

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: P638023

Luminaire Tested: **IFLD-S-SA6A-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638023  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (96) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

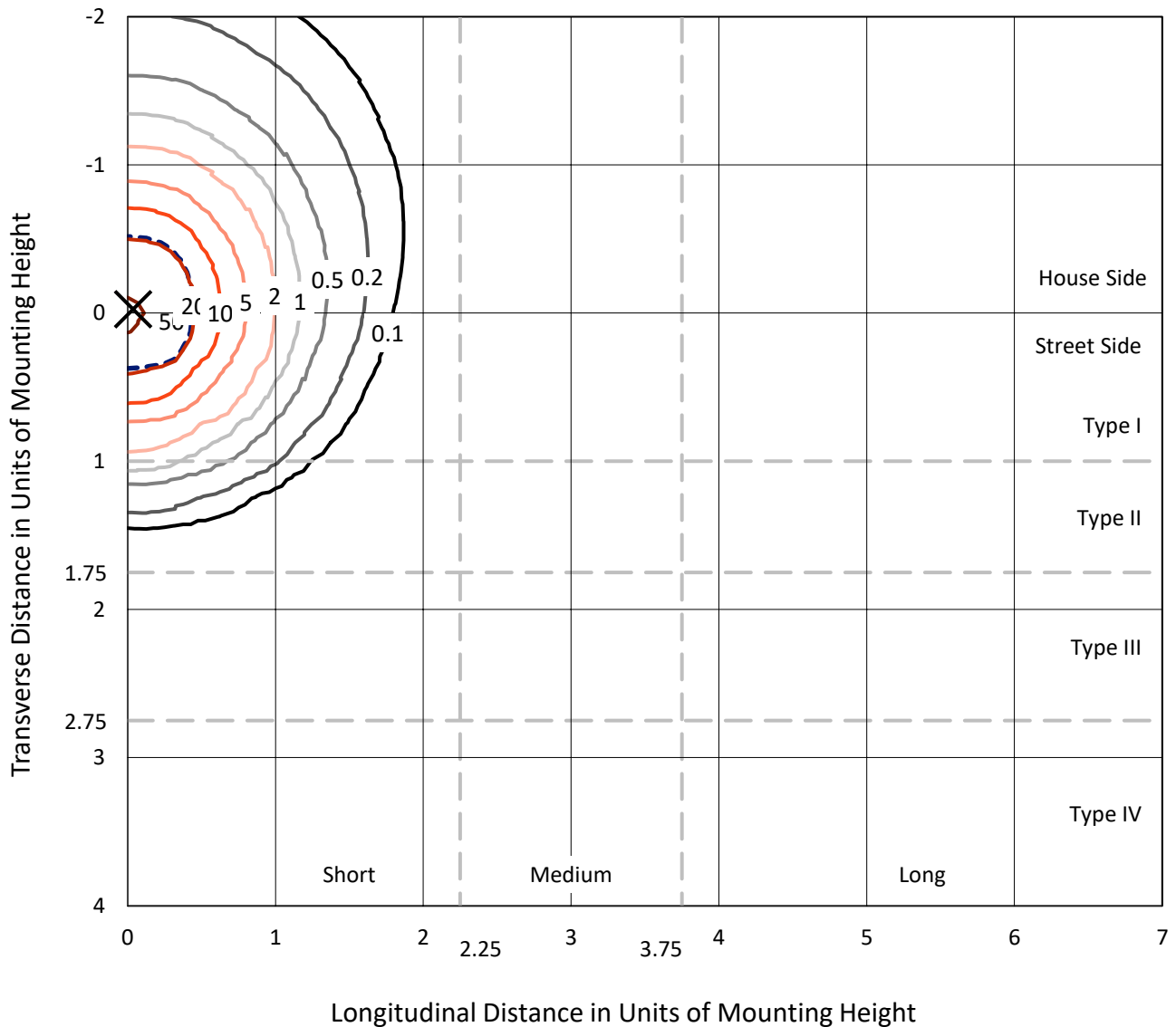
Lumens per Lamp: N/A  
Luminaire Lumens: 18083.7 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

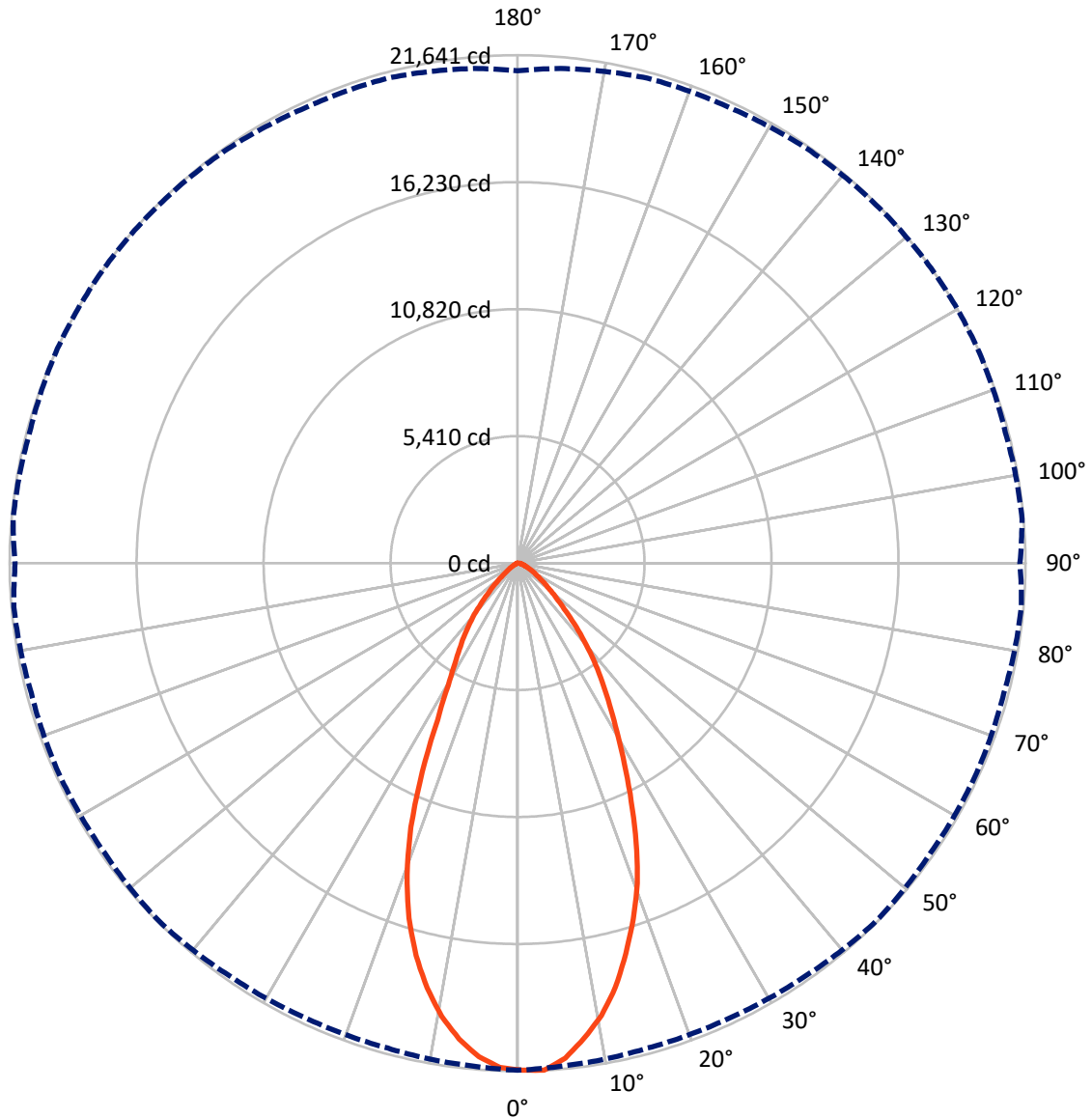
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10261.4	0.0	10261.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	7822.3	0.0	7822.3
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	18083.7	0.0	18083.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1961.9	10.8
10°-20°	4676.7	25.9
20°-30°	4763.1	26.3
30°-40°	3551.8	19.6
40°-50°	1855.6	10.3
50°-60°	780.5	4.3
60°-70°	318.7	1.8
70°-80°	134.1	0.7
80°-90°	41.3	0.2
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°	18083.7	100.0
0°-180°	18083.7	100.0



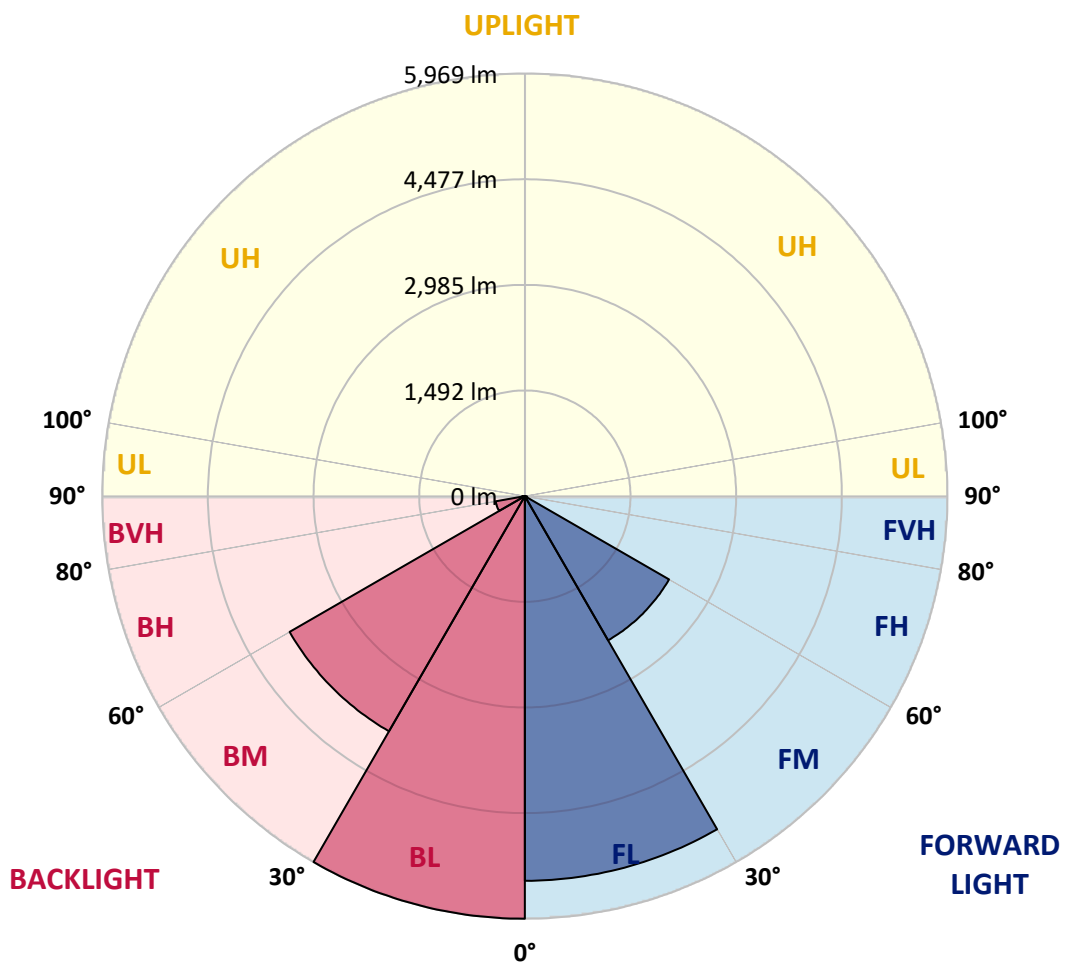
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5432.6	30.0			
FM	(30°-60°)	2351.9	13.0			
FH	(60°-80°)	34.0	0.2			G0/660
FVH	(80°-90°)	3.8	0.0			G0/10
BL	(0°-30°)	5969.1	33.0	B5		
BM	(30°-60°)	3836.0	21.2	B3/5000		
BH	(60°-80°)	418.8	2.3	B1/500		G1/500
BVH	(80°-90°)	37.5	0.2			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6
2.5°	21608.0	21519.7	21394.3	21382.6	21447.7	21589.4	21498.8	21503.4	21447.7	21542.9
5°	21268.8	21185.2	21099.2	20985.4	21080.7	21141.1	21094.6	21043.5	20971.5	21064.4
7.5°	20627.7	20581.2	20453.5	20402.4	20460.4	20527.8	20427.9	20414.0	20314.1	20434.9
10°	19647.4	19628.8	19503.4	19473.2	19524.3	19626.5	19582.4	19573.1	19510.4	19498.7
12.5°	18630.0	18558.0	18402.3	18393.0	18469.7	18623.0	18504.5	18390.7	18425.5	18455.7
15°	16009.7	15933.0	16318.6	16924.9	17243.2	17231.6	17266.4	17129.3	17087.5	17101.5
17.5°	12727.4	12597.3	12736.7	13675.1	15187.4	16065.4	15823.9	15528.8	15370.9	15266.4
20°	10985.2	10992.1	10966.6	11208.2	12151.3	14153.7	14095.6	13526.5	13319.7	13233.8
22.5°	9925.9	9886.4	9830.7	9907.3	10160.5	11335.9	12123.4	11600.8	11528.7	11433.5
25°	8887.6	8887.6	8820.2	8896.9	8968.9	8985.1	9774.9	9988.6	9849.3	9849.3
27.5°	7988.6	7942.1	7911.9	7946.8	7851.5	7393.9	7493.8	8587.9	8492.7	8434.6
30°	7096.6	7082.6	7031.5	7078.0	6724.9	6209.2	6000.1	7247.6	7347.5	7326.5
32.5°	5858.5	5914.2	6141.8	6213.9	5609.9	5194.1	4994.3	6016.4	6416.0	6399.7
35°	3981.5	4028.0	4288.1	5147.6	4650.5	4353.2	4295.1	4785.3	5442.6	5505.4
37.5°	3170.8	3163.8	3238.2	3391.5	3737.6	3665.6	3649.3	3777.1	4439.1	4467.0
40°	2613.3	2604.0	2601.7	2476.3	2390.3	3047.7	3003.6	2926.9	3500.7	3556.4
42.5°	2106.9	2116.2	2123.2	1849.1	1723.6	2350.8	2325.3	2246.3	2745.7	2810.8
45°	1653.9	1651.6	1665.5	1377.5	1342.7	1502.9	1737.6	1674.8	2072.1	2141.7
47.5°	857.2	887.4	1075.5	1066.2	1082.5	1066.2	1314.8	1298.5	1558.7	1670.2
50°	576.1	585.4	601.6	604.0	852.5	785.2	892.0	1010.5	1091.8	1263.7
52.5°	446.0	453.0	411.2	385.6	522.7	580.7	585.4	699.2	761.9	936.1
55°	248.6	278.8	299.7	302.0	288.0	429.7	427.4	518.0	566.8	682.9
57.5°	32.5	39.5	60.4	195.1	192.8	239.3	299.7	376.3	404.2	499.4
60°	2.3	4.6	7.0	30.2	127.8	139.4	204.4	234.6	281.1	350.8
62.5°	0.0	0.0	2.3	7.0	25.6	81.3	106.9	123.1	164.9	230.0
65°	0.0	0.0	2.3	4.6	9.3	30.2	41.8	67.4	97.6	141.7
67.5°	0.0	0.0	2.3	4.6	7.0	11.6	18.6	30.2	51.1	85.9
70°	0.0	0.0	2.3	4.6	7.0	9.3	13.9	18.6	27.9	46.5
72.5°	0.0	0.0	2.3	2.3	4.6	11.6	11.6	13.9	18.6	25.6
75°	0.0	0.0	2.3	4.6	7.0	11.6	11.6	11.6	13.9	16.3
77.5°	0.0	0.0	2.3	4.6	7.0	11.6	9.3	11.6	11.6	11.6
80°	0.0	0.0	2.3	4.6	7.0	11.6	13.9	11.6	9.3	9.3
82.5°	0.0	0.0	2.3	7.0	7.0	16.3	16.3	16.3	7.0	7.0
85°	0.0	0.0	4.6	7.0	11.6	18.6	18.6	13.9	7.0	4.6
87.5°	0.0	0.0	2.3	4.6	4.6	9.3	13.9	11.6	4.6	2.3
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°
21605.6	0°	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6	21605.6
21403.6	2.5°	21575.5	21517.4	21626.6	21640.5	21594.0	21536.0	21401.2	21389.6	21155.0
20929.7	5°	21166.6	21071.4	21141.1	21187.5	21171.3	21108.5	21052.8	21001.7	20790.3
20160.8	7.5°	20404.7	20369.8	20402.4	20437.2	20504.6	20437.2	20414.0	20360.6	20151.5
19403.5	10°	19559.1	19494.1	19617.2	19601.0	19582.4	19563.8	19466.2	19475.5	19229.3
18372.1	12.5°	18520.8	18411.6	18530.1	18544.0	18530.1	18465.0	18355.9	18402.3	18177.0
16978.4	15°	17124.7	17113.1	17199.0	17254.8	17294.3	17224.6	17187.4	17210.7	17075.9
15185.0	17.5°	15410.4	15561.4	15842.4	15937.7	15940.0	16012.0	15991.1	15963.2	15863.3
13198.9	20°	13394.1	13684.4	14116.5	14560.2	14687.9	14627.5	14599.7	14650.8	14502.1
11333.6	22.5°	11533.4	11781.9	12283.7	12931.8	13305.8	13343.0	13336.0	13291.9	13233.8
9840.0	25°	9953.8	10174.5	10655.3	11247.7	11965.5	12072.3	12077.0	12063.0	12011.9
8485.7	27.5°	8620.4	8887.6	9152.4	9682.0	10446.3	10887.6	10831.9	10815.6	10797.0
7342.8	30°	7412.5	7749.3	7997.9	8327.7	9013.0	9610.0	9668.1	9640.2	9596.1
6397.4	32.5°	6455.4	6655.2	6971.1	7194.1	7686.6	8362.6	8585.6	8564.7	8525.2
5544.9	35°	5623.8	5702.8	5951.4	6199.9	6527.5	7182.5	7512.4	7465.9	7459.0
4518.1	37.5°	4631.9	4896.8	5033.8	5284.7	5514.7	6023.4	6478.7	6457.8	6460.1
3633.1	40°	3739.9	3893.2	4165.0	4376.4	4587.8	4959.5	5465.9	5479.8	5475.2
2813.1	42.5°	2871.2	3019.8	3305.5	3535.5	3723.7	3953.6	4436.8	4453.1	4474.0
2190.5	45°	2241.6	2336.9	2545.9	2785.2	2985.0	3124.4	3491.4	3595.9	3598.2
1698.1	47.5°	1739.9	1849.1	1997.7	2227.7	2422.8	2522.7	2789.8	2931.5	2924.6
1303.2	50°	1365.9	1465.8	1586.6	1767.8	1979.1	2058.1	2255.6	2394.9	2388.0
982.6	52.5°	1045.3	1173.1	1279.9	1419.3	1626.1	1693.4	1835.1	1995.4	1972.2
720.1	55°	792.1	922.2	1022.1	1138.2	1326.4	1412.3	1509.9	1637.7	1642.3
557.5	57.5°	597.0	731.7	822.3	940.8	1082.5	1177.7	1252.1	1389.1	1386.8
381.0	60°	427.4	543.6	652.7	775.9	885.0	994.2	1045.3	1175.4	1180.1
269.5	62.5°	309.0	418.1	522.7	629.5	727.1	833.9	880.4	982.6	996.5
176.5	65°	216.0	292.7	413.5	494.8	604.0	682.9	743.3	831.6	847.9
104.5	67.5°	139.4	211.4	327.5	399.5	499.4	566.8	629.5	699.2	720.1
67.4	70°	83.6	160.3	243.9	320.6	411.2	471.6	532.0	592.3	604.0
32.5	72.5°	53.4	111.5	176.5	260.2	329.9	394.9	448.3	492.5	457.6
20.9	75°	30.2	76.7	139.4	204.4	267.1	329.9	374.0	397.2	318.2
13.9	77.5°	18.6	55.8	113.8	164.9	206.7	264.8	292.7	306.6	227.6
9.3	80°	11.6	41.8	95.2	134.7	134.7	195.1	227.6	239.3	164.9
7.0	82.5°	9.3	30.2	74.3	102.2	90.6	146.3	178.9	181.2	116.1
4.6	85°	7.0	23.2	46.5	67.4	62.7	102.2	104.5	116.1	76.7
4.6	87.5°	4.6	13.9	27.9	39.5	34.8	48.8	55.8	62.7	41.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
21605.6
20971.5
20620.7
20107.4
19145.7
18112.0
16913.3
15714.7
14395.2
13122.3
11840.0
10687.8
9540.3
8420.7
7382.3
6385.8
5393.9
4404.3
3537.8
2899.0
2388.0
1974.5
1642.3
1382.1
1168.4
991.9
843.2
717.8
594.7
425.1
302.0
213.7
153.3
106.9
69.7
37.2
0.0

(END OF REPORT)