

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: P637115

Luminaire Tested: **IFLD-S-SA2B-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637115
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11354.8 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

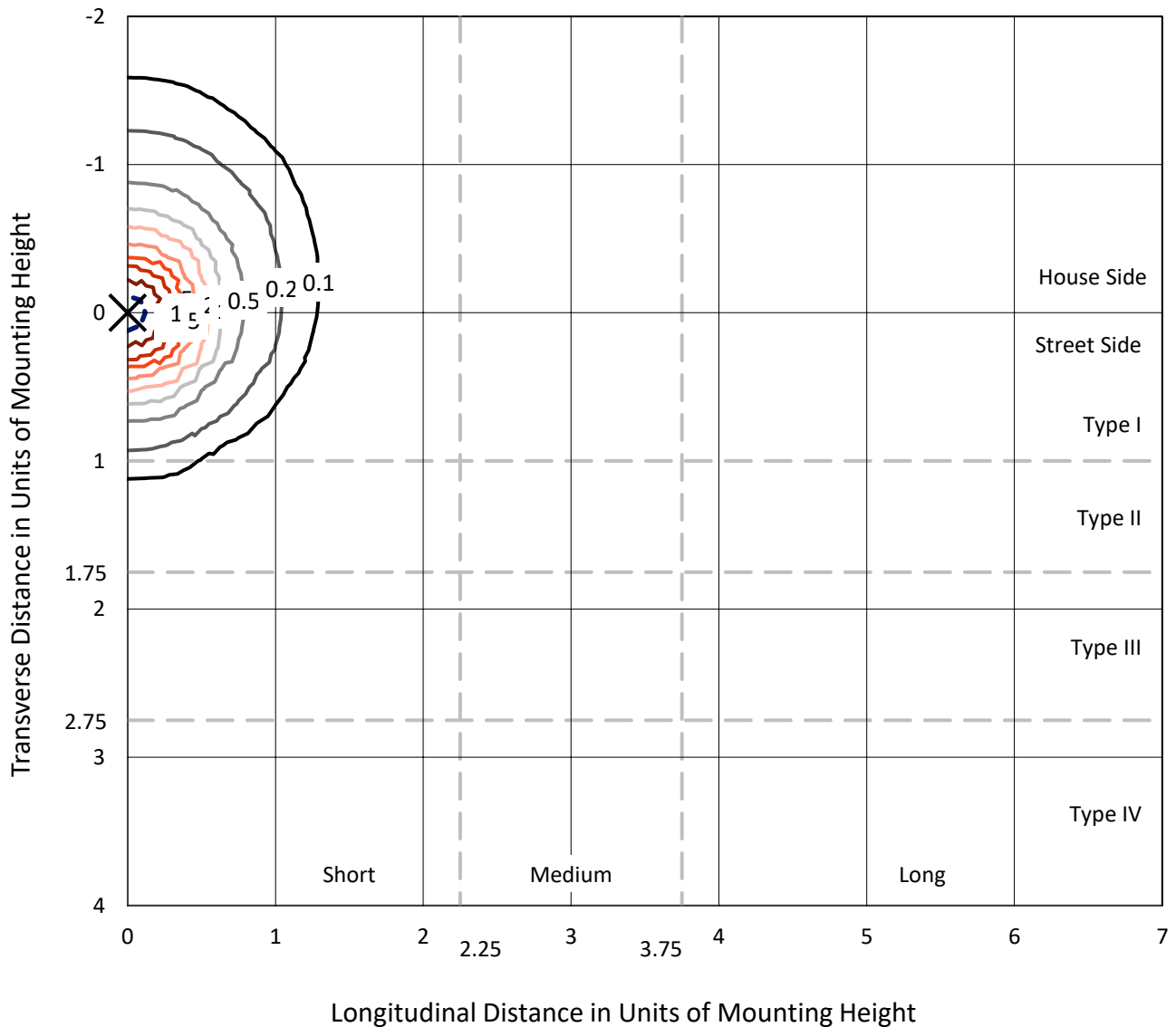
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

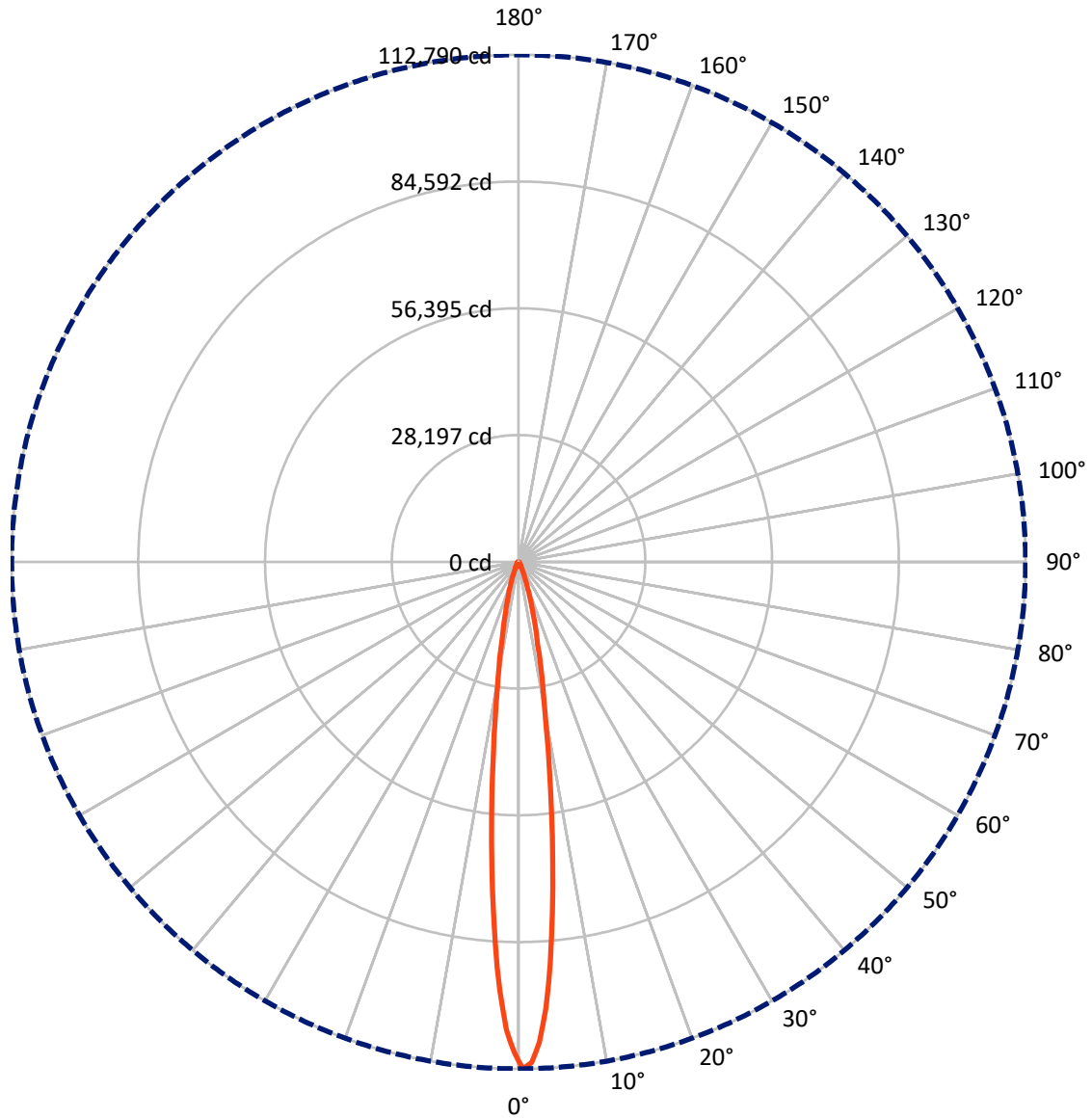
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 282 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	5815.7	0.0	5815.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	5539.1	0.0	5539.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	11354.8	0.0	11354.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5732.2	50.5
10°-20°	3669.7	32.3
20°-30°	1103.1	9.7
30°-40°	359.2	3.2
40°-50°	209.0	1.8
50°-60°	138.8	1.2
60°-70°	83.6	0.7
70°-80°	42.9	0.4
80°-90°	16.3	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°	11354.8	100.0
0°-180°	11354.8	100.0

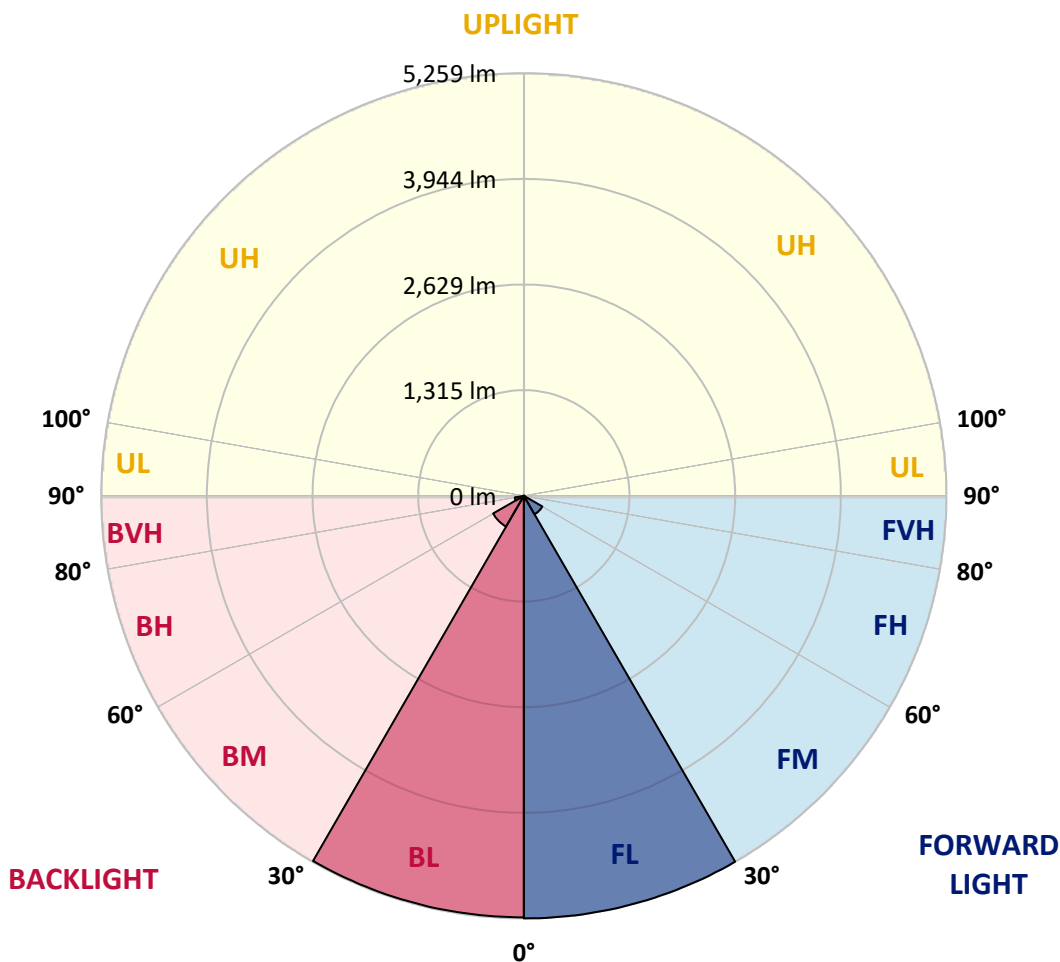


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5258.7	46.3			
FM (30°-60°)	265.4	2.3			
FH (60°-80°)	12.5	0.1			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	5246.3	46.2	B5		
BM (30°-60°)	441.6	3.9	B1/1000		
BH (60°-80°)	114.0	1.0	B1/500		G0/660
BVH (80°-90°)	13.9	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°	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6
1°	111439.1	111099.0	110221.0	110845.5	111394.6	111235.1	111223.9	111164.6	111081.7	111732.2
2°	106984.5	106764.3	105465.8	106001.3	106781.7	106212.8	106568.9	106256.1	106262.2	107038.9
3°	99475.1	99595.1	97523.6	98496.9	99581.5	98202.6	98630.5	99434.3	98592.1	98338.6
4°	89715.0	88673.7	87542.1	88531.5	88812.2	88009.6	88798.6	89783.0	88613.1	88665.0
5°	78572.2	77803.0	76463.6	77074.5	76378.3	76631.8	77814.1	78219.7	77403.5	76375.8
6°	67115.3	66568.6	64894.1	65774.7	65527.3	65383.9	66876.6	65639.9	66085.1	65463.0
7°	55826.5	54805.0	53982.6	54826.0	54880.5	54448.8	56386.8	56161.7	55351.6	55163.7
8°	46253.1	45234.1	44537.8	45166.1	45576.6	44898.9	45810.4	46409.0	45775.8	45832.6
9°	37305.5	37126.2	36157.8	36979.0	37425.5	36699.5	37708.7	37925.1	37332.7	37620.9
10°	30631.0	30421.9	29649.0	29981.7	30721.2	29855.5	30823.9	30894.4	30421.9	30556.7
12.5°	18929.2	18845.1	18824.0	18872.3	18862.4	19015.7	19263.1	18981.1	18944.0	18477.8
15°	12234.8	12359.7	12231.1	12478.5	12514.3	12659.0	12508.1	12280.6	11846.5	11631.3
17.5°	7635.5	7795.0	8015.1	8377.5	8739.9	8781.9	8581.6	8314.4	8104.2	7874.2
20°	4392.8	4470.7	4437.3	4871.4	5808.8	6063.6	5805.1	5524.4	5270.9	5038.4
22.5°	2729.4	2701.0	2752.9	2898.9	3204.3	3992.1	3780.6	3499.9	3315.6	3123.9
25°	1673.3	1704.2	1684.4	1764.8	1902.1	2236.0	2284.2	2163.0	2069.0	1970.1
27.5°	1077.2	1077.2	1085.8	1130.4	1224.3	1213.2	1470.5	1376.5	1325.8	1277.5
30°	748.2	750.7	750.7	776.7	797.7	760.6	827.4	948.6	925.1	888.0
32.5°	555.3	562.7	568.9	582.5	565.2	525.6	541.7	682.7	669.1	655.5
35°	423.0	429.1	444.0	451.4	426.7	401.9	387.1	502.1	508.3	504.6
37.5°	307.9	311.7	338.9	367.3	338.9	316.6	307.9	385.9	415.5	411.8
40°	236.2	237.4	242.4	274.6	274.6	257.2	259.7	288.2	340.1	340.1
42.5°	202.8	202.8	207.8	202.8	204.1	222.6	228.8	232.5	288.2	288.2
45°	175.6	175.6	178.1	165.7	153.4	191.7	196.6	197.9	242.4	248.6
47.5°	147.2	147.2	152.1	136.0	129.9	152.1	165.7	169.4	209.0	214.0
50°	108.8	110.1	124.9	111.3	115.0	117.5	143.5	145.9	176.9	188.0
52.5°	73.0	73.0	75.4	86.6	100.2	96.5	116.3	124.9	141.0	155.8
55°	59.4	59.4	58.1	55.7	74.2	80.4	85.3	103.9	115.0	133.6
57.5°	40.8	43.3	39.6	45.8	48.2	60.6	64.3	81.6	87.8	112.5
60°	4.9	6.2	8.7	33.4	32.2	40.8	48.2	64.3	71.7	86.6
62.5°	1.2	1.2	2.5	6.2	22.3	27.2	38.3	44.5	51.9	66.8
65°	0.0	0.0	1.2	2.5	4.9	14.8	19.8	26.0	37.1	47.0
67.5°	0.0	0.0	1.2	2.5	2.5	6.2	9.9	16.1	19.8	34.6
70°	0.0	0.0	1.2	2.5	2.5	4.9	6.2	7.4	13.6	18.6
72.5°	0.0	0.0	1.2	2.5	3.7	4.9	6.2	6.2	6.2	12.4
75°	0.0	0.0	1.2	2.5	3.7	4.9	6.2	6.2	4.9	4.9
77.5°	0.0	0.0	1.2	2.5	4.9	6.2	7.4	6.2	3.7	3.7
80°	0.0	0.0	1.2	3.7	6.2	8.7	9.9	7.4	3.7	2.5
82.5°	0.0	0.0	2.5	4.9	7.4	9.9	13.6	11.1	4.9	2.5
85°	0.0	0.0	1.2	3.7	7.4	9.9	19.8	13.6	6.2	1.2
87.5°	0.0	0.0	0.0	1.2	1.2	2.5	7.4	4.9	2.5	1.2
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°
112789.6	0°	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6	112789.6
110981.5	1°	111757.0	111834.9	111580.1	111974.6	111836.1	111024.8	110756.5	110438.6	109981.0
106582.5	2°	106256.1	106653.0	106672.8	107110.6	107104.4	106158.4	105865.3	106405.7	105350.8
98853.1	3°	98553.8	99016.3	98599.6	99377.4	99143.7	97996.0	97698.0	98311.4	97544.6
89075.6	4°	88809.7	88721.9	88578.5	88135.7	88681.1	87898.3	87308.3	88140.7	86500.8
77738.7	5°	77582.8	77387.4	77107.9	76976.8	77382.5	76881.6	75668.4	76884.1	73959.3
66588.4	6°	66670.1	65829.1	65788.3	65715.3	65756.1	64353.7	64437.8	65343.1	62909.2
54516.9	7°	55093.2	55247.8	54932.4	55438.2	55052.4	54102.6	53736.5	54690.0	52969.7
46082.5	8°	45760.9	45565.5	45324.4	46080.0	45410.9	44787.6	44361.0	45114.1	43836.6
37667.9	9°	37597.4	37259.7	37014.9	36976.5	37080.4	35910.5	36147.9	36718.1	35948.8
30631.0	10°	30642.1	30088.0	30222.8	30258.7	30144.9	29378.2	29385.6	29582.2	28657.2
18786.9	12.5°	18720.2	18448.1	18516.1	18553.2	18784.5	18514.9	18133.9	17859.4	17720.9
11845.3	15°	11766.1	11570.7	11970.2	12238.5	12184.1	11944.2	11764.9	11516.3	11315.9
7874.2	17.5°	7801.2	8057.2	8058.4	8303.3	8328.0	8088.1	7949.6	7725.8	7735.7
5121.2	20°	5102.7	5209.0	5430.4	5603.6	5703.7	5520.7	5355.0	5201.6	5137.3
3193.2	22.5°	3193.2	3378.7	3517.2	3742.3	3833.8	3700.3	3582.8	3457.9	3381.2
1993.6	25°	1960.2	2092.5	2207.5	2402.9	2527.8	2463.5	2355.9	2268.1	2227.3
1287.4	27.5°	1307.2	1362.9	1419.7	1554.6	1684.4	1648.5	1605.3	1552.1	1533.5
907.7	30°	921.4	926.3	986.9	1062.3	1148.9	1171.2	1151.4	1124.2	1103.1
666.6	32.5°	679.0	698.7	727.2	774.2	832.3	885.5	875.6	863.2	853.3
509.5	35°	524.4	554.0	577.5	613.4	644.3	695.0	703.7	700.0	692.6
419.2	37.5°	427.9	453.9	477.4	498.4	524.4	559.0	586.2	587.4	580.0
346.3	40°	354.9	378.4	409.4	425.4	444.0	470.0	503.3	505.8	503.3
293.1	42.5°	299.3	321.5	352.5	372.3	385.9	410.6	444.0	448.9	444.0
251.1	45°	257.2	270.8	303.0	326.5	340.1	356.2	392.0	397.0	395.7
216.4	47.5°	223.8	237.4	257.2	290.6	303.0	317.8	346.3	354.9	354.9
191.7	50°	196.6	210.2	227.6	257.2	275.8	288.2	311.7	324.0	324.0
167.0	52.5°	174.4	188.0	206.5	230.0	251.1	262.2	284.4	300.5	300.5
136.0	55°	145.9	169.4	183.0	204.1	232.5	242.4	259.7	280.7	280.7
118.7	57.5°	127.4	147.2	167.0	184.3	212.7	225.1	242.4	262.2	264.7
94.0	60°	107.6	126.1	149.6	164.5	191.7	207.8	226.3	244.9	249.8
71.7	62.5°	85.3	110.1	126.1	147.2	173.1	194.2	209.0	227.6	235.0
55.7	65°	63.1	90.3	108.8	131.1	155.8	178.1	190.5	210.2	215.2
39.6	67.5°	45.8	70.5	92.8	113.8	137.3	159.5	171.9	189.2	192.9
24.7	70°	35.9	51.9	76.7	95.2	120.0	138.5	152.1	163.2	167.0
16.1	72.5°	21.0	39.6	61.8	82.9	105.1	117.5	127.4	137.3	139.7
7.4	75°	13.6	30.9	50.7	69.3	85.3	96.5	105.1	113.8	115.0
3.7	77.5°	8.7	22.3	40.8	58.1	65.5	79.1	86.6	91.5	89.0
2.5	80°	4.9	17.3	35.9	47.0	53.2	61.8	69.3	75.4	69.3
2.5	82.5°	3.7	14.8	29.7	39.6	39.6	49.5	53.2	53.2	50.7
1.2	85°	2.5	12.4	23.5	37.1	29.7	37.1	34.6	34.6	34.6
1.2	87.5°	2.5	8.7	11.1	16.1	13.6	16.1	16.1	18.6	18.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
112789.6
109179.6
104116.5
95586.9
85128.0
73681.0
62718.8
52096.6
42963.5
34937.2
28244.1
17692.4
11388.9
7670.1
5148.4
3391.1
2217.4
1521.2
1105.6
853.3
687.6
578.8
502.1
445.2
395.7
356.2
325.3
300.5
282.0
263.4
249.8
236.2
214.0
190.5
167.0
139.7
113.8
89.0
68.0
49.5
33.4
18.6
0.0

(END OF REPORT)