

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: P637029

Luminaire Tested: **IFLD-S-SA2C-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637029
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11821.1 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

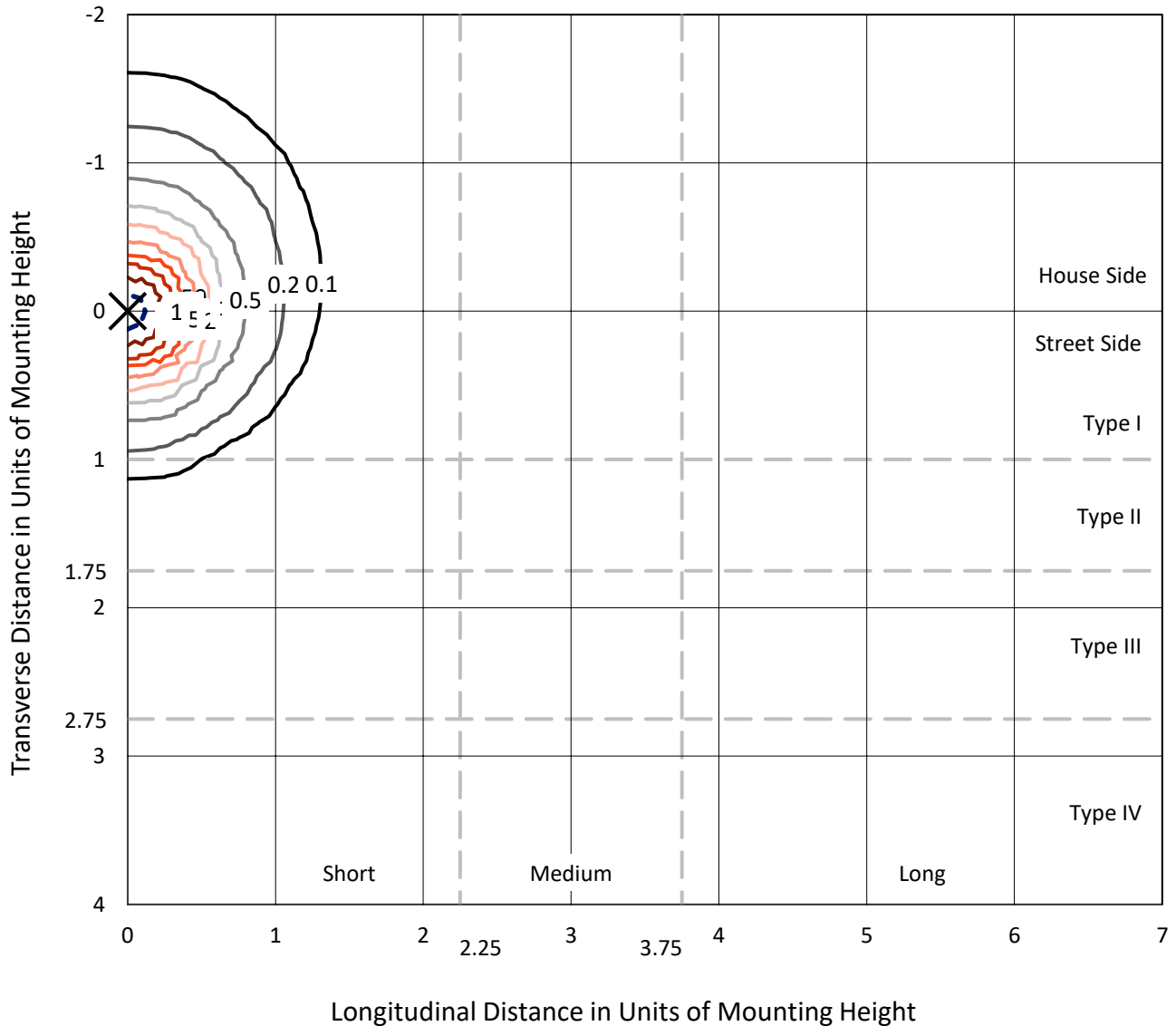
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

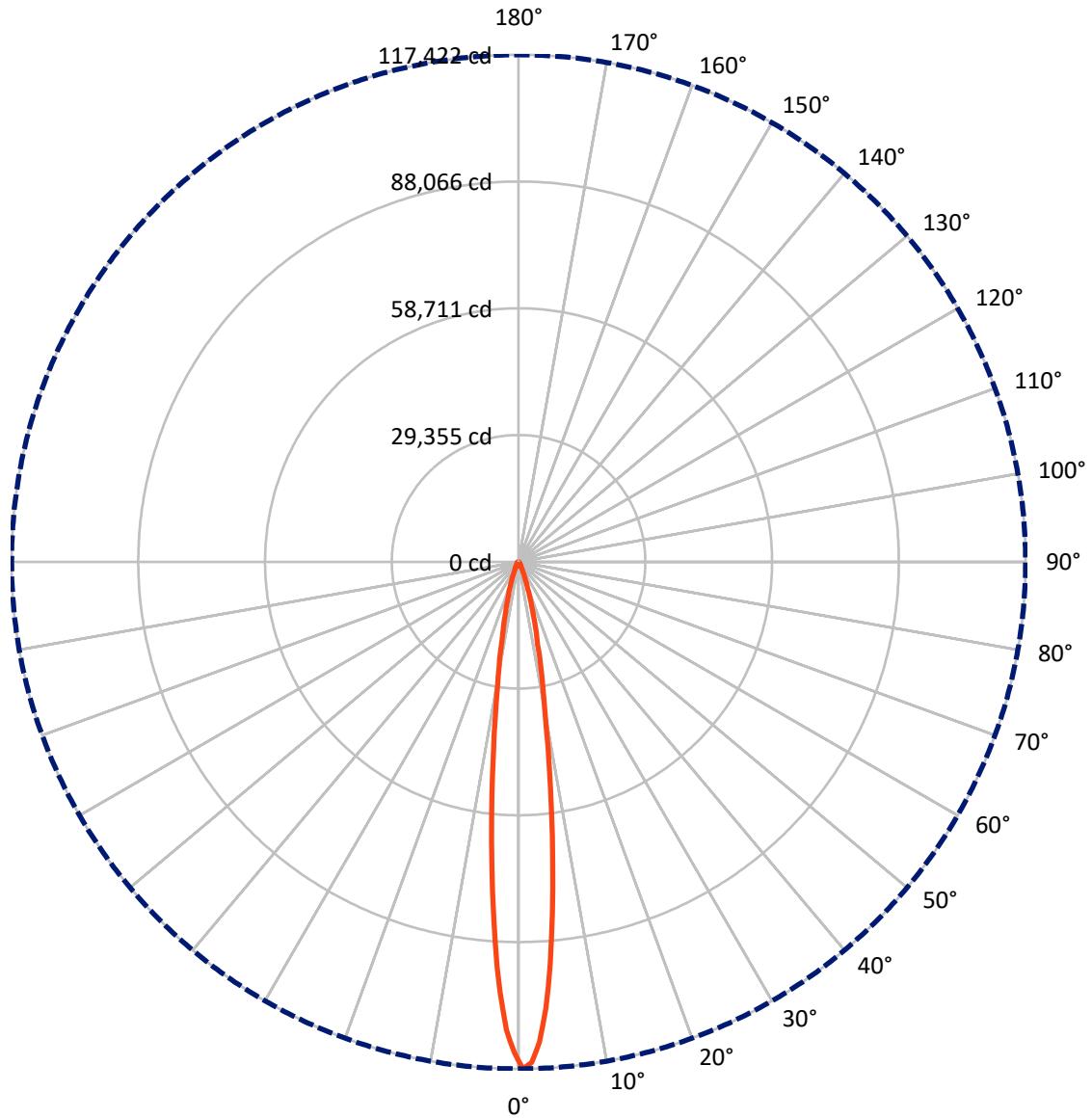
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 293.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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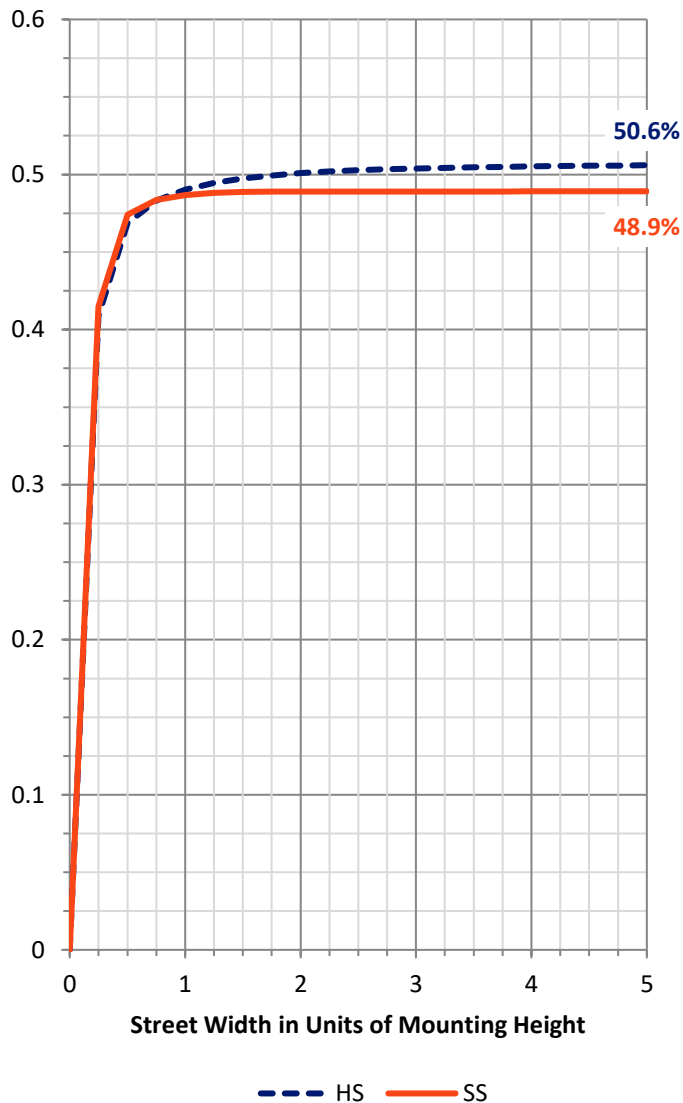
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6054.6	0.0	6054.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	5766.6	0.0	5766.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	11821.1	0.0	11821.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5967.6	50.5
10°-20°	3820.5	32.3
20°-30°	1148.4	9.7
30°-40°	373.9	3.2
40°-50°	217.6	1.8
50°-60°	144.5	1.2
60°-70°	87.0	0.7
70°-80°	44.7	0.4
80°-90°	17.0	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°	11821.1	100.0
0°-180°	11821.1	100.0

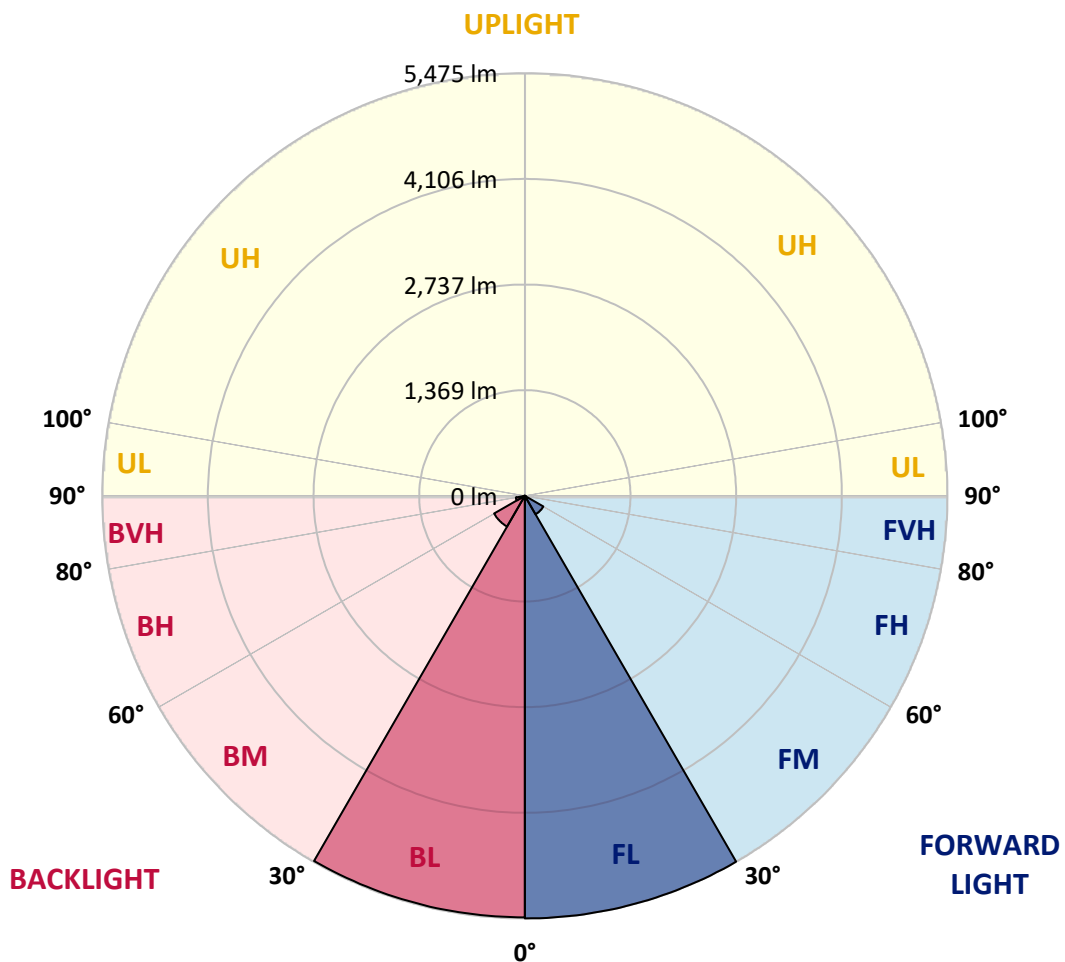


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5474.7	46.3			
FM (30°-60°)	276.3	2.3			
FH (60°-80°)	13.0	0.1			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	5461.7	46.2	B5		
BM (30°-60°)	459.7	3.9	B1/1000		
BH (60°-80°)	118.7	1.0	B1/500		G0/660
BVH (80°-90°)	14.4	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°	117421.6	117421.6	117421.6	117421.6	117421.6	117421.6	117421.6	117421.6	117421.6	117421.6
1°	116015.6	115661.6	114747.4	115397.6	115969.3	115803.2	115791.6	115729.8	115643.5	116320.8
2°	111378.0	111148.9	109797.0	110354.5	111166.9	110574.6	110945.4	110619.7	110626.1	111434.7
3°	103560.3	103685.2	101528.6	102541.9	103671.1	102235.5	102681.0	103517.8	102641.0	102377.1
4°	93399.3	92315.3	91137.2	92167.2	92459.5	91623.9	92445.3	93470.2	92252.2	92306.3
5°	81798.9	80998.1	79603.8	80239.8	79514.9	79778.9	81009.7	81432.0	80582.3	79512.3
6°	69871.5	69302.4	67559.2	68475.9	68218.4	68069.0	69623.0	68335.5	68799.0	68151.4
7°	58119.2	57055.7	56199.5	57077.6	57134.2	56684.9	58702.4	58468.1	57624.8	57429.1
8°	48152.6	47091.7	46366.9	47020.9	47448.4	46742.8	47691.7	48314.8	47655.6	47714.9
9°	38837.5	38650.8	37642.7	38497.6	38962.4	38206.7	39257.3	39482.6	38865.9	39165.8
10°	31888.9	31671.3	30866.6	31212.9	31982.9	31081.6	32089.7	32163.1	31671.3	31811.6
12.5°	19706.5	19619.0	19597.1	19647.3	19637.0	19796.7	20054.2	19760.6	19722.0	19236.6
15°	12737.3	12867.3	12733.4	12990.9	13028.2	13178.9	13021.8	12784.9	12333.0	12109.0
17.5°	7949.0	8115.1	8344.3	8721.5	9098.8	9142.6	8934.0	8655.9	8437.0	8197.5
20°	4573.2	4654.3	4619.6	5071.5	6047.4	6312.6	6043.5	5751.3	5487.3	5245.3
22.5°	2841.5	2811.9	2866.0	3017.9	3335.9	4156.1	3935.9	3643.6	3451.8	3252.2
25°	1742.0	1774.2	1753.6	1837.3	1980.2	2327.8	2378.0	2251.8	2154.0	2051.0
27.5°	1121.4	1121.4	1130.4	1176.8	1274.6	1263.0	1530.8	1433.0	1380.2	1330.0
30°	778.9	781.5	781.5	808.6	830.4	791.8	861.3	987.5	963.1	924.4
32.5°	578.1	585.8	592.3	606.4	588.4	547.2	563.9	710.7	696.5	682.4
35°	440.3	446.8	462.2	469.9	444.2	418.4	403.0	522.7	529.2	525.3
37.5°	320.6	324.5	352.8	382.4	352.8	329.6	320.6	401.7	432.6	428.7
40°	245.9	247.2	252.4	285.8	285.8	267.8	270.4	300.0	354.1	354.1
42.5°	211.2	211.2	216.3	211.2	212.4	231.8	238.2	242.1	300.0	300.0
45°	182.8	182.8	185.4	172.5	159.7	199.6	204.7	206.0	252.4	258.8
47.5°	153.2	153.2	158.4	141.6	135.2	158.4	172.5	176.4	217.6	222.7
50°	113.3	114.6	130.0	115.9	119.7	122.3	149.4	151.9	184.1	195.7
52.5°	76.0	76.0	78.5	90.1	104.3	100.4	121.0	130.0	146.8	162.2
55°	61.8	61.8	60.5	57.9	77.3	83.7	88.8	108.2	119.7	139.1
57.5°	42.5	45.1	41.2	47.6	50.2	63.1	67.0	85.0	91.4	117.2
60°	5.2	6.4	9.0	34.8	33.5	42.5	50.2	67.0	74.7	90.1
62.5°	1.3	1.3	2.6	6.4	23.2	28.3	39.9	46.4	54.1	69.5
65°	0.0	0.0	1.3	2.6	5.2	15.5	20.6	27.0	38.6	48.9
67.5°	0.0	0.0	1.3	2.6	2.6	6.4	10.3	16.7	20.6	36.1
70°	0.0	0.0	1.3	2.6	2.6	5.2	6.4	7.7	14.2	19.3
72.5°	0.0	0.0	1.3	2.6	3.9	5.2	6.4	6.4	6.4	12.9
75°	0.0	0.0	1.3	2.6	3.9	5.2	6.4	6.4	5.2	5.2
77.5°	0.0	0.0	1.3	2.6	5.2	6.4	7.7	6.4	3.9	3.9
80°	0.0	0.0	1.3	3.9	6.4	9.0	10.3	7.7	3.9	2.6
82.5°	0.0	0.0	2.6	5.2	7.7	10.3	14.2	11.6	5.2	2.6
85°	0.0	0.0	1.3	3.9	7.7	10.3	20.6	14.2	6.4	1.3
87.5°	0.0	0.0	0.0	1.3	1.3	2.6	7.7	5.2	2.6	1.3
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°
117421.6	0°	117421.6	117421.6	117421.6	117421.6	117421.6	117421.6	117421.6	117421.6
115539.3	1°	116346.5	116427.6	116162.4	116573.1	116428.9	115584.3	115304.9	114497.7
110959.6	2°	110619.7	111033.0	111053.6	111509.4	111502.9	110518.0	110212.9	110775.5
102912.7	3°	102601.1	103082.7	102648.8	103458.6	103215.3	102020.5	101710.2	102348.8
92733.7	4°	92456.9	92365.5	92216.1	91755.2	92323.0	91508.0	90893.9	91760.4
80931.2	5°	80768.9	80565.5	80274.5	80138.1	80560.4	80038.9	78775.9	80041.5
69323.0	6°	69408.0	68532.5	68490.0	68414.1	68456.5	66996.5	67084.1	68026.5
56755.7	7°	57355.7	57516.6	57188.3	57714.9	57313.2	56324.4	55943.3	56936.0
47974.9	8°	47640.2	47436.8	47185.7	47972.4	47275.8	46626.9	46182.7	46966.8
39214.8	9°	39141.4	38789.9	38535.0	38495.1	38603.2	37385.2	37632.4	38226.0
31888.9	10°	31900.5	31323.7	31464.0	31501.3	31382.9	30584.6	30592.4	30797.1
19558.5	12.5°	19488.9	19205.7	19276.5	19315.1	19555.9	19275.2	18878.7	18592.8
12331.7	15°	12249.3	12045.9	12461.7	12741.1	12684.5	12434.7	12248.0	11989.2
8197.5	17.5°	8121.6	8388.1	8389.4	8644.3	8670.0	8420.3	8276.1	8043.0
5331.6	20°	5312.2	5423.0	5653.4	5833.7	5938.0	5747.4	5574.9	5415.2
3324.3	22.5°	3324.3	3517.5	3661.7	3896.0	3991.3	3852.2	3729.9	3599.9
2075.5	25°	2040.7	2178.5	2298.2	2501.6	2631.7	2564.7	2452.7	2361.3
1340.3	27.5°	1360.9	1418.8	1478.1	1618.4	1753.6	1716.2	1671.2	1615.8
945.0	30°	959.2	964.3	1027.4	1106.0	1196.1	1219.3	1198.7	1170.3
694.0	32.5°	706.8	727.4	757.1	806.0	866.5	921.9	911.6	898.7
530.5	35°	545.9	576.8	601.3	638.6	670.8	723.6	732.6	728.7
436.5	37.5°	445.5	472.5	497.0	518.9	545.9	582.0	610.3	611.6
360.5	40°	369.5	394.0	426.2	442.9	462.2	489.3	524.0	526.6
305.1	42.5°	311.6	334.8	366.9	387.5	401.7	427.5	462.2	467.4
261.4	45°	267.8	282.0	315.4	339.9	354.1	370.8	408.1	413.3
225.3	47.5°	233.0	247.2	267.8	302.6	315.4	330.9	360.5	369.5
199.6	50°	204.7	218.9	236.9	267.8	287.1	300.0	324.5	337.3
173.8	52.5°	181.5	195.7	215.0	239.5	261.4	273.0	296.1	312.9
141.6	55°	151.9	176.4	190.6	212.4	242.1	252.4	270.4	292.3
123.6	57.5°	132.6	153.2	173.8	191.8	221.5	234.3	252.4	273.0
97.9	60°	112.0	131.3	155.8	171.2	199.6	216.3	235.6	254.9
74.7	62.5°	88.8	114.6	131.3	153.2	180.3	202.1	217.6	236.9
57.9	65°	65.7	94.0	113.3	136.5	162.2	185.4	198.3	218.9
41.2	67.5°	47.6	73.4	96.6	118.5	142.9	166.1	179.0	197.0
25.8	70°	37.3	54.1	79.8	99.1	124.9	144.2	158.4	170.0
16.7	72.5°	21.9	41.2	64.4	86.3	109.4	122.3	132.6	142.9
7.7	75°	14.2	32.2	52.8	72.1	88.8	100.4	109.4	118.5
3.9	77.5°	9.0	23.2	42.5	60.5	68.2	82.4	90.1	95.3
2.6	80°	5.2	18.0	37.3	48.9	55.4	64.4	72.1	78.5
2.6	82.5°	3.9	15.5	30.9	41.2	41.2	51.5	55.4	55.4
1.3	85°	2.6	12.9	24.5	38.6	30.9	38.6	36.1	36.1
1.3	87.5°	2.6	9.0	11.6	16.7	14.2	16.7	16.7	19.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
117421.6
113663.4
108392.3
99512.4
88624.0
76706.9
65294.4
54236.1
44727.9
36372.0
29404.0
18419.0
11856.6
7985.1
5359.9
3530.3
2308.5
1583.6
1151.0
888.4
715.9
602.6
522.7
463.5
412.0
370.8
338.6
312.9
293.6
274.2
260.1
245.9
222.7
198.3
173.8
145.5
118.5
92.7
70.8
51.5
34.8
19.3
0.0

(END OF REPORT)