

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: P637216

Luminaire Tested: **IFLD-M-SA4A-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637216
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13500.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

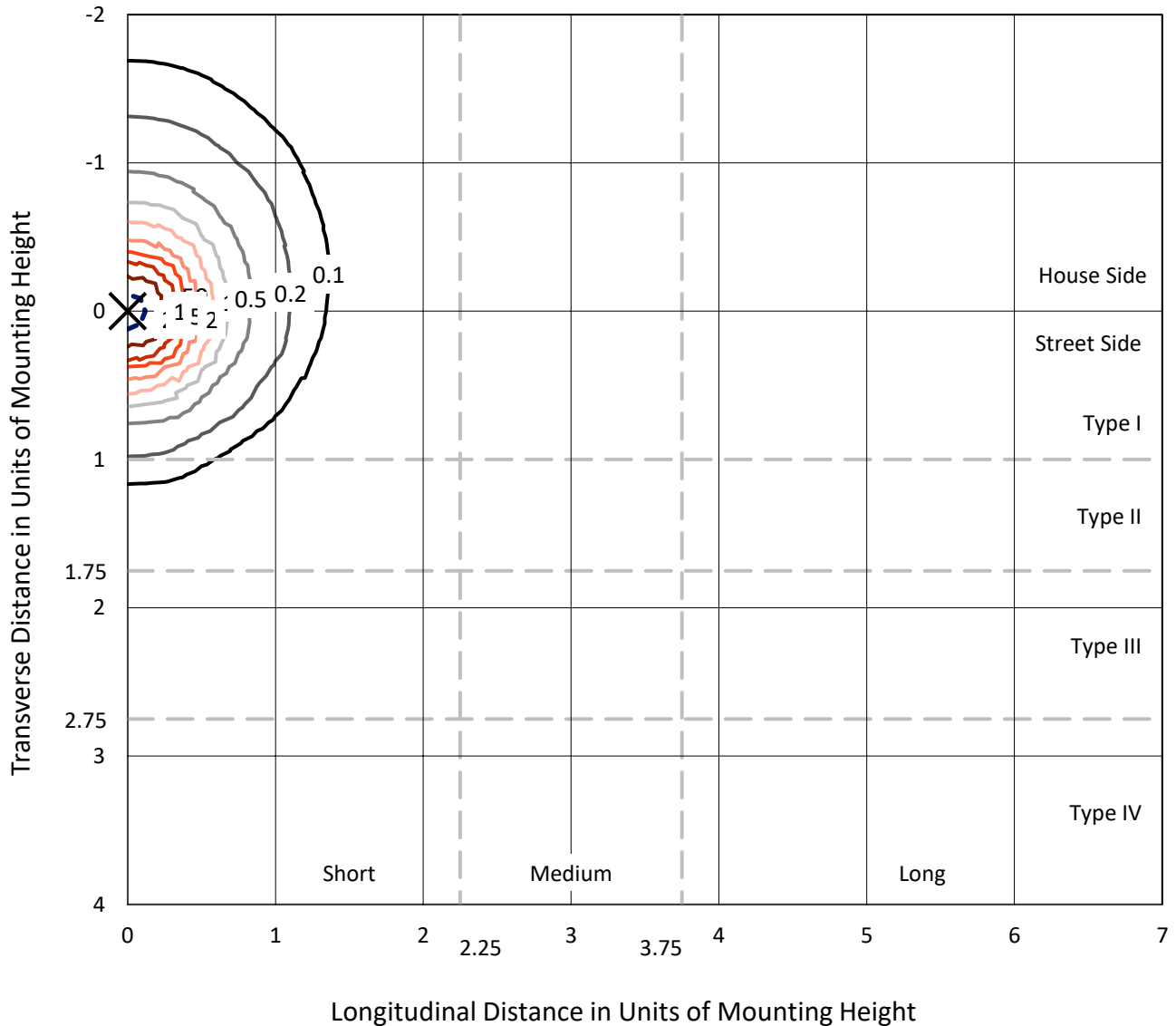
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

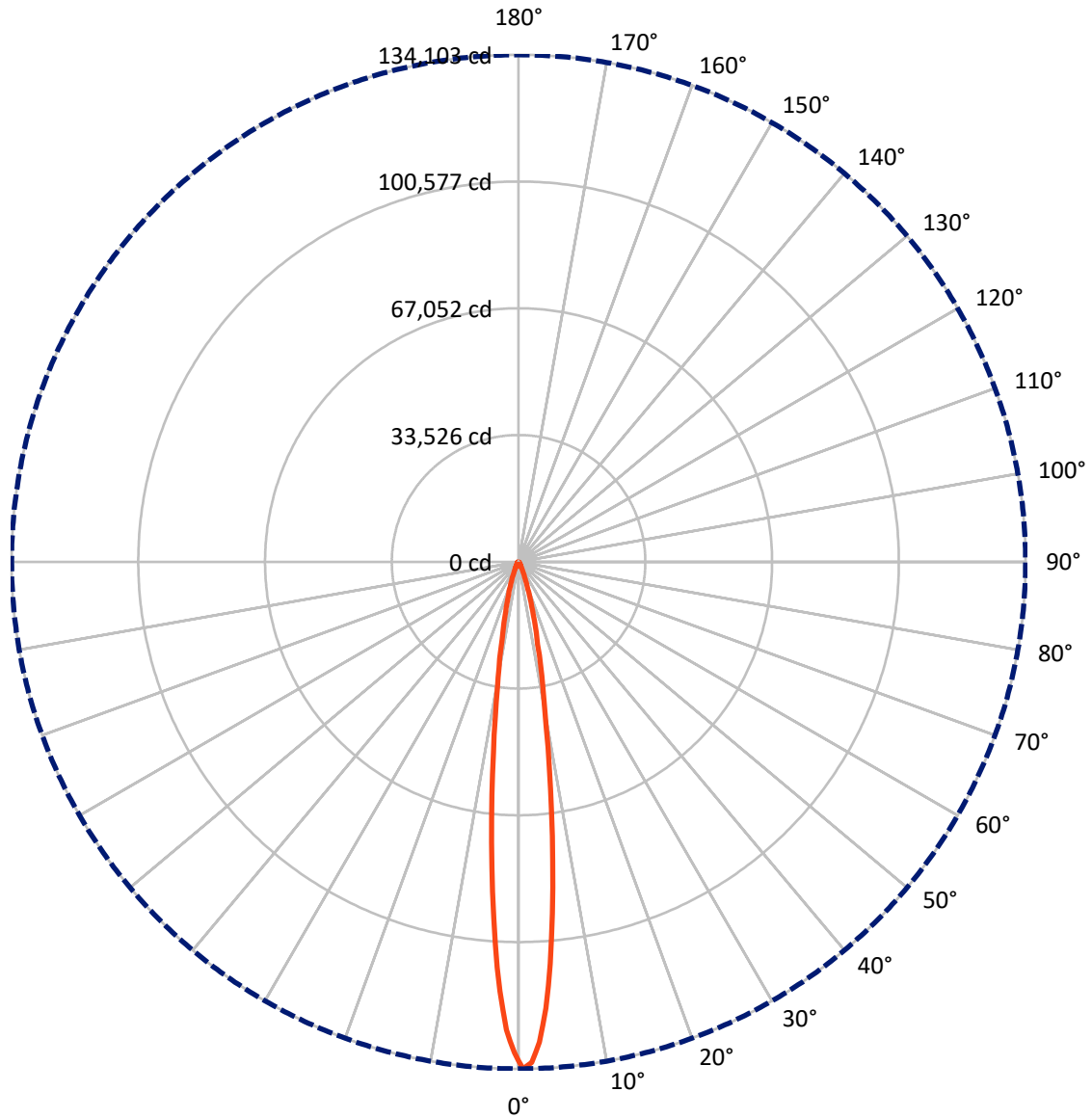
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 335.3 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	6914.7	0.0	6914.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6585.8	0.0	6585.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	13500.5	0.0	13500.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6815.4	50.5
10°-20°	4363.2	32.3
20°-30°	1311.5	9.7
30°-40°	427.0	3.2
40°-50°	248.5	1.8
50°-60°	165.0	1.2
60°-70°	99.3	0.7
70°-80°	51.1	0.4
80°-90°	19.4	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°	13500.5	100.0
0°-180°	13500.5	100.0

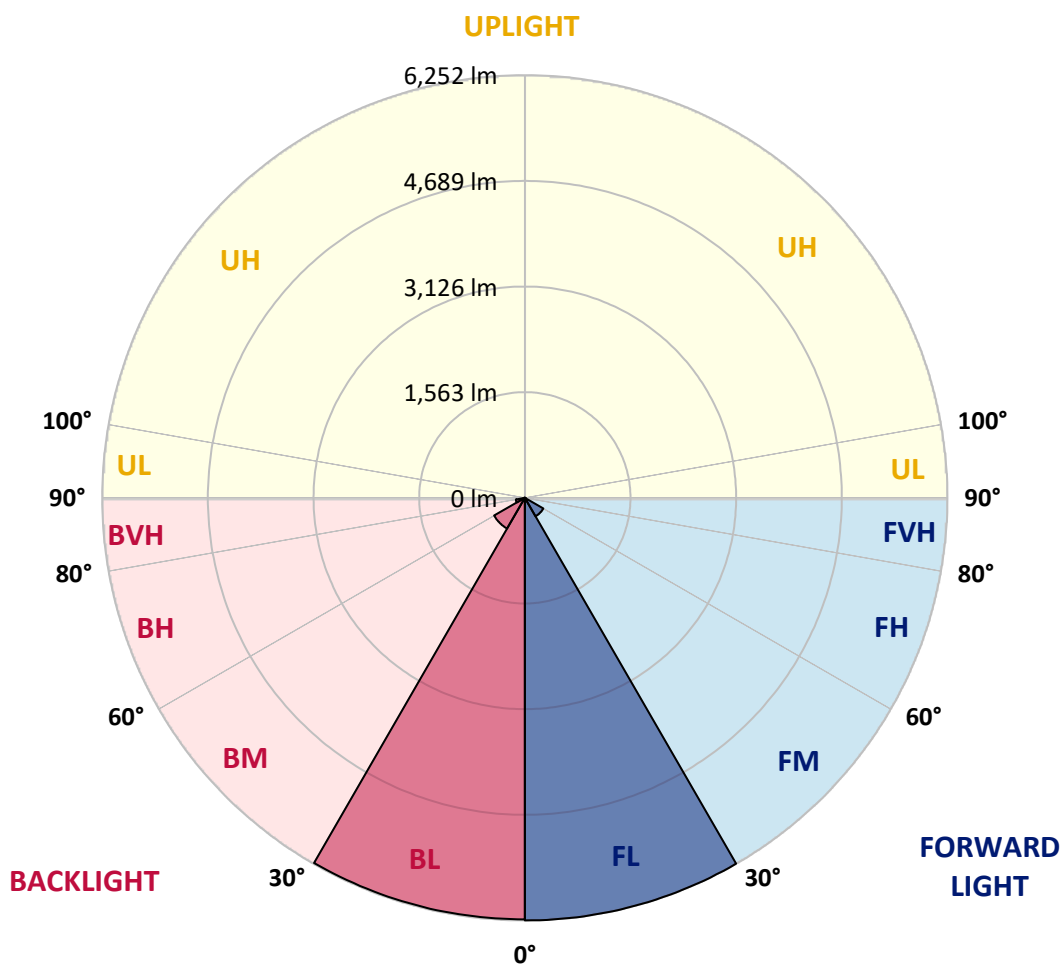


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6252.5	46.3			
FM (30°-60°)	315.5	2.3			
FH (60°-80°)	14.9	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	6237.7	46.2	B5		
BM (30°-60°)	525.0	3.9	B1/1000		
BH (60°-80°)	135.6	1.0	B1/500		G0/660
BVH (80°-90°)	16.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2
1°	132497.5	132093.2	131049.2	131791.7	132444.6	132254.9	132241.7	132171.1	132072.6	132846.0
2°	127201.1	126939.4	125395.4	126032.1	126960.0	126283.6	126707.0	126335.0	126342.4	127265.8
3°	118272.8	118415.4	115952.4	117109.7	118399.2	116759.7	117268.5	118224.2	117222.9	116921.4
4°	106668.2	105430.2	104084.7	105261.1	105594.8	104640.5	105578.7	106749.1	105358.1	105419.9
5°	93419.8	92505.2	90912.8	91639.1	90811.3	91112.7	92518.5	93000.7	92030.3	90808.4
6°	79797.9	79148.0	77157.0	78204.0	77909.9	77739.3	79514.1	78043.7	78573.0	77833.4
7°	66376.0	65161.4	64183.6	65186.4	65251.1	64737.9	67042.1	66774.4	65811.3	65587.8
8°	54993.5	53781.9	52954.0	53701.0	54189.2	53383.4	54467.1	55178.8	54425.9	54493.5
9°	44355.0	44141.8	42990.5	43966.9	44497.7	43634.5	44834.4	45091.7	44387.4	44730.0
10°	36419.2	36170.7	35251.7	35647.2	36526.6	35497.3	36648.6	36732.4	36170.7	36331.0
12.5°	22506.2	22406.2	22381.2	22438.5	22426.8	22609.1	22903.2	22567.9	22523.8	21969.5
15°	14546.8	14695.3	14542.4	14836.5	14879.1	15051.2	14871.8	14601.2	14085.1	13829.2
17.5°	9078.3	9268.0	9529.8	9960.6	10391.4	10441.4	10203.2	9885.6	9635.6	9362.1
20°	5222.9	5315.5	5275.8	5792.0	6906.5	7209.4	6902.1	6568.3	6266.9	5990.5
22.5°	3245.2	3211.4	3273.1	3446.7	3809.8	4746.5	4495.1	4161.3	3942.2	3714.3
25°	1989.5	2026.2	2002.7	2098.3	2261.5	2658.5	2715.9	2571.8	2460.0	2342.4
27.5°	1280.7	1280.7	1291.0	1344.0	1455.7	1442.5	1748.3	1636.6	1576.3	1518.9
30°	889.6	892.5	892.5	923.4	948.4	904.3	983.7	1127.8	1099.9	1055.8
32.5°	660.2	669.0	676.4	692.6	672.0	624.9	644.0	811.7	795.5	779.3
35°	502.9	510.2	527.9	536.7	507.3	477.9	460.2	597.0	604.3	599.9
37.5°	366.1	370.5	402.9	436.7	402.9	376.4	366.1	458.8	494.1	489.6
40°	280.8	282.3	288.2	326.4	326.4	305.8	308.8	342.6	404.4	404.4
42.5°	241.1	241.1	247.0	241.1	242.6	264.7	272.0	276.4	342.6	342.6
45°	208.8	208.8	211.7	197.0	182.3	227.9	233.8	235.3	288.2	295.6
47.5°	175.0	175.0	180.9	161.7	154.4	180.9	197.0	201.4	248.5	254.4
50°	129.4	130.9	148.5	132.3	136.7	139.7	170.6	173.5	210.3	223.5
52.5°	86.8	86.8	89.7	102.9	119.1	114.7	138.2	148.5	167.6	185.3
55°	70.6	70.6	69.1	66.2	88.2	95.6	101.5	123.5	136.7	158.8
57.5°	48.5	51.5	47.1	54.4	57.3	72.1	76.5	97.0	104.4	133.8
60°	5.9	7.4	10.3	39.7	38.2	48.5	57.3	76.5	85.3	102.9
62.5°	1.5	1.5	2.9	7.4	26.5	32.3	45.6	52.9	61.8	79.4
65°	0.0	0.0	1.5	2.9	5.9	17.6	23.5	30.9	44.1	55.9
67.5°	0.0	0.0	1.5	2.9	2.9	7.4	11.8	19.1	23.5	41.2
70°	0.0	0.0	1.5	2.9	2.9	5.9	7.4	8.8	16.2	22.1
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	7.4	7.4	14.7
75°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	7.4	5.9	5.9
77.5°	0.0	0.0	1.5	2.9	5.9	7.4	8.8	7.4	4.4	4.4
80°	0.0	0.0	1.5	4.4	7.4	10.3	11.8	8.8	4.4	2.9
82.5°	0.0	0.0	2.9	5.9	8.8	11.8	16.2	13.2	5.9	2.9
85°	0.0	0.0	1.5	4.4	8.8	11.8	23.5	16.2	7.4	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	8.8	5.9	2.9	1.5
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°
134103.2	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2	134103.2
131953.5	132875.4	132968.1	132665.2	133134.2	132969.5	132005.0	131685.9	131308.0	130763.9
126723.2	126335.0	126807.0	126830.6	127351.1	127343.7	126218.9	125870.4	126513.0	125258.7
117533.1	117177.3	117727.2	117231.7	118156.6	117878.7	116514.1	116159.8	116889.1	115977.4
105908.0	105591.9	105487.5	105316.9	104790.5	105439.0	104508.2	103806.8	104796.4	102846.6
92428.8	92243.5	92011.2	91678.8	91523.0	92005.3	91409.8	89967.3	91412.7	87935.2
79171.5	79268.6	78268.7	78220.1	78133.4	78181.9	76514.5	76614.5	77690.8	74797.0
64818.8	65504.0	65687.8	65312.9	65914.3	65455.5	64326.2	63891.0	65024.6	62979.3
54790.6	54408.3	54175.9	53889.2	54787.6	53992.1	53251.0	52743.8	53639.2	52120.3
44785.9	44702.1	44300.6	44009.5	43963.9	44087.4	42696.4	42978.7	43656.6	42742.0
36419.2	36432.4	35773.7	35934.0	35976.6	35841.3	34929.7	34938.5	35172.3	34072.4
22337.1	22257.7	21934.2	22015.0	22059.2	22334.1	22013.6	21560.7	21234.2	21069.6
14083.6	13989.5	13757.2	14232.1	14551.2	14486.5	14201.3	13988.0	13692.5	13454.3
9362.1	9275.4	9579.7	9581.2	9872.4	9901.8	9616.5	9451.8	9185.7	9197.4
6089.0	6066.9	6193.4	6456.6	6662.4	6781.5	6563.9	6366.9	6184.6	6108.1
3796.6	3796.6	4017.2	4181.9	4449.5	4558.3	4399.5	4259.8	4111.3	4020.1
2370.3	2330.6	2487.9	2624.7	2857.0	3005.5	2929.1	2801.1	2696.7	2648.2
1530.7	1554.2	1620.4	1688.0	1848.3	2002.7	1960.1	1908.6	1845.4	1823.3
1079.3	1095.5	1101.3	1173.4	1263.1	1366.0	1392.5	1369.0	1336.6	1311.6
792.6	807.3	830.8	864.6	920.5	989.6	1052.8	1041.1	1026.3	1014.6
605.8	623.5	658.7	686.7	729.3	766.1	826.4	836.7	832.3	823.4
498.5	508.8	539.6	567.6	592.6	623.5	664.6	697.0	698.4	689.6
411.7	422.0	449.9	486.7	505.8	527.9	558.8	598.5	601.4	598.5
348.5	355.8	382.3	419.1	442.6	458.8	488.2	527.9	533.8	527.9
298.5	305.8	322.0	360.3	388.2	404.4	423.5	466.1	472.0	470.5
257.3	266.1	282.3	305.8	345.5	360.3	377.9	411.7	422.0	422.0
227.9	233.8	250.0	270.6	305.8	327.9	342.6	370.5	385.2	385.2
198.5	207.3	223.5	245.6	273.5	298.5	311.7	338.2	357.3	357.3
161.7	173.5	201.4	217.6	242.6	276.4	288.2	308.8	333.8	333.8
141.2	151.5	175.0	198.5	219.1	252.9	267.6	288.2	311.7	314.7
111.8	127.9	150.0	177.9	195.6	227.9	247.0	269.1	291.1	297.0
85.3	101.5	130.9	150.0	175.0	205.9	230.9	248.5	270.6	279.4
66.2	75.0	107.3	129.4	155.9	185.3	211.7	226.4	250.0	255.9
47.1	54.4	83.8	110.3	135.3	163.2	189.7	204.4	225.0	229.4
29.4	42.6	61.8	91.2	113.2	142.6	164.7	180.9	194.1	198.5
19.1	25.0	47.1	73.5	98.5	125.0	139.7	151.5	163.2	166.2
8.8	16.2	36.8	60.3	82.3	101.5	114.7	125.0	135.3	136.7
4.4	10.3	26.5	48.5	69.1	77.9	94.1	102.9	108.8	105.9
2.9	5.9	20.6	42.6	55.9	63.2	73.5	82.3	89.7	82.3
2.9	4.4	17.6	35.3	47.1	47.1	58.8	63.2	63.2	60.3
1.5	2.9	14.7	27.9	44.1	35.3	44.1	41.2	41.2	41.2
1.5	2.9	10.3	13.2	19.1	16.2	19.1	19.1	22.1	22.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
134103.2
129811.1
123791.2
113649.8
101214.5
87604.3
74570.6
61941.2
51082.2
41539.2
33581.3
21035.7
13541.0
9119.5
6121.3
4031.9
2636.5
1808.6
1314.6
1014.6
817.6
688.2
597.0
529.3
470.5
423.5
386.7
357.3
335.3
313.2
297.0
280.8
254.4
226.4
198.5
166.2
135.3
105.9
80.9
58.8
39.7
22.1
0.0

(END OF REPORT)