

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: P638354

Luminaire Tested: **IFLD-L-SA7C-727-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638354  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-727-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27324.8 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

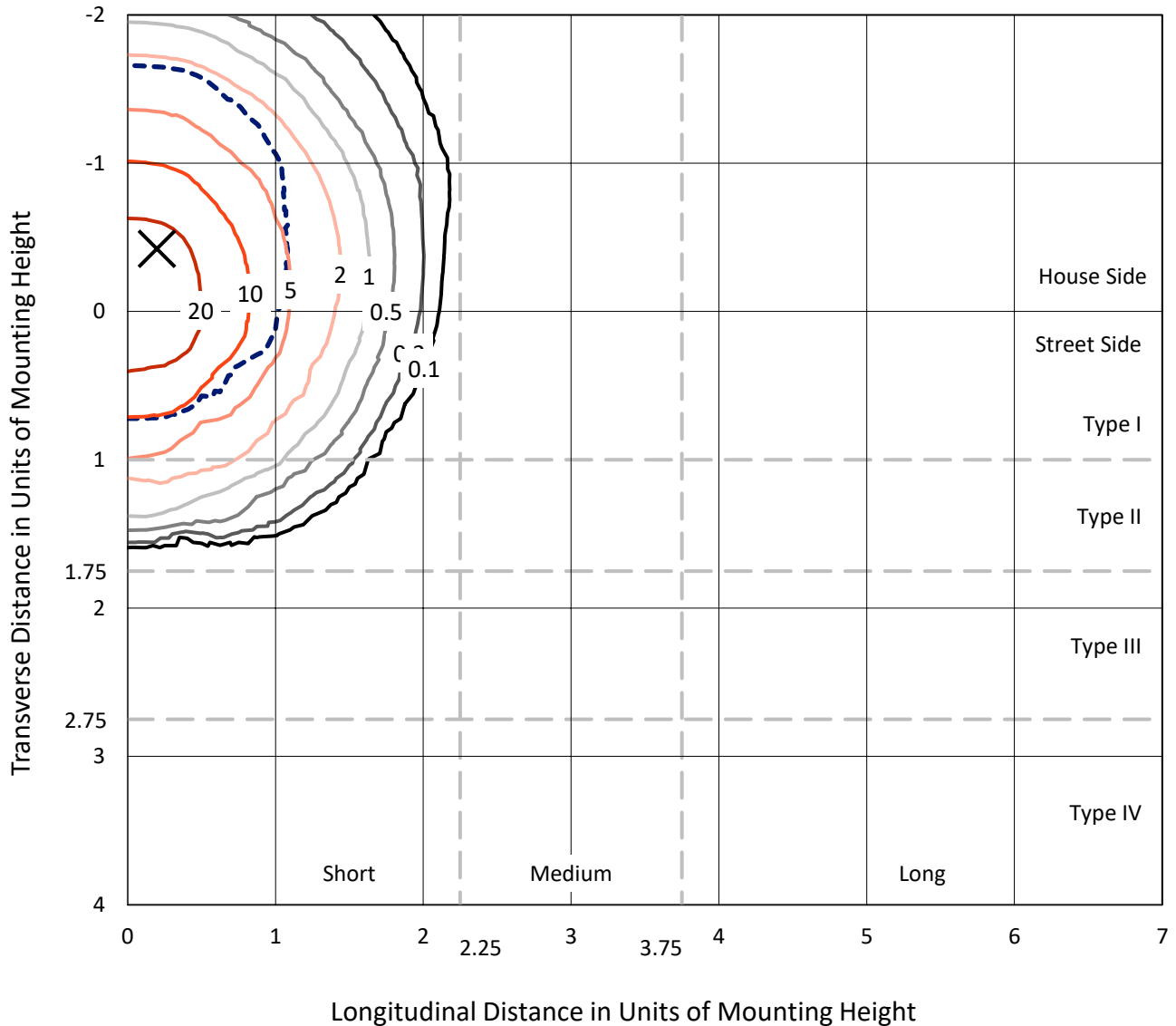
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638354  
 CATALOG NUMBER: IFLD-L-SA7C-727-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

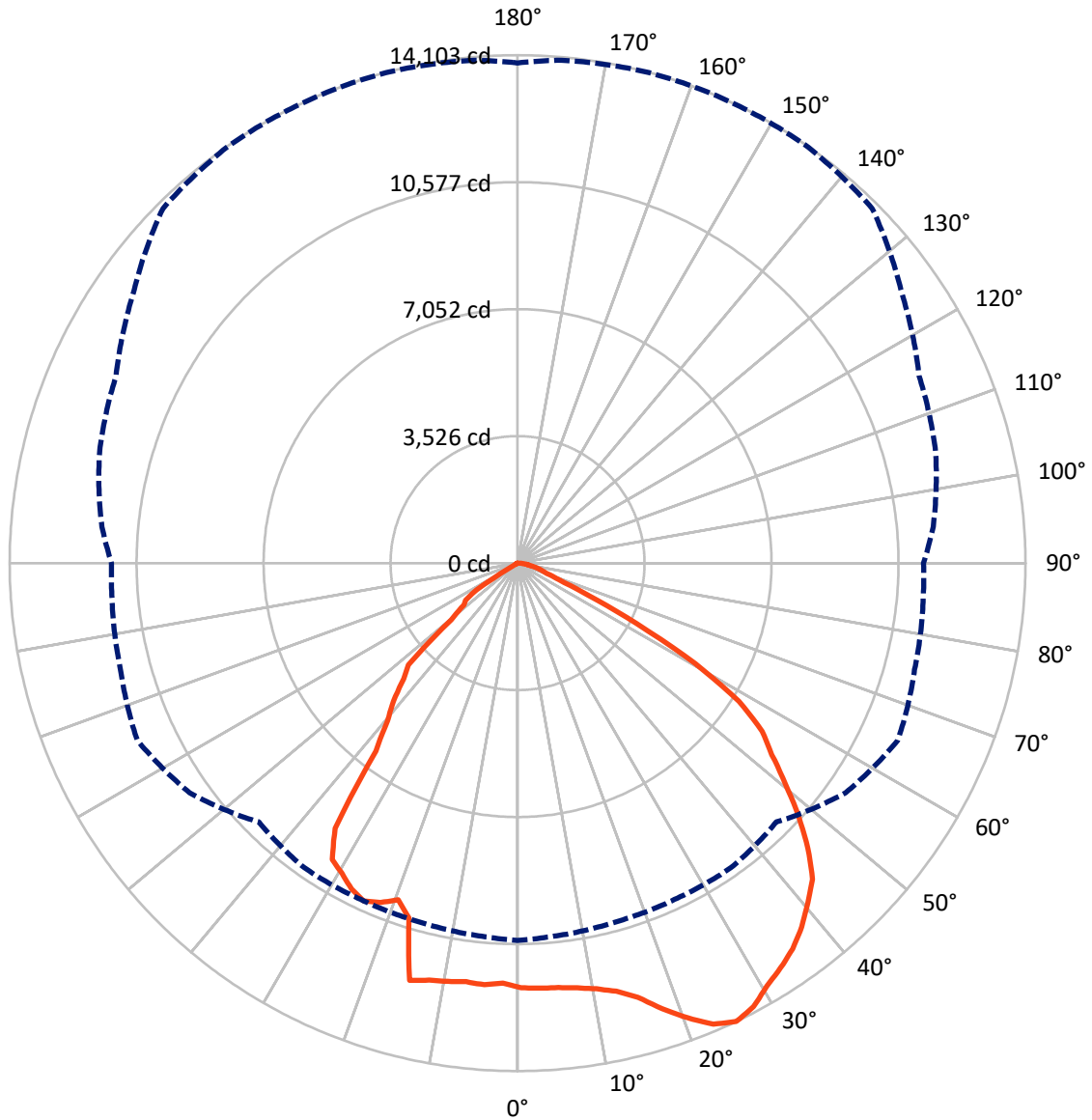
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P638354  
CATALOG NUMBER: IFLD-L-SA7C-727-U-LAM-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638354  
 CATALOG NUMBER: IFLD-L-SA7C-727-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16916.9	0.0	16916.9
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10407.9	0.0	10407.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	27324.8	0.0	27324.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1131.1	4.1
10°-20°	3453.8	12.6
20°-30°	5460.2	20.0
30°-40°	6167.8	22.6
40°-50°	5776.3	21.1
50°-60°	3982.3	14.6
60°-70°	1069.9	3.9
70°-80°	223.0	0.8
80°-90°	60.3	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°	27324.8	100.0
0°-180°	27324.8	100.0



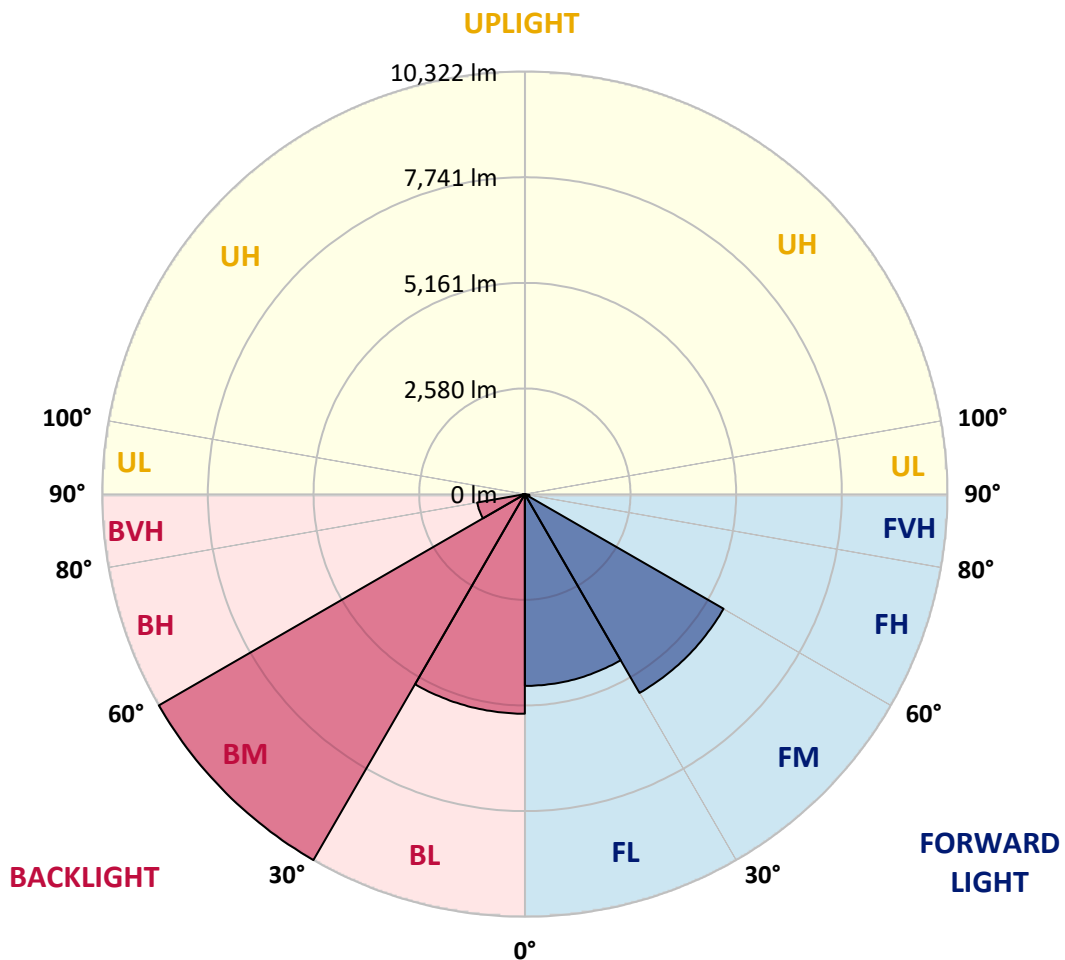
REPORT NUMBER: P638354  
 CATALOG NUMBER: IFLD-L-SA7C-727-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4682.6	17.1			
FM (30°-60°)	5604.9	20.5			
FH (60°-80°)	112.3	0.4			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	5362.5	19.6	B5		
BM (30°-60°)	10321.5	37.8	B5		
BH (60°-80°)	1180.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	52.2	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-G3**

Type I Short





REPORT NUMBER: P638354  
 CATALOG NUMBER: IFLD-L-SA7C-727-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2
2.5°	11842.4	11766.1	11693.8	11669.7	11770.1	11878.5	11810.3	11814.3	11790.2	11834.3
5°	11930.7	11826.3	11778.1	11742.0	11758.0	11870.5	11774.1	11810.3	11770.1	11822.3
7.5°	11898.6	11826.3	11778.1	11709.9	11762.1	11894.6	11802.2	11806.2	11786.2	11834.3
10°	11878.5	11826.3	11766.1	11774.1	11834.3	11946.8	11874.5	11914.7	11886.5	11914.7
12.5°	11926.7	11870.5	11838.4	11838.4	11890.6	12019.1	11982.9	12019.1	12007.0	12031.1
15°	11472.9	11525.1	11830.3	11966.9	12071.3	12199.8	12183.7	12219.9	12227.9	12264.0
17.5°	9677.9	9625.7	9601.6	10304.4	12171.7	12569.2	12557.2	12553.2	12513.0	12484.9
20°	9914.8	9894.7	9866.6	9918.8	10127.7	12762.0	12842.3	12348.4	12203.8	12191.7
22.5°	10292.3	10260.2	10155.8	10159.8	10224.0	11095.5	12444.7	11995.0	11946.8	11918.7
25°	10477.0	10412.8	10328.4	10304.4	10324.4	10163.8	11115.5	11649.6	11412.7	11304.3
27.5°	10151.8	10155.8	10087.5	10151.8	10075.5	9352.6	8947.0	10975.0	10966.9	10918.8
30°	9906.8	9894.7	9814.4	9894.7	9368.7	8561.5	8388.9	10236.1	10151.8	10087.5
32.5°	9155.9	9163.9	9396.8	9710.0	8846.6	8208.1	7686.1	9143.8	9942.9	9906.8
35°	6549.6	6565.7	7393.0	8939.0	8055.5	7505.4	7465.2	7902.9	9613.6	9629.7
37.5°	6304.7	6304.7	6284.6	6537.6	7433.1	7220.3	7300.6	7256.4	8806.5	8846.6
40°	6128.0	6091.9	6063.7	5666.2	5168.2	7019.5	7075.7	6874.9	8324.6	8332.6
42.5°	5915.2	5875.0	5883.0	5148.2	4626.1	6521.5	6364.9	6095.9	7521.5	7529.5
45°	5525.6	5593.9	5642.1	4505.6	4465.5	4658.2	5871.0	5702.3	6979.3	7127.9
47.5°	2811.0	2871.2	4405.3	4144.2	4236.6	4140.2	4959.4	4963.4	5806.7	6300.7
50°	2550.0	2533.9	2537.9	2417.5	3911.3	3349.1	3586.0	4549.8	4650.2	5357.0
52.5°	2377.3	2373.3	2128.3	1891.4	2457.6	2947.5	2602.2	3292.9	3457.5	4537.8
55°	1758.9	1887.4	1678.6	1779.0	1538.0	2361.2	2349.2	2971.6	3027.9	3638.2
57.5°	16.1	20.1	48.2	1353.3	1064.2	1180.6	1622.4	2027.9	2128.3	2835.1
60°	4.0	8.0	20.1	40.2	690.7	726.8	1084.2	1172.6	1321.2	1690.6
62.5°	0.0	0.0	8.0	20.1	36.1	297.2	345.4	377.5	582.3	863.4
65°	0.0	0.0	4.0	12.0	20.1	48.2	84.3	176.7	253.0	313.2
67.5°	0.0	0.0	4.0	8.0	16.1	24.1	48.2	68.3	108.4	184.7
70°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	48.2	64.3	92.4
72.5°	0.0	0.0	4.0	8.0	8.0	24.1	24.1	36.1	48.2	60.2
75°	0.0	0.0	4.0	4.0	8.0	16.1	24.1	28.1	32.1	48.2
77.5°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	32.1	28.1	28.1
80°	0.0	0.0	4.0	12.0	12.0	20.1	24.1	32.1	20.1	20.1
82.5°	0.0	0.0	4.0	16.1	12.0	40.2	40.2	44.2	16.1	16.1
85°	0.0	0.0	12.0	8.0	24.1	40.2	36.1	24.1	20.1	12.0
87.5°	0.0	0.0	4.0	4.0	8.0	12.0	28.1	24.1	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638354

CATALOG NUMBER: IFLD-L-SA7C-727-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11790.2	0°	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2	11790.2
11717.9	2.5°	11878.5	11826.3	11934.7	11922.7	11870.5	11846.4	11818.3	11794.2	11617.5
11725.9	5°	11882.5	11802.2	11934.7	11910.6	11902.6	11862.5	11838.4	11874.5	11713.9
11758.0	7.5°	11882.5	11802.2	11946.8	11954.8	11942.8	11910.6	11906.6	11930.7	11798.2
11814.3	10°	11962.8	11930.7	12051.2	12063.2	12047.2	12039.1	12019.1	12003.0	11862.5
12007.0	12.5°	12131.5	12067.3	12203.8	12239.9	12227.9	12248.0	12199.8	12223.9	12079.3
12203.8	15°	12336.3	12340.3	12444.7	12525.0	12517.0	12581.3	12509.0	12573.2	12468.8
12428.7	17.5°	12649.5	12693.7	12842.3	12962.8	13006.9	13055.1	13006.9	13027.0	12878.4
12179.7	20°	12320.2	12484.9	13199.7	13420.6	13512.9	13557.1	13476.8	13500.9	13352.3
11874.5	22.5°	12023.1	12235.9	12870.4	13561.1	13846.2	13934.6	13906.5	13902.4	13846.2
11272.1	25°	11585.4	12015.1	12300.2	13031.0	13926.5	14087.2	14103.2	14099.2	14014.9
10902.7	27.5°	11047.3	11143.6	11882.5	12328.3	13364.3	13974.7	13950.6	13834.2	13721.7
10135.7	30°	10360.6	10798.3	11131.6	11842.4	12637.5	13629.4	13629.4	13541.0	13424.6
9862.6	32.5°	10011.2	10577.4	10886.6	11143.6	11822.3	13243.9	13404.5	13312.1	13219.8
9649.8	35°	9826.5	9910.8	10633.6	10866.6	11440.8	12501.0	13151.5	13059.1	12990.9
9083.6	37.5°	9420.9	9617.7	9955.0	10577.4	10754.1	11894.6	12814.2	12766.0	12685.7
8348.7	40°	8517.4	9043.4	9561.4	10151.8	10336.5	11115.5	12404.6	12424.7	12316.2
7565.6	42.5°	7983.3	8340.7	9151.8	9549.4	10047.3	10613.6	12007.0	12039.1	11962.8
7168.1	45°	7356.8	7754.4	8324.6	9047.4	9726.1	9922.9	11304.3	11641.6	11577.3
6377.0	47.5°	6782.6	7103.8	7802.6	8533.4	9284.4	9256.2	10497.1	11131.6	11043.2
5770.6	50°	5967.4	6529.6	6858.9	7529.5	8649.9	8726.2	9637.7	10533.2	10461.0
4903.2	52.5°	5031.7	5738.5	6368.9	6983.3	8007.4	8188.1	8838.6	9922.9	9874.7
3746.7	55°	4397.2	4911.2	5622.0	6116.0	7228.3	7710.2	8240.3	9340.6	9316.5
3080.1	57.5°	3128.3	4120.1	4706.4	5397.1	5983.4	6854.8	7248.4	8155.9	7931.1
1706.7	60°	2120.3	2586.1	3300.9	4043.8	4437.4	5308.8	5674.2	6401.1	6340.8
1020.0	62.5°	1120.4	1550.1	2060.1	2433.5	2718.6	3566.0	3718.6	4501.6	4481.6
409.6	65°	493.9	654.6	1116.4	1309.1	1602.3	1995.8	2128.3	2409.4	2341.2
200.8	67.5°	257.0	389.5	630.5	775.0	975.8	1124.4	1232.8	1321.2	1377.4
132.5	70°	156.6	285.1	389.5	538.1	670.6	791.1	875.4	995.9	1068.2
68.3	72.5°	116.5	180.7	269.1	413.6	485.9	626.5	710.8	799.1	863.4
56.2	75°	64.3	120.5	216.8	325.3	389.5	510.0	586.3	646.5	666.6
32.1	77.5°	40.2	92.4	180.7	253.0	305.2	413.6	393.5	449.8	498.0
24.1	80°	28.1	68.3	140.6	208.8	212.8	265.0	313.2	361.4	393.5
16.1	82.5°	20.1	56.2	104.4	160.6	140.6	204.8	245.0	281.1	204.8
12.0	85°	16.1	40.2	52.2	96.4	80.3	144.6	124.5	120.5	80.3
8.0	87.5°	12.0	20.1	36.1	44.2	32.1	32.1	40.2	48.2	40.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
11790.2  
11497.0  
11577.3  
11645.6  
11746.0  
11950.8  
12296.2  
12749.9  
13247.9  
13665.5  
*13886.4*  
13633.4  
13380.4  
13143.5  
12894.5  
12605.4  
12292.1  
11954.8  
11585.4  
11107.5  
10473.0  
9906.8  
9344.6  
7907.0  
6344.8  
4485.6  
2313.1  
1377.4  
1072.2  
875.4  
654.6  
506.0  
397.6  
148.6  
80.3  
40.2  
0.0

(END OF REPORT)