

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: P637003

Luminaire Tested: **IFLD-S-SA3A-722-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637003
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10078.6 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

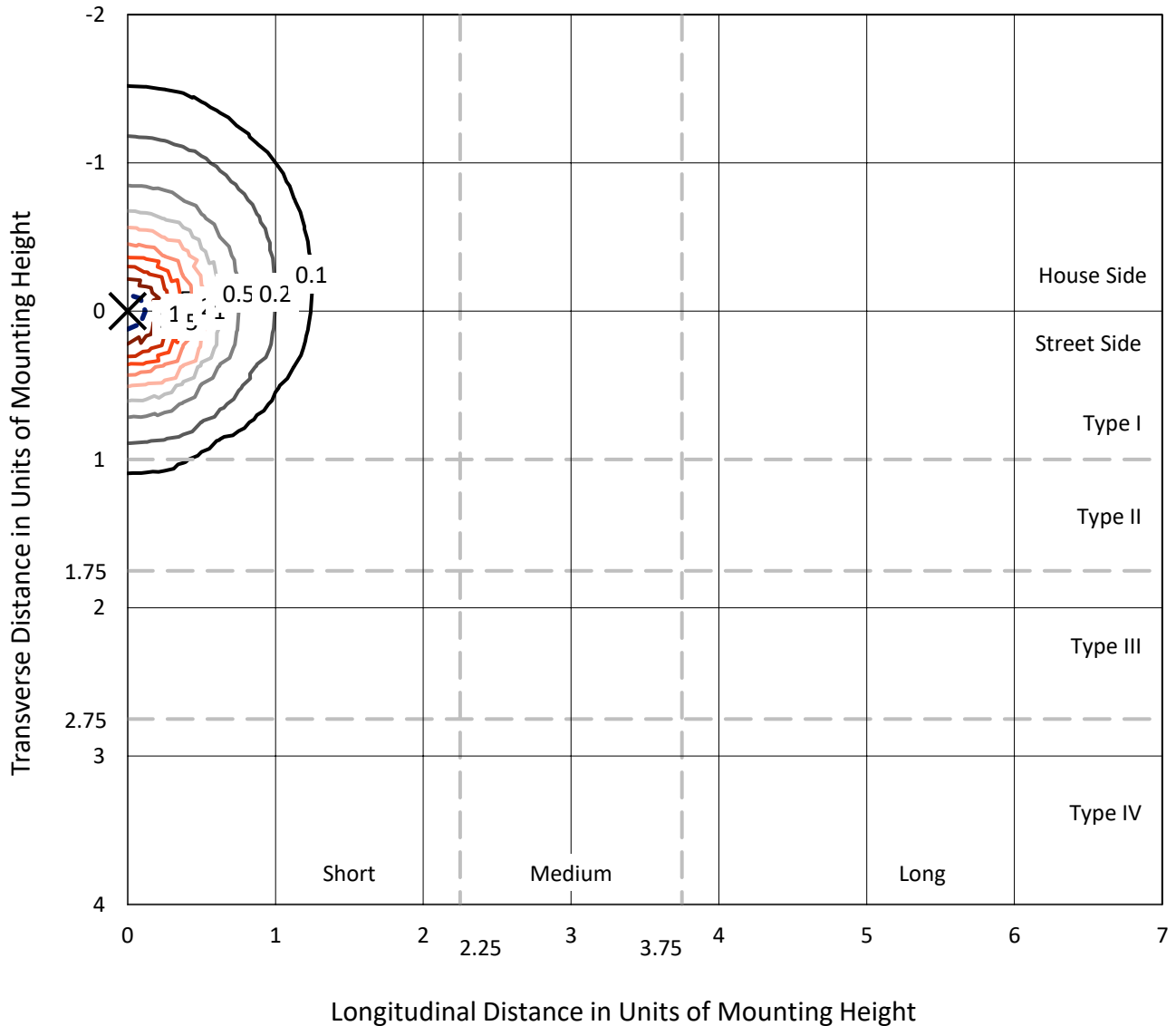
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

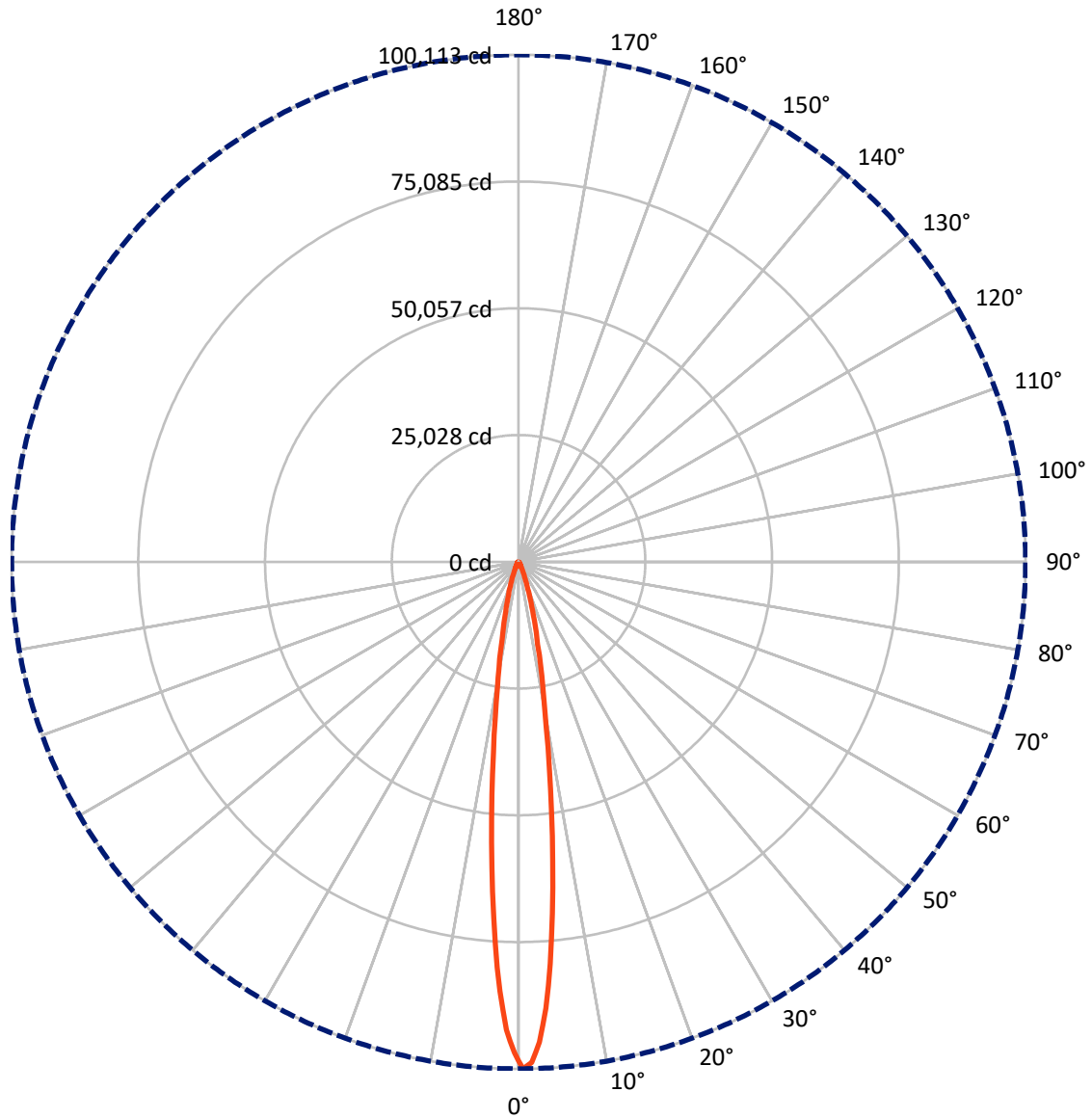
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 250.3 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	5162.1	0.0	5162.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	4916.5	0.0	4916.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	10078.6	0.0	10078.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5088.0	50.5
10°-20°	3257.3	32.3
20°-30°	979.1	9.7
30°-40°	318.8	3.2
40°-50°	185.5	1.8
50°-60°	123.2	1.2
60°-70°	74.2	0.7
70°-80°	38.1	0.4
80°-90°	14.5	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°	10078.6	100.0
0°-180°	10078.6	100.0

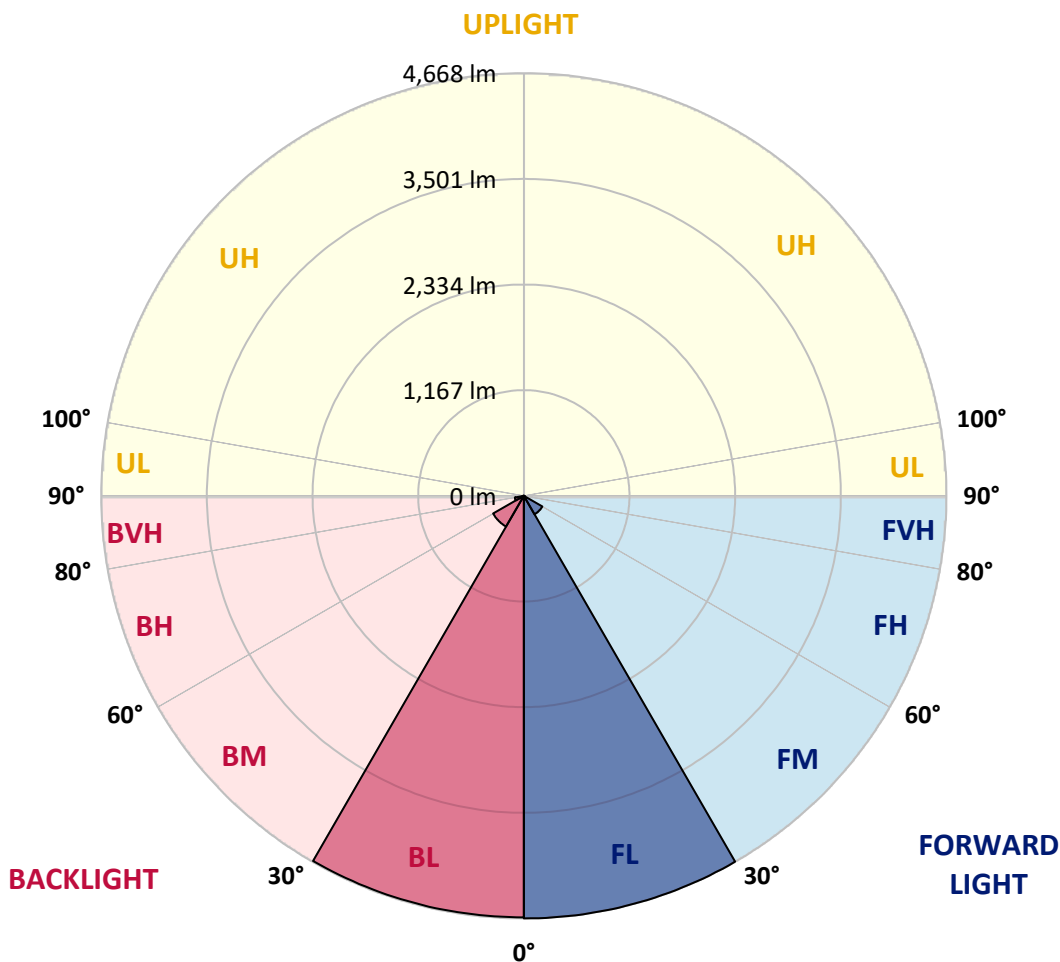


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4667.7	46.3			
FM (30°-60°)	235.5	2.3			
FH (60°-80°)	11.1	0.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	4656.7	46.2	B4/5000		
BM (30°-60°)	391.9	3.9	B1/1000		
BH (60°-80°)	101.2	1.0	B0/110		G0/660
BVH (80°-90°)	12.3	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°	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2
1°	98914.5	98612.6	97833.3	98387.6	98875.0	98733.4	98723.5	98670.8	98597.3	99174.7
2°	94960.5	94765.1	93612.5	94087.8	94780.5	94275.5	94591.7	94314.0	94319.5	95008.8
3°	88295.2	88401.6	86563.0	87426.9	88389.6	87165.6	87545.4	88258.9	87511.4	87286.4
4°	79631.9	78707.7	77703.3	78581.4	78830.6	78118.2	78818.5	79692.3	78653.9	78700.0
5°	69741.5	69058.7	67869.9	68412.1	67794.1	68019.2	69068.6	69428.6	68704.1	67791.9
6°	59572.2	59087.0	57600.7	58382.3	58162.7	58035.4	59360.3	58262.6	58657.8	58105.6
7°	49552.2	48645.5	47915.5	48664.2	48712.5	48329.3	50049.5	49849.7	49130.7	48963.8
8°	41054.8	40150.2	39532.2	40089.9	40454.3	39852.7	40661.8	41193.1	40631.0	40681.5
9°	33112.7	32953.6	32094.1	32822.9	33219.2	32574.9	33470.6	33662.7	33136.9	33392.7
10°	27188.3	27002.8	26316.8	26612.0	27268.5	26500.1	27359.6	27422.2	27002.8	27122.5
12.5°	16801.7	16727.1	16708.4	16751.2	16742.4	16878.6	17098.1	16847.8	16814.9	16401.0
15°	10859.8	10970.6	10856.5	11076.0	11107.8	11236.3	11102.3	10900.4	10515.1	10324.1
17.5°	6777.3	6918.9	7114.3	7436.0	7757.6	7794.9	7617.1	7380.0	7193.4	6989.2
20°	3899.1	3968.3	3938.6	4323.9	5156.0	5382.1	5152.7	4903.5	4678.5	4472.1
22.5°	2422.7	2397.4	2443.5	2573.1	2844.2	3543.4	3355.7	3106.5	2943.0	2772.8
25°	1485.2	1512.7	1495.1	1566.4	1688.3	1984.7	2027.5	1919.9	1836.5	1748.7
27.5°	956.1	956.1	963.8	1003.3	1086.7	1076.9	1305.2	1221.8	1176.8	1133.9
30°	664.1	666.3	666.3	689.4	708.0	675.1	734.4	842.0	821.1	788.2
32.5°	492.9	499.5	505.0	517.0	501.7	466.5	480.8	605.9	593.9	581.8
35°	375.4	380.9	394.1	400.7	378.7	356.8	343.6	445.7	451.2	447.9
37.5°	273.3	276.6	300.8	326.0	300.8	281.0	273.3	342.5	368.8	365.5
40°	209.7	210.8	215.2	243.7	243.7	228.3	230.5	255.8	301.9	301.9
42.5°	180.0	180.0	184.4	180.0	181.1	197.6	203.1	206.4	255.8	255.8
45°	155.9	155.9	158.1	147.1	136.1	170.1	174.5	175.6	215.2	220.6
47.5°	130.6	130.6	135.0	120.7	115.3	135.0	147.1	150.4	185.5	189.9
50°	96.6	97.7	110.9	98.8	102.1	104.3	127.3	129.5	157.0	166.9
52.5°	64.8	64.8	67.0	76.8	88.9	85.6	103.2	110.9	125.1	138.3
55°	52.7	52.7	51.6	49.4	65.9	71.4	75.7	92.2	102.1	118.6
57.5°	36.2	38.4	35.1	40.6	42.8	53.8	57.1	72.4	77.9	99.9
60°	4.4	5.5	7.7	29.6	28.5	36.2	42.8	57.1	63.7	76.8
62.5°	1.1	1.1	2.2	5.5	19.8	24.1	34.0	39.5	46.1	59.3
65°	0.0	0.0	1.1	2.2	4.4	13.2	17.6	23.1	32.9	41.7
67.5°	0.0	0.0	1.1	2.2	2.2	5.5	8.8	14.3	17.6	30.7
70°	0.0	0.0	1.1	2.2	2.2	4.4	5.5	6.6	12.1	16.5
72.5°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	5.5	5.5	11.0
75°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	5.5	4.4	4.4
77.5°	0.0	0.0	1.1	2.2	4.4	5.5	6.6	5.5	3.3	3.3
80°	0.0	0.0	1.1	3.3	5.5	7.7	8.8	6.6	3.3	2.2
82.5°	0.0	0.0	2.2	4.4	6.6	8.8	12.1	9.9	4.4	2.2
85°	0.0	0.0	1.1	3.3	6.6	8.8	17.6	12.1	5.5	1.1
87.5°	0.0	0.0	0.0	1.1	1.1	2.2	6.6	4.4	2.2	1.1
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°
100113.2	0°	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2	100113.2
98508.4	1°	99196.6	99265.8	99039.7	99389.8	99266.9	98546.8	98308.6	98026.5	97620.3
94603.8	2°	94314.0	94666.3	94683.9	95072.5	95067.0	94227.2	93967.1	94446.8	93510.4
87743.0	3°	87477.4	87887.9	87518.0	88208.4	88001.0	86982.3	86717.7	87262.2	86581.6
79064.4	4°	78828.4	78750.5	78623.1	78230.2	78714.3	78019.4	77495.8	78234.6	76779.0
69001.6	5°	68863.3	68689.9	68441.8	68325.4	68685.5	68240.9	67164.0	68243.1	65647.0
59104.6	6°	59177.0	58430.6	58394.3	58329.6	58365.8	57121.0	57195.6	57999.2	55838.9
48389.7	7°	48901.3	49038.5	48758.6	49207.5	48865.0	48022.0	47697.1	48543.4	47016.5
40903.3	8°	40617.9	40444.4	40230.4	40901.1	40307.2	39754.0	39375.2	40043.8	38909.8
33434.4	9°	33371.8	33072.1	32854.8	32820.7	32913.0	31874.5	32085.3	32591.3	31908.5
27188.3	10°	27198.2	26706.4	26826.1	26857.9	26756.9	26076.4	26082.9	26257.5	25436.4
16675.5	12.5°	16616.2	16374.7	16435.1	16468.0	16673.3	16434.0	16095.9	15852.2	15729.2
10514.0	15°	10443.7	10270.3	10624.8	10863.0	10814.7	10601.8	10442.6	10222.0	10044.1
6989.2	17.5°	6924.4	7151.7	7152.7	7370.1	7392.1	7179.1	7056.1	6857.5	6866.2
4545.7	20°	4529.2	4623.6	4820.1	4973.8	5062.7	4900.2	4753.1	4617.0	4559.9
2834.3	22.5°	2834.3	2999.0	3121.9	3321.7	3402.9	3284.4	3180.1	3069.2	3001.2
1769.5	25°	1739.9	1857.3	1959.4	2132.9	2243.7	2186.7	2091.2	2013.2	1977.0
1142.7	27.5°	1160.3	1209.7	1260.2	1379.8	1495.1	1463.3	1424.8	1377.6	1361.2
805.7	30°	817.8	822.2	876.0	942.9	1019.8	1039.5	1022.0	997.8	979.2
591.7	32.5°	602.6	620.2	645.5	687.2	738.8	786.0	777.2	766.2	757.4
452.3	35°	465.4	491.8	512.6	544.5	571.9	616.9	624.6	621.3	614.7
372.1	37.5°	379.8	402.9	423.7	442.4	465.4	496.2	520.3	521.4	514.8
307.4	40°	315.0	335.9	363.3	377.6	394.1	417.1	446.8	449.0	446.8
260.2	42.5°	265.6	285.4	312.9	330.4	342.5	364.4	394.1	398.5	394.1
222.8	45°	228.3	240.4	268.9	289.8	301.9	316.1	348.0	352.4	351.3
192.1	47.5°	198.7	210.8	228.3	258.0	268.9	282.1	307.4	315.0	315.0
170.1	50°	174.5	186.6	202.0	228.3	244.8	255.8	276.6	287.6	287.6
148.2	52.5°	154.8	166.9	183.3	204.2	222.8	232.7	252.5	266.7	266.7
120.7	55°	129.5	150.4	162.5	181.1	206.4	215.2	230.5	249.2	249.2
105.4	57.5°	113.1	130.6	148.2	163.6	188.8	199.8	215.2	232.7	234.9
83.4	60°	95.5	112.0	132.8	146.0	170.1	184.4	200.9	217.3	221.7
63.7	62.5°	75.7	97.7	112.0	130.6	153.7	172.3	185.5	202.0	208.6
49.4	65°	56.0	80.1	96.6	116.4	138.3	158.1	169.0	186.6	191.0
35.1	67.5°	40.6	62.6	82.3	101.0	121.8	141.6	152.6	168.0	171.2
22.0	70°	31.8	46.1	68.1	84.5	106.5	122.9	135.0	144.9	148.2
14.3	72.5°	18.7	35.1	54.9	73.5	93.3	104.3	113.1	121.8	124.0
6.6	75°	12.1	27.4	45.0	61.5	75.7	85.6	93.3	101.0	102.1
3.3	77.5°	7.7	19.8	36.2	51.6	58.2	70.3	76.8	81.2	79.0
2.2	80°	4.4	15.4	31.8	41.7	47.2	54.9	61.5	67.0	61.5
2.2	82.5°	3.3	13.2	26.3	35.1	35.1	43.9	47.2	47.2	45.0
1.1	85°	2.2	11.0	20.9	32.9	26.3	32.9	30.7	30.7	30.7
1.1	87.5°	2.2	7.7	9.9	14.3	12.1	14.3	14.3	16.5	16.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
100113.2
96909.0
92414.9
84843.9
75560.5
65400.0
55669.8
46241.5
38134.8
31010.6
25069.7
15704.0
10108.9
6808.1
4569.8
3010.0
1968.2
1350.2
981.4
757.4
610.3
513.7
445.7
395.2
351.3
316.1
288.7
266.7
250.3
233.8
221.7
209.7
189.9
169.0
148.2
124.0
101.0
79.0
60.4
43.9
29.6
16.5
0.0

(END OF REPORT)