

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: P637100

Luminaire Tested: **IFLD-M-SA4A-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637100
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18113.8 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

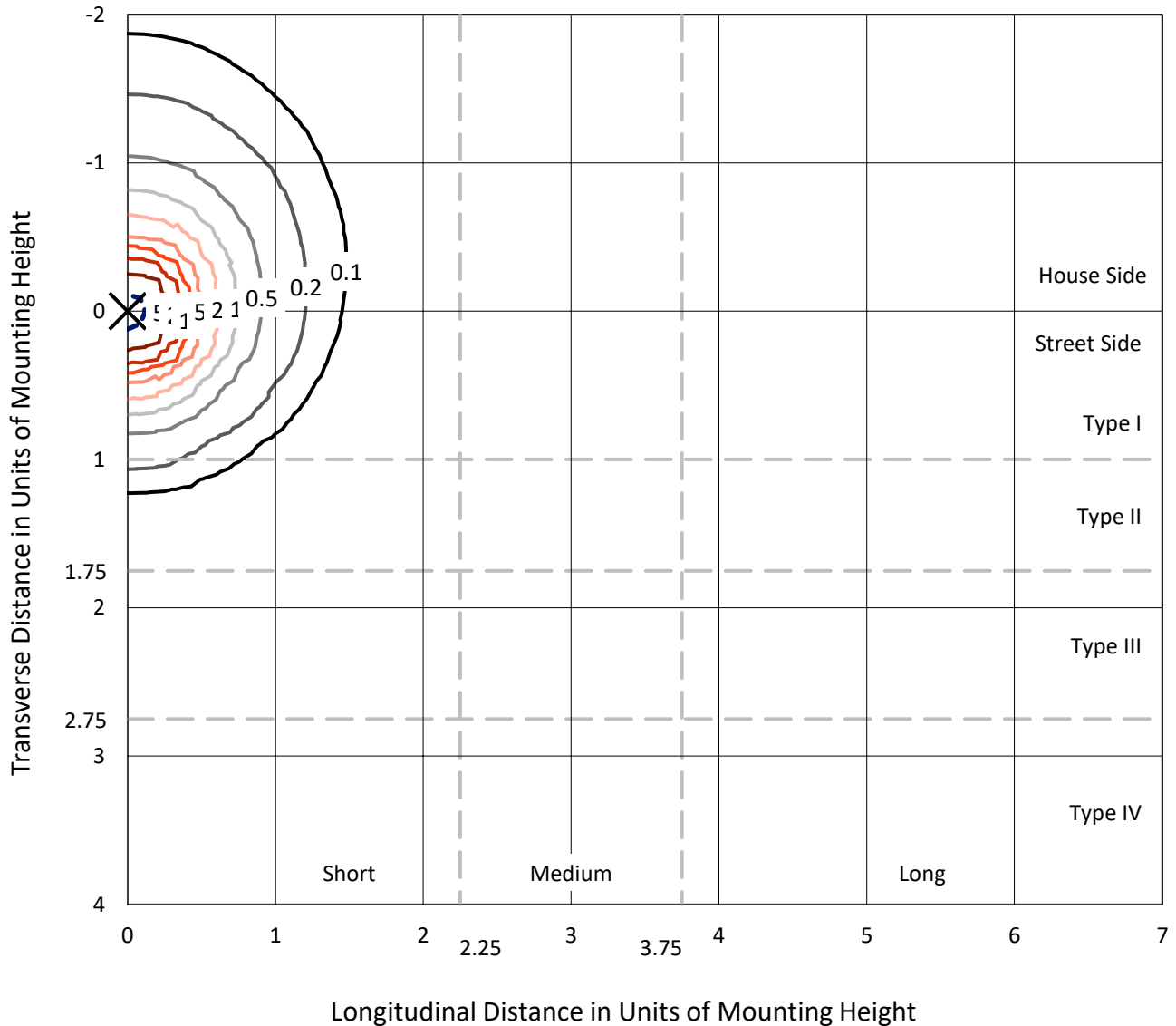
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

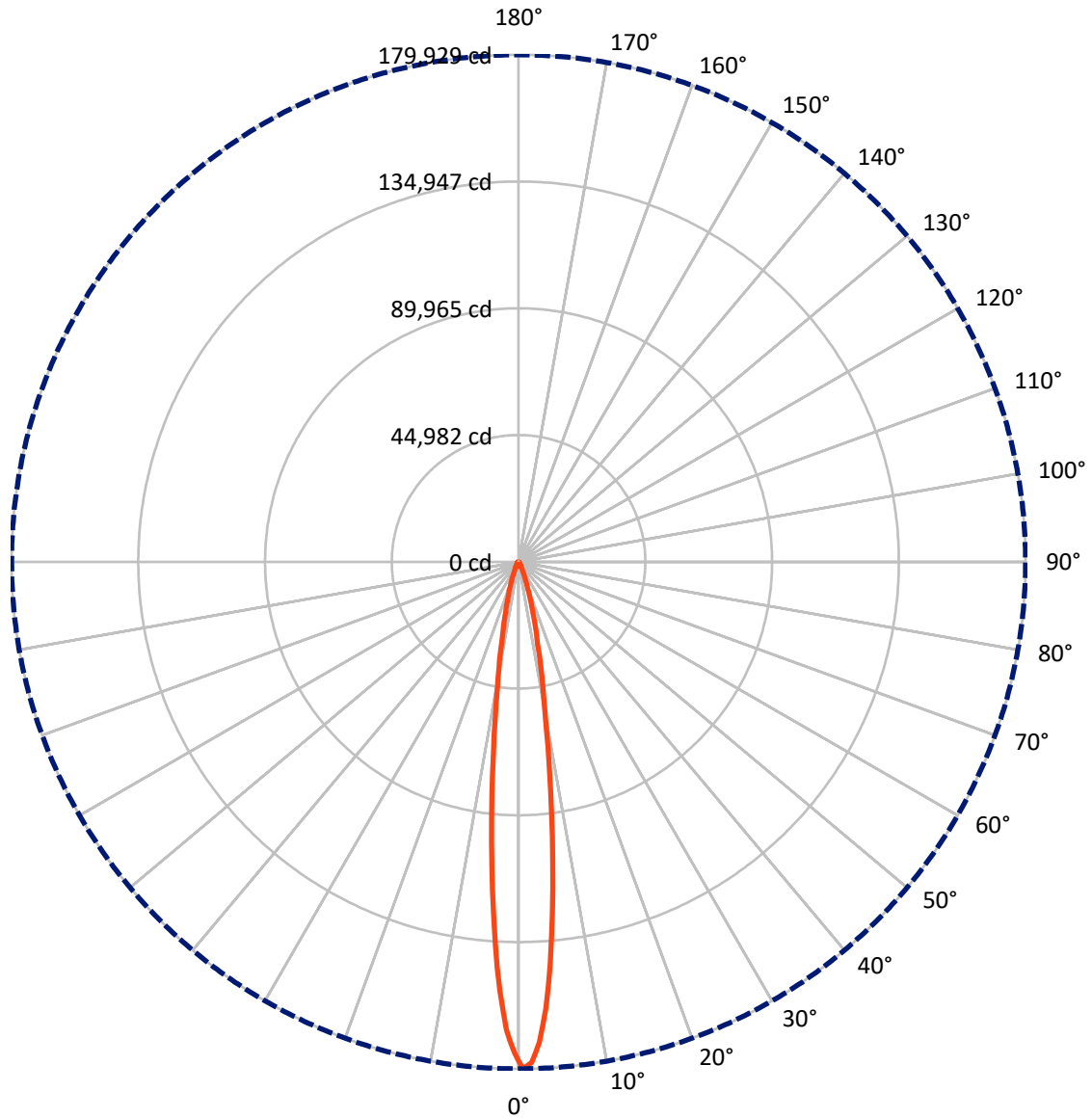
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 449.8 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	9277.6	0.0	9277.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8836.3	0.0	8836.3
	% Fixture	48.8	0.0	48.8
Total	Lumens	18113.8	0.0	18113.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9144.4	50.5
10°-20°	5854.2	32.3
20°-30°	1759.7	9.7
30°-40°	573.0	3.2
40°-50°	333.4	1.8
50°-60°	221.4	1.2
60°-70°	133.3	0.7
70°-80°	68.5	0.4
80°-90°	26.0	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°	18113.8	100.0
0°-180°	18113.8	100.0

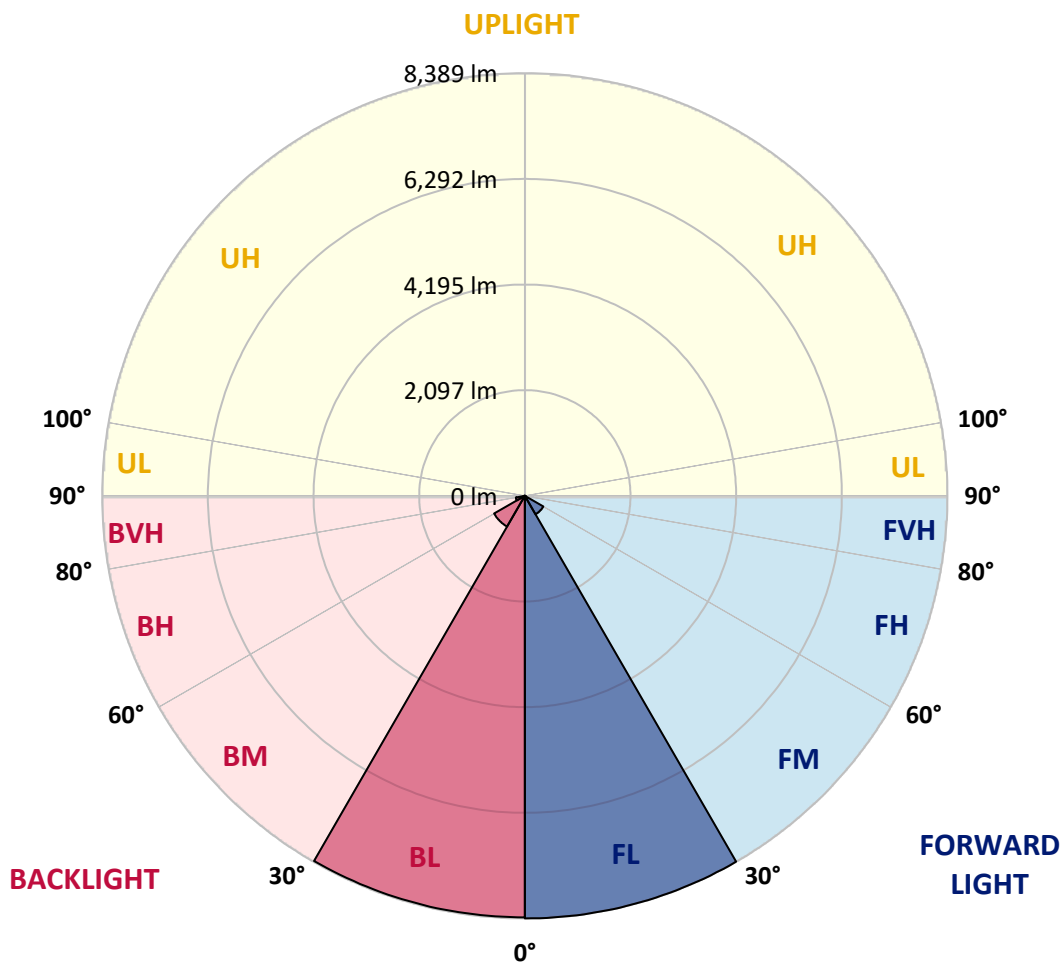


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8389.1	46.3			
FM (30°-60°)	423.3	2.3			
FH (60°-80°)	19.9	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	8369.2	46.2	B5		
BM (30°-60°)	704.4	3.9	B1/1000		
BH (60°-80°)	181.9	1.0	B1/500		G0/660
BVH (80°-90°)	22.1	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°	179929.3	179929.3	179929.3	179929.3	179929.3	179929.3	179929.3	179929.3	179929.3	179929.3
1°	177774.9	177232.3	175831.6	176827.9	177703.9	177449.4	177431.6	177336.9	177204.7	178242.5
2°	170668.6	170317.4	168245.8	169100.1	170345.0	169437.5	170005.7	169506.5	169516.4	170755.4
3°	158689.2	158880.6	155576.0	157128.6	158858.8	156659.1	157341.7	158624.1	157280.5	156876.1
4°	143119.2	141458.0	139652.8	141231.1	141678.9	140398.5	141657.2	143227.7	141361.3	141444.2
5°	125343.4	124116.3	121979.7	122954.3	121843.5	122248.0	124134.1	124781.2	123479.1	121839.6
6°	107066.6	106194.6	103523.3	104928.0	104533.4	104304.6	106685.8	104713.0	105423.2	104430.8
7°	89058.1	87428.5	86116.5	87462.0	87548.8	86860.3	89951.8	89592.8	88300.5	88000.6
8°	73786.0	72160.3	71049.6	72051.8	72706.8	71625.7	73079.7	74034.6	73024.4	73115.2
9°	59512.1	59226.1	57681.3	58991.3	59703.5	58545.4	60155.3	60500.6	59555.5	60015.2
10°	48864.5	48531.1	47298.0	47828.7	49008.5	47627.5	49172.2	49284.7	48531.1	48746.1
12.5°	30197.0	30062.9	30029.3	30106.3	30090.5	30335.1	30729.7	30279.9	30220.7	29476.9
15°	19517.8	19717.0	19511.9	19906.4	19963.6	20194.5	19953.8	19590.8	18898.3	18555.0
17.5°	12180.6	12435.1	12786.3	13364.3	13942.4	14009.5	13689.9	13263.7	12928.3	12561.4
20°	7007.7	7132.0	7078.7	7771.2	9266.7	9673.1	9260.7	8812.9	8408.4	8037.5
22.5°	4354.2	4308.8	4391.6	4624.4	5111.8	6368.5	6031.1	5583.3	5289.3	4983.5
25°	2669.3	2718.6	2687.1	2815.3	3034.3	3567.0	3643.9	3450.6	3300.6	3142.8
27.5°	1718.4	1718.4	1732.2	1803.2	1953.2	1935.4	2345.8	2195.8	2114.9	2038.0
30°	1193.6	1197.5	1197.5	1239.0	1272.5	1213.3	1319.9	1513.2	1475.7	1416.5
32.5°	885.8	897.7	907.5	929.2	901.6	838.5	864.1	1089.0	1067.3	1045.6
35°	674.7	684.6	708.3	720.1	680.6	641.2	617.5	801.0	810.9	804.9
37.5°	491.2	497.2	540.6	585.9	540.6	505.1	491.2	615.5	662.9	657.0
40°	376.8	378.8	386.7	438.0	438.0	410.4	414.3	459.7	542.5	542.5
42.5°	323.6	323.6	331.4	323.6	325.5	355.1	365.0	370.9	459.7	459.7
45°	280.1	280.1	284.1	264.4	244.6	305.8	313.7	315.7	386.7	396.6
47.5°	234.8	234.8	242.7	217.0	207.2	242.7	264.4	270.3	333.4	341.3
50°	173.6	175.6	199.3	177.6	183.5	187.4	228.9	232.8	282.1	299.9
52.5°	116.4	116.4	120.3	138.1	159.8	153.9	185.5	199.3	224.9	248.6
55°	94.7	94.7	92.7	88.8	118.4	128.2	136.1	165.7	183.5	213.1
57.5°	65.1	69.1	63.1	73.0	76.9	96.7	102.6	130.2	140.1	179.5
60°	7.9	9.9	13.8	53.3	51.3	65.1	76.9	102.6	114.4	138.1
62.5°	2.0	2.0	3.9	9.9	35.5	43.4	61.2	71.0	82.9	106.5
65°	0.0	0.0	2.0	3.9	7.9	23.7	31.6	41.4	59.2	75.0
67.5°	0.0	0.0	2.0	3.9	3.9	9.9	15.8	25.6	31.6	55.2
70°	0.0	0.0	2.0	3.9	3.9	7.9	9.9	11.8	21.7	29.6
72.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.9	9.9	9.9	19.7
75°	0.0	0.0	2.0	3.9	5.9	7.9	9.9	9.9	7.9	7.9
77.5°	0.0	0.0	2.0	3.9	7.9	9.9	11.8	9.9	5.9	5.9
80°	0.0	0.0	2.0	5.9	9.9	13.8	15.8	11.8	5.9	3.9
82.5°	0.0	0.0	3.9	7.9	11.8	15.8	21.7	17.8	7.9	3.9
85°	0.0	0.0	2.0	5.9	11.8	15.8	31.6	21.7	9.9	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	3.9	11.8	7.9	3.9	2.0
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°
179929.3	0°	179929.3	179929.3	179929.3	179929.3	179929.3	179929.3	179929.3	179929.3
177044.9	1°	178281.9	178406.2	177999.8	178629.2	178408.2	177114.0	176685.9	176178.8
170027.4	2°	169506.5	170139.8	170171.4	170869.8	170859.9	169350.7	168883.1	169745.2
157696.8	3°	157219.4	157957.2	157292.4	158533.3	158160.4	156329.6	155854.1	156832.7
142099.2	4°	141675.0	141534.9	141306.1	140599.8	141469.8	140221.0	139279.9	140607.7
124013.7	5°	123765.1	123453.4	123007.5	122798.4	123445.5	122646.5	120711.1	122650.5
106226.2	6°	106356.4	105014.8	104949.7	104833.3	104898.4	102661.2	102795.3	104239.5
86968.8	7°	87888.2	88134.8	87631.7	88438.6	87823.1	86307.9	85723.9	87245.0
73513.7	8°	73000.8	72689.1	72304.3	73509.8	72442.4	71448.1	70767.5	71969.0
60090.2	9°	59977.7	59439.1	59048.5	58987.4	59153.1	57286.7	57665.5	58575.0
48864.5	10°	48882.2	47998.4	48213.4	48270.6	48089.1	46865.9	46877.8	47191.5
29970.1	12.5°	29863.6	29429.6	29538.1	29597.3	29966.2	29536.1	28928.4	28490.5
18896.3	15°	18770.0	18458.3	19095.6	19523.7	19436.9	19054.1	18768.1	18371.5
12561.4	17.5°	12445.0	12853.4	12855.3	13246.0	13285.4	12902.7	12681.7	12324.6
8169.7	20°	8140.1	8309.8	8662.9	8939.2	9099.0	8807.0	8542.6	8298.0
5094.0	22.5°	5094.0	5389.9	5610.9	5970.0	6116.0	5902.9	5715.5	5516.2
3180.3	25°	3127.0	3338.1	3521.6	3833.3	4032.6	3930.0	3758.4	3618.3
2053.8	27.5°	2085.3	2174.1	2264.9	2479.9	2687.1	2629.9	2560.8	2476.0
1448.1	30°	1469.8	1477.7	1574.4	1694.7	1832.8	1868.3	1836.8	1793.4
1063.4	32.5°	1083.1	1114.7	1160.1	1235.0	1327.8	1412.6	1396.8	1377.1
812.8	35°	836.5	883.9	921.3	978.6	1027.9	1108.8	1122.6	1116.7
668.8	37.5°	682.6	724.0	761.5	795.1	836.5	891.7	935.1	937.1
552.4	40°	566.2	603.7	653.0	678.7	708.3	749.7	803.0	806.9
467.6	42.5°	477.4	513.0	562.3	593.8	615.5	655.0	708.3	716.2
400.5	45°	410.4	432.1	483.4	520.8	542.5	568.2	625.4	633.3
345.3	47.5°	357.1	378.8	410.4	463.6	483.4	507.0	552.4	566.2
305.8	50°	313.7	335.4	363.0	410.4	440.0	459.7	497.2	516.9
266.3	52.5°	278.2	299.9	329.5	367.0	400.5	418.3	453.8	479.4
217.0	55°	232.8	270.3	292.0	325.5	370.9	386.7	414.3	447.8
189.4	57.5°	203.2	234.8	266.3	294.0	339.3	359.1	386.7	418.3
149.9	60°	171.6	201.2	238.7	262.4	305.8	331.4	361.0	390.6
114.4	62.5°	136.1	175.6	201.2	234.8	276.2	309.7	333.4	363.0
88.8	65°	100.6	144.0	173.6	209.1	248.6	284.1	303.8	335.4
63.1	67.5°	73.0	112.5	148.0	181.5	219.0	254.5	274.2	301.9
39.5	70°	57.2	82.9	122.3	151.9	191.4	221.0	242.7	260.4
25.6	72.5°	33.5	63.1	98.6	132.2	167.7	187.4	203.2	219.0
11.8	75°	21.7	49.3	80.9	110.5	136.1	153.9	167.7	181.5
5.9	77.5°	13.8	35.5	65.1	92.7	104.6	126.3	138.1	146.0
3.9	80°	7.9	27.6	57.2	75.0	84.8	98.6	110.5	120.3
3.9	82.5°	5.9	23.7	47.3	63.1	63.1	78.9	84.8	84.8
2.0	85°	3.9	19.7	37.5	59.2	47.3	59.2	55.2	55.2
2.0	87.5°	3.9	13.8	17.8	25.6	21.7	25.6	25.6	29.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
179929.3
174170.4
166093.4
152486.4
135801.7
117540.7
100053.0
83107.9
68538.1
55734.1
45056.8
28224.1
18168.3
12235.8
8213.1
5409.7
3537.4
2426.7
1763.8
1361.3
1096.9
923.3
801.0
710.2
631.3
568.2
518.9
479.4
449.8
420.2
398.5
376.8
341.3
303.8
266.3
222.9
181.5
142.0
108.5
78.9
53.3
29.6
0.0

(END OF REPORT)