

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: P636736

Luminaire Tested: **IFLD-L-SA8D-927-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636736  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-927-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27147.5 lumens  
Efficiency: N/A  
Efficacy: 55.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

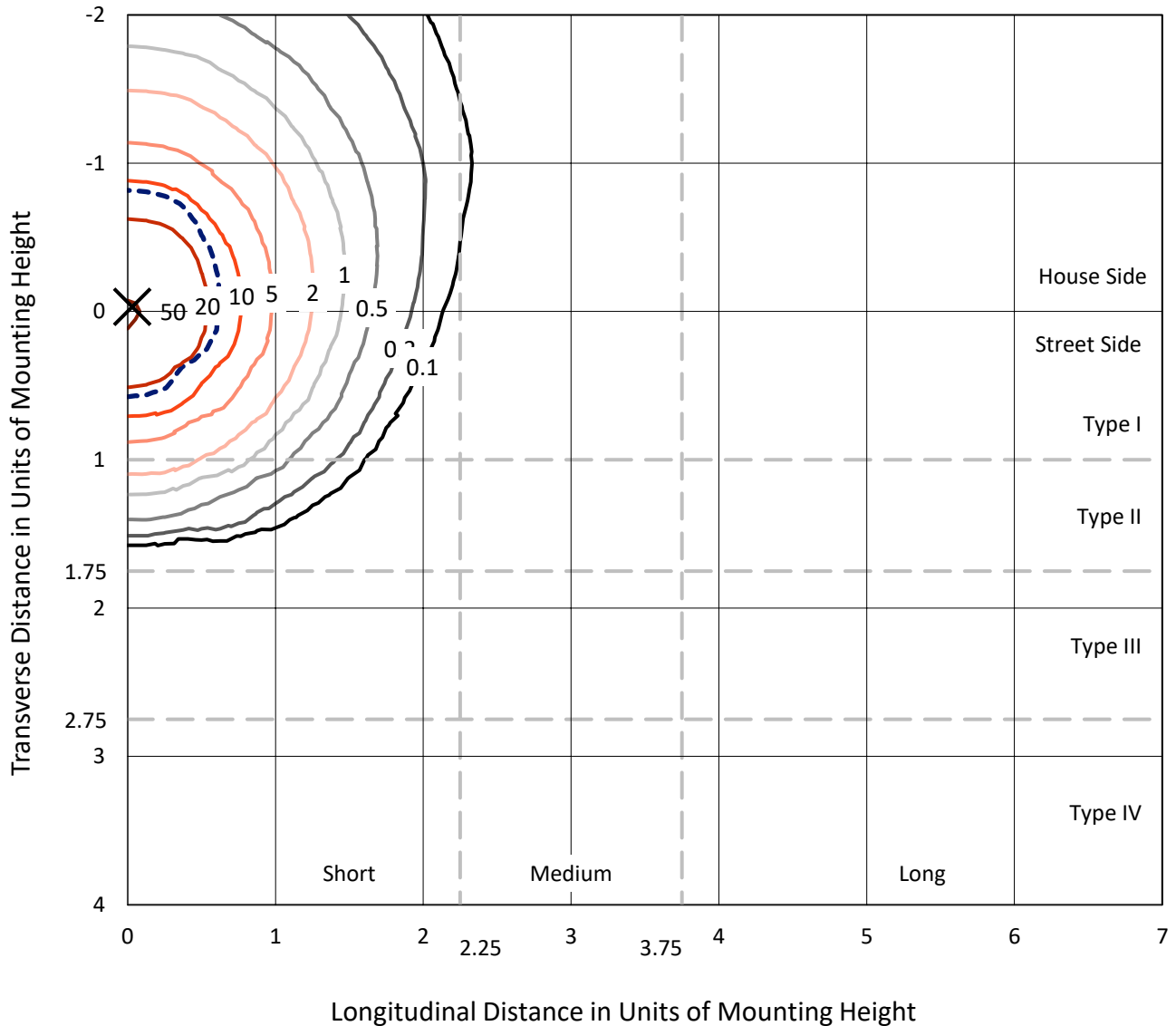
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

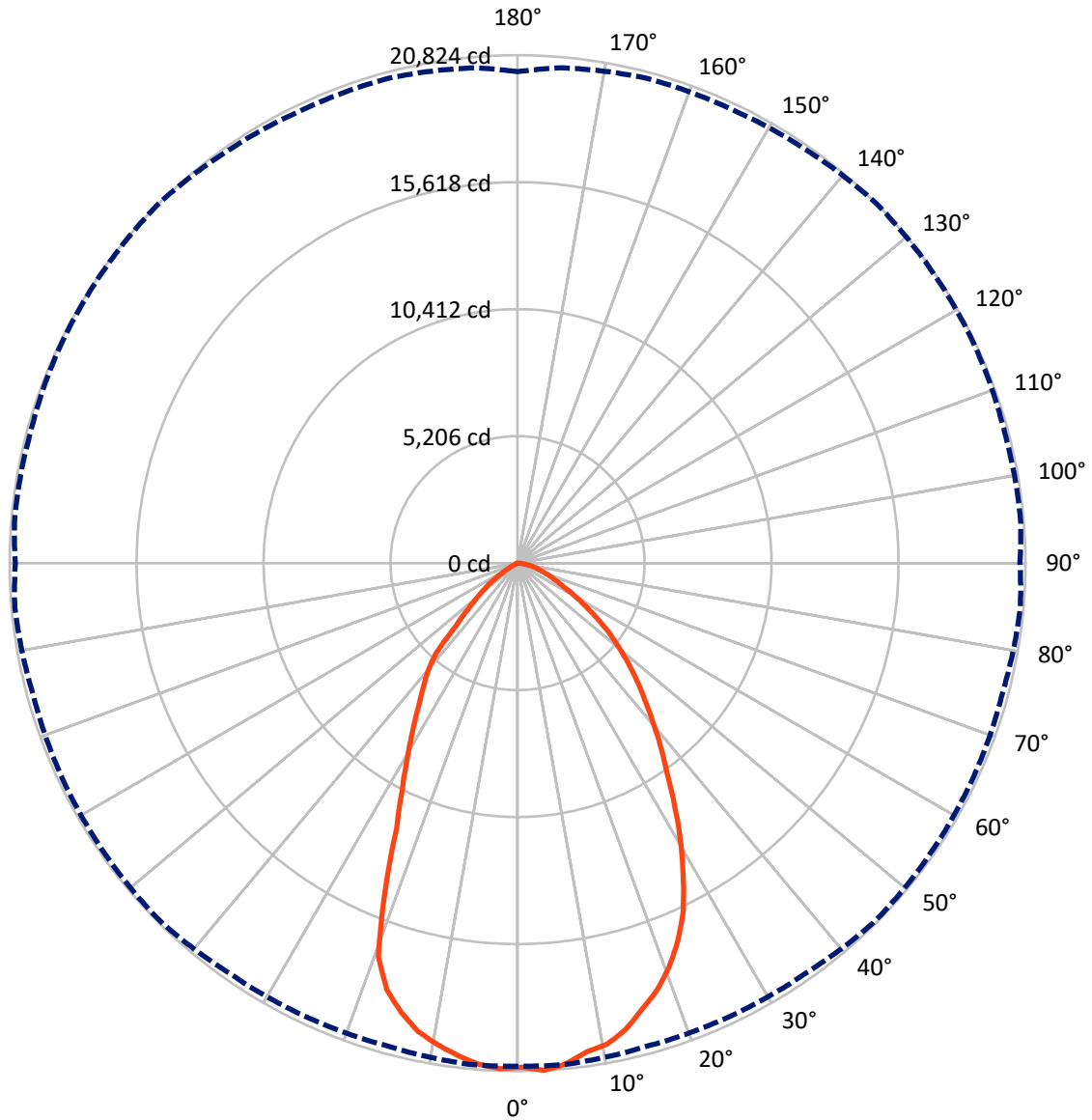
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.6 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	16078.1	0.0	16078.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11069.3	0.0	11069.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	27147.5	0.0	27147.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1937.5	7.1
10°-20°	5195.5	19.1
20°-30°	6336.2	23.3
30°-40°	5784.9	21.3
40°-50°	4180.6	15.4
50°-60°	2282.7	8.4
60°-70°	943.8	3.5
70°-80°	382.2	1.4
80°-90°	104.0	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°	27147.5	100.0
0°-180°	27147.5	100.0



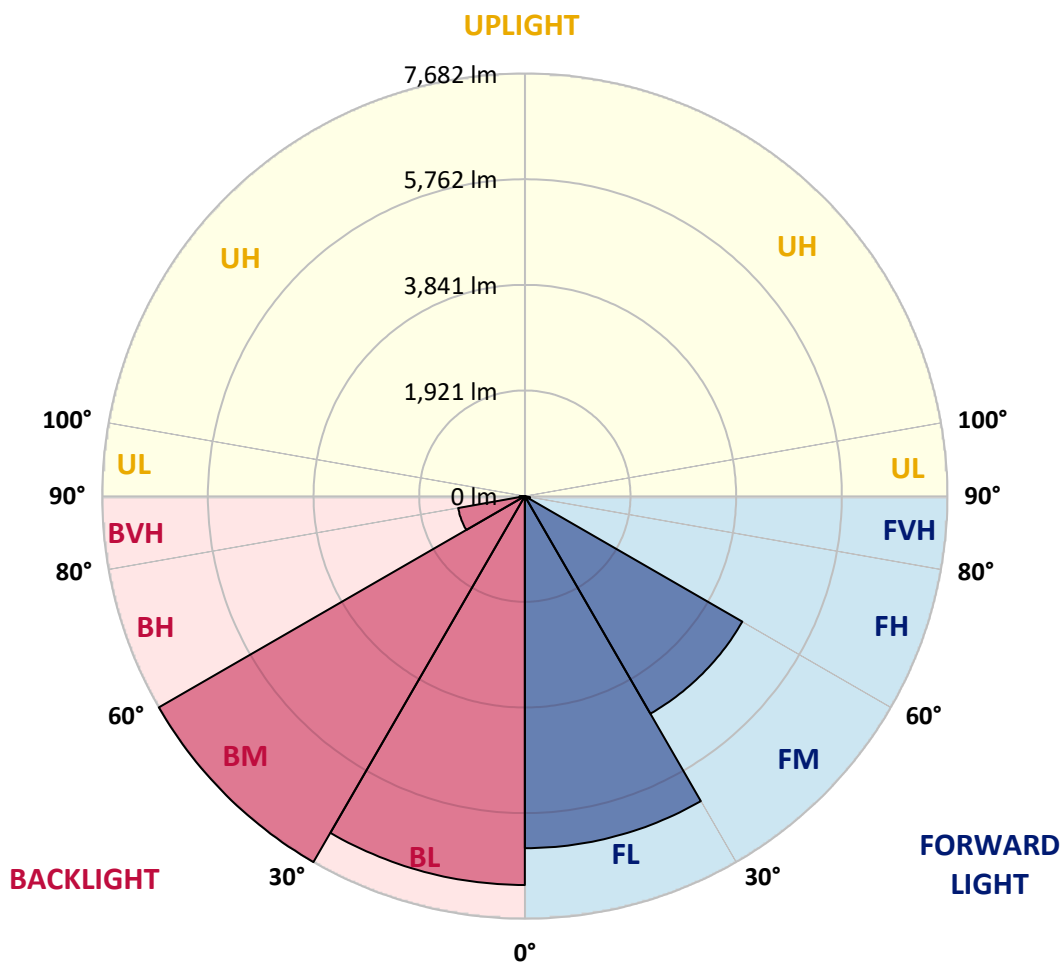
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6399.7	23.6			
FM (30°-60°)	4565.7	16.8			
FH (60°-80°)	95.7	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	7069.6	26.0	B5		
BM (30°-60°)	7682.5	28.3	B4/8500		
BH (60°-80°)	1230.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	95.6	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1
2.5°	20620.9	20647.7	20502.4	20517.7	20544.4	20739.4	20689.7	20643.8	20578.9	20689.7
5°	20594.1	20609.4	20456.5	20403.0	20425.9	20601.8	20441.2	20441.2	20425.9	20406.8
7.5°	20387.7	20395.4	20276.8	20181.3	20242.4	20322.7	20204.2	20261.6	20177.4	20242.4
10°	20078.1	20028.4	19886.9	19860.1	19929.0	20005.4	19925.1	19978.7	19902.2	19951.9
12.5°	19623.1	19546.7	19432.0	19397.6	19516.1	19619.3	19554.3	19523.7	19424.3	19546.7
15°	17868.4	17811.1	18071.0	18525.9	18935.0	19022.9	18954.1	18984.7	18778.3	18812.7
17.5°	14706.8	14599.8	14878.9	15956.9	17493.7	18304.2	18243.0	18044.2	17738.4	17807.2
20°	13365.0	13334.4	13303.8	13559.9	14634.2	17092.3	17176.4	16671.8	16236.0	16140.4
22.5°	12608.0	12596.6	12566.0	12623.3	12906.2	14485.1	15448.5	14982.1	14691.5	14664.8
25°	11916.1	11897.0	11805.2	11877.9	11877.9	11969.6	13204.4	13487.3	13231.2	13200.6
27.5°	11212.7	11178.3	11163.0	11197.4	11021.5	10402.2	10715.7	12095.8	11962.0	11969.6
30°	10451.9	10440.4	10398.4	10471.0	9928.2	9159.8	8961.0	10834.2	10861.0	10853.3
32.5°	9320.3	9370.0	9561.2	9641.4	8746.9	8112.3	7779.7	9373.8	9920.5	9909.0
35°	6770.4	6770.4	7393.6	8551.9	7665.0	7187.1	7007.4	7947.9	8991.5	9029.8
37.5°	5566.2	5585.3	5707.6	6235.2	6613.7	6445.5	6391.9	6690.1	7798.8	7860.0
40°	5008.0	5008.0	5008.0	4790.1	4778.7	5807.0	5776.5	5680.9	6736.0	6869.8
42.5°	4499.6	4511.1	4518.7	3968.2	3662.4	5019.5	4950.7	4805.4	5784.1	5940.8
45°	3975.9	3995.0	4017.9	3318.3	3184.5	3612.7	4189.9	4029.4	4843.7	5046.3
47.5°	2427.6	2458.1	2978.1	2813.7	2829.0	2786.9	3417.7	3390.9	3972.0	4258.7
50°	1640.0	1651.5	1701.2	1785.3	2427.6	2190.5	2419.9	2806.0	3016.3	3452.1
52.5°	1376.3	1395.4	1273.0	1158.3	1594.2	1712.7	1689.7	2083.5	2167.6	2706.6
55°	967.2	1028.4	971.0	959.6	906.0	1330.4	1280.7	1601.8	1655.3	2056.7
57.5°	99.4	114.7	198.8	714.9	592.6	753.1	913.7	1173.6	1227.2	1517.7
60°	7.6	7.6	19.1	99.4	432.0	451.1	630.8	722.5	825.8	1059.0
62.5°	0.0	3.8	7.6	15.3	68.8	240.8	317.3	378.5	497.0	684.3
65°	0.0	0.0	3.8	11.5	15.3	91.8	122.3	198.8	271.4	424.3
67.5°	0.0	0.0	3.8	7.6	11.5	22.9	42.1	72.6	145.3	240.8
70°	0.0	0.0	3.8	7.6	11.5	19.1	30.6	45.9	65.0	130.0
72.5°	0.0	0.0	3.8	3.8	7.6	19.1	22.9	30.6	45.9	65.0
75°	0.0	0.0	3.8	3.8	11.5	22.9	19.1	22.9	30.6	42.1
77.5°	0.0	0.0	3.8	7.6	11.5	22.9	19.1	22.9	22.9	26.8
80°	0.0	0.0	3.8	7.6	15.3	26.8	22.9	22.9	19.1	19.1
82.5°	0.0	0.0	3.8	11.5	15.3	34.4	34.4	30.6	15.3	11.5
85°	0.0	0.0	7.6	15.3	22.9	38.2	38.2	30.6	11.5	7.6
87.5°	0.0	0.0	7.6	11.5	19.1	26.8	38.2	30.6	11.5	3.8
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°
20659.1	0°	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1	20659.1
20594.1	2.5°	20697.4	20674.4	20750.9	20781.5	20823.5	20663.0	20563.6	20567.4	20383.9
20360.9	5°	20483.3	20487.1	20586.5	20578.9	20620.9	20533.0	20494.8	20429.8	20269.2
20066.6	7.5°	20211.9	20177.4	20273.0	20345.7	20238.6	20299.8	20211.9	20242.4	20146.9
19806.6	10°	20001.6	19921.3	20009.2	20058.9	20062.8	20001.6	19917.5	19837.2	19802.8
19401.4	12.5°	19535.2	19432.0	19581.1	19649.9	19638.4	19519.9	19424.3	19443.4	19332.6
18690.3	15°	18892.9	18896.8	19003.8	19068.8	19007.6	18980.9	18988.5	18942.6	18847.1
17707.8	17.5°	17910.4	17967.8	18250.7	18407.4	18441.8	18388.3	18361.6	18308.0	18212.5
16140.4	20°	16274.2	16618.3	17122.9	17608.4	17704.0	17688.7	17593.1	17570.2	17516.7
14588.3	22.5°	14836.8	15092.9	15677.9	16434.8	16824.7	16863.0	16748.3	16713.9	16656.5
13200.6	25°	13349.7	13624.9	14152.5	14974.4	15781.1	15945.5	15926.3	15823.1	15762.0
11969.6	27.5°	12095.8	12371.0	12848.9	13590.5	14454.5	14982.1	15031.8	14867.4	14863.6
10872.4	30°	10964.2	11342.6	11705.8	12309.8	13147.1	13938.4	14022.5	13907.8	13919.3
9867.0	32.5°	10077.3	10390.7	10700.4	11105.6	11801.4	12722.7	13051.5	12944.5	12902.4
9029.8	35°	9171.2	9385.3	9702.6	10073.4	10547.5	11461.2	12030.8	11950.5	11908.4
7898.2	37.5°	8139.0	8506.0	8735.4	9152.1	9522.9	10249.3	11052.1	11040.6	10952.7
6934.8	40°	7080.1	7466.2	7814.1	8234.6	8521.3	9098.6	9989.3	9985.5	9997.0
5937.0	42.5°	6120.5	6476.1	6896.6	7355.3	7630.6	8051.1	9006.8	9060.4	9125.3
5115.1	45°	5252.7	5573.8	5963.8	6521.9	6854.5	7095.4	7944.1	8188.7	8184.9
4381.1	47.5°	4472.8	4774.8	5103.6	5646.5	6070.8	6288.7	6992.1	7340.0	7317.1
3593.6	50°	3754.1	4021.7	4365.8	4759.6	5329.2	5520.3	6044.1	6502.8	6468.4
2863.4	52.5°	3020.1	3390.9	3681.5	4040.8	4641.0	4828.4	5233.6	5680.9	5654.1
2148.5	55°	2354.9	2714.3	3066.0	3375.7	3880.3	4159.4	4449.9	4908.6	4901.0
1682.1	57.5°	1781.5	2175.2	2507.8	2802.2	3203.6	3547.7	3780.9	4197.6	4251.1
1150.7	60°	1318.9	1620.9	1980.3	2309.1	2626.4	2981.9	3138.6	3547.7	3570.6
787.5	62.5°	898.4	1231.0	1582.7	1880.9	2117.9	2484.9	2626.4	2962.8	3004.8
504.6	65°	623.1	837.2	1238.6	1452.7	1743.3	2056.7	2198.2	2465.8	2549.9
290.5	67.5°	412.9	596.4	967.2	1162.2	1448.9	1663.0	1842.7	2060.6	2152.3
183.5	70°	225.6	439.6	692.0	917.5	1166.0	1372.4	1548.3	1724.1	1804.4
84.1	72.5°	152.9	294.4	481.7	726.4	940.4	1143.1	1299.8	1429.8	1433.6
49.7	75°	76.5	198.8	367.0	562.0	734.0	932.8	1074.2	1150.7	1059.0
30.6	77.5°	45.9	145.3	298.2	451.1	596.4	753.1	833.4	875.5	726.4
22.9	80°	26.8	103.2	233.2	359.4	412.9	554.3	630.8	642.3	485.5
15.3	82.5°	19.1	76.5	183.5	263.8	252.3	389.9	474.0	458.8	309.7
11.5	85°	11.5	53.5	114.7	164.4	152.9	256.1	275.3	282.9	179.7
7.6	87.5°	7.6	30.6	61.2	87.9	72.6	110.9	110.9	133.8	87.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
20659.1  
*20146.9*  
20231.0  
19986.3  
19649.9  
19237.0  
18751.5  
18170.4  
17394.4  
16641.2  
15697.0  
14855.9  
13862.0  
12906.2  
11851.1  
11025.3  
9997.0  
9090.9  
8192.5  
7324.7  
6499.0  
5711.5  
4920.1  
4228.2  
3605.0  
3012.5  
2530.8  
2140.8  
1773.8  
1399.2  
990.1  
699.6  
454.9  
286.7  
164.4  
76.5  
0.0

(END OF REPORT)