

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: P637205

Luminaire Tested: **IFLD-S-SA2E-827-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637205  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-827-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13231.4 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

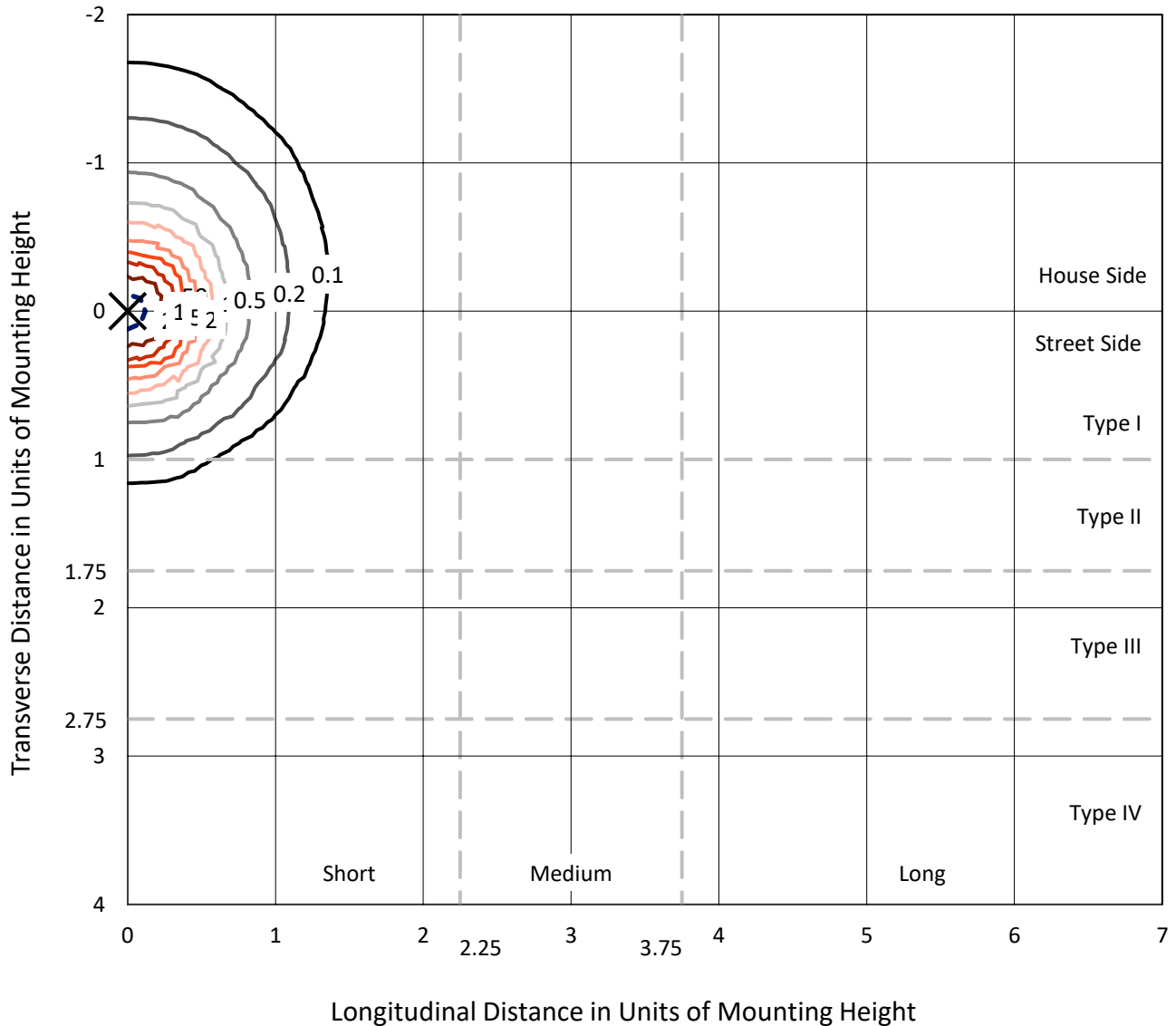
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P637205  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-33-VI

### Iso-Footcandle Lines of Horizontal Illumination

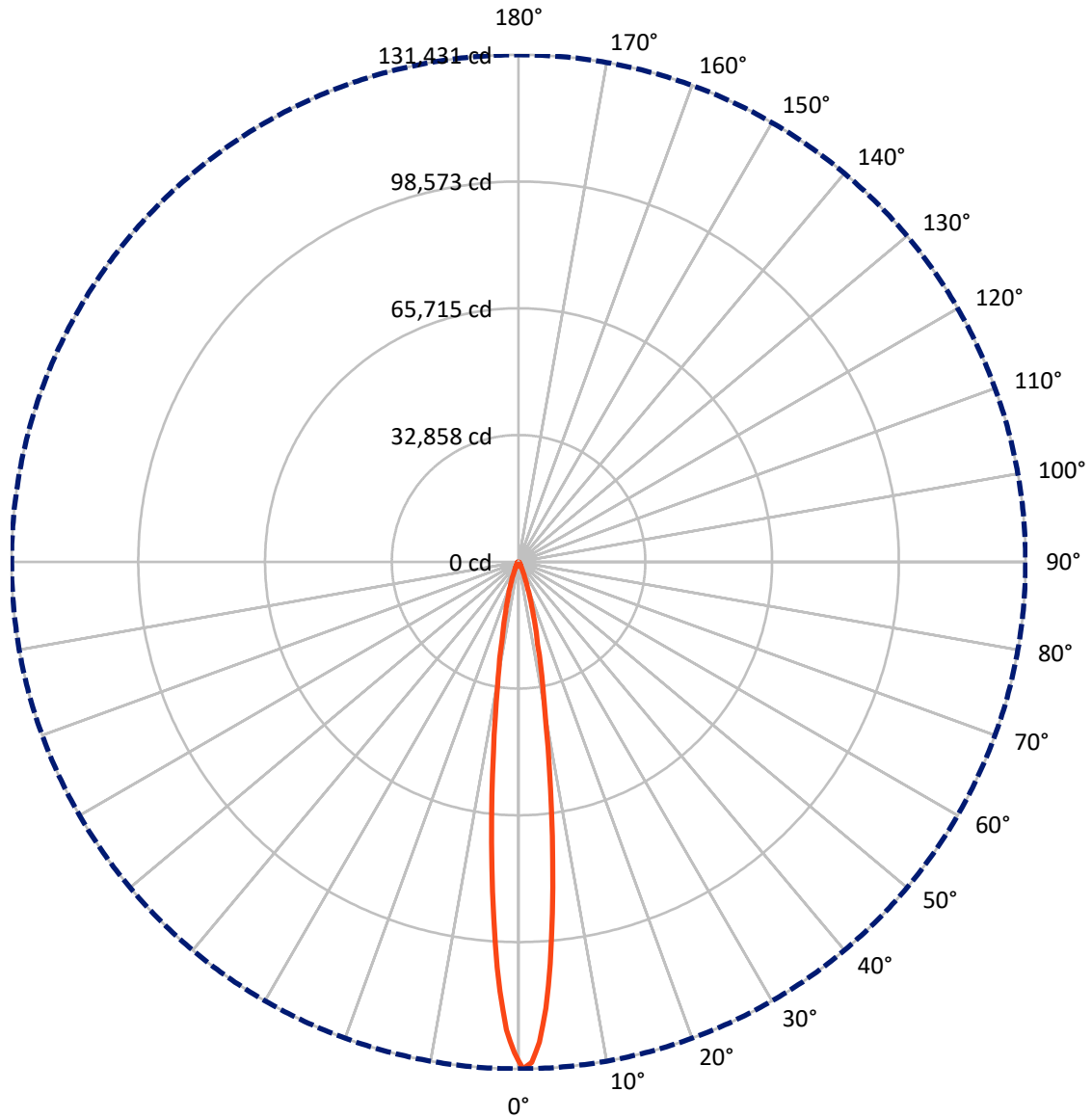
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 328.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P637205  
CATALOG NUMBER: IFLD-S-SA2E-827-U-33-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P637205  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-33-VI

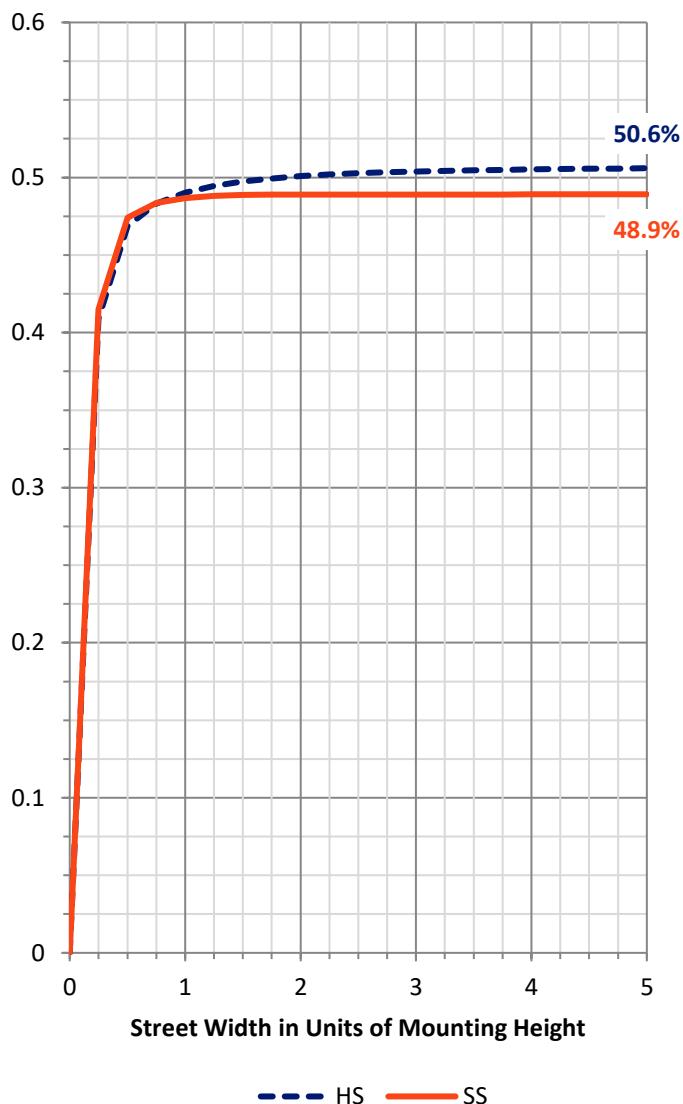
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6776.9	0.0	6776.9
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	6454.5	0.0	6454.5
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	13231.4	0.0	13231.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6679.6	50.5
10°-20°	4276.3	32.3
20°-30°	1285.4	9.7
30°-40°	418.5	3.2
40°-50°	243.5	1.8
50°-60°	161.7	1.2
60°-70°	97.4	0.7
70°-80°	50.0	0.4
80°-90°	19.0	0.1
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°	13231.4	100.0
0°-180°	13231.4	100.0

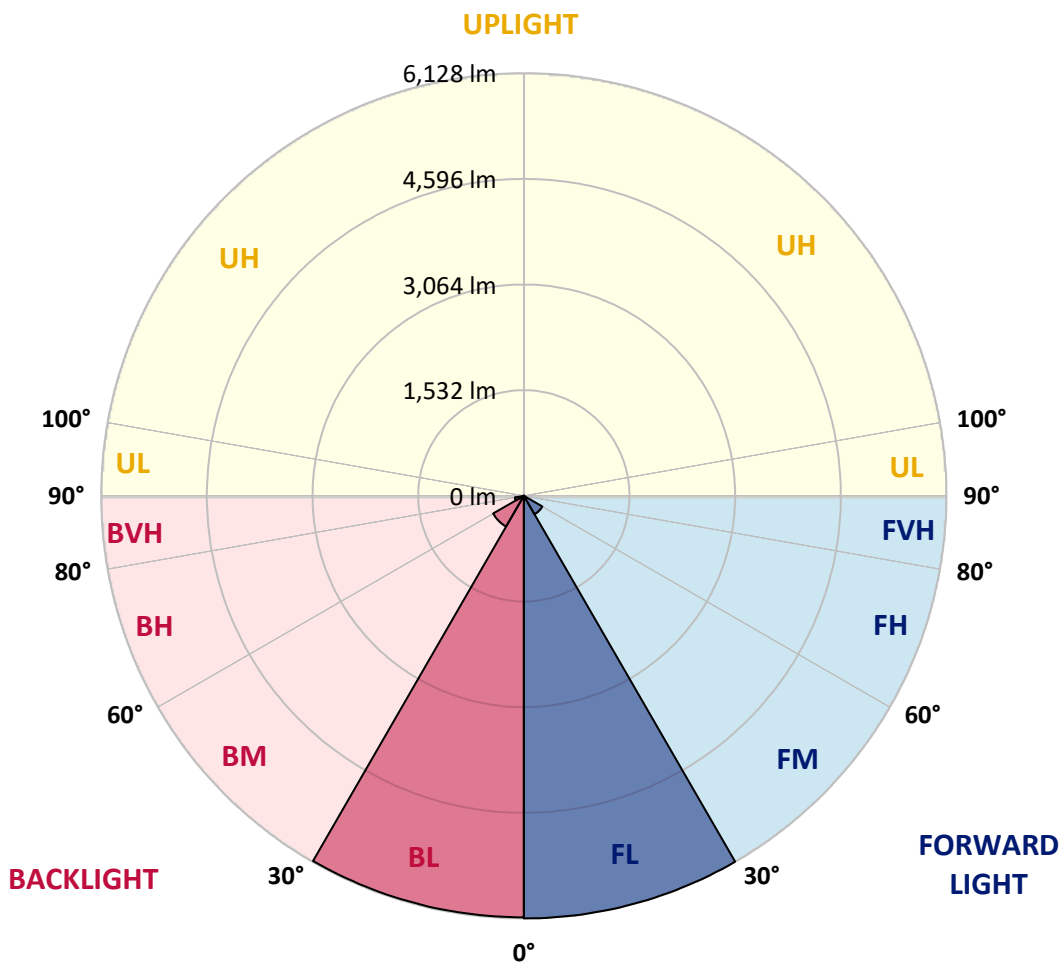


REPORT NUMBER: P637205  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-33-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6127.9	46.3			
FM (30°-60°)	309.2	2.3			
FH (60°-80°)	14.6	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	6113.4	46.2	B5		
BM (30°-60°)	514.5	3.9	B1/1000		
BH (60°-80°)	132.9	1.0	B1/500		G0/660
BVH (80°-90°)	16.1	0.1			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: P637205  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-33-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	131430.9	131430.9	131430.9	131430.9	131430.9	131430.9	131430.9	131430.9	131430.9	131430.9
1°	129857.3	129460.9	128437.8	129165.5	129805.4	129619.5	129606.5	129537.3	129440.8	130198.8
2°	124666.4	124409.8	122896.7	123520.7	124430.0	123767.1	124182.1	123817.5	123824.8	124729.8
3°	115915.9	116055.7	113641.8	114776.0	116039.9	114433.0	114931.6	115868.4	114887.0	114591.5
4°	104542.7	103329.2	102010.6	103163.5	103490.6	102555.4	103474.8	104621.9	103258.6	103319.2
5°	91558.2	90661.9	89101.1	89813.0	89001.7	89297.1	90674.8	91147.5	90196.4	88998.8
6°	78207.8	77570.8	75619.5	76645.6	76357.4	76190.2	77929.6	76488.5	77007.3	76282.4
7°	65053.3	63862.9	62904.6	63887.4	63950.8	63447.9	65706.1	65443.8	64499.9	64280.8
8°	53897.6	52710.1	51898.8	52630.9	53109.3	52319.6	53381.7	54079.2	53341.4	53407.6
9°	43471.2	43262.2	42133.8	43090.7	43611.0	42765.0	43941.0	44193.2	43502.9	43838.7
10°	35693.5	35449.9	34549.2	34936.9	35798.7	34789.9	35918.3	36000.4	35449.9	35607.0
12.5°	22057.7	21959.7	21935.2	21991.4	21979.9	22158.6	22446.8	22118.2	22075.0	21531.7
15°	14256.9	14402.5	14252.6	14540.8	14582.6	14751.2	14575.4	14310.3	13804.4	13553.7
17.5°	8897.4	9083.3	9339.9	9762.1	10184.3	10233.3	9999.9	9688.6	9443.6	9175.6
20°	5118.8	5209.6	5170.7	5676.5	6768.9	7065.8	6764.6	6437.5	6142.0	5871.1
22.5°	3180.5	3147.4	3207.9	3378.0	3733.9	4651.9	4405.5	4078.3	3863.6	3640.3
25°	1949.8	1985.9	1962.8	2056.5	2216.4	2605.5	2661.7	2520.5	2411.0	2295.7
27.5°	1255.2	1255.2	1265.3	1317.2	1426.7	1413.7	1713.5	1604.0	1544.9	1488.7
30°	871.9	874.8	874.8	905.0	929.5	886.3	964.1	1105.3	1078.0	1034.7
32.5°	647.1	655.7	662.9	678.8	658.6	612.5	631.2	795.5	779.6	763.8
35°	492.9	500.1	517.4	526.0	497.2	468.4	451.1	585.1	592.3	588.0
37.5°	358.8	363.2	394.9	428.0	394.9	368.9	358.8	449.6	484.2	479.9
40°	275.3	276.7	282.5	319.9	319.9	299.8	302.6	335.8	396.3	396.3
42.5°	236.3	236.3	242.1	236.3	237.8	259.4	266.6	270.9	335.8	335.8
45°	204.6	204.6	207.5	193.1	178.7	223.4	229.1	230.6	282.5	289.7
47.5°	171.5	171.5	177.3	158.5	151.3	177.3	193.1	197.4	243.5	249.3
50°	126.8	128.3	145.6	129.7	134.0	136.9	167.2	170.1	206.1	219.0
52.5°	85.0	85.0	87.9	100.9	116.7	112.4	135.5	145.6	164.3	181.6
55°	69.2	69.2	67.7	64.9	86.5	93.7	99.4	121.1	134.0	155.6
57.5°	47.6	50.4	46.1	53.3	56.2	70.6	74.9	95.1	102.3	131.1
60°	5.8	7.2	10.1	38.9	37.5	47.6	56.2	74.9	83.6	100.9
62.5°	1.4	1.4	2.9	7.2	25.9	31.7	44.7	51.9	60.5	77.8
65°	0.0	0.0	1.4	2.9	5.8	17.3	23.1	30.3	43.2	54.8
67.5°	0.0	0.0	1.4	2.9	2.9	7.2	11.5	18.7	23.1	40.4
70°	0.0	0.0	1.4	2.9	2.9	5.8	7.2	8.6	15.9	21.6
72.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	7.2	7.2	14.4
75°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	7.2	5.8	5.8
77.5°	0.0	0.0	1.4	2.9	5.8	7.2	8.6	7.2	4.3	4.3
80°	0.0	0.0	1.4	4.3	7.2	10.1	11.5	8.6	4.3	2.9
82.5°	0.0	0.0	2.9	5.8	8.6	11.5	15.9	13.0	5.8	2.9
85°	0.0	0.0	1.4	4.3	8.6	11.5	23.1	15.9	7.2	1.4
87.5°	0.0	0.0	0.0	1.4	1.4	2.9	8.6	5.8	2.9	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637205

CATALOG NUMBER: IFLD-S-SA2E-827-U-33-VI

**CANDELA DISTRIBUTION (continued):**

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
131430.9	0°	131430.9	131430.9	131430.9	131430.9	131430.9	131430.9	131430.9	131430.9
129324.0	1°	130227.6	130318.4	130021.5	130481.3	130319.9	129374.5	129061.8	128158.2
124198.0	2°	123817.5	124280.1	124303.2	124813.4	124806.2	123703.7	123362.2	123991.9
115191.0	3°	114842.3	115381.3	114895.6	115802.1	115529.7	114192.4	113845.0	114559.8
103797.6	4°	103487.8	103385.4	103218.3	102702.4	103337.9	102425.7	101738.3	102708.1
90586.9	5°	90405.3	90177.6	89852.0	89699.2	90171.9	89588.2	88174.5	89591.1
77593.8	6°	77689.0	76709.0	76661.4	76576.4	76624.0	74989.8	75087.8	76142.6
63527.1	7°	64198.7	64378.8	64011.4	64600.8	64151.1	63044.4	62617.8	63728.9
53698.8	8°	53324.1	53096.4	52815.4	53695.9	52916.2	52189.9	51692.7	52570.4
43893.4	9°	43811.3	43417.9	43132.5	43087.8	43208.9	41845.6	42122.3	42786.6
35693.5	10°	35706.5	35060.8	35217.9	35259.7	35127.1	34233.6	34242.3	34471.4
21891.9	12.5°	21814.1	21497.1	21576.3	21619.6	21889.1	21574.9	21131.0	20811.1
13803.0	15°	13710.7	13483.1	13948.5	14261.3	14197.8	13918.3	13709.3	13419.6
9175.6	17.5°	9090.5	9388.9	9390.3	9675.6	9704.5	9424.9	9263.5	9002.6
5967.6	20°	5946.0	6070.0	6327.9	6529.7	6646.4	6433.1	6240.0	6061.3
3721.0	22.5°	3721.0	3937.1	4098.5	4360.8	4467.5	4311.8	4174.9	4029.4
2323.1	25°	2284.2	2438.4	2572.4	2800.1	2945.6	2870.7	2745.3	2643.0
1500.2	27.5°	1523.3	1588.1	1654.4	1811.5	1962.8	1921.0	1870.6	1808.6
1057.8	30°	1073.6	1079.4	1150.0	1237.9	1338.8	1364.7	1341.7	1310.0
776.8	32.5°	791.2	814.2	847.4	902.1	969.9	1031.8	1020.3	1005.9
593.7	35°	611.0	645.6	673.0	714.8	750.8	809.9	820.0	815.7
488.5	37.5°	498.6	528.9	556.3	580.8	611.0	651.4	683.1	684.5
403.5	40°	413.6	441.0	477.0	495.7	517.4	547.6	586.5	589.4
341.5	42.5°	348.7	374.7	410.7	433.8	449.6	478.4	517.4	523.1
292.5	45°	299.8	315.6	353.1	380.5	396.3	415.0	456.8	462.6
252.2	47.5°	260.8	276.7	299.8	338.7	353.1	370.4	403.5	413.6
223.4	50°	229.1	245.0	265.2	299.8	321.4	335.8	363.2	377.6
194.6	52.5°	203.2	219.0	240.7	268.0	292.5	305.5	331.5	350.2
158.5	55°	170.1	197.4	213.3	237.8	270.9	282.5	302.6	327.1
138.3	57.5°	148.4	171.5	194.6	214.7	247.9	262.3	282.5	305.5
109.5	60°	125.4	147.0	174.4	191.7	223.4	242.1	263.7	285.3
83.6	62.5°	99.4	128.3	147.0	171.5	201.8	226.3	243.5	265.2
64.9	65°	73.5	105.2	126.8	152.8	181.6	207.5	221.9	245.0
46.1	67.5°	53.3	82.1	108.1	132.6	160.0	185.9	200.3	220.5
28.8	70°	41.8	60.5	89.3	111.0	139.8	161.4	177.3	190.2
18.7	72.5°	24.5	46.1	72.1	96.6	122.5	136.9	148.4	160.0
8.6	75°	15.9	36.0	59.1	80.7	99.4	112.4	122.5	132.6
4.3	77.5°	10.1	25.9	47.6	67.7	76.4	92.2	100.9	106.6
2.9	80°	5.8	20.2	41.8	54.8	62.0	72.1	80.7	87.9
2.9	82.5°	4.3	17.3	34.6	46.1	46.1	57.6	62.0	62.0
1.4	85°	2.9	14.4	27.4	43.2	34.6	43.2	40.4	40.4
1.4	87.5°	2.9	10.1	13.0	18.7	15.9	18.7	18.7	21.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
131430.9  
127224.3  
121324.4  
111385.1  
99197.6  
85858.6  
73084.6  
60706.9  
50064.3  
40711.4  
32912.1  
20616.6  
13271.2  
8937.8  
5999.4  
3951.5  
2583.9  
1772.6  
1288.4  
994.4  
801.3  
674.4  
585.1  
518.8  
461.2  
415.0  
379.0  
350.2  
328.6  
307.0  
291.1  
275.3  
249.3  
221.9  
194.6  
162.8  
132.6  
103.8  
79.3  
57.6  
38.9  
21.6  
0.0

(END OF REPORT)