

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: P637085

Luminaire Tested: **IFLD-S-SA2A-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637085
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9055.5 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

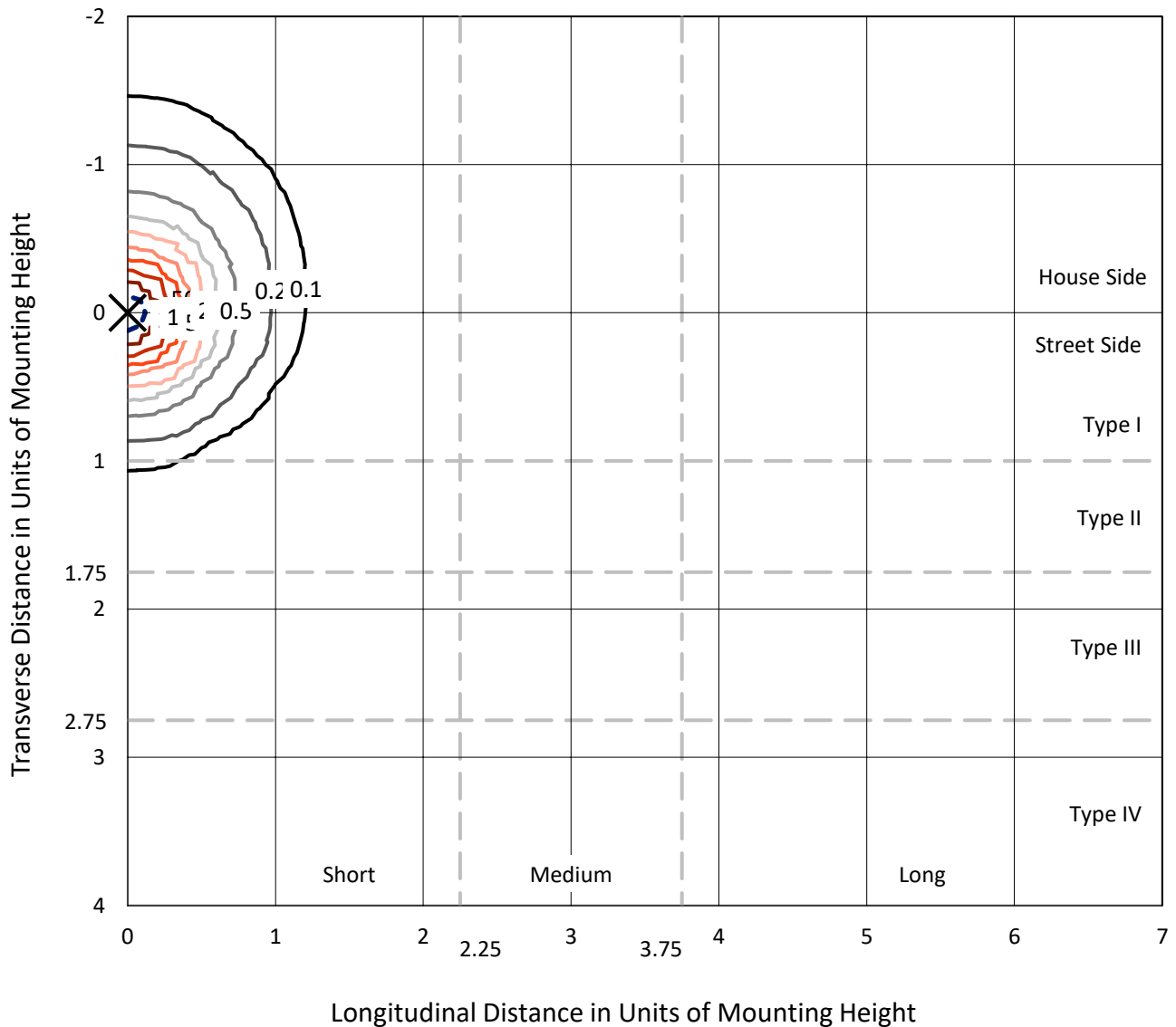
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

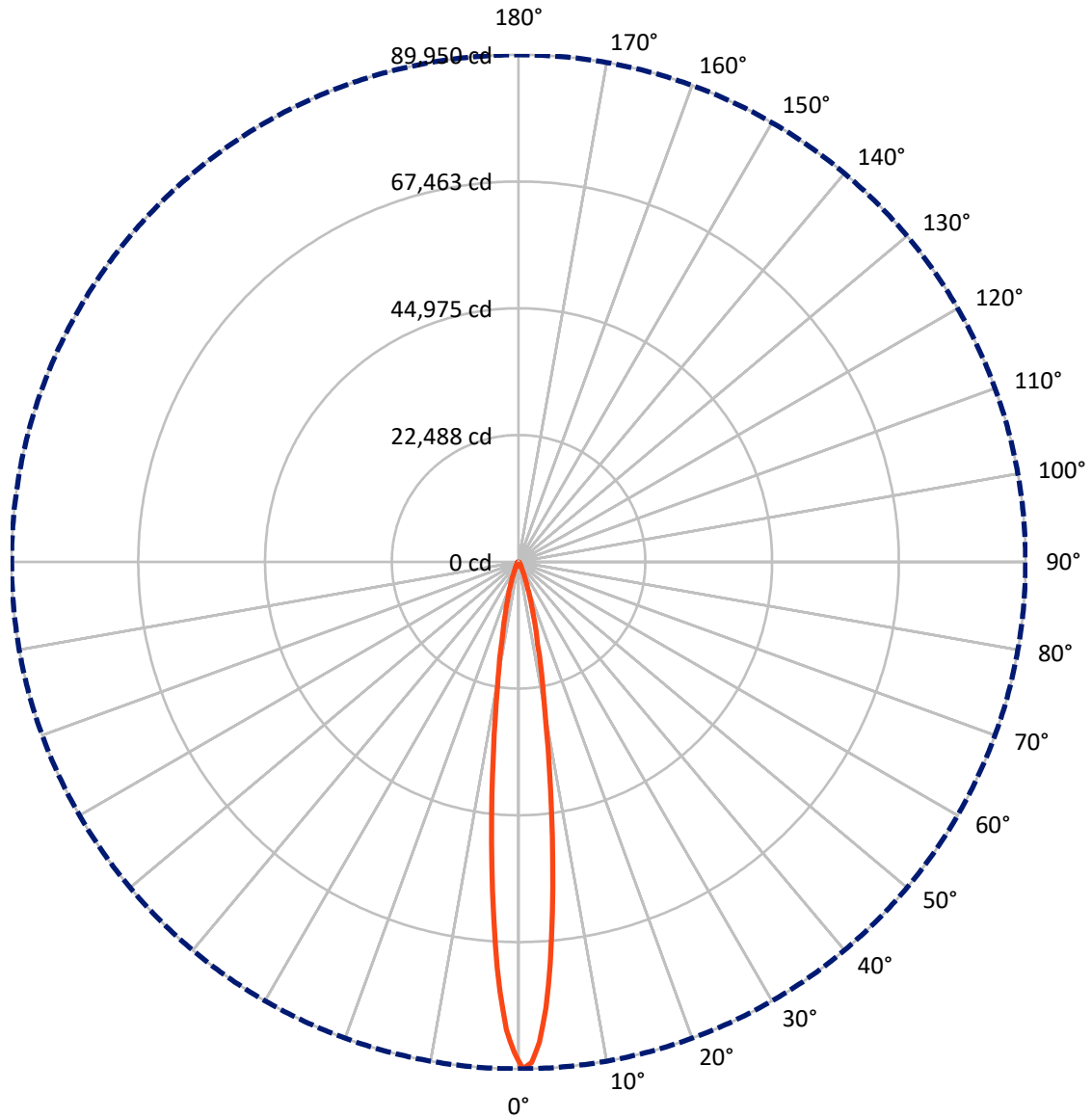
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 224.9 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	4638.1	0.0	4638.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	4417.4	0.0	4417.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	9055.5	0.0	9055.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4571.5	50.5
10°-20°	2926.6	32.3
20°-30°	879.7	9.7
30°-40°	286.4	3.2
40°-50°	166.7	1.8
50°-60°	110.7	1.2
60°-70°	66.6	0.7
70°-80°	34.2	0.4
80°-90°	13.0	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°	9055.5	100.0
0°-180°	9055.5	100.0

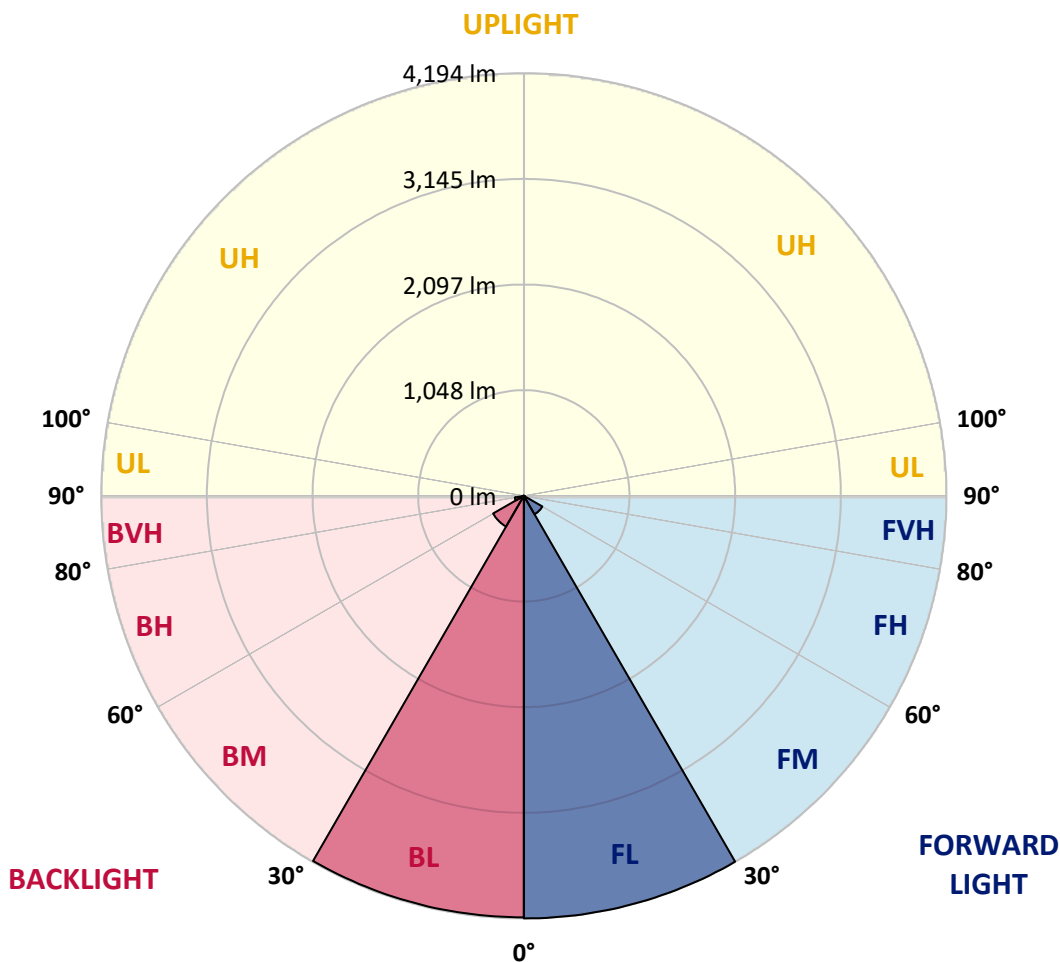


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4193.9	46.3			
FM (30°-60°)	211.6	2.3			
FH (60°-80°)	10.0	0.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	4183.9	46.2	B4/5000		
BM (30°-60°)	352.1	3.9	B1/1000		
BH (60°-80°)	90.9	1.0	B0/110		G0/660
BVH (80°-90°)	11.0	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°	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4
1°	88873.4	88602.1	87901.9	88399.9	88837.8	88710.6	88701.7	88654.4	88588.3	89107.1
2°	85320.7	85145.2	84109.6	84536.6	85159.0	84705.3	84989.4	84739.8	84744.8	85364.1
3°	79332.0	79427.7	77775.6	78551.9	79416.8	78317.1	78658.4	79299.5	78627.8	78425.6
4°	71548.2	70717.8	69815.3	70604.4	70828.2	70188.1	70817.4	71602.5	70669.4	70710.9
5°	62661.8	62048.3	60980.2	61467.4	60912.1	61114.3	62057.2	62380.7	61729.7	60910.1
6°	53524.8	53088.9	51753.4	52455.7	52258.4	52144.0	53334.5	52348.2	52703.2	52207.1
7°	44522.0	43707.3	43051.4	43724.1	43767.5	43423.3	44968.8	44789.3	44143.3	43993.3
8°	36887.1	36074.4	35519.2	36020.2	36347.6	35807.2	36534.0	37011.4	36506.4	36551.8
9°	29751.4	29608.3	28836.1	29491.0	29847.0	29268.1	30072.9	30245.5	29773.1	30002.9
10°	24428.4	24261.7	23645.2	23910.6	24500.4	23810.0	24582.2	24638.4	24261.7	24369.2
12.5°	15096.1	15029.0	15012.3	15050.7	15042.9	15165.2	15362.4	15137.5	15107.9	14736.1
15°	9757.3	9857.0	9754.4	9951.6	9980.2	10095.6	9975.3	9793.8	9447.6	9276.0
17.5°	6089.3	6216.6	6392.1	6681.1	6970.1	7003.6	6843.8	6630.8	6463.1	6279.7
20°	3503.3	3565.4	3538.8	3885.0	4632.6	4835.8	4629.6	4405.7	4203.6	4018.1
22.5°	2176.7	2154.1	2195.5	2311.9	2555.5	3183.7	3015.1	2791.2	2644.2	2491.4
25°	1334.4	1359.1	1343.3	1407.4	1516.9	1783.2	1821.7	1725.0	1650.1	1571.2
27.5°	859.1	859.1	866.0	901.5	976.4	967.5	1172.7	1097.7	1057.3	1018.8
30°	596.7	598.7	598.7	619.4	636.2	606.6	659.8	756.5	737.7	708.2
32.5°	442.8	448.8	453.7	464.5	450.7	419.2	432.0	544.4	533.6	522.7
35°	337.3	342.2	354.1	360.0	340.3	320.5	308.7	400.4	405.4	402.4
37.5°	245.6	248.5	270.2	292.9	270.2	252.5	245.6	307.7	331.4	328.4
40°	188.4	189.4	193.3	219.0	219.0	205.1	207.1	229.8	271.2	271.2
42.5°	161.8	161.8	165.7	161.8	162.7	177.5	182.5	185.4	229.8	229.8
45°	140.1	140.1	142.0	132.2	122.3	152.9	156.8	157.8	193.3	198.2
47.5°	117.4	117.4	121.3	108.5	103.6	121.3	132.2	135.1	166.7	170.6
50°	86.8	87.8	99.6	88.8	91.7	93.7	114.4	116.4	141.0	149.9
52.5°	58.2	58.2	60.2	69.0	79.9	76.9	92.7	99.6	112.4	124.3
55°	47.3	47.3	46.4	44.4	59.2	64.1	68.1	82.8	91.7	106.5
57.5°	32.5	34.5	31.6	36.5	38.5	48.3	51.3	65.1	70.0	89.8
60°	3.9	4.9	6.9	26.6	25.6	32.5	38.5	51.3	57.2	69.0
62.5°	1.0	1.0	2.0	4.9	17.8	21.7	30.6	35.5	41.4	53.3
65°	0.0	0.0	1.0	2.0	3.9	11.8	15.8	20.7	29.6	37.5
67.5°	0.0	0.0	1.0	2.0	2.0	4.9	7.9	12.8	15.8	27.6
70°	0.0	0.0	1.0	2.0	2.0	3.9	4.9	5.9	10.8	14.8
72.5°	0.0	0.0	1.0	2.0	3.0	3.9	4.9	4.9	4.9	9.9
75°	0.0	0.0	1.0	2.0	3.0	3.9	4.9	4.9	3.9	3.9
77.5°	0.0	0.0	1.0	2.0	3.9	4.9	5.9	4.9	3.0	3.0
80°	0.0	0.0	1.0	3.0	4.9	6.9	7.9	5.9	3.0	2.0
82.5°	0.0	0.0	2.0	3.9	5.9	7.9	10.8	8.9	3.9	2.0
85°	0.0	0.0	1.0	3.0	5.9	7.9	15.8	10.8	4.9	1.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	5.9	3.9	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°
89950.4	0°	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4	89950.4
88508.4	1°	89126.8	89189.0	88985.8	89300.4	89189.9	88542.9	88328.9	88075.4	87710.5
85000.2	2°	84739.8	85056.4	85072.2	85421.3	85416.4	84661.9	84428.2	84859.2	84017.9
78835.9	3°	78597.2	78966.1	78633.7	79254.1	79067.7	78152.4	77914.7	78403.9	77792.4
71038.3	4°	70826.3	70756.2	70641.8	70288.7	70723.7	70099.4	69628.9	70292.7	68984.9
61997.0	5°	61872.8	61716.9	61494.0	61389.5	61713.0	61313.5	60346.0	61315.5	58982.9
53104.7	6°	53169.8	52499.1	52466.5	52408.3	52440.9	51322.4	51389.5	52111.5	50170.5
43477.5	7°	43937.1	44060.4	43808.9	44212.3	43904.6	43147.1	42855.2	43615.6	42243.7
36751.0	8°	36494.6	36338.8	36146.4	36749.1	36215.5	35718.4	35378.1	35978.8	34959.9
30040.3	9°	29984.1	29714.9	29519.6	29489.0	29571.8	28638.8	28828.2	29282.9	28669.4
24428.4	10°	24437.2	23995.4	24102.9	24131.5	24040.7	23429.3	23435.2	23592.0	22854.2
14982.7	12.5°	14929.4	14712.4	14766.7	14796.3	14980.7	14765.7	14461.9	14243.0	14132.5
9446.7	15°	9383.5	9227.7	9546.3	9760.3	9716.9	9525.6	9382.5	9184.3	9024.5
6279.7	17.5°	6221.5	6425.7	6426.6	6621.9	6641.7	6450.3	6339.9	6161.3	6169.2
4084.2	20°	4069.4	4154.2	4330.8	4468.9	4548.8	4402.8	4270.6	4148.3	4097.0
2546.6	22.5°	2546.6	2694.5	2805.0	2984.5	3057.5	2951.0	2857.3	2757.7	2696.5
1589.9	25°	1563.3	1668.8	1760.5	1916.4	2016.0	1964.7	1878.9	1808.9	1776.3
1026.7	27.5°	1042.5	1086.9	1132.3	1239.8	1343.3	1314.7	1280.2	1237.8	1223.0
723.9	30°	734.8	738.7	787.1	847.2	916.3	934.0	918.2	896.5	879.8
531.6	32.5°	541.5	557.3	579.9	617.4	663.8	706.2	698.3	688.4	680.5
406.4	35°	418.2	441.9	460.6	489.2	513.9	554.3	561.2	558.2	552.3
334.4	37.5°	341.3	362.0	380.7	397.5	418.2	445.8	467.5	468.5	462.6
276.2	40°	283.1	301.8	326.5	339.3	354.1	374.8	401.4	403.4	401.4
233.8	42.5°	238.7	256.4	281.1	296.9	307.7	327.4	354.1	358.0	354.1
200.2	45°	205.1	216.0	241.6	260.4	271.2	284.1	312.7	316.6	315.6
172.6	47.5°	178.5	189.4	205.1	231.8	241.6	253.5	276.2	283.1	283.1
152.9	50°	156.8	167.7	181.5	205.1	219.9	229.8	248.5	258.4	258.4
133.1	52.5°	139.1	149.9	164.7	183.4	200.2	209.1	226.8	239.7	239.7
108.5	55°	116.4	135.1	146.0	162.7	185.4	193.3	207.1	223.9	223.9
94.7	57.5°	101.6	117.4	133.1	147.0	169.6	179.5	193.3	209.1	211.1
75.0	60°	85.8	100.6	119.3	131.2	152.9	165.7	180.5	195.3	199.2
57.2	62.5°	68.1	87.8	100.6	117.4	138.1	154.8	166.7	181.5	187.4
44.4	65°	50.3	72.0	86.8	104.5	124.3	142.0	151.9	167.7	171.6
31.6	67.5°	36.5	56.2	74.0	90.7	109.5	127.2	137.1	150.9	153.9
19.7	70°	28.6	41.4	61.1	75.9	95.7	110.5	121.3	130.2	133.1
12.8	72.5°	16.8	31.6	49.3	66.1	83.8	93.7	101.6	109.5	111.5
5.9	75°	10.8	24.7	40.4	55.2	68.1	76.9	83.8	90.7	91.7
3.0	77.5°	6.9	17.8	32.5	46.4	52.3	63.1	69.0	73.0	71.0
2.0	80°	3.9	13.8	28.6	37.5	42.4	49.3	55.2	60.2	55.2
2.0	82.5°	3.0	11.8	23.7	31.6	31.6	39.5	42.4	42.4	40.4
1.0	85°	2.0	9.9	18.7	29.6	23.7	29.6	27.6	27.6	27.6
1.0	87.5°	2.0	6.9	8.9	12.8	10.8	12.8	12.8	14.8	14.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°

89950.4

- 87071.4
- 83033.5
- 76231.1
- 67890.1
- 58761.0
- 50018.6
- 41547.3
- 34263.6
- 27862.6
- 22524.8
- 14109.8
- 9082.7
- 6117.0
- 4105.9
- 2704.4
- 1768.4
- 1213.1
- 881.7
- 680.5
- 548.4
- 461.6
- 400.4
- 355.1
- 315.6
- 284.1
- 259.4
- 239.7
- 224.9
- 210.1
- 199.2
- 188.4
- 170.6
- 151.9
- 133.1
- 111.5
- 90.7
- 71.0
- 54.2
- 39.5
- 26.6
- 14.8
- 0.0

(END OF REPORT)