

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: P637823

Luminaire Tested: **IFLD-S-SA6D-727-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637823  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-727-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32242 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

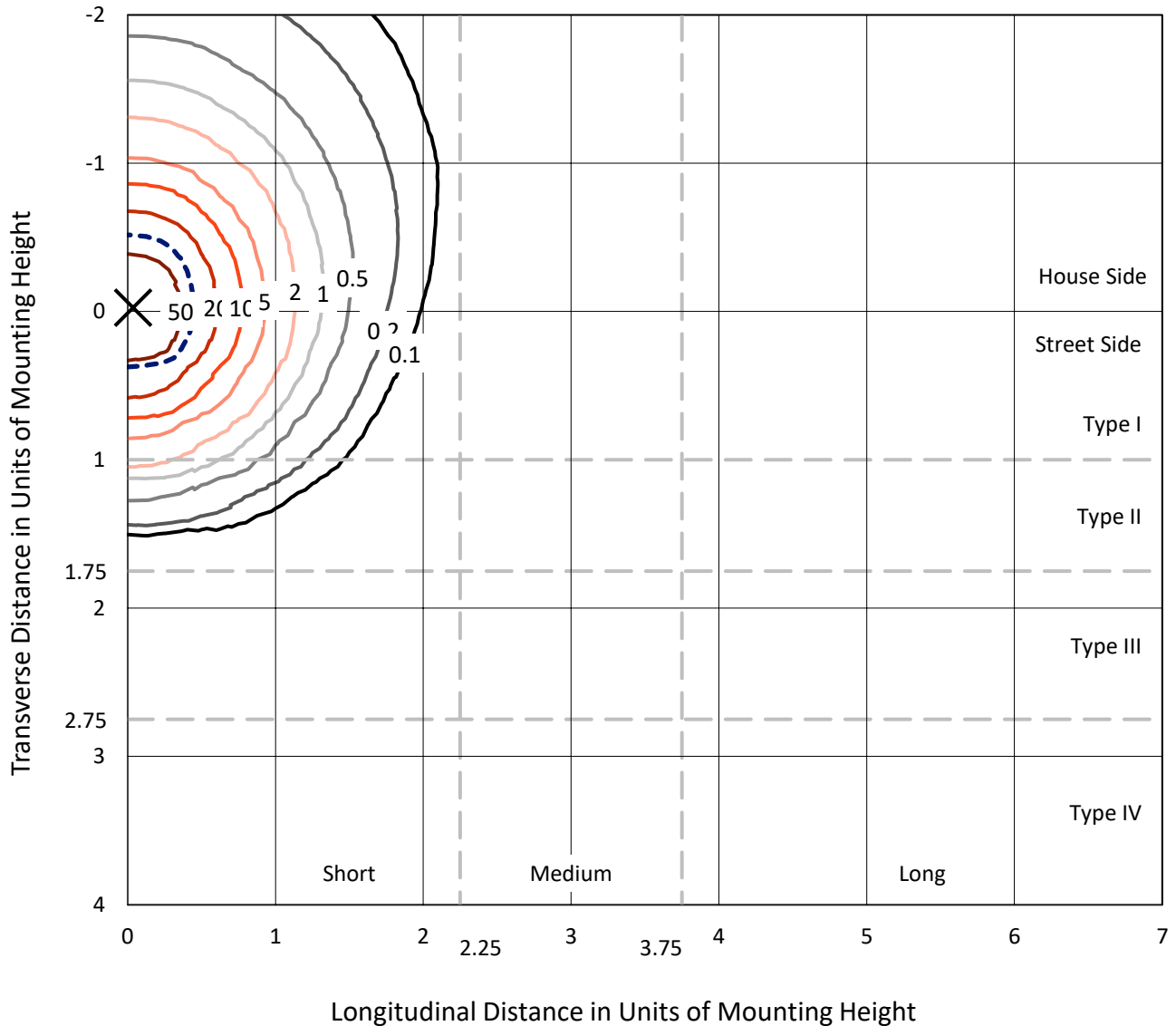
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P637823  
 CATALOG NUMBER: IFLD-S-SA6D-727-U-66-VI

### Iso-Footcandle Lines of Horizontal Illumination

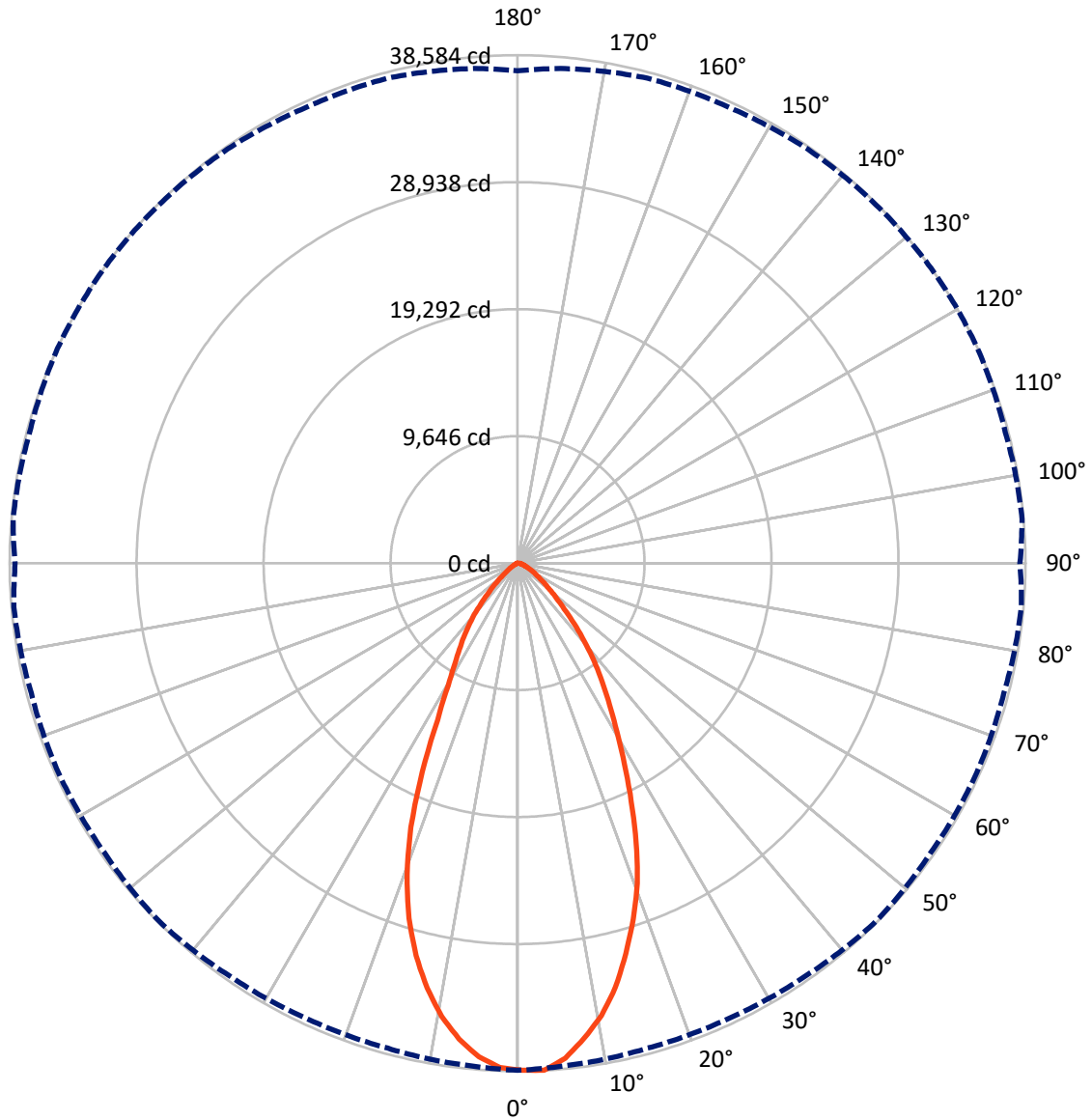
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 96.3 fc  
 Type I - Short - N/A

REPORT NUMBER: P637823  
CATALOG NUMBER: IFLD-S-SA6D-727-U-66-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P637823

CATALOG NUMBER: IFLD-S-SA6D-727-U-66-VI

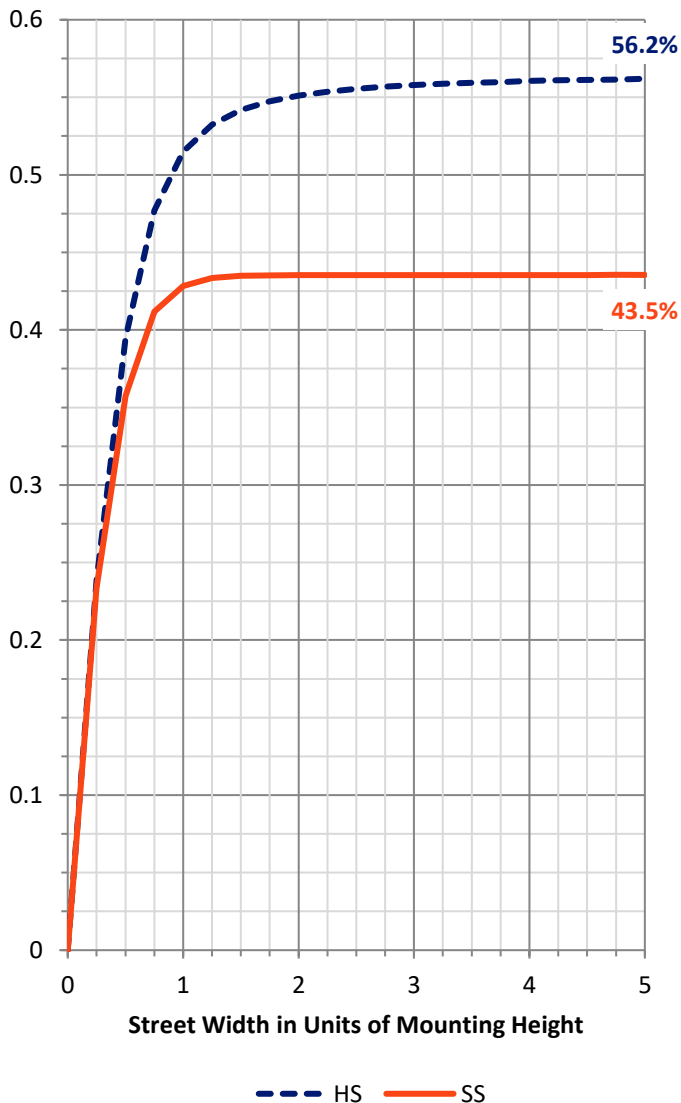
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18295.4	0.0	18295.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	13946.6	0.0	13946.6
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	32242.0	0.0	32242.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3497.9	10.8
10°-20°	8338.2	25.9
20°-30°	8492.3	26.3
30°-40°	6332.7	19.6
40°-50°	3308.4	10.3
50°-60°	1391.5	4.3
60°-70°	568.3	1.8
70°-80°	239.1	0.7
80°-90°	73.7	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°	32242.0	100.0
0°-180°	32242.0	100.0



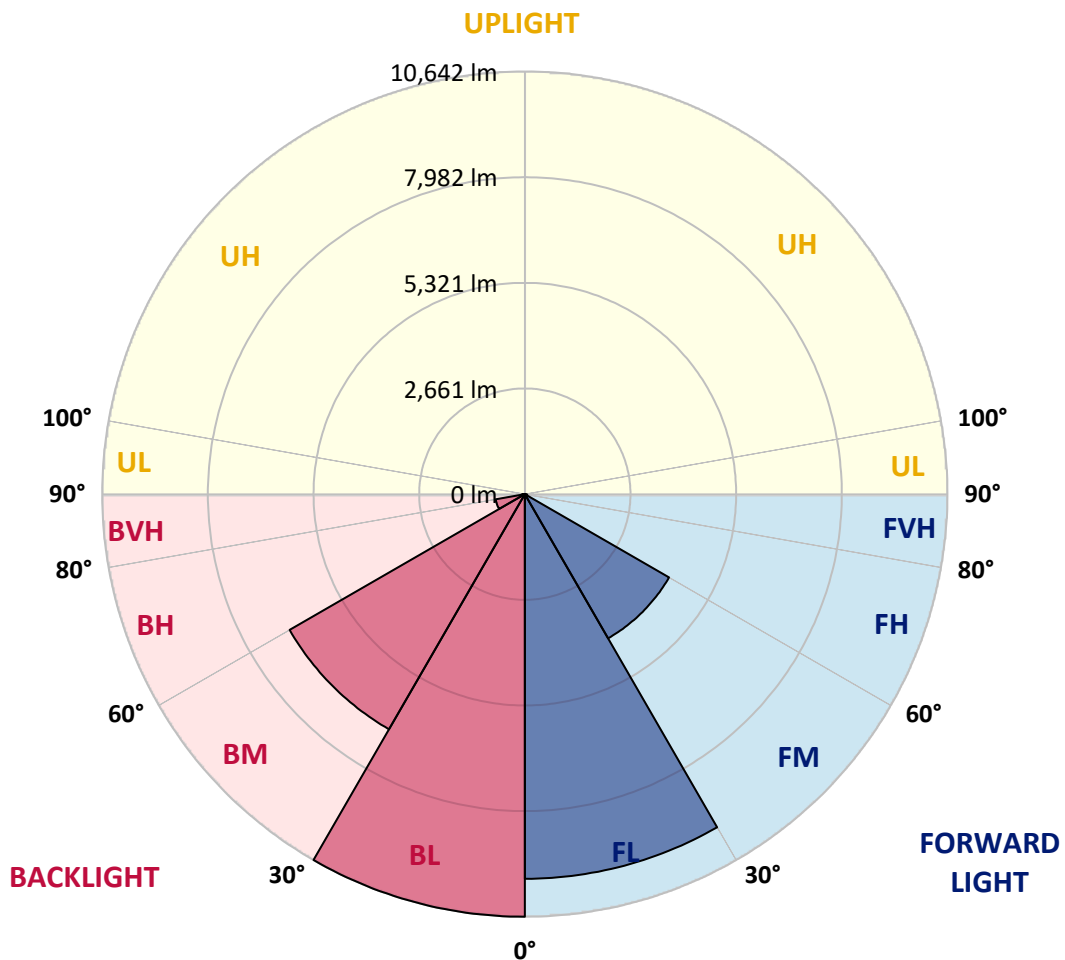
REPORT NUMBER: P637823  
 CATALOG NUMBER: IFLD-S-SA6D-727-U-66-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9685.9	30.0			
FM (30°-60°)	4193.2	13.0			
FH (60°-80°)	60.7	0.2			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	10642.5	33.0	B5		
BM (30°-60°)	6839.3	21.2	B4/8500		
BH (60°-80°)	746.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	66.8	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





REPORT NUMBER: P637823  
 CATALOG NUMBER: IFLD-S-SA6D-727-U-66-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4
2.5°	38525.6	38368.2	38144.6	38123.9	38239.8	38492.5	38330.9	38339.2	38239.8	38409.6
5°	37920.9	37771.8	37618.6	37415.6	37585.4	37693.1	37610.3	37519.2	37390.8	37556.4
7.5°	36777.8	36695.0	36467.2	36376.1	36479.6	36599.7	36421.6	36396.8	36218.7	36434.1
10°	35030.0	34996.9	34773.3	34719.4	34810.5	34992.8	34914.1	34897.5	34785.7	34765.0
12.5°	33216.0	33087.6	32810.1	32793.6	32930.2	33203.6	32992.4	32789.4	32851.5	32905.4
15°	28544.2	28407.5	29095.1	30176.0	30743.4	30722.7	30784.9	30540.5	30465.9	30490.8
17.5°	22692.1	22460.1	22708.6	24381.9	27078.1	28643.6	28212.9	27686.9	27405.3	27218.9
20°	19585.8	19598.3	19552.7	19983.4	21664.9	25235.0	25131.5	24116.8	23748.2	23595.0
22.5°	17697.3	17626.8	17527.4	17664.1	18115.6	20211.2	21615.3	20683.4	20555.0	20385.2
25°	15845.9	15845.9	15725.8	15862.5	15990.9	16019.9	17428.0	17809.1	17560.6	17560.6
27.5°	14243.1	14160.3	14106.4	14168.6	13998.8	13182.9	13360.9	15311.7	15141.9	15038.3
30°	12652.7	12627.9	12536.8	12619.6	11990.1	11070.6	10697.9	12921.9	13100.0	13062.8
32.5°	10445.2	10544.6	10950.5	11078.9	10002.1	9260.7	8904.5	10726.9	11439.2	11410.2
35°	7098.8	7181.6	7645.5	9177.9	8291.6	7761.4	7657.9	8531.8	9703.9	9815.7
37.5°	5653.3	5640.9	5773.5	6046.8	6663.9	6535.5	6506.5	6734.3	7914.7	7964.4
40°	4659.4	4642.8	4638.6	4415.0	4261.8	5433.8	5355.1	5218.5	6241.5	6340.9
42.5°	3756.5	3773.0	3785.5	3296.8	3073.1	4191.3	4145.8	4005.0	4895.4	5011.4
45°	2948.9	2944.7	2969.6	2456.0	2393.9	2679.6	3098.0	2986.1	3694.3	3818.6
47.5°	1528.3	1582.1	1917.6	1901.0	1930.0	1901.0	2344.2	2315.2	2779.0	2977.8
50°	1027.1	1043.7	1072.7	1076.8	1520.0	1399.9	1590.4	1801.6	1946.6	2253.1
52.5°	795.2	807.6	733.1	687.5	931.9	1035.4	1043.7	1246.6	1358.5	1669.1
55°	443.2	497.0	534.3	538.4	513.6	766.2	762.1	923.6	1010.6	1217.6
57.5°	58.0	70.4	107.7	347.9	343.8	426.6	534.3	670.9	720.6	890.5
60°	4.1	8.3	12.4	53.8	227.8	248.5	364.5	418.3	501.1	625.4
62.5°	0.0	0.0	4.1	12.4	45.6	145.0	190.5	219.5	294.1	410.0
65°	0.0	0.0	4.1	8.3	16.6	53.8	74.5	120.1	173.9	252.6
67.5°	0.0	0.0	4.1	8.3	12.4	20.7	33.1	53.8	91.1	153.2
70°	0.0	0.0	4.1	8.3	12.4	16.6	24.8	33.1	49.7	82.8
72.5°	0.0	0.0	4.1	4.1	8.3	20.7	20.7	24.8	33.1	45.6
75°	0.0	0.0	4.1	8.3	12.4	20.7	20.7	20.7	24.8	29.0
77.5°	0.0	0.0	4.1	8.3	12.4	20.7	16.6	20.7	20.7	20.7
80°	0.0	0.0	4.1	8.3	12.4	20.7	24.8	20.7	16.6	16.6
82.5°	0.0	0.0	4.1	12.4	12.4	29.0	29.0	29.0	12.4	12.4
85°	0.0	0.0	8.3	12.4	20.7	33.1	33.1	24.8	12.4	8.3
87.5°	0.0	0.0	4.1	8.3	8.3	16.6	24.8	20.7	8.3	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637823

CATALOG NUMBER: IFLD-S-SA6D-727-U-66-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
38521.4	0°	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4	38521.4
38161.1	2.5°	38467.6	38364.1	38558.7	38583.6	38500.7	38397.2	38157.0	38136.3	37718.0
37316.2	5°	37738.7	37568.9	37693.1	37776.0	37747.0	37635.1	37535.7	37444.6	37067.7
35945.3	7.5°	36380.2	36318.1	36376.1	36438.2	36558.3	36438.2	36396.8	36301.5	35928.8
34595.2	10°	34872.7	34756.7	34976.2	34947.2	34914.1	34880.9	34707.0	34723.6	34284.5
32756.3	12.5°	33021.3	32826.7	33037.9	33062.8	33037.9	32921.9	32727.3	32810.1	32408.4
30271.3	15°	30532.2	30511.5	30664.7	30764.1	30834.6	30710.3	30644.0	30685.5	30445.2
27073.9	17.5°	27475.7	27744.9	28246.0	28415.8	28420.0	28548.4	28511.1	28461.4	28283.3
23532.8	20°	23880.7	24398.4	25168.8	25959.8	26187.6	26079.9	26030.2	26121.4	25856.3
20207.1	22.5°	20563.3	21006.4	21901.0	23056.5	23723.3	23789.6	23777.2	23698.5	23595.0
17544.0	25°	17747.0	18140.4	18997.7	20053.8	21333.6	21524.1	21532.4	21507.6	21416.5
15129.4	27.5°	15369.6	15845.9	16318.1	17262.4	18625.0	19411.9	19312.5	19283.5	19250.4
13091.7	30°	13216.0	13816.5	14259.7	14847.8	16069.6	17134.0	17237.5	17187.8	17109.1
11406.1	32.5°	11509.6	11865.8	12429.1	12826.7	13704.7	14909.9	15307.5	15270.2	15199.8
9886.1	35°	10026.9	10167.7	10610.9	11054.1	11638.0	12806.0	13394.1	13311.3	13298.8
8055.5	37.5°	8258.4	8730.6	8974.9	9422.2	9832.3	10739.3	11551.1	11513.8	11517.9
6477.5	40°	6668.0	6941.4	7426.0	7802.9	8179.8	8842.4	9745.3	9770.1	9761.9
5015.5	42.5°	5119.1	5384.1	5893.6	6303.6	6639.1	7049.1	7910.5	7939.5	7976.8
3905.6	45°	3996.7	4166.5	4539.2	4965.8	5322.0	5570.5	6224.9	6411.3	6415.4
3027.5	47.5°	3102.1	3296.8	3561.8	3971.8	4319.7	4497.8	4974.1	5226.8	5214.3
2323.5	50°	2435.3	2613.4	2828.7	3151.8	3528.7	3669.5	4021.5	4270.0	4257.6
1751.9	52.5°	1863.7	2091.5	2282.0	2530.5	2899.2	3019.3	3271.9	3557.7	3516.3
1283.9	55°	1412.3	1644.2	1822.3	2029.4	2364.9	2518.1	2692.1	2919.9	2928.1
994.0	57.5°	1064.4	1304.6	1466.1	1677.4	1930.0	2099.8	2232.3	2476.7	2472.6
679.2	60°	762.1	969.1	1163.8	1383.3	1578.0	1772.6	1863.7	2095.7	2104.0
480.4	62.5°	550.8	745.5	931.9	1122.4	1296.3	1486.9	1569.7	1751.9	1776.8
314.8	65°	385.2	521.8	737.2	882.2	1076.8	1217.6	1325.3	1482.7	1511.7
186.4	67.5°	248.5	376.9	584.0	712.4	890.5	1010.6	1122.4	1246.6	1283.9
120.1	70°	149.1	285.8	434.9	571.5	733.1	840.8	948.4	1056.1	1076.8
58.0	72.5°	95.3	198.8	314.8	463.9	588.1	704.1	799.3	878.0	815.9
37.3	75°	53.8	136.7	248.5	364.5	476.3	588.1	666.8	708.2	567.4
24.8	77.5°	33.1	99.4	202.9	294.1	368.6	472.1	521.8	546.7	405.9
16.6	80°	20.7	74.5	169.8	240.2	240.2	347.9	405.9	426.6	294.1
12.4	82.5°	16.6	53.8	132.5	182.2	161.5	260.9	318.9	323.0	207.1
8.3	85°	12.4	41.4	82.8	120.1	111.8	182.2	186.4	207.1	136.7
8.3	87.5°	8.3	24.8	49.7	70.4	62.1	87.0	99.4	111.8	74.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
38521.4  
**37390.8**  
36765.4  
35850.1  
34135.4  
32292.4  
30155.3  
28018.2  
25665.8  
23396.2  
21110.0  
19055.7  
17009.7  
15013.5  
13162.2  
11385.4  
9616.9  
7852.6  
6307.7  
5168.8  
4257.6  
3520.4  
2928.1  
2464.3  
2083.2  
1768.5  
1503.4  
1279.8  
1060.3  
757.9  
538.4  
381.0  
273.3  
190.5  
124.2  
66.3  
0.0

(END OF REPORT)