

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: P637231

Luminaire Tested: **IFLD-S-SA2B-830-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637231  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9022.5 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

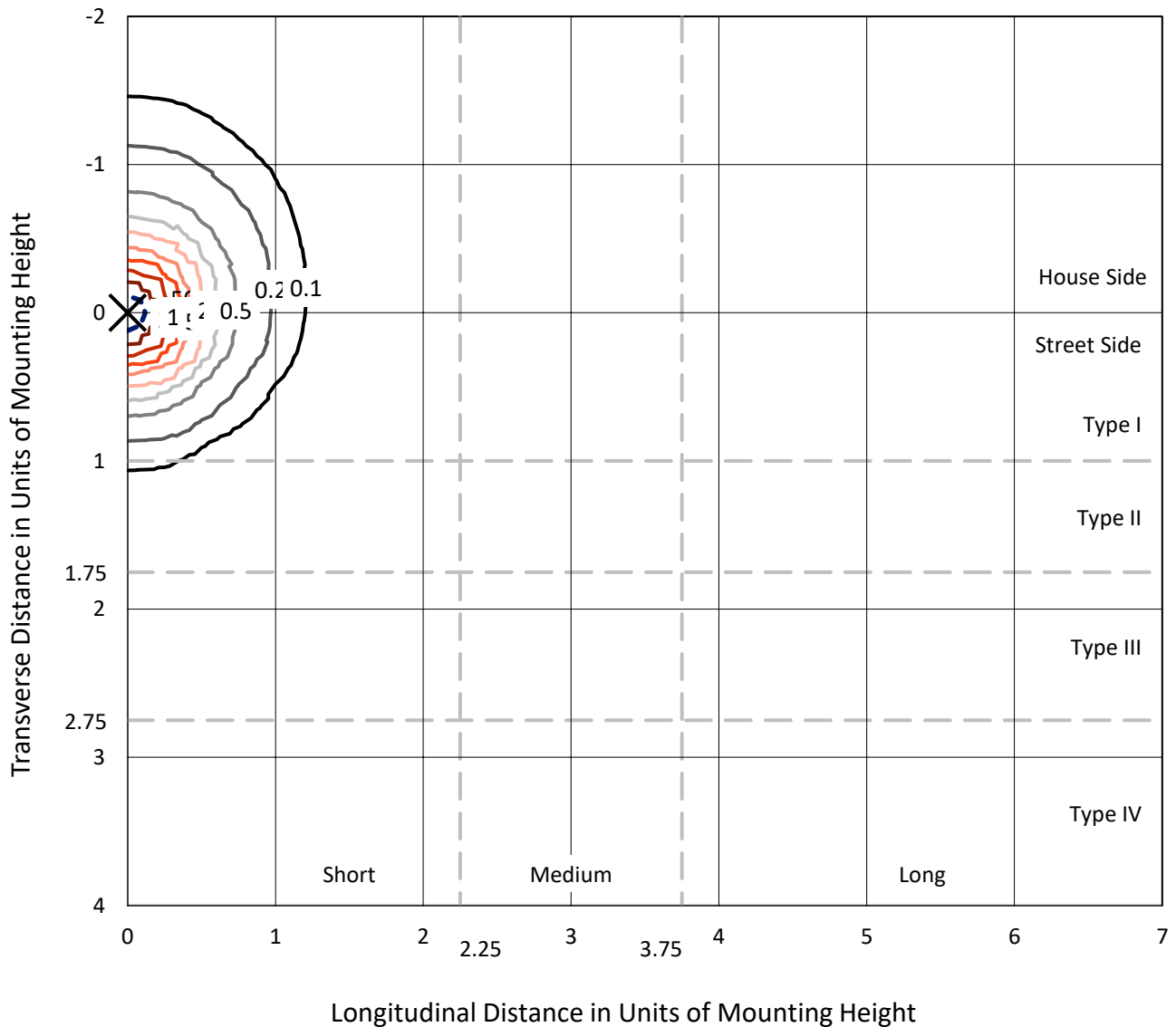
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

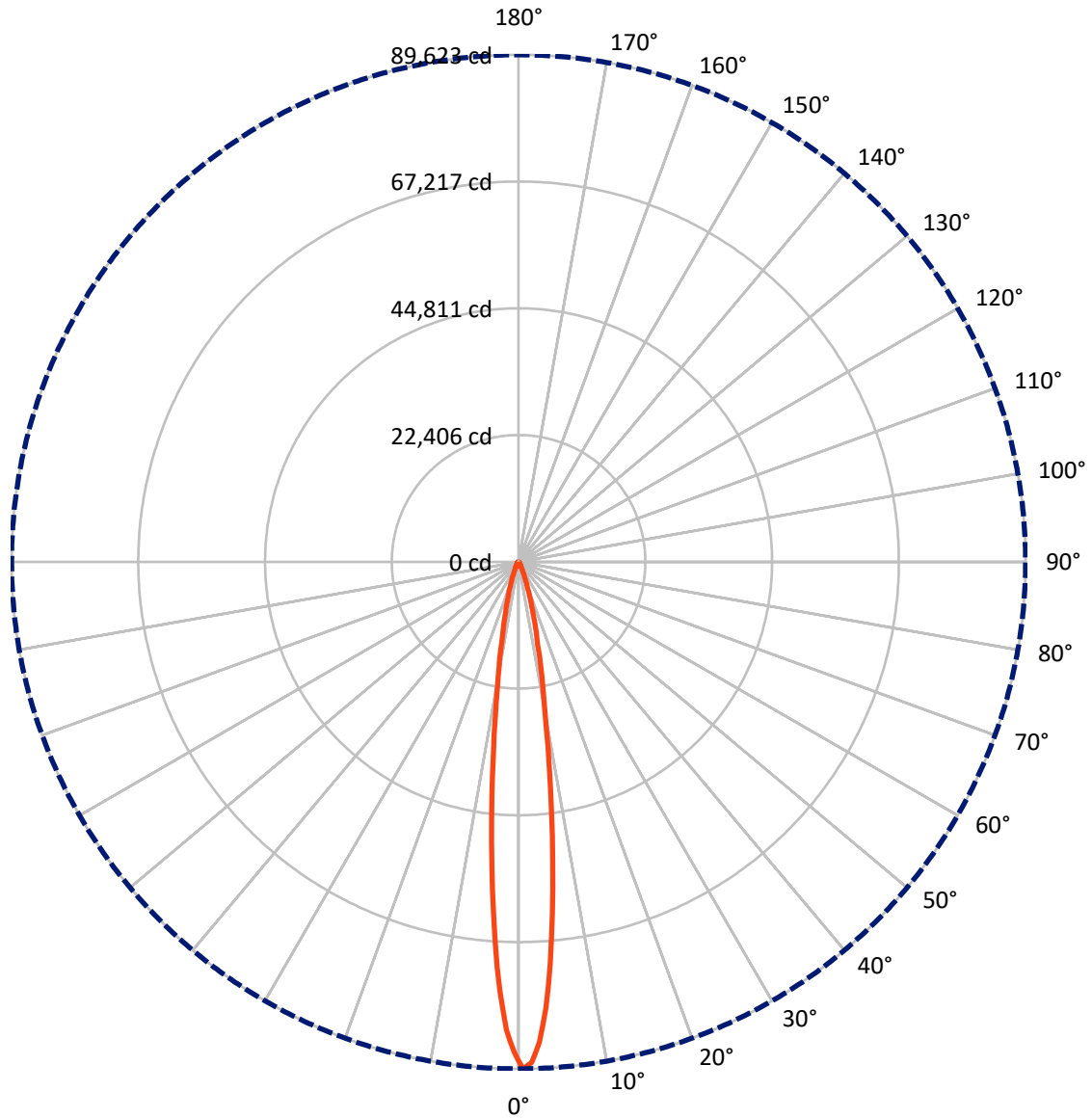
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 224.1 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
<b>House Side</b>	Lumens	4621.2	0.0	4621.2
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	4401.3	0.0	4401.3
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	9022.5	0.0	9022.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4554.8	50.5
10°-20°	2916.0	32.3
20°-30°	876.5	9.7
30°-40°	285.4	3.2
40°-50°	166.0	1.8
50°-60°	110.3	1.2
60°-70°	66.4	0.7
70°-80°	34.1	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°	9022.5	100.0
0°-180°	9022.5	100.0

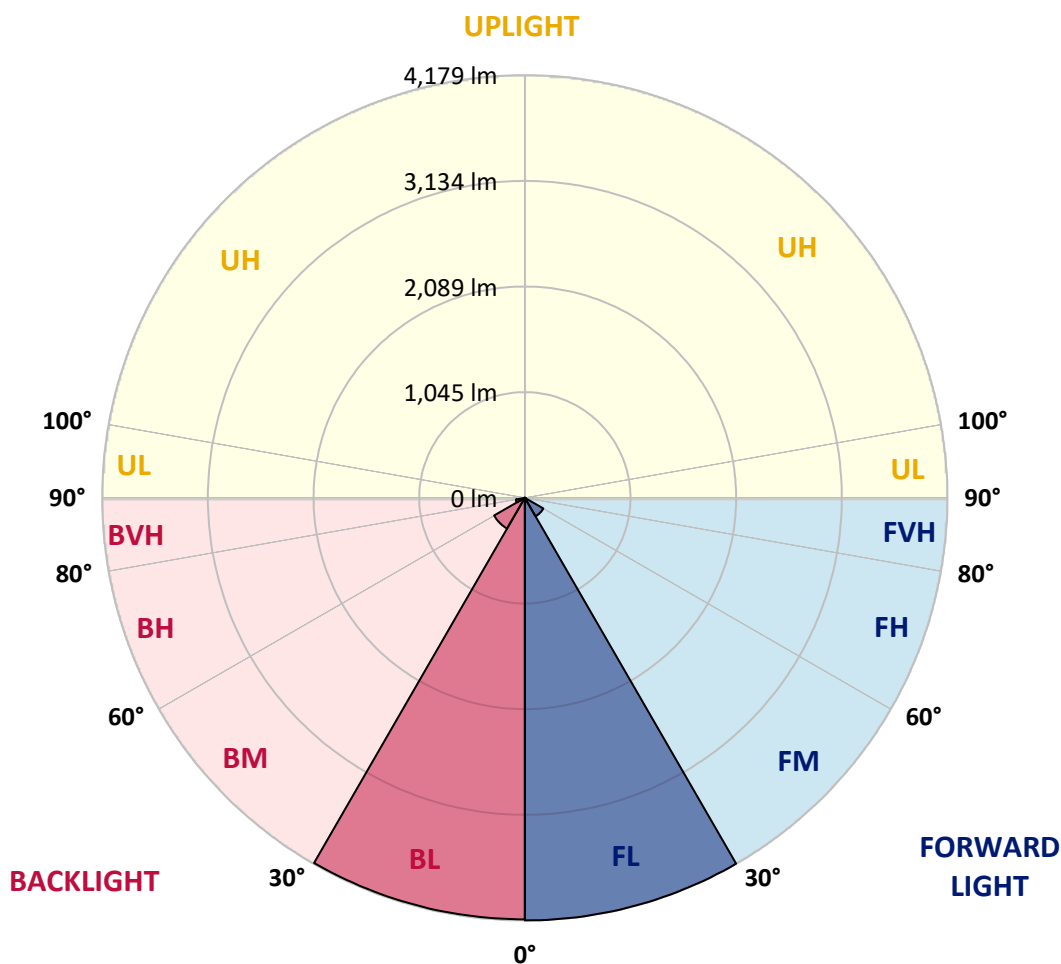


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4178.6	46.3			
FM (30°-60°)	210.9	2.3			
FH (60°-80°)	9.9	0.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	4168.7	46.2	B4/5000		
BM (30°-60°)	350.9	3.9	B1/1000		
BH (60°-80°)	90.6	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°	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6
1°	88549.5	88279.3	87581.6	88077.8	88514.2	88387.4	88378.5	88331.4	88265.5	88782.4
2°	85009.9	84834.9	83803.1	84228.6	84848.7	84396.7	84679.7	84431.1	84436.0	85053.1
3°	79043.0	79138.3	77492.3	78265.6	79127.5	78031.8	78371.8	79010.5	78341.3	78139.9
4°	71287.5	70460.1	69560.9	70347.1	70570.2	69932.4	70559.4	71341.6	70412.0	70453.2
5°	62433.5	61822.2	60758.0	61243.4	60690.2	60891.6	61831.1	62153.4	61504.8	60688.2
6°	53329.8	52895.4	51564.9	52264.6	52068.0	51954.0	53140.1	52157.4	52511.2	52016.9
7°	44359.8	43548.1	42894.6	43564.8	43608.0	43265.0	44804.9	44626.1	43982.4	43833.0
8°	36752.7	35943.0	35389.7	35889.0	36215.2	35676.7	36400.9	36876.6	36373.4	36418.6
9°	29643.0	29500.5	28731.0	29383.5	29738.3	29161.4	29963.3	30135.3	29664.6	29893.5
10°	24339.4	24173.3	23559.1	23823.4	24411.1	23723.2	24492.7	24548.7	24173.3	24280.4
12.5°	15041.1	14974.3	14957.6	14995.9	14988.0	15109.9	15306.4	15082.4	15052.9	14682.4
15°	9721.8	9821.0	9718.8	9915.4	9943.9	10058.9	9939.0	9758.1	9413.2	9242.2
17.5°	6067.1	6193.9	6368.8	6656.8	6944.7	6978.1	6818.9	6606.6	6439.6	6256.8
20°	3490.5	3552.4	3525.9	3870.8	4615.7	4818.1	4612.8	4389.7	4188.2	4003.5
22.5°	2168.8	2146.2	2187.5	2303.4	2546.2	3172.1	3004.1	2781.0	2634.6	2482.3
25°	1329.6	1354.2	1338.4	1402.3	1511.4	1776.7	1815.0	1718.7	1644.0	1565.4
27.5°	855.9	855.9	862.8	898.2	972.9	964.0	1168.4	1093.7	1053.4	1015.1
30°	594.5	596.5	596.5	617.1	633.8	604.4	657.4	753.7	735.1	705.6
32.5°	441.2	447.1	452.0	462.8	449.1	417.6	430.4	542.4	531.6	520.8
35°	336.1	341.0	352.8	358.7	339.0	319.4	307.6	399.0	403.9	400.9
37.5°	244.7	247.6	269.3	291.9	269.3	251.6	244.7	306.6	330.2	327.2
40°	187.7	188.7	192.6	218.2	218.2	204.4	206.4	229.0	270.2	270.2
42.5°	161.2	161.2	165.1	161.2	162.1	176.9	181.8	184.7	229.0	229.0
45°	139.5	139.5	141.5	131.7	121.9	152.3	156.2	157.2	192.6	197.5
47.5°	116.9	116.9	120.9	108.1	103.2	120.9	131.7	134.6	166.1	170.0
50°	86.5	87.5	99.3	88.4	91.4	93.4	114.0	116.0	140.5	149.4
52.5°	58.0	58.0	59.9	68.8	79.6	76.7	92.4	99.3	112.0	123.8
55°	47.2	47.2	46.2	44.2	59.0	63.9	67.8	82.5	91.4	106.1
57.5°	32.4	34.4	31.4	36.4	38.3	48.2	51.1	64.9	69.8	89.4
60°	3.9	4.9	6.9	26.5	25.6	32.4	38.3	51.1	57.0	68.8
62.5°	1.0	1.0	2.0	4.9	17.7	21.6	30.5	35.4	41.3	53.1
65°	0.0	0.0	1.0	2.0	3.9	11.8	15.7	20.6	29.5	37.3
67.5°	0.0	0.0	1.0	2.0	2.0	4.9	7.9	12.8	15.7	27.5
70°	0.0	0.0	1.0	2.0	2.0	3.9	4.9	5.9	10.8	14.7
72.5°	0.0	0.0	1.0	2.0	2.9	3.9	4.9	4.9	4.9	9.8
75°	0.0	0.0	1.0	2.0	2.9	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	2.9	2.9
80°	0.0	0.0	1.0	2.9	4.9	6.9	7.9	5.9	2.9	2.0
82.5°	0.0	0.0	2.0	3.9	5.9	7.9	10.8	8.8	3.9	2.0
85°	0.0	0.0	1.0	2.9	5.9	7.9	15.7	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°
89622.6	0°	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6	89622.6
88185.9	1°	88802.1	88864.0	88661.6	88975.0	88865.0	88220.3	88007.1	87754.5	87390.9
84690.5	2°	84431.1	84746.5	84762.2	85110.1	85105.2	84353.4	84120.5	84550.0	83711.7
78548.7	3°	78310.8	78678.4	78347.2	78965.3	78779.6	77867.7	77630.8	78118.2	77509.0
70779.5	4°	70568.2	70498.4	70384.4	70032.6	70466.0	69844.0	69375.2	70036.6	68733.5
61771.1	5°	61647.3	61492.0	61270.0	61165.8	61488.1	61090.1	60126.1	61092.1	58768.0
52911.2	6°	52976.0	52307.8	52275.4	52217.4	52249.8	51135.4	51202.3	51921.6	49987.7
43319.1	7°	43777.0	43899.9	43649.3	44051.2	43744.6	42989.9	42699.0	43456.7	42089.7
36617.1	8°	36361.6	36206.4	36014.7	36615.2	36083.5	35588.2	35249.2	35847.7	34832.6
29930.9	9°	29874.9	29606.6	29412.0	29381.6	29464.1	28534.5	28723.1	29176.2	28564.9
24339.4	10°	24348.2	23908.0	24015.1	24043.6	23953.2	23343.9	23349.8	23506.0	22771.0
14928.1	12.5°	14875.0	14658.8	14712.9	14742.4	14926.1	14711.9	14409.2	14191.1	14081.0
9412.2	15°	9349.3	9194.1	9511.5	9724.7	9681.5	9490.9	9348.4	9150.8	8991.6
6256.8	17.5°	6198.8	6402.2	6403.2	6597.8	6617.5	6426.8	6316.8	6138.9	6146.7
4069.3	20°	4054.6	4139.1	4315.0	4452.6	4532.2	4386.7	4255.1	4133.2	4082.1
2537.3	22.5°	2537.3	2684.7	2794.8	2973.6	3046.3	2940.2	2846.9	2747.6	2686.7
1584.1	25°	1557.6	1662.7	1754.1	1909.4	2008.6	1957.5	1872.0	1802.3	1769.8
1023.0	27.5°	1038.7	1082.9	1128.1	1235.2	1338.4	1309.9	1275.5	1233.3	1218.5
721.3	30°	732.1	736.0	784.2	844.1	912.9	930.6	914.9	893.3	876.6
529.7	32.5°	539.5	555.2	577.8	615.2	661.4	703.6	695.7	685.9	678.1
404.9	35°	416.7	440.2	458.9	487.4	512.0	552.3	559.2	556.2	550.3
333.1	37.5°	340.0	360.6	379.3	396.0	416.7	444.2	465.8	466.8	460.9
275.2	40°	282.0	300.7	325.3	338.0	352.8	373.4	400.0	401.9	400.0
232.9	42.5°	237.8	255.5	280.1	295.8	306.6	326.3	352.8	356.7	352.8
199.5	45°	204.4	215.2	240.8	259.4	270.2	283.0	311.5	315.4	314.5
172.0	47.5°	177.9	188.7	204.4	230.9	240.8	252.6	275.2	282.0	282.0
152.3	50°	156.2	167.1	180.8	204.4	219.1	229.0	247.6	257.5	257.5
132.7	52.5°	138.6	149.4	164.1	182.8	199.5	208.3	226.0	238.8	238.8
108.1	55°	116.0	134.6	145.4	162.1	184.7	192.6	206.4	223.1	223.1
94.3	57.5°	101.2	116.9	132.7	146.4	169.0	178.9	192.6	208.3	210.3
74.7	60°	85.5	100.2	118.9	130.7	152.3	165.1	179.8	194.6	198.5
57.0	62.5°	67.8	87.5	100.2	116.9	137.6	154.3	166.1	180.8	186.7
44.2	65°	50.1	71.7	86.5	104.2	123.8	141.5	151.3	167.1	171.0
31.4	67.5°	36.4	56.0	73.7	90.4	109.1	126.8	136.6	150.4	153.3
19.7	70°	28.5	41.3	60.9	75.7	95.3	110.1	120.9	129.7	132.7
12.8	72.5°	16.7	31.4	49.1	65.8	83.5	93.4	101.2	109.1	111.0
5.9	75°	10.8	24.6	40.3	55.0	67.8	76.7	83.5	90.4	91.4
2.9	77.5°	6.9	17.7	32.4	46.2	52.1	62.9	68.8	72.7	70.8
2.0	80°	3.9	13.8	28.5	37.3	42.3	49.1	55.0	59.9	55.0
2.0	82.5°	2.9	11.8	23.6	31.4	31.4	39.3	42.3	42.3	40.3
1.0	85°	2.0	9.8	18.7	29.5	23.6	29.5	27.5	27.5	27.5
1.0	87.5°	2.0	6.9	8.8	12.8	10.8	12.8	12.8	14.7	14.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°

89622.6

- 86754.1
- 82731.0
- 75953.4
- 67642.7
- 58546.9
- 49836.3
- 41396.0
- 34138.8
- 27761.1
- 22442.8
- 14058.4
- 9049.6
- 6094.7
- 4091.0
- 2694.5
- 1762.0
- 1208.7
- 878.5
- 678.1
- 546.4
- 459.9
- 399.0
- 353.8
- 314.5
- 283.0
- 258.4
- 238.8
- 224.1
- 209.3
- 198.5
- 187.7
- 170.0
- 151.3
- 132.7
- 111.0
- 90.4
- 70.8
- 54.0
- 39.3
- 26.5
- 14.7
- 0.0

(END OF REPORT)