

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: P638011

Luminaire Tested: **IFLD-L-SA8C-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638011  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31403.8 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

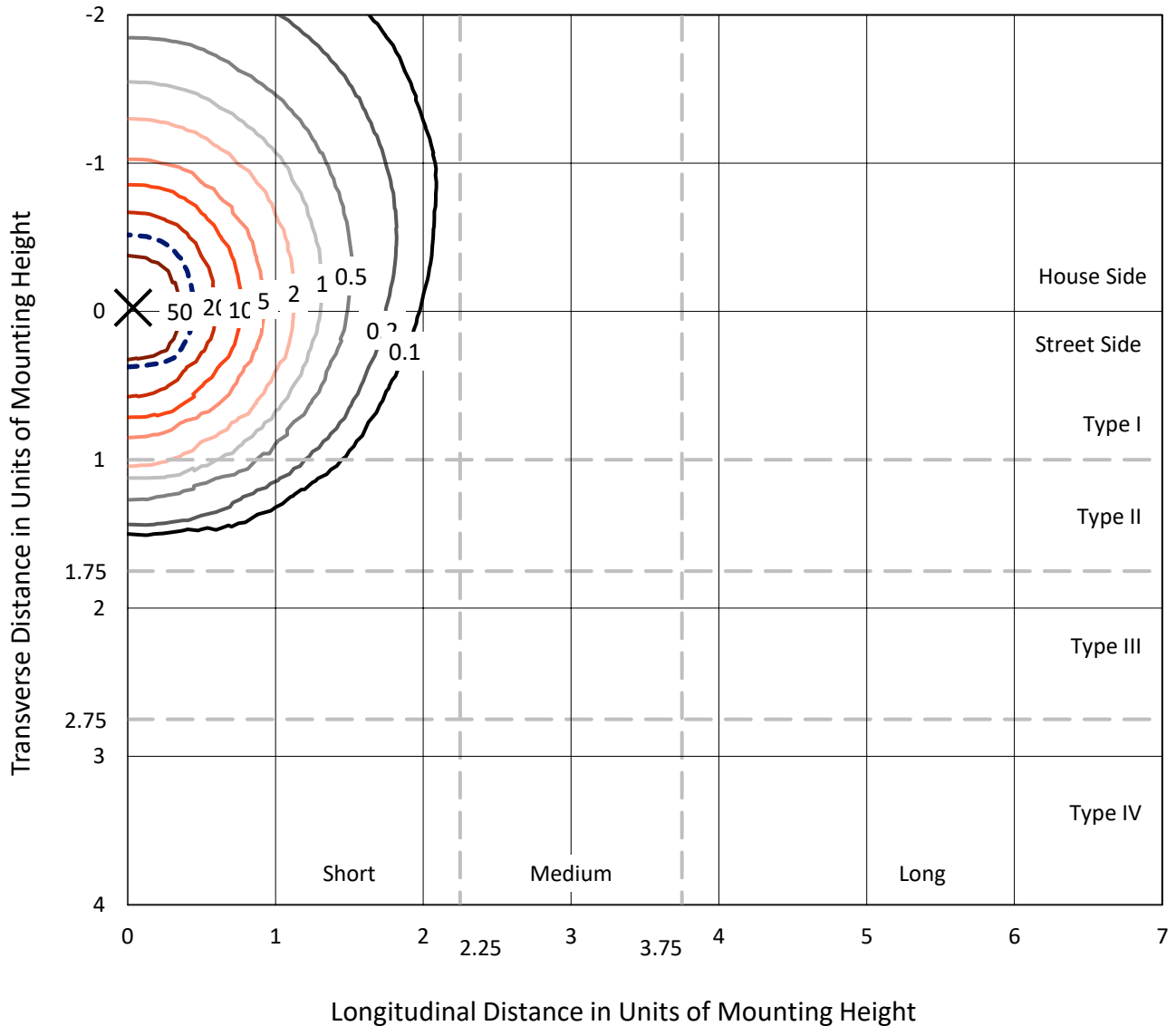
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

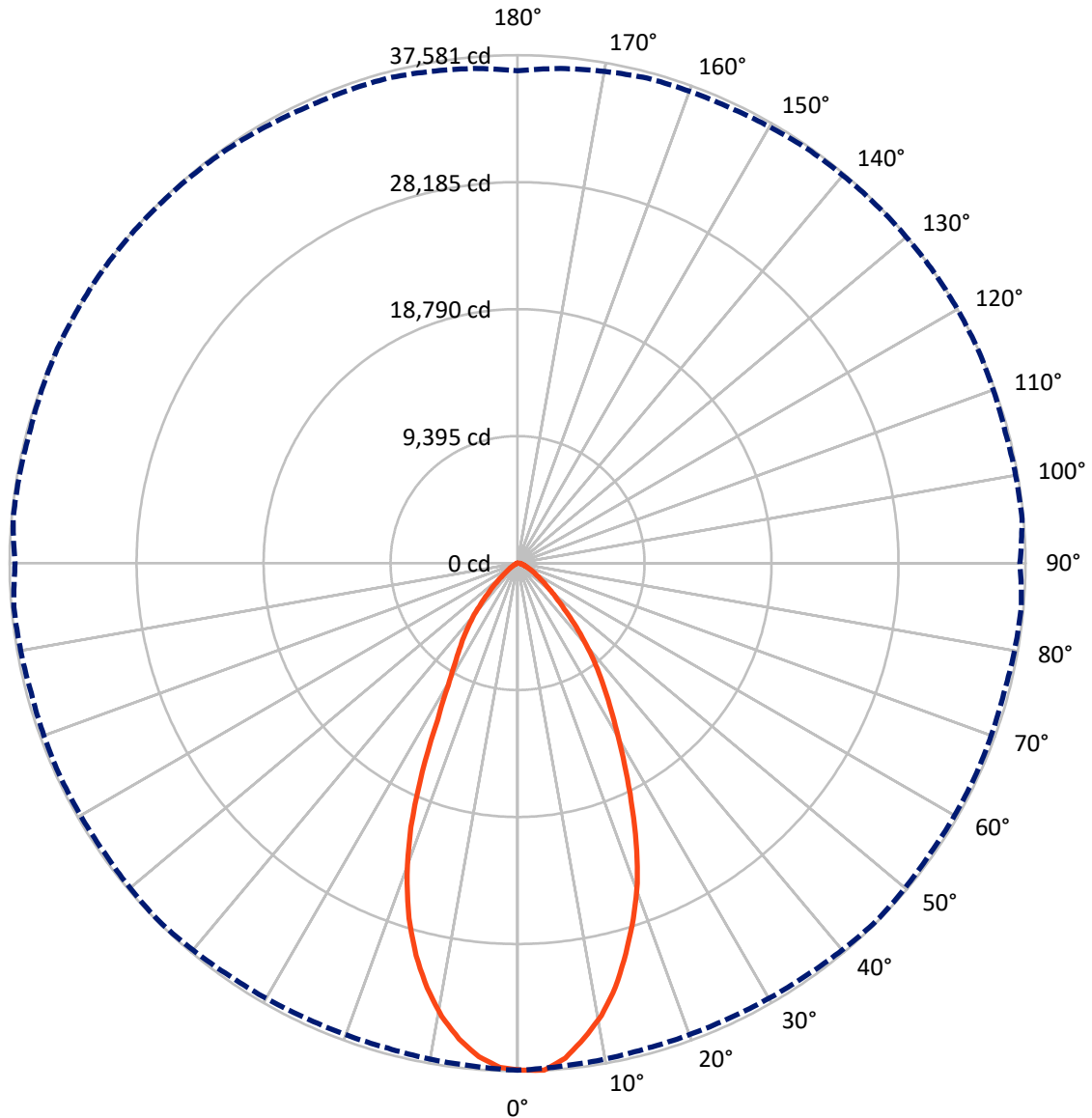
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 93.8 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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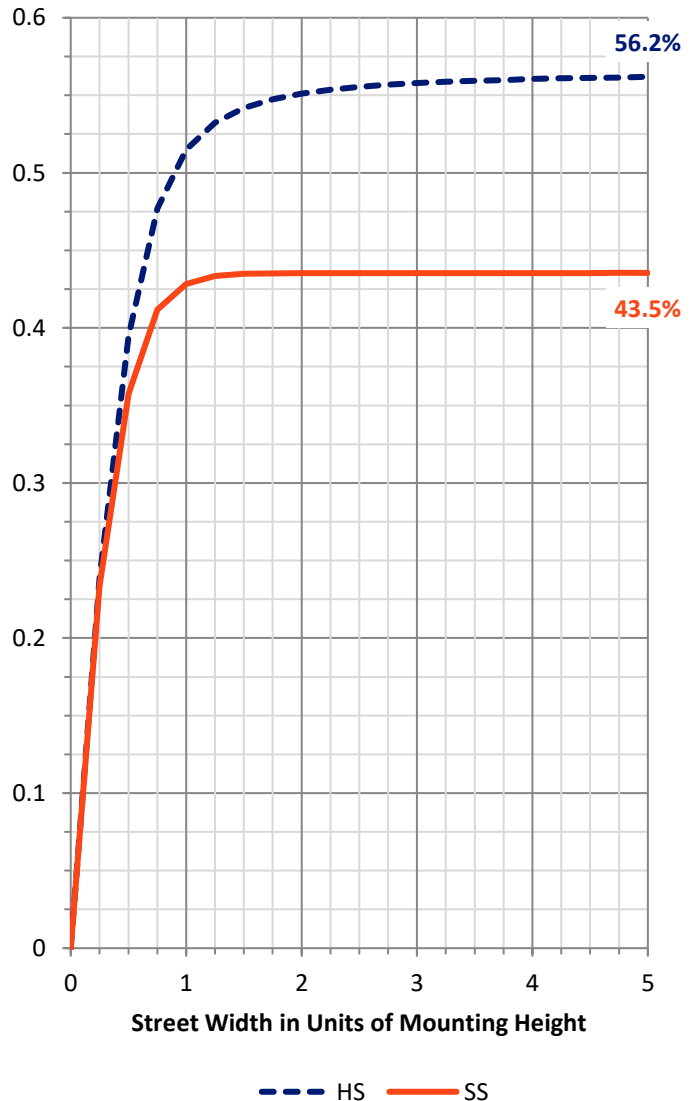
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17819.8	0.0	17819.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	13584.1	0.0	13584.1
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	31403.8	0.0	31403.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3407.0	10.8
10°-20°	8121.4	25.9
20°-30°	8271.5	26.3
30°-40°	6168.0	19.6
40°-50°	3222.3	10.3
50°-60°	1355.3	4.3
60°-70°	553.5	1.8
70°-80°	232.9	0.7
80°-90°	71.8	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°	31403.8	100.0
0°-180°	31403.8	100.0



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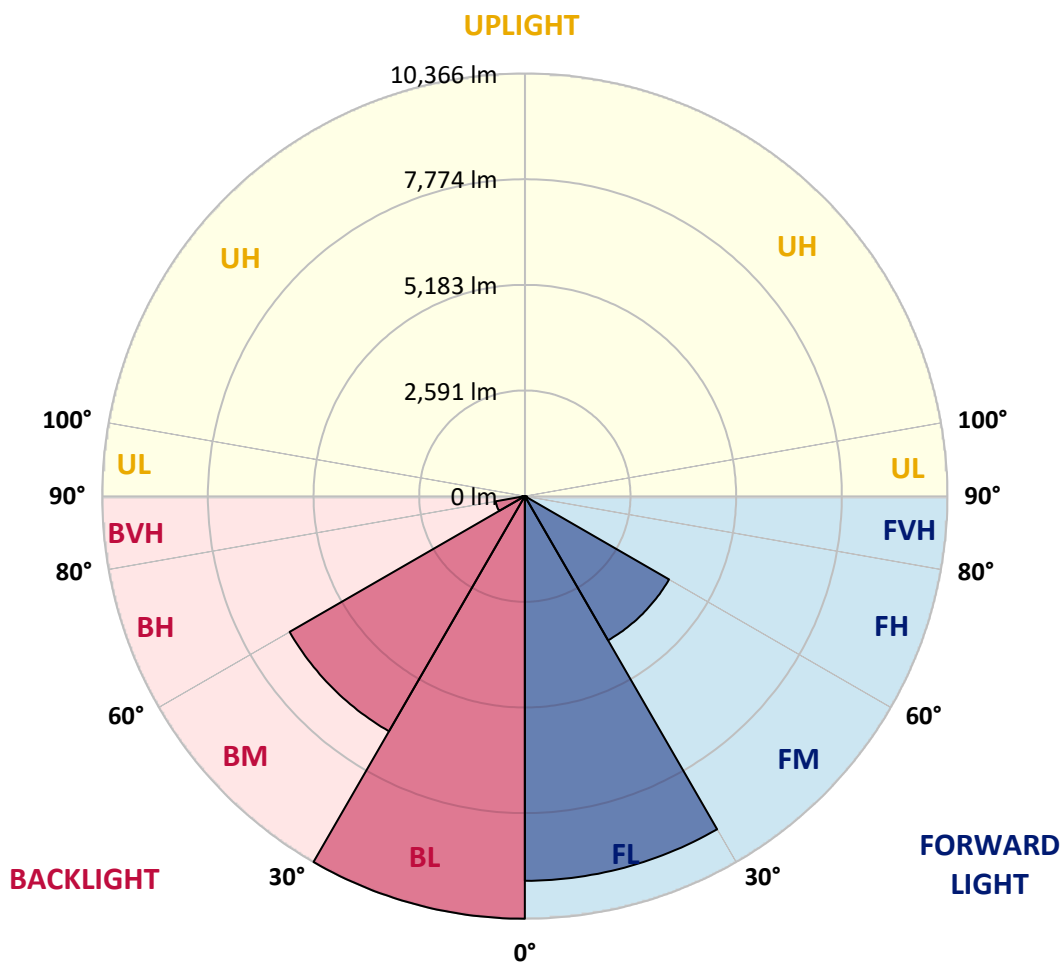
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9434.1	30.0			
FM (30°-60°)	4084.2	13.0			
FH (60°-80°)	59.1	0.2			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	10365.8	33.0	B5		
BM (30°-60°)	6661.5	21.2	B4/8500		
BH (60°-80°)	727.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	65.1	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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0
2.5°	37524.0	37370.7	37152.9	37132.7	37245.7	37491.7	37334.4	37342.5	37245.7	37411.1
5°	36935.0	36789.8	36640.6	36442.9	36608.3	36713.2	36632.5	36543.8	36418.7	36580.1
7.5°	35821.7	35741.0	35519.1	35430.4	35531.2	35648.2	35474.7	35450.5	35277.1	35486.9
10°	34119.3	34087.1	33869.2	33816.8	33905.5	34083.0	34006.4	33990.2	33881.3	33861.2
12.5°	32352.5	32227.4	31957.1	31941.0	32074.1	32340.4	32134.6	31937.0	31997.5	32049.9
15°	27802.1	27669.0	28338.7	29391.5	29944.2	29924.0	29984.5	29746.5	29673.9	29698.1
17.5°	22102.1	21876.2	22118.3	23748.0	26374.1	27898.9	27479.4	26967.1	26692.8	26511.3
20°	19076.7	19088.8	19044.4	19463.9	21101.7	24579.0	24478.1	23489.8	23130.8	22981.5
22.5°	17237.2	17168.6	17071.8	17204.9	17644.6	19685.8	21053.3	20145.7	20020.6	19855.2
25°	15434.0	15434.0	15317.0	15450.1	15575.2	15603.4	16975.0	17346.1	17104.0	17104.0
27.5°	13872.8	13792.1	13739.7	13800.2	13634.8	12840.1	13013.6	14913.6	14748.2	14647.4
30°	12323.8	12299.6	12210.8	12291.5	11678.3	10782.8	10419.7	12586.0	12759.5	12723.1
32.5°	10173.7	10270.5	10665.8	10790.9	9742.0	9020.0	8673.0	10448.0	11141.8	11113.6
35°	6914.2	6994.9	7446.7	8939.3	8076.0	7559.7	7458.8	8310.0	9451.6	9560.5
37.5°	5506.4	5494.3	5623.4	5889.6	6490.7	6365.6	6337.4	6559.2	7708.9	7757.3
40°	4538.2	4522.1	4518.0	4300.2	4151.0	5292.6	5215.9	5082.8	6079.2	6176.0
42.5°	3658.8	3674.9	3687.1	3211.0	2993.2	4082.4	4038.0	3900.9	4768.2	4881.1
45°	2872.2	2868.2	2892.4	2392.1	2331.6	2610.0	3017.4	2908.5	3598.3	3719.3
47.5°	1488.5	1541.0	1867.7	1851.6	1879.8	1851.6	2283.2	2255.0	2706.8	2900.4
50°	1000.4	1016.6	1044.8	1048.8	1480.5	1363.5	1549.0	1754.8	1896.0	2194.5
52.5°	774.5	786.6	714.0	669.6	907.6	1008.5	1016.6	1214.2	1323.1	1625.7
55°	431.6	484.1	520.4	524.4	500.2	746.3	742.3	899.6	984.3	1186.0
57.5°	56.5	68.6	104.9	338.9	334.8	415.5	520.4	653.5	701.9	867.3
60°	4.0	8.1	12.1	52.4	221.9	242.0	355.0	407.4	488.1	609.1
62.5°	0.0	0.0	4.0	12.1	44.4	141.2	185.6	213.8	286.4	399.4
65°	0.0	0.0	4.0	8.1	16.1	52.4	72.6	117.0	169.4	246.1
67.5°	0.0	0.0	4.0	8.1	12.1	20.2	32.3	52.4	88.7	149.3
70°	0.0	0.0	4.0	8.1	12.1	16.1	24.2	32.3	48.4	80.7
72.5°	0.0	0.0	4.0	4.0	8.1	20.2	20.2	24.2	32.3	44.4
75°	0.0	0.0	4.0	8.1	12.1	20.2	20.2	20.2	24.2	28.2
77.5°	0.0	0.0	4.0	8.1	12.1	20.2	16.1	20.2	20.2	20.2
80°	0.0	0.0	4.0	8.1	12.1	20.2	24.2	20.2	16.1	16.1
82.5°	0.0	0.0	4.0	12.1	12.1	28.2	28.2	28.2	12.1	12.1
85°	0.0	0.0	8.1	12.1	20.2	32.3	32.3	24.2	12.1	8.1
87.5°	0.0	0.0	4.0	8.1	8.1	16.1	24.2	20.2	8.1	4.0
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°
37520.0	0°	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0	37520.0
37169.0	2.5°	37467.5	37366.7	37556.3	37580.5	37499.8	37399.0	37165.0	37144.8	36737.4
36346.1	5°	36757.6	36592.2	36713.2	36793.9	36765.6	36656.7	36559.9	36471.1	36104.0
35010.8	7.5°	35434.4	35373.9	35430.4	35490.9	35607.9	35490.9	35450.5	35357.8	34994.7
33695.8	10°	33966.0	33853.1	34066.9	34038.7	34006.4	33974.1	33804.7	33820.8	33393.2
31904.7	12.5°	32162.9	31973.3	32179.0	32203.2	32179.0	32066.0	31876.4	31957.1	31565.8
29484.3	15°	29738.4	29718.3	29867.5	29964.3	30032.9	29911.9	29847.4	29887.7	29653.7
26370.1	17.5°	26761.4	27023.6	27511.7	27677.1	27681.1	27806.2	27769.9	27721.5	27548.0
22921.0	20°	23259.9	23764.1	24514.4	25284.9	25506.8	25401.9	25353.5	25442.3	25184.1
19681.7	22.5°	20028.7	20460.3	21331.6	22457.1	23106.6	23171.1	23159.0	23082.4	22981.5
17087.9	25°	17285.6	17668.8	18503.8	19532.5	20779.0	20964.6	20972.6	20948.4	20859.7
14736.1	27.5°	14970.1	15434.0	15893.8	16813.6	18140.8	18907.2	18810.4	18782.2	18749.9
12751.4	30°	12872.4	13457.3	13889.0	14461.8	15651.8	16688.5	16789.4	16741.0	16664.3
11109.6	32.5°	11210.4	11557.3	12105.9	12493.2	13348.4	14522.3	14909.6	14873.3	14804.7
9629.1	35°	9766.2	9903.4	10335.0	10766.7	11335.5	12473.0	13045.9	12965.2	12953.1
7846.1	37.5°	8043.7	8503.6	8741.6	9177.3	9576.6	10460.1	11250.7	11214.4	11218.5
6309.1	40°	6494.7	6760.9	7232.9	7600.0	7967.1	8612.5	9491.9	9516.1	9508.1
4885.1	42.5°	4986.0	5244.2	5740.3	6139.7	6466.5	6865.8	7704.9	7733.1	7769.4
3804.0	45°	3892.8	4058.2	4421.2	4836.7	5183.7	5425.7	6063.1	6244.6	6248.6
2948.8	47.5°	3021.4	3211.0	3469.2	3868.6	4207.4	4380.9	4844.8	5090.9	5078.8
2263.1	50°	2372.0	2545.4	2755.2	3069.9	3436.9	3574.1	3917.0	4159.0	4146.9
1706.4	52.5°	1815.3	2037.2	2222.7	2464.8	2823.8	2940.8	3186.8	3465.2	3424.8
1250.5	55°	1375.6	1601.5	1774.9	1976.6	2303.4	2452.7	2622.1	2844.0	2852.0
968.2	57.5°	1036.7	1270.7	1428.0	1633.8	1879.8	2045.2	2174.3	2412.3	2408.3
661.6	60°	742.3	943.9	1133.5	1347.3	1536.9	1726.5	1815.3	2041.2	2049.3
467.9	62.5°	536.5	726.1	907.6	1093.2	1262.6	1448.2	1528.9	1706.4	1730.6
306.6	65°	375.2	508.3	718.0	859.2	1048.8	1186.0	1290.9	1444.2	1472.4
181.5	67.5°	242.0	367.1	568.8	693.8	867.3	984.3	1093.2	1214.2	1250.5
117.0	70°	145.2	278.3	423.6	556.7	714.0	818.9	923.8	1028.7	1048.8
56.5	72.5°	92.8	193.6	306.6	451.8	572.8	685.8	778.6	855.2	794.7
36.3	75°	52.4	133.1	242.0	355.0	463.9	572.8	649.5	689.8	552.7
24.2	77.5°	32.3	96.8	197.7	286.4	359.0	459.9	508.3	532.5	395.3
16.1	80°	20.2	72.6	165.4	234.0	234.0	338.9	395.3	415.5	286.4
12.1	82.5°	16.1	52.4	129.1	177.5	157.3	254.1	310.6	314.6	201.7
8.1	85°	12.1	40.3	80.7	117.0	108.9	177.5	181.5	201.7	133.1
8.1	87.5°	8.1	24.2	48.4	68.6	60.5	84.7	96.8	108.9	72.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
37520.0  
*36418.7*  
35809.6  
34918.1  
33248.0  
31452.9  
29371.3  
27289.8  
24998.5  
22787.9  
20561.2  
18560.3  
16567.5  
14623.1  
12820.0  
11089.4  
9366.9  
7648.4  
6143.7  
5034.4  
4146.9  
3428.9  
2852.0  
2400.2  
2029.1  
1722.5  
1464.3  
1246.5  
1032.7  
738.2  
524.4  
371.1  
266.2  
185.6  
121.0  
64.5  
0.0

(END OF REPORT)