

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: P638143

Luminaire Tested: **IFLD-S-SA6E-735-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638143  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-735-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

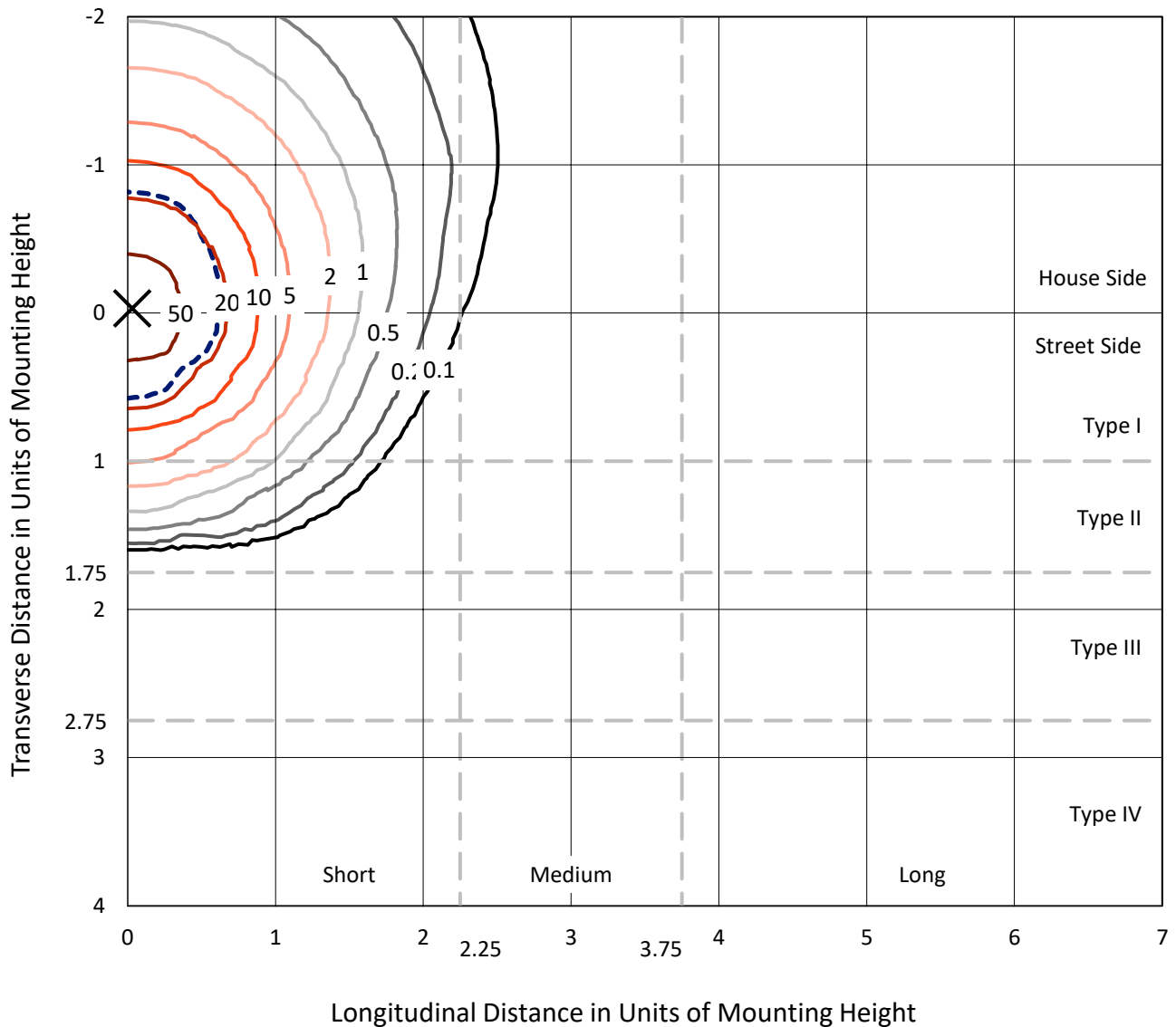
Lumens per Lamp: N/A  
Luminaire Lumens: 40142.3 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

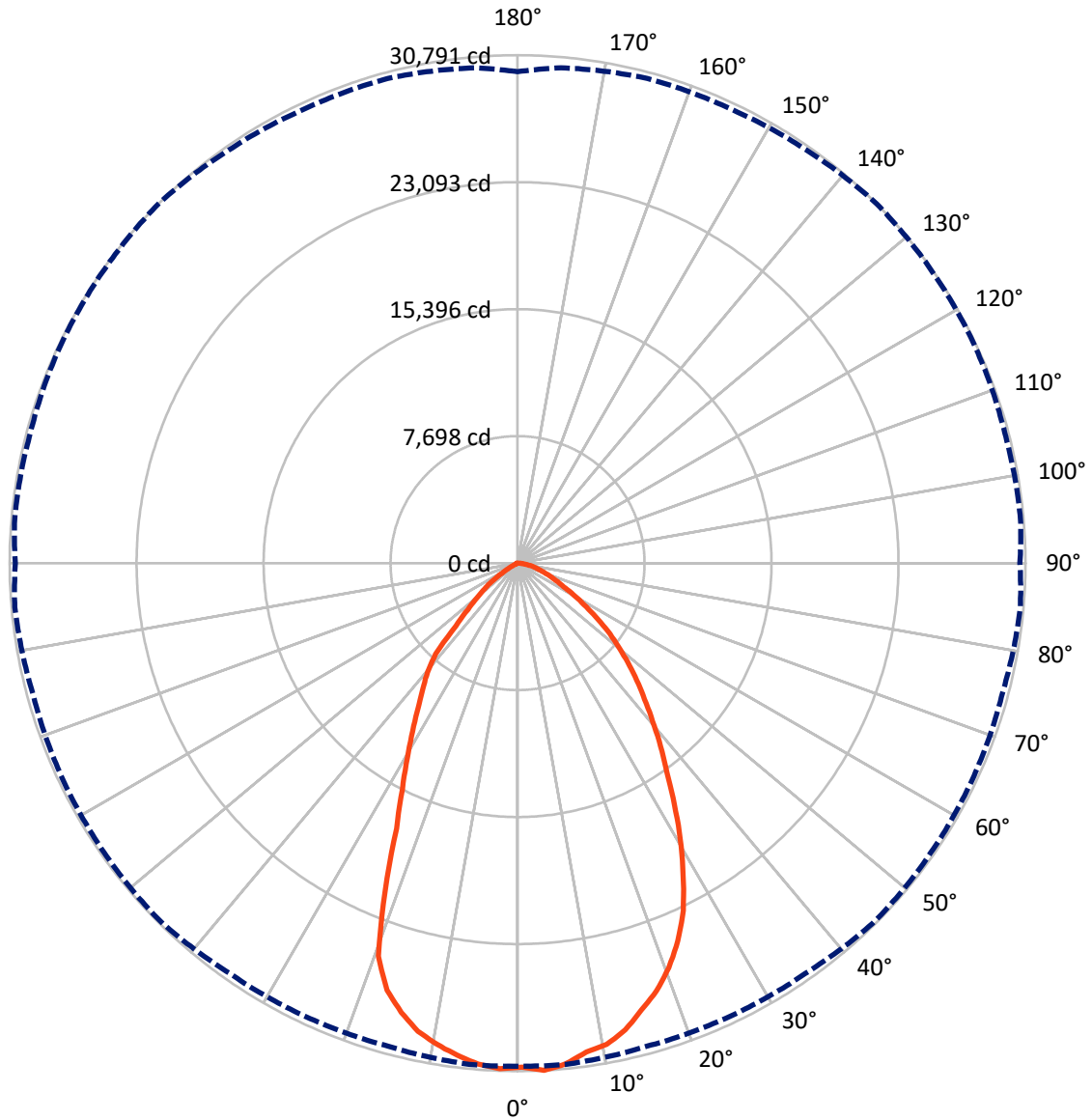
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 76.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23774.3	0.0	23774.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	16368.0	0.0	16368.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	40142.3	0.0	40142.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2864.9	7.1
10°-20°	7682.5	19.1
20°-30°	9369.2	23.3
30°-40°	8554.0	21.3
40°-50°	6181.8	15.4
50°-60°	3375.3	8.4
60°-70°	1395.6	3.5
70°-80°	565.2	1.4
80°-90°	153.7	0.4
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°	40142.3	100.0
0°-180°	40142.3	100.0



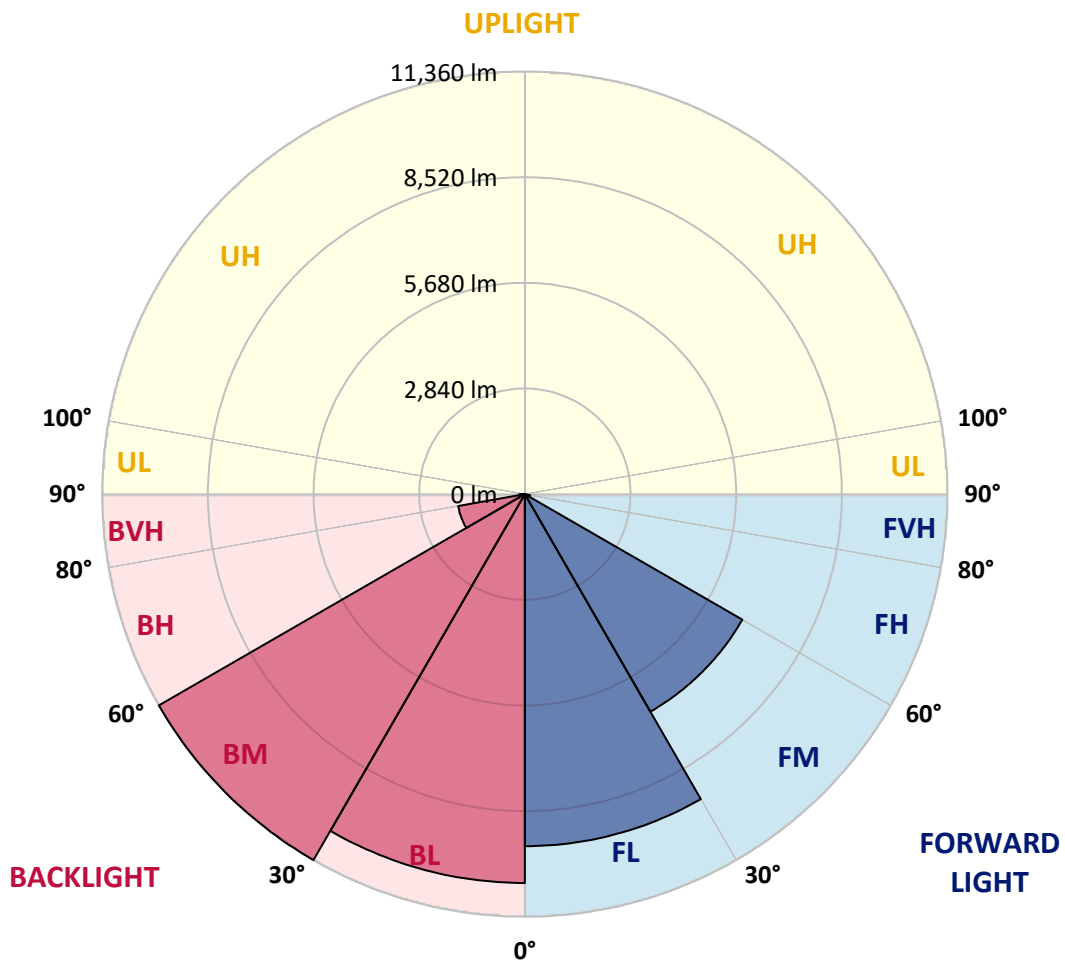
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9463.0	23.6			
FM	(30°-60°)	6751.2	16.8			
FH	(60°-80°)	141.5	0.4			G0/660
FVH	(80°-90°)	12.3	0.0			G1/100
BL	(0°-30°)	10453.6	26.0	B5		
BM	(30°-60°)	11359.9	28.3	B5		
BH	(60°-80°)	1819.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	141.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1
2.5°	30491.6	30531.2	30316.4	30339.0	30378.5	30666.8	30593.3	30525.5	30429.4	30593.3
5°	30452.0	30474.6	30248.5	30169.4	30203.3	30463.3	30225.9	30225.9	30203.3	30175.0
7.5°	30146.8	30158.1	29982.8	29841.5	29932.0	30050.7	29875.4	29960.2	29835.9	29932.0
10°	29688.9	29615.4	29406.2	29366.7	29468.4	29581.5	29462.8	29541.9	29428.9	29502.3
12.5°	29016.2	28903.1	28733.5	28682.7	28857.9	29010.5	28914.4	28869.2	28722.2	28903.1
15°	26421.5	26336.7	26721.1	27393.8	27998.7	28128.7	28026.9	28072.2	27766.9	27817.8
17.5°	21746.6	21588.3	22001.0	23595.1	25867.5	27066.0	26975.5	26681.6	26229.3	26331.1
20°	19762.4	19717.2	19672.0	20050.7	21639.2	25274.0	25398.4	24652.2	24007.7	23866.4
22.5°	18643.2	18626.2	18581.0	18665.8	19084.1	21418.7	22843.3	22153.6	21724.0	21684.4
25°	17620.0	17591.7	17456.1	17563.5	17563.5	17699.1	19525.0	19943.3	19564.6	19519.4
27.5°	16579.9	16529.0	16506.4	16557.3	16297.2	15381.5	15845.0	17885.7	17687.8	17699.1
30°	15455.0	15438.0	15375.8	15483.2	14680.5	13544.3	13250.3	16020.2	16059.8	16048.5
32.5°	13781.7	13855.2	14137.8	14256.5	12933.8	11995.4	11503.6	13860.8	14669.2	14652.2
35°	10011.2	10011.2	10932.7	12645.5	11334.0	10627.4	10361.7	11752.3	13295.6	13352.1
37.5°	8230.6	8258.8	8439.7	9219.8	9779.5	9530.7	9451.6	9892.5	11531.9	11622.3
40°	7405.3	7405.3	7405.3	7083.0	7066.1	8586.7	8541.5	8400.2	9960.4	10158.2
42.5°	6653.4	6670.4	6681.7	5867.7	5415.5	7422.2	7320.5	7105.7	8552.8	8784.6
45°	5879.0	5907.3	5941.2	4906.7	4708.8	5342.0	6195.5	5958.1	7162.2	7461.8
47.5°	3589.6	3634.8	4403.6	4160.5	4183.1	4120.9	5053.7	5014.1	5873.3	6297.3
50°	2425.1	2442.0	2515.5	2639.9	3589.6	3239.1	3578.3	4149.2	4460.1	5104.5
52.5°	2035.0	2063.3	1882.4	1712.8	2357.2	2532.5	2498.6	3080.8	3205.2	4002.2
55°	1430.2	1520.6	1435.8	1418.9	1339.7	1967.2	1893.7	2368.6	2447.7	3041.2
57.5°	147.0	169.6	293.9	1057.1	876.2	1113.6	1351.0	1735.4	1814.6	2244.2
60°	11.3	11.3	28.3	147.0	638.8	667.0	932.7	1068.4	1221.0	1565.8
62.5°	0.0	5.7	11.3	22.6	101.8	356.1	469.2	559.6	734.9	1011.9
65°	0.0	0.0	5.7	17.0	22.6	135.7	180.9	293.9	401.4	627.5
67.5°	0.0	0.0	5.7	11.3	17.0	33.9	62.2	107.4	214.8	356.1
70°	0.0	0.0	5.7	11.3	17.0	28.3	45.2	67.8	96.1	192.2
72.5°	0.0	0.0	5.7	5.7	11.3	28.3	33.9	45.2	67.8	96.1
75°	0.0	0.0	5.7	5.7	17.0	33.9	28.3	33.9	45.2	62.2
77.5°	0.0	0.0	5.7	11.3	17.0	33.9	28.3	33.9	33.9	39.6
80°	0.0	0.0	5.7	11.3	22.6	39.6	33.9	33.9	28.3	28.3
82.5°	0.0	0.0	5.7	17.0	22.6	50.9	50.9	45.2	22.6	17.0
85°	0.0	0.0	11.3	22.6	33.9	56.5	56.5	45.2	17.0	11.3
87.5°	0.0	0.0	11.3	17.0	28.3	39.6	56.5	45.2	17.0	5.7
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°
30548.1	0°	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1	30548.1
30452.0	2.5°	30604.6	30570.7	30683.8	30729.0	30791.2	30553.8	30406.8	30412.5	30141.1
30107.2	5°	30288.1	30293.7	30440.7	30429.4	30491.6	30361.6	30305.0	30208.9	29971.5
29671.9	7.5°	29886.7	29835.9	29977.2	30084.6	29926.3	30016.8	29886.7	29932.0	29790.6
29287.5	10°	29575.8	29457.1	29587.1	29660.6	29666.3	29575.8	29451.5	29332.8	29281.9
28688.3	12.5°	28886.2	28733.5	28954.0	29055.8	29038.8	28863.6	28722.2	28750.5	28586.6
27636.9	15°	27936.5	27942.1	28100.4	28196.5	28106.1	28066.5	28077.8	28010.0	27868.7
26184.1	17.5°	26483.7	26568.5	26986.8	27218.6	27269.5	27190.3	27150.7	27071.6	26930.3
23866.4	20°	24064.3	24573.0	25319.2	26037.1	26178.5	26155.8	26014.5	25980.6	25901.5
21571.4	22.5°	21938.8	22317.5	23182.4	24301.7	24878.3	24934.8	24765.2	24714.4	24629.6
19519.4	25°	19739.8	20146.8	20926.9	22142.3	23335.1	23578.1	23549.9	23397.2	23306.8
17699.1	27.5°	17885.7	18292.7	18999.3	20096.0	21373.5	22153.6	22227.1	21984.0	21978.4
16076.8	30°	16212.4	16772.1	17309.1	18202.2	19440.2	20610.4	20734.7	20565.1	20582.1
14590.1	32.5°	14901.0	15364.5	15822.4	16421.6	17450.4	18812.8	19298.9	19140.6	19078.4
13352.1	35°	13561.2	13877.8	14347.0	14895.3	15596.3	16947.3	17789.6	17670.9	17608.7
11678.8	37.5°	12035.0	12577.6	12916.8	13533.0	14081.3	15155.4	16342.5	16325.5	16195.5
10254.3	40°	10469.1	11040.1	11554.5	12176.3	12600.3	13453.8	14771.0	14765.3	14782.3
8778.9	42.5°	9050.2	9576.0	10197.8	10876.1	11283.1	11904.9	13318.2	13397.3	13493.4
7563.5	45°	7767.0	8241.9	8818.5	9643.8	10135.6	10491.7	11746.7	12108.5	12102.8
6478.2	47.5°	6613.9	7060.4	7546.6	8349.3	8976.8	9299.0	10339.1	10853.5	10819.6
5313.7	50°	5551.1	5946.8	6455.6	7037.8	7880.1	8162.7	8937.2	9615.5	9564.7
4234.0	52.5°	4465.8	5014.1	5443.7	5975.1	6862.6	7139.6	7738.8	8400.2	8360.6
3176.9	55°	3482.2	4013.5	4533.6	4991.5	5737.7	6150.3	6579.9	7258.3	7247.0
2487.3	57.5°	2634.2	3216.5	3708.3	4143.6	4737.1	5245.9	5590.7	6206.9	6286.0
1701.5	60°	1950.2	2396.8	2928.2	3414.3	3883.5	4409.2	4641.0	5245.9	5279.8
1164.5	62.5°	1328.4	1820.2	2340.3	2781.2	3131.7	3674.4	3883.5	4381.0	4443.2
746.2	65°	921.4	1238.0	1831.5	2148.1	2577.7	3041.2	3250.4	3646.1	3770.5
429.6	67.5°	610.5	881.8	1430.2	1718.5	2142.4	2459.0	2724.7	3046.9	3182.6
271.3	70°	333.5	650.1	1023.2	1356.7	1724.1	2029.4	2289.4	2549.4	2668.2
124.4	72.5°	226.1	435.3	712.3	1074.0	1390.6	1690.2	1922.0	2114.2	2119.8
73.5	75°	113.1	293.9	542.7	831.0	1085.4	1379.3	1588.5	1701.5	1565.8
45.2	77.5°	67.8	214.8	440.9	667.0	881.8	1113.6	1232.3	1294.5	1074.0
33.9	80°	39.6	152.6	344.8	531.4	610.5	819.7	932.7	949.7	717.9
22.6	82.5°	28.3	113.1	271.3	390.0	373.1	576.6	701.0	678.3	457.9
17.0	85°	17.0	79.1	169.6	243.1	226.1	378.7	407.0	418.3	265.7
11.3	87.5°	11.3	45.2	90.4	130.0	107.4	163.9	163.9	197.9	130.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
30548.1
29790.6
29915.0
29553.2
29055.8
28445.3
27727.3
26868.1
25720.6
24607.0
23210.7
21967.1
20497.3
19084.1
17523.9
16302.9
14782.3
13442.5
12114.1
10830.9
9609.9
8445.4
7275.2
6252.1
5330.7
4454.5
3742.2
3165.6
2622.9
2069.0
1464.1
1034.5
672.7
424.0
243.1
113.1
0.0

(END OF REPORT)