

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: P636763

Luminaire Tested: **IFLD-L-SA8B-930-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636763  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-930-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20035.1 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

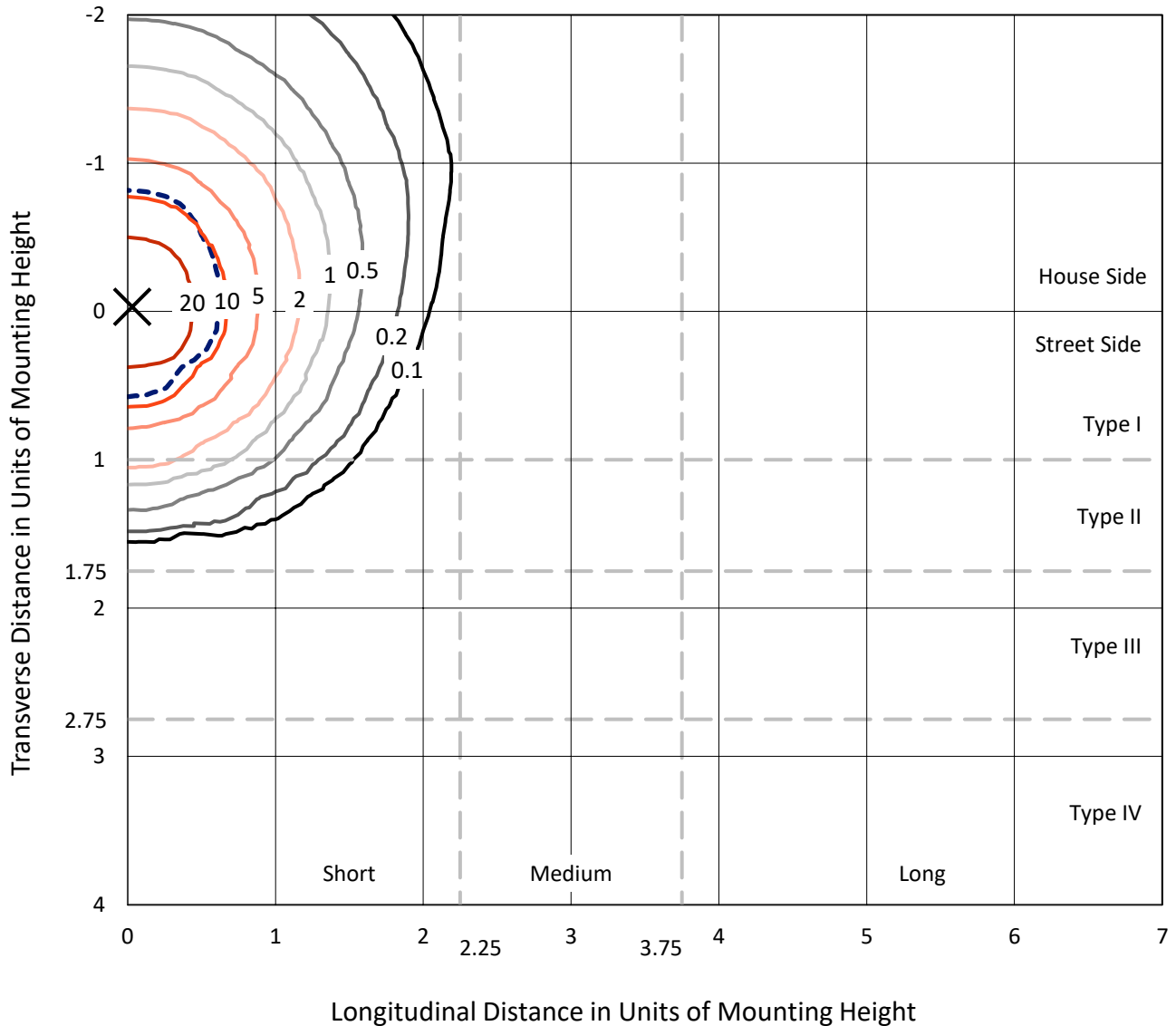
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

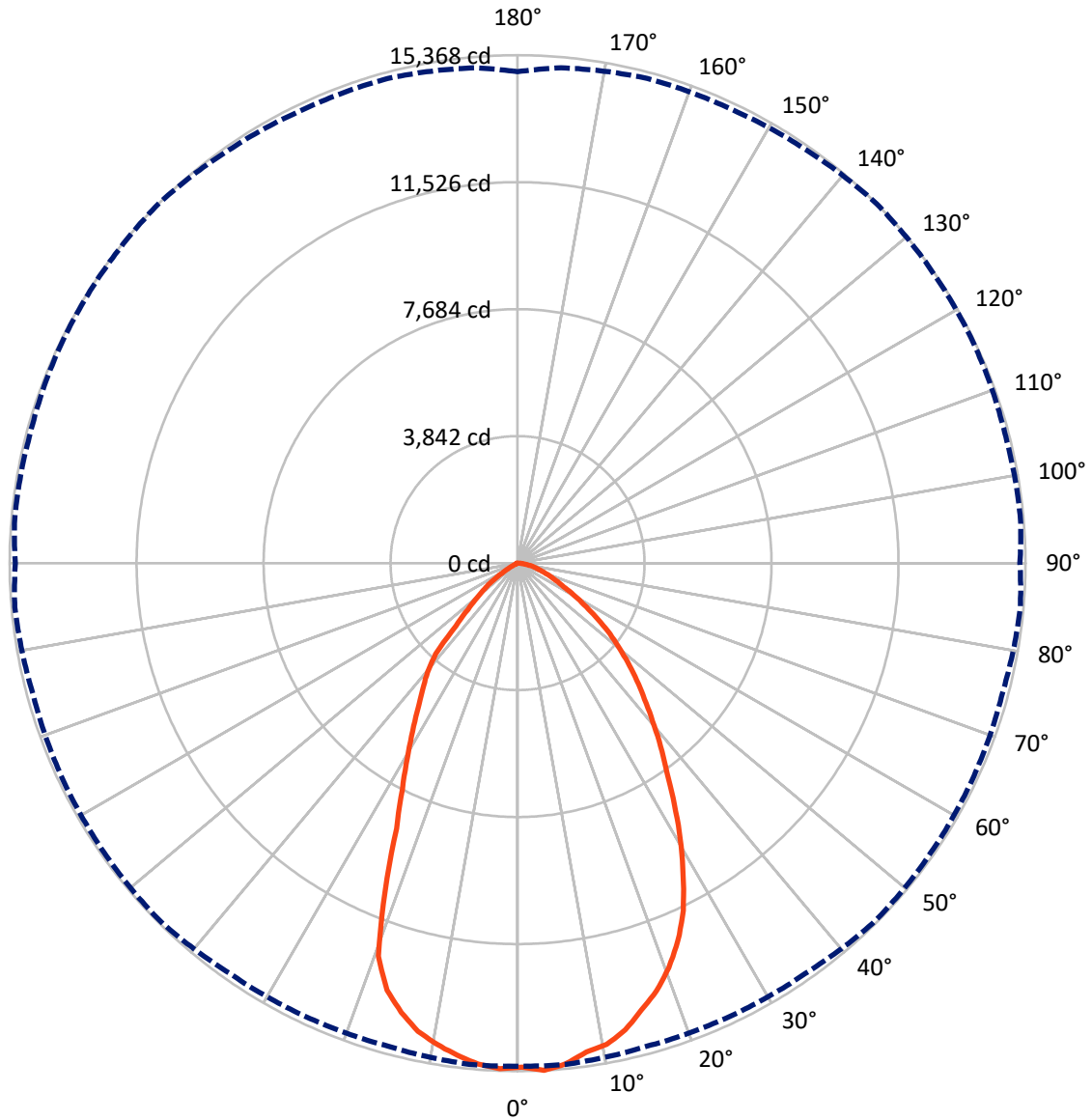
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.1 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	11865.8	0.0	11865.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8169.3	0.0	8169.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	20035.1	0.0	20035.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1429.9	7.1
10°-20°	3834.3	19.1
20°-30°	4676.2	23.3
30°-40°	4269.3	21.3
40°-50°	3085.3	15.4
50°-60°	1684.6	8.4
60°-70°	696.5	3.5
70°-80°	282.1	1.4
80°-90°	76.7	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°	20035.1	100.0
0°-180°	20035.1	100.0



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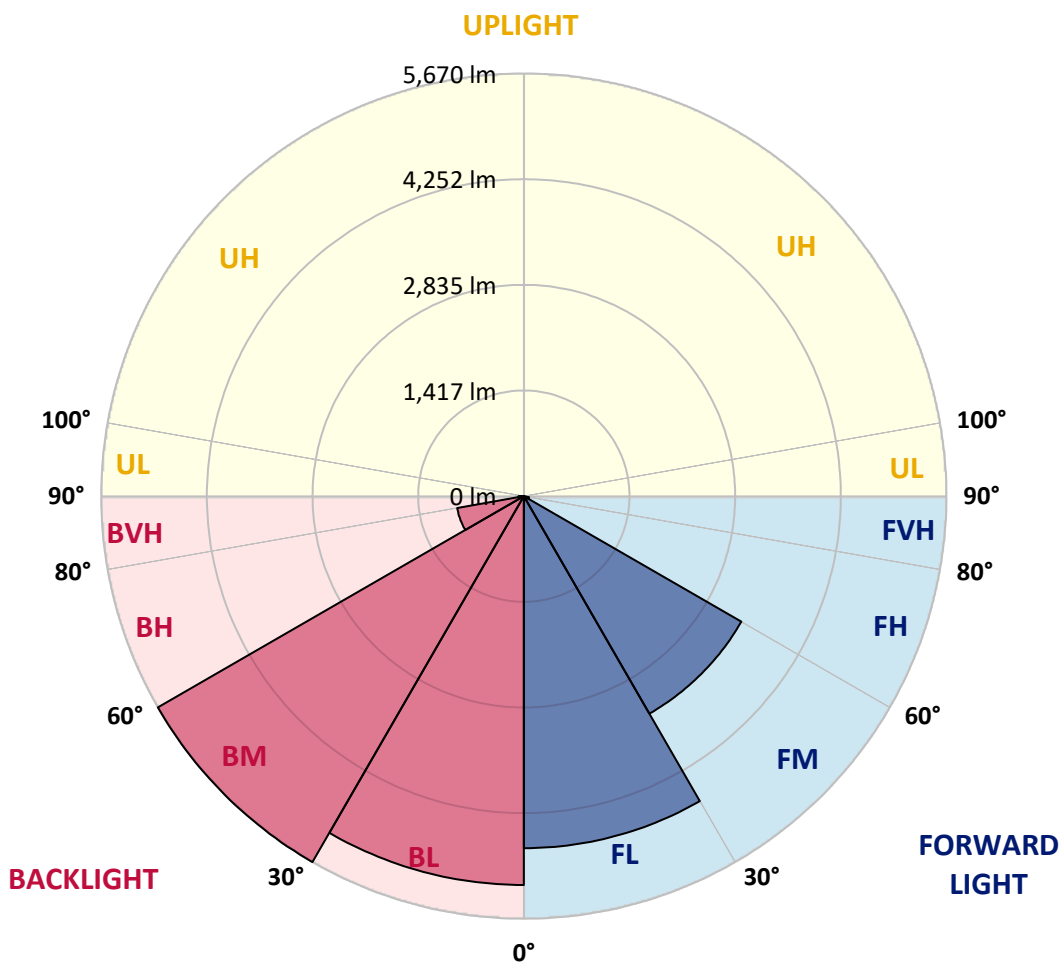
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4723.0	23.6			
FM (30°-60°)	3369.5	16.8			
FH (60°-80°)	70.6	0.4			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	5217.4	26.0	B5		
BM (30°-60°)	5669.8	28.3	B4/8500		
BH (60°-80°)	908.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	70.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6
2.5°	15218.4	15238.2	15130.9	15142.2	15162.0	15305.9	15269.2	15235.3	15187.4	15269.2
5°	15198.7	15209.9	15097.1	15057.6	15074.5	15204.3	15085.8	15085.8	15074.5	15060.4
7.5°	15046.3	15051.9	14964.5	14894.0	14939.1	14998.3	14910.9	14953.2	14891.1	14939.1
10°	14817.8	14781.1	14676.7	14657.0	14707.7	14764.2	14704.9	14744.4	14688.0	14724.7
12.5°	14482.0	14425.6	14341.0	14315.6	14403.0	14479.2	14431.2	14408.7	14335.3	14425.6
15°	13187.0	13144.7	13336.6	13672.3	13974.2	14039.1	13988.3	14010.9	13858.5	13883.9
17.5°	10853.8	10774.8	10980.7	11776.4	12910.5	13508.7	13463.5	13316.8	13091.1	13141.9
20°	9863.5	9840.9	9818.3	10007.4	10800.2	12614.3	12676.4	12303.9	11982.3	11911.8
22.5°	9304.8	9296.4	9273.8	9316.1	9524.9	10690.1	11401.1	11056.9	10842.5	10822.7
25°	8794.2	8780.1	8712.4	8766.0	8766.0	8833.7	9745.0	9953.8	9764.7	9742.2
27.5°	8275.0	8249.7	8238.4	8263.8	8134.0	7676.9	7908.3	8926.8	8828.0	8833.7
30°	7713.6	7705.1	7674.1	7727.7	7327.1	6760.0	6613.3	7995.7	8015.5	8009.8
32.5°	6878.5	6915.1	7056.2	7115.5	6455.3	5986.9	5741.5	6918.0	7321.4	7313.0
35°	4996.6	4996.6	5456.5	6311.4	5656.8	5304.2	5171.6	5865.6	6635.8	6664.0
37.5°	4107.9	4122.0	4212.3	4601.6	4881.0	4756.8	4717.3	4937.4	5755.6	5800.7
40°	3696.0	3696.0	3696.0	3535.2	3526.7	4285.6	4263.1	4192.5	4971.2	5070.0
42.5°	3320.7	3329.2	3334.8	2928.6	2702.9	3704.4	3653.7	3546.4	4268.7	4384.4
45°	2934.2	2948.3	2965.2	2448.9	2350.2	2666.2	3092.2	2973.7	3574.7	3724.2
47.5°	1791.6	1814.1	2197.8	2076.5	2087.8	2056.8	2522.3	2502.5	2931.4	3143.0
50°	1210.4	1218.8	1255.5	1317.6	1791.6	1616.6	1785.9	2070.9	2226.1	2547.7
52.5°	1015.7	1029.8	939.5	854.9	1176.5	1264.0	1247.0	1537.6	1599.7	1997.5
55°	713.8	758.9	716.6	708.2	668.7	981.8	945.2	1182.1	1221.6	1517.9
57.5°	73.4	84.6	146.7	527.6	437.3	555.8	674.3	866.2	905.7	1120.1
60°	5.6	5.6	14.1	73.4	318.8	332.9	465.5	533.2	609.4	781.5
62.5°	0.0	2.8	5.6	11.3	50.8	177.7	234.2	279.3	366.8	505.0
65°	0.0	0.0	2.8	8.5	11.3	67.7	90.3	146.7	200.3	313.2
67.5°	0.0	0.0	2.8	5.6	8.5	16.9	31.0	53.6	107.2	177.7
70°	0.0	0.0	2.8	5.6	8.5	14.1	22.6	33.9	48.0	95.9
72.5°	0.0	0.0	2.8	2.8	5.6	14.1	16.9	22.6	33.9	48.0
75°	0.0	0.0	2.8	2.8	8.5	16.9	14.1	16.9	22.6	31.0
77.5°	0.0	0.0	2.8	5.6	8.5	16.9	14.1	16.9	16.9	19.7
80°	0.0	0.0	2.8	5.6	11.3	19.7	16.9	16.9	14.1	14.1
82.5°	0.0	0.0	2.8	8.5	11.3	25.4	25.4	22.6	11.3	8.5
85°	0.0	0.0	5.6	11.3	16.9	28.2	28.2	22.6	8.5	5.6
87.5°	0.0	0.0	5.6	8.5	14.1	19.7	28.2	22.6	8.5	2.8
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°
15246.6	0°	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6	15246.6
15198.7	2.5°	15274.8	15257.9	15314.3	15336.9	15367.9	15249.4	15176.1	15178.9	15043.5
15026.6	5°	15116.8	15119.7	15193.0	15187.4	15218.4	15153.5	15125.3	15077.3	14958.8
14809.3	7.5°	14916.5	14891.1	14961.7	15015.3	14936.3	14981.4	14916.5	14939.1	14868.6
14617.5	10°	14761.3	14702.1	14767.0	14803.7	14806.5	14761.3	14699.3	14640.0	14614.6
14318.4	12.5°	14417.1	14341.0	14451.0	14501.8	14493.3	14405.9	14335.3	14349.4	14267.6
13793.6	15°	13943.2	13946.0	14025.0	14072.9	14027.8	14008.0	14013.7	13979.8	13909.3
13068.5	17.5°	13218.1	13260.4	13469.2	13584.8	13610.2	13570.7	13551.0	13511.5	13441.0
11911.8	20°	12010.5	12264.4	12636.9	12995.2	13065.7	13054.4	12983.9	12967.0	12927.5
10766.3	22.5°	10949.7	11138.7	11570.4	12129.0	12416.8	12445.0	12360.4	12335.0	12292.7
9742.2	25°	9852.2	10055.3	10444.7	11051.3	11646.6	11767.9	11753.8	11677.6	11632.5
8833.7	27.5°	8926.8	9129.9	9482.6	10029.9	10667.6	11056.9	11093.6	10972.3	10969.4
8023.9	30°	8091.7	8371.0	8639.0	9084.8	9702.7	10286.7	10348.7	10264.1	10272.6
7281.9	32.5°	7437.1	7668.5	7897.0	8196.0	8709.5	9389.5	9632.1	9553.1	9522.1
6664.0	35°	6768.4	6926.4	7160.6	7434.3	7784.1	8458.4	8878.8	8819.6	8788.5
5828.9	37.5°	6006.7	6277.5	6446.8	6754.3	7028.0	7564.1	8156.5	8148.1	8083.2
5117.9	40°	5225.2	5510.1	5766.9	6077.2	6288.8	6714.8	7372.2	7369.4	7377.9
4381.6	42.5°	4517.0	4779.4	5089.7	5428.3	5631.4	5941.8	6647.1	6686.6	6734.6
3775.0	45°	3876.5	4113.5	4401.3	4813.2	5058.7	5236.4	5862.8	6043.4	6040.5
3233.3	47.5°	3301.0	3523.9	3766.5	4167.1	4480.3	4641.1	5160.3	5417.0	5400.1
2652.1	50°	2770.6	2968.1	3222.0	3512.6	3933.0	4074.0	4460.6	4799.1	4773.7
2113.2	52.5°	2228.9	2502.5	2717.0	2982.2	3425.1	3563.4	3862.4	4192.5	4172.8
1585.6	55°	1738.0	2003.2	2262.7	2491.3	2863.7	3069.6	3284.1	3622.6	3617.0
1241.4	57.5°	1314.8	1605.4	1850.8	2068.1	2364.3	2618.2	2790.3	3097.9	3137.4
849.2	60°	973.4	1196.3	1461.5	1704.1	1938.3	2200.7	2316.3	2618.2	2635.1
581.2	62.5°	663.0	908.5	1168.0	1388.1	1563.0	1833.9	1938.3	2186.6	2217.6
372.4	65°	459.9	617.9	914.1	1072.1	1286.5	1517.9	1622.3	1819.8	1881.8
214.4	67.5°	304.7	440.1	713.8	857.7	1069.3	1227.3	1359.9	1520.7	1588.4
135.4	70°	166.5	324.5	510.7	677.1	860.5	1012.9	1142.7	1272.4	1331.7
62.1	72.5°	112.9	217.2	355.5	536.1	694.1	843.6	959.3	1055.2	1058.0
36.7	75°	56.4	146.7	270.9	414.7	541.7	688.4	792.8	849.2	781.5
22.6	77.5°	33.9	107.2	220.1	332.9	440.1	555.8	615.1	646.1	536.1
16.9	80°	19.7	76.2	172.1	265.2	304.7	409.1	465.5	474.0	358.3
11.3	82.5°	14.1	56.4	135.4	194.7	186.2	287.8	349.8	338.6	228.5
8.5	85°	8.5	39.5	84.6	121.3	112.9	189.0	203.1	208.8	132.6
5.6	87.5°	5.6	22.6	45.1	64.9	53.6	81.8	81.8	98.7	64.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
15246.6  
*14868.6*  
14930.6  
14750.1  
14501.8  
14197.1  
13838.8  
13409.9  
12837.2  
12281.4  
11584.5  
10963.8  
10230.2  
9524.9  
8746.2  
8136.8  
7377.9  
6709.2  
6046.2  
5405.7  
4796.3  
4215.1  
3631.1  
3120.4  
2660.5  
2223.2  
1867.7  
1580.0  
1309.1  
1032.6  
730.7  
516.3  
335.7  
211.6  
121.3  
56.4  
0.0

(END OF REPORT)