

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: P637073

Luminaire Tested: **IFLD-M-SA4C-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637073
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25747 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

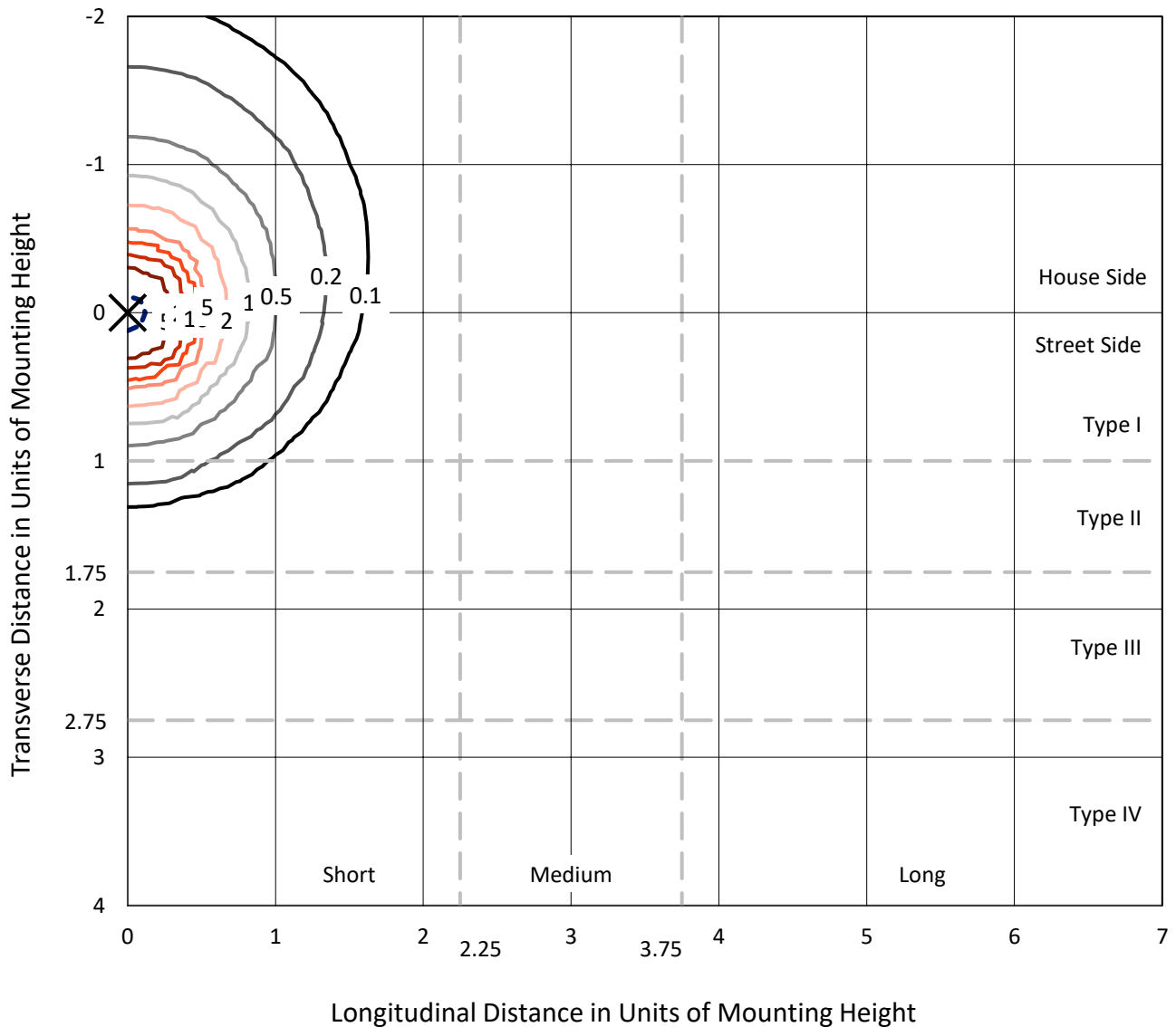
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

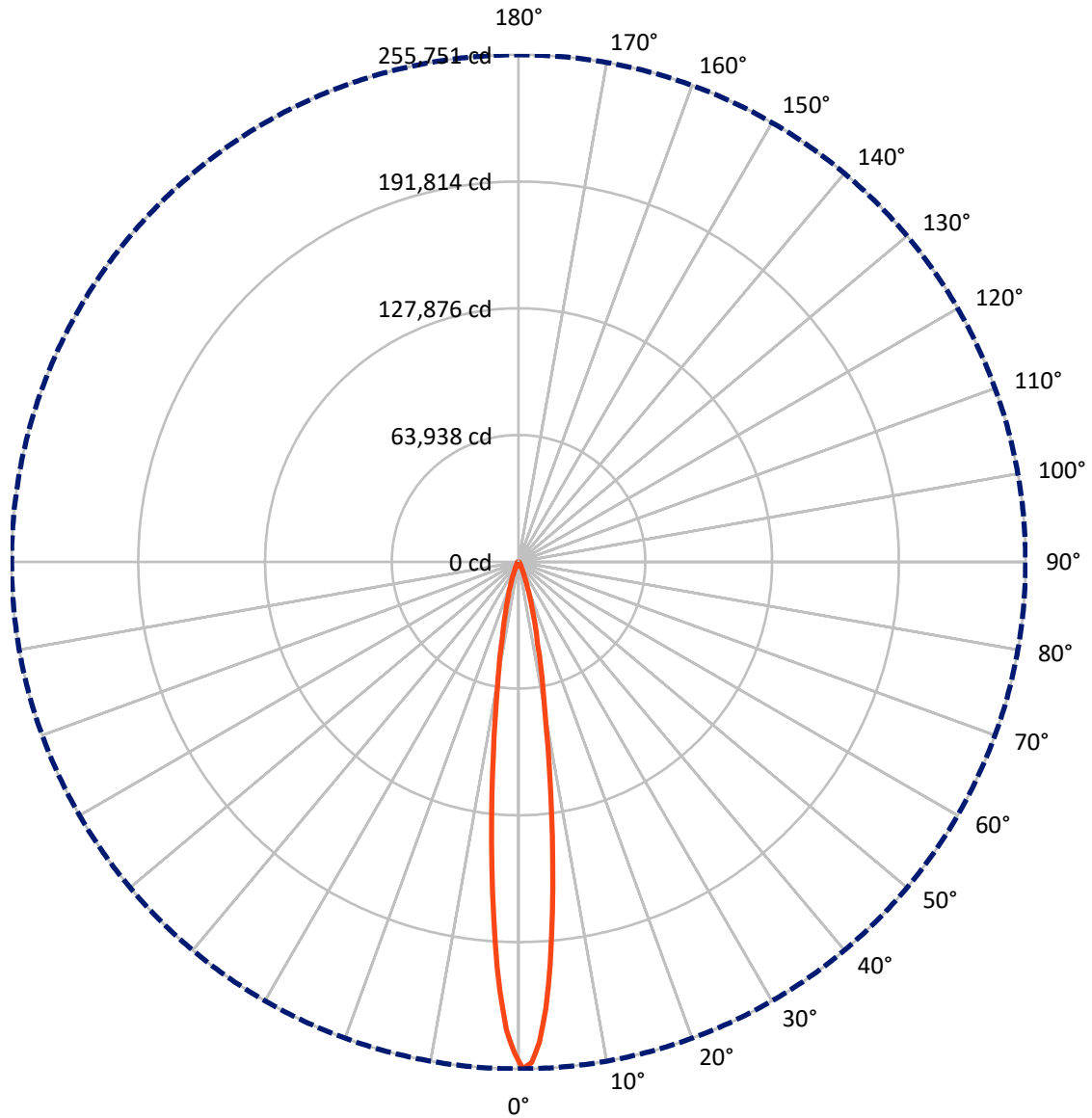
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 639.4 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	13187.1	0.0	13187.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12559.9	0.0	12559.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	25747.0	0.0	25747.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12997.9	50.5
10°-20°	8321.2	32.3
20°-30°	2501.2	9.7
30°-40°	814.4	3.2
40°-50°	473.8	1.8
50°-60°	314.7	1.2
60°-70°	189.4	0.7
70°-80°	97.4	0.4
80°-90°	37.0	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°	25747.0	100.0
0°-180°	25747.0	100.0

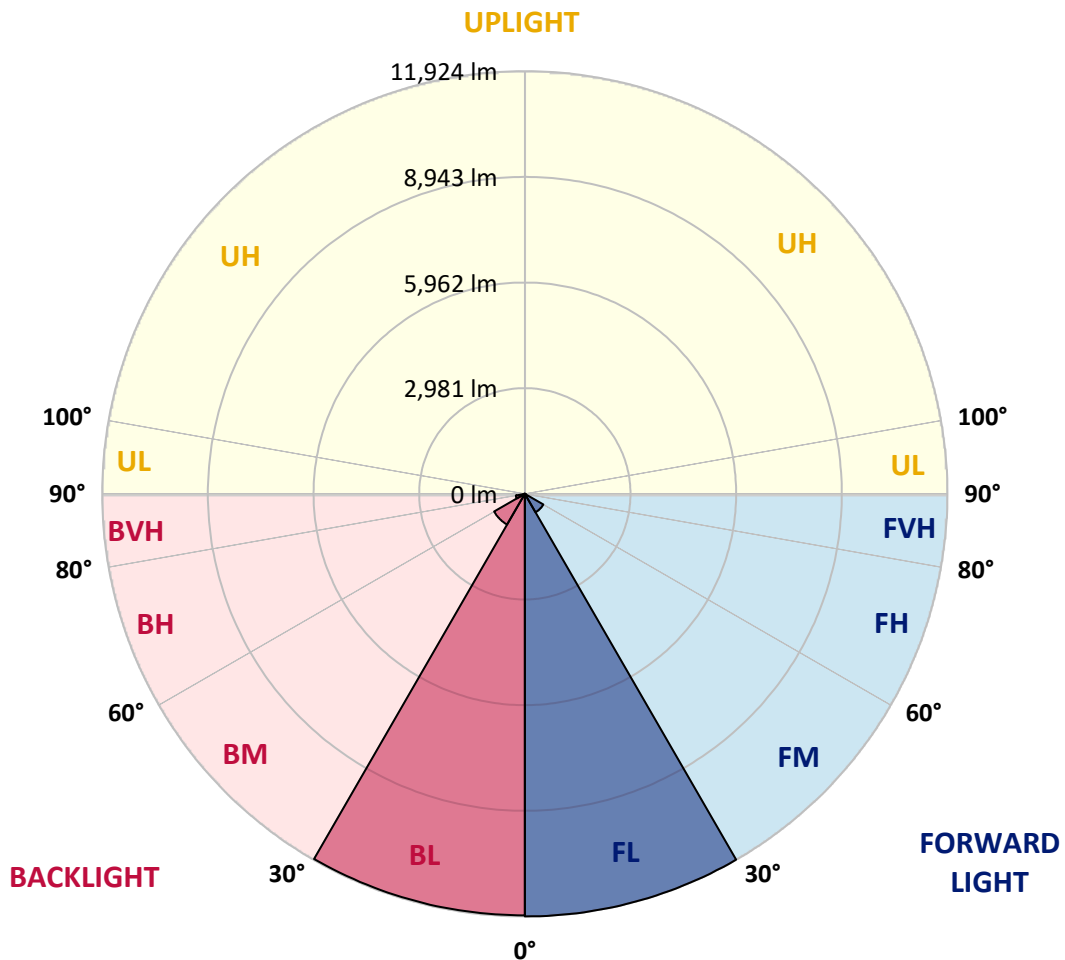


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11924.2	46.3			
FM (30°-60°)	601.7	2.3			
FH (60°-80°)	28.3	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	11896.0	46.2	B5		
BM (30°-60°)	1001.2	3.9	B2/2500		
BH (60°-80°)	258.5	1.0	B1/500		G0/660
BVH (80°-90°)	31.4	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°	255751.4	255751.4	255751.4	255751.4	255751.4	255751.4	255751.4	255751.4	255751.4	255751.4
1°	252689.2	251918.0	249927.0	251343.1	252588.2	252226.5	252201.2	252066.6	251878.7	253353.8
2°	242588.2	242089.1	239144.6	240358.8	242128.3	240838.4	241646.0	240936.5	240950.5	242711.6
3°	225560.7	225832.8	221135.6	223342.6	225801.9	222675.2	223645.4	225468.2	223558.5	222983.6
4°	203429.5	201068.3	198502.4	200745.8	201382.4	199562.4	201351.6	203583.7	200930.9	201048.7
5°	178163.1	176418.9	173381.9	174767.2	173188.4	173763.2	176444.1	177363.9	175513.1	173182.8
6°	152184.4	150945.0	147148.0	149144.6	148583.8	148258.5	151643.2	148839.0	149848.5	148438.0
7°	126587.1	124270.8	122406.0	124318.5	124441.9	123463.2	127857.5	127347.1	125510.3	125084.1
8°	104879.4	102568.7	100989.9	102414.4	103345.4	101808.7	103875.4	105232.7	103796.9	103925.9
9°	84590.5	84183.9	81988.2	83850.2	84862.5	83216.4	85504.7	85995.5	84652.2	85305.6
10°	69455.9	68982.0	67229.4	67983.7	69660.6	67697.7	69893.4	70053.2	68982.0	69287.7
12.5°	42922.0	42731.3	42683.7	42793.0	42770.6	43118.3	43679.2	43039.8	42955.7	41898.5
15°	27742.6	28025.8	27734.1	28295.0	28376.3	28704.4	28362.3	27846.3	26862.0	26374.1
17.5°	17313.5	17675.3	18174.4	18996.1	19817.7	19913.1	19458.8	18853.0	18376.3	17854.7
20°	9960.7	10137.4	10061.7	11046.0	13171.6	13749.3	13163.2	12526.6	11951.8	11424.6
22.5°	6189.0	6124.5	6242.3	6573.2	7265.8	9052.2	8572.6	7936.1	7518.2	7083.6
25°	3794.2	3864.3	3819.4	4001.7	4313.0	5070.1	5179.5	4904.7	4691.5	4467.2
27.5°	2442.5	2442.5	2462.1	2563.1	2776.2	2751.0	3334.3	3121.1	3006.2	2896.8
30°	1696.6	1702.2	1702.2	1761.1	1808.7	1724.6	1876.1	2150.9	2097.6	2013.5
32.5°	1259.1	1275.9	1290.0	1320.8	1281.5	1191.8	1228.3	1548.0	1517.1	1486.3
35°	959.1	973.1	1006.7	1023.6	967.5	911.4	877.7	1138.5	1152.6	1144.1
37.5°	698.3	706.7	768.4	832.9	768.4	717.9	698.3	874.9	942.2	933.8
40°	535.6	538.4	549.6	622.5	622.5	583.3	588.9	653.4	771.2	771.2
42.5°	459.9	459.9	471.1	459.9	462.7	504.8	518.8	527.2	653.4	653.4
45°	398.2	398.2	403.8	375.8	347.7	434.7	445.9	448.7	549.6	563.7
47.5°	333.7	333.7	344.9	308.5	294.4	344.9	375.8	384.2	473.9	485.1
50°	246.8	249.6	283.2	252.4	260.8	266.4	325.3	330.9	401.0	426.2
52.5°	165.5	165.5	171.1	196.3	227.1	218.7	263.6	283.2	319.7	353.3
55°	134.6	134.6	131.8	126.2	168.3	182.3	193.5	235.6	260.8	302.9
57.5°	92.5	98.1	89.7	103.8	109.4	137.4	145.8	185.1	199.1	255.2
60°	11.2	14.0	19.6	75.7	72.9	92.5	109.4	145.8	162.6	196.3
62.5°	2.8	2.8	5.6	14.0	50.5	61.7	86.9	101.0	117.8	151.4
65°	0.0	0.0	2.8	5.6	11.2	33.7	44.9	58.9	84.1	106.6
67.5°	0.0	0.0	2.8	5.6	5.6	14.0	22.4	36.5	44.9	78.5
70°	0.0	0.0	2.8	5.6	5.6	11.2	14.0	16.8	30.8	42.1
72.5°	0.0	0.0	2.8	5.6	8.4	11.2	14.0	14.0	14.0	28.0
75°	0.0	0.0	2.8	5.6	8.4	11.2	14.0	14.0	11.2	11.2
77.5°	0.0	0.0	2.8	5.6	11.2	14.0	16.8	14.0	8.4	8.4
80°	0.0	0.0	2.8	8.4	14.0	19.6	22.4	16.8	8.4	5.6
82.5°	0.0	0.0	5.6	11.2	16.8	22.4	30.8	25.2	11.2	5.6
85°	0.0	0.0	2.8	8.4	16.8	22.4	44.9	30.8	14.0	2.8
87.5°	0.0	0.0	0.0	2.8	2.8	5.6	16.8	11.2	5.6	2.8
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°
255751.4	0°	255751.4	255751.4	255751.4	255751.4	255751.4	255751.4	255751.4	255751.4
251651.6	1°	253409.9	253586.5	253008.8	253903.4	253589.3	251749.7	251141.2	250420.5
241676.8	2°	240936.5	241836.7	241881.5	242874.2	242860.2	240715.0	240050.4	241275.8
224150.2	3°	223471.6	224520.4	223575.3	225339.2	224809.2	222206.8	221531.0	222921.9
201979.7	4°	201376.8	201177.7	200852.4	199848.5	201085.1	199310.1	197972.4	199859.7
176273.0	5°	175919.7	175476.6	174842.9	174545.6	175465.4	174329.7	171578.7	174335.3
150989.8	6°	151174.9	149268.0	149175.5	149010.0	149102.6	145922.5	146113.2	148165.9
123617.4	7°	124924.2	125274.8	124559.7	125706.6	124831.7	122678.0	121847.9	124010.0
104492.4	8°	103763.3	103320.2	102773.4	104486.8	102969.7	101556.3	100588.8	102296.6
85412.2	9°	85252.3	84486.8	83931.5	83844.6	84080.2	81427.3	81965.7	83258.5
69455.9	10°	69481.2	68224.9	68530.5	68611.9	68353.9	66615.2	66632.0	67077.9
42599.5	12.5°	42448.1	41831.2	41985.4	42069.5	42593.9	41982.6	41118.9	40496.3
26859.2	15°	26679.7	26236.7	27142.4	27751.0	27627.6	27083.6	26676.9	26113.3
17854.7	17.5°	17689.3	18269.8	18272.6	18827.8	18883.9	18339.9	18025.8	17518.2
11612.4	20°	11570.4	11811.5	12313.5	12706.1	12933.3	12518.2	12142.5	11794.7
7240.6	22.5°	7240.6	7661.2	7975.3	8485.7	8693.2	8390.3	8123.9	7840.7
4520.5	25°	4444.8	4744.8	5005.6	5448.7	5731.9	5586.1	5342.1	5143.0
2919.2	27.5°	2964.1	3090.3	3219.3	3525.0	3819.4	3738.1	3639.9	3519.3
2058.3	30°	2089.2	2100.4	2237.8	2408.9	2605.2	2655.6	2610.8	2549.1
1511.5	32.5°	1539.5	1584.4	1648.9	1755.5	1887.3	2007.9	1985.4	1957.4
1155.4	35°	1189.0	1256.3	1309.6	1390.9	1461.0	1576.0	1595.6	1587.2
950.6	37.5°	970.3	1029.2	1082.4	1130.1	1189.0	1267.5	1329.2	1332.0
785.2	40°	804.8	858.1	928.2	964.7	1006.7	1065.6	1141.3	1146.9
664.6	42.5°	678.6	729.1	799.2	844.1	874.9	931.0	1006.7	1017.9
569.3	45°	583.3	614.1	687.0	740.3	771.2	807.6	889.0	900.2
490.7	47.5°	507.6	538.4	583.3	659.0	687.0	720.7	785.2	804.8
434.7	50°	445.9	476.7	516.0	583.3	625.4	653.4	706.7	734.7
378.6	52.5°	395.4	426.2	468.3	521.6	569.3	594.5	645.0	681.4
308.5	55°	330.9	384.2	415.0	462.7	527.2	549.6	588.9	636.6
269.2	57.5°	288.8	333.7	378.6	417.8	482.3	510.4	549.6	594.5
213.1	60°	244.0	286.0	339.3	373.0	434.7	471.1	513.2	555.2
162.6	62.5°	193.5	249.6	286.0	333.7	392.6	440.3	473.9	516.0
126.2	65°	143.0	204.7	246.8	297.3	353.3	403.8	431.9	476.7
89.7	67.5°	103.8	159.8	210.3	258.0	311.3	361.7	389.8	429.1
56.1	70°	81.3	117.8	173.9	215.9	272.0	314.1	344.9	370.2
36.5	72.5°	47.7	89.7	140.2	187.9	238.4	266.4	288.8	311.3
16.8	75°	30.8	70.1	115.0	157.0	193.5	218.7	238.4	258.0
8.4	77.5°	19.6	50.5	92.5	131.8	148.6	179.5	196.3	207.5
5.6	80°	11.2	39.3	81.3	106.6	120.6	140.2	157.0	171.1
5.6	82.5°	8.4	33.7	67.3	89.7	89.7	112.2	120.6	120.6
2.8	85°	5.6	28.0	53.3	84.1	67.3	84.1	78.5	78.5
2.8	87.5°	5.6	19.6	25.2	36.5	30.8	36.5	36.5	42.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
255751.4
247565.8
236085.1
216744.1
193028.5
167072.3
142215.3
118129.5
97420.0
79220.4
64043.7
40117.8
25824.4
17392.0
11674.1
7689.3
5028.0
3449.2
2507.0
1934.9
1559.2
1312.4
1138.5
1009.5
897.4
807.6
737.5
681.4
639.4
597.3
566.5
535.6
485.1
431.9
378.6
316.9
258.0
201.9
154.2
112.2
75.7
42.1
0.0

(END OF REPORT)