

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: P637482

Luminaire Tested: **IFLD-L-SA7A-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637482  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-827-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22191.8 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

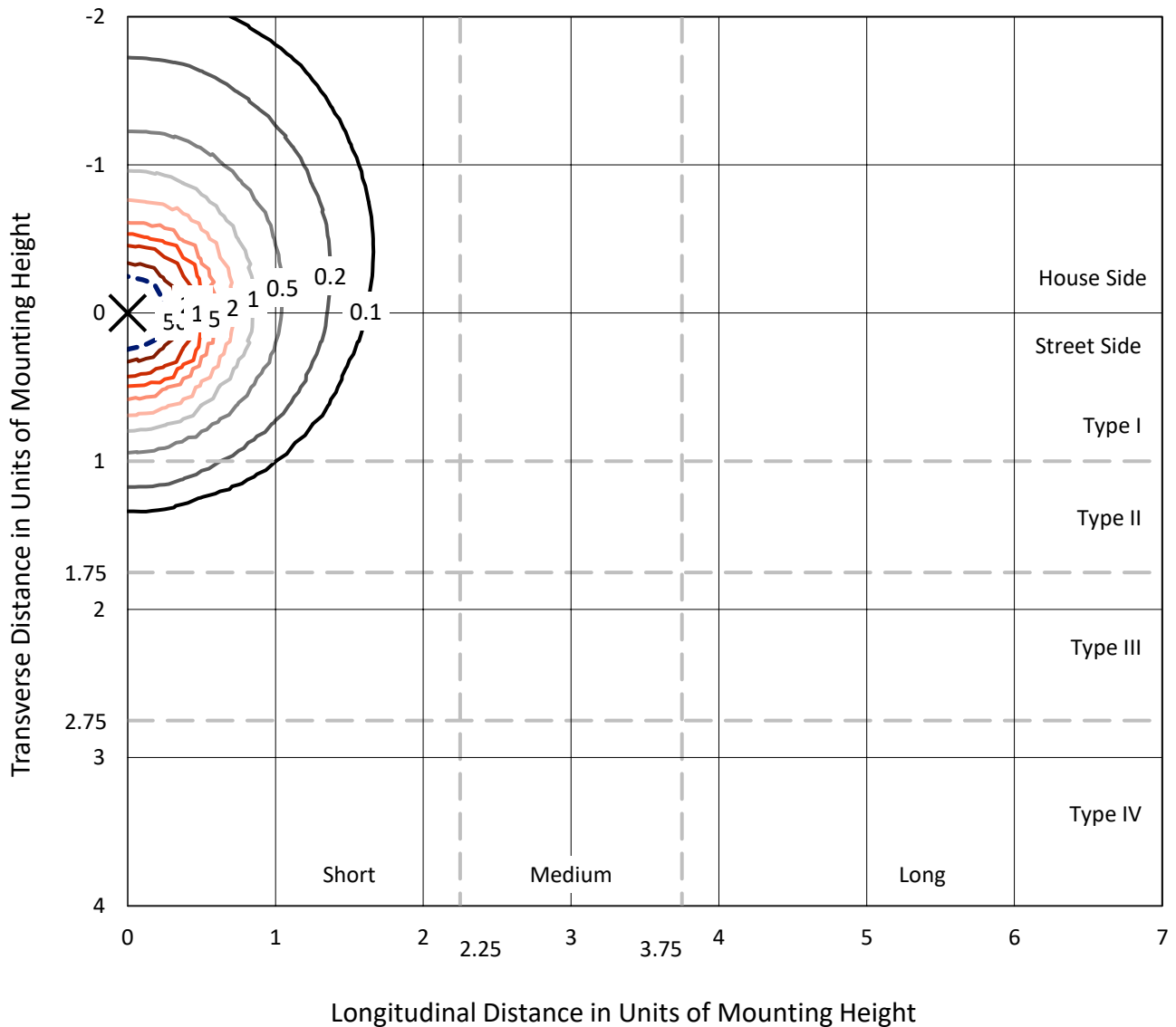
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P637482  
 CATALOG NUMBER: IFLD-L-SA7A-827-U-44-VI

### Iso-Footcandle Lines of Horizontal Illumination

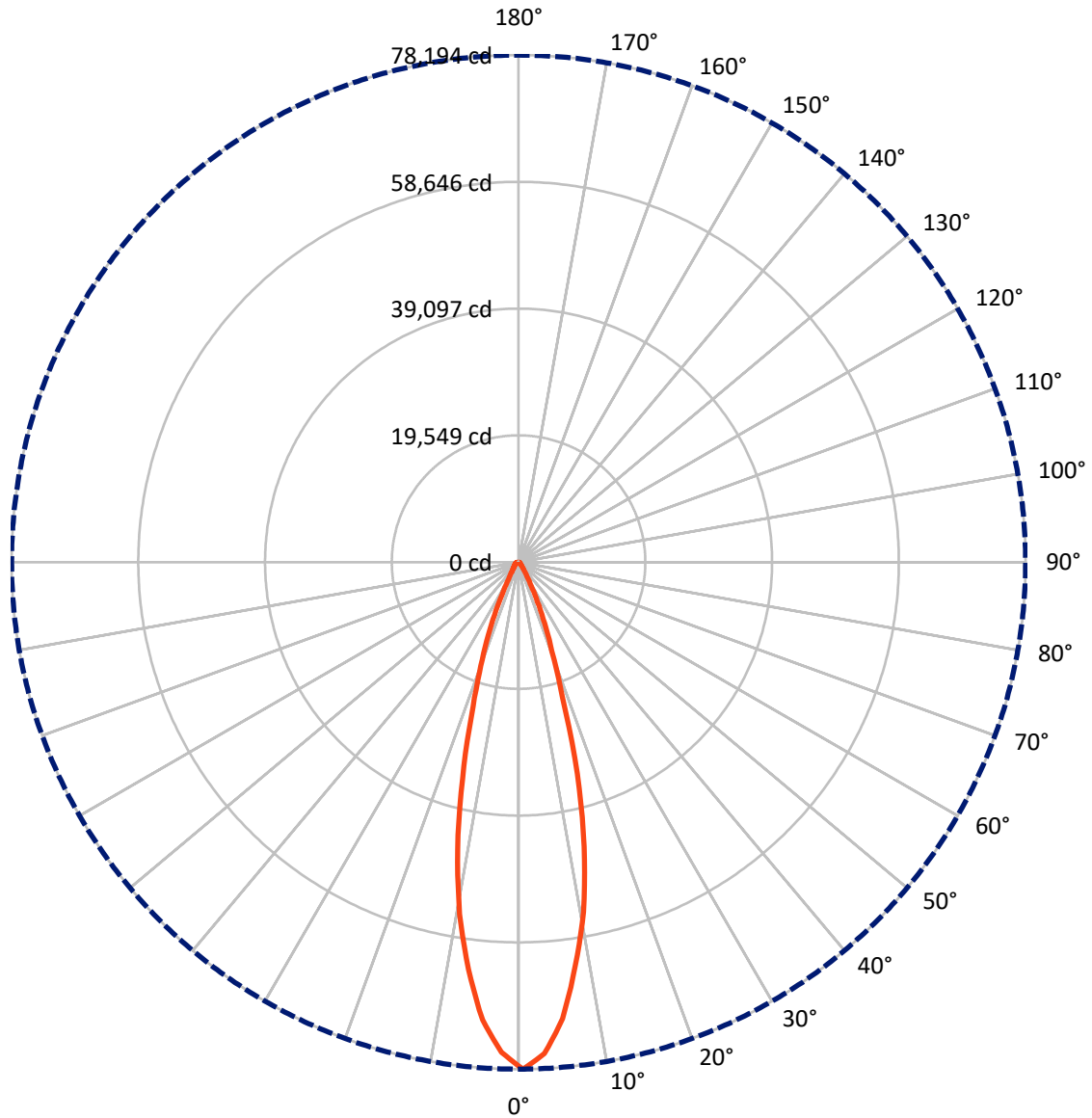
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 195.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P637482  
CATALOG NUMBER: IFLD-L-SA7A-827-U-44-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P637482

CATALOG NUMBER: IFLD-L-SA7A-827-U-44-VI

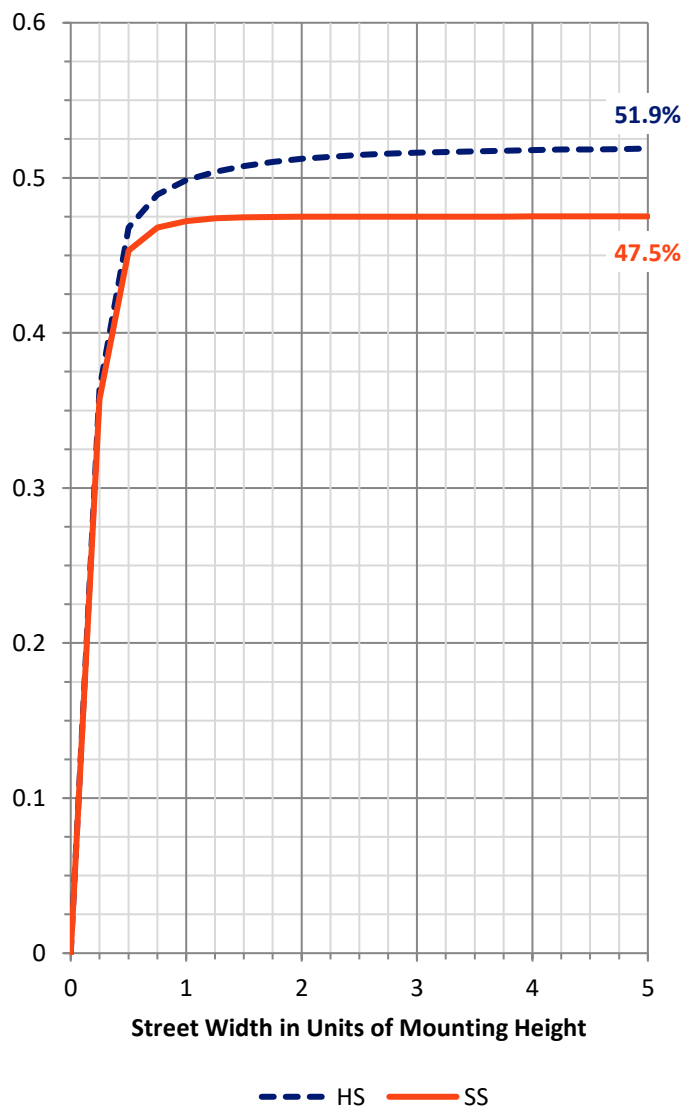
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11701.0	0.0	11701.0
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	10490.8	0.0	10490.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	22191.8	0.0	22191.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6311.0	28.4
10°-20°	9557.9	43.1
20°-30°	4033.5	18.2
30°-40°	1052.0	4.7
40°-50°	532.1	2.4
50°-60°	347.8	1.6
60°-70°	208.4	0.9
70°-80°	109.6	0.5
80°-90°	39.6	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°	22191.8	100.0
0°-180°	22191.8	100.0



REPORT NUMBER: P637482

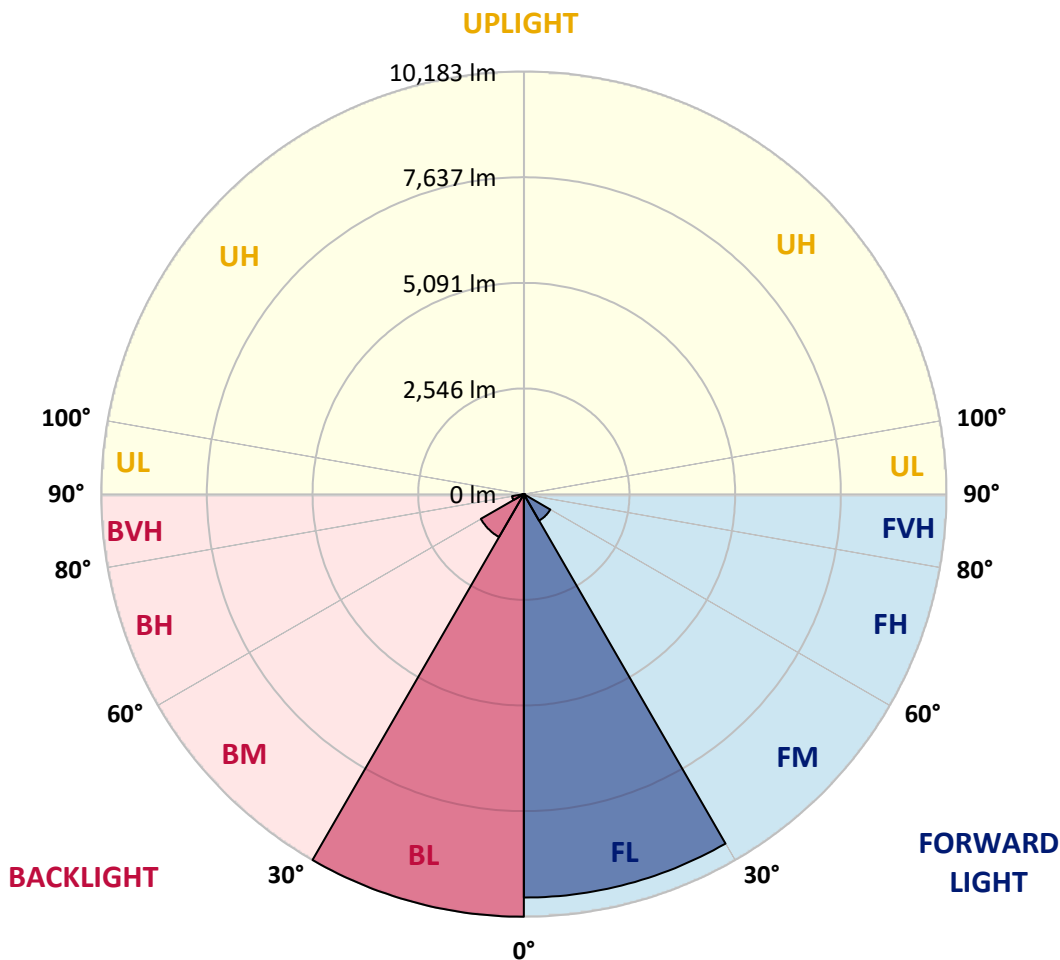
CATALOG NUMBER: IFLD-L-SA7A-827-U-44-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9719.9	43.8			
FM (30°-60°)	736.1	3.3			
FH (60°-80°)	30.0	0.1			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	10182.5	45.9	B5		
BM (30°-60°)	1195.7	5.4	B2/2500		
BH (60°-80°)	288.0	1.3	B1/500		G0/660
BVH (80°-90°)	34.8	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-G1**

Type V Short





REPORT NUMBER: P637482  
 CATALOG NUMBER: IFLD-L-SA7A-827-U-44-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3
2.5°	75916.5	75958.8	75801.8	76140.8	75876.6	76584.4	76233.0	76781.3	76596.8	76903.4
5°	70732.8	70663.0	70618.1	71144.0	70991.9	71752.1	71266.1	71106.6	71600.0	71510.3
7.5°	62904.9	63089.3	62984.6	63121.7	63198.9	64066.2	64340.3	64126.0	64133.5	64258.1
10°	54880.1	54608.4	54222.1	54478.8	55022.1	55400.9	55248.9	55562.9	55493.1	55789.7
12.5°	45006.1	45220.4	45003.6	44774.3	45723.8	45619.2	45883.3	46055.3	45624.2	46583.6
15°	33901.0	34013.1	34277.3	34259.9	34990.1	35137.1	35102.2	35284.1	34947.7	35107.2
17.5°	21779.1	22157.9	22868.1	24069.4	25420.1	25577.1	25537.3	25387.7	25225.7	25046.3
20°	14629.0	14589.2	14845.9	15197.3	17993.5	18733.6	18711.2	18242.7	17564.8	17435.2
22.5°	10247.8	10322.6	10287.7	10636.6	11214.8	13255.9	13004.1	12528.1	12306.3	12161.8
25°	6741.3	6713.9	6888.4	6993.0	7489.0	7738.2	8620.4	8443.5	8102.0	8139.4
27.5°	4109.6	4144.5	4209.3	4299.0	4650.4	4570.6	5074.1	5141.3	5031.7	4914.6
30°	2522.1	2547.0	2599.3	2664.1	2786.2	2699.0	2838.6	3080.3	3040.4	2958.2
32.5°	1712.1	1714.6	1752.0	1776.9	1762.0	1679.7	1724.6	1953.9	1958.8	1951.4
35°	1231.1	1231.1	1266.0	1286.0	1243.6	1176.3	1183.8	1325.8	1388.1	1400.6
37.5°	849.8	852.3	912.1	971.9	924.6	907.1	877.2	971.9	1071.6	1086.6
40°	645.5	643.0	672.9	717.7	722.7	690.3	700.3	760.1	862.3	874.8
42.5°	523.4	525.8	540.8	535.8	538.3	580.7	595.6	623.0	717.7	740.2
45°	441.1	443.6	451.1	426.2	416.2	481.0	500.9	515.9	595.6	623.0
47.5°	363.9	368.8	376.3	348.9	343.9	386.3	421.2	436.1	505.9	535.8
50°	261.7	266.7	294.1	279.1	294.1	304.0	351.4	373.8	421.2	461.1
52.5°	189.4	194.4	201.9	204.4	241.7	246.7	281.6	316.5	338.9	383.8
55°	149.5	154.5	149.5	144.5	176.9	204.4	216.8	254.2	271.6	324.0
57.5°	84.7	89.7	97.2	112.1	117.1	157.0	169.5	201.9	216.8	266.7
60°	15.0	17.4	27.4	67.3	82.2	99.7	127.1	154.5	174.5	209.3
62.5°	2.5	2.5	5.0	15.0	47.4	69.8	92.2	109.7	127.1	159.5
65°	0.0	0.0	2.5	5.0	12.5	39.9	49.8	64.8	87.2	114.6
67.5°	0.0	0.0	2.5	5.0	7.5	15.0	22.4	39.9	49.8	77.3
70°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	17.4	29.9	47.4
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	15.0	15.0	29.9
75°	0.0	0.0	2.5	5.0	7.5	12.5	15.0	15.0	12.5	12.5
77.5°	0.0	0.0	2.5	5.0	10.0	15.0	17.4	15.0	10.0	10.0
80°	0.0	0.0	5.0	7.5	12.5	17.4	22.4	17.4	10.0	5.0
82.5°	0.0	0.0	5.0	10.0	12.5	19.9	27.4	22.4	10.0	5.0
85°	0.0	0.0	2.5	7.5	15.0	19.9	27.4	19.9	10.0	2.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	15.0	12.5	5.0	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637482  
 CATALOG NUMBER: IFLD-L-SA7A-827-U-44-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
78194.3	0°	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3	78194.3
76322.7	2.5°	76761.3	77160.1	77242.3	77132.7	77292.2	77005.6	76786.2	76218.0	75876.6
71482.9	5°	71944.0	71884.1	72300.3	72437.4	72420.0	72200.6	71894.1	71550.2	71216.2
64016.4	7.5°	64415.1	64492.4	64871.2	65112.9	64990.8	64716.7	64504.8	64245.6	64021.3
55896.9	10°	56407.8	55876.9	56348.0	56348.0	56674.4	55899.4	55971.6	55318.7	55348.6
46566.2	12.5°	46725.7	46917.6	46994.8	47216.6	46835.3	46424.1	45920.7	45821.0	45509.5
34803.1	15°	35304.1	35852.4	35381.3	36186.3	35797.5	35368.9	35291.6	34519.0	34763.3
25243.2	17.5°	25118.6	25724.2	25913.6	26374.6	26020.7	25766.5	25445.1	25210.8	25193.3
17672.0	20°	17811.5	18419.6	18559.2	19112.4	19072.6	18992.8	18721.2	18424.6	18103.1
12029.7	22.5°	12211.6	12707.6	13171.1	13916.3	13903.8	13669.6	13642.1	13223.5	13230.9
8127.0	25°	8211.7	8573.1	8682.7	9445.3	9530.1	9505.1	9363.1	8974.3	9121.3
4964.4	27.5°	4969.4	5285.9	5657.2	5926.4	6180.6	6140.7	5998.7	5781.8	5687.1
2983.1	30°	3062.9	3204.9	3342.0	3666.0	3818.0	3897.8	3830.5	3628.6	3643.6
1963.8	32.5°	2006.2	2125.8	2225.5	2429.9	2509.6	2656.7	2629.2	2586.9	2537.0
1413.1	35°	1462.9	1550.1	1617.4	1712.1	1814.3	1938.9	1958.8	1941.4	1921.5
1091.6	37.5°	1116.5	1206.2	1283.5	1323.3	1403.1	1500.3	1555.1	1552.6	1537.7
889.7	40°	907.1	974.4	1044.2	1096.6	1151.4	1223.7	1290.9	1298.4	1298.4
747.7	42.5°	757.6	814.9	884.7	939.5	979.4	1046.7	1116.5	1121.5	1116.5
633.0	45°	648.0	697.8	765.1	829.9	862.3	912.1	979.4	994.4	984.4
543.3	47.5°	563.2	608.1	665.4	735.2	770.1	814.9	877.2	894.7	892.2
468.5	50°	483.5	535.8	593.1	650.5	695.3	737.7	797.5	817.4	810.0
398.7	52.5°	426.2	473.5	523.4	585.7	638.0	675.4	722.7	757.6	747.7
336.4	55°	356.4	413.7	466.0	518.4	583.2	623.0	667.9	710.3	700.3
284.1	57.5°	309.0	356.4	416.2	463.5	528.3	575.7	620.6	665.4	662.9
231.8	60°	259.2	309.0	366.3	416.2	476.0	528.3	573.2	623.0	628.0
174.5	62.5°	204.4	264.2	314.0	371.3	431.1	488.5	528.3	578.2	585.7
132.1	65°	154.5	216.8	271.6	326.5	386.3	448.6	483.5	525.8	533.3
97.2	67.5°	114.6	167.0	231.8	281.6	343.9	403.7	436.1	471.0	483.5
59.8	70°	87.2	127.1	194.4	241.7	306.5	353.9	388.8	418.7	428.7
39.9	72.5°	54.8	99.7	157.0	206.9	264.2	306.5	331.5	348.9	363.9
22.4	75°	37.4	77.3	127.1	176.9	219.3	251.7	274.1	289.1	301.6
10.0	77.5°	22.4	59.8	104.7	147.0	174.5	199.4	221.8	231.8	239.2
7.5	80°	12.5	44.9	87.2	119.6	137.1	154.5	172.0	184.4	189.4
5.0	82.5°	7.5	34.9	69.8	92.2	99.7	117.1	134.6	142.1	142.1
2.5	85°	5.0	24.9	47.4	67.3	72.3	84.7	89.7	94.7	99.7
2.5	87.5°	5.0	15.0	29.9	37.4	39.9	44.9	47.4	52.3	57.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
78194.3
75624.9
70842.4
63261.2
55057.0
45225.4
34519.0
24729.8
17963.6
13086.4
8889.6
5604.9
3578.8
2519.6
1914.0
1530.2
1283.5
1111.5
984.4
887.2
805.0
745.2
705.3
665.4
630.5
590.6
540.8
488.5
433.6
361.4
299.1
236.8
184.4
139.6
97.2
54.8
0.0

(END OF REPORT)