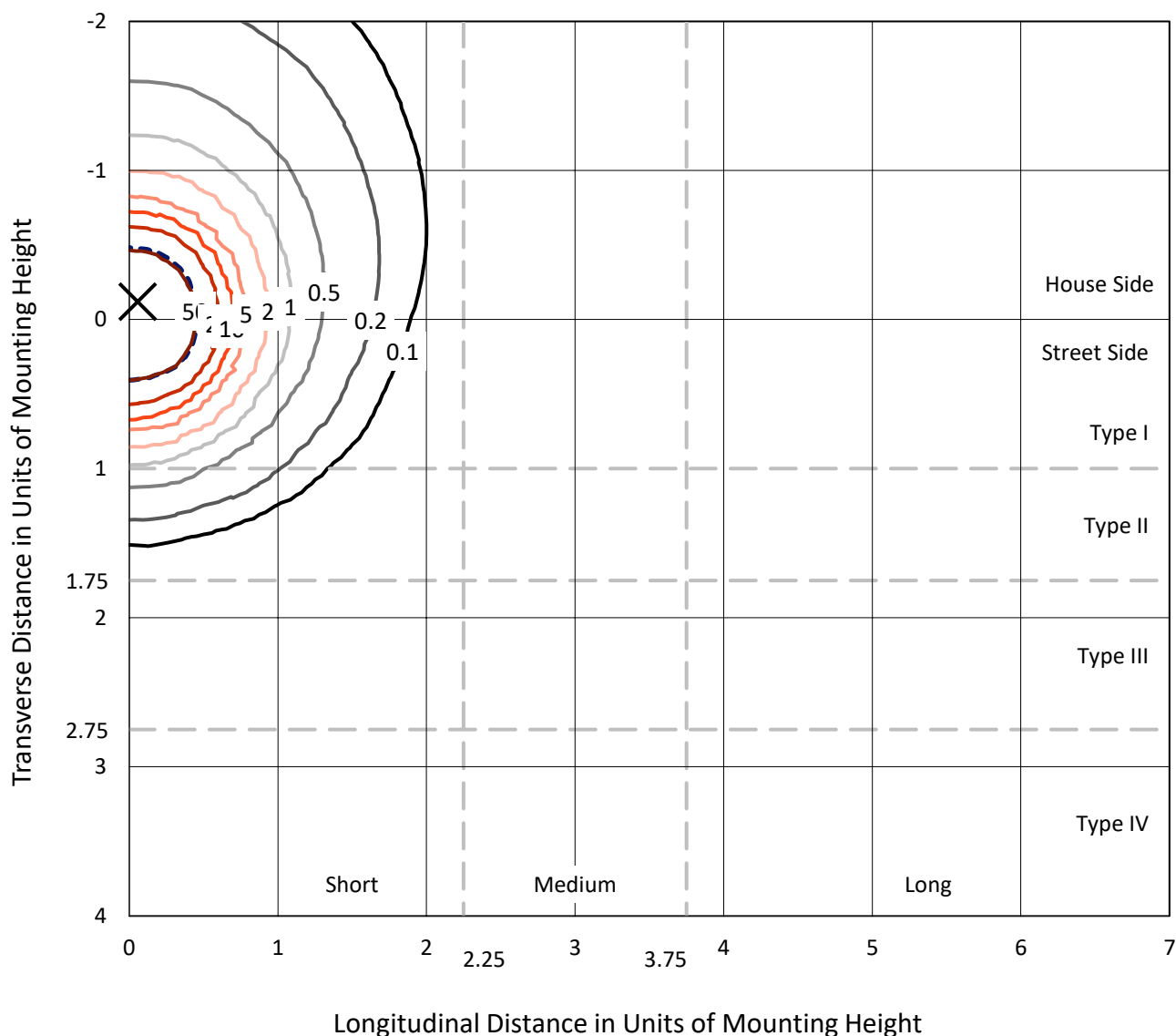
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

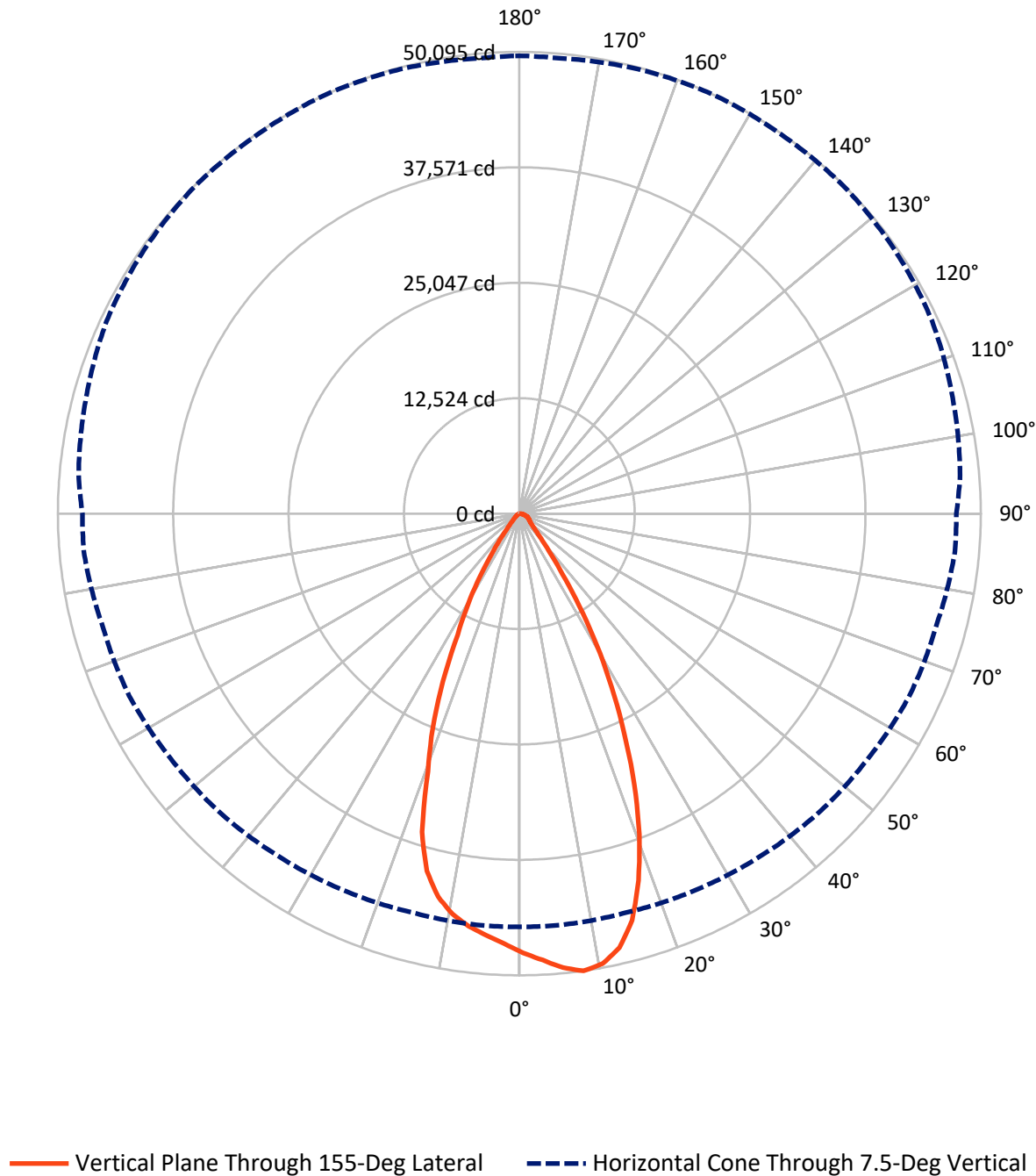


Based on 20 foot mounting height. Maximum calculated value = 121.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18889.6	0.0	18889.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15328.4	0.0	15328.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	34217.9	0.0	34217.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4545.5	13.3
10°-20°	11786.4	34.4
20°-30°	10799.7	31.6
30°-40°	4363.1	12.8
40°-50°	1279.9	3.7
50°-60°	715.6	2.1
60°-70°	434.7	1.3
70°-80°	220.8	0.6
80°-90°	72.2	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°	34217.9	100.0
0°-180°	34217.9	100.0

Coefficient of Utilization



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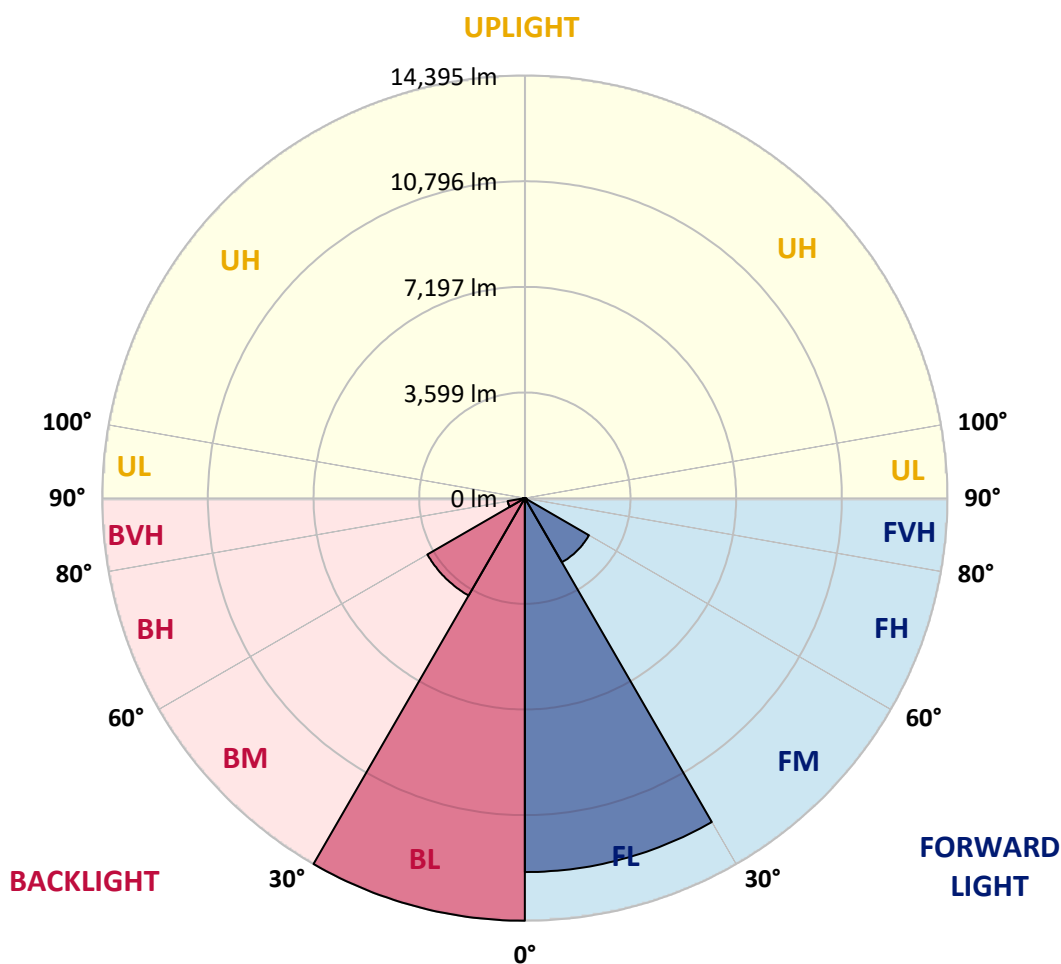
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12736.8	37.2			
FM	(30°-60°)	2524.2	7.4			
FH	(60°-80°)	61.1	0.2			G0/660
FVH	(80°-90°)	6.3	0.0			G0/10
BL	(0°-30°)	14394.8	42.1	B5		
BM	(30°-60°)	3834.4	11.2	B3/5000		
BH	(60°-80°)	594.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	66.0	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°	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3
2.5°	46634.5	46792.3	46476.7	46685.8	46847.6	47234.2	47265.8	47400.0	47447.3	47798.5
5°	45750.6	45873.0	45616.5	45896.6	46125.5	46468.8	46733.1	47104.0	47309.2	47723.5
7.5°	44831.3	44858.9	44807.6	45103.5	45446.8	45920.3	46247.8	46733.1	46859.4	47451.2
10°	43718.6	43517.4	43616.0	44050.0	44563.0	45289.0	45513.9	45999.2	46224.1	46827.8
12.5°	41943.0	42045.6	41923.3	42475.7	42901.8	43726.5	43963.2	44452.5	44882.6	45415.3
15°	39441.4	39382.2	39630.8	40060.9	40522.6	41177.5	41560.3	42093.0	42420.5	42972.9
17.5°	33818.8	34020.0	35045.9	36123.1	37070.1	37835.5	38293.2	38735.1	38971.9	39571.6
20°	29206.2	28953.7	29091.8	29699.4	32394.4	33566.3	34047.6	34154.2	34252.8	34726.3
22.5°	24049.2	23966.3	24428.0	25110.6	25749.8	28452.6	29107.6	28859.0	29064.2	29510.1
25°	17858.3	18276.6	18686.9	19996.9	20825.5	22151.3	23394.2	23504.7	23579.6	23859.8
27.5°	14536.0	14390.0	14382.2	14749.1	15972.3	17077.1	18134.5	18379.2	18335.8	18604.1
30°	11426.8	11379.5	11213.7	11300.5	11178.2	12160.7	12657.9	13664.0	13608.8	13616.7
32.5°	8242.6	8065.1	7998.0	8128.2	8001.9	7911.2	8345.2	9481.6	9461.8	9540.8
35°	4987.4	4963.7	5019.0	5133.4	4880.9	4873.0	4963.7	6033.0	6163.2	6289.5
37.5°	2754.1	2730.4	2773.8	3196.0	3113.2	3038.2	3061.9	3626.1	4001.0	4095.7
40°	1815.0	1811.1	1842.7	1917.6	2059.7	2032.0	2043.9	2296.4	2651.5	2734.4
42.5°	1215.3	1219.2	1239.0	1325.8	1345.5	1487.5	1463.9	1523.0	1854.5	1925.5
45°	970.6	966.7	978.5	939.1	962.8	1108.7	1124.5	1128.5	1412.6	1456.0
47.5°	765.5	765.5	777.3	726.0	714.2	804.9	887.8	899.6	1128.5	1187.7
50°	536.6	536.6	595.8	572.1	599.7	627.4	718.1	730.0	923.3	986.4
52.5°	394.6	402.5	410.4	414.3	505.1	501.1	580.0	635.3	698.4	808.9
55°	299.9	307.8	288.0	307.8	374.8	418.2	434.0	512.9	556.3	678.7
57.5°	197.3	217.0	201.2	236.7	252.5	323.5	347.2	422.2	449.8	556.3
60°	27.6	31.6	51.3	165.7	177.6	213.1	268.3	335.4	363.0	453.8
62.5°	3.9	3.9	11.8	27.6	118.4	142.0	201.2	232.8	268.3	339.3
65°	0.0	0.0	3.9	7.9	23.7	82.9	102.6	126.3	185.4	244.6
67.5°	0.0	0.0	3.9	7.9	11.8	27.6	43.4	82.9	106.5	169.7
70°	0.0	0.0	3.9	7.9	11.8	15.8	23.7	31.6	63.1	98.6
72.5°	0.0	0.0	3.9	7.9	11.8	15.8	19.7	23.7	27.6	63.1
75°	0.0	0.0	3.9	7.9	11.8	19.7	23.7	23.7	23.7	27.6
77.5°	0.0	0.0	3.9	7.9	15.8	23.7	27.6	23.7	19.7	19.7
80°	0.0	0.0	3.9	11.8	19.7	27.6	31.6	23.7	15.8	11.8
82.5°	0.0	0.0	3.9	11.8	19.7	27.6	31.6	27.6	15.8	11.8
85°	0.0	0.0	3.9	11.8	15.8	19.7	31.6	27.6	15.8	7.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.9	15.8	11.8	7.9	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°
47668.3	0°	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3	47668.3
47790.6	2.5°	48145.7	48323.3	48635.0	48721.8	48990.1	48682.3	48512.6	48528.4	48161.5
47672.2	5°	48145.7	48552.1	49096.6	49357.0	49554.3	49538.5	49495.1	49384.6	49116.3
47435.5	7.5°	48019.4	48682.3	49432.0	49779.2	50016.0	49996.2	50094.9	49917.3	49589.8
47013.3	10°	47613.0	48189.1	49112.4	49396.5	49779.2	49787.1	49664.8	49700.3	49116.3
45470.5	12.5°	46334.6	46784.4	47593.3	47916.8	48382.4	48457.4	48323.3	48272.0	47719.6
42941.3	15°	43860.6	44121.1	44933.9	45257.4	45719.1	45655.9	45790.1	45734.9	45249.5
39524.3	17.5°	40242.4	40325.3	41177.5	41449.8	41883.8	42053.5	41852.3	42108.7	41690.5
34809.2	20°	35053.8	35499.7	36458.5	36876.7	37129.2	37433.1	37168.7	37456.7	36967.5
29087.9	22.5°	29790.2	30054.6	30922.6	31526.3	31995.9	32055.0	31956.4	32157.6	31498.7
24045.2	25°	24041.3	24479.3	25165.8	25955.0	26416.6	26700.7	26444.2	26574.4	26467.9
18647.5	27.5°	18963.1	19353.8	19870.7	20458.6	21153.0	21523.9	21318.7	21539.7	21018.9
13904.7	30°	13916.6	14113.8	14697.8	15321.2	16082.8	16532.6	16552.3	16777.2	16469.4
9742.0	32.5°	9813.0	9986.6	10345.7	10760.0	11486.0	11987.1	11908.2	11939.8	11750.4
6348.7	35°	6380.2	6613.0	6869.5	7066.8	7504.8	8057.2	8013.8	7974.3	7844.1
4174.6	37.5°	4265.3	4356.1	4498.1	4675.7	4959.8	5307.0	5421.4	5279.4	5224.1
2817.2	40°	2884.3	3042.2	3136.8	3271.0	3405.2	3697.1	3776.1	3748.4	3693.2
1972.9	42.5°	2047.8	2170.1	2288.5	2418.7	2489.8	2671.3	2825.1	2781.7	2758.1
1499.4	45°	1554.6	1665.1	1803.2	1901.8	1972.9	2079.4	2225.4	2241.2	2205.7
1203.4	47.5°	1246.8	1345.5	1456.0	1578.3	1661.1	1728.2	1854.5	1901.8	1878.2
1014.1	50°	1057.5	1132.4	1239.0	1361.3	1452.0	1511.2	1621.7	1673.0	1657.2
848.3	52.5°	899.6	990.4	1089.0	1191.6	1302.1	1361.3	1463.9	1538.8	1527.0
702.3	55°	745.7	864.1	966.7	1069.3	1195.6	1254.7	1345.5	1444.1	1424.4
595.8	57.5°	651.0	749.7	856.2	954.9	1089.0	1167.9	1250.8	1353.4	1349.4
489.3	60°	544.5	643.2	761.5	844.4	986.4	1096.9	1171.9	1278.4	1286.3
370.9	62.5°	434.0	556.3	647.1	761.5	891.7	1021.9	1093.0	1199.5	1239.0
284.1	65°	323.5	457.7	560.3	674.7	797.0	943.0	1006.2	1112.7	1152.2
205.2	67.5°	240.7	343.3	473.5	572.1	710.2	836.5	911.5	1010.1	1037.7
122.3	70°	181.5	264.4	394.6	481.4	623.4	726.0	801.0	876.0	911.5
82.9	72.5°	106.5	197.3	311.7	414.3	536.6	623.4	678.7	737.8	761.5
39.5	75°	75.0	149.9	244.6	343.3	434.0	505.1	556.3	607.6	631.3
19.7	77.5°	39.5	110.5	193.3	276.2	339.3	398.5	449.8	489.3	505.1
15.8	80°	23.7	78.9	157.8	217.0	260.4	311.7	363.0	390.6	386.7
11.8	82.5°	15.8	63.1	114.4	157.8	189.4	228.9	264.4	284.1	284.1
7.9	85°	11.8	43.4	78.9	122.3	126.3	157.8	165.7	185.4	189.4
7.9	87.5°	7.9	27.6	43.4	71.0	67.1	82.9	86.8	98.6	106.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
47668.3
47865.5
49203.1
49664.8
48946.7
47593.3
45403.4
41587.9
36928.0
31407.9
26400.8
21153.0
16524.7
11856.9
7729.7
5212.3
3701.1
2738.3
2201.7
1866.3
1653.3
1519.1
1424.4
1345.5
1286.3
1235.0
1148.2
1037.7
903.6
753.6
623.4
501.1
382.7
280.1
185.4
102.6
0.0

(END OF REPORT)