

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: P637143

Luminaire Tested: **IFLD-S-SA2A-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637143
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9391.5 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

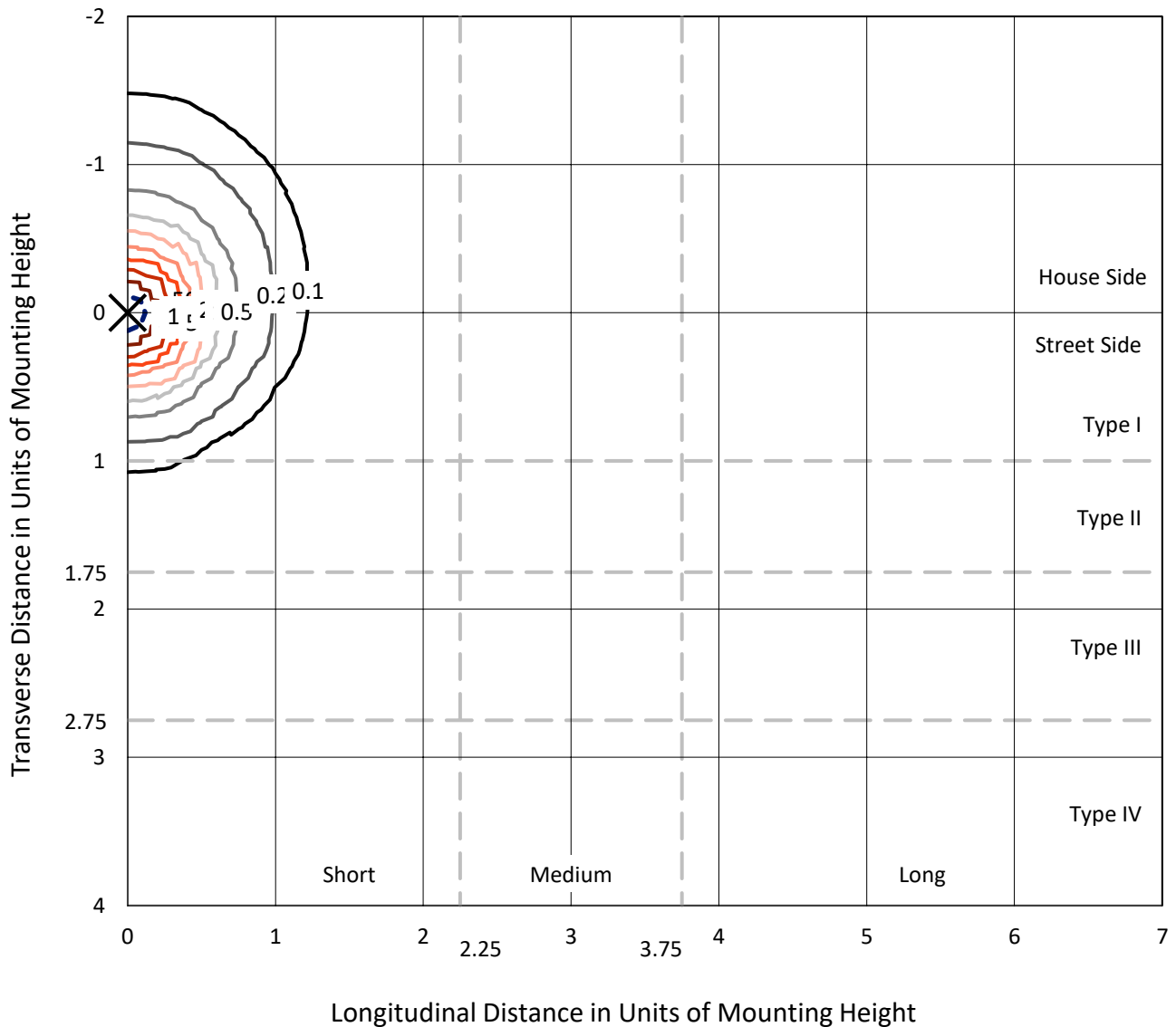
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

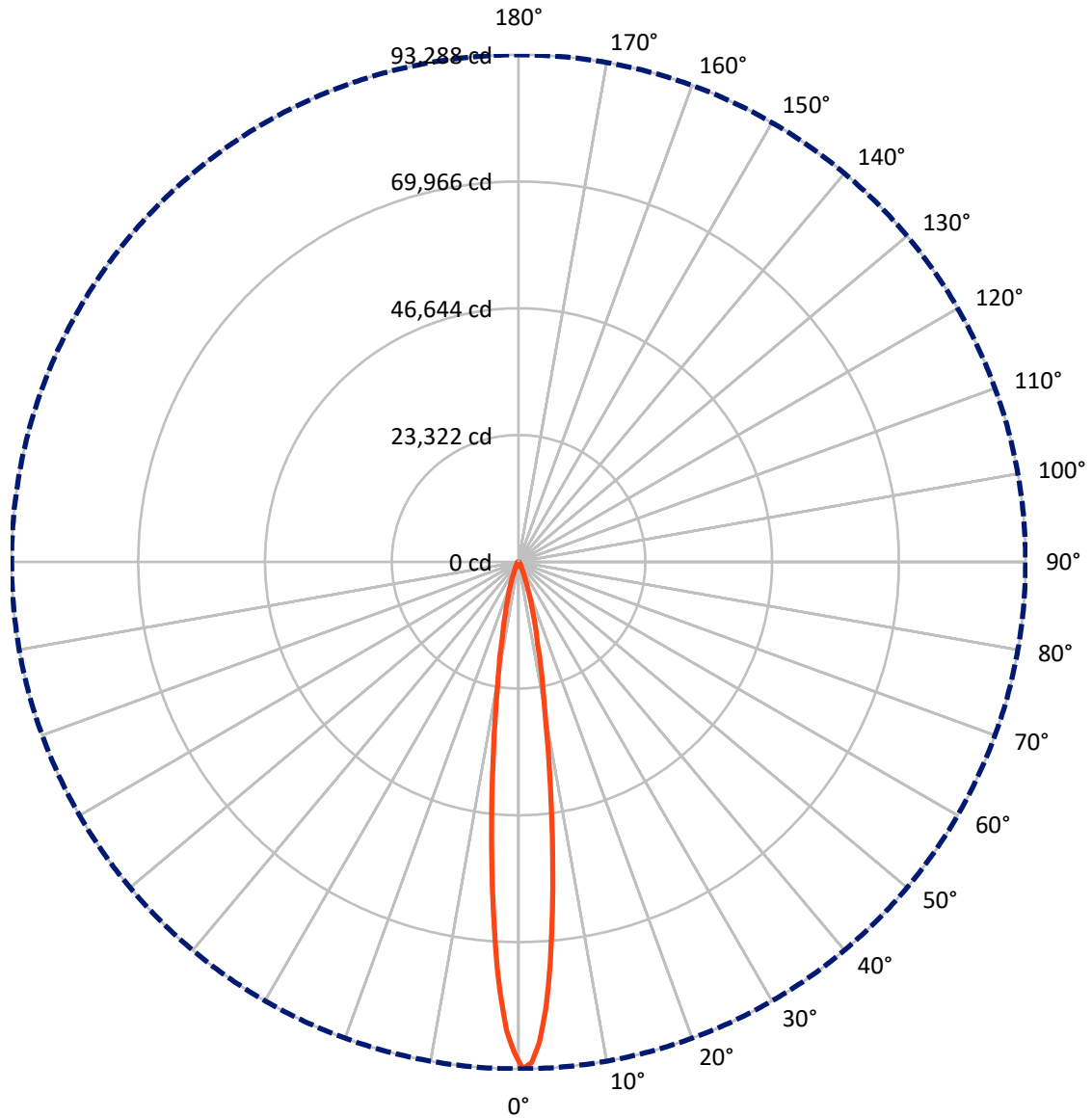
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 233.2 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	4810.2	0.0	4810.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	4581.3	0.0	4581.3
	% Fixture	48.8	0.0	48.8
Total	Lumens	9391.5	0.0	9391.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4741.1	50.5
10°-20°	3035.2	32.3
20°-30°	912.3	9.7
30°-40°	297.1	3.2
40°-50°	172.8	1.8
50°-60°	114.8	1.2
60°-70°	69.1	0.7
70°-80°	35.5	0.4
80°-90°	13.5	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°	9391.5	100.0
0°-180°	9391.5	100.0

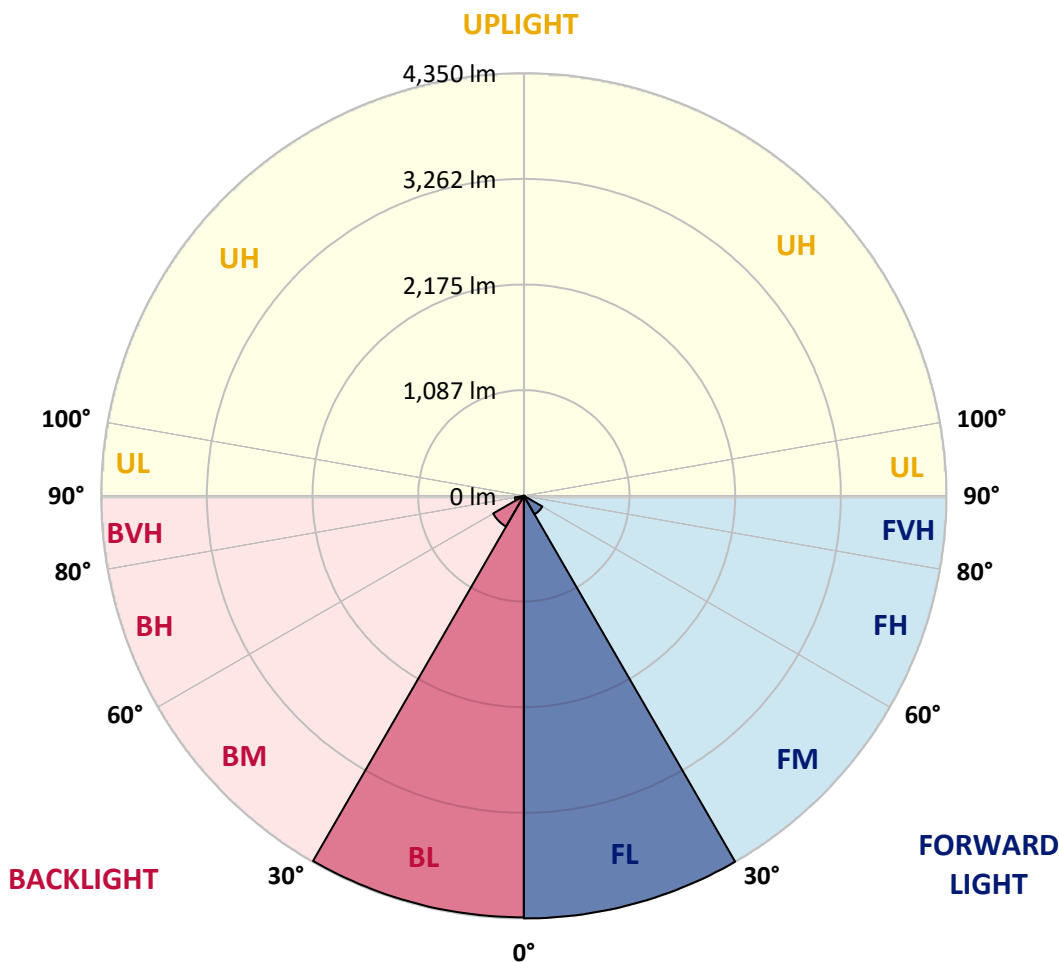


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4349.5	46.3			
FM (30°-60°)	219.5	2.3			
FH (60°-80°)	10.3	0.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	4339.2	46.2	B4/5000		
BM (30°-60°)	365.2	3.9	B1/1000		
BH (60°-80°)	94.3	1.0	B0/110		G0/660
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3
1°	92171.3	91890.0	91163.8	91680.3	92134.5	92002.5	91993.3	91944.2	91875.7	92413.7
2°	88486.9	88304.8	87230.8	87673.7	88319.1	87848.6	88143.2	87884.4	87889.5	88531.9
3°	82275.9	82375.1	80661.8	81466.8	82363.9	81223.3	81577.3	82242.1	81545.6	81335.9
4°	74203.3	73342.0	72406.1	73224.4	73456.6	72792.7	73445.3	74259.5	73291.9	73334.8
5°	64987.1	64350.8	63243.0	63748.3	63172.5	63382.2	64360.0	64695.5	64020.4	63170.4
6°	55511.0	55058.9	53673.9	54402.2	54197.7	54079.0	55313.6	54290.7	54659.0	54144.5
7°	46174.1	45329.2	44649.0	45346.6	45391.6	45034.6	46637.5	46451.3	45781.3	45625.9
8°	38256.0	37413.1	36837.2	37356.8	37696.4	37135.9	37889.8	38384.8	37861.1	37908.2
9°	30855.4	30707.1	29906.1	30585.3	30954.6	30354.2	31188.8	31367.8	30877.9	31116.2
10°	25334.9	25162.0	24522.7	24797.8	25409.5	24693.5	25494.4	25552.7	25162.0	25273.5
12.5°	15656.3	15586.7	15569.4	15609.3	15601.1	15727.9	15932.5	15699.3	15668.6	15283.0
15°	10119.4	10222.7	10116.3	10320.9	10350.6	10470.3	10345.5	10157.3	9798.2	9620.2
17.5°	6315.3	6447.3	6629.3	6929.0	7228.7	7263.5	7097.8	6876.9	6703.0	6512.7
20°	3633.3	3697.7	3670.1	4029.2	4804.5	5015.2	4801.4	4569.2	4359.5	4167.2
22.5°	2257.5	2234.0	2276.9	2397.6	2650.3	3301.9	3127.0	2894.8	2742.4	2583.8
25°	1384.0	1409.5	1393.2	1459.7	1573.2	1849.4	1889.3	1789.0	1711.3	1629.5
27.5°	890.9	890.9	898.1	934.9	1012.7	1003.5	1216.2	1138.5	1096.5	1056.6
30°	618.8	620.9	620.9	642.4	659.8	629.1	684.3	784.6	765.1	734.4
32.5°	459.3	465.4	470.5	481.8	467.5	434.7	448.0	564.6	553.4	542.1
35°	349.8	354.9	367.2	373.4	352.9	332.4	320.2	415.3	420.4	417.3
37.5°	254.7	257.8	280.3	303.8	280.3	261.9	254.7	319.1	343.7	340.6
40°	195.4	196.4	200.5	227.1	227.1	212.8	214.8	238.3	281.3	281.3
42.5°	167.8	167.8	171.8	167.8	168.8	184.1	189.2	192.3	238.3	238.3
45°	145.2	145.2	147.3	137.1	126.8	158.5	162.6	163.7	200.5	205.6
47.5°	121.7	121.7	125.8	112.5	107.4	125.8	137.1	140.1	172.9	177.0
50°	90.0	91.0	103.3	92.1	95.1	97.2	118.7	120.7	146.3	155.5
52.5°	60.4	60.4	62.4	71.6	82.9	79.8	96.2	103.3	116.6	128.9
55°	49.1	49.1	48.1	46.0	61.4	66.5	70.6	85.9	95.1	110.5
57.5°	33.8	35.8	32.7	37.8	39.9	50.1	53.2	67.5	72.6	93.1
60°	4.1	5.1	7.2	27.6	26.6	33.8	39.9	53.2	59.3	71.6
62.5°	1.0	1.0	2.0	5.1	18.4	22.5	31.7	36.8	43.0	55.2
65°	0.0	0.0	1.0	2.0	4.1	12.3	16.4	21.5	30.7	38.9
67.5°	0.0	0.0	1.0	2.0	2.0	5.1	8.2	13.3	16.4	28.6
70°	0.0	0.0	1.0	2.0	2.0	4.1	5.1	6.1	11.3	15.3
72.5°	0.0	0.0	1.0	2.0	3.1	4.1	5.1	5.1	5.1	10.2
75°	0.0	0.0	1.0	2.0	3.1	4.1	5.1	5.1	4.1	4.1
77.5°	0.0	0.0	1.0	2.0	4.1	5.1	6.1	5.1	3.1	3.1
80°	0.0	0.0	1.0	3.1	5.1	7.2	8.2	6.1	3.1	2.0
82.5°	0.0	0.0	2.0	4.1	6.1	8.2	11.3	9.2	4.1	2.0
85°	0.0	0.0	1.0	3.1	6.1	8.2	16.4	11.3	5.1	1.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	6.1	4.1	2.0	1.0
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°
93288.3	0°	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3	93288.3
91792.8	1°	92434.2	92498.6	92287.9	92614.2	92499.6	91828.6	91606.7	91343.8	90965.3
88154.4	2°	87884.4	88212.7	88229.1	88591.2	88586.1	87803.6	87561.1	88008.1	87135.6
81761.4	3°	81513.8	81896.4	81551.7	82195.1	82001.8	81052.5	80806.0	81313.4	80679.2
73674.4	4°	73454.5	73381.9	73263.2	72897.0	73348.1	72700.6	72212.7	72901.1	71544.8
64297.6	5°	64168.8	64007.1	63776.0	63667.5	64003.0	63588.8	62585.3	63590.8	61171.7
55075.3	6°	55142.8	54447.2	54413.5	54353.1	54386.9	53226.9	53296.5	54045.2	52032.2
45090.9	7°	45567.6	45695.4	45434.6	45852.9	45533.8	44748.2	44445.4	45234.1	43811.3
38114.8	8°	37848.9	37687.2	37487.8	38112.8	37559.4	37043.8	36690.9	37313.9	36257.2
31155.1	9°	31096.8	30817.5	30615.0	30583.3	30669.2	29701.6	29898.0	30369.5	29733.3
25334.9	10°	25344.1	24885.8	24997.3	25027.0	24932.9	24298.7	24304.8	24467.4	23702.3
15538.7	12.5°	15483.4	15258.4	15314.7	15345.3	15536.6	15313.6	14998.6	14771.5	14656.9
9797.2	15°	9731.7	9570.1	9900.5	10122.5	10077.5	9879.0	9730.7	9525.1	9359.4
6512.7	17.5°	6452.4	6664.1	6665.1	6867.7	6888.1	6689.7	6575.1	6390.0	6398.2
4235.8	20°	4220.4	4308.4	4491.5	4634.7	4717.6	4566.2	4429.1	4302.3	4249.1
2641.1	22.5°	2641.1	2794.5	2909.1	3095.3	3170.9	3060.5	2963.3	2860.0	2796.6
1648.9	25°	1621.3	1730.7	1825.9	1987.5	2090.8	2037.6	1948.6	1876.0	1842.2
1064.8	27.5°	1081.2	1127.2	1174.3	1285.8	1393.2	1363.5	1327.7	1283.7	1268.4
750.8	30°	762.1	766.1	816.3	878.7	950.3	968.7	952.3	929.8	912.4
551.3	32.5°	561.6	577.9	601.5	640.3	688.4	732.4	724.2	714.0	705.8
421.4	35°	433.7	458.3	477.7	507.4	532.9	574.9	582.0	579.0	572.8
346.8	37.5°	353.9	375.4	394.8	412.2	433.7	462.3	484.8	485.9	479.7
286.4	40°	293.6	313.0	338.6	351.9	367.2	388.7	416.3	418.4	416.3
242.4	42.5°	247.5	266.0	291.5	307.9	319.1	339.6	367.2	371.3	367.2
207.6	45°	212.8	224.0	250.6	270.0	281.3	294.6	324.3	328.3	327.3
179.0	47.5°	185.1	196.4	212.8	240.4	250.6	262.9	286.4	293.6	293.6
158.5	50°	162.6	173.9	188.2	212.8	228.1	238.3	257.8	268.0	268.0
138.1	52.5°	144.2	155.5	170.8	190.3	207.6	216.9	235.3	248.6	248.6
112.5	55°	120.7	140.1	151.4	168.8	192.3	200.5	214.8	232.2	232.2
98.2	57.5°	105.4	121.7	138.1	152.4	175.9	186.2	200.5	216.9	218.9
77.7	60°	89.0	104.3	123.8	136.0	158.5	171.8	187.2	202.5	206.6
59.3	62.5°	70.6	91.0	104.3	121.7	143.2	160.6	172.9	188.2	194.3
46.0	65°	52.2	74.7	90.0	108.4	128.9	147.3	157.5	173.9	178.0
32.7	67.5°	37.8	58.3	76.7	94.1	113.5	132.0	142.2	156.5	159.6
20.5	70°	29.7	43.0	63.4	78.8	99.2	114.6	125.8	135.0	138.1
13.3	72.5°	17.4	32.7	51.1	68.5	86.9	97.2	105.4	113.5	115.6
6.1	75°	11.3	25.6	41.9	57.3	70.6	79.8	86.9	94.1	95.1
3.1	77.5°	7.2	18.4	33.8	48.1	54.2	65.5	71.6	75.7	73.6
2.0	80°	4.1	14.3	29.7	38.9	44.0	51.1	57.3	62.4	57.3
2.0	82.5°	3.1	12.3	24.5	32.7	32.7	40.9	44.0	44.0	41.9
1.0	85°	2.0	10.2	19.4	30.7	24.5	30.7	28.6	28.6	28.6
1.0	87.5°	2.0	7.2	9.2	13.3	11.3	13.3	13.3	15.3	15.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
93288.3
90302.5
86114.8
79059.9
70409.4
60941.5
51874.7
43089.1
35535.1
28896.5
23360.7
14633.4
9419.8
6343.9
4258.3
2804.8
1834.0
1258.2
914.5
705.8
568.7
478.7
415.3
368.2
327.3
294.6
269.0
248.6
233.2
217.9
206.6
195.4
177.0
157.5
138.1
115.6
94.1
73.6
56.3
40.9
27.6
15.3
0.0

(END OF REPORT)