

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: P637119

Luminaire Tested: **IFLD-S-SA3A-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637119
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13682.6 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

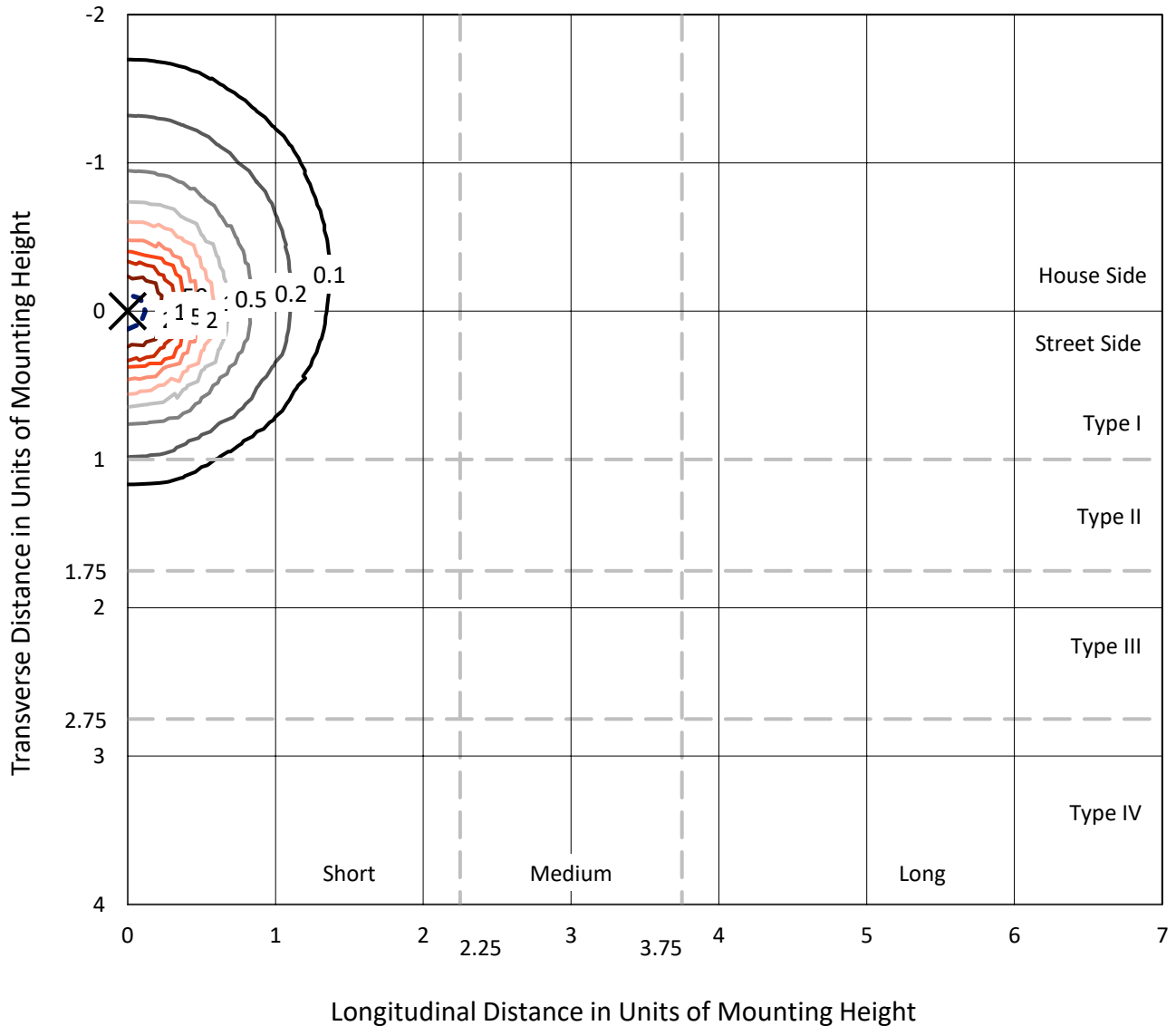
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

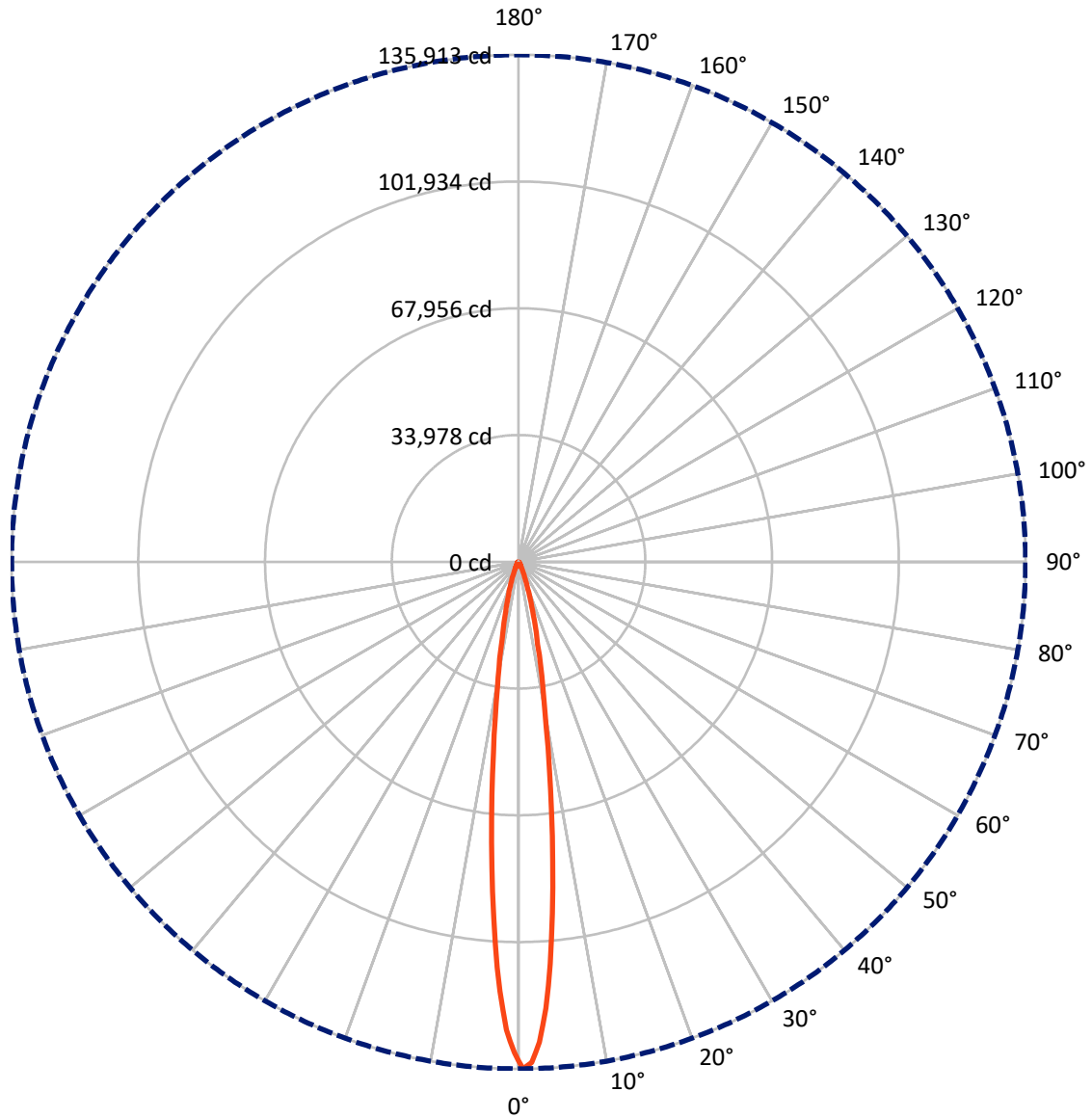
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 339.8 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	7008.0	0.0	7008.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6674.6	0.0	6674.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	13682.6	0.0	13682.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6907.4	50.5
10°-20°	4422.1	32.3
20°-30°	1329.2	9.7
30°-40°	432.8	3.2
40°-50°	251.8	1.8
50°-60°	167.3	1.2
60°-70°	100.7	0.7
70°-80°	51.8	0.4
80°-90°	19.7	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°	13682.6	100.0
0°-180°	13682.6	100.0

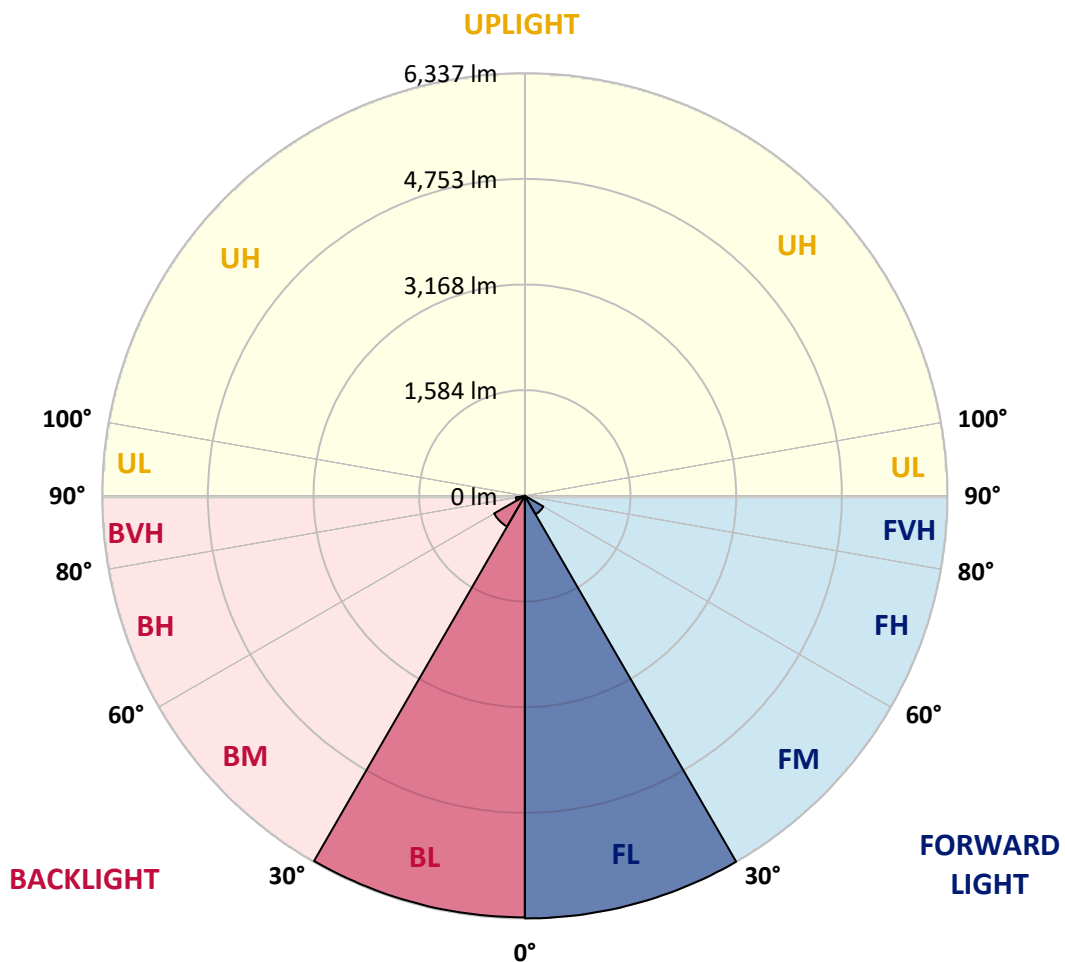


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6336.8	46.3			
FM (30°-60°)	319.8	2.3			
FH (60°-80°)	15.1	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	6321.8	46.2	B5		
BM (30°-60°)	532.1	3.9	B1/1000		
BH (60°-80°)	137.4	1.0	B1/500		G0/660
BVH (80°-90°)	16.7	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°	135912.6	135912.6	135912.6	135912.6	135912.6	135912.6	135912.6	135912.6	135912.6	135912.6
1°	134285.2	133875.4	132817.3	133569.9	134231.6	134039.4	134025.9	133954.4	133854.6	134638.4
2°	128917.4	128652.1	127087.3	127732.6	128672.9	127987.4	128416.6	128039.6	128047.0	128982.9
3°	119868.5	120013.1	117516.9	118689.7	119996.7	118335.1	118850.7	119819.4	118804.5	118499.0
4°	108107.5	106852.7	105489.1	106681.3	107019.6	106052.4	107003.2	108189.4	106779.6	106842.2
5°	94680.3	93753.3	92139.4	92875.6	92036.6	92342.1	93766.7	94255.5	93272.0	92033.6
6°	80874.6	80215.9	78198.1	79259.1	78961.1	78788.2	80586.9	79096.7	79633.2	78883.6
7°	67271.5	66040.6	65049.6	66065.9	66131.5	65611.4	67946.6	67675.4	66699.3	66472.8
8°	55735.5	54507.5	53668.5	54425.5	54920.3	54103.6	55202.0	55923.2	55160.2	55228.8
9°	44953.5	44737.4	43570.5	44560.1	45098.0	44223.3	45439.3	45700.1	44986.3	45333.5
10°	36910.6	36658.7	35727.3	36128.2	37019.4	35976.2	37143.1	37228.0	36658.7	36821.2
12.5°	22809.8	22708.5	22683.1	22741.3	22729.3	22914.1	23212.2	22872.4	22827.7	22265.9
15°	14743.1	14893.6	14738.6	15036.7	15079.9	15254.2	15072.4	14798.2	14275.1	14015.8
17.5°	9200.8	9393.1	9658.3	10095.0	10531.6	10582.3	10340.9	10019.0	9765.6	9488.4
20°	5293.4	5387.3	5347.0	5870.1	6999.7	7306.7	6995.2	6657.0	6351.5	6071.3
22.5°	3289.0	3254.7	3317.3	3493.2	3861.2	4810.5	4555.7	4217.4	3995.4	3764.4
25°	2016.3	2053.6	2029.7	2126.6	2292.0	2694.4	2752.5	2606.5	2493.2	2374.0
27.5°	1298.0	1298.0	1308.4	1362.1	1475.4	1461.9	1771.9	1658.7	1597.6	1539.4
30°	901.6	904.6	904.6	935.9	961.2	916.5	997.0	1143.0	1114.7	1070.0
32.5°	669.1	678.1	685.5	701.9	681.0	633.4	652.7	822.6	806.2	789.8
35°	509.7	517.1	535.0	543.9	514.1	484.3	466.4	605.0	612.5	608.0
37.5°	371.1	375.5	408.3	442.6	408.3	381.5	371.1	465.0	500.7	496.3
40°	284.6	286.1	292.1	330.8	330.8	310.0	313.0	347.2	409.8	409.8
42.5°	244.4	244.4	250.4	244.4	245.9	268.2	275.7	280.2	347.2	347.2
45°	211.6	211.6	214.6	199.7	184.8	231.0	237.0	238.4	292.1	299.5
47.5°	177.3	177.3	183.3	163.9	156.5	183.3	199.7	204.2	251.9	257.8
50°	131.1	132.6	150.5	134.1	138.6	141.6	172.9	175.8	213.1	226.5
52.5°	87.9	87.9	90.9	104.3	120.7	116.2	140.1	150.5	169.9	187.8
55°	71.5	71.5	70.0	67.1	89.4	96.9	102.8	125.2	138.6	160.9
57.5°	49.2	52.2	47.7	55.1	58.1	73.0	77.5	98.4	105.8	135.6
60°	6.0	7.5	10.4	40.2	38.7	49.2	58.1	77.5	86.4	104.3
62.5°	1.5	1.5	3.0	7.5	26.8	32.8	46.2	53.6	62.6	80.5
65°	0.0	0.0	1.5	3.0	6.0	17.9	23.8	31.3	44.7	56.6
67.5°	0.0	0.0	1.5	3.0	3.0	7.5	11.9	19.4	23.8	41.7
70°	0.0	0.0	1.5	3.0	3.0	6.0	7.5	8.9	16.4	22.4
72.5°	0.0	0.0	1.5	3.0	4.5	6.0	7.5	7.5	7.5	14.9
75°	0.0	0.0	1.5	3.0	4.5	6.0	7.5	7.5	6.0	6.0
77.5°	0.0	0.0	1.5	3.0	6.0	7.5	8.9	7.5	4.5	4.5
80°	0.0	0.0	1.5	4.5	7.5	10.4	11.9	8.9	4.5	3.0
82.5°	0.0	0.0	3.0	6.0	8.9	11.9	16.4	13.4	6.0	3.0
85°	0.0	0.0	1.5	4.5	8.9	11.9	23.8	16.4	7.5	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	3.0	8.9	6.0	3.0	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°
135912.6	0°	135912.6	135912.6	135912.6	135912.6	135912.6	135912.6	135912.6	135912.6
133733.9	1°	134668.2	134762.1	134455.1	134930.5	134763.6	133786.0	133462.6	133079.6
128433.0	2°	128039.6	128518.0	128541.8	129069.4	129061.9	127921.9	127568.7	128219.9
119118.9	3°	118758.3	119315.6	118813.4	119750.8	119469.1	118086.2	117727.0	118466.2
107337.0	4°	107016.6	106910.8	106737.9	106204.4	106861.6	105918.3	105207.4	106210.4
93675.8	5°	93488.1	93252.6	92915.8	92757.8	93246.6	92643.1	91181.2	92646.1
80239.7	6°	80338.1	79324.7	79275.5	79187.6	79236.8	77546.8	77648.2	78739.0
65693.4	7°	66387.8	66574.1	66194.1	66803.6	66338.6	65194.1	64753.0	65902.0
55529.8	8°	55142.4	54906.9	54616.3	55526.8	54720.6	53969.5	53455.4	54363.0
45390.1	9°	45305.2	44898.4	44603.3	44557.1	44682.3	43272.5	43558.6	44245.6
36910.6	10°	36924.0	36256.4	36418.8	36462.0	36324.9	35401.0	35409.9	35646.9
22638.4	12.5°	22558.0	22230.1	22312.1	22356.8	22635.5	22310.6	21851.6	21520.7
14273.6	15°	14178.3	13942.8	14424.2	14747.5	14682.0	14392.9	14176.8	13877.2
9488.4	17.5°	9400.5	9709.0	9710.5	10005.6	10035.4	9746.3	9579.3	9309.6
6171.1	20°	6148.8	6276.9	6543.7	6752.3	6873.0	6652.5	6452.8	6268.0
3847.8	22.5°	3847.8	4071.4	4238.3	4509.5	4619.8	4458.8	4317.3	4166.7
2402.3	25°	2362.1	2521.5	2660.1	2895.6	3046.1	2968.6	2838.9	2733.1
1551.4	27.5°	1575.2	1642.3	1710.8	1873.2	2029.7	1986.5	1934.3	1870.3
1093.8	30°	1110.2	1116.2	1189.2	1280.1	1384.4	1411.3	1387.4	1354.6
803.2	32.5°	818.1	842.0	876.3	932.9	1002.9	1067.0	1055.1	1040.2
614.0	35°	631.9	667.6	695.9	739.2	776.4	837.5	848.0	843.5
505.2	37.5°	515.6	546.9	575.2	600.6	631.9	673.6	706.4	707.9
417.3	40°	427.7	456.0	493.3	512.6	535.0	566.3	606.5	609.5
353.2	42.5°	360.6	387.5	424.7	448.6	465.0	494.8	535.0	541.0
302.5	45°	310.0	326.4	365.1	393.4	409.8	429.2	472.4	478.4
260.8	47.5°	269.7	286.1	310.0	350.2	365.1	383.0	417.3	427.7
231.0	50°	237.0	253.3	274.2	310.0	332.3	347.2	375.5	390.4
201.2	52.5°	210.1	226.5	248.9	277.2	302.5	315.9	342.8	362.1
163.9	55°	175.8	204.2	220.6	245.9	280.2	292.1	313.0	338.3
143.1	57.5°	153.5	177.3	201.2	222.0	256.3	271.2	292.1	315.9
113.3	60°	129.7	152.0	180.3	198.2	231.0	250.4	272.7	295.1
86.4	62.5°	102.8	132.6	152.0	177.3	208.6	234.0	251.9	274.2
67.1	65°	76.0	108.8	131.1	158.0	187.8	214.6	229.5	253.3
47.7	67.5°	55.1	84.9	111.8	137.1	165.4	192.2	207.1	228.0
29.8	70°	43.2	62.6	92.4	114.7	144.6	166.9	183.3	196.7
19.4	72.5°	25.3	47.7	74.5	99.8	126.7	141.6	153.5	165.4
8.9	75°	16.4	37.3	61.1	83.5	102.8	116.2	126.7	137.1
4.5	77.5°	10.4	26.8	49.2	70.0	79.0	95.4	104.3	110.3
3.0	80°	6.0	20.9	43.2	56.6	64.1	74.5	83.5	90.9
3.0	82.5°	4.5	17.9	35.8	47.7	47.7	59.6	64.1	64.1
1.5	85°	3.0	14.9	28.3	44.7	35.8	44.7	41.7	41.7
1.5	87.5°	3.0	10.4	13.4	19.4	16.4	19.4	19.4	22.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
135912.6
131562.6
125461.5
115183.2
102580.1
88786.3
75576.7
62776.9
51771.4
42099.7
34034.4
21319.6
13723.7
9242.6
6203.9
4086.3
2672.0
1833.0
1332.3
1028.3
828.6
697.4
605.0
536.5
476.9
429.2
391.9
362.1
339.8
317.4
301.0
284.6
257.8
229.5
201.2
168.4
137.1
107.3
82.0
59.6
40.2
22.4
0.0

(END OF REPORT)