

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: P637007

Luminaire Tested: **IFLD-S-SA3E-722-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637007
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19758.9 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

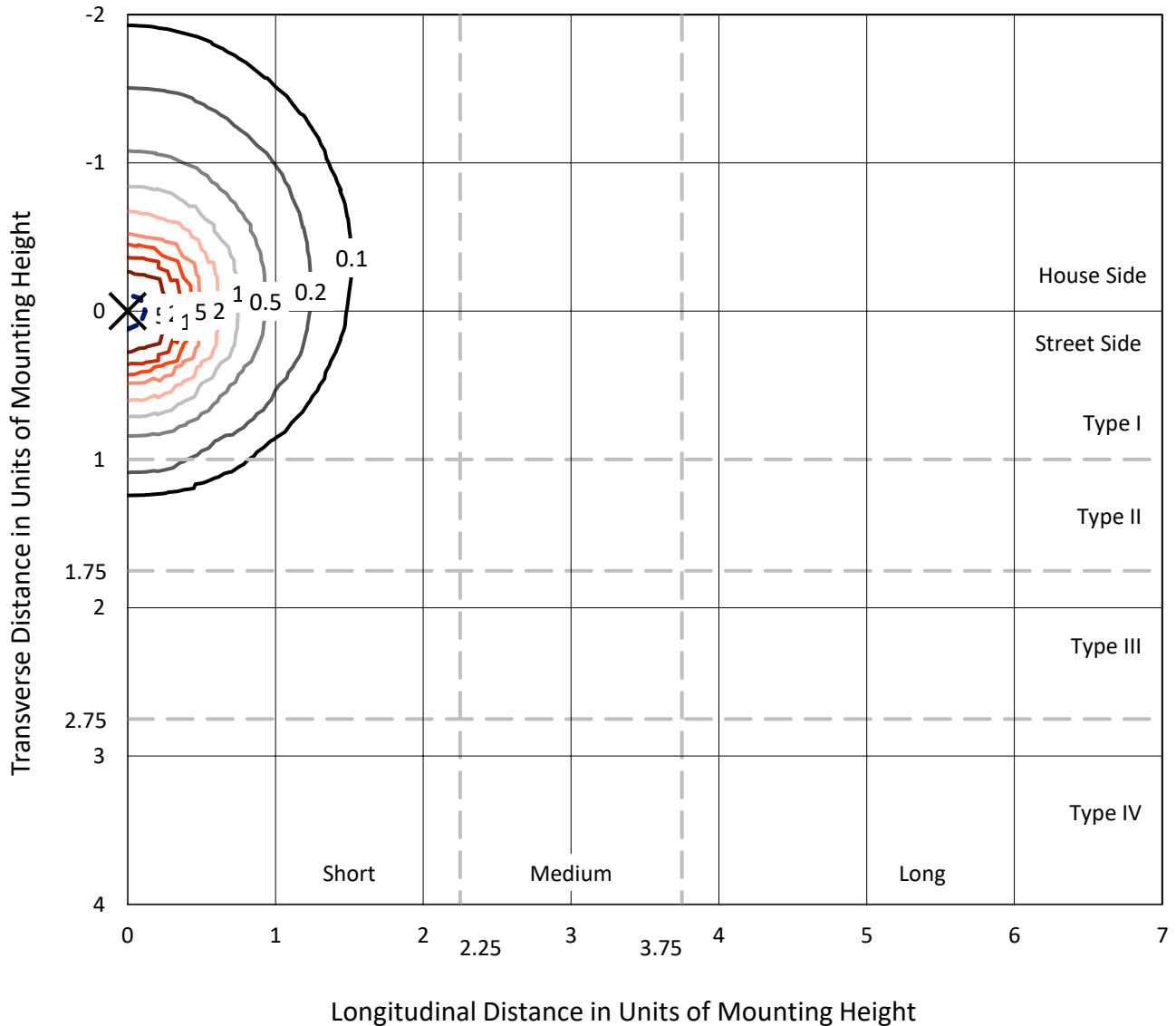
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637007
 CATALOG NUMBER: IFLD-S-SA3E-722-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

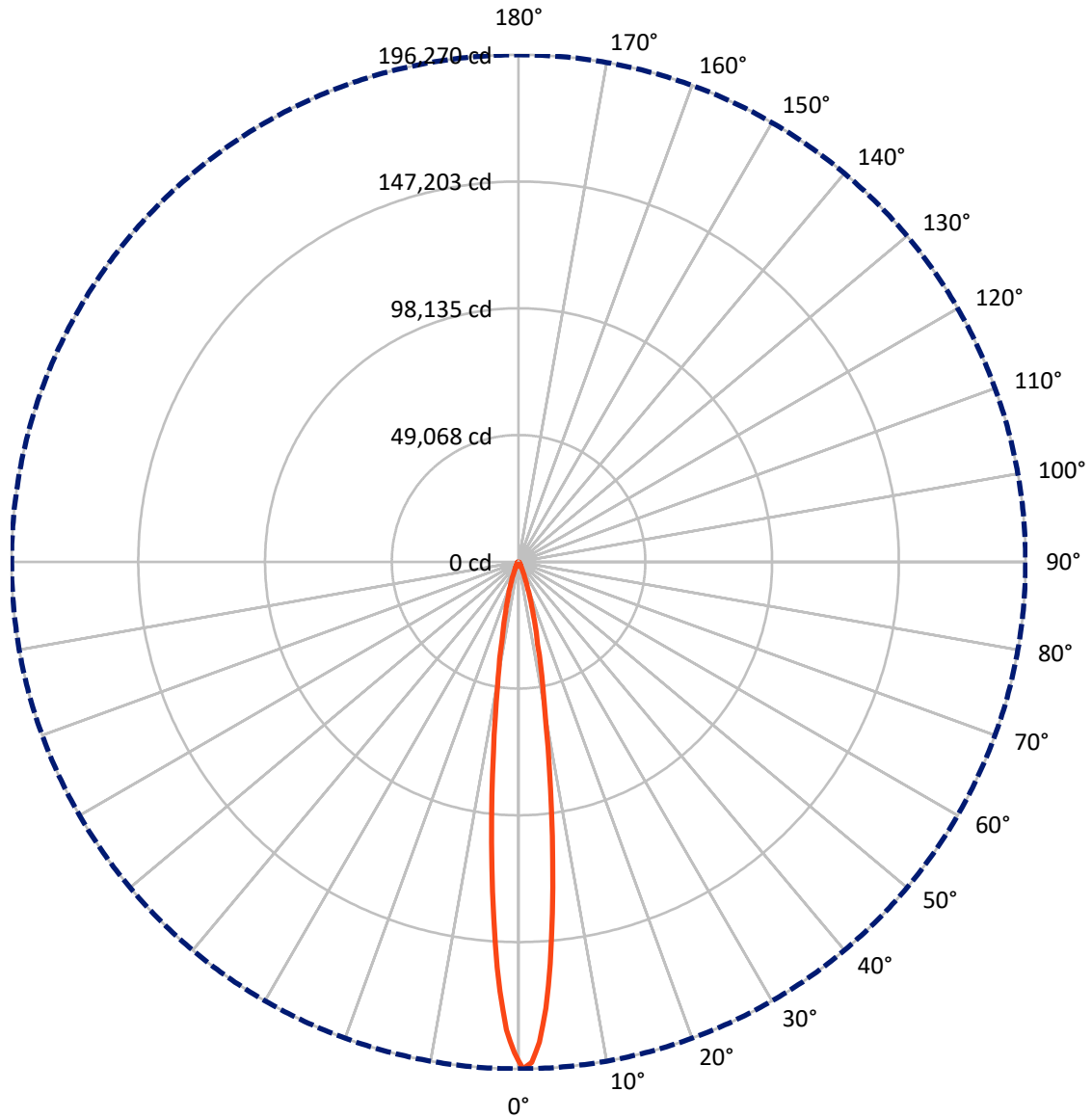
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 490.7 fc
 Type V - Short - N/A

REPORT NUMBER: P637007
CATALOG NUMBER: IFLD-S-SA3E-722-U-33-VI

Luminous Intensity Polar Plot



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

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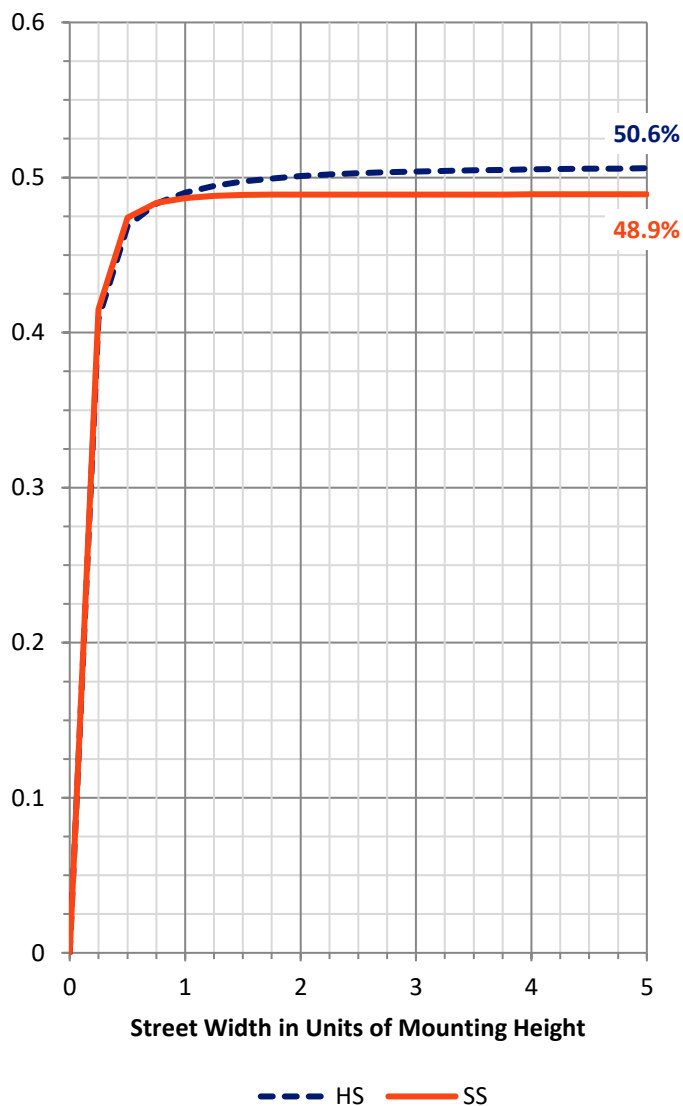
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10120.2	0.0	10120.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	9638.8	0.0	9638.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	19758.9	0.0	19758.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9974.9	50.5
10°-20°	6385.9	32.3
20°-30°	1919.5	9.7
30°-40°	625.0	3.2
40°-50°	363.6	1.8
50°-60°	241.5	1.2
60°-70°	145.4	0.7
70°-80°	74.7	0.4
80°-90°	28.4	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°	19758.9	100.0
0°-180°	19758.9	100.0

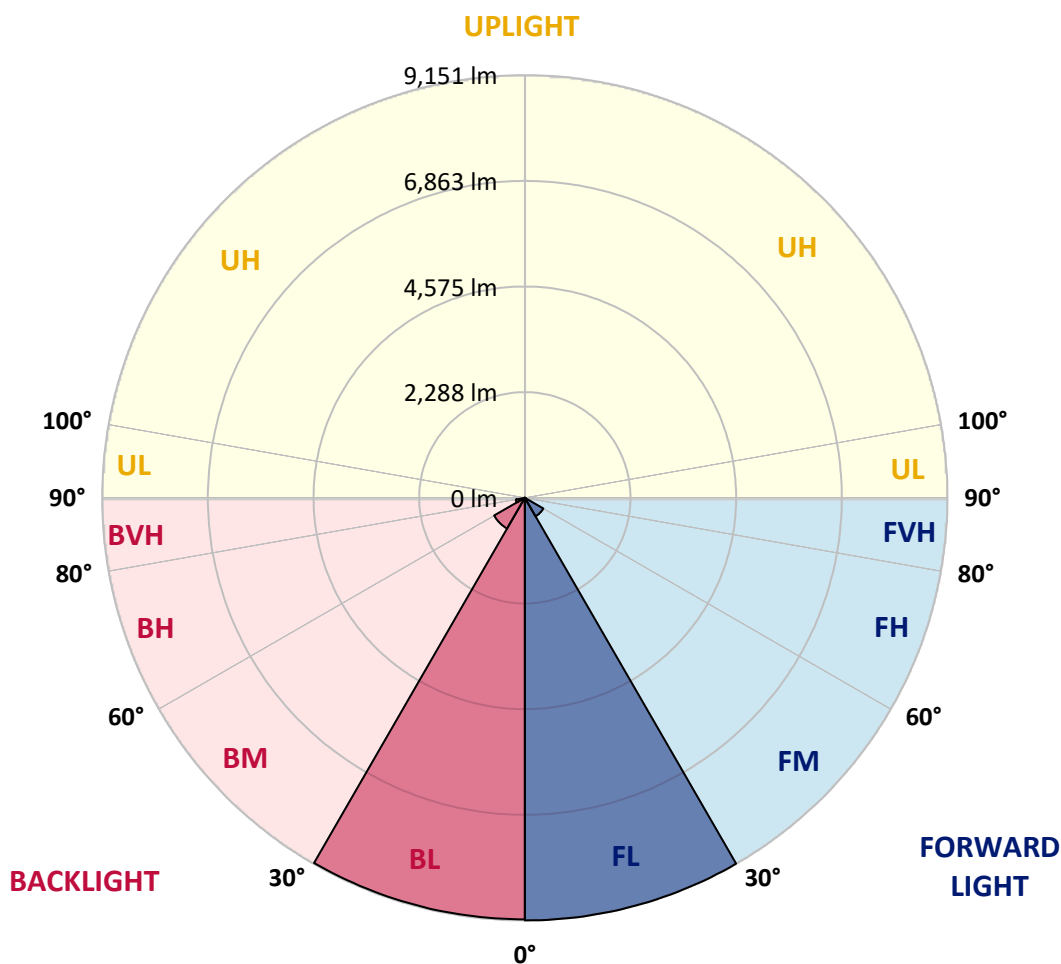


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9151.0	46.3			
FM (30°-60°)	461.8	2.3			
FH (60°-80°)	21.7	0.1			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	9129.3	46.2	B5		
BM (30°-60°)	768.4	3.9	B1/1000		
BH (60°-80°)	198.4	1.0	B1/500		G0/660
BVH (80°-90°)	24.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	196270.2	196270.2	196270.2	196270.2	196270.2	196270.2	196270.2	196270.2	196270.2	196270.2
1°	193920.2	193328.3	191800.4	192887.2	193842.7	193565.1	193545.7	193442.4	193298.2	194430.2
2°	186168.4	185785.4	183525.7	184457.5	185815.5	184825.5	185445.3	184900.9	184911.6	186263.1
3°	173101.1	173309.9	169705.2	171398.8	173286.2	170886.6	171631.3	173030.1	171564.5	171123.4
4°	156117.0	154305.0	152335.9	154057.5	154546.0	153149.3	154522.4	156235.4	154199.6	154289.9
5°	136727.0	135388.4	133057.7	134120.8	132909.2	133350.4	135407.7	136113.6	134693.3	132904.9
6°	116790.3	115839.0	112925.2	114457.4	114027.0	113777.4	116374.9	114222.8	114997.6	113915.1
7°	97146.2	95368.6	93937.5	95405.2	95499.9	94748.8	98121.1	97729.4	96319.8	95992.7
8°	80487.1	78713.8	77502.2	78595.5	79309.9	78130.6	79716.7	80758.3	79656.4	79755.4
9°	64917.0	64604.9	62919.8	64348.8	65125.7	63862.4	65618.5	65995.1	64964.3	65465.7
10°	53302.3	52938.6	51593.5	52172.4	53459.4	51952.9	53638.0	53760.7	52938.6	53173.1
12.5°	32939.5	32793.1	32756.5	32840.5	32823.3	33090.1	33520.5	33029.8	32965.3	32154.0
15°	21290.4	21507.7	21283.9	21714.3	21776.7	22028.5	21766.0	21370.0	20614.6	20240.1
17.5°	13286.8	13564.4	13947.5	14578.1	15208.6	15281.8	14933.2	14468.3	14102.5	13702.2
20°	7644.1	7779.7	7721.6	8477.0	10108.2	10551.6	10101.8	9613.3	9172.1	8767.5
22.5°	4749.6	4700.1	4790.5	5044.4	5576.0	6946.9	6578.9	6090.3	5769.7	5436.1
25°	2911.7	2965.5	2931.1	3071.0	3309.9	3890.9	3974.9	3764.0	3600.4	3428.2
27.5°	1874.4	1874.4	1889.5	1967.0	2130.5	2111.2	2558.8	2395.2	2307.0	2223.1
30°	1302.0	1306.3	1306.3	1351.5	1388.1	1323.5	1439.7	1650.6	1609.7	1545.2
32.5°	966.3	979.2	989.9	1013.6	983.5	914.6	942.6	1187.9	1164.3	1140.6
35°	736.0	746.8	772.6	785.5	742.5	699.4	673.6	873.7	884.5	878.0
37.5°	535.9	542.3	589.7	639.2	589.7	550.9	535.9	671.4	723.1	716.6
40°	411.0	413.2	421.8	477.8	477.8	447.6	451.9	501.4	591.8	591.8
42.5°	352.9	352.9	361.5	352.9	355.1	387.4	398.1	404.6	501.4	501.4
45°	305.6	305.6	309.9	288.4	266.9	333.6	342.2	344.3	421.8	432.6
47.5°	256.1	256.1	264.7	236.7	226.0	264.7	288.4	294.8	363.7	372.3
50°	189.4	191.5	217.4	193.7	200.1	204.4	249.6	253.9	307.7	327.1
52.5°	127.0	127.0	131.3	150.6	174.3	167.9	202.3	217.4	245.3	271.2
55°	103.3	103.3	101.1	96.8	129.1	139.9	148.5	180.8	200.1	232.4
57.5°	71.0	75.3	68.9	79.6	83.9	105.5	111.9	142.0	152.8	195.8
60°	8.6	10.8	15.1	58.1	56.0	71.0	83.9	111.9	124.8	150.6
62.5°	2.2	2.2	4.3	10.8	38.7	47.3	66.7	77.5	90.4	116.2
65°	0.0	0.0	2.2	4.3	8.6	25.8	34.4	45.2	64.6	81.8
67.5°	0.0	0.0	2.2	4.3	4.3	10.8	17.2	28.0	34.4	60.3
70°	0.0	0.0	2.2	4.3	4.3	8.6	10.8	12.9	23.7	32.3
72.5°	0.0	0.0	2.2	4.3	6.5	8.6	10.8	10.8	10.8	21.5
75°	0.0	0.0	2.2	4.3	6.5	8.6	10.8	10.8	8.6	8.6
77.5°	0.0	0.0	2.2	4.3	8.6	10.8	12.9	10.8	6.5	6.5
80°	0.0	0.0	2.2	6.5	10.8	15.1	17.2	12.9	6.5	4.3
82.5°	0.0	0.0	4.3	8.6	12.9	17.2	23.7	19.4	8.6	4.3
85°	0.0	0.0	2.2	6.5	12.9	17.2	34.4	23.7	10.8	2.2
87.5°	0.0	0.0	0.0	2.2	2.2	4.3	12.9	8.6	4.3	2.2
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°
196270.2	0°	196270.2	196270.2	196270.2	196270.2	196270.2	196270.2	196270.2	196270.2
193123.9	1°	194473.2	194608.8	194165.5	194852.0	194611.0	193199.2	192732.2	192179.1
185469.0	2°	184900.9	185591.7	185626.1	186387.9	186377.2	184730.9	184220.8	185161.3
172018.6	3°	171497.8	172302.7	171577.5	172931.1	172524.4	170527.2	170008.6	171076.0
155004.4	4°	154541.7	154388.9	154139.3	153368.9	154317.9	152955.7	151929.1	153377.5
135276.5	5°	135005.3	134665.3	134178.9	133950.8	134656.7	133785.1	131673.9	133789.4
115873.5	6°	116015.5	114552.1	114481.1	114354.1	114425.1	111984.7	112131.0	113706.4
94867.2	7°	95870.1	96139.1	95590.3	96470.5	95799.0	94146.3	93509.2	95168.5
80190.1	8°	79630.6	79290.6	78870.9	80185.8	79021.6	77936.9	77194.5	78505.1
65547.5	9°	65424.8	64837.3	64411.2	64344.5	64525.3	62489.4	62902.6	63894.7
53302.3	10°	53321.6	52357.5	52592.1	52654.5	52456.5	51122.2	51135.1	51477.3
32692.0	12.5°	32575.8	32102.3	32220.7	32285.2	32687.7	32218.5	31555.7	31077.9
20612.5	15°	20474.7	20134.7	20829.8	21296.8	21202.1	20784.6	20472.6	20040.0
13702.2	17.5°	13575.2	14020.7	14022.8	14448.9	14492.0	14074.5	13833.5	13443.9
8911.7	20°	8879.4	9064.5	9449.7	9751.0	9925.3	9606.8	9318.4	9051.6
5556.6	22.5°	5556.6	5879.4	6120.5	6512.1	6671.4	6439.0	6234.5	6017.2
3469.1	25°	3411.0	3641.3	3841.4	4181.5	4398.8	4286.9	4099.7	3946.9
2240.3	27.5°	2274.7	2371.6	2470.6	2705.1	2931.1	2868.7	2793.4	2700.8
1579.6	30°	1603.3	1611.9	1717.3	1848.6	1999.3	2038.0	2003.6	1956.2
1160.0	32.5°	1181.5	1215.9	1265.4	1347.2	1448.3	1540.9	1523.7	1502.1
886.6	35°	912.5	964.1	1005.0	1067.4	1121.2	1209.5	1224.5	1218.1
729.5	37.5°	744.6	789.8	830.7	867.3	912.5	972.7	1020.1	1022.2
602.6	40°	617.6	658.5	712.3	740.3	772.6	817.8	875.9	880.2
510.0	42.5°	520.8	559.5	613.3	647.8	671.4	714.5	772.6	781.2
436.9	45°	447.6	471.3	527.3	568.1	591.8	619.8	682.2	690.8
376.6	47.5°	389.5	413.2	447.6	505.7	527.3	553.1	602.6	617.6
333.6	50°	342.2	365.9	396.0	447.6	479.9	501.4	542.3	563.8
290.5	52.5°	303.4	327.1	359.4	400.3	436.9	456.2	495.0	523.0
236.7	55°	253.9	294.8	318.5	355.1	404.6	421.8	451.9	488.5
206.6	57.5°	221.7	256.1	290.5	320.7	370.2	391.7	421.8	456.2
163.6	60°	187.2	219.5	260.4	286.2	333.6	361.5	393.8	426.1
124.8	62.5°	148.5	191.5	219.5	256.1	301.3	337.9	363.7	396.0
96.8	65°	109.8	157.1	189.4	228.1	271.2	309.9	331.4	365.9
68.9	67.5°	79.6	122.7	161.4	198.0	238.9	277.6	299.1	329.3
43.0	70°	62.4	90.4	133.4	165.7	208.8	241.0	264.7	284.1
28.0	72.5°	36.6	68.9	107.6	144.2	182.9	204.4	221.7	238.9
12.9	75°	23.7	53.8	88.2	120.5	148.5	167.9	182.9	198.0
6.5	77.5°	15.1	38.7	71.0	101.1	114.1	137.7	150.6	159.3
4.3	80°	8.6	30.1	62.4	81.8	92.5	107.6	120.5	131.3
4.3	82.5°	6.5	25.8	51.6	68.9	68.9	86.1	92.5	92.5
2.2	85°	4.3	21.5	40.9	64.6	51.6	64.6	60.3	60.3
2.2	87.5°	4.3	15.1	19.4	28.0	23.7	28.0	28.0	32.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
196270.2
189988.3
181177.8
166335.0
148135.0
128215.6
109139.7
90655.6
74762.6
60795.8
49148.8
30787.4
19818.3
13347.1
8959.0
5901.0
3858.6
2647.0
1923.9
1484.9
1196.5
1007.2
873.7
774.7
688.7
619.8
566.0
523.0
490.7
458.4
434.7
411.0
372.3
331.4
290.5
243.2
198.0
154.9
118.4
86.1
58.1
32.3
0.0

(END OF REPORT)